

MEMORANDUM

DATE: October 22, 2018

TO: Ben Small, Central Valley School District

FROM: John Haney, PE, Hart Crowser

RE: **Focused Phase II Environmental Site Assessment; North Henry Road and East Sprague Avenue, Greenacres, Washington**
150014001/Task 01

CC: Jay Rowell, Central Valley School District; Jeff Jurgensen and Jonathan Miller, OAC Services, Inc.

Introduction

This memorandum summarizes the results and services conducted as part of a focused Phase II Environmental Site Assessment (ESA) at the property located near the intersection of North Henry Road and Sprague Avenue in Greenacres, Washington (herein referenced as “subject property”). The subject property is comprised of Spokane County tax parcels 55174.9009, .9011, .9014, and the eastern portion of 55174.9007. Phase II ESA activities for this project focused on assessing shallow soil (between ground surface and about 1.5 feet below ground surface [bgs]) along the boundary line that separates tax parcels 55174.9009, .9011, .9014, and .9022 as depicted in “Site Plan,” Attachment 1.

Currently, the subject property is owned by the Spokane Gun Club which also owns and operates a trap/skeet firing range on the adjacent property to the west. Based on current site uses, likely contaminants of concern (COC) include lead (from shot originating at the adjacent trap/skeet firing range) and polycyclic aromatic hydrocarbons (PAHs) which commonly are found in the coal/petroleum binders used in the manufacture of clay pigeon targets. Our assessment activities consisted of excavating 23 test pits to depths of approximately 1.5 feet bgs along the tax parcel boundaries shown in Attachment 1 to observe subsurface conditions and collect soil samples for chemical analysis.

Field Activities

Hart Crowser mobilized to the subject property on July 30, 2018 and marked the test pit locations with stakes. After the test pit locations were staked, we requested an underground utility locate from the Inland Empire Utility Coordinating Council. Prior to excavating the test pits, we also reviewed draft



geotechnical boring and test pit logs provided by Budinger & Associates for explorations they completed between July 16 and 20, 2018.

We mobilized to the site on August 2, 2018 and excavated 23 test pits using a Bobcat 323 mini excavator. Materials removed from each excavation were stockpiled next to each test pit and used as backfill at the end of assessment activities. The test pits were excavated at the approximate locations shown on Attachment 1 to depths between ground surface and approximately 1.5 feet bgs.

We logged the materials encountered on test pit logs, making note of any observed lead shot or clay pigeon debris, and collected soil samples from approximately 6 inches and 12 inches bgs in each test pit. Soil encountered generally was consistent and was composed of silty gravel with sand, scattered cobbles, and trace amounts of clay. The soil encountered was dry and generally brown-gray to brown. No lead shot was observed at the surface of the test pit locations or in excavated soil; however, clay pigeon debris was observed in three test pits: TP-17, TP-18, and TP-19.

Soil samples were collected using decontaminated stainless-steel trowels from in-place soil on the sidewalls of each test pit and placed directly into laboratory-supplied containers. Each sample was logged on a chain of custody form and placed in a cooler with ice following collection.

After each of the test pits was logged and sampled, we used the mini-excavator to backfill and compact the excavations using stockpiled soil. Copies of the test pit logs and chain of custody forms are provided in "Field Documentation," Attachment 2.

Chemical Analyses and Analytical Results

We transported the soil samples to TestAmerica's Spokane Valley laboratory for analysis. Each of the samples collected from 6 inches bgs in the test pits was submitted for analysis of total lead, using US Environmental Protection Agency (EPA) Method 1610. Additionally, the samples collected from 6 inches bgs in the test pits that contained clay pigeon debris (TP-17, TP-18, and TP-19) were analyzed for PAHs using EPA Method 8270. The remaining soil samples collected from 12 inches bgs in each test pit were held by the laboratory pending results of the first round of analyses. Chemical analytical results are summarized in "Chemical Analytical Results," Attachment 3. The original laboratory reports also are provided in Attachment 3.

Lead was detected in each of the 23 samples submitted for analysis. Concentrations of lead detected in test pits TP-12, TP-17, TP-18, and TP-19 exceeded Ecology's Model Toxics Control Act (MTCA) cleanup level for unrestricted land use of 250 milligrams per kilogram (mg/kg). Lead concentrations in the remaining test pit samples were less than the applicable MTCA cleanup level.



Several PAHs, including carcinogenic PAHs (cPAHs), were detected in each of the samples analyzed. Detections of cPAHs in these samples, specifically benzo(a)pyrene and the PAH toxic equivalency (TEQ), are greater than the applicable MTCA cleanup levels.

Based on the initial chemical analytical results, the following samples were analyzed to better assess the extent of contamination:

- Samples collected from 12 inches bgs in test pit TP-12, TP-17, TP-18, and TP-19 were submitted for analysis of total lead;
- Samples collected from 6 inches bgs in test pits TP-6, TP-12, TP-14, TP-15, TP-16, TP-20, and TP-21 and samples collected from 12 inches bgs in test pits TP-17, TP-18, and TP-19 were submitted for analysis of PAHs using the method listed above;
- Samples collected from 6 inches bgs in test pits TP-12 and TP-15 through TP-20 were analyzed for the remaining Resource Conservation and Recovery Act (RCRA) eight metals (arsenic, barium, cadmium, chromium, lead, mercury, selenium, and silver) by EPA Methods 6010C and 7471B.

Lead was detected in each of the samples submitted from 12 inches bgs; however, only the concentration of lead detected in test pit TP-19 exceeded the MTCA cleanup level for unrestricted land use. Lead concentrations in the remaining samples analyzed from 12 inches bgs were less than the applicable MTCA cleanup level.

Several PAHs, including cPAHs, were detected in the additional samples analyzed from the 6-inch and 12-inch bgs samples. However, concentrations of benzo(a)pyrene and calculated PAH TEQs only exceeded MTCA cleanup levels in sample TP-20 from 6 inches bgs and samples TP-18 and TP-19 from 12 inches bgs.

Cadmium, mercury, selenium and silver were not detected above method reporting limits in the samples analyzed. Arsenic, barium and chromium were detected in each of the samples analyzed; however, only the concentration of arsenic detected in the sample collected from test pit TP-19 at 6 inches bgs was greater than the MTCA cleanup level.

Findings

Total lead and cPAH concentrations in soil samples collected from 6 inches bgs in test pits TP-17, TP-18, and TP-19 and from 12 inches bgs in test pit TP-19 were greater than MTCA cleanup levels for unrestricted land use. Additionally, the total lead concentration in the soil sample collected from 6 inches bgs in test pit TP-12 and arsenic, PAH, and calculated PAH TEQ concentrations in the soil sample collected from 12 inches bgs in test pit TP-20 were greater than the MTCA cleanup levels for unrestricted land use.



Detected lead concentrations in 10 samples (nine collected from 6 inches bgs and one collected from 12 inches bgs) were greater than 20 times the State Dangerous Waste characteristic criteria of 5 milligrams per liter (mg/L). By exceeding that criteria, the material could theoretically be designated as a Dangerous Waste. If designated as a Dangerous Waste, cleanup of this material will be more complicated: remediation will require more stringent dust control during excavation, more stringent health and safety standards during handling, increased documentation of handling and disposal, more stringent storage requirements during handling, specially trained truck drivers, etcetera. These increased requirements equate to more expensive cleanup of the contamination. Based on planned site use, the cleanup option likely would be limited to off-site disposal at an RCRA Subtitle C landfill.

Results of this focused Phase II ESA indicate that, at least a portion of the site, is impacted by metals and PAHs. However, our findings are limited to a small set of sample locations (primarily in the north-south direction) and an assessment of the extent of contamination will require additional assessment.

Attachments:

Attachment 1 – Site Plan




Attachment 2 – Field Documentation

Attachment 3 – Chemical Analytical Results

ATTACHMENT 1
Site Plan



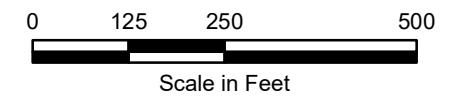
Legend

-  Test Pit
-  Test Pit with Contaminant Concentration(s) that Exceeds MTCA Cleanup Level
-  Parcel Boundary

Chemical Analytical Results - Soil Total Lead and PAHs

| Sample ID | Sampling Date | Sample Depth inches bgs | Lead mg/kg | Benzo[a]pyrene µg/kg | cPAH TEQ µg/kg |
|------------------------------------|---------------|-------------------------|------------|----------------------|----------------|
| TP-1-6 | 8/2/2018 | 6 | 25 | -- | -- |
| TP-2-6 | 8/2/2018 | 6 | 27 | -- | -- |
| TP-3-6 | 8/2/2018 | 6 | 26 | -- | -- |
| TP-4-6 | 8/2/2018 | 6 | 23 | -- | -- |
| TP-5-6 | 8/2/2018 | 6 | 26 | -- | -- |
| TP-6-6 | 8/2/2018 | 6 | 41 | -- | -- |
| TP-7-6 | 8/2/2018 | 6 | 44 | -- | -- |
| TP-8-6 | 8/2/2018 | 6 | 73 | -- | -- |
| TP-9-6 | 8/2/2018 | 6 | 75 | -- | -- |
| TP-10-6 | 8/2/2018 | 6 | 140 | -- | -- |
| TP-11-6 | 8/2/2018 | 6 | 72 | -- | -- |
| TP-12-6 | 8/2/2018 | 6 | 560 | -- | -- |
| TP-12-12 | 8/2/2018 | 12 | 13 | -- | -- |
| TP-13-6 | 8/2/2018 | 6 | 110 | -- | -- |
| TP-14-6 | 8/2/2018 | 6 | 200 | 28 | 37 |
| TP-15-6 | 8/2/2018 | 6 | 100 | 14 | 17 |
| TP-16-6 | 8/2/2018 | 6 | 41 | 29 | 38 |
| TP-17-6 | 8/2/2018 | 6 | 470 | 1200 | 1561 |
| TP-17-12 | 8/2/2018 | 12 | 200 | 62 | 82 |
| TP-18-6 | 8/2/2018 | 6 | 620 | 4600 | 6040 |
| TP-18-12 | 8/2/2018 | 12 | 36 | 630 | 820 |
| TP-19-6 | 8/2/2018 | 6 | 1720 | 7000 | 9225 |
| TP-19-12 | 8/2/2018 | 12 | 430 | 2300 | 2896 |
| TP-20-6 | 8/2/2018 | 6 | 110 | 210 | 272 |
| TP-21-6 | 8/2/2018 | 6 | 27 | 36 | 47 |
| TP-22-6 | 8/2/2018 | 6 | 33 | -- | -- |
| TP-23-6 | 8/2/2018 | 6 | 37 | -- | -- |
| MTCA Method A Cleanup Level | | | 250 | 100 | 100 |
| Unrestricted Land Use | | | | | |

bgs = below ground surface
 -- = sample not analyzed



Focused Phase II ESA
 North Henry Road and East Sprague Avenue
 Greenacres, Washington

Site Plan

150-014-001

9/18



Attachment

ATTACHMENT 2
Field Documentation

Sample Description

Identification of soils in this report is based on visual field and laboratory observations which include density/consistency, moisture condition, grain size, and plasticity estimates and should not be construed to imply field nor laboratory testing unless presented herein. ASTM D 2488 visual-manual identification methods were used as a guide. Where laboratory testing confirmed visual-manual identifications, then ASTM D 2487 was used to classify the soils.

Relative Density/Consistency

Soil density/consistency in borings is related primarily to the standard penetration resistance (N). Soil density/consistency in test pits and probes is estimated based on visual observation and is presented parenthetically on the logs.

| SAND or GRAVEL Relative Density | N (Blows/Foot) | SILT or CLAY Consistency | N (Blows/Foot) |
|------------------------------------|-------------------|-----------------------------|-------------------|
| Very loose | 0 to 4 | Very soft | 0 to 1 |
| Loose | 5 to 10 | Soft | 2 to 4 |
| Medium dense | 11 to 30 | Medium stiff | 5 to 8 |
| Dense | 31 to 50 | Stiff | 9 to 15 |
| Very dense | >50 | Very stiff | 16 to 30 |
| | | Hard | >30 |

Moisture

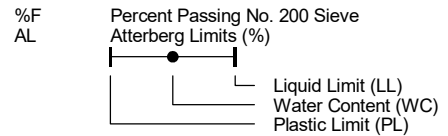
| | |
|-------|---|
| Dry | Absence of moisture, dusty, dry to the touch |
| Moist | Damp but no visible water |
| Wet | Visible free water, usually soil is below water table |

Minor Constituents

Estimated Percentage

| | |
|--------------------------|---------|
| Sand, Gravel | |
| Trace | <5 |
| Few | 5 - 15 |
| Cobbles, Boulders | |
| Trace | <5 |
| Few | 5 - 10 |
| Little | 15 - 25 |
| Some | 30 - 45 |

Soil Test Symbols



| | |
|--------|---|
| CA | Chemical Analysis |
| CAUC | Consolidated Anisotropic Undrained Compression |
| CAUE | Consolidated Anisotropic Undrained Extension |
| CBR | California Bearing Ratio |
| CIDC | Consolidated Drained Isotropic Triaxial Compression |
| CIUC | Consolidated Isotropic Undrained Compression |
| CK0DC | Consolidated k0 Undrained Triaxial Compression |
| CK0DSS | Consolidated k0 Undrained Direct Simple Shear |
| CK0UC | Consolidated k0 Undrained Compression |
| CK0UE | Consolidated k0 Undrained Extension |
| CRSCN | Constant Rate of Strain Consolidation |
| DSS | Direct Simple Shear |
| DT | In Situ Density |
| GS | Grain Size Classification |
| HYD | Hydrometer |
| ILCN | Incremental Load Consolidation |
| K0CN | k0 Consolidation |
| kc | Constant Head Permeability |
| kf | Falling Head Permeability |
| MD | Moisture Density Relationship |
| OC | Organic Content |
| OT | Tests by Others |
| P | Pressuremeter |
| PID | Photoionization Detector Reading |
| PP | Pocket Penetrometer |
| SG | Specific Gravity |
| TRS | Torsional Ring Shear |
| TV | Torvane |
| UC | Unconfined Compression |
| UUC | Unconsolidated Undrained Triaxial Compression |
| VS | Vane Shear |
| WC | Water Content (%) |

USCS Soil Classification Chart (ASTM D 2487)

| Major Divisions | | Symbols | | Typical Descriptions |
|---|---|---|---|--|
| | | Graph | USCS | |
| Coarse Grained Soils More than 50% of Material Retained on No. 200 Sieve | Gravel and Gravelly Soils More than 50% of Coarse Fraction Retained on No. 4 Sieve | | GW | Well-Graded Gravel; Well-Graded Gravel with Sand |
| | | | GP | Poorly Graded Gravel; Poorly Graded Gravel with Sand |
| | | | GW-GM | Well-Graded Gravel with Silt; Well-Graded Gravel with Silt and Sand |
| | | | GW-GC | Well-Graded Gravel with Clay; Well-Graded Gravel with Clay and Sand |
| | | | GP-GM | Poorly Graded Gravel with Silt; Poorly Graded Gravel with Silt and Sand |
| | | | GP-GC | Poorly Graded Gravel with Clay; Poorly Graded Gravel with Clay and Sand |
| | Sand and Sandy Soils More than 50% of Coarse Fraction Passing No. 4 Sieve | | GM | Silty Gravel; Silty Gravel with Sand |
| | | | GC | Clayey Gravel; Clayey Gravel with Sand |
| | | | SW | Well-Graded Sand; Well-Graded Sand with Gravel |
| | | | SP | Poorly Graded Sand; Poorly Graded Sand with Gravel |
| Silty Sand and Clayey Sand | | SW-SM | Well-Graded Sand with Silt; Well-Graded Sand with Silt and Gravel | |
| | | SW-SC | Well-Graded Sand with Clay; Well-Graded Sand with Clay and Gravel | |
| | | SP-SM | Poorly Graded Sand with Silt; Poorly Graded Sand with Silt and Gravel | |
| | | SP-SC | Poorly Graded Sand with Clay; Poorly Graded Sand with Clay and Gravel | |
| Fine Grained Soils More than 50% of Material Passing No. 200 Sieve | Silt | SM | Silty Sand; Silty Sand with Gravel | |
| | | SC | Clayey Sand; Clayey Sand with Gravel | |
| | Silty Clay (based on Atterberg Limits) | ML | Silt; Silt with Sand or Gravel; Sandy or Gravelly Silt | |
| | | MH | Elastic Silt; Elastic Silt with Sand or Gravel; Sandy or Gravelly Elastic Silt | |
| | Clays | CL-ML | Silty Clay; Silty Clay with Sand or Gravel; Gravelly or Sandy Silty Clay | |
| | | CL | Lean Clay; Lean Clay with Sand or Gravel; Sandy or Gravelly Lean Clay | |
| Organics | CH | Fat Clay; Fat Clay with Sand or Gravel; Sandy or Gravelly Fat Clay | | |
| | OL/OH | Organic Soil; Organic Soil with Sand or Gravel; Sandy or Gravelly Organic Soil | | |
| Highly Organic (>50% organic material) | PT | Peat - Decomposing Vegetation - Fibrous to Amorphous Texture | | |

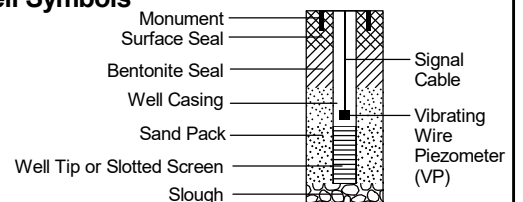
Groundwater Indicators

| | |
|--|--|
| | Groundwater Level on Date or At Time of Drilling (ATD) |
| | Groundwater Level on Date Measured in Piezometer |
| | Groundwater Seepage (Test Pits) |

Sample Symbols

| | | |
|--|--|--|
| | | |
| | | |
| | | |

Well Symbols



KEY TO EXP LOGS (SOIL ONLY) - F:\GINT\HC_LIBRARY_GLB - 8/13/18 16:39 - I:\PDXSRV\DATA\NOTEBOOKS\150014001 - CVSD_PHASE_II_ESA\FIELD DATA\PERM_GINT\150014001 - TP.GPJ - melissaschweitzer

Date Started: 8/2/18 Date Completed: 8/2/18 Contractor/Crew: _____
 Logged by: W. McDonald Checked by: J. Haney Rig Model/Type: Bobcat 323 / Mini Excavator
 Location: Lat: 47.662487 Long: -117.137576 Total Depth: 1.5 feet Depth to Seepage: Not Encountered
 Ground Surface Elevation: 2044 feet Comments: _____
 Horizontal Datum: WGS 84 _____
 Vertical Datum: _____

| Elevation (feet) | Sample Data | | | Graphic Log | Material Description | Depth (feet) |
|------------------|--------------|------|-----------------|-------------|---|--------------|
| | Depth (feet) | Type | Length (inches) | | | |
| 0 | 0 | | | | Organics. | 0 |
| | | | | | SILTY GRAVEL WITH SAND (GM), trace clay, trace cobbles, (medium dense), dry, dark brown-gray. | |
| 2043 | 6 | | | | | 1 |
| | | | S-1 | | | |
| 2043 | 6 | | | | | 1 |
| | | | S-2 | | | |
| | | | | | Bottom of Test Pit at 1.5 feet. | |
| 2042 | | | | | | 2 |
| 2041 | | | | | | 3 |
| 2040 | | | | | | 4 |

General Notes:
 1. Refer to Figure A-1 for explanation of descriptions and symbols.
 2. Material descriptions and stratum lines are interpretive and actual changes may be gradual. Solid stratum lines indicate distinct contact between material strata or geologic units. Dashed stratum lines indicate gradual or approximate change between material strata or geologic units.
 3. USCS designations are based on visual-manual identification (ASTM D 2488) unless otherwise supported by laboratory testing (ASTM D 2487).
 4. Groundwater level, if indicated, is at time of drilling/excavation (ATD) or for date specified. Level may vary with time.

HC TEST PIT - F:\GINT\HC LIBRARY.GLB - 8/20/18 09:50 - F:\NOTEBOOKS\150014001_CVSD_PHASE I AND II_ESAS\FIELD DATA\PERM_GINT\150014001-TP_GPJ - melissaschweitzer

Date Started: 8/2/18 Date Completed: 8/2/18
 Logged by: W. McDonald Checked by: J. Haney
 Location: Lat: 47.662213 Long: -117.137572
 Ground Surface Elevation: 2042 feet
 Horizontal Datum: WGS 84
 Vertical Datum: _____

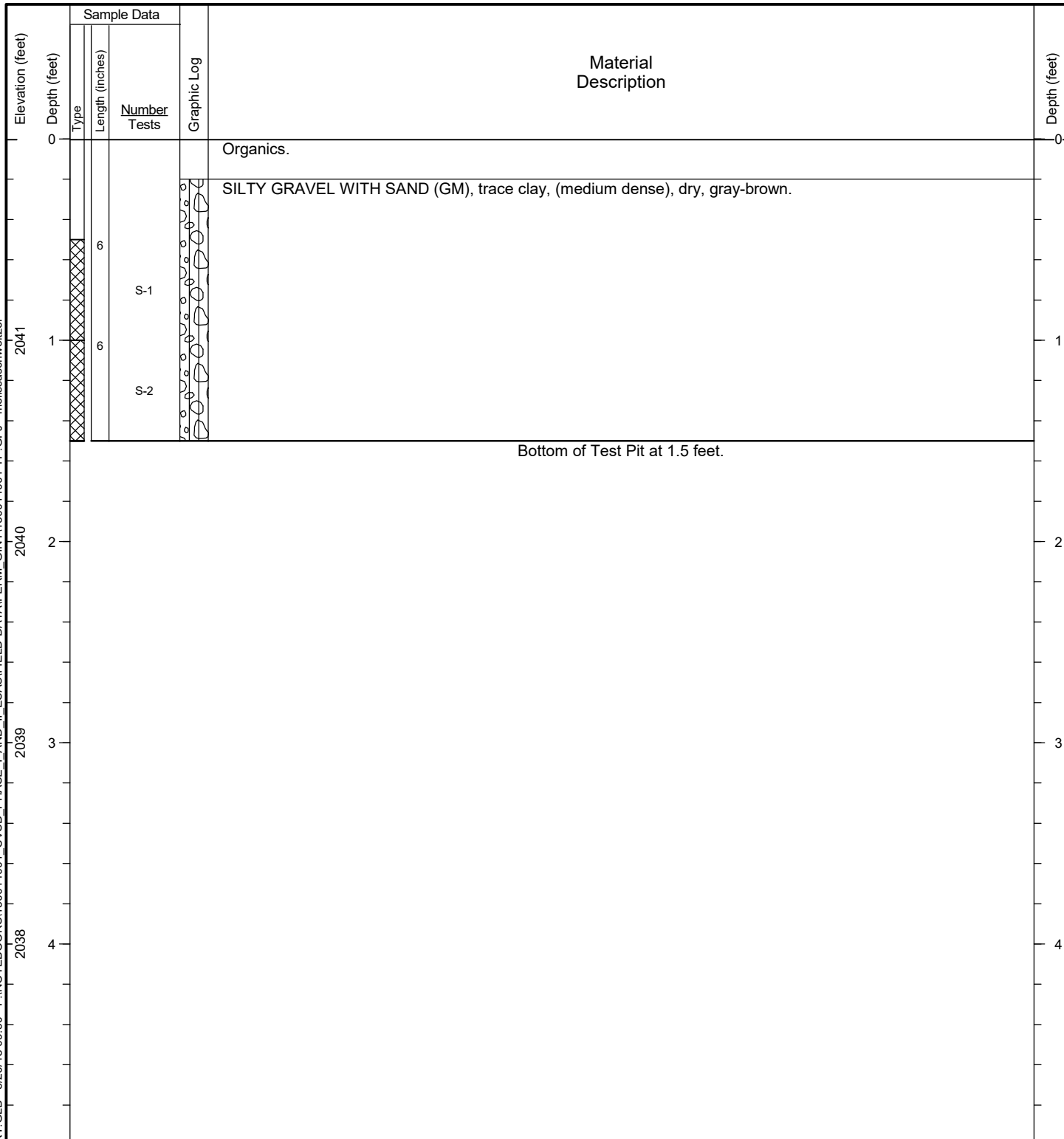
Contractor/Crew: _____
 Rig Model/Type: Bobcat 323 / Mini Excavator
 Total Depth: 1.5 feet Depth to Seepage: Not Encountered
 Comments: _____

| Elevation (feet) | Sample Data | | | Graphic Log | Material Description | Depth (feet) |
|------------------|--------------|------|-----------------|-------------|---|--------------|
| | Depth (feet) | Type | Length (inches) | | | |
| 2041 | 0 | | | | Organics. | 0 |
| | | | | | SILTY GRAVEL WITH SAND (GM), trace clay, trace cobbles, (medium dense), dry, dark brown-gray. | |
| | 6 | | | | Grades to light brown. | |
| | | | | S-1 | | |
| | 1 | | | | | 1 |
| | | | | S-2 | | |
| | | | | | | |
| | | | | | Bottom of Test Pit at 1.5 feet. | |
| 2040 | 2 | | | | | 2 |
| | | | | | | |
| 2039 | 3 | | | | | 3 |
| | | | | | | |
| 2038 | 4 | | | | | 4 |
| | | | | | | |

HC TEST PIT - F:\GINT\HC LIBRARY.GLB - 8/20/18.09:50 - F:\NOTEBOOKS\150014001_CVSD_PHASE_I_AND_II_ESAS\FIELD DATA\PERM_GINT\150014001-TP_GPJ - melissaschweitzer

General Notes:
 1. Refer to Figure A-1 for explanation of descriptions and symbols.
 2. Material descriptions and stratum lines are interpretive and actual changes may be gradual. Solid stratum lines indicate distinct contact between material strata or geologic units. Dashed stratum lines indicate gradual or approximate change between material strata or geologic units.
 3. USCS designations are based on visual-manual identification (ASTM D 2488) unless otherwise supported by laboratory testing (ASTM D 2487).
 4. Groundwater level, if indicated, is at time of drilling/excavation (ATD) or for date specified. Level may vary with time.

Date Started: 8/2/18 Date Completed: 8/2/18 Contractor/Crew: _____
 Logged by: W. McDonald Checked by: J. Haney Rig Model/Type: Bobcat 323 / Mini Excavator
 Location: Lat: 47.661939 Long: -117.137567 Total Depth: 1.5 feet Depth to Seepage: Not Encountered
 Ground Surface Elevation: 2042 feet Comments: _____
 Horizontal Datum: WGS 84 _____
 Vertical Datum: _____



General Notes:
 1. Refer to Figure A-1 for explanation of descriptions and symbols.
 2. Material descriptions and stratum lines are interpretive and actual changes may be gradual. Solid stratum lines indicate distinct contact between material strata or geologic units. Dashed stratum lines indicate gradual or approximate change between material strata or geologic units.
 3. USCS designations are based on visual-manual identification (ASTM D 2488) unless otherwise supported by laboratory testing (ASTM D 2487).
 4. Groundwater level, if indicated, is at time of drilling/excavation (ATD) or for date specified. Level may vary with time.

HC TEST PIT - F:\GINT\HC LIBRARY.GLB - 8/20/18.09:50 - F:\NOTEBOOKS\150014001_CVSD_PHASE_I_AND_II_ESAS\FIELD DATA\PERM_GINT\150014001-TP_GPJ - melissaschweitzer

Date Started: 8/2/18 Date Completed: 8/2/18
 Logged by: W. McDonald Checked by: J. Haney
 Location: Lat: 47.661665 Long: -117.137562
 Ground Surface Elevation: 2046 feet
 Horizontal Datum: WGS 84
 Vertical Datum: _____

Contractor/Crew: _____
 Rig Model/Type: Bobcat 323 / Mini Excavator
 Total Depth: 1.5 feet Depth to Seepage: Not Encountered
 Comments: _____

HC TEST PIT - F:\GINT\HC LIBRARY\GLB - 8/20/18.09:50 - F:\NOTEBOOKS\150014001_CVSD_PHASE I AND II_ESAS\FIELD DATA\PERM_GINT\150014001-TP_GPJ - melissaschweitzer

| Elevation (feet) | Sample Data | | | Graphic Log | Material Description | Depth (feet) |
|------------------|--------------|------|-----------------|---------------------------------|---|--------------|
| | Depth (feet) | Type | Length (inches) | | | |
| 0 | 0 | | | | Organics. | 0 |
| | | | | | SILTY GRAVEL WITH SAND (GM), trace clay, trace cobbles, (medium dense), dry, dark brown-gray. | |
| | 6 | | | | Grades to light brown. | |
| | | | | S-1 | | |
| 2045 | 1 | | 6 | | | 1 |
| | | | | S-2 | | |
| | | | | Bottom of Test Pit at 1.5 feet. | | |
| 2044 | 2 | | | | | 2 |
| | | | | | | |
| 2043 | 3 | | | | | 3 |
| | | | | | | |
| 2042 | 4 | | | | | 4 |

General Notes:
 1. Refer to Figure A-1 for explanation of descriptions and symbols.
 2. Material descriptions and stratum lines are interpretive and actual changes may be gradual. Solid stratum lines indicate distinct contact between material strata or geologic units. Dashed stratum lines indicate gradual or approximate change between material strata or geologic units.
 3. USCS designations are based on visual-manual identification (ASTM D 2488) unless otherwise supported by laboratory testing (ASTM D 2487).
 4. Groundwater level, if indicated, is at time of drilling/excavation (ATD) or for date specified. Level may vary with time.

Date Started: 8/2/18 Date Completed: 8/2/18
 Logged by: W. McDonald Checked by: J. Haney
 Location: Lat: 47.661390 Long: -117.137557
 Ground Surface Elevation: 2046 feet
 Horizontal Datum: WGS 84
 Vertical Datum: _____

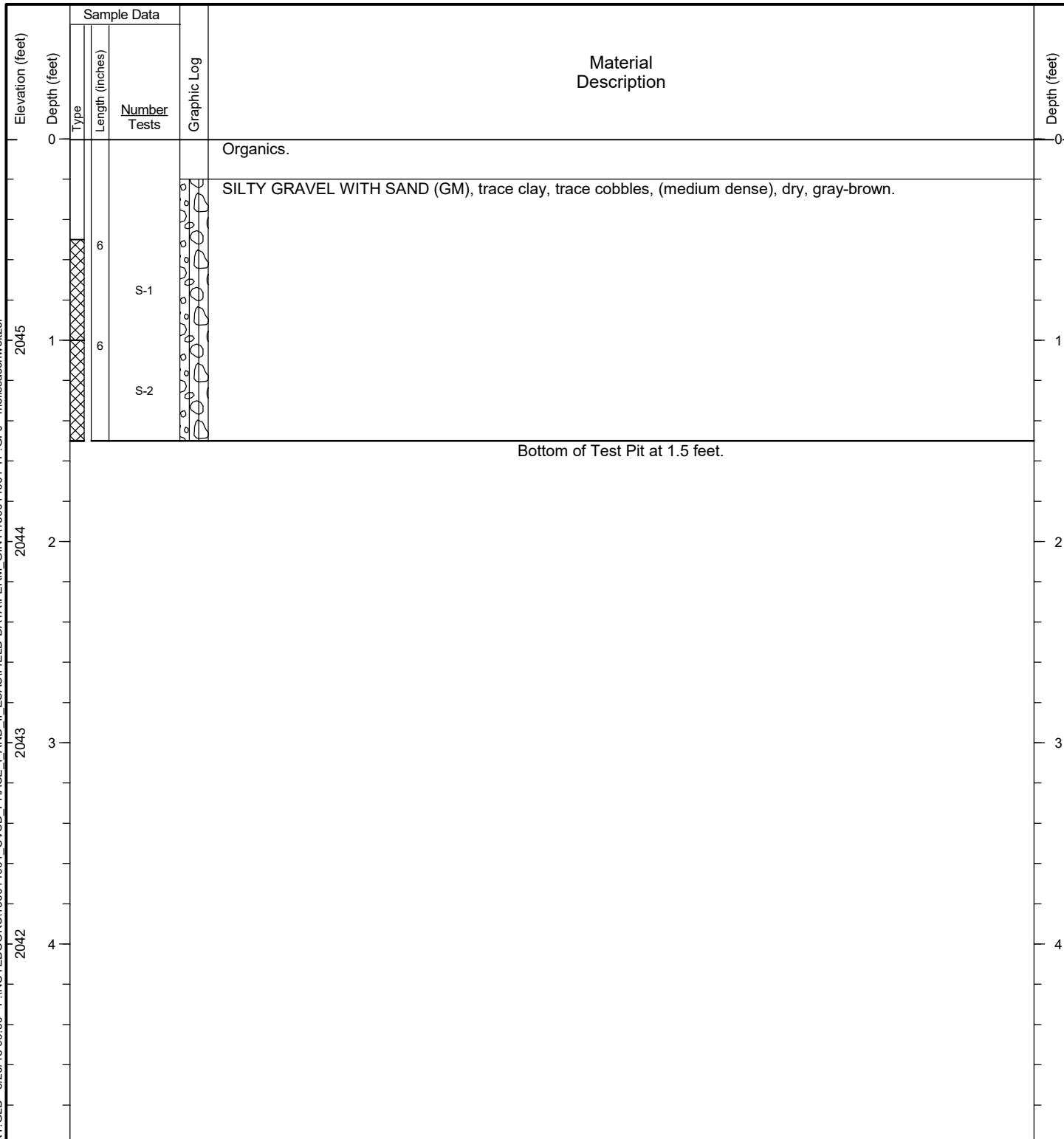
Contractor/Crew: _____
 Rig Model/Type: Bobcat 323 / Mini Excavator
 Total Depth: 1.5 feet Depth to Seepage: Not Encountered
 Comments: _____

HC TEST PIT - F:\GINT\HC LIBRARY.GLB - 8/20/18.09:50 - F:\NOTEBOOKS\150014001_CVSD_PHASE I AND II_ESAS\FIELD DATA\PERM_GINT\150014001-TP_GPJ - melissaschweitzer

| Elevation (feet) | Sample Data | | | Graphic Log | Material Description | Depth (feet) |
|------------------|--------------|------|-----------------|-------------|---|--------------|
| | Depth (feet) | Type | Length (inches) | | | |
| 0 | 0 | | | | Organics. | 0 |
| | | | | | SILTY GRAVEL WITH SAND (GM), trace clay, trace cobbles, (medium dense), dry, dark brown-gray. | |
| | 6 | | | | Grades to light brown. | |
| | | | | S-1 | | |
| 2045 | 1 | | 6 | | | 1 |
| | | | | S-2 | | |
| | | | | | Bottom of Test Pit at 1.5 feet. | |
| 2044 | 2 | | | | | 2 |
| | | | | | | |
| 2043 | 3 | | | | | 3 |
| | | | | | | |
| 2042 | 4 | | | | | 4 |

General Notes:
 1. Refer to Figure A-1 for explanation of descriptions and symbols.
 2. Material descriptions and stratum lines are interpretive and actual changes may be gradual. Solid stratum lines indicate distinct contact between material strata or geologic units. Dashed stratum lines indicate gradual or approximate change between material strata or geologic units.
 3. USCS designations are based on visual-manual identification (ASTM D 2488) unless otherwise supported by laboratory testing (ASTM D 2487).
 4. Groundwater level, if indicated, is at time of drilling/excavation (ATD) or for date specified. Level may vary with time.

Date Started: 8/2/18 Date Completed: 8/2/18 Contractor/Crew: _____
 Logged by: W. McDonald Checked by: J. Haney Rig Model/Type: Bobcat 323 / Mini Excavator
 Location: Lat: 47.661116 Long: -117.137552 Total Depth: 1.5 feet Depth to Seepage: Not Encountered
 Ground Surface Elevation: 2046 feet Comments: _____
 Horizontal Datum: WGS 84 _____
 Vertical Datum: _____



HC TEST PIT - F:\GINT\HC LIBRARY.GLB - 8/20/18.09:50 - F:\NOTEBOOKS\150014001_CVSD_PHASE I AND II_ESAS\FIELD DATA\PERM_GINT\150014001-TP_GPJ - melissaschweitzer

General Notes:
 1. Refer to Figure A-1 for explanation of descriptions and symbols.
 2. Material descriptions and stratum lines are interpretive and actual changes may be gradual. Solid stratum lines indicate distinct contact between material strata or geologic units. Dashed stratum lines indicate gradual or approximate change between material strata or geologic units.
 3. USCS designations are based on visual-manual identification (ASTM D 2488) unless otherwise supported by laboratory testing (ASTM D 2487).
 4. Groundwater level, if indicated, is at time of drilling/excavation (ATD) or for date specified. Level may vary with time.

Date Started: 8/2/18 Date Completed: 8/2/18 Contractor/Crew: _____
 Logged by: W. McDonald Checked by: J. Haney Rig Model/Type: Bobcat 323 / Mini Excavator
 Location: Lat: 47.660842 Long: -117.137548 Total Depth: 1.5 feet Depth to Seepage: Not Encountered
 Ground Surface Elevation: 2046 feet Comments: _____
 Horizontal Datum: WGS 84 _____
 Vertical Datum: NAVD 88 _____

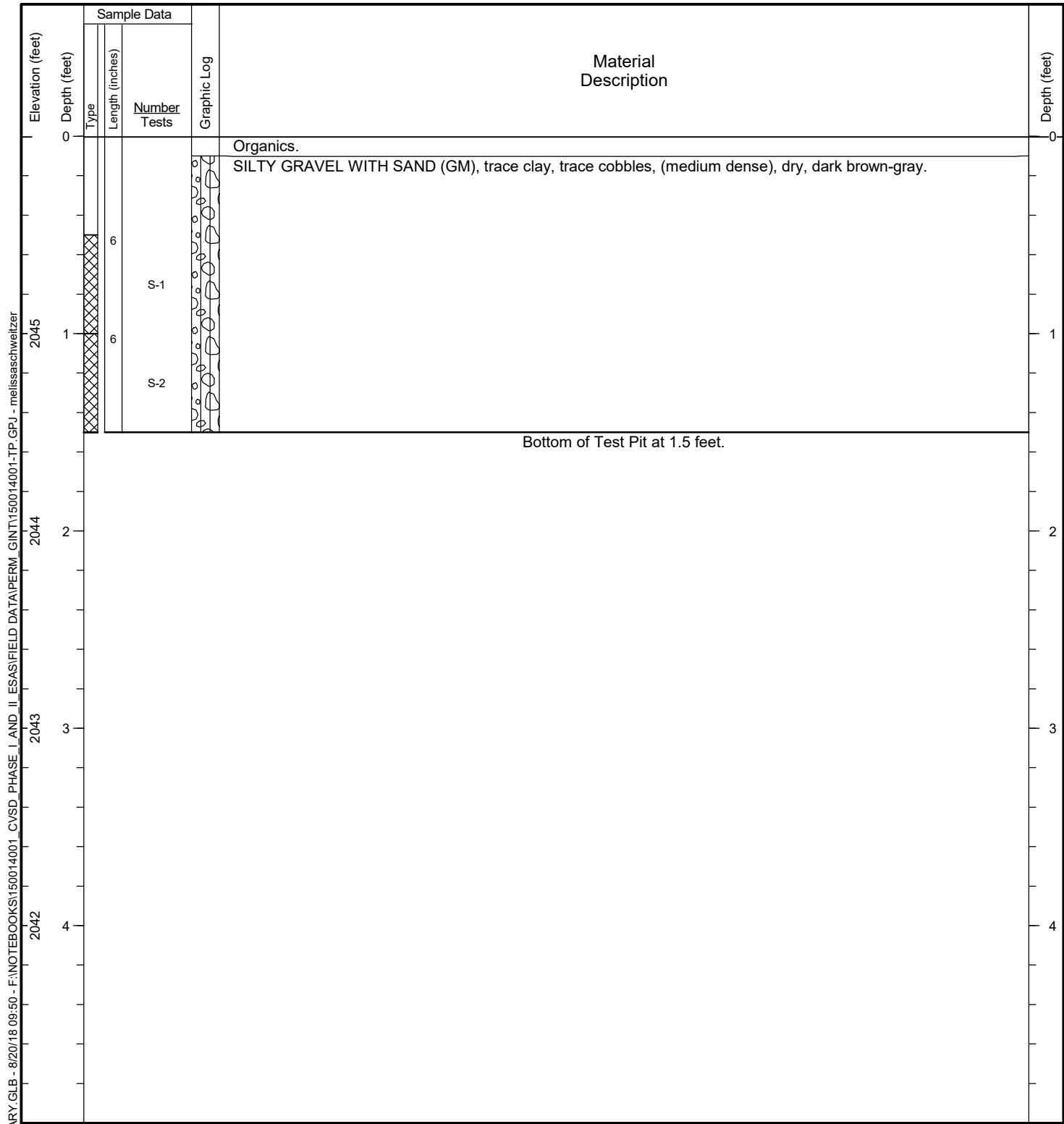
| Elevation (feet) | Sample Data | | | Graphic Log | Material Description | Depth (feet) |
|------------------|---------------------------------|------|-----------------|-------------|---|--------------|
| | Depth (feet) | Type | Length (inches) | | | |
| 0 | 0 | | | | Organics. | 0 |
| | | | | | SILTY GRAVEL WITH SAND (GM), trace clay, trace cobbles, (medium dense), dry, dark brown-gray. | |
| 2045 | 6 | | | | | 1 |
| | | | S-1 | | | |
| 2044 | 6 | | | | | 1 |
| | | | S-2 | | | |
| | Bottom of Test Pit at 1.5 feet. | | | | | |
| 2043 | | | | | | 3 |
| 2042 | | | | | | 4 |

General Notes:
 1. Refer to Figure A-1 for explanation of descriptions and symbols.
 2. Material descriptions and stratum lines are interpretive and actual changes may be gradual. Solid stratum lines indicate distinct contact between material strata or geologic units. Dashed stratum lines indicate gradual or approximate change between material strata or geologic units.
 3. USCS designations are based on visual-manual identification (ASTM D 2488) unless otherwise supported by laboratory testing (ASTM D 2487).
 4. Groundwater level, if indicated, is at time of drilling/excavation (ATD) or for date specified. Level may vary with time.

HC TEST PIT - F:\GINT\HC LIBRARY.GLB - 8/20/18 09:50 - F:\NOTEBOOKS\150014001_CVSD_PHASE I AND II_ESAS\FIELD DATA\PERM_GINT\150014001-TP_GPJ - melissaschweitzer

Date Started: 8/2/18 Date Completed: 8/2/18
 Logged by: W. McDonald Checked by: J. Haney
 Location: Lat: 47.660568 Long: -117.137543
 Ground Surface Elevation: 2046 feet
 Horizontal Datum: WGS 84
 Vertical Datum: NAVD 88

Contractor/Crew: _____
 Rig Model/Type: Bobcat 323 / Mini Excavator
 Total Depth: 1.5 feet Depth to Seepage: Not Encountered
 Comments: _____



HC TEST PIT - F:\GINT\HC LIBRARY.GLB - 8/20/18 09:50 - F:\NOTEBOOKS\150014001_CVSD_PHASE I AND II_ESAS\FIELD DATA\PERM_GINT\150014001-TP_GPJ - melissaschweitzer

General Notes:
 1. Refer to Figure A-1 for explanation of descriptions and symbols.
 2. Material descriptions and stratum lines are interpretive and actual changes may be gradual. Solid stratum lines indicate distinct contact between material strata or geologic units. Dashed stratum lines indicate gradual or approximate change between material strata or geologic units.
 3. USCS designations are based on visual-manual identification (ASTM D 2488) unless otherwise supported by laboratory testing (ASTM D 2487).
 4. Groundwater level, if indicated, is at time of drilling/excavation (ATD) or for date specified. Level may vary with time.

Date Started: 8/2/18 Date Completed: 8/2/18 Contractor/Crew: _____
 Logged by: W. McDonald Checked by: J. Haney Rig Model/Type: Bobcat 323 / Mini Excavator
 Location: Lat: 47.660294 Long: -117.137538 Total Depth: 1.5 feet Depth to Seepage: Not Encountered
 Ground Surface Elevation: 2046 feet Comments: _____
 Horizontal Datum: WGS 84 _____
 Vertical Datum: NAVD 88 _____

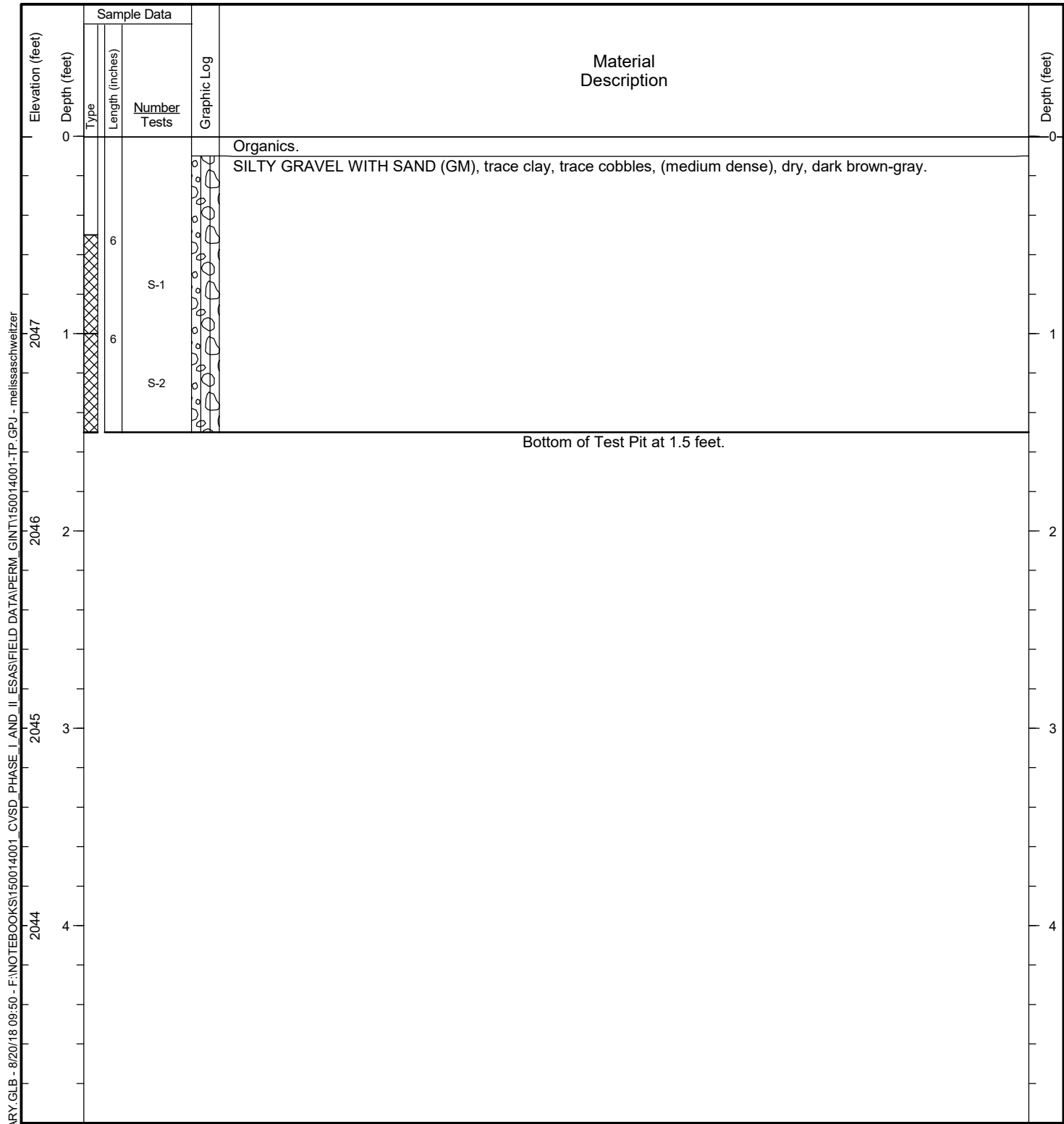
| Elevation (feet) | Sample Data | | | Graphic Log | Material Description | Depth (feet) |
|------------------|--------------|------|-----------------|-------------|---|--------------|
| | Depth (feet) | Type | Length (inches) | | | |
| 2046 | 0 | | | | Organics. | 0 |
| | | | | | SILTY GRAVEL WITH SAND (GM), trace clay, trace cobbles, (medium dense), dry, dark brown-gray. | |
| | 6 | | | | Grades to light brown. | |
| | | | | S-1 | | |
| 2045 | 1 | | 6 | | | 1 |
| | | | | S-2 | | |
| | | | | | Bottom of Test Pit at 1.5 feet. | |
| 2044 | 2 | | | | | 2 |
| 2043 | 3 | | | | | 3 |
| 2042 | 4 | | | | | 4 |

General Notes:
 1. Refer to Figure A-1 for explanation of descriptions and symbols.
 2. Material descriptions and stratum lines are interpretive and actual changes may be gradual. Solid stratum lines indicate distinct contact between material strata or geologic units. Dashed stratum lines indicate gradual or approximate change between material strata or geologic units.
 3. USCS designations are based on visual-manual identification (ASTM D 2488) unless otherwise supported by laboratory testing (ASTM D 2487).
 4. Groundwater level, if indicated, is at time of drilling/excavation (ATD) or for date specified. Level may vary with time.

HC TEST PIT - F:\GINT\HC LIBRARY.GLB - 8/20/18.09:50 - F:\NOTEBOOKS\150014001_CVSD_PHASE I AND II_ESAS\FIELD DATA\PERM_GINT\150014001-TP_GPJ - melissaschweitzer

Date Started: 8/2/18 Date Completed: 8/2/18
 Logged by: W. McDonald Checked by: J. Haney
 Location: Lat: 47.660020 Long: -117.137533
 Ground Surface Elevation: 2048 feet
 Horizontal Datum: WGS 84
 Vertical Datum: NAVD 88

Contractor/Crew: _____
 Rig Model/Type: Bobcat 323 / Mini Excavator
 Total Depth: 1.5 feet Depth to Seepage: Not Encountered
 Comments: _____

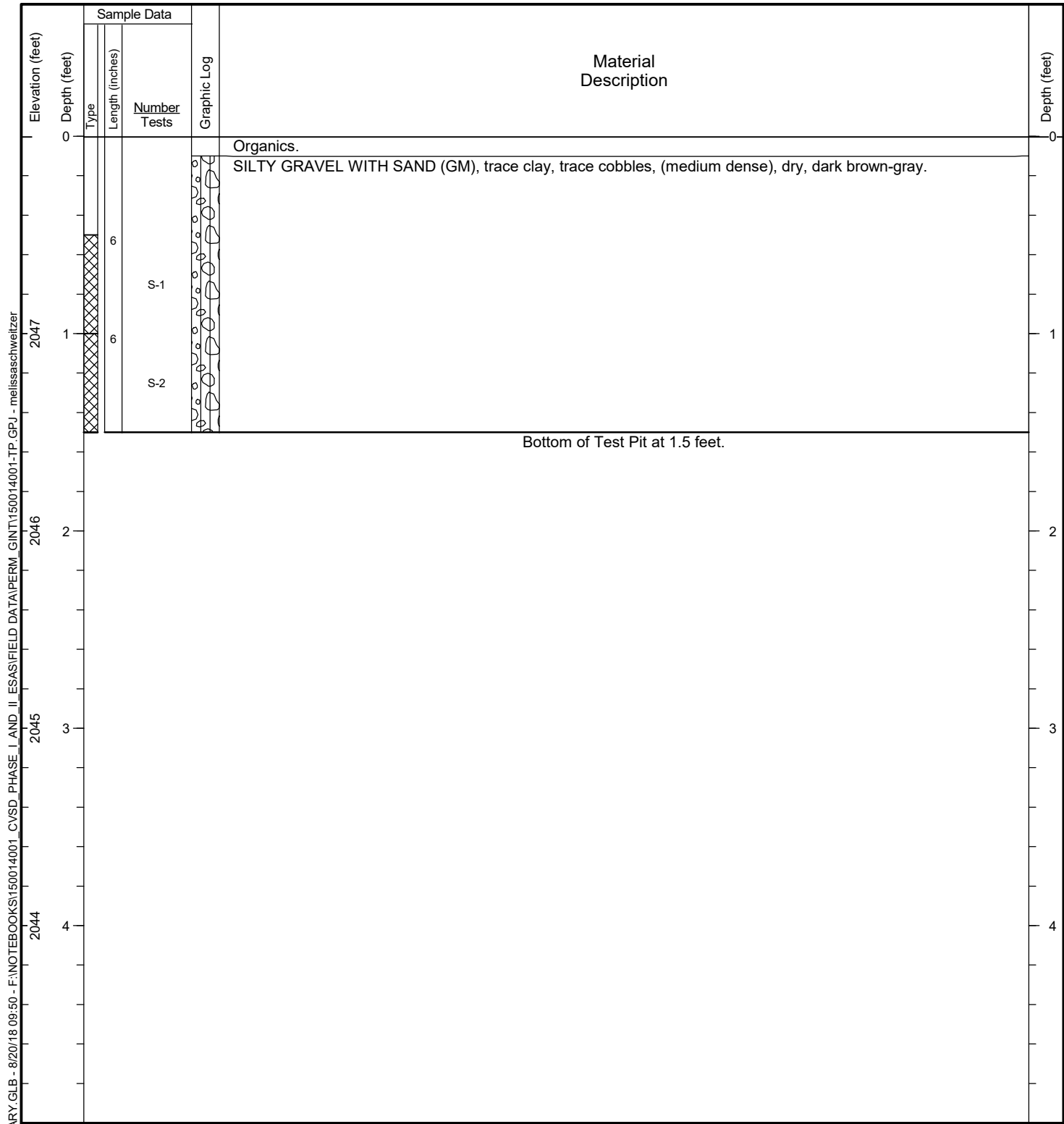


HC TEST PIT - F:\GINT\HC LIBRARY.GLB - 8/20/18.09:50 - F:\NOTEBOOKS\150014001_CVSD_PHASE I AND II_ESAS\FIELD DATA\PERM_GINT\150014001-TP_GPJ - melissaschweitzer

General Notes:
 1. Refer to Figure A-1 for explanation of descriptions and symbols.
 2. Material descriptions and stratum lines are interpretive and actual changes may be gradual. Solid stratum lines indicate distinct contact between material strata or geologic units. Dashed stratum lines indicate gradual or approximate change between material strata or geologic units.
 3. USCS designations are based on visual-manual identification (ASTM D 2488) unless otherwise supported by laboratory testing (ASTM D 2487).
 4. Groundwater level, if indicated, is at time of drilling/excavation (ATD) or for date specified. Level may vary with time.

Date Started: 8/2/18 Date Completed: 8/2/18
 Logged by: W. McDonald Checked by: J. Haney
 Location: Lat: 47.659771 Long: -117.137441
 Ground Surface Elevation: 2048 feet
 Horizontal Datum: WGS 84
 Vertical Datum: NAVD 88

Contractor/Crew: _____
 Rig Model/Type: Bobcat 323 / Mini Excavator
 Total Depth: 1.5 feet Depth to Seepage: Not Encountered
 Comments: _____

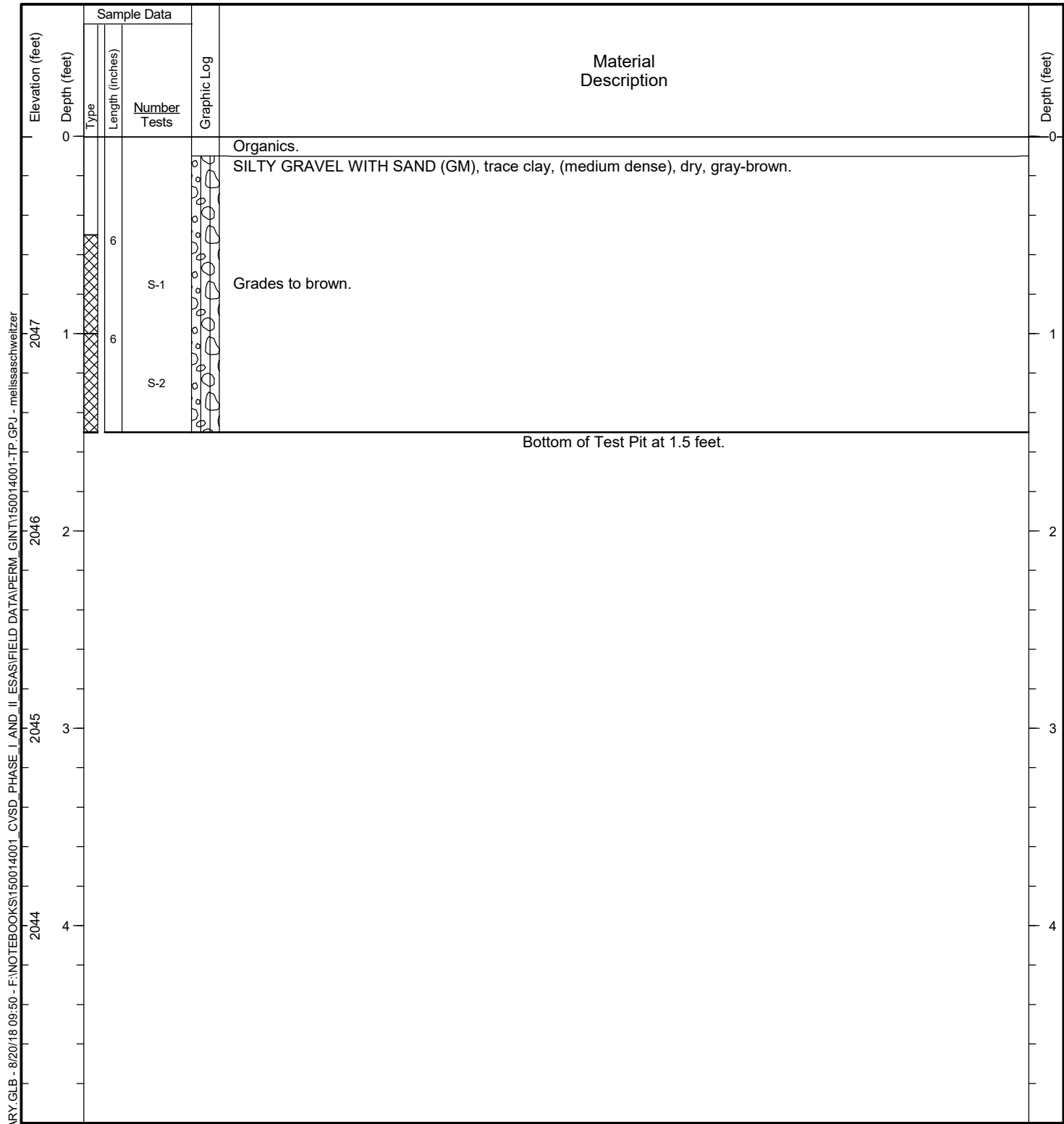


HC TEST PIT - F:\GINT\HC LIBRARY.GLB - 8/20/18.09:50 - F:\NOTEBOOKS\150014001_CVSD_PHASE_I_AND_II_ESAS\FIELD DATA\PERM_GINT\150014001-TP_GPJ - melissaschweitzer

General Notes:
 1. Refer to Figure A-1 for explanation of descriptions and symbols.
 2. Material descriptions and stratum lines are interpretive and actual changes may be gradual. Solid stratum lines indicate distinct contact between material strata or geologic units. Dashed stratum lines indicate gradual or approximate change between material strata or geologic units.
 3. USCS designations are based on visual-manual identification (ASTM D 2488) unless otherwise supported by laboratory testing (ASTM D 2487).
 4. Groundwater level, if indicated, is at time of drilling/excavation (ATD) or for date specified. Level may vary with time.

Date Started: 8/2/18 Date Completed: 8/2/18
 Logged by: W. McDonald Checked by: J. Haney
 Location: Lat: 47.659581 Long: -117.137148
 Ground Surface Elevation: 2048 feet
 Horizontal Datum: WGS 84
 Vertical Datum: NAVD 88

Contractor/Crew: _____
 Rig Model/Type: Bobcat 323 / Mini Excavator
 Total Depth: 1.5 feet Depth to Seepage: Not Encountered
 Comments: _____



HC TEST PIT - F:\GINT\HC LIBRARY.GLB - 8/20/18.09:50 - F:\NOTEBOOKS\150014001_CVSD_PHASE I AND II_ESAS\FIELD DATA\PERM_GINT\150014001-TP_GPJ - melissaschweitzer

General Notes:
 1. Refer to Figure A-1 for explanation of descriptions and symbols.
 2. Material descriptions and stratum lines are interpretive and actual changes may be gradual. Solid stratum lines indicate distinct contact between material strata or geologic units. Dashed stratum lines indicate gradual or approximate change between material strata or geologic units.
 3. USCS designations are based on visual-manual identification (ASTM D 2488) unless otherwise supported by laboratory testing (ASTM D 2487).
 4. Groundwater level, if indicated, is at time of drilling/excavation (ATD) or for date specified. Level may vary with time.



Project: Focused Phase II ESA
 Location: North Henry Road & East Sprague Avenue
 Project No.: 150-014-001

Test Pit Log
TP-12

Figure **A-13**
 Sheet **1 of 1**

Date Started: 8/2/18 Date Completed: 8/2/18
 Logged by: W. McDonald Checked by: J. Haney
 Location: Lat: 47.659391 Long: -117.136855
 Ground Surface Elevation: 2048 feet
 Horizontal Datum: WGS 84
 Vertical Datum: NAVD 88

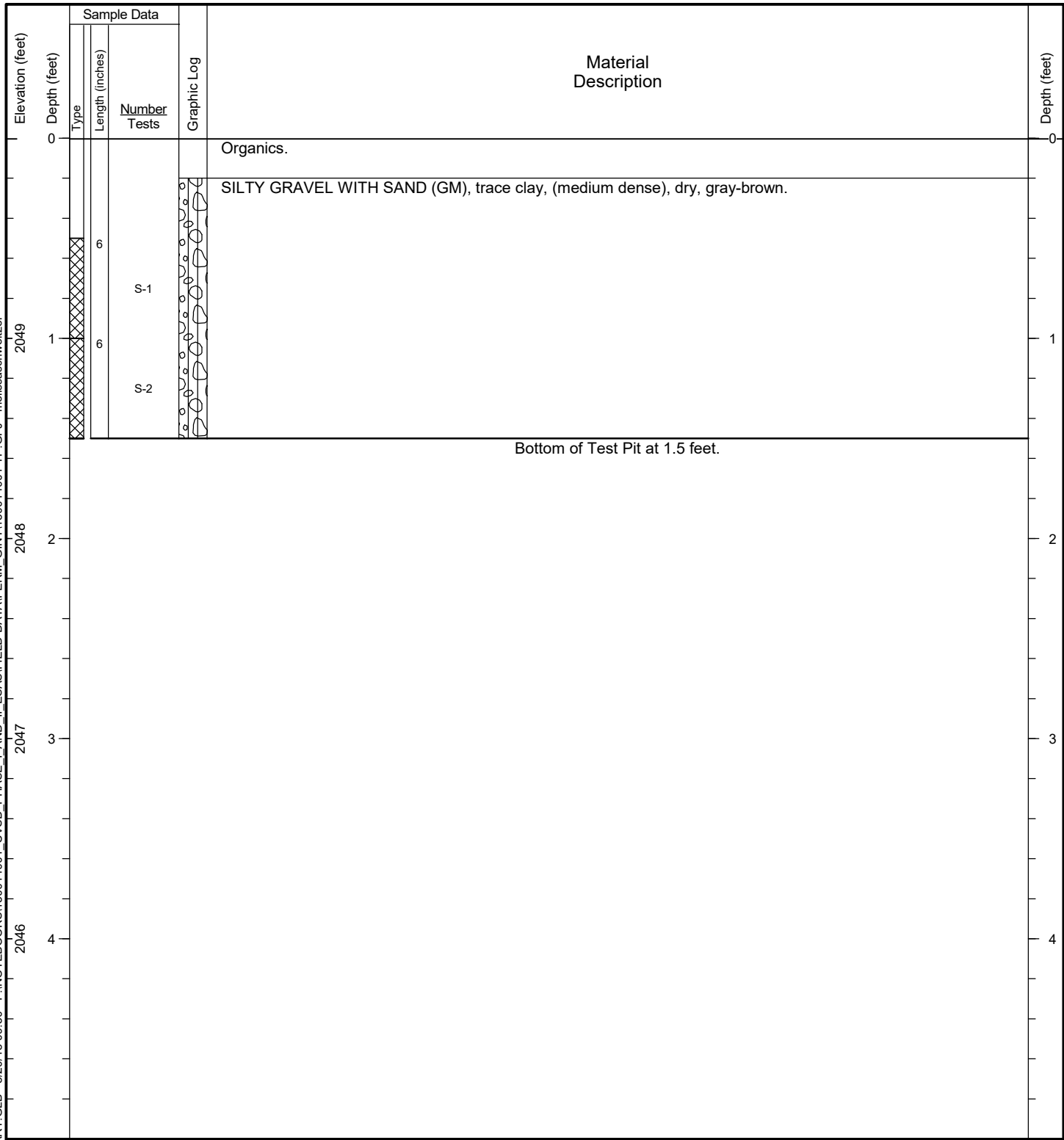
Contractor/Crew: _____
 Rig Model/Type: Bobcat 323 / Mini Excavator
 Total Depth: 1.5 feet Depth to Seepage: Not Encountered
 Comments: _____

| Elevation (feet) | Sample Data | | | Graphic Log | Material Description | Depth (feet) |
|------------------|--------------|------|-----------------|-------------|---|--------------|
| | Depth (feet) | Type | Length (inches) | | | |
| 2048 | 0 | | | | Organics. | 0 |
| | | | | | SILTY GRAVEL WITH SAND (GM), trace clay, trace cobbles, (medium dense), dry, dark brown-gray. | |
| 2047 | 0.5 | | 6 | | | 0.5 |
| | | | | | S-1 | |
| 2047 | 1.0 | | 6 | | | 1.0 |
| | | | | | S-2 | |
| | | | | | Bottom of Test Pit at 1.5 feet. | |
| 2046 | 2.0 | | | | | 2.0 |
| 2045 | 3.0 | | | | | 3.0 |
| 2044 | 4.0 | | | | | 4.0 |

General Notes:
 1. Refer to Figure A-1 for explanation of descriptions and symbols.
 2. Material descriptions and stratum lines are interpretive and actual changes may be gradual. Solid stratum lines indicate distinct contact between material strata or geologic units. Dashed stratum lines indicate gradual or approximate change between material strata or geologic units.
 3. USCS designations are based on visual-manual identification (ASTM D 2488) unless otherwise supported by laboratory testing (ASTM D 2487).
 4. Groundwater level, if indicated, is at time of drilling/excavation (ATD) or for date specified. Level may vary with time.

HC TEST PIT - F:\GINT\HC LIBRARY.GLB - 8/20/18.09:50 - F:\NOTEBOOKS\150014001_CVSD_PHASE_I_AND_II_ESAS\FIELD DATA\PERM_GINT\150014001-TP_GPJ - melissaschweitzer

Date Started: 8/2/18 Date Completed: 8/2/18 Contractor/Crew: _____
 Logged by: W. McDonald Checked by: J. Haney Rig Model/Type: Bobcat 323 / Mini Excavator
 Location: Lat: 47.659201 Long: -117.136563 Total Depth: 1.5 feet Depth to Seepage: Not Encountered
 Ground Surface Elevation: 2050 feet Comments: _____
 Horizontal Datum: WGS 84 _____
 Vertical Datum: NAVD 88 _____

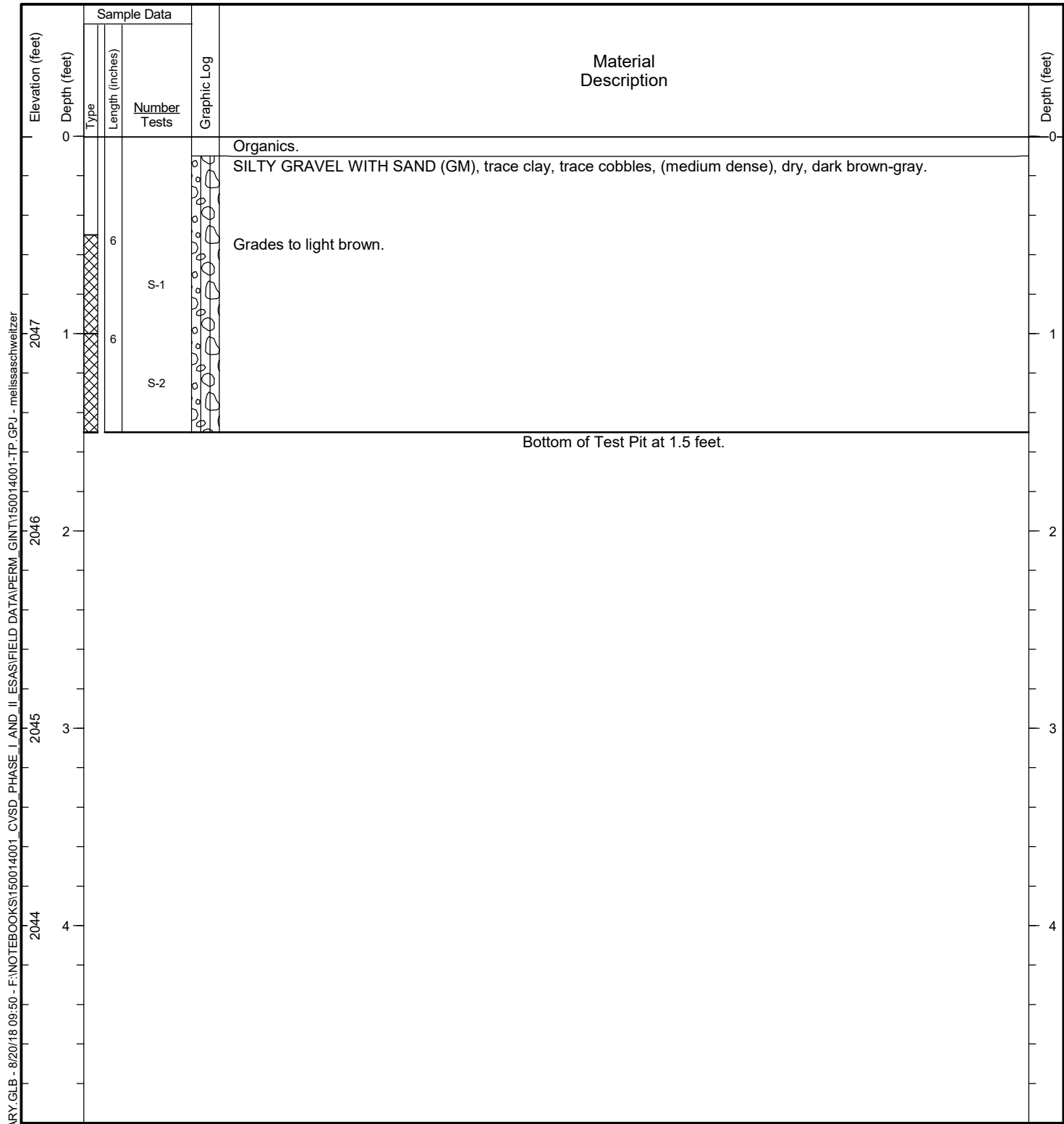


General Notes:
 1. Refer to Figure A-1 for explanation of descriptions and symbols.
 2. Material descriptions and stratum lines are interpretive and actual changes may be gradual. Solid stratum lines indicate distinct contact between material strata or geologic units. Dashed stratum lines indicate gradual or approximate change between material strata or geologic units.
 3. USCS designations are based on visual-manual identification (ASTM D 2488) unless otherwise supported by laboratory testing (ASTM D 2487).
 4. Groundwater level, if indicated, is at time of drilling/excavation (ATD) or for date specified. Level may vary with time.

HC TEST PIT - F:\GINT\HC LIBRARY.GLB - 8/20/18.09:50 - F:\NOTEBOOKS\150014001_CVSD_PHASE I AND II_ESAS\FIELD DATA\PERM_GINT\150014001-TP_GPJ - melissaschweitzer

Date Started: 8/2/18 Date Completed: 8/2/18
 Logged by: W. McDonald Checked by: J. Haney
 Location: Lat: 47.659011 Long: -117.136270
 Ground Surface Elevation: 2048 feet
 Horizontal Datum: WGS 84
 Vertical Datum: NAVD 88

Contractor/Crew: _____
 Rig Model/Type: Bobcat 323 / Mini Excavator
 Total Depth: 1.5 feet Depth to Seepage: Not Encountered
 Comments: _____



HC TEST PIT - F:\GINT\HC LIBRARY\GLB - 8/20/18.09:50 - F:\NOTEBOOKS\150014001_CVSD_PHASE I AND II_ESAS\FIELD DATA\PERM_GINT\150014001-TP_GPJ - melissaschweitzer

General Notes:
 1. Refer to Figure A-1 for explanation of descriptions and symbols.
 2. Material descriptions and stratum lines are interpretive and actual changes may be gradual. Solid stratum lines indicate distinct contact between material strata or geologic units. Dashed stratum lines indicate gradual or approximate change between material strata or geologic units.
 3. USCS designations are based on visual-manual identification (ASTM D 2488) unless otherwise supported by laboratory testing (ASTM D 2487).
 4. Groundwater level, if indicated, is at time of drilling/excavation (ATD) or for date specified. Level may vary with time.

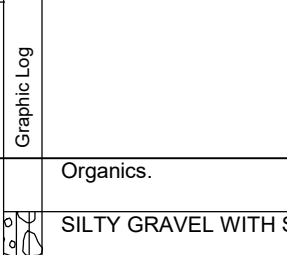


Project: Focused Phase II ESA
 Location: North Henry Road & East Sprague Avenue
 Project No.: 150-014-001

Test Pit Log
TP-15

Figure **A-16**
 Sheet **1 of 1**

Date Started: 8/2/18 Date Completed: 8/2/18 Contractor/Crew: _____
 Logged by: W. McDonald Checked by: J. Haney Rig Model/Type: Bobcat 323 / Mini Excavator
 Location: Lat: 47.658821 Long: -117.135978 Total Depth: 1.5 feet Depth to Seepage: Not Encountered
 Ground Surface Elevation: 2048 feet Comments: _____
 Horizontal Datum: WGS 84 _____
 Vertical Datum: NAVD 88 _____

| Elevation (feet) | Depth (feet) | Sample Data | | | Graphic Log | Material Description | Depth (feet) |
|------------------|--------------|---------------------------------|-----------------|--------------|---|--|--------------|
| | | Type | Length (inches) | Number Tests | | | |
| 2048 | 0 | | | | | Organics. | 0 |
| 2047 | 0.5 | | | S-1 |  | SILTY GRAVEL WITH SAND (GM), trace clay, trace cobbles, (medium dense), dry, gray-brown. | 0.5 |
| 2047 | 1.0 | | | S-2 | | | |
| 2046 | 1.5 | Bottom of Test Pit at 1.5 feet. | | | | | 1.5 |
| 2045 | 2.0 | | | | | | 2.0 |
| 2044 | 3.0 | | | | | | 3.0 |
| 2044 | 4.0 | | | | | | 4.0 |

General Notes:
 1. Refer to Figure A-1 for explanation of descriptions and symbols.
 2. Material descriptions and stratum lines are interpretive and actual changes may be gradual. Solid stratum lines indicate distinct contact between material strata or geologic units. Dashed stratum lines indicate gradual or approximate change between material strata or geologic units.
 3. USCS designations are based on visual-manual identification (ASTM D 2488) unless otherwise supported by laboratory testing (ASTM D 2487).
 4. Groundwater level, if indicated, is at time of drilling/excavation (ATD) or for date specified. Level may vary with time.

HC TEST PIT - F:\GINT\HC LIBRARY.GLB - 8/20/18.09:50 - F:\NOTEBOOKS\150014001_CVSD_PHASE_I_AND_II_ESAS\FIELD DATA\PERM_GINT\150014001-TP_GPJ - melissaschweitzer

Date Started: 8/2/18 Date Completed: 8/2/18
 Logged by: W. McDonald Checked by: J. Haney
 Location: Lat: 47.658678 Long: -117.135640
 Ground Surface Elevation: 2048 feet
 Horizontal Datum: WGS 84
 Vertical Datum: NAVD 88

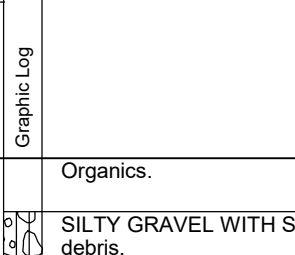
Contractor/Crew: _____
 Rig Model/Type: Bobcat 323 / Mini Excavator
 Total Depth: 1.5 feet Depth to Seepage: Not Encountered
 Comments: _____

HC TEST PIT - F:\GINT\HC LIBRARY_GLB - 8/20/18.09:50 - F:\NOTEBOOKS\150014001_CVSD_PHASE I AND II_ESAS\FIELD DATA\PERM_GINT\150014001-TP_GPJ - melissaschweitzer

| Elevation (feet) | Sample Data | | | Graphic Log | Material Description | Depth (feet) |
|------------------|--------------|------|-----------------|-------------|---|--------------|
| | Depth (feet) | Type | Length (inches) | | | |
| 2047 | 0 | | | | Organics. | 0 |
| | | | | | SILTY GRAVEL WITH SAND (GM), trace clay, trace cobbles, (medium dense), dry, dark brown-gray, clay pigeon debris. | |
| | 6 | | | | Grades to light brown. | |
| | | | | S-1 | | |
| | 1 | | | | | 1 |
| | | | | S-2 | | |
| | | | | | | |
| 2046 | 2 | | | | Bottom of Test Pit at 1.5 feet. | 2 |
| 2045 | 3 | | | | | 3 |
| 2044 | 4 | | | | | 4 |

General Notes:
 1. Refer to Figure A-1 for explanation of descriptions and symbols.
 2. Material descriptions and stratum lines are interpretive and actual changes may be gradual. Solid stratum lines indicate distinct contact between material strata or geologic units. Dashed stratum lines indicate gradual or approximate change between material strata or geologic units.
 3. USCS designations are based on visual-manual identification (ASTM D 2488) unless otherwise supported by laboratory testing (ASTM D 2487).
 4. Groundwater level, if indicated, is at time of drilling/excavation (ATD) or for date specified. Level may vary with time.

Date Started: 8/2/18 Date Completed: 8/2/18 Contractor/Crew: _____
 Logged by: W. McDonald Checked by: J. Haney Rig Model/Type: Bobcat 323 / Mini Excavator
 Location: Lat: 47.658404 Long: -117.135642 Total Depth: 1.5 feet Depth to Seepage: Not Encountered
 Ground Surface Elevation: 2048 feet Comments: _____
 Horizontal Datum: WGS 84 _____
 Vertical Datum: NAVD 88 _____

| Elevation (feet) | Depth (feet) | Sample Data | | | Graphic Log | Material Description | Depth (feet) |
|------------------|--------------|---------------------------------|-----------------|--------------|---|--|--------------|
| | | Type | Length (inches) | Number Tests | | | |
| 2048 | 0 | | | | | Organics. | 0 |
| 2047 | 0.5 | | 6 | S-1 |  | SILTY GRAVEL WITH SAND (GM), trace clay, trace cobbles, (medium dense), dry, gray-brown, clay pigeon debris. | 0.5 |
| 2047 | 1.0 | | 6 | S-2 | | | |
| 2046 | 1.5 | Bottom of Test Pit at 1.5 feet. | | | | | 1.5 |
| 2045 | 2.0 | | | | | | 2.0 |
| 2044 | 3.0 | | | | | | 3.0 |
| 2044 | 4.0 | | | | | | 4.0 |

General Notes:
 1. Refer to Figure A-1 for explanation of descriptions and symbols.
 2. Material descriptions and stratum lines are interpretive and actual changes may be gradual. Solid stratum lines indicate distinct contact between material strata or geologic units. Dashed stratum lines indicate gradual or approximate change between material strata or geologic units.
 3. USCS designations are based on visual-manual identification (ASTM D 2488) unless otherwise supported by laboratory testing (ASTM D 2487).
 4. Groundwater level, if indicated, is at time of drilling/excavation (ATD) or for date specified. Level may vary with time.

HC TEST PIT - F:\GINT\HC LIBRARY.GLB - 8/20/18.09:50 - F:\NOTEBOOKS\150014001_CVSD_PHASE I AND II_ESAS\FIELD DATA\PERM_GINT\150014001-TP_GPJ - melissaschweitzer

Date Started: 8/2/18 Date Completed: 8/2/18 Contractor/Crew: _____
 Logged by: W. McDonald Checked by: J. Haney Rig Model/Type: Bobcat 323 / Mini Excavator
 Location: Lat: 47.658130 Long: -117.135644 Total Depth: 1.5 feet Depth to Seepage: Not Encountered
 Ground Surface Elevation: 2050 feet Comments: _____
 Horizontal Datum: WGS 84 _____
 Vertical Datum: NAVD 88 _____

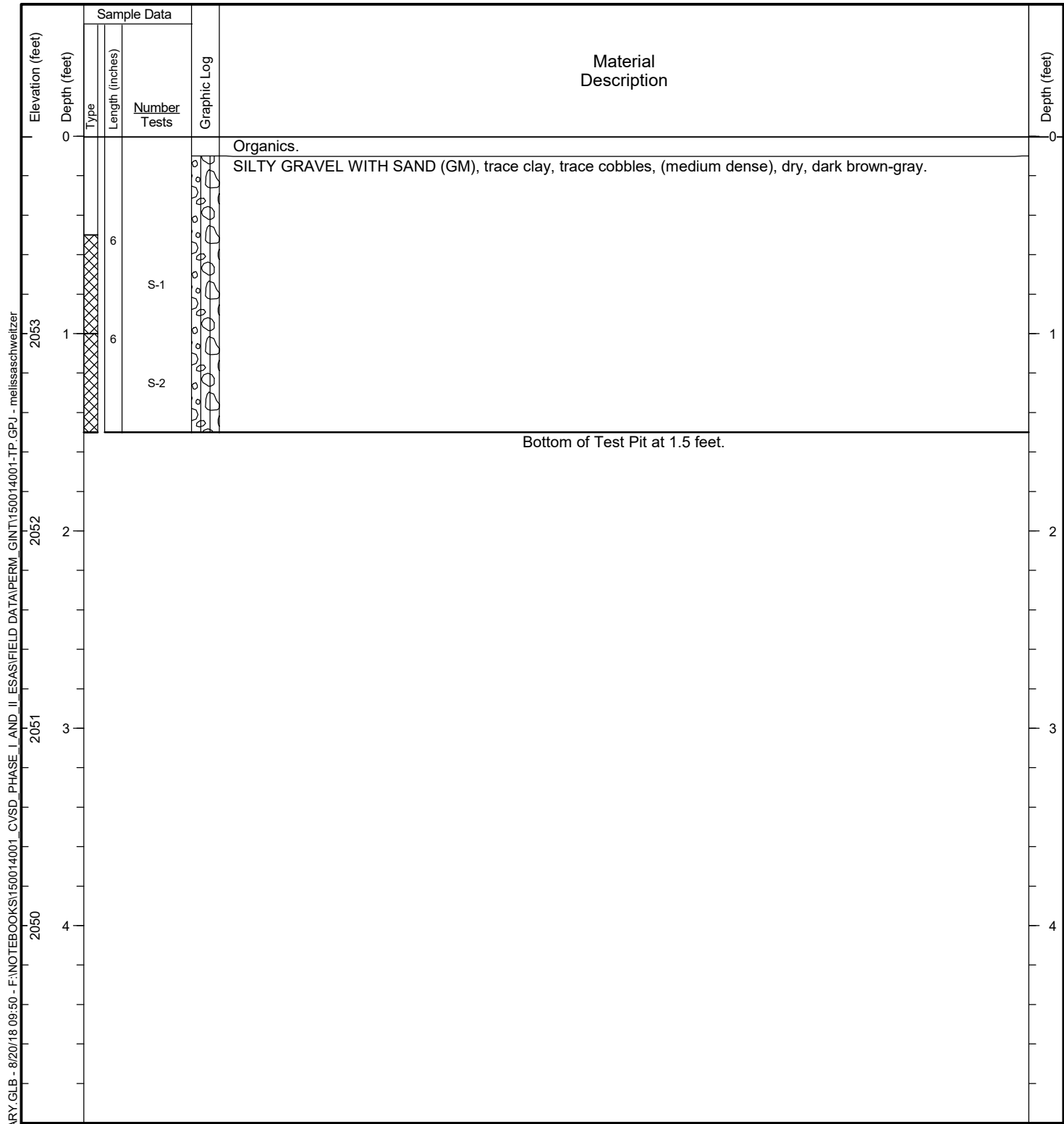
| Elevation (feet) | Sample Data | | | Graphic Log | Material Description | Depth (feet) |
|------------------|--------------|------|-----------------|-------------|---|--------------|
| | Depth (feet) | Type | Length (inches) | | | |
| 2049 | 0 | | | | Organics. | 0 |
| | | | | | SILTY GRAVEL WITH SAND (GM), trace clay, trace cobbles, (medium dense), dry, dark brown-gray, clay pigeon debris. | |
| | 6 | | | | Grades to light brown. | |
| | | | | S-1 | | |
| | 1 | | | | | 1 |
| | | | | S-2 | | |
| | | | | | Bottom of Test Pit at 1.5 feet. | |
| 2048 | 2 | | | | | 2 |
| 2047 | 3 | | | | | 3 |
| 2046 | 4 | | | | | 4 |

General Notes:
 1. Refer to Figure A-1 for explanation of descriptions and symbols.
 2. Material descriptions and stratum lines are interpretive and actual changes may be gradual. Solid stratum lines indicate distinct contact between material strata or geologic units. Dashed stratum lines indicate gradual or approximate change between material strata or geologic units.
 3. USCS designations are based on visual-manual identification (ASTM D 2488) unless otherwise supported by laboratory testing (ASTM D 2487).
 4. Groundwater level, if indicated, is at time of drilling/excavation (ATD) or for date specified. Level may vary with time.

HC TEST PIT - F:\GINT\HC LIBRARY.GLB - 8/20/18.09:50 - F:\NOTEBOOKS\150014001_CVSD_PHASE_I_AND_II_ESAS\FIELD DATA\PERM_GINT\150014001-TP_GPJ - melissaschweitzer

Date Started: 8/2/18 Date Completed: 8/2/18
 Logged by: W. McDonald Checked by: J. Haney
 Location: Lat: 47.657856 Long: -117.135646
 Ground Surface Elevation: 2054 feet
 Horizontal Datum: WGS 84
 Vertical Datum: NAVD 88

Contractor/Crew: _____
 Rig Model/Type: Bobcat 323 / Mini Excavator
 Total Depth: 1.5 feet Depth to Seepage: Not Encountered
 Comments: _____



HC TEST PIT - F:\GINT\HC LIBRARY.GLB - 8/20/18.09:50 - F:\NOTEBOOKS\150014001_CVSD_PHASE_I_AND_II_ESAS\FIELD DATA\PERM_GINT\150014001-TP_GPJ - melissaschweitzer

General Notes:
 1. Refer to Figure A-1 for explanation of descriptions and symbols.
 2. Material descriptions and stratum lines are interpretive and actual changes may be gradual. Solid stratum lines indicate distinct contact between material strata or geologic units. Dashed stratum lines indicate gradual or approximate change between material strata or geologic units.
 3. USCS designations are based on visual-manual identification (ASTM D 2488) unless otherwise supported by laboratory testing (ASTM D 2487).
 4. Groundwater level, if indicated, is at time of drilling/excavation (ATD) or for date specified. Level may vary with time.



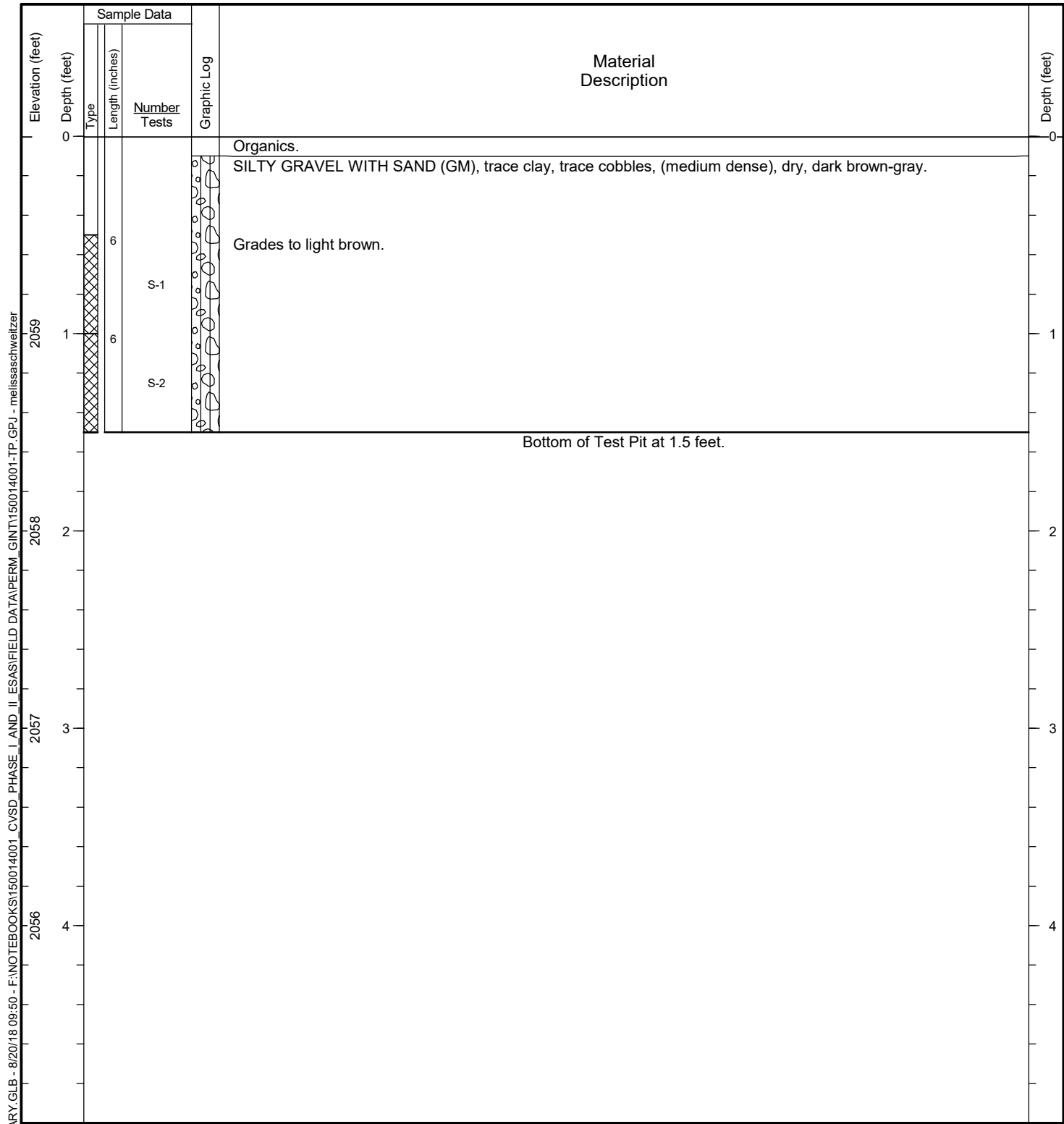
Project: Focused Phase II ESA
 Location: North Henry Road & East Sprague Avenue
 Project No.: 150-014-001

Test Pit Log
TP-20

Figure **A-21**
 Sheet **1 of 1**

Date Started: 8/2/18 Date Completed: 8/2/18
 Logged by: W. McDonald Checked by: J. Haney
 Location: Lat: 47.657582 Long: -117.135648
 Ground Surface Elevation: 2060 feet
 Horizontal Datum: WGS 84
 Vertical Datum: NAVD 88

Contractor/Crew: _____
 Rig Model/Type: Bobcat 323 / Mini Excavator
 Total Depth: 1.5 feet Depth to Seepage: Not Encountered
 Comments: _____



HC TEST PIT - F:\GINT\HC LIBRARY.GLB - 8/20/18.09:50 - F:\NOTEBOOKS\150014001_CVSD_PHASE_I_AND_II_ESAS\FIELD DATA\PERM_GINT\150014001-TP_GPJ - melissaschweitzer

General Notes:
 1. Refer to Figure A-1 for explanation of descriptions and symbols.
 2. Material descriptions and stratum lines are interpretive and actual changes may be gradual. Solid stratum lines indicate distinct contact between material strata or geologic units. Dashed stratum lines indicate gradual or approximate change between material strata or geologic units.
 3. USCS designations are based on visual-manual identification (ASTM D 2488) unless otherwise supported by laboratory testing (ASTM D 2487).
 4. Groundwater level, if indicated, is at time of drilling/excavation (ATD) or for date specified. Level may vary with time.



Project: Focused Phase II ESA
 Location: North Henry Road & East Sprague Avenue
 Project No.: 150-014-001

Test Pit Log
TP-21

Figure **A-22**
 Sheet **1 of 1**

Date Started: 8/2/18 Date Completed: 8/2/18
 Logged by: W. McDonald Checked by: J. Haney
 Location: Lat: 47.657307 Long: -117.135650
 Ground Surface Elevation: 2064 feet
 Horizontal Datum: WGS 84
 Vertical Datum: NAVD 88

Contractor/Crew: _____
 Rig Model/Type: Bobcat 323 / Mini Excavator
 Total Depth: 1.5 feet Depth to Seepage: Not Encountered
 Comments: _____

| Elevation (feet) | Sample Data | | | Graphic Log | Material Description | Depth (feet) |
|------------------|--------------|------|-----------------|-------------|---|--------------|
| | Depth (feet) | Type | Length (inches) | | | |
| 0 | 0 | | | | Organics. | 0 |
| | | | | | SILTY GRAVEL WITH SAND (GM), trace clay, trace cobbles, (medium dense), dry, dark brown-gray. | |
| 2063 | 6 | | | | | 1 |
| | | | S-1 | | | |
| | 6 | | | | | |
| | | | S-2 | | | |
| | | | | | Bottom of Test Pit at 1.5 feet. | |
| 2062 | | | | | | 2 |
| 2061 | | | | | | 3 |
| 2060 | | | | | | 4 |

HC TEST PIT - F:\GINT\HC LIBRARY.GLB - 8/20/18.09:50 - F:\NOTEBOOKS\150014001_CVSD_PHASE I AND II_ESAS\FIELD DATA\PERM_GINT\150014001-TP_GPJ - melissaschweitzer

General Notes:
 1. Refer to Figure A-1 for explanation of descriptions and symbols.
 2. Material descriptions and stratum lines are interpretive and actual changes may be gradual. Solid stratum lines indicate distinct contact between material strata or geologic units. Dashed stratum lines indicate gradual or approximate change between material strata or geologic units.
 3. USCS designations are based on visual-manual identification (ASTM D 2488) unless otherwise supported by laboratory testing (ASTM D 2487).
 4. Groundwater level, if indicated, is at time of drilling/excavation (ATD) or for date specified. Level may vary with time.

Date Started: 8/2/18 Date Completed: 8/2/18 Contractor/Crew: _____
 Logged by: W. McDonald Checked by: J. Haney Rig Model/Type: Bobcat 323 / Mini Excavator
 Location: Lat: 47.657102 Long: -117.135652 Total Depth: 1.5 feet Depth to Seepage: Not Encountered
 Ground Surface Elevation: 2068 feet Comments: _____
 Horizontal Datum: WGS 84 _____
 Vertical Datum: NAVD 88 _____

| Elevation (feet) | Sample Data | | | Graphic Log | Material Description | Depth (feet) |
|------------------|--------------|------|-----------------|-------------|---|--------------|
| | Depth (feet) | Type | Length (inches) | | | |
| 0 | 0 | | | | Organics. | 0 |
| | | | | | SILTY GRAVEL WITH SAND (GM), trace clay, trace cobbles, (medium dense), dry, dark brown-gray. | |
| 2067 | 6 | | | | | 1 |
| | | | S-1 | | | |
| | 6 | | | | | |
| | | | S-2 | | | |
| | | | | | Bottom of Test Pit at 1.5 feet. | |
| 2066 | | | | | | 2 |
| | | | | | | |
| 2065 | | | | | | 3 |
| | | | | | | |
| 2064 | | | | | | 4 |

General Notes:
 1. Refer to Figure A-1 for explanation of descriptions and symbols.
 2. Material descriptions and stratum lines are interpretive and actual changes may be gradual. Solid stratum lines indicate distinct contact between material strata or geologic units. Dashed stratum lines indicate gradual or approximate change between material strata or geologic units.
 3. USCS designations are based on visual-manual identification (ASTM D 2488) unless otherwise supported by laboratory testing (ASTM D 2487).
 4. Groundwater level, if indicated, is at time of drilling/excavation (ATD) or for date specified. Level may vary with time.

HC TEST PIT - F:\GINT\HC LIBRARY.GLB - 8/20/18.09:50 - F:\NOTEBOOKS\150014001_CVSD_PHASE_I_AND_II_ESAS\FIELD DATA\PERM_GINT\150014001-TP_GPJ - melissaschweitzer

ATTACHMENT 3
Chemical Analytical Results

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Spokane

11922 East 1st Ave

Spokane, WA 99206

Tel: (509)924-9200

TestAmerica Job ID: 590-9053-1

Client Project/Site: Focused Phase II ESA

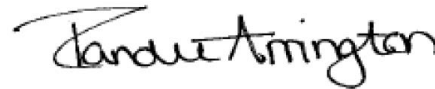
For:

Hart Crowser, Inc.

505 West Riverside Avenue, Suite 205

Spokane, Washington 99201

Attn: John Haney



Authorized for release by:

8/7/2018 4:07:52 PM

Randee Arrington, Project Manager II

(509)924-9200

randee.arrington@testamericainc.com

LINKS

Review your project
results through

TotalAccess

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.

1

2

3

4

5

6

7

8

9

10

11

12

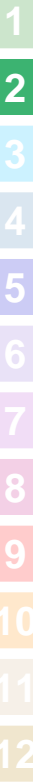


Table of Contents

| | |
|---------------------------------|----|
| Cover Page | 1 |
| Table of Contents | 2 |
| Case Narrative | 3 |
| Sample Summary | 4 |
| Definitions | 5 |
| Client Sample Results | 6 |
| QC Sample Results | 11 |
| Chronicle | 14 |
| Certification Summary | 22 |
| Method Summary | 23 |
| Chain of Custody | 24 |
| Receipt Checklists | 28 |

Case Narrative

Client: Hart Crowser, Inc.
Project/Site: Focused Phase II ESA

TestAmerica Job ID: 590-9053-1

Job ID: 590-9053-1

Laboratory: TestAmerica Spokane

Narrative

Receipt

The samples were received on 8/2/2018 2:45 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 7.6° C.

Receipt Exceptions

The following samples were received at the laboratory outside the required temperature criteria: TP-19-6 (590-9053-1), TP-19-12 (590-9053-2), TP-20-6 (590-9053-3), TP-20-12 (590-9053-4), TP-21-6 (590-9053-5), TP-21-12 (590-9053-6), TP-22-6 (590-9053-7), TP-22-12 (590-9053-8), TP-23-6 (590-9053-9), TP-23-12 (590-9053-10), TP-17-6 (590-9053-11), TP-17-12 (590-9053-12), TP-15-6 (590-9053-13), TP-15-12 (590-9053-14), TP-13-6 (590-9053-15), TP-13-12 (590-9053-16), TP-11-6 (590-9053-17), TP-11-12 (590-9053-18), TP-10-6 (590-9053-19), TP-10-12 (590-9053-20), TP-1-6 (590-9053-21), TP-1-12 (590-9053-22), TP-9-6 (590-9053-23), TP-9-12 (590-9053-24), TP-8-6 (590-9053-25), TP-8-12 (590-9053-26), TP-7-6 (590-9053-27), TP-7-12 (590-9053-28), TP-5-6 (590-9053-29), TP-5-12 (590-9053-30), TP-4-6 (590-9053-31), TP-4-12 (590-9053-32), TP-2-6 (590-9053-33), TP-2-12 (590-9053-34), TP-18-6 (590-9053-35), TP-18-12 (590-9053-36), TP-16-6 (590-9053-37), TP-16-12 (590-9053-38), TP-14-6 (590-9053-39), TP-14-12 (590-9053-40), TP-12-6 (590-9053-41), TP-12-12 (590-9053-42), TP-6-6 (590-9053-43), TP-6-12 (590-9053-44), TP-3-6 (590-9053-45) and TP-3-12 (590-9053-46). The samples are considered acceptable since they were collected and submitted to the laboratory on the same day and there is evidence that the chilling process has begun.

GC/MS Semi VOA

Method 8270D SIM: The following samples were diluted to bring the concentration of target analytes within the calibration range: TP-19-6 (590-9053-1) and TP-18-6 (590-9053-35). Elevated reporting limits (RLs) are provided.

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

Metals

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

General Chemistry

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

Organic Prep

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

Sample Summary

Client: Hart Crowser, Inc.
Project/Site: Focused Phase II ESA

TestAmerica Job ID: 590-9053-1

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received |
|---------------|------------------|--------|----------------|----------------|
| 590-9053-1 | TP-19-6 | Solid | 08/02/18 09:50 | 08/02/18 14:45 |
| 590-9053-3 | TP-20-6 | Solid | 08/02/18 10:00 | 08/02/18 14:45 |
| 590-9053-5 | TP-21-6 | Solid | 08/02/18 10:10 | 08/02/18 14:45 |
| 590-9053-7 | TP-22-6 | Solid | 08/02/18 10:20 | 08/02/18 14:45 |
| 590-9053-9 | TP-23-6 | Solid | 08/02/18 10:30 | 08/02/18 14:45 |
| 590-9053-11 | TP-17-6 | Solid | 08/02/18 10:50 | 08/02/18 14:45 |
| 590-9053-13 | TP-15-6 | Solid | 08/02/18 11:00 | 08/02/18 14:45 |
| 590-9053-15 | TP-13-6 | Solid | 08/02/18 11:10 | 08/02/18 14:45 |
| 590-9053-17 | TP-11-6 | Solid | 08/02/18 11:30 | 08/02/18 14:45 |
| 590-9053-19 | TP-10-6 | Solid | 08/02/18 11:40 | 08/02/18 14:45 |
| 590-9053-21 | TP-1-6 | Solid | 08/02/18 12:50 | 08/02/18 14:45 |
| 590-9053-23 | TP-9-6 | Solid | 08/02/18 11:50 | 08/02/18 14:45 |
| 590-9053-25 | TP-8-6 | Solid | 08/02/18 12:00 | 08/02/18 14:45 |
| 590-9053-27 | TP-7-6 | Solid | 08/02/18 12:10 | 08/02/18 14:45 |
| 590-9053-29 | TP-5-6 | Solid | 08/02/18 12:20 | 08/02/18 14:45 |
| 590-9053-31 | TP-4-6 | Solid | 08/02/18 12:30 | 08/02/18 14:45 |
| 590-9053-33 | TP-2-6 | Solid | 08/02/18 12:40 | 08/02/18 14:45 |
| 590-9053-35 | TP-18-6 | Solid | 08/02/18 10:50 | 08/02/18 14:45 |
| 590-9053-37 | TP-16-6 | Solid | 08/02/18 11:11 | 08/02/18 14:45 |
| 590-9053-39 | TP-14-6 | Solid | 08/02/18 11:30 | 08/02/18 14:45 |
| 590-9053-41 | TP-12-6 | Solid | 08/02/18 11:50 | 08/02/18 14:45 |
| 590-9053-43 | TP-6-6 | Solid | 08/02/18 12:25 | 08/02/18 14:45 |
| 590-9053-45 | TP-3-6 | Solid | 08/02/18 12:45 | 08/02/18 14:45 |

Definitions/Glossary

Client: Hart Crowser, Inc.
Project/Site: Focused Phase II ESA

TestAmerica Job ID: 590-9053-1

Qualifiers

Metals

| Qualifier | Qualifier Description |
|-----------|---|
| 4 | MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable. |

Glossary

| Abbreviation | These commonly used abbreviations may or may not be present in this report. |
|----------------|---|
| α | 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 | Detection Limit (DoD/DOE) |
| DL, RA, RE, IN | Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample |
| DLC | Decision Level Concentration (Radiochemistry) |
| EDL | Estimated Detection Limit (Dioxin) |
| LOD | Limit of Detection (DoD/DOE) |
| LOQ | Limit of Quantitation (DoD/DOE) |
| MDA | Minimum Detectable Activity (Radiochemistry) |
| MDC | Minimum Detectable Concentration (Radiochemistry) |
| 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 (Radiochemistry) |
| RL | Reporting Limit or Requested Limit (Radiochemistry) |
| RPD | Relative Percent Difference, a measure of the relative difference between two points |
| TEF | Toxicity Equivalent Factor (Dioxin) |
| TEQ | Toxicity Equivalent Quotient (Dioxin) |

Client Sample Results

Client: Hart Crowser, Inc.
Project/Site: Focused Phase II ESA

TestAmerica Job ID: 590-9053-1

Client Sample ID: TP-19-6

Date Collected: 08/02/18 09:50

Date Received: 08/02/18 14:45

Lab Sample ID: 590-9053-1

Matrix: Solid

Percent Solids: 93.5

Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------------|-------------|-----------|-----|-----|-------|---|----------------|----------------|---------|
| Naphthalene | ND | | 100 | | ug/Kg | ☼ | 08/06/18 12:38 | 08/06/18 17:05 | 10 |
| 2-Methylnaphthalene | ND | | 100 | | ug/Kg | ☼ | 08/06/18 12:38 | 08/06/18 17:05 | 10 |
| 1-Methylnaphthalene | ND | | 100 | | ug/Kg | ☼ | 08/06/18 12:38 | 08/06/18 17:05 | 10 |
| Acenaphthylene | ND | | 100 | | ug/Kg | ☼ | 08/06/18 12:38 | 08/06/18 17:05 | 10 |
| Acenaphthene | 550 | | 100 | | ug/Kg | ☼ | 08/06/18 12:38 | 08/06/18 17:05 | 10 |
| Fluorene | 170 | | 100 | | ug/Kg | ☼ | 08/06/18 12:38 | 08/06/18 17:05 | 10 |
| Phenanthrene | 2700 | | 100 | | ug/Kg | ☼ | 08/06/18 12:38 | 08/06/18 17:05 | 10 |
| Anthracene | 670 | | 100 | | ug/Kg | ☼ | 08/06/18 12:38 | 08/06/18 17:05 | 10 |
| Fluoranthene | 6300 | | 100 | | ug/Kg | ☼ | 08/06/18 12:38 | 08/06/18 17:05 | 10 |
| Pyrene | 7800 | | 100 | | ug/Kg | ☼ | 08/06/18 12:38 | 08/06/18 17:05 | 10 |
| Benzo[a]anthracene | 5100 | | 100 | | ug/Kg | ☼ | 08/06/18 12:38 | 08/06/18 17:05 | 10 |
| Chrysene | 6500 | | 100 | | ug/Kg | ☼ | 08/06/18 12:38 | 08/06/18 17:05 | 10 |
| Benzo[b]fluoranthene | 7600 | | 100 | | ug/Kg | ☼ | 08/06/18 12:38 | 08/06/18 17:05 | 10 |
| Benzo[k]fluoranthene | 3300 | | 100 | | ug/Kg | ☼ | 08/06/18 12:38 | 08/06/18 17:05 | 10 |
| Benzo[a]pyrene | 7000 | | 100 | | ug/Kg | ☼ | 08/06/18 12:38 | 08/06/18 17:05 | 10 |
| Indeno[1,2,3-cd]pyrene | 4300 | | 100 | | ug/Kg | ☼ | 08/06/18 12:38 | 08/06/18 17:05 | 10 |
| Dibenz(a,h)anthracene | 1300 | | 100 | | ug/Kg | ☼ | 08/06/18 12:38 | 08/06/18 17:05 | 10 |
| Benzo[g,h,i]perylene | 5100 | | 100 | | ug/Kg | ☼ | 08/06/18 12:38 | 08/06/18 17:05 | 10 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-------------------------|-----------|-----------|----------|----------------|----------------|---------|
| Nitrobenzene-d5 | 85 | | 23 - 120 | 08/06/18 12:38 | 08/06/18 17:05 | 10 |
| 2-Fluorobiphenyl (Surr) | 93 | | 38 - 123 | 08/06/18 12:38 | 08/06/18 17:05 | 10 |
| p-Terphenyl-d14 | 99 | | 68 - 136 | 08/06/18 12:38 | 08/06/18 17:05 | 10 |

Method: 6010C - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------|-------------|-----------|-----|-----|-------|---|----------------|----------------|---------|
| Lead | 2100 | | 4.7 | | mg/Kg | ☼ | 08/03/18 09:19 | 08/07/18 12:07 | 2 |

Client Sample ID: TP-20-6

Date Collected: 08/02/18 10:00

Date Received: 08/02/18 14:45

Lab Sample ID: 590-9053-3

Matrix: Solid

Percent Solids: 94.7

Method: 6010C - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------|------------|-----------|-----|-----|-------|---|----------------|----------------|---------|
| Lead | 110 | | 5.5 | | mg/Kg | ☼ | 08/03/18 09:19 | 08/07/18 12:30 | 2 |

Client Sample ID: TP-21-6

Date Collected: 08/02/18 10:10

Date Received: 08/02/18 14:45

Lab Sample ID: 590-9053-5

Matrix: Solid

Percent Solids: 94.8

Method: 6010C - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------|-----------|-----------|-----|-----|-------|---|----------------|----------------|---------|
| Lead | 27 | | 4.8 | | mg/Kg | ☼ | 08/03/18 09:19 | 08/07/18 12:33 | 2 |

Client Sample Results

Client: Hart Crowser, Inc.
Project/Site: Focused Phase II ESA

TestAmerica Job ID: 590-9053-1

Client Sample ID: TP-22-6

Date Collected: 08/02/18 10:20

Date Received: 08/02/18 14:45

Lab Sample ID: 590-9053-7

Matrix: Solid

Percent Solids: 95.5

Method: 6010C - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|-----|-----|-------|---|----------------|----------------|---------|
| Lead | 33 | | 4.8 | | mg/Kg | ☼ | 08/03/18 09:19 | 08/07/18 12:47 | 2 |

Client Sample ID: TP-23-6

Date Collected: 08/02/18 10:30

Date Received: 08/02/18 14:45

Lab Sample ID: 590-9053-9

Matrix: Solid

Percent Solids: 95.8

Method: 6010C - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|-----|-----|-------|---|----------------|----------------|---------|
| Lead | 37 | | 4.0 | | mg/Kg | ☼ | 08/03/18 09:19 | 08/07/18 12:50 | 2 |

Client Sample ID: TP-17-6

Date Collected: 08/02/18 10:50

Date Received: 08/02/18 14:45

Lab Sample ID: 590-9053-11

Matrix: Solid

Percent Solids: 96.0

Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------|--------|-----------|----|-----|-------|---|----------------|----------------|---------|
| Naphthalene | ND | | 10 | | ug/Kg | ☼ | 08/06/18 12:38 | 08/06/18 17:30 | 1 |
| 2-Methylnaphthalene | ND | | 10 | | ug/Kg | ☼ | 08/06/18 12:38 | 08/06/18 17:30 | 1 |
| 1-Methylnaphthalene | ND | | 10 | | ug/Kg | ☼ | 08/06/18 12:38 | 08/06/18 17:30 | 1 |
| Acenaphthylene | ND | | 10 | | ug/Kg | ☼ | 08/06/18 12:38 | 08/06/18 17:30 | 1 |
| Acenaphthene | 58 | | 10 | | ug/Kg | ☼ | 08/06/18 12:38 | 08/06/18 17:30 | 1 |
| Fluorene | 17 | | 10 | | ug/Kg | ☼ | 08/06/18 12:38 | 08/06/18 17:30 | 1 |
| Phenanthrene | 340 | | 10 | | ug/Kg | ☼ | 08/06/18 12:38 | 08/06/18 17:30 | 1 |
| Anthracene | 76 | | 10 | | ug/Kg | ☼ | 08/06/18 12:38 | 08/06/18 17:30 | 1 |
| Fluoranthene | 970 | | 10 | | ug/Kg | ☼ | 08/06/18 12:38 | 08/06/18 17:30 | 1 |
| Pyrene | 1200 | | 10 | | ug/Kg | ☼ | 08/06/18 12:38 | 08/06/18 17:30 | 1 |
| Benzo[a]anthracene | 780 | | 10 | | ug/Kg | ☼ | 08/06/18 12:38 | 08/06/18 17:30 | 1 |
| Chrysene | 1100 | | 10 | | ug/Kg | ☼ | 08/06/18 12:38 | 08/06/18 17:30 | 1 |
| Benzo[b]fluoranthene | 1300 | | 10 | | ug/Kg | ☼ | 08/06/18 12:38 | 08/06/18 17:30 | 1 |
| Benzo[k]fluoranthene | 450 | | 10 | | ug/Kg | ☼ | 08/06/18 12:38 | 08/06/18 17:30 | 1 |
| Benzo[a]pyrene | 1200 | | 10 | | ug/Kg | ☼ | 08/06/18 12:38 | 08/06/18 17:30 | 1 |
| Indeno[1,2,3-cd]pyrene | 740 | | 10 | | ug/Kg | ☼ | 08/06/18 12:38 | 08/06/18 17:30 | 1 |
| Dibenz(a,h)anthracene | 230 | | 10 | | ug/Kg | ☼ | 08/06/18 12:38 | 08/06/18 17:30 | 1 |
| Benzo[g,h,i]perylene | 910 | | 10 | | ug/Kg | ☼ | 08/06/18 12:38 | 08/06/18 17:30 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-------------------------|-----------|-----------|----------|----------------|----------------|---------|
| Nitrobenzene-d5 | 82 | | 23 - 120 | 08/06/18 12:38 | 08/06/18 17:30 | 1 |
| 2-Fluorobiphenyl (Surr) | 89 | | 38 - 123 | 08/06/18 12:38 | 08/06/18 17:30 | 1 |
| p-Terphenyl-d14 | 101 | | 68 - 136 | 08/06/18 12:38 | 08/06/18 17:30 | 1 |

Method: 6010C - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|-----|-----|-------|---|----------------|----------------|---------|
| Lead | 470 | | 4.7 | | mg/Kg | ☼ | 08/03/18 09:19 | 08/07/18 12:54 | 2 |

Client Sample ID: TP-15-6

Date Collected: 08/02/18 11:00

Date Received: 08/02/18 14:45

Lab Sample ID: 590-9053-13

Matrix: Solid

Percent Solids: 95.7

Method: 6010C - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|-----|-----|-------|---|----------------|----------------|---------|
| Lead | 100 | | 5.2 | | mg/Kg | ☼ | 08/03/18 09:19 | 08/07/18 12:58 | 2 |

TestAmerica Spokane

Client Sample Results

Client: Hart Crowser, Inc.
Project/Site: Focused Phase II ESA

TestAmerica Job ID: 590-9053-1

Client Sample ID: TP-13-6
Date Collected: 08/02/18 11:10
Date Received: 08/02/18 14:45

Lab Sample ID: 590-9053-15
Matrix: Solid
Percent Solids: 96.2

| Method: 6010C - Metals (ICP) | | | | | | | | | | |
|------------------------------|--------|-----------|-----|-----|-------|---|----------------|----------------|---------|--|
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac | |
| Lead | 110 | | 5.1 | | mg/Kg | ☼ | 08/03/18 09:19 | 08/07/18 13:01 | 2 | |

Client Sample ID: TP-11-6
Date Collected: 08/02/18 11:30
Date Received: 08/02/18 14:45

Lab Sample ID: 590-9053-17
Matrix: Solid
Percent Solids: 94.2

| Method: 6010C - Metals (ICP) | | | | | | | | | | |
|------------------------------|--------|-----------|-----|-----|-------|---|----------------|----------------|---------|--|
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac | |
| Lead | 72 | | 4.4 | | mg/Kg | ☼ | 08/03/18 09:19 | 08/07/18 13:05 | 2 | |

Client Sample ID: TP-10-6
Date Collected: 08/02/18 11:40
Date Received: 08/02/18 14:45

Lab Sample ID: 590-9053-19
Matrix: Solid
Percent Solids: 95.6

| Method: 6010C - Metals (ICP) | | | | | | | | | | |
|------------------------------|--------|-----------|-----|-----|-------|---|----------------|----------------|---------|--|
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac | |
| Lead | 140 | | 4.6 | | mg/Kg | ☼ | 08/03/18 09:19 | 08/07/18 13:09 | 2 | |

Client Sample ID: TP-1-6
Date Collected: 08/02/18 12:50
Date Received: 08/02/18 14:45

Lab Sample ID: 590-9053-21
Matrix: Solid
Percent Solids: 95.3

| Method: 6010C - Metals (ICP) | | | | | | | | | | |
|------------------------------|--------|-----------|-----|-----|-------|---|----------------|----------------|---------|--|
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac | |
| Lead | 25 | | 4.9 | | mg/Kg | ☼ | 08/03/18 09:19 | 08/07/18 13:12 | 2 | |

Client Sample ID: TP-9-6
Date Collected: 08/02/18 11:50
Date Received: 08/02/18 14:45

Lab Sample ID: 590-9053-23
Matrix: Solid
Percent Solids: 89.3

| Method: 6010C - Metals (ICP) | | | | | | | | | | |
|------------------------------|--------|-----------|-----|-----|-------|---|----------------|----------------|---------|--|
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac | |
| Lead | 75 | | 5.4 | | mg/Kg | ☼ | 08/03/18 09:19 | 08/07/18 13:16 | 2 | |

Client Sample ID: TP-8-6
Date Collected: 08/02/18 12:00
Date Received: 08/02/18 14:45

Lab Sample ID: 590-9053-25
Matrix: Solid
Percent Solids: 94.9

| Method: 6010C - Metals (ICP) | | | | | | | | | | |
|------------------------------|--------|-----------|-----|-----|-------|---|----------------|----------------|---------|--|
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac | |
| Lead | 73 | | 4.4 | | mg/Kg | ☼ | 08/03/18 09:19 | 08/07/18 13:20 | 2 | |

Client Sample ID: TP-7-6
Date Collected: 08/02/18 12:10
Date Received: 08/02/18 14:45

Lab Sample ID: 590-9053-27
Matrix: Solid
Percent Solids: 94.1

| Method: 6010C - Metals (ICP) | | | | | | | | | | |
|------------------------------|--------|-----------|-----|-----|-------|---|----------------|----------------|---------|--|
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac | |
| Lead | 44 | | 4.9 | | mg/Kg | ☼ | 08/03/18 09:19 | 08/07/18 13:33 | 2 | |

TestAmerica Spokane

Client Sample Results

Client: Hart Crowser, Inc.
Project/Site: Focused Phase II ESA

TestAmerica Job ID: 590-9053-1

Client Sample ID: TP-5-6

Date Collected: 08/02/18 12:20

Date Received: 08/02/18 14:45

Lab Sample ID: 590-9053-29

Matrix: Solid

Percent Solids: 96.6

Method: 6010C - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|-----|-----|-------|---|----------------|----------------|---------|
| Lead | 26 | | 4.0 | | mg/Kg | ☼ | 08/03/18 09:19 | 08/07/18 13:37 | 2 |

Client Sample ID: TP-4-6

Date Collected: 08/02/18 12:30

Date Received: 08/02/18 14:45

Lab Sample ID: 590-9053-31

Matrix: Solid

Percent Solids: 94.4

Method: 6010C - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|-----|-----|-------|---|----------------|----------------|---------|
| Lead | 23 | | 4.9 | | mg/Kg | ☼ | 08/03/18 09:19 | 08/07/18 13:41 | 2 |

Client Sample ID: TP-2-6

Date Collected: 08/02/18 12:40

Date Received: 08/02/18 14:45

Lab Sample ID: 590-9053-33

Matrix: Solid

Percent Solids: 95.3

Method: 6010C - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|-----|-----|-------|---|----------------|----------------|---------|
| Lead | 27 | | 5.0 | | mg/Kg | ☼ | 08/03/18 09:19 | 08/07/18 13:44 | 2 |

Client Sample ID: TP-18-6

Date Collected: 08/02/18 10:50

Date Received: 08/02/18 14:45

Lab Sample ID: 590-9053-35

Matrix: Solid

Percent Solids: 92.5

Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------|--------|-----------|-----|-----|-------|---|----------------|----------------|---------|
| Naphthalene | ND | | 100 | | ug/Kg | ☼ | 08/06/18 12:38 | 08/06/18 17:55 | 10 |
| 2-Methylnaphthalene | ND | | 100 | | ug/Kg | ☼ | 08/06/18 12:38 | 08/06/18 17:55 | 10 |
| 1-Methylnaphthalene | ND | | 100 | | ug/Kg | ☼ | 08/06/18 12:38 | 08/06/18 17:55 | 10 |
| Acenaphthylene | ND | | 100 | | ug/Kg | ☼ | 08/06/18 12:38 | 08/06/18 17:55 | 10 |
| Acenaphthene | 290 | | 100 | | ug/Kg | ☼ | 08/06/18 12:38 | 08/06/18 17:55 | 10 |
| Fluorene | ND | | 100 | | ug/Kg | ☼ | 08/06/18 12:38 | 08/06/18 17:55 | 10 |
| Phenanthrene | 1600 | | 100 | | ug/Kg | ☼ | 08/06/18 12:38 | 08/06/18 17:55 | 10 |
| Anthracene | 370 | | 100 | | ug/Kg | ☼ | 08/06/18 12:38 | 08/06/18 17:55 | 10 |
| Fluoranthene | 3900 | | 100 | | ug/Kg | ☼ | 08/06/18 12:38 | 08/06/18 17:55 | 10 |
| Pyrene | 4700 | | 100 | | ug/Kg | ☼ | 08/06/18 12:38 | 08/06/18 17:55 | 10 |
| Benzo[a]anthracene | 3100 | | 100 | | ug/Kg | ☼ | 08/06/18 12:38 | 08/06/18 17:55 | 10 |
| Chrysene | 4200 | | 100 | | ug/Kg | ☼ | 08/06/18 12:38 | 08/06/18 17:55 | 10 |
| Benzo[b]fluoranthene | 5200 | | 100 | | ug/Kg | ☼ | 08/06/18 12:38 | 08/06/18 17:55 | 10 |
| Benzo[k]fluoranthene | 2000 | | 100 | | ug/Kg | ☼ | 08/06/18 12:38 | 08/06/18 17:55 | 10 |
| Benzo[a]pyrene | 4600 | | 100 | | ug/Kg | ☼ | 08/06/18 12:38 | 08/06/18 17:55 | 10 |
| Indeno[1,2,3-cd]pyrene | 2800 | | 100 | | ug/Kg | ☼ | 08/06/18 12:38 | 08/06/18 17:55 | 10 |
| Dibenz(a,h)anthracene | 880 | | 100 | | ug/Kg | ☼ | 08/06/18 12:38 | 08/06/18 17:55 | 10 |
| Benzo[g,h,i]perylene | 3300 | | 100 | | ug/Kg | ☼ | 08/06/18 12:38 | 08/06/18 17:55 | 10 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-------------------------|-----------|-----------|----------|----------------|----------------|---------|
| Nitrobenzene-d5 | 78 | | 23 - 120 | 08/06/18 12:38 | 08/06/18 17:55 | 10 |
| 2-Fluorobiphenyl (Surr) | 86 | | 38 - 123 | 08/06/18 12:38 | 08/06/18 17:55 | 10 |
| p-Terphenyl-d14 | 96 | | 68 - 136 | 08/06/18 12:38 | 08/06/18 17:55 | 10 |

Method: 6010C - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|-----|-----|-------|---|----------------|----------------|---------|
| Lead | 620 | | 5.1 | | mg/Kg | ☼ | 08/03/18 09:19 | 08/07/18 13:48 | 2 |

TestAmerica Spokane

Client Sample Results

Client: Hart Crowser, Inc.
Project/Site: Focused Phase II ESA

TestAmerica Job ID: 590-9053-1

Client Sample ID: TP-16-6

Date Collected: 08/02/18 11:11

Date Received: 08/02/18 14:45

Lab Sample ID: 590-9053-37

Matrix: Solid

Percent Solids: 95.0

Method: 6010C - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|-----|-----|-------|---|----------------|----------------|---------|
| Lead | 41 | | 4.9 | | mg/Kg | ☼ | 08/03/18 09:19 | 08/07/18 13:52 | 2 |

Client Sample ID: TP-14-6

Date Collected: 08/02/18 11:30

Date Received: 08/02/18 14:45

Lab Sample ID: 590-9053-39

Matrix: Solid

Percent Solids: 94.8

Method: 6010C - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|-----|-----|-------|---|----------------|----------------|---------|
| Lead | 200 | | 4.4 | | mg/Kg | ☼ | 08/03/18 09:22 | 08/07/18 14:23 | 2 |

Client Sample ID: TP-12-6

Date Collected: 08/02/18 11:50

Date Received: 08/02/18 14:45

Lab Sample ID: 590-9053-41

Matrix: Solid

Percent Solids: 96.0

Method: 6010C - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|-----|-----|-------|---|----------------|----------------|---------|
| Lead | 560 | | 4.3 | | mg/Kg | ☼ | 08/03/18 09:22 | 08/07/18 14:27 | 2 |

Client Sample ID: TP-6-6

Date Collected: 08/02/18 12:25

Date Received: 08/02/18 14:45

Lab Sample ID: 590-9053-43

Matrix: Solid

Percent Solids: 96.6

Method: 6010C - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|-----|-----|-------|---|----------------|----------------|---------|
| Lead | 41 | | 5.2 | | mg/Kg | ☼ | 08/03/18 09:22 | 08/07/18 14:31 | 2 |

Client Sample ID: TP-3-6

Date Collected: 08/02/18 12:45

Date Received: 08/02/18 14:45

Lab Sample ID: 590-9053-45

Matrix: Solid

Percent Solids: 95.9

Method: 6010C - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|-----|-----|-------|---|----------------|----------------|---------|
| Lead | 26 | | 5.0 | | mg/Kg | ☼ | 08/03/18 09:22 | 08/07/18 14:35 | 2 |

QC Sample Results

Client: Hart Crowser, Inc.
Project/Site: Focused Phase II ESA

TestAmerica Job ID: 590-9053-1

Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM)

Lab Sample ID: MB 590-18127/1-A
Matrix: Solid
Analysis Batch: 18130

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 18127

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------|-----------|--------------|----|-----|-------|---|----------------|----------------|---------|
| Naphthalene | ND | | 10 | | ug/Kg | | 08/06/18 12:38 | 08/06/18 15:01 | 1 |
| 2-Methylnaphthalene | ND | | 10 | | ug/Kg | | 08/06/18 12:38 | 08/06/18 15:01 | 1 |
| 1-Methylnaphthalene | ND | | 10 | | ug/Kg | | 08/06/18 12:38 | 08/06/18 15:01 | 1 |
| Acenaphthylene | ND | | 10 | | ug/Kg | | 08/06/18 12:38 | 08/06/18 15:01 | 1 |
| Acenaphthene | ND | | 10 | | ug/Kg | | 08/06/18 12:38 | 08/06/18 15:01 | 1 |
| Fluorene | ND | | 10 | | ug/Kg | | 08/06/18 12:38 | 08/06/18 15:01 | 1 |
| Phenanthrene | ND | | 10 | | ug/Kg | | 08/06/18 12:38 | 08/06/18 15:01 | 1 |
| Anthracene | ND | | 10 | | ug/Kg | | 08/06/18 12:38 | 08/06/18 15:01 | 1 |
| Fluoranthene | ND | | 10 | | ug/Kg | | 08/06/18 12:38 | 08/06/18 15:01 | 1 |
| Pyrene | ND | | 10 | | ug/Kg | | 08/06/18 12:38 | 08/06/18 15:01 | 1 |
| Benzo[a]anthracene | ND | | 10 | | ug/Kg | | 08/06/18 12:38 | 08/06/18 15:01 | 1 |
| Chrysene | ND | | 10 | | ug/Kg | | 08/06/18 12:38 | 08/06/18 15:01 | 1 |
| Benzo[b]fluoranthene | ND | | 10 | | ug/Kg | | 08/06/18 12:38 | 08/06/18 15:01 | 1 |
| Benzo[k]fluoranthene | ND | | 10 | | ug/Kg | | 08/06/18 12:38 | 08/06/18 15:01 | 1 |
| Benzo[a]pyrene | ND | | 10 | | ug/Kg | | 08/06/18 12:38 | 08/06/18 15:01 | 1 |
| Indeno[1,2,3-cd]pyrene | ND | | 10 | | ug/Kg | | 08/06/18 12:38 | 08/06/18 15:01 | 1 |
| Dibenz(a,h)anthracene | ND | | 10 | | ug/Kg | | 08/06/18 12:38 | 08/06/18 15:01 | 1 |
| Benzo[g,h,i]perylene | ND | | 10 | | ug/Kg | | 08/06/18 12:38 | 08/06/18 15:01 | 1 |

| Surrogate | MB %Recovery | MB Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-------------------------|--------------|--------------|----------|----------------|----------------|---------|
| Nitrobenzene-d5 | 84 | | 23 - 120 | 08/06/18 12:38 | 08/06/18 15:01 | 1 |
| 2-Fluorobiphenyl (Surr) | 88 | | 38 - 123 | 08/06/18 12:38 | 08/06/18 15:01 | 1 |
| p-Terphenyl-d14 | 109 | | 68 - 136 | 08/06/18 12:38 | 08/06/18 15:01 | 1 |

Lab Sample ID: LCS 590-18127/2-A
Matrix: Solid
Analysis Batch: 18130

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 18127

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|------------------------|-------------|------------|---------------|-------|---|------|--------------|
| Naphthalene | 267 | 204 | | ug/Kg | | 76 | 41 - 121 |
| 2-Methylnaphthalene | 267 | 223 | | ug/Kg | | 84 | 39 - 132 |
| 1-Methylnaphthalene | 267 | 246 | | ug/Kg | | 92 | 46 - 131 |
| Acenaphthylene | 267 | 199 | | ug/Kg | | 75 | 56 - 123 |
| Acenaphthene | 267 | 207 | | ug/Kg | | 78 | 43 - 140 |
| Fluorene | 267 | 247 | | ug/Kg | | 92 | 54 - 131 |
| Phenanthrene | 267 | 222 | | ug/Kg | | 83 | 55 - 141 |
| Anthracene | 267 | 240 | | ug/Kg | | 90 | 60 - 129 |
| Fluoranthene | 267 | 247 | | ug/Kg | | 93 | 63 - 141 |
| Pyrene | 267 | 257 | | ug/Kg | | 96 | 62 - 139 |
| Benzo[a]anthracene | 267 | 257 | | ug/Kg | | 96 | 61 - 136 |
| Chrysene | 267 | 263 | | ug/Kg | | 99 | 57 - 144 |
| Benzo[b]fluoranthene | 267 | 251 | | ug/Kg | | 94 | 66 - 141 |
| Benzo[k]fluoranthene | 267 | 259 | | ug/Kg | | 97 | 63 - 150 |
| Benzo[a]pyrene | 267 | 249 | | ug/Kg | | 94 | 60 - 133 |
| Indeno[1,2,3-cd]pyrene | 267 | 252 | | ug/Kg | | 94 | 55 - 142 |
| Dibenz(a,h)anthracene | 267 | 256 | | ug/Kg | | 96 | 60 - 150 |
| Benzo[g,h,i]perylene | 267 | 262 | | ug/Kg | | 98 | 58 - 147 |

TestAmerica Spokane

QC Sample Results

Client: Hart Crowser, Inc.
Project/Site: Focused Phase II ESA

TestAmerica Job ID: 590-9053-1

Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Lab Sample ID: LCS 590-18127/2-A
Matrix: Solid
Analysis Batch: 18130

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 18127

| Surrogate | LCS %Recovery | LCS Qualifier | Limits |
|-------------------------|---------------|---------------|----------|
| Nitrobenzene-d5 | 89 | | 23 - 120 |
| 2-Fluorobiphenyl (Surr) | 92 | | 38 - 123 |
| p-Terphenyl-d14 | 113 | | 68 - 136 |

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 590-18093/2-A
Matrix: Solid
Analysis Batch: 18143

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 18093

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|-----------|--------------|-----|-----|-------|---|----------------|----------------|---------|
| Lead | ND | | 3.0 | | mg/Kg | | 08/03/18 09:19 | 08/06/18 20:11 | 1 |

Lab Sample ID: LCS 590-18093/1-A
Matrix: Solid
Analysis Batch: 18143

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 18093

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---------|-------------|------------|---------------|-------|---|------|--------------|
| Lead | 50.0 | 49.9 | | mg/Kg | | 100 | 80 - 120 |

Lab Sample ID: 590-9053-1 MS
Matrix: Solid
Analysis Batch: 18163

Client Sample ID: TP-19-6
Prep Type: Total/NA
Prep Batch: 18093

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---------|---------------|------------------|-------------|-----------|--------------|-------|---|------|--------------|
| Lead | 2100 | | 50.4 | 1590 | 4 | mg/Kg | ☼ | -951 | 75 - 125 |

Lab Sample ID: 590-9053-1 MSD
Matrix: Solid
Analysis Batch: 18163

Client Sample ID: TP-19-6
Prep Type: Total/NA
Prep Batch: 18093

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---------|---------------|------------------|-------------|------------|---------------|-------|---|------|--------------|-----|-----------|
| Lead | 2100 | | 51.9 | 1720 | 4 | mg/Kg | ☼ | -663 | 75 - 125 | 8 | 20 |

Lab Sample ID: 590-9053-1 DU
Matrix: Solid
Analysis Batch: 18163

Client Sample ID: TP-19-6
Prep Type: Total/NA
Prep Batch: 18093

| Analyte | Sample Result | Sample Qualifier | DU Result | DU Qualifier | Unit | D | RPD | RPD Limit |
|---------|---------------|------------------|-----------|--------------|-------|---|-----|-----------|
| Lead | 2100 | | 1950 | | mg/Kg | ☼ | 6 | 20 |

Lab Sample ID: MB 590-18095/2-A
Matrix: Solid
Analysis Batch: 18143

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 18095

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|-----------|--------------|-----|-----|-------|---|----------------|----------------|---------|
| Lead | ND | | 3.0 | | mg/Kg | | 08/03/18 09:22 | 08/06/18 22:08 | 1 |

TestAmerica Spokane

QC Sample Results

Client: Hart Crowser, Inc.
Project/Site: Focused Phase II ESA

TestAmerica Job ID: 590-9053-1

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: LCS 590-18095/1-A
Matrix: Solid
Analysis Batch: 18143

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 18095

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---------|-------------|------------|---------------|-------|---|------|--------------|
| Lead | 50.0 | 51.6 | | mg/Kg | | 103 | 80 - 120 |

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12

Lab Chronicle

Client: Hart Crowser, Inc.
Project/Site: Focused Phase II ESA

TestAmerica Job ID: 590-9053-1

Client Sample ID: TP-19-6

Date Collected: 08/02/18 09:50

Date Received: 08/02/18 14:45

Lab Sample ID: 590-9053-1

Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | Moisture | | 1 | | | 18106 | 08/03/18 15:46 | CWD | TAL SPK |

Client Sample ID: TP-19-6

Date Collected: 08/02/18 09:50

Date Received: 08/02/18 14:45

Lab Sample ID: 590-9053-1

Matrix: Solid

Percent Solids: 93.5

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 3550C | | | 15.36 g | 2 mL | 18127 | 08/06/18 12:38 | MO | TAL SPK |
| Total/NA | Analysis | 8270D SIM | | 10 | | | 18130 | 08/06/18 17:05 | NMI | TAL SPK |
| Total/NA | Prep | 3050B | | | 1.36 g | 50 mL | 18093 | 08/03/18 09:19 | JSP | TAL SPK |
| Total/NA | Analysis | 6010C | | 2 | | | 18163 | 08/07/18 12:07 | JSP | TAL SPK |

Client Sample ID: TP-20-6

Date Collected: 08/02/18 10:00

Date Received: 08/02/18 14:45

Lab Sample ID: 590-9053-3

Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | Moisture | | 1 | | | 18106 | 08/03/18 15:46 | CWD | TAL SPK |

Client Sample ID: TP-20-6

Date Collected: 08/02/18 10:00

Date Received: 08/02/18 14:45

Lab Sample ID: 590-9053-3

Matrix: Solid

Percent Solids: 94.7

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 3050B | | | 1.16 g | 50 mL | 18093 | 08/03/18 09:19 | JSP | TAL SPK |
| Total/NA | Analysis | 6010C | | 2 | | | 18163 | 08/07/18 12:30 | JSP | TAL SPK |

Client Sample ID: TP-21-6

Date Collected: 08/02/18 10:10

Date Received: 08/02/18 14:45

Lab Sample ID: 590-9053-5

Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | Moisture | | 1 | | | 18106 | 08/03/18 15:46 | CWD | TAL SPK |

Client Sample ID: TP-21-6

Date Collected: 08/02/18 10:10

Date Received: 08/02/18 14:45

Lab Sample ID: 590-9053-5

Matrix: Solid

Percent Solids: 94.8

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 3050B | | | 1.31 g | 50 mL | 18093 | 08/03/18 09:19 | JSP | TAL SPK |
| Total/NA | Analysis | 6010C | | 2 | | | 18163 | 08/07/18 12:33 | JSP | TAL SPK |

TestAmerica Spokane

Lab Chronicle

Client: Hart Crowser, Inc.
Project/Site: Focused Phase II ESA

TestAmerica Job ID: 590-9053-1

Client Sample ID: TP-22-6

Date Collected: 08/02/18 10:20

Date Received: 08/02/18 14:45

Lab Sample ID: 590-9053-7

Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | Moisture | | 1 | | | 18106 | 08/03/18 15:46 | CWD | TAL SPK |

Client Sample ID: TP-22-6

Date Collected: 08/02/18 10:20

Date Received: 08/02/18 14:45

Lab Sample ID: 590-9053-7

Matrix: Solid

Percent Solids: 95.5

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 3050B | | | 1.31 g | 50 mL | 18093 | 08/03/18 09:19 | JSP | TAL SPK |
| Total/NA | Analysis | 6010C | | 2 | | | 18163 | 08/07/18 12:47 | JSP | TAL SPK |

Client Sample ID: TP-23-6

Date Collected: 08/02/18 10:30

Date Received: 08/02/18 14:45

Lab Sample ID: 590-9053-9

Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | Moisture | | 1 | | | 18106 | 08/03/18 15:46 | CWD | TAL SPK |

Client Sample ID: TP-23-6

Date Collected: 08/02/18 10:30

Date Received: 08/02/18 14:45

Lab Sample ID: 590-9053-9

Matrix: Solid

Percent Solids: 95.8

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 3050B | | | 1.55 g | 50 mL | 18093 | 08/03/18 09:19 | JSP | TAL SPK |
| Total/NA | Analysis | 6010C | | 2 | | | 18163 | 08/07/18 12:50 | JSP | TAL SPK |

Client Sample ID: TP-17-6

Date Collected: 08/02/18 10:50

Date Received: 08/02/18 14:45

Lab Sample ID: 590-9053-11

Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | Moisture | | 1 | | | 18106 | 08/03/18 15:46 | CWD | TAL SPK |

Client Sample ID: TP-17-6

Date Collected: 08/02/18 10:50

Date Received: 08/02/18 14:45

Lab Sample ID: 590-9053-11

Matrix: Solid

Percent Solids: 96.0

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 3550C | | | 15.66 g | 2 mL | 18127 | 08/06/18 12:38 | MO | TAL SPK |
| Total/NA | Analysis | 8270D SIM | | 1 | | | 18130 | 08/06/18 17:30 | NMI | TAL SPK |
| Total/NA | Prep | 3050B | | | 1.32 g | 50 mL | 18093 | 08/03/18 09:19 | JSP | TAL SPK |
| Total/NA | Analysis | 6010C | | 2 | | | 18163 | 08/07/18 12:54 | JSP | TAL SPK |

TestAmerica Spokane

Lab Chronicle

Client: Hart Crowser, Inc.
Project/Site: Focused Phase II ESA

TestAmerica Job ID: 590-9053-1

Client Sample ID: TP-15-6

Date Collected: 08/02/18 11:00

Date Received: 08/02/18 14:45

Lab Sample ID: 590-9053-13

Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | Moisture | | 1 | | | 18106 | 08/03/18 15:46 | CWD | TAL SPK |

Client Sample ID: TP-15-6

Date Collected: 08/02/18 11:00

Date Received: 08/02/18 14:45

Lab Sample ID: 590-9053-13

Matrix: Solid

Percent Solids: 95.7

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 3050B | | | 1.20 g | 50 mL | 18093 | 08/03/18 09:19 | JSP | TAL SPK |
| Total/NA | Analysis | 6010C | | 2 | | | 18163 | 08/07/18 12:58 | JSP | TAL SPK |

Client Sample ID: TP-13-6

Date Collected: 08/02/18 11:10

Date Received: 08/02/18 14:45

Lab Sample ID: 590-9053-15

Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | Moisture | | 1 | | | 18106 | 08/03/18 15:46 | CWD | TAL SPK |

Client Sample ID: TP-13-6

Date Collected: 08/02/18 11:10

Date Received: 08/02/18 14:45

Lab Sample ID: 590-9053-15

Matrix: Solid

Percent Solids: 96.2

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 3050B | | | 1.23 g | 50 mL | 18093 | 08/03/18 09:19 | JSP | TAL SPK |
| Total/NA | Analysis | 6010C | | 2 | | | 18163 | 08/07/18 13:01 | JSP | TAL SPK |

Client Sample ID: TP-11-6

Date Collected: 08/02/18 11:30

Date Received: 08/02/18 14:45

Lab Sample ID: 590-9053-17

Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | Moisture | | 1 | | | 18106 | 08/03/18 15:46 | CWD | TAL SPK |

Client Sample ID: TP-11-6

Date Collected: 08/02/18 11:30

Date Received: 08/02/18 14:45

Lab Sample ID: 590-9053-17

Matrix: Solid

Percent Solids: 94.2

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 3050B | | | 1.44 g | 50 mL | 18093 | 08/03/18 09:19 | JSP | TAL SPK |
| Total/NA | Analysis | 6010C | | 2 | | | 18163 | 08/07/18 13:05 | JSP | TAL SPK |

TestAmerica Spokane

Lab Chronicle

Client: Hart Crowser, Inc.
Project/Site: Focused Phase II ESA

TestAmerica Job ID: 590-9053-1

Client Sample ID: TP-10-6

Date Collected: 08/02/18 11:40

Date Received: 08/02/18 14:45

Lab Sample ID: 590-9053-19

Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | Moisture | | 1 | | | 18106 | 08/03/18 15:46 | CWD | TAL SPK |

Client Sample ID: TP-10-6

Date Collected: 08/02/18 11:40

Date Received: 08/02/18 14:45

Lab Sample ID: 590-9053-19

Matrix: Solid

Percent Solids: 95.6

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 3050B | | | 1.36 g | 50 mL | 18093 | 08/03/18 09:19 | JSP | TAL SPK |
| Total/NA | Analysis | 6010C | | 2 | | | 18163 | 08/07/18 13:09 | JSP | TAL SPK |

Client Sample ID: TP-1-6

Date Collected: 08/02/18 12:50

Date Received: 08/02/18 14:45

Lab Sample ID: 590-9053-21

Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | Moisture | | 1 | | | 18106 | 08/03/18 15:46 | CWD | TAL SPK |

Client Sample ID: TP-1-6

Date Collected: 08/02/18 12:50

Date Received: 08/02/18 14:45

Lab Sample ID: 590-9053-21

Matrix: Solid

Percent Solids: 95.3

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 3050B | | | 1.28 g | 50 mL | 18093 | 08/03/18 09:19 | JSP | TAL SPK |
| Total/NA | Analysis | 6010C | | 2 | | | 18163 | 08/07/18 13:12 | JSP | TAL SPK |

Client Sample ID: TP-9-6

Date Collected: 08/02/18 11:50

Date Received: 08/02/18 14:45

Lab Sample ID: 590-9053-23

Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | Moisture | | 1 | | | 18106 | 08/03/18 15:46 | CWD | TAL SPK |

Client Sample ID: TP-9-6

Date Collected: 08/02/18 11:50

Date Received: 08/02/18 14:45

Lab Sample ID: 590-9053-23

Matrix: Solid

Percent Solids: 89.3

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 3050B | | | 1.25 g | 50 mL | 18093 | 08/03/18 09:19 | JSP | TAL SPK |
| Total/NA | Analysis | 6010C | | 2 | | | 18163 | 08/07/18 13:16 | JSP | TAL SPK |

TestAmerica Spokane

Lab Chronicle

Client: Hart Crowser, Inc.
Project/Site: Focused Phase II ESA

TestAmerica Job ID: 590-9053-1

Client Sample ID: TP-8-6

Date Collected: 08/02/18 12:00

Date Received: 08/02/18 14:45

Lab Sample ID: 590-9053-25

Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | Moisture | | 1 | | | 18106 | 08/03/18 15:46 | CWD | TAL SPK |

Client Sample ID: TP-8-6

Date Collected: 08/02/18 12:00

Date Received: 08/02/18 14:45

Lab Sample ID: 590-9053-25

Matrix: Solid

Percent Solids: 94.9

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 3050B | | | 1.45 g | 50 mL | 18093 | 08/03/18 09:19 | JSP | TAL SPK |
| Total/NA | Analysis | 6010C | | 2 | | | 18163 | 08/07/18 13:20 | JSP | TAL SPK |

Client Sample ID: TP-7-6

Date Collected: 08/02/18 12:10

Date Received: 08/02/18 14:45

Lab Sample ID: 590-9053-27

Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | Moisture | | 1 | | | 18106 | 08/03/18 15:46 | CWD | TAL SPK |

Client Sample ID: TP-7-6

Date Collected: 08/02/18 12:10

Date Received: 08/02/18 14:45

Lab Sample ID: 590-9053-27

Matrix: Solid

Percent Solids: 94.1

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 3050B | | | 1.30 g | 50 mL | 18093 | 08/03/18 09:19 | JSP | TAL SPK |
| Total/NA | Analysis | 6010C | | 2 | | | 18163 | 08/07/18 13:33 | JSP | TAL SPK |

Client Sample ID: TP-5-6

Date Collected: 08/02/18 12:20

Date Received: 08/02/18 14:45

Lab Sample ID: 590-9053-29

Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | Moisture | | 1 | | | 18106 | 08/03/18 15:46 | CWD | TAL SPK |

Client Sample ID: TP-5-6

Date Collected: 08/02/18 12:20

Date Received: 08/02/18 14:45

Lab Sample ID: 590-9053-29

Matrix: Solid

Percent Solids: 96.6

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 3050B | | | 1.56 g | 50 mL | 18093 | 08/03/18 09:19 | JSP | TAL SPK |
| Total/NA | Analysis | 6010C | | 2 | | | 18163 | 08/07/18 13:37 | JSP | TAL SPK |

TestAmerica Spokane

Lab Chronicle

Client: Hart Crowser, Inc.
Project/Site: Focused Phase II ESA

TestAmerica Job ID: 590-9053-1

Client Sample ID: TP-4-6

Date Collected: 08/02/18 12:30

Date Received: 08/02/18 14:45

Lab Sample ID: 590-9053-31

Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | Moisture | | 1 | | | 18106 | 08/03/18 15:46 | CWD | TAL SPK |

Client Sample ID: TP-4-6

Date Collected: 08/02/18 12:30

Date Received: 08/02/18 14:45

Lab Sample ID: 590-9053-31

Matrix: Solid

Percent Solids: 94.4

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 3050B | | | 1.30 g | 50 mL | 18093 | 08/03/18 09:19 | JSP | TAL SPK |
| Total/NA | Analysis | 6010C | | 2 | | | 18163 | 08/07/18 13:41 | JSP | TAL SPK |

Client Sample ID: TP-2-6

Date Collected: 08/02/18 12:40

Date Received: 08/02/18 14:45

Lab Sample ID: 590-9053-33

Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | Moisture | | 1 | | | 18106 | 08/03/18 15:46 | CWD | TAL SPK |

Client Sample ID: TP-2-6

Date Collected: 08/02/18 12:40

Date Received: 08/02/18 14:45

Lab Sample ID: 590-9053-33

Matrix: Solid

Percent Solids: 95.3

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 3050B | | | 1.25 g | 50 mL | 18093 | 08/03/18 09:19 | JSP | TAL SPK |
| Total/NA | Analysis | 6010C | | 2 | | | 18163 | 08/07/18 13:44 | JSP | TAL SPK |

Client Sample ID: TP-18-6

Date Collected: 08/02/18 10:50

Date Received: 08/02/18 14:45

Lab Sample ID: 590-9053-35

Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | Moisture | | 1 | | | 18106 | 08/03/18 15:46 | CWD | TAL SPK |

Client Sample ID: TP-18-6

Date Collected: 08/02/18 10:50

Date Received: 08/02/18 14:45

Lab Sample ID: 590-9053-35

Matrix: Solid

Percent Solids: 92.5

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 3550C | | | 15.60 g | 2 mL | 18127 | 08/06/18 12:38 | MO | TAL SPK |
| Total/NA | Analysis | 8270D SIM | | 10 | | | 18130 | 08/06/18 17:55 | NMI | TAL SPK |
| Total/NA | Prep | 3050B | | | 1.26 g | 50 mL | 18093 | 08/03/18 09:19 | JSP | TAL SPK |
| Total/NA | Analysis | 6010C | | 2 | | | 18163 | 08/07/18 13:48 | JSP | TAL SPK |

TestAmerica Spokane

Lab Chronicle

Client: Hart Crowser, Inc.
Project/Site: Focused Phase II ESA

TestAmerica Job ID: 590-9053-1

Client Sample ID: TP-16-6

Date Collected: 08/02/18 11:11

Date Received: 08/02/18 14:45

Lab Sample ID: 590-9053-37

Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | Moisture | | 1 | | | 18106 | 08/03/18 15:46 | CWD | TAL SPK |

Client Sample ID: TP-16-6

Date Collected: 08/02/18 11:11

Date Received: 08/02/18 14:45

Lab Sample ID: 590-9053-37

Matrix: Solid

Percent Solids: 95.0

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 3050B | | | 1.30 g | 50 mL | 18093 | 08/03/18 09:19 | JSP | TAL SPK |
| Total/NA | Analysis | 6010C | | 2 | | | 18163 | 08/07/18 13:52 | JSP | TAL SPK |

Client Sample ID: TP-14-6

Date Collected: 08/02/18 11:30

Date Received: 08/02/18 14:45

Lab Sample ID: 590-9053-39

Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | Moisture | | 1 | | | 18106 | 08/03/18 15:46 | CWD | TAL SPK |

Client Sample ID: TP-14-6

Date Collected: 08/02/18 11:30

Date Received: 08/02/18 14:45

Lab Sample ID: 590-9053-39

Matrix: Solid

Percent Solids: 94.8

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 3050B | | | 1.45 g | 50 mL | 18095 | 08/03/18 09:22 | JSP | TAL SPK |
| Total/NA | Analysis | 6010C | | 2 | | | 18163 | 08/07/18 14:23 | JSP | TAL SPK |

Client Sample ID: TP-12-6

Date Collected: 08/02/18 11:50

Date Received: 08/02/18 14:45

Lab Sample ID: 590-9053-41

Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | Moisture | | 1 | | | 18106 | 08/03/18 15:46 | CWD | TAL SPK |

Client Sample ID: TP-12-6

Date Collected: 08/02/18 11:50

Date Received: 08/02/18 14:45

Lab Sample ID: 590-9053-41

Matrix: Solid

Percent Solids: 96.0

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 3050B | | | 1.44 g | 50 mL | 18095 | 08/03/18 09:22 | JSP | TAL SPK |
| Total/NA | Analysis | 6010C | | 2 | | | 18163 | 08/07/18 14:27 | JSP | TAL SPK |

TestAmerica Spokane

Lab Chronicle

Client: Hart Crowser, Inc.
Project/Site: Focused Phase II ESA

TestAmerica Job ID: 590-9053-1

Client Sample ID: TP-6-6

Date Collected: 08/02/18 12:25

Date Received: 08/02/18 14:45

Lab Sample ID: 590-9053-43

Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | Moisture | | 1 | | | 18106 | 08/03/18 15:46 | CWD | TAL SPK |

Client Sample ID: TP-6-6

Date Collected: 08/02/18 12:25

Date Received: 08/02/18 14:45

Lab Sample ID: 590-9053-43

Matrix: Solid

Percent Solids: 96.6

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 3050B | | | 1.19 g | 50 mL | 18095 | 08/03/18 09:22 | JSP | TAL SPK |
| Total/NA | Analysis | 6010C | | 2 | | | 18163 | 08/07/18 14:31 | JSP | TAL SPK |

Client Sample ID: TP-3-6

Date Collected: 08/02/18 12:45

Date Received: 08/02/18 14:45

Lab Sample ID: 590-9053-45

Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | Moisture | | 1 | | | 18106 | 08/03/18 15:46 | CWD | TAL SPK |

Client Sample ID: TP-3-6

Date Collected: 08/02/18 12:45

Date Received: 08/02/18 14:45

Lab Sample ID: 590-9053-45

Matrix: Solid

Percent Solids: 95.9

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 3050B | | | 1.26 g | 50 mL | 18095 | 08/03/18 09:22 | JSP | TAL SPK |
| Total/NA | Analysis | 6010C | | 2 | | | 18163 | 08/07/18 14:35 | JSP | TAL SPK |

Laboratory References:

TAL SPK = TestAmerica Spokane, 11922 East 1st Ave, Spokane, WA 99206, TEL (509)924-9200

Accreditation/Certification Summary

Client: Hart Crowser, Inc.
Project/Site: Focused Phase II ESA

TestAmerica Job ID: 590-9053-1

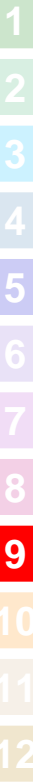
Laboratory: TestAmerica Spokane

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

| Authority | Program | EPA Region | Identification Number | Expiration Date |
|------------|---------------|------------|-----------------------|-----------------|
| Washington | State Program | 10 | C569 | 01-06-19 |

The following analytes are included in this report, but accreditation/certification is not offered by the governing authority:

| Analysis Method | Prep Method | Matrix | Analyte |
|-----------------|-------------|--------|------------------|
| Moisture | | Solid | Percent Moisture |
| Moisture | | Solid | Percent Solids |



Method Summary

Client: Hart Crowser, Inc.
Project/Site: Focused Phase II ESA

TestAmerica Job ID: 590-9053-1

| Method | Method Description | Protocol | Laboratory |
|-----------|--|----------|------------|
| 8270D SIM | Semivolatile Organic Compounds (GC/MS SIM) | SW846 | TAL SPK |
| 6010C | Metals (ICP) | SW846 | TAL SPK |
| Moisture | Percent Moisture | EPA | TAL SPK |
| 3050B | Preparation, Metals | SW846 | TAL SPK |
| 3550C | Ultrasonic Extraction | SW846 | TAL SPK |

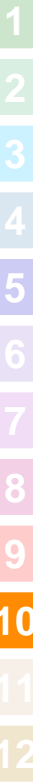
Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

TAL SPK = TestAmerica Spokane, 11922 East 1st Ave, Spokane, WA 99206, TEL (509)924-9200



- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12

Sample Custody Record

Samples Shipped to: TEST AMERICA



Page 3 of 3

Hart Crowsner, Inc.
3131 Elliott Avenue, Suite 602
Seattle, Washington 98122
Office: 206.324.9530 • Fax 206.328.5586

JOB CUSD LAB NUMBER _____

PROJECT NAME FOCUSED PHASE II ESA

HART CROWSER CONTACT J HANEY

SAMPLED BY: W. MEDWATER

REQUESTED ANALYSIS _____

NO. OF CONTAINERS _____

OBSERVATIONS/COMMENTS/
COMPOSITING INSTRUCTIONS _____

| LAB NO. | SAMPLE ID | DESCRIPTION | DATE | TIME | MATRIX | LEAD (TOTAL) | PAHS |
|---------|-----------|-------------|--------|------|--------|--------------|------|
| | TP-9-6 | | 8/2/18 | 1150 | Soil | X | |
| | TP-9-12 | | | 1151 | | X | |
| | TP-8-6 | | | 1200 | | X | |
| | TP-8-12 | | | 1201 | | X | |
| | TP-7-6 | | | 1210 | | X | |
| | TP-7-12 | | | 1211 | | X | |
| | TP-5-6 | | | 1220 | | X | |
| | TP-5-12 | | | 1221 | | X | |
| | TP-4-6 | | | 1230 | | X | |
| | TP-4-12 | | | 1231 | | X | |
| | TP-2-6 | | | 1246 | | X | |
| | TP-2-12 | | | 1241 | | X | |

RELINQUISHED BY: [Signature] DATE: 8/2/18

SIGNATURE: [Signature] TIME: 8/2/18

PRINT NAME: J HANEY

COMPANY: HRC

RECEIVED BY: [Signature] DATE: 8/2/18

SIGNATURE: [Signature] TIME: 8/2/18

PRINT NAME: J HANEY

COMPANY: HRC

RELINQUISHED BY: [Signature] DATE: 8/2/18

SIGNATURE: [Signature] TIME: 8/2/18

PRINT NAME: J HANEY

COMPANY: HRC

RECEIVED BY: [Signature] DATE: 8/2/18

SIGNATURE: [Signature] TIME: 8/2/18

PRINT NAME: J HANEY

COMPANY: HRC

COOLER NO.: _____ STORAGE LOCATION: _____

SPECIAL SHIPMENT HANDLING OR STORAGE REQUIREMENTS: _____

TURNAROUND TIME: 24 HOURS 1 WEEK

48 HOURS STANDARD

72 HOURS OTHER _____

SAMPLE RECEIPT INFORMATION

CUSTODY SEALS: YES NO N/A

GOOD CONDITION: YES NO

TEMPERATURE: _____

SHIPMENT METHOD: HAND CURRIER OVERNIGHT

White to Lab Yellow to Project Manager Pink to Sample Custodian

7.6 c IROPY

Sample Custody Record

Samples Shipped to: TEST AMERICA, SPOKANE



Hart Crowsner, Inc.
3131 Elliott Avenue, Suite 602
Seattle, Washington 98122
Office: 206.324.9530 • Fax 206.328.5588

JOB CVSD LAB NUMBER _____
 PROJECT NAME FOCUSED PHASE II ESA
 HART CROWSER CONTACT JOHN HAWLEY
 SAMPLED BY: JTH

| LAB NO. | SAMPLE ID | DESCRIPTION | DATE | TIME | MATRIX | REQUESTED ANALYSIS | NO. OF CONTAINERS | OBSERVATIONS/COMMENTS/ COMPOSITING INSTRUCTIONS |
|----------------------------------|-----------|-------------|----------------------------------|---------|---------|---|----------------------------|--|
| | | | | | | LEAD(TOTAL) PAN | | |
| | TP-18-6 | Soil | 8/2/18 | 10:50 | S | | 1 | |
| | TP-18-12 | | | 10:54 | | | 1 | Hold |
| | TP-16-6 | | | 11:11 | | | 1 | Hold |
| | TP-16-12 | | | 11:15 | | | 1 | Hold |
| | TP-14-6 | | | 11:30 | | | 1 | Hold |
| | TP-14-12 | | | 11:35 | | | 1 | Hold |
| | TP-12-6 | | | 11:50 | | | 1 | Hold |
| | TP-12-12 | | | 11:55 | | | 1 | Hold |
| | TP-6-6 | | | 12:25 | | | 1 | Hold |
| | TP-6-12 | | | 12:30 | | | 1 | Hold |
| | TP-3-6 | | | 12:45 | | | 1 | Hold |
| | TP-3-12 | | | 12:50 | | | 1 | Hold |
| RELINQUISHED BY | | DATE | RECEIVED BY | DATE | DATE | SPECIAL SHIPMENT HANDLING OR STORAGE REQUIREMENTS: | TOTAL NUMBER OF CONTAINERS | |
| <u>John Hawley</u> | | 8/2/18 | <u>John Hawley</u> | 8/2/18 | 8/2/18 | | 12 | |
| PRINT NAME <u>John Hawley</u> | | TIME | PRINT NAME <u>John Hawley</u> | TIME | TIME | | | |
| COMPANY | | 14:44 | COMPANY <u>HA</u> | COMPANY | COMPANY | | | |
| RELINQUISHED BY | | DATE | RECEIVED BY | DATE | DATE | COOLER NO.: | STORAGE LOCATION: | |
| | | | | | | | | |
| SIGNATURE | | TIME | SIGNATURE | TIME | TIME | See Lab Work Order No. _____ for Other Contract Requirements | | |
| PRINT NAME | | | PRINT NAME | | | | | |
| COMPANY | | | COMPANY | | | | | |

Write to Lab Yellow to Project Manager Pink to Sample Custodian J. C. Steacy

Login Sample Receipt Checklist

Client: Hart Crowser, Inc.

Job Number: 590-9053-1

Login Number: 9053

List Source: TestAmerica Spokane

List Number: 1

Creator: Kratz, Sheila J

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

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

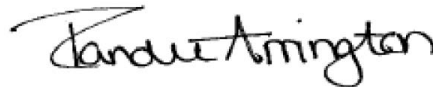
ANALYTICAL REPORT

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

TestAmerica Job ID: 590-9053-2
Client Project/Site: Focused Phase II ESA

For:
Hart Crowser, Inc.
505 West Riverside Avenue, Suite 205
Spokane, Washington 99201

Attn: John Haney



Authorized for release by:
8/10/2018 4:40:38 PM

Randee Arrington, Project Manager II
(509)924-9200
randee.arrington@testamericainc.com

LINKS

Review your project
results through
TotalAccess

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.

1

2

3

4

5

6

7

8

9

10

11

12



Table of Contents

| | |
|---------------------------------|----|
| Cover Page | 1 |
| Table of Contents | 2 |
| Case Narrative | 3 |
| Sample Summary | 4 |
| Definitions | 5 |
| Client Sample Results | 6 |
| QC Sample Results | 9 |
| Chronicle | 11 |
| Certification Summary | 13 |
| Method Summary | 14 |
| Chain of Custody | 15 |
| Receipt Checklists | 19 |

Case Narrative

Client: Hart Crowser, Inc.
Project/Site: Focused Phase II ESA

TestAmerica Job ID: 590-9053-2

Job ID: 590-9053-2

Laboratory: TestAmerica Spokane

Narrative

Receipt

The samples were received on 8/2/2018 2:45 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 7.6° C.

Receipt Exceptions

The following samples were received at the laboratory outside the required temperature criteria: TP-19-6 (590-9053-1), TP-19-12 (590-9053-2), TP-20-6 (590-9053-3), TP-20-12 (590-9053-4), TP-21-6 (590-9053-5), TP-21-12 (590-9053-6), TP-22-6 (590-9053-7), TP-22-12 (590-9053-8), TP-23-6 (590-9053-9), TP-23-12 (590-9053-10), TP-17-6 (590-9053-11), TP-17-12 (590-9053-12), TP-15-6 (590-9053-13), TP-15-12 (590-9053-14), TP-13-6 (590-9053-15), TP-13-12 (590-9053-16), TP-11-6 (590-9053-17), TP-11-12 (590-9053-18), TP-10-6 (590-9053-19), TP-10-12 (590-9053-20), TP-1-6 (590-9053-21), TP-1-12 (590-9053-22), TP-9-6 (590-9053-23), TP-9-12 (590-9053-24), TP-8-6 (590-9053-25), TP-8-12 (590-9053-26), TP-7-6 (590-9053-27), TP-7-12 (590-9053-28), TP-5-6 (590-9053-29), TP-5-12 (590-9053-30), TP-4-6 (590-9053-31), TP-4-12 (590-9053-32), TP-2-6 (590-9053-33), TP-2-12 (590-9053-34), TP-18-6 (590-9053-35), TP-18-12 (590-9053-36), TP-16-6 (590-9053-37), TP-16-12 (590-9053-38), TP-14-6 (590-9053-39), TP-14-12 (590-9053-40), TP-12-6 (590-9053-41), TP-12-12 (590-9053-42), TP-6-6 (590-9053-43), TP-6-12 (590-9053-44), TP-3-6 (590-9053-45) and TP-3-12 (590-9053-46). The samples are considered acceptable since they were collected and submitted to the laboratory on the same day and there is evidence that the chilling process has begun.

The following samples were activated for 6010C Lead and 8270 SIM PAHs analysis by the client on 08/10/18: TP-19-12 (590-9053-2), TP-17-12 (590-9053-12), TP-18-12 (590-9053-36) and TP-12-12 (590-9053-42). This analysis was not originally requested on the chain-of-custody (COC).

GC/MS Semi VOA

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

Metals

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

General Chemistry

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

Organic Prep

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

Sample Summary

Client: Hart Crowser, Inc.
Project/Site: Focused Phase II ESA

TestAmerica Job ID: 590-9053-2

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received |
|---------------|------------------|--------|----------------|----------------|
| 590-9053-2 | TP-19-12 | Solid | 08/02/18 09:51 | 08/02/18 14:45 |
| 590-9053-12 | TP-17-12 | Solid | 08/02/18 10:51 | 08/02/18 14:45 |
| 590-9053-36 | TP-18-12 | Solid | 08/02/18 10:54 | 08/02/18 14:45 |
| 590-9053-42 | TP-12-12 | Solid | 08/02/18 11:55 | 08/02/18 14:45 |

1

2

3

4

5

6

7

8

9

10

11

12

Definitions/Glossary

Client: Hart Crowser, Inc.
Project/Site: Focused Phase II ESA

TestAmerica Job ID: 590-9053-2

Glossary

| Abbreviation | These commonly used abbreviations may or may not be present in this report. |
|----------------|---|
| α | 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 | Detection Limit (DoD/DOE) |
| DL, RA, RE, IN | Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample |
| DLC | Decision Level Concentration (Radiochemistry) |
| EDL | Estimated Detection Limit (Dioxin) |
| LOD | Limit of Detection (DoD/DOE) |
| LOQ | Limit of Quantitation (DoD/DOE) |
| MDA | Minimum Detectable Activity (Radiochemistry) |
| MDC | Minimum Detectable Concentration (Radiochemistry) |
| 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 (Radiochemistry) |
| RL | Reporting Limit or Requested Limit (Radiochemistry) |
| RPD | Relative Percent Difference, a measure of the relative difference between two points |
| TEF | Toxicity Equivalent Factor (Dioxin) |
| TEQ | Toxicity Equivalent Quotient (Dioxin) |

Client Sample Results

Client: Hart Crowser, Inc.
Project/Site: Focused Phase II ESA

TestAmerica Job ID: 590-9053-2

Client Sample ID: TP-19-12

Date Collected: 08/02/18 09:51

Date Received: 08/02/18 14:45

Lab Sample ID: 590-9053-2

Matrix: Solid

Percent Solids: 79.8

Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------|--------|-----------|----|-----|-------|---|----------------|----------------|---------|
| Naphthalene | 26 | | 13 | | ug/Kg | ☼ | 08/08/18 08:54 | 08/08/18 15:22 | 1 |
| 2-Methylnaphthalene | 23 | | 13 | | ug/Kg | ☼ | 08/08/18 08:54 | 08/08/18 15:22 | 1 |
| 1-Methylnaphthalene | 18 | | 13 | | ug/Kg | ☼ | 08/08/18 08:54 | 08/08/18 15:22 | 1 |
| Acenaphthylene | ND | | 13 | | ug/Kg | ☼ | 08/08/18 08:54 | 08/08/18 15:22 | 1 |
| Acenaphthene | 160 | | 13 | | ug/Kg | ☼ | 08/08/18 08:54 | 08/08/18 15:22 | 1 |
| Fluorene | 54 | | 13 | | ug/Kg | ☼ | 08/08/18 08:54 | 08/08/18 15:22 | 1 |
| Phenanthrene | 850 | | 13 | | ug/Kg | ☼ | 08/08/18 08:54 | 08/08/18 15:22 | 1 |
| Anthracene | 220 | | 13 | | ug/Kg | ☼ | 08/08/18 08:54 | 08/08/18 15:22 | 1 |
| Fluoranthene | 2000 | | 13 | | ug/Kg | ☼ | 08/08/18 08:54 | 08/08/18 15:22 | 1 |
| Pyrene | 2400 | | 13 | | ug/Kg | ☼ | 08/08/18 08:54 | 08/08/18 15:22 | 1 |
| Benzo[a]anthracene | 1700 | | 13 | | ug/Kg | ☼ | 08/08/18 08:54 | 08/08/18 15:22 | 1 |
| Chrysene | 2100 | | 13 | | ug/Kg | ☼ | 08/08/18 08:54 | 08/08/18 15:22 | 1 |
| Benzo[b]fluoranthene | 2600 | | 13 | | ug/Kg | ☼ | 08/08/18 08:54 | 08/08/18 15:22 | 1 |
| Benzo[k]fluoranthene | 1100 | | 13 | | ug/Kg | ☼ | 08/08/18 08:54 | 08/08/18 15:22 | 1 |
| Benzo[a]pyrene | 2300 | | 13 | | ug/Kg | ☼ | 08/08/18 08:54 | 08/08/18 15:22 | 1 |
| Indeno[1,2,3-cd]pyrene | 1400 | | 13 | | ug/Kg | ☼ | 08/08/18 08:54 | 08/08/18 15:22 | 1 |
| Dibenz(a,h)anthracene | 450 | | 13 | | ug/Kg | ☼ | 08/08/18 08:54 | 08/08/18 15:22 | 1 |
| Benzo[g,h,i]perylene | 1600 | | 13 | | ug/Kg | ☼ | 08/08/18 08:54 | 08/08/18 15:22 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-------------------------|-----------|-----------|----------|----------------|----------------|---------|
| Nitrobenzene-d5 | 78 | | 23 - 120 | 08/08/18 08:54 | 08/08/18 15:22 | 1 |
| 2-Fluorobiphenyl (Surr) | 82 | | 38 - 123 | 08/08/18 08:54 | 08/08/18 15:22 | 1 |
| p-Terphenyl-d14 | 90 | | 68 - 136 | 08/08/18 08:54 | 08/08/18 15:22 | 1 |

Method: 6010C - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|-----|-----|-------|---|----------------|----------------|---------|
| Lead | 430 | | 5.8 | | mg/Kg | ☼ | 08/08/18 14:27 | 08/09/18 12:46 | 2 |

Client Sample ID: TP-17-12

Date Collected: 08/02/18 10:51

Date Received: 08/02/18 14:45

Lab Sample ID: 590-9053-12

Matrix: Solid

Percent Solids: 95.0

Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------|--------|-----------|----|-----|-------|---|----------------|----------------|---------|
| Naphthalene | ND | | 10 | | ug/Kg | ☼ | 08/08/18 14:27 | 08/08/18 15:47 | 1 |
| 2-Methylnaphthalene | ND | | 10 | | ug/Kg | ☼ | 08/08/18 14:27 | 08/08/18 15:47 | 1 |
| 1-Methylnaphthalene | ND | | 10 | | ug/Kg | ☼ | 08/08/18 14:27 | 08/08/18 15:47 | 1 |
| Acenaphthylene | ND | | 10 | | ug/Kg | ☼ | 08/08/18 14:27 | 08/08/18 15:47 | 1 |
| Acenaphthene | ND | | 10 | | ug/Kg | ☼ | 08/08/18 14:27 | 08/08/18 15:47 | 1 |
| Fluorene | ND | | 10 | | ug/Kg | ☼ | 08/08/18 14:27 | 08/08/18 15:47 | 1 |
| Phenanthrene | 18 | | 10 | | ug/Kg | ☼ | 08/08/18 14:27 | 08/08/18 15:47 | 1 |
| Anthracene | ND | | 10 | | ug/Kg | ☼ | 08/08/18 14:27 | 08/08/18 15:47 | 1 |
| Fluoranthene | 51 | | 10 | | ug/Kg | ☼ | 08/08/18 14:27 | 08/08/18 15:47 | 1 |
| Pyrene | 61 | | 10 | | ug/Kg | ☼ | 08/08/18 14:27 | 08/08/18 15:47 | 1 |
| Benzo[a]anthracene | 42 | | 10 | | ug/Kg | ☼ | 08/08/18 14:27 | 08/08/18 15:47 | 1 |
| Chrysene | 56 | | 10 | | ug/Kg | ☼ | 08/08/18 14:27 | 08/08/18 15:47 | 1 |
| Benzo[b]fluoranthene | 71 | | 10 | | ug/Kg | ☼ | 08/08/18 14:27 | 08/08/18 15:47 | 1 |
| Benzo[k]fluoranthene | 28 | | 10 | | ug/Kg | ☼ | 08/08/18 14:27 | 08/08/18 15:47 | 1 |
| Benzo[a]pyrene | 62 | | 10 | | ug/Kg | ☼ | 08/08/18 14:27 | 08/08/18 15:47 | 1 |
| Indeno[1,2,3-cd]pyrene | 38 | | 10 | | ug/Kg | ☼ | 08/08/18 14:27 | 08/08/18 15:47 | 1 |

TestAmerica Spokane

Client Sample Results

Client: Hart Crowser, Inc.
Project/Site: Focused Phase II ESA

TestAmerica Job ID: 590-9053-2

Client Sample ID: TP-17-12

Lab Sample ID: 590-9053-12

Date Collected: 08/02/18 10:51

Matrix: Solid

Date Received: 08/02/18 14:45

Percent Solids: 95.0

Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------|------------------|------------------|---------------|-----|-------|---|-----------------|-----------------|----------------|
| Dibenz(a,h)anthracene | 13 | | 10 | | ug/Kg | ☼ | 08/08/18 14:27 | 08/08/18 15:47 | 1 |
| Benzo[g,h,i]perylene | 44 | | 10 | | ug/Kg | ☼ | 08/08/18 14:27 | 08/08/18 15:47 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| Nitrobenzene-d5 | 73 | | 23 - 120 | | | | 08/08/18 14:27 | 08/08/18 15:47 | 1 |
| 2-Fluorobiphenyl (Surr) | 81 | | 38 - 123 | | | | 08/08/18 14:27 | 08/08/18 15:47 | 1 |
| p-Terphenyl-d14 | 86 | | 68 - 136 | | | | 08/08/18 14:27 | 08/08/18 15:47 | 1 |

Method: 6010C - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|-----|-----|-------|---|----------------|----------------|---------|
| Lead | 200 | | 5.1 | | mg/Kg | ☼ | 08/08/18 14:27 | 08/09/18 12:49 | 2 |

Client Sample ID: TP-18-12

Lab Sample ID: 590-9053-36

Date Collected: 08/02/18 10:54

Matrix: Solid

Date Received: 08/02/18 14:45

Percent Solids: 94.5

Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------|------------------|------------------|---------------|-----|-------|---|-----------------|-----------------|----------------|
| Naphthalene | ND | | 10 | | ug/Kg | ☼ | 08/08/18 14:27 | 08/08/18 16:12 | 1 |
| 2-Methylnaphthalene | ND | | 10 | | ug/Kg | ☼ | 08/08/18 14:27 | 08/08/18 16:12 | 1 |
| 1-Methylnaphthalene | ND | | 10 | | ug/Kg | ☼ | 08/08/18 14:27 | 08/08/18 16:12 | 1 |
| Acenaphthylene | ND | | 10 | | ug/Kg | ☼ | 08/08/18 14:27 | 08/08/18 16:12 | 1 |
| Acenaphthene | 31 | | 10 | | ug/Kg | ☼ | 08/08/18 14:27 | 08/08/18 16:12 | 1 |
| Fluorene | ND | | 10 | | ug/Kg | ☼ | 08/08/18 14:27 | 08/08/18 16:12 | 1 |
| Phenanthrene | 180 | | 10 | | ug/Kg | ☼ | 08/08/18 14:27 | 08/08/18 16:12 | 1 |
| Anthracene | 43 | | 10 | | ug/Kg | ☼ | 08/08/18 14:27 | 08/08/18 16:12 | 1 |
| Fluoranthene | 520 | | 10 | | ug/Kg | ☼ | 08/08/18 14:27 | 08/08/18 16:12 | 1 |
| Pyrene | 580 | | 10 | | ug/Kg | ☼ | 08/08/18 14:27 | 08/08/18 16:12 | 1 |
| Benzo[a]anthracene | 400 | | 10 | | ug/Kg | ☼ | 08/08/18 14:27 | 08/08/18 16:12 | 1 |
| Chrysene | 530 | | 10 | | ug/Kg | ☼ | 08/08/18 14:27 | 08/08/18 16:12 | 1 |
| Benzo[b]fluoranthene | 690 | | 10 | | ug/Kg | ☼ | 08/08/18 14:27 | 08/08/18 16:12 | 1 |
| Benzo[k]fluoranthene | 260 | | 10 | | ug/Kg | ☼ | 08/08/18 14:27 | 08/08/18 16:12 | 1 |
| Benzo[a]pyrene | 630 | | 10 | | ug/Kg | ☼ | 08/08/18 14:27 | 08/08/18 16:12 | 1 |
| Indeno[1,2,3-cd]pyrene | 370 | | 10 | | ug/Kg | ☼ | 08/08/18 14:27 | 08/08/18 16:12 | 1 |
| Dibenz(a,h)anthracene | 130 | | 10 | | ug/Kg | ☼ | 08/08/18 14:27 | 08/08/18 16:12 | 1 |
| Benzo[g,h,i]perylene | 470 | | 10 | | ug/Kg | ☼ | 08/08/18 14:27 | 08/08/18 16:12 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| Nitrobenzene-d5 | 75 | | 23 - 120 | | | | 08/08/18 14:27 | 08/08/18 16:12 | 1 |
| 2-Fluorobiphenyl (Surr) | 82 | | 38 - 123 | | | | 08/08/18 14:27 | 08/08/18 16:12 | 1 |
| p-Terphenyl-d14 | 85 | | 68 - 136 | | | | 08/08/18 14:27 | 08/08/18 16:12 | 1 |

Method: 6010C - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|-----|-----|-------|---|----------------|----------------|---------|
| Lead | 36 | | 4.3 | | mg/Kg | ☼ | 08/08/18 14:27 | 08/09/18 13:03 | 2 |

TestAmerica Spokane

Client Sample Results

Client: Hart Crowser, Inc.
Project/Site: Focused Phase II ESA

TestAmerica Job ID: 590-9053-2

Client Sample ID: TP-12-12

Lab Sample ID: 590-9053-42

Date Collected: 08/02/18 11:55

Matrix: Solid

Date Received: 08/02/18 14:45

Percent Solids: 95.6

Method: 6010C - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|-----|-----|-------|---|----------------|----------------|---------|
| Lead | 13 | | 5.3 | | mg/Kg | ☼ | 08/08/18 14:27 | 08/09/18 13:06 | 2 |

1

2

3

4

5

6

7

8

9

10

11

12

QC Sample Results

Client: Hart Crowser, Inc.
Project/Site: Focused Phase II ESA

TestAmerica Job ID: 590-9053-2

Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM)

Lab Sample ID: MB 590-18176/1-A
Matrix: Solid
Analysis Batch: 18173

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 18176

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------|-----------|--------------|----|-----|-------|---|----------------|----------------|---------|
| Naphthalene | ND | | 10 | | ug/Kg | | 08/08/18 08:54 | 08/08/18 10:11 | 1 |
| 2-Methylnaphthalene | ND | | 10 | | ug/Kg | | 08/08/18 08:54 | 08/08/18 10:11 | 1 |
| 1-Methylnaphthalene | ND | | 10 | | ug/Kg | | 08/08/18 08:54 | 08/08/18 10:11 | 1 |
| Acenaphthylene | ND | | 10 | | ug/Kg | | 08/08/18 08:54 | 08/08/18 10:11 | 1 |
| Acenaphthene | ND | | 10 | | ug/Kg | | 08/08/18 08:54 | 08/08/18 10:11 | 1 |
| Fluorene | ND | | 10 | | ug/Kg | | 08/08/18 08:54 | 08/08/18 10:11 | 1 |
| Phenanthrene | ND | | 10 | | ug/Kg | | 08/08/18 08:54 | 08/08/18 10:11 | 1 |
| Anthracene | ND | | 10 | | ug/Kg | | 08/08/18 08:54 | 08/08/18 10:11 | 1 |
| Fluoranthene | ND | | 10 | | ug/Kg | | 08/08/18 08:54 | 08/08/18 10:11 | 1 |
| Pyrene | ND | | 10 | | ug/Kg | | 08/08/18 08:54 | 08/08/18 10:11 | 1 |
| Benzo[a]anthracene | ND | | 10 | | ug/Kg | | 08/08/18 08:54 | 08/08/18 10:11 | 1 |
| Chrysene | ND | | 10 | | ug/Kg | | 08/08/18 08:54 | 08/08/18 10:11 | 1 |
| Benzo[b]fluoranthene | ND | | 10 | | ug/Kg | | 08/08/18 08:54 | 08/08/18 10:11 | 1 |
| Benzo[k]fluoranthene | ND | | 10 | | ug/Kg | | 08/08/18 08:54 | 08/08/18 10:11 | 1 |
| Benzo[a]pyrene | ND | | 10 | | ug/Kg | | 08/08/18 08:54 | 08/08/18 10:11 | 1 |
| Indeno[1,2,3-cd]pyrene | ND | | 10 | | ug/Kg | | 08/08/18 08:54 | 08/08/18 10:11 | 1 |
| Dibenz(a,h)anthracene | ND | | 10 | | ug/Kg | | 08/08/18 08:54 | 08/08/18 10:11 | 1 |
| Benzo[g,h,i]perylene | ND | | 10 | | ug/Kg | | 08/08/18 08:54 | 08/08/18 10:11 | 1 |

| Surrogate | MB %Recovery | MB Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-------------------------|--------------|--------------|----------|----------------|----------------|---------|
| Nitrobenzene-d5 | 74 | | 23 - 120 | 08/08/18 08:54 | 08/08/18 10:11 | 1 |
| 2-Fluorobiphenyl (Surr) | 78 | | 38 - 123 | 08/08/18 08:54 | 08/08/18 10:11 | 1 |
| p-Terphenyl-d14 | 96 | | 68 - 136 | 08/08/18 08:54 | 08/08/18 10:11 | 1 |

Lab Sample ID: LCS 590-18176/2-A
Matrix: Solid
Analysis Batch: 18173

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 18176

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|------------------------|-------------|------------|---------------|-------|---|------|--------------|
| Naphthalene | 267 | 176 | | ug/Kg | | 66 | 41 - 121 |
| 2-Methylnaphthalene | 267 | 201 | | ug/Kg | | 75 | 39 - 132 |
| 1-Methylnaphthalene | 267 | 227 | | ug/Kg | | 85 | 46 - 131 |
| Acenaphthylene | 267 | 187 | | ug/Kg | | 70 | 56 - 123 |
| Acenaphthene | 267 | 202 | | ug/Kg | | 76 | 43 - 140 |
| Fluorene | 267 | 236 | | ug/Kg | | 88 | 54 - 131 |
| Phenanthrene | 267 | 228 | | ug/Kg | | 86 | 55 - 141 |
| Anthracene | 267 | 248 | | ug/Kg | | 93 | 60 - 129 |
| Fluoranthene | 267 | 231 | | ug/Kg | | 87 | 63 - 141 |
| Pyrene | 267 | 237 | | ug/Kg | | 89 | 62 - 139 |
| Benzo[a]anthracene | 267 | 242 | | ug/Kg | | 91 | 61 - 136 |
| Chrysene | 267 | 242 | | ug/Kg | | 91 | 57 - 144 |
| Benzo[b]fluoranthene | 267 | 227 | | ug/Kg | | 85 | 66 - 141 |
| Benzo[k]fluoranthene | 267 | 245 | | ug/Kg | | 92 | 63 - 150 |
| Benzo[a]pyrene | 267 | 231 | | ug/Kg | | 86 | 60 - 133 |
| Indeno[1,2,3-cd]pyrene | 267 | 248 | | ug/Kg | | 93 | 55 - 142 |
| Dibenz(a,h)anthracene | 267 | 247 | | ug/Kg | | 93 | 60 - 150 |
| Benzo[g,h,i]perylene | 267 | 255 | | ug/Kg | | 96 | 58 - 147 |

TestAmerica Spokane

QC Sample Results

Client: Hart Crowser, Inc.
Project/Site: Focused Phase II ESA

TestAmerica Job ID: 590-9053-2

Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Lab Sample ID: LCS 590-18176/2-A
Matrix: Solid
Analysis Batch: 18173

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 18176

| Surrogate | LCS %Recovery | LCS Qualifier | Limits |
|-------------------------|---------------|---------------|----------|
| Nitrobenzene-d5 | 80 | | 23 - 120 |
| 2-Fluorobiphenyl (Surr) | 81 | | 38 - 123 |
| p-Terphenyl-d14 | 95 | | 68 - 136 |

Lab Sample ID: LCSD 590-18176/3-A
Matrix: Solid
Analysis Batch: 18173

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 18176

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|------------------------|-------------|-------------|----------------|-------|---|------|--------------|-----|-----------|
| Naphthalene | 267 | 150 | | ug/Kg | | 56 | 41 - 121 | 17 | 35 |
| 2-Methylnaphthalene | 267 | 188 | | ug/Kg | | 71 | 39 - 132 | 6 | 35 |
| 1-Methylnaphthalene | 267 | 217 | | ug/Kg | | 81 | 46 - 131 | 4 | 35 |
| Acenaphthylene | 267 | 185 | | ug/Kg | | 70 | 56 - 123 | 1 | 35 |
| Acenaphthene | 267 | 195 | | ug/Kg | | 73 | 43 - 140 | 4 | 35 |
| Fluorene | 267 | 220 | | ug/Kg | | 82 | 54 - 131 | 7 | 35 |
| Phenanthrene | 267 | 212 | | ug/Kg | | 80 | 55 - 141 | 7 | 35 |
| Anthracene | 267 | 240 | | ug/Kg | | 90 | 60 - 129 | 3 | 35 |
| Fluoranthene | 267 | 231 | | ug/Kg | | 87 | 63 - 141 | 0 | 35 |
| Pyrene | 267 | 223 | | ug/Kg | | 84 | 62 - 139 | 6 | 35 |
| Benzo[a]anthracene | 267 | 229 | | ug/Kg | | 86 | 61 - 136 | 6 | 35 |
| Chrysene | 267 | 248 | | ug/Kg | | 93 | 57 - 144 | 2 | 35 |
| Benzo[b]fluoranthene | 267 | 232 | | ug/Kg | | 87 | 66 - 141 | 3 | 35 |
| Benzo[k]fluoranthene | 267 | 218 | | ug/Kg | | 82 | 63 - 150 | 12 | 35 |
| Benzo[a]pyrene | 267 | 220 | | ug/Kg | | 83 | 60 - 133 | 5 | 35 |
| Indeno[1,2,3-cd]pyrene | 267 | 230 | | ug/Kg | | 86 | 55 - 142 | 7 | 35 |
| Dibenz(a,h)anthracene | 267 | 235 | | ug/Kg | | 88 | 60 - 150 | 5 | 35 |
| Benzo[g,h,i]perylene | 267 | 234 | | ug/Kg | | 88 | 58 - 147 | 9 | 35 |

| Surrogate | LCSD %Recovery | LCSD Qualifier | Limits |
|-------------------------|----------------|----------------|----------|
| Nitrobenzene-d5 | 77 | | 23 - 120 |
| 2-Fluorobiphenyl (Surr) | 82 | | 38 - 123 |
| p-Terphenyl-d14 | 90 | | 68 - 136 |

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 590-18194/2-A
Matrix: Solid
Analysis Batch: 18230

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 18194

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|-----------|--------------|-----|-----|-------|---|----------------|----------------|---------|
| Lead | ND | | 3.0 | | mg/Kg | | 08/08/18 14:27 | 08/09/18 12:19 | 1 |

Lab Sample ID: LCS 590-18194/1-A
Matrix: Solid
Analysis Batch: 18230

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 18194

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---------|-------------|------------|---------------|-------|---|------|--------------|
| Lead | 50.0 | 52.4 | | mg/Kg | | 105 | 80 - 120 |

TestAmerica Spokane

Lab Chronicle

Client: Hart Crowser, Inc.
Project/Site: Focused Phase II ESA

TestAmerica Job ID: 590-9053-2

Client Sample ID: TP-19-12

Date Collected: 08/02/18 09:51

Date Received: 08/02/18 14:45

Lab Sample ID: 590-9053-2

Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | Moisture | | 1 | | | 18197 | 08/08/18 15:41 | MO | TAL SPK |

Client Sample ID: TP-19-12

Date Collected: 08/02/18 09:51

Date Received: 08/02/18 14:45

Lab Sample ID: 590-9053-2

Matrix: Solid

Percent Solids: 79.8

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 3550C | | | 15.00 g | 2 mL | 18176 | 08/08/18 08:54 | MO | TAL SPK |
| Total/NA | Analysis | 8270D SIM | | 1 | | | 18173 | 08/08/18 15:22 | NMI | TAL SPK |
| Total/NA | Prep | 3050B | | | 1.30 g | 50 mL | 18194 | 08/08/18 14:27 | JSP | TAL SPK |
| Total/NA | Analysis | 6010C | | 2 | | | 18230 | 08/09/18 12:46 | JSP | TAL SPK |

Client Sample ID: TP-17-12

Date Collected: 08/02/18 10:51

Date Received: 08/02/18 14:45

Lab Sample ID: 590-9053-12

Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | Moisture | | 1 | | | 18197 | 08/08/18 15:41 | MO | TAL SPK |

Client Sample ID: TP-17-12

Date Collected: 08/02/18 10:51

Date Received: 08/02/18 14:45

Lab Sample ID: 590-9053-12

Matrix: Solid

Percent Solids: 95.0

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 3550C | | | 15.83 g | 2 mL | 18176 | 08/08/18 14:27 | MO | TAL SPK |
| Total/NA | Analysis | 8270D SIM | | 1 | | | 18173 | 08/08/18 15:47 | NMI | TAL SPK |
| Total/NA | Prep | 3050B | | | 1.25 g | 50 mL | 18194 | 08/08/18 14:27 | JSP | TAL SPK |
| Total/NA | Analysis | 6010C | | 2 | | | 18230 | 08/09/18 12:49 | JSP | TAL SPK |

Client Sample ID: TP-18-12

Date Collected: 08/02/18 10:54

Date Received: 08/02/18 14:45

Lab Sample ID: 590-9053-36

Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | Moisture | | 1 | | | 18197 | 08/08/18 15:41 | MO | TAL SPK |

Client Sample ID: TP-18-12

Date Collected: 08/02/18 10:54

Date Received: 08/02/18 14:45

Lab Sample ID: 590-9053-36

Matrix: Solid

Percent Solids: 94.5

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 3550C | | | 15.49 g | 2 mL | 18176 | 08/08/18 14:27 | MO | TAL SPK |

TestAmerica Spokane

Lab Chronicle

Client: Hart Crowser, Inc.
Project/Site: Focused Phase II ESA

TestAmerica Job ID: 590-9053-2

Client Sample ID: TP-18-12

Date Collected: 08/02/18 10:54

Date Received: 08/02/18 14:45

Lab Sample ID: 590-9053-36

Matrix: Solid

Percent Solids: 94.5

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 8270D SIM | | 1 | | | 18173 | 08/08/18 16:12 | NMI | TAL SPK |
| Total/NA | Prep | 3050B | | | 1.47 g | 50 mL | 18194 | 08/08/18 14:27 | JSP | TAL SPK |
| Total/NA | Analysis | 6010C | | 2 | | | 18230 | 08/09/18 13:03 | JSP | TAL SPK |

Client Sample ID: TP-12-12

Date Collected: 08/02/18 11:55

Date Received: 08/02/18 14:45

Lab Sample ID: 590-9053-42

Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | Moisture | | 1 | | | 18197 | 08/08/18 15:41 | MO | TAL SPK |

Client Sample ID: TP-12-12

Date Collected: 08/02/18 11:55

Date Received: 08/02/18 14:45

Lab Sample ID: 590-9053-42

Matrix: Solid

Percent Solids: 95.6

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 3050B | | | 1.19 g | 50 mL | 18194 | 08/08/18 14:27 | JSP | TAL SPK |
| Total/NA | Analysis | 6010C | | 2 | | | 18230 | 08/09/18 13:06 | JSP | TAL SPK |

Laboratory References:

TAL SPK = TestAmerica Spokane, 11922 East 1st Ave, Spokane, WA 99206, TEL (509)924-9200

Accreditation/Certification Summary

Client: Hart Crowser, Inc.
Project/Site: Focused Phase II ESA

TestAmerica Job ID: 590-9053-2

Laboratory: TestAmerica Spokane

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

| Authority | Program | EPA Region | Identification Number | Expiration Date |
|------------|---------------|------------|-----------------------|-----------------|
| Washington | State Program | 10 | C569 | 01-06-19 |

The following analytes are included in this report, but accreditation/certification is not offered by the governing authority:

| Analysis Method | Prep Method | Matrix | Analyte |
|-----------------|-------------|--------|------------------|
| Moisture | | Solid | Percent Moisture |
| Moisture | | Solid | Percent Solids |

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12

Method Summary

Client: Hart Crowser, Inc.
Project/Site: Focused Phase II ESA

TestAmerica Job ID: 590-9053-2

| Method | Method Description | Protocol | Laboratory |
|-----------|--|----------|------------|
| 8270D SIM | Semivolatile Organic Compounds (GC/MS SIM) | SW846 | TAL SPK |
| 6010C | Metals (ICP) | SW846 | TAL SPK |
| Moisture | Percent Moisture | EPA | TAL SPK |
| 3050B | Preparation, Metals | SW846 | TAL SPK |
| 3550C | Ultrasonic Extraction | SW846 | TAL SPK |

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

TAL SPK = TestAmerica Spokane, 11922 East 1st Ave, Spokane, WA 99206, TEL (509)924-9200



1
2
3
4
5
6
7
8
9
10
11
12

Sample Custody Record

Samples Shipped to: TEST AMERICA



HART CROWSNER

Page 3 of 3

Hart Crowsner, Inc.
3131 Elliott Avenue, Suite 602
Seattle, Washington 98122
Office: 206.324.9530 • Fax 206.328.5583

JOB CUSD LAB NUMBER _____

PROJECT NAME FOCUSED PHASE II ESA

HART CROWSER CONTACT J HANEY

SAMPLED BY: W. MEDENRATH

REQUESTED ANALYSIS _____

NO. OF CONTAINERS _____

OBSERVATIONS/COMMENTS/
COMPOSITING INSTRUCTIONS _____

| LAB NO. | SAMPLE ID | DESCRIPTION | DATE | TIME | MATRIX | LEAD (TOTAL) | PAHS | NO. OF CONTAINERS | TOTAL NUMBER OF CONTAINERS |
|---------|-----------|-------------|--------|------|--------|--------------|------|-------------------|----------------------------|
| | TP-9-6 | | 8/2/18 | 1150 | Soil | X | | 1 | Hold |
| | TP-9-12 | | | 1151 | | X | | 1 | Hold |
| | TP-8-6 | | | 1200 | | X | | 1 | Hold |
| | TP-8-12 | | | 1201 | | X | | 1 | Hold |
| | TP-7-6 | | | 1210 | | X | | 1 | Hold |
| | TP-7-12 | | | 1211 | | X | | 1 | Hold |
| | TP-5-6 | | | 1220 | | X | | 1 | Hold |
| | TP-5-12 | | | 1221 | | X | | 1 | Hold |
| | TP-4-6 | | | 1230 | | X | | 1 | Hold |
| | TP-4-12 | | | 1231 | | X | | 1 | Hold |
| | TP-2-6 | | | 1246 | | X | | 1 | Hold |
| | TP-2-12 | | | 1241 | | X | | 1 | Hold |

RELINQUISHED BY: [Signature] DATE: 8/2/18

SIGNATURE: [Signature] TIME: 8/2/18

PRINT NAME: J HANEY

COMPANY: HRC

RECEIVED BY: [Signature] DATE: 8/2/18

SIGNATURE: [Signature] TIME: 8/2/18

PRINT NAME: J HANEY

COMPANY: HRC

RELINQUISHED BY: [Signature] DATE: 8/2/18

SIGNATURE: [Signature] TIME: 8/2/18

PRINT NAME: J HANEY

COMPANY: HRC

RECEIVED BY: [Signature] DATE: 8/2/18

SIGNATURE: [Signature] TIME: 8/2/18

PRINT NAME: J HANEY

COMPANY: HRC

COOLER NO.: _____ STORAGE LOCATION: _____

SPECIAL SHIPMENT HANDLING OR STORAGE REQUIREMENTS: _____

TURNAROUND TIME: 24 HOURS 1 WEEK

48 HOURS STANDARD

72 HOURS OTHER _____

SAMPLE RECEIPT INFORMATION

CUSTODY SEALS: YES NO N/A

GOOD CONDITION: YES NO

TEMPERATURE: _____

SHIPMENT METHOD: HAND OVERNIGHT

COURIER

White to Lab Yellow to Project Manager Pink to Sample Custodian

7.6 c TROCK

Sample Custody Record

Samples Shipped to: TEST AMERICA, SPOKANE



Hart Crowsner, Inc.
 3131 Elliott Avenue, Suite 602
 Seattle, Washington 98122
 Office: 206.324.9530 • Fax 206.328.5588

JOB CVSD LAB NUMBER _____
 PROJECT NAME FOCUSED PHASE II ESA
 HART CROWSER CONTACT JOHN HANEY

SAMPLED BY: JTH

| LAB NO. | SAMPLE ID | DESCRIPTION | DATE | TIME | MATRIX | REQUESTED ANALYSIS | NO. OF CONTAINERS | OBSERVATIONS/COMMENTS/ COMPOSITING INSTRUCTIONS |
|---------------------------------|-----------|---------------|-----------------------------------|---------------|---------------|---|----------------------------|--|
| | | | | | | LEAD(TOTAL) PAN | | |
| | TP-18-6 | Soil | 8/2/18 | 10:50 | S | | 1 | |
| | TP-18-12 | | | 10:54 | | | 1 | Hold |
| | TP-16-6 | | | 11:11 | | | 1 | Hold |
| | TP-16-12 | | | 11:15 | | | 1 | Hold |
| | TP-14-6 | | | 11:30 | | | 1 | Hold |
| | TP-14-12 | | | 11:35 | | | 1 | Hold |
| | TP-12-6 | | | 11:50 | | | 1 | Hold |
| | TP-12-12 | | | 11:55 | | | 1 | Hold |
| | TP-6-6 | | | 12:25 | | | 1 | Hold |
| | TP-6-12 | | | 12:30 | | | 1 | Hold |
| | TP-3-6 | | | 12:45 | | | 1 | Hold |
| | TP-3-12 | | | 12:50 | | | 1 | Hold |
| RELINQUISHED BY | | DATE | RECEIVED BY | DATE | DATE | SPECIAL SHIPMENT HANDLING OR STORAGE REQUIREMENTS: | TOTAL NUMBER OF CONTAINERS | |
| <u>John Haney</u> | | 8/2/18 | <u>Shirley Ford</u> | 8/2/18 | 8/2/18 | | 12 | |
| PRINT NAME <u>John Haney</u> | | TIME 14:44 | PRINT NAME <u>Shirley Ford</u> | TIME 14:44 | TIME 14:44 | | | |
| COMPANY | | | COMPANY | | | | | |
| RELINQUISHED BY | | DATE | RECEIVED BY | DATE | DATE | COOLER NO.: | STORAGE LOCATION: | |
| | | | | | | | | |
| SIGNATURE | | TIME | SIGNATURE | TIME | TIME | See Lab Work Order No. _____ for Other Contract Requirements | | |
| PRINT NAME | | | PRINT NAME | | | | | |
| COMPANY | | | COMPANY | | | | | |

Write to Lab Yellow to Project Manager Pink to Sample Custodian J. C. Steacy

Login Sample Receipt Checklist

Client: Hart Crowser, Inc.

Job Number: 590-9053-2

Login Number: 9053

List Source: TestAmerica Spokane

List Number: 1

Creator: Kratz, Sheila J

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



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

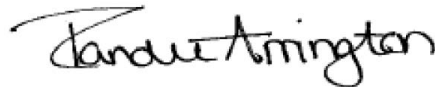
ANALYTICAL REPORT

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

TestAmerica Job ID: 590-9053-3
Client Project/Site: Focused Phase II ESA

For:
Hart Crowser, Inc.
505 West Riverside Avenue, Suite 205
Spokane, Washington 99201

Attn: John Haney



Authorized for release by:
8/15/2018 4:51:15 PM

Randee Arrington, Project Manager II
(509)924-9200
randee.arrington@testamericainc.com

LINKS

Review your project
results through
TotalAccess

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.

1

2

3

4

5

6

7

8

9

10

11

12



Table of Contents

| | |
|---------------------------------|----|
| Cover Page | 1 |
| Table of Contents | 2 |
| Case Narrative | 3 |
| Sample Summary | 4 |
| Definitions | 5 |
| Client Sample Results | 6 |
| QC Sample Results | 10 |
| Chronicle | 16 |
| Certification Summary | 18 |
| Method Summary | 19 |
| Chain of Custody | 20 |
| Receipt Checklists | 24 |

Case Narrative

Client: Hart Crowser, Inc.
Project/Site: Focused Phase II ESA

TestAmerica Job ID: 590-9053-3

Job ID: 590-9053-3

Laboratory: TestAmerica Spokane

Narrative

Receipt

The samples were received on 8/2/2018 2:45 PM; the samples arrived in good condition. The temperature of the cooler at receipt was 7.6° C.

Receipt Exceptions

The following samples were received at the laboratory outside the required temperature criteria: TP-21-6 (590-9053-5), TP-14-6 (590-9053-39), TP-12-6 (590-9053-41), TP-6-6 (590-9053-43). The samples are considered acceptable since they were collected and submitted to the laboratory on the same day and there is evidence that the chilling process has begun.

The following samples were activated for 8270D PAH analysis by the client on 08/13/18: TP-21-6 (590-9053-5), TP-14-6 (590-9053-39), TP-12-6 (590-9053-41) and TP-6-6 (590-9053-43). This analysis was not originally requested on the chain-of-custody (COC).

The following samples were activated for 6010C Ag, As, Ba, Cd, Cr, Se and 7471B Mercury analysis by the client on 08/13/18: TP-19-6 (590-9053-1), TP-17-6 (590-9053-11), TP-18-6 (590-9053-35) and TP-12-6 (590-9053-41). This analysis was not originally requested on the chain-of-custody (COC).

GC/MS Semi VOA

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

Metals

Method 6010C: The low level continuing calibration verification (CCVL) associated with batch 590-18298 recovered above the upper control limit for Selenium. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

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

Organic Prep

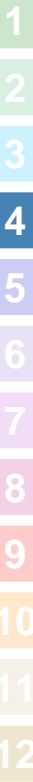
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Sample Summary

Client: Hart Crowser, Inc.
Project/Site: Focused Phase II ESA

TestAmerica Job ID: 590-9053-3

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received |
|---------------|------------------|--------|----------------|----------------|
| 590-9053-1 | TP-19-6 | Solid | 08/02/18 09:50 | 08/02/18 14:45 |
| 590-9053-5 | TP-21-6 | Solid | 08/02/18 10:10 | 08/02/18 14:45 |
| 590-9053-11 | TP-17-6 | Solid | 08/02/18 10:50 | 08/02/18 14:45 |
| 590-9053-35 | TP-18-6 | Solid | 08/02/18 10:50 | 08/02/18 14:45 |
| 590-9053-39 | TP-14-6 | Solid | 08/02/18 11:30 | 08/02/18 14:45 |
| 590-9053-41 | TP-12-6 | Solid | 08/02/18 11:50 | 08/02/18 14:45 |
| 590-9053-43 | TP-6-6 | Solid | 08/02/18 12:25 | 08/02/18 14:45 |



Definitions/Glossary

Client: Hart Crowser, Inc.
Project/Site: Focused Phase II ESA

TestAmerica Job ID: 590-9053-3

Qualifiers

Metals

| Qualifier | Qualifier Description |
|-----------|--|
| F1 | MS and/or MSD Recovery is outside acceptance limits. |
| ^ | ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits. |

Glossary

| Abbreviation | These commonly used abbreviations may or may not be present in this report. |
|----------------|---|
| α | 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 | Detection Limit (DoD/DOE) |
| DL, RA, RE, IN | Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample |
| DLC | Decision Level Concentration (Radiochemistry) |
| EDL | Estimated Detection Limit (Dioxin) |
| LOD | Limit of Detection (DoD/DOE) |
| LOQ | Limit of Quantitation (DoD/DOE) |
| MDA | Minimum Detectable Activity (Radiochemistry) |
| MDC | Minimum Detectable Concentration (Radiochemistry) |
| 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 (Radiochemistry) |
| RL | Reporting Limit or Requested Limit (Radiochemistry) |
| RPD | Relative Percent Difference, a measure of the relative difference between two points |
| TEF | Toxicity Equivalent Factor (Dioxin) |
| TEQ | Toxicity Equivalent Quotient (Dioxin) |

Client Sample Results

Client: Hart Crowser, Inc.
Project/Site: Focused Phase II ESA

TestAmerica Job ID: 590-9053-3

Client Sample ID: TP-19-6

Date Collected: 08/02/18 09:50

Date Received: 08/02/18 14:45

Lab Sample ID: 590-9053-1

Matrix: Solid

Method: 6010C - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|-----|-----|-------|---|----------------|----------------|---------|
| Arsenic | 21 | F1 | 1.8 | | mg/Kg | | 08/13/18 15:40 | 08/07/18 12:07 | 2 |
| Barium | 190 | F1 | 1.8 | | mg/Kg | | 08/13/18 15:40 | 08/07/18 12:07 | 2 |
| Cadmium | ND | F1 | 1.5 | | mg/Kg | | 08/13/18 15:40 | 08/07/18 12:07 | 2 |
| Chromium | 14 | F1 | 1.8 | | mg/Kg | | 08/13/18 15:40 | 08/07/18 12:07 | 2 |
| Selenium | ND | F1 | 7.4 | | mg/Kg | | 08/13/18 15:40 | 08/07/18 12:07 | 2 |
| Silver | ND | F1 | 1.8 | | mg/Kg | | 08/13/18 15:40 | 08/07/18 12:07 | 2 |

Method: 7471B - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|----|-----|-------|---|----------------|----------------|---------|
| Mercury | 44 | | 40 | | ug/Kg | | 08/15/18 09:01 | 08/15/18 15:14 | 1 |

Client Sample ID: TP-21-6

Date Collected: 08/02/18 10:10

Date Received: 08/02/18 14:45

Lab Sample ID: 590-9053-5

Matrix: Solid

Percent Solids: 94.8

Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------|--------|-----------|----|-----|-------|---|----------------|----------------|---------|
| Naphthalene | ND | | 10 | | ug/Kg | ☼ | 08/13/18 13:56 | 08/13/18 18:11 | 1 |
| 2-Methylnaphthalene | ND | | 10 | | ug/Kg | ☼ | 08/13/18 13:56 | 08/13/18 18:11 | 1 |
| 1-Methylnaphthalene | ND | | 10 | | ug/Kg | ☼ | 08/13/18 13:56 | 08/13/18 18:11 | 1 |
| Acenaphthylene | ND | | 10 | | ug/Kg | ☼ | 08/13/18 13:56 | 08/13/18 18:11 | 1 |
| Acenaphthene | ND | | 10 | | ug/Kg | ☼ | 08/13/18 13:56 | 08/13/18 18:11 | 1 |
| Fluorene | ND | | 10 | | ug/Kg | ☼ | 08/13/18 13:56 | 08/13/18 18:11 | 1 |
| Phenanthrene | 16 | | 10 | | ug/Kg | ☼ | 08/13/18 13:56 | 08/13/18 18:11 | 1 |
| Anthracene | ND | | 10 | | ug/Kg | ☼ | 08/13/18 13:56 | 08/13/18 18:11 | 1 |
| Fluoranthene | 32 | | 10 | | ug/Kg | ☼ | 08/13/18 13:56 | 08/13/18 18:11 | 1 |
| Pyrene | 46 | | 10 | | ug/Kg | ☼ | 08/13/18 13:56 | 08/13/18 18:11 | 1 |
| Benzo[a]anthracene | 26 | | 10 | | ug/Kg | ☼ | 08/13/18 13:56 | 08/13/18 18:11 | 1 |
| Chrysene | 36 | | 10 | | ug/Kg | ☼ | 08/13/18 13:56 | 08/13/18 18:11 | 1 |
| Benzo[b]fluoranthene | 37 | | 10 | | ug/Kg | ☼ | 08/13/18 13:56 | 08/13/18 18:11 | 1 |
| Benzo[k]fluoranthene | 16 | | 10 | | ug/Kg | ☼ | 08/13/18 13:56 | 08/13/18 18:11 | 1 |
| Benzo[a]pyrene | 36 | | 10 | | ug/Kg | ☼ | 08/13/18 13:56 | 08/13/18 18:11 | 1 |
| Indeno[1,2,3-cd]pyrene | 22 | | 10 | | ug/Kg | ☼ | 08/13/18 13:56 | 08/13/18 18:11 | 1 |
| Dibenz(a,h)anthracene | ND | | 10 | | ug/Kg | ☼ | 08/13/18 13:56 | 08/13/18 18:11 | 1 |
| Benzo[g,h,i]perylene | 28 | | 10 | | ug/Kg | ☼ | 08/13/18 13:56 | 08/13/18 18:11 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-------------------------|-----------|-----------|----------|----------------|----------------|---------|
| Nitrobenzene-d5 | 81 | | 23 - 120 | 08/13/18 13:56 | 08/13/18 18:11 | 1 |
| 2-Fluorobiphenyl (Surr) | 83 | | 38 - 123 | 08/13/18 13:56 | 08/13/18 18:11 | 1 |
| p-Terphenyl-d14 | 96 | | 68 - 136 | 08/13/18 13:56 | 08/13/18 18:11 | 1 |

Client Sample ID: TP-17-6

Date Collected: 08/02/18 10:50

Date Received: 08/02/18 14:45

Lab Sample ID: 590-9053-11

Matrix: Solid

Method: 6010C - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|-----|-----|-------|---|----------------|----------------|---------|
| Arsenic | 11 | | 1.9 | | mg/Kg | | 08/13/18 15:40 | 08/07/18 12:54 | 2 |
| Barium | 230 | | 1.9 | | mg/Kg | | 08/13/18 15:40 | 08/07/18 12:54 | 2 |
| Cadmium | ND | | 1.5 | | mg/Kg | | 08/13/18 15:40 | 08/07/18 12:54 | 2 |

TestAmerica Spokane

Client Sample Results

Client: Hart Crowser, Inc.
Project/Site: Focused Phase II ESA

TestAmerica Job ID: 590-9053-3

Client Sample ID: TP-17-6

Date Collected: 08/02/18 10:50

Date Received: 08/02/18 14:45

Lab Sample ID: 590-9053-11

Matrix: Solid

Method: 6010C - Metals (ICP) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------|-----------|-----------|-----|-----|-------|---|----------------|----------------|---------|
| Chromium | 14 | | 1.9 | | mg/Kg | | 08/13/18 15:40 | 08/07/18 12:54 | 2 |
| Selenium | ND | | 7.6 | | mg/Kg | | 08/13/18 15:40 | 08/07/18 12:54 | 2 |
| Silver | ND | | 1.9 | | mg/Kg | | 08/13/18 15:40 | 08/07/18 12:54 | 2 |

Method: 7471B - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|----|-----|-------|---|----------------|----------------|---------|
| Mercury | ND | | 46 | | ug/Kg | | 08/15/18 09:01 | 08/15/18 15:24 | 1 |

Client Sample ID: TP-18-6

Date Collected: 08/02/18 10:50

Date Received: 08/02/18 14:45

Lab Sample ID: 590-9053-35

Matrix: Solid

Method: 6010C - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------|------------|-----------|-----|-----|-------|---|----------------|----------------|---------|
| Arsenic | 9.4 | | 2.0 | | mg/Kg | | 08/13/18 15:40 | 08/07/18 13:48 | 2 |
| Barium | 160 | | 2.0 | | mg/Kg | | 08/13/18 15:40 | 08/07/18 13:48 | 2 |
| Cadmium | ND | | 1.6 | | mg/Kg | | 08/13/18 15:40 | 08/07/18 13:48 | 2 |
| Chromium | 11 | | 2.0 | | mg/Kg | | 08/13/18 15:40 | 08/07/18 13:48 | 2 |
| Selenium | ND ^ | | 7.9 | | mg/Kg | | 08/13/18 15:40 | 08/07/18 13:48 | 2 |
| Silver | ND | | 2.0 | | mg/Kg | | 08/13/18 15:40 | 08/07/18 13:48 | 2 |

Method: 7471B - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|----|-----|-------|---|----------------|----------------|---------|
| Mercury | ND | | 39 | | ug/Kg | | 08/15/18 09:01 | 08/15/18 15:26 | 1 |

Client Sample ID: TP-14-6

Date Collected: 08/02/18 11:30

Date Received: 08/02/18 14:45

Lab Sample ID: 590-9053-39

Matrix: Solid

Percent Solids: 94.8

Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------------|-----------|-----------|----|-----|-------|---|----------------|----------------|---------|
| Naphthalene | ND | | 10 | | ug/Kg | ☼ | 08/13/18 13:56 | 08/13/18 18:36 | 1 |
| 2-Methylnaphthalene | ND | | 10 | | ug/Kg | ☼ | 08/13/18 13:56 | 08/13/18 18:36 | 1 |
| 1-Methylnaphthalene | ND | | 10 | | ug/Kg | ☼ | 08/13/18 13:56 | 08/13/18 18:36 | 1 |
| Acenaphthylene | ND | | 10 | | ug/Kg | ☼ | 08/13/18 13:56 | 08/13/18 18:36 | 1 |
| Acenaphthene | ND | | 10 | | ug/Kg | ☼ | 08/13/18 13:56 | 08/13/18 18:36 | 1 |
| Fluorene | ND | | 10 | | ug/Kg | ☼ | 08/13/18 13:56 | 08/13/18 18:36 | 1 |
| Phenanthrene | 10 | | 10 | | ug/Kg | ☼ | 08/13/18 13:56 | 08/13/18 18:36 | 1 |
| Anthracene | ND | | 10 | | ug/Kg | ☼ | 08/13/18 13:56 | 08/13/18 18:36 | 1 |
| Fluoranthene | 24 | | 10 | | ug/Kg | ☼ | 08/13/18 13:56 | 08/13/18 18:36 | 1 |
| Pyrene | 29 | | 10 | | ug/Kg | ☼ | 08/13/18 13:56 | 08/13/18 18:36 | 1 |
| Benzo[a]anthracene | 19 | | 10 | | ug/Kg | ☼ | 08/13/18 13:56 | 08/13/18 18:36 | 1 |
| Chrysene | 28 | | 10 | | ug/Kg | ☼ | 08/13/18 13:56 | 08/13/18 18:36 | 1 |
| Benzo[b]fluoranthene | 31 | | 10 | | ug/Kg | ☼ | 08/13/18 13:56 | 08/13/18 18:36 | 1 |
| Benzo[k]fluoranthene | 13 | | 10 | | ug/Kg | ☼ | 08/13/18 13:56 | 08/13/18 18:36 | 1 |
| Benzo[a]pyrene | 28 | | 10 | | ug/Kg | ☼ | 08/13/18 13:56 | 08/13/18 18:36 | 1 |
| Indeno[1,2,3-cd]pyrene | 18 | | 10 | | ug/Kg | ☼ | 08/13/18 13:56 | 08/13/18 18:36 | 1 |
| Dibenz(a,h)anthracene | ND | | 10 | | ug/Kg | ☼ | 08/13/18 13:56 | 08/13/18 18:36 | 1 |
| Benzo[g,h,i]perylene | 24 | | 10 | | ug/Kg | ☼ | 08/13/18 13:56 | 08/13/18 18:36 | 1 |

TestAmerica Spokane

Client Sample Results

Client: Hart Crowser, Inc.
Project/Site: Focused Phase II ESA

TestAmerica Job ID: 590-9053-3

Client Sample ID: TP-14-6

Date Collected: 08/02/18 11:30

Date Received: 08/02/18 14:45

Lab Sample ID: 590-9053-39

Matrix: Solid

Percent Solids: 94.8

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-------------------------|-----------|-----------|----------|----------------|----------------|---------|
| Nitrobenzene-d5 | 75 | | 23 - 120 | 08/13/18 13:56 | 08/13/18 18:36 | 1 |
| 2-Fluorobiphenyl (Surr) | 77 | | 38 - 123 | 08/13/18 13:56 | 08/13/18 18:36 | 1 |
| p-Terphenyl-d14 | 90 | | 68 - 136 | 08/13/18 13:56 | 08/13/18 18:36 | 1 |

Client Sample ID: TP-12-6

Date Collected: 08/02/18 11:50

Date Received: 08/02/18 14:45

Lab Sample ID: 590-9053-41

Matrix: Solid

Percent Solids: 96.0

Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------------|-----------|-----------|----|-----|-------|---|----------------|----------------|---------|
| Naphthalene | ND | | 10 | | ug/Kg | ☼ | 08/13/18 13:56 | 08/13/18 19:01 | 1 |
| 2-Methylnaphthalene | ND | | 10 | | ug/Kg | ☼ | 08/13/18 13:56 | 08/13/18 19:01 | 1 |
| 1-Methylnaphthalene | ND | | 10 | | ug/Kg | ☼ | 08/13/18 13:56 | 08/13/18 19:01 | 1 |
| Acenaphthylene | ND | | 10 | | ug/Kg | ☼ | 08/13/18 13:56 | 08/13/18 19:01 | 1 |
| Acenaphthene | ND | | 10 | | ug/Kg | ☼ | 08/13/18 13:56 | 08/13/18 19:01 | 1 |
| Fluorene | ND | | 10 | | ug/Kg | ☼ | 08/13/18 13:56 | 08/13/18 19:01 | 1 |
| Phenanthrene | 14 | | 10 | | ug/Kg | ☼ | 08/13/18 13:56 | 08/13/18 19:01 | 1 |
| Anthracene | ND | | 10 | | ug/Kg | ☼ | 08/13/18 13:56 | 08/13/18 19:01 | 1 |
| Fluoranthene | 32 | | 10 | | ug/Kg | ☼ | 08/13/18 13:56 | 08/13/18 19:01 | 1 |
| Pyrene | 39 | | 10 | | ug/Kg | ☼ | 08/13/18 13:56 | 08/13/18 19:01 | 1 |
| Benzo[a]anthracene | 26 | | 10 | | ug/Kg | ☼ | 08/13/18 13:56 | 08/13/18 19:01 | 1 |
| Chrysene | 37 | | 10 | | ug/Kg | ☼ | 08/13/18 13:56 | 08/13/18 19:01 | 1 |
| Benzo[b]fluoranthene | 41 | | 10 | | ug/Kg | ☼ | 08/13/18 13:56 | 08/13/18 19:01 | 1 |
| Benzo[k]fluoranthene | 19 | | 10 | | ug/Kg | ☼ | 08/13/18 13:56 | 08/13/18 19:01 | 1 |
| Benzo[a]pyrene | 38 | | 10 | | ug/Kg | ☼ | 08/13/18 13:56 | 08/13/18 19:01 | 1 |
| Indeno[1,2,3-cd]pyrene | 24 | | 10 | | ug/Kg | ☼ | 08/13/18 13:56 | 08/13/18 19:01 | 1 |
| Dibenz(a,h)anthracene | ND | | 10 | | ug/Kg | ☼ | 08/13/18 13:56 | 08/13/18 19:01 | 1 |
| Benzo[g,h,i]perylene | 31 | | 10 | | ug/Kg | ☼ | 08/13/18 13:56 | 08/13/18 19:01 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-------------------------|-----------|-----------|----------|----------------|----------------|---------|
| Nitrobenzene-d5 | 79 | | 23 - 120 | 08/13/18 13:56 | 08/13/18 19:01 | 1 |
| 2-Fluorobiphenyl (Surr) | 84 | | 38 - 123 | 08/13/18 13:56 | 08/13/18 19:01 | 1 |
| p-Terphenyl-d14 | 90 | | 68 - 136 | 08/13/18 13:56 | 08/13/18 19:01 | 1 |

Method: 6010C - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------|------------|-----------|-----|-----|-------|---|----------------|----------------|---------|
| Arsenic | 13 | | 1.7 | | mg/Kg | | 08/03/18 09:22 | 08/07/18 14:27 | 2 |
| Barium | 190 | | 1.7 | | mg/Kg | | 08/03/18 09:22 | 08/07/18 14:27 | 2 |
| Cadmium | ND | | 1.4 | | mg/Kg | | 08/03/18 09:22 | 08/07/18 14:27 | 2 |
| Chromium | 13 | | 1.7 | | mg/Kg | | 08/03/18 09:22 | 08/07/18 14:27 | 2 |
| Selenium | ND | ^ | 6.9 | | mg/Kg | | 08/03/18 09:22 | 08/07/18 14:27 | 2 |
| Silver | ND | | 1.7 | | mg/Kg | | 08/03/18 09:22 | 08/07/18 14:27 | 2 |

Method: 7471B - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|----|-----|-------|---|----------------|----------------|---------|
| Mercury | ND | | 41 | | ug/Kg | | 08/15/18 09:01 | 08/15/18 15:28 | 1 |

TestAmerica Spokane

Client Sample Results

Client: Hart Crowser, Inc.
Project/Site: Focused Phase II ESA

TestAmerica Job ID: 590-9053-3

Client Sample ID: TP-6-6

Lab Sample ID: 590-9053-43

Date Collected: 08/02/18 12:25

Matrix: Solid

Date Received: 08/02/18 14:45

Percent Solids: 96.6

Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------------|-----------|-----------|----|-----|-------|---|----------------|----------------|---------|
| Naphthalene | ND | | 10 | | ug/Kg | ☼ | 08/13/18 13:56 | 08/13/18 19:26 | 1 |
| 2-Methylnaphthalene | ND | | 10 | | ug/Kg | ☼ | 08/13/18 13:56 | 08/13/18 19:26 | 1 |
| 1-Methylnaphthalene | ND | | 10 | | ug/Kg | ☼ | 08/13/18 13:56 | 08/13/18 19:26 | 1 |
| Acenaphthylene | ND | | 10 | | ug/Kg | ☼ | 08/13/18 13:56 | 08/13/18 19:26 | 1 |
| Acenaphthene | ND | | 10 | | ug/Kg | ☼ | 08/13/18 13:56 | 08/13/18 19:26 | 1 |
| Fluorene | ND | | 10 | | ug/Kg | ☼ | 08/13/18 13:56 | 08/13/18 19:26 | 1 |
| Phenanthrene | ND | | 10 | | ug/Kg | ☼ | 08/13/18 13:56 | 08/13/18 19:26 | 1 |
| Anthracene | ND | | 10 | | ug/Kg | ☼ | 08/13/18 13:56 | 08/13/18 19:26 | 1 |
| Fluoranthene | 17 | | 10 | | ug/Kg | ☼ | 08/13/18 13:56 | 08/13/18 19:26 | 1 |
| Pyrene | 18 | | 10 | | ug/Kg | ☼ | 08/13/18 13:56 | 08/13/18 19:26 | 1 |
| Benzo[a]anthracene | 13 | | 10 | | ug/Kg | ☼ | 08/13/18 13:56 | 08/13/18 19:26 | 1 |
| Chrysene | 19 | | 10 | | ug/Kg | ☼ | 08/13/18 13:56 | 08/13/18 19:26 | 1 |
| Benzo[b]fluoranthene | 21 | | 10 | | ug/Kg | ☼ | 08/13/18 13:56 | 08/13/18 19:26 | 1 |
| Benzo[k]fluoranthene | ND | | 10 | | ug/Kg | ☼ | 08/13/18 13:56 | 08/13/18 19:26 | 1 |
| Benzo[a]pyrene | 19 | | 10 | | ug/Kg | ☼ | 08/13/18 13:56 | 08/13/18 19:26 | 1 |
| Indeno[1,2,3-cd]pyrene | 12 | | 10 | | ug/Kg | ☼ | 08/13/18 13:56 | 08/13/18 19:26 | 1 |
| Dibenz(a,h)anthracene | ND | | 10 | | ug/Kg | ☼ | 08/13/18 13:56 | 08/13/18 19:26 | 1 |
| Benzo[g,h,i]perylene | 16 | | 10 | | ug/Kg | ☼ | 08/13/18 13:56 | 08/13/18 19:26 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-------------------------|-----------|-----------|----------|----------------|----------------|---------|
| Nitrobenzene-d5 | 79 | | 23 - 120 | 08/13/18 13:56 | 08/13/18 19:26 | 1 |
| 2-Fluorobiphenyl (Surr) | 82 | | 38 - 123 | 08/13/18 13:56 | 08/13/18 19:26 | 1 |
| p-Terphenyl-d14 | 93 | | 68 - 136 | 08/13/18 13:56 | 08/13/18 19:26 | 1 |

QC Sample Results

Client: Hart Crowser, Inc.
Project/Site: Focused Phase II ESA

TestAmerica Job ID: 590-9053-3

Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM)

Lab Sample ID: MB 590-18291/1-A
Matrix: Solid
Analysis Batch: 18295

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 18291

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------|-----------|--------------|----|-----|-------|---|----------------|----------------|---------|
| Naphthalene | ND | | 10 | | ug/Kg | | 08/13/18 13:56 | 08/13/18 16:07 | 1 |
| 2-Methylnaphthalene | ND | | 10 | | ug/Kg | | 08/13/18 13:56 | 08/13/18 16:07 | 1 |
| 1-Methylnaphthalene | ND | | 10 | | ug/Kg | | 08/13/18 13:56 | 08/13/18 16:07 | 1 |
| Acenaphthylene | ND | | 10 | | ug/Kg | | 08/13/18 13:56 | 08/13/18 16:07 | 1 |
| Acenaphthene | ND | | 10 | | ug/Kg | | 08/13/18 13:56 | 08/13/18 16:07 | 1 |
| Fluorene | ND | | 10 | | ug/Kg | | 08/13/18 13:56 | 08/13/18 16:07 | 1 |
| Phenanthrene | ND | | 10 | | ug/Kg | | 08/13/18 13:56 | 08/13/18 16:07 | 1 |
| Anthracene | ND | | 10 | | ug/Kg | | 08/13/18 13:56 | 08/13/18 16:07 | 1 |
| Fluoranthene | ND | | 10 | | ug/Kg | | 08/13/18 13:56 | 08/13/18 16:07 | 1 |
| Pyrene | ND | | 10 | | ug/Kg | | 08/13/18 13:56 | 08/13/18 16:07 | 1 |
| Benzo[a]anthracene | ND | | 10 | | ug/Kg | | 08/13/18 13:56 | 08/13/18 16:07 | 1 |
| Chrysene | ND | | 10 | | ug/Kg | | 08/13/18 13:56 | 08/13/18 16:07 | 1 |
| Benzo[b]fluoranthene | ND | | 10 | | ug/Kg | | 08/13/18 13:56 | 08/13/18 16:07 | 1 |
| Benzo[k]fluoranthene | ND | | 10 | | ug/Kg | | 08/13/18 13:56 | 08/13/18 16:07 | 1 |
| Benzo[a]pyrene | ND | | 10 | | ug/Kg | | 08/13/18 13:56 | 08/13/18 16:07 | 1 |
| Indeno[1,2,3-cd]pyrene | ND | | 10 | | ug/Kg | | 08/13/18 13:56 | 08/13/18 16:07 | 1 |
| Dibenz(a,h)anthracene | ND | | 10 | | ug/Kg | | 08/13/18 13:56 | 08/13/18 16:07 | 1 |
| Benzo[g,h,i]perylene | ND | | 10 | | ug/Kg | | 08/13/18 13:56 | 08/13/18 16:07 | 1 |

| Surrogate | MB %Recovery | MB Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-------------------------|--------------|--------------|----------|----------------|----------------|---------|
| Nitrobenzene-d5 | 99 | | 23 - 120 | 08/13/18 13:56 | 08/13/18 16:07 | 1 |
| 2-Fluorobiphenyl (Surr) | 106 | | 38 - 123 | 08/13/18 13:56 | 08/13/18 16:07 | 1 |
| p-Terphenyl-d14 | 115 | | 68 - 136 | 08/13/18 13:56 | 08/13/18 16:07 | 1 |

Lab Sample ID: LCS 590-18291/2-A
Matrix: Solid
Analysis Batch: 18295

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 18291

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|------------------------|-------------|------------|---------------|-------|---|------|--------------|
| Naphthalene | 267 | 214 | | ug/Kg | | 80 | 41 - 121 |
| 2-Methylnaphthalene | 267 | 219 | | ug/Kg | | 82 | 39 - 132 |
| 1-Methylnaphthalene | 267 | 259 | | ug/Kg | | 97 | 46 - 131 |
| Acenaphthylene | 267 | 215 | | ug/Kg | | 81 | 56 - 123 |
| Acenaphthene | 267 | 231 | | ug/Kg | | 87 | 43 - 140 |
| Fluorene | 267 | 254 | | ug/Kg | | 95 | 54 - 131 |
| Phenanthrene | 267 | 231 | | ug/Kg | | 87 | 55 - 141 |
| Anthracene | 267 | 252 | | ug/Kg | | 95 | 60 - 129 |
| Fluoranthene | 267 | 264 | | ug/Kg | | 99 | 63 - 141 |
| Pyrene | 267 | 250 | | ug/Kg | | 94 | 62 - 139 |
| Benzo[a]anthracene | 267 | 257 | | ug/Kg | | 96 | 61 - 136 |
| Chrysene | 267 | 256 | | ug/Kg | | 96 | 57 - 144 |
| Benzo[b]fluoranthene | 267 | 264 | | ug/Kg | | 99 | 66 - 141 |
| Benzo[k]fluoranthene | 267 | 250 | | ug/Kg | | 94 | 63 - 150 |
| Benzo[a]pyrene | 267 | 255 | | ug/Kg | | 96 | 60 - 133 |
| Indeno[1,2,3-cd]pyrene | 267 | 269 | | ug/Kg | | 101 | 55 - 142 |
| Dibenz(a,h)anthracene | 267 | 269 | | ug/Kg | | 101 | 60 - 150 |
| Benzo[g,h,i]perylene | 267 | 267 | | ug/Kg | | 100 | 58 - 147 |

TestAmerica Spokane

QC Sample Results

Client: Hart Crowser, Inc.
Project/Site: Focused Phase II ESA

TestAmerica Job ID: 590-9053-3

Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Lab Sample ID: LCS 590-18291/2-A
Matrix: Solid
Analysis Batch: 18295

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 18291

| Surrogate | LCS %Recovery | LCS Qualifier | Limits |
|-------------------------|---------------|---------------|----------|
| Nitrobenzene-d5 | 90 | | 23 - 120 |
| 2-Fluorobiphenyl (Surr) | 92 | | 38 - 123 |
| p-Terphenyl-d14 | 97 | | 68 - 136 |

Lab Sample ID: LCSD 590-18291/3-A
Matrix: Solid
Analysis Batch: 18295

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 18291

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|------------------------|-------------|-------------|----------------|-------|---|------|--------------|-----|-----------|
| Naphthalene | 267 | 208 | | ug/Kg | | 78 | 41 - 121 | 3 | 35 |
| 2-Methylnaphthalene | 267 | 229 | | ug/Kg | | 86 | 39 - 132 | 4 | 35 |
| 1-Methylnaphthalene | 267 | 250 | | ug/Kg | | 94 | 46 - 131 | 4 | 35 |
| Acenaphthylene | 267 | 211 | | ug/Kg | | 79 | 56 - 123 | 2 | 35 |
| Acenaphthene | 267 | 209 | | ug/Kg | | 78 | 43 - 140 | 10 | 35 |
| Fluorene | 267 | 258 | | ug/Kg | | 97 | 54 - 131 | 1 | 35 |
| Phenanthrene | 267 | 214 | | ug/Kg | | 80 | 55 - 141 | 7 | 35 |
| Anthracene | 267 | 241 | | ug/Kg | | 90 | 60 - 129 | 5 | 35 |
| Fluoranthene | 267 | 240 | | ug/Kg | | 90 | 63 - 141 | 9 | 35 |
| Pyrene | 267 | 254 | | ug/Kg | | 95 | 62 - 139 | 1 | 35 |
| Benzo[a]anthracene | 267 | 244 | | ug/Kg | | 91 | 61 - 136 | 5 | 35 |
| Chrysene | 267 | 252 | | ug/Kg | | 94 | 57 - 144 | 2 | 35 |
| Benzo[b]fluoranthene | 267 | 242 | | ug/Kg | | 91 | 66 - 141 | 9 | 35 |
| Benzo[k]fluoranthene | 267 | 243 | | ug/Kg | | 91 | 63 - 150 | 3 | 35 |
| Benzo[a]pyrene | 267 | 239 | | ug/Kg | | 90 | 60 - 133 | 6 | 35 |
| Indeno[1,2,3-cd]pyrene | 267 | 248 | | ug/Kg | | 93 | 55 - 142 | 8 | 35 |
| Dibenz(a,h)anthracene | 267 | 249 | | ug/Kg | | 93 | 60 - 150 | 8 | 35 |
| Benzo[g,h,i]perylene | 267 | 257 | | ug/Kg | | 96 | 58 - 147 | 4 | 35 |

| Surrogate | LCSD %Recovery | LCSD Qualifier | Limits |
|-------------------------|----------------|----------------|----------|
| Nitrobenzene-d5 | 87 | | 23 - 120 |
| 2-Fluorobiphenyl (Surr) | 89 | | 38 - 123 |
| p-Terphenyl-d14 | 98 | | 68 - 136 |

Lab Sample ID: 590-9053-5 MS
Matrix: Solid
Analysis Batch: 18295

Client Sample ID: TP-21-6
Prep Type: Total/NA
Prep Batch: 18291

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---------------------|---------------|------------------|-------------|-----------|--------------|-------|---|------|--------------|
| Naphthalene | ND | | 271 | 199 | | ug/Kg | ☼ | 74 | 41 - 121 |
| 2-Methylnaphthalene | ND | | 271 | 204 | | ug/Kg | ☼ | 75 | 39 - 132 |
| 1-Methylnaphthalene | ND | | 271 | 233 | | ug/Kg | ☼ | 86 | 46 - 131 |
| Acenaphthylene | ND | | 271 | 188 | | ug/Kg | ☼ | 70 | 56 - 123 |
| Acenaphthene | ND | | 271 | 201 | | ug/Kg | ☼ | 73 | 43 - 140 |
| Fluorene | ND | | 271 | 223 | | ug/Kg | ☼ | 82 | 54 - 131 |
| Phenanthrene | 16 | | 271 | 224 | | ug/Kg | ☼ | 77 | 55 - 141 |
| Anthracene | ND | | 271 | 222 | | ug/Kg | ☼ | 80 | 60 - 129 |
| Fluoranthene | 32 | | 271 | 248 | | ug/Kg | ☼ | 80 | 63 - 141 |
| Pyrene | 46 | | 271 | 243 | | ug/Kg | ☼ | 73 | 62 - 139 |

TestAmerica Spokane

QC Sample Results

Client: Hart Crowser, Inc.
Project/Site: Focused Phase II ESA

TestAmerica Job ID: 590-9053-3

Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Lab Sample ID: 590-9053-5 MS
Matrix: Solid
Analysis Batch: 18295

Client Sample ID: TP-21-6
Prep Type: Total/NA
Prep Batch: 18291

| Analyte | Sample | Sample | Spike | MS | MS | Unit | D | %Rec | %Rec. | |
|------------------------|--------|-----------|-------|--------|-----------|-------|---|------|----------|--------|
| | Result | Qualifier | Added | Result | Qualifier | | | | Limits | Limits |
| Benzo[a]anthracene | 26 | | 271 | 250 | | ug/Kg | ☼ | 83 | 61 - 136 | |
| Chrysene | 36 | | 271 | 254 | | ug/Kg | ☼ | 81 | 57 - 144 | |
| Benzo[b]fluoranthene | 37 | | 271 | 258 | | ug/Kg | ☼ | 82 | 66 - 141 | |
| Benzo[k]fluoranthene | 16 | | 271 | 229 | | ug/Kg | ☼ | 79 | 63 - 150 | |
| Benzo[a]pyrene | 36 | | 271 | 243 | | ug/Kg | ☼ | 76 | 60 - 133 | |
| Indeno[1,2,3-cd]pyrene | 22 | | 271 | 250 | | ug/Kg | ☼ | 84 | 55 - 142 | |
| Dibenz(a,h)anthracene | ND | | 271 | 245 | | ug/Kg | ☼ | 87 | 60 - 150 | |
| Benzo[g,h,i]perylene | 28 | | 271 | 258 | | ug/Kg | ☼ | 85 | 58 - 147 | |

| Surrogate | MS %Recovery | MS Qualifier | Limits |
|-------------------------|--------------|--------------|----------|
| Nitrobenzene-d5 | 80 | | 23 - 120 |
| 2-Fluorobiphenyl (Surr) | 78 | | 38 - 123 |
| p-Terphenyl-d14 | 85 | | 68 - 136 |

Lab Sample ID: 590-9053-5 MSD
Matrix: Solid
Analysis Batch: 18295

Client Sample ID: TP-21-6
Prep Type: Total/NA
Prep Batch: 18291

| Analyte | Sample | Sample | Spike | MSD | MSD | Unit | D | %Rec | %Rec. | | RPD | |
|------------------------|--------|-----------|-------|--------|-----------|-------|---|------|----------|--------|-----|-------|
| | Result | Qualifier | Added | Result | Qualifier | | | | Limits | Limits | RPD | Limit |
| Naphthalene | ND | | 273 | 207 | | ug/Kg | ☼ | 76 | 41 - 121 | | 4 | 35 |
| 2-Methylnaphthalene | ND | | 273 | 219 | | ug/Kg | ☼ | 80 | 39 - 132 | | 7 | 35 |
| 1-Methylnaphthalene | ND | | 273 | 248 | | ug/Kg | ☼ | 91 | 46 - 131 | | 6 | 35 |
| Acenaphthylene | ND | | 273 | 204 | | ug/Kg | ☼ | 75 | 56 - 123 | | 8 | 35 |
| Acenaphthene | ND | | 273 | 213 | | ug/Kg | ☼ | 77 | 43 - 140 | | 6 | 35 |
| Fluorene | ND | | 273 | 248 | | ug/Kg | ☼ | 91 | 54 - 131 | | 11 | 35 |
| Phenanthrene | 16 | | 273 | 232 | | ug/Kg | ☼ | 79 | 55 - 141 | | 4 | 35 |
| Anthracene | ND | | 273 | 241 | | ug/Kg | ☼ | 87 | 60 - 129 | | 8 | 35 |
| Fluoranthene | 32 | | 273 | 259 | | ug/Kg | ☼ | 83 | 63 - 141 | | 4 | 35 |
| Pyrene | 46 | | 273 | 257 | | ug/Kg | ☼ | 78 | 62 - 139 | | 6 | 35 |
| Benzo[a]anthracene | 26 | | 273 | 260 | | ug/Kg | ☼ | 86 | 61 - 136 | | 4 | 35 |
| Chrysene | 36 | | 273 | 252 | | ug/Kg | ☼ | 79 | 57 - 144 | | 1 | 35 |
| Benzo[b]fluoranthene | 37 | | 273 | 254 | | ug/Kg | ☼ | 80 | 66 - 141 | | 2 | 35 |
| Benzo[k]fluoranthene | 16 | | 273 | 229 | | ug/Kg | ☼ | 78 | 63 - 150 | | 0 | 35 |
| Benzo[a]pyrene | 36 | | 273 | 248 | | ug/Kg | ☼ | 77 | 60 - 133 | | 2 | 35 |
| Indeno[1,2,3-cd]pyrene | 22 | | 273 | 256 | | ug/Kg | ☼ | 86 | 55 - 142 | | 2 | 35 |
| Dibenz(a,h)anthracene | ND | | 273 | 241 | | ug/Kg | ☼ | 85 | 60 - 150 | | 2 | 35 |
| Benzo[g,h,i]perylene | 28 | | 273 | 258 | | ug/Kg | ☼ | 85 | 58 - 147 | | 0 | 35 |

| Surrogate | MSD %Recovery | MSD Qualifier | Limits |
|-------------------------|---------------|---------------|----------|
| Nitrobenzene-d5 | 78 | | 23 - 120 |
| 2-Fluorobiphenyl (Surr) | 86 | | 38 - 123 |
| p-Terphenyl-d14 | 86 | | 68 - 136 |

QC Sample Results

Client: Hart Crowser, Inc.
Project/Site: Focused Phase II ESA

TestAmerica Job ID: 590-9053-3

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 590-18093/2-A
Matrix: Solid
Analysis Batch: 18143

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 18093

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|-----------|--------------|-----|-----|-------|---|----------------|----------------|---------|
| Arsenic | ND | | 1.3 | | mg/Kg | | 08/03/18 09:19 | 08/06/18 20:11 | 1 |
| Barium | ND | | 1.3 | | mg/Kg | | 08/03/18 09:19 | 08/06/18 20:11 | 1 |
| Cadmium | ND | | 1.0 | | mg/Kg | | 08/03/18 09:19 | 08/06/18 20:11 | 1 |
| Chromium | ND | | 1.3 | | mg/Kg | | 08/03/18 09:19 | 08/06/18 20:11 | 1 |
| Selenium | ND | | 5.0 | | mg/Kg | | 08/03/18 09:19 | 08/06/18 20:11 | 1 |
| Silver | ND | | 1.3 | | mg/Kg | | 08/03/18 09:19 | 08/06/18 20:11 | 1 |

Lab Sample ID: LCS 590-18093/1-A
Matrix: Solid
Analysis Batch: 18143

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 18093

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|----------|-------------|------------|---------------|-------|---|------|--------------|
| Arsenic | 50.0 | 45.3 | | mg/Kg | | 91 | 80 - 120 |
| Barium | 50.0 | 49.9 | | mg/Kg | | 100 | 80 - 120 |
| Cadmium | 50.0 | 49.1 | | mg/Kg | | 98 | 80 - 120 |
| Chromium | 50.0 | 48.6 | | mg/Kg | | 97 | 80 - 120 |
| Selenium | 50.0 | 45.0 | | mg/Kg | | 90 | 80 - 120 |
| Silver | 50.0 | 48.7 | | mg/Kg | | 97 | 80 - 120 |

Lab Sample ID: 590-9053-1 MS
Matrix: Solid
Analysis Batch: 18163

Client Sample ID: TP-19-6
Prep Type: Total/NA
Prep Batch: 18093

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|----------|---------------|------------------|-------------|-----------|--------------|-------|---|------|--------------|
| Arsenic | 21 | F1 | 47.2 | 47.2 | F1 | mg/Kg | | 56 | 75 - 125 |
| Barium | 190 | F1 | 47.2 | 181 | F1 | mg/Kg | | -9 | 75 - 125 |
| Cadmium | ND | F1 | 47.2 | 33.6 | F1 | mg/Kg | | 71 | 75 - 125 |
| Chromium | 14 | F1 | 47.2 | 45.5 | F1 | mg/Kg | | 67 | 75 - 125 |
| Selenium | ND | F1 | 47.2 | 30.6 | F1 | mg/Kg | | 65 | 75 - 125 |
| Silver | ND | F1 | 47.2 | 33.7 | F1 | mg/Kg | | 71 | 75 - 125 |

Lab Sample ID: 590-9053-1 MSD
Matrix: Solid
Analysis Batch: 18163

Client Sample ID: TP-19-6
Prep Type: Total/NA
Prep Batch: 18093

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|----------|---------------|------------------|-------------|------------|---------------|-------|---|------|--------------|-----|-----------|
| Arsenic | 21 | F1 | 48.5 | 52.1 | F1 | mg/Kg | | 65 | 75 - 125 | 10 | 20 |
| Barium | 190 | F1 | 48.5 | 199 | F1 | mg/Kg | | 28 | 75 - 125 | 9 | 20 |
| Cadmium | ND | F1 | 48.5 | 37.3 | | mg/Kg | | 76 | 75 - 125 | 10 | 20 |
| Chromium | 14 | F1 | 48.5 | 50.1 | | mg/Kg | | 75 | 75 - 125 | 10 | 20 |
| Selenium | ND | F1 | 48.5 | 33.3 | F1 | mg/Kg | | 69 | 75 - 125 | 8 | 20 |
| Silver | ND | F1 | 48.5 | 37.5 | | mg/Kg | | 77 | 75 - 125 | 11 | 20 |

Lab Sample ID: 590-9053-1 DU
Matrix: Solid
Analysis Batch: 18163

Client Sample ID: TP-19-6
Prep Type: Total/NA
Prep Batch: 18093

| Analyte | Sample Result | Sample Qualifier | DU Result | DU Qualifier | Unit | D | RPD | RPD Limit |
|---------|---------------|------------------|-----------|--------------|-------|---|-----|-----------|
| Arsenic | 21 | F1 | 18.5 | | mg/Kg | | 11 | 20 |

TestAmerica Spokane

QC Sample Results

Client: Hart Crowser, Inc.
Project/Site: Focused Phase II ESA

TestAmerica Job ID: 590-9053-3

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: 590-9053-1 DU
Matrix: Solid
Analysis Batch: 18163

Client Sample ID: TP-19-6
Prep Type: Total/NA
Prep Batch: 18093

| Analyte | Sample | | DU | | Unit | D | RPD | |
|----------|--------|-----------|--------|-----------|-------|---|-----|-------|
| | Result | Qualifier | Result | Qualifier | | | RPD | Limit |
| Barium | 190 | F1 | 183 | | mg/Kg | | 1 | 20 |
| Cadmium | ND | F1 | ND | | mg/Kg | | NC | 20 |
| Chromium | 14 | F1 | 13.7 | | mg/Kg | | 0.6 | 20 |
| Selenium | ND | F1 | ND | | mg/Kg | | NC | 20 |
| Silver | ND | F1 | ND | | mg/Kg | | NC | 20 |

Lab Sample ID: MB 590-18095/2-A
Matrix: Solid
Analysis Batch: 18143

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 18095

| Analyte | MB | | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|-----|-----|-------|---|----------------|----------------|---------|
| | Result | Qualifier | | | | | | | |
| Arsenic | ND | | 1.3 | | mg/Kg | | 08/03/18 09:22 | 08/06/18 22:08 | 1 |
| Barium | ND | | 1.3 | | mg/Kg | | 08/03/18 09:22 | 08/06/18 22:08 | 1 |
| Cadmium | ND | | 1.0 | | mg/Kg | | 08/03/18 09:22 | 08/06/18 22:08 | 1 |
| Chromium | ND | | 1.3 | | mg/Kg | | 08/03/18 09:22 | 08/06/18 22:08 | 1 |
| Selenium | ND | | 5.0 | | mg/Kg | | 08/03/18 09:22 | 08/06/18 22:08 | 1 |
| Silver | ND | | 1.3 | | mg/Kg | | 08/03/18 09:22 | 08/06/18 22:08 | 1 |

Lab Sample ID: LCS 590-18095/1-A
Matrix: Solid
Analysis Batch: 18143

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 18095

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits | |
|----------|-------------|------------|---------------|-------|---|------|--------------|--|
| | | | | | | | | |
| Arsenic | 50.0 | 47.0 | | mg/Kg | | 94 | 80 - 120 | |
| Barium | 50.0 | 49.6 | | mg/Kg | | 99 | 80 - 120 | |
| Cadmium | 50.0 | 51.6 | | mg/Kg | | 103 | 80 - 120 | |
| Chromium | 50.0 | 49.5 | | mg/Kg | | 99 | 80 - 120 | |
| Selenium | 50.0 | 46.7 | | mg/Kg | | 93 | 80 - 120 | |
| Silver | 50.0 | 48.8 | | mg/Kg | | 98 | 80 - 120 | |

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 590-18332/9-A
Matrix: Solid
Analysis Batch: 18347

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 18332

| Analyte | MB | | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|----|-----|-------|---|----------------|----------------|---------|
| | Result | Qualifier | | | | | | | |
| Mercury | ND | | 50 | | ug/Kg | | 08/15/18 09:01 | 08/15/18 15:12 | 1 |

Lab Sample ID: LCS 590-18332/8-A
Matrix: Solid
Analysis Batch: 18347

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 18332

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits | |
|---------|-------------|------------|---------------|-------|---|------|--------------|--|
| | | | | | | | | |
| Mercury | 200 | 179 | | ug/Kg | | 90 | 80 - 120 | |

TestAmerica Spokane

QC Sample Results

Client: Hart Crowser, Inc.
 Project/Site: Focused Phase II ESA

TestAmerica Job ID: 590-9053-3

Method: 7471B - Mercury (CVAA) (Continued)

Lab Sample ID: 590-9053-1 MS
Matrix: Solid
Analysis Batch: 18347

Client Sample ID: TP-19-6
Prep Type: Total/NA
Prep Batch: 18332

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---------|---------------|------------------|-------------|-----------|--------------|-------|---|------|--------------|
| Mercury | 44 | | 192 | 213 | | ug/Kg | | 88 | 80 - 120 |

Lab Sample ID: 590-9053-1 MSD
Matrix: Solid
Analysis Batch: 18347

Client Sample ID: TP-19-6
Prep Type: Total/NA
Prep Batch: 18332

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---------|---------------|------------------|-------------|------------|---------------|-------|---|------|--------------|-----|-----------|
| Mercury | 44 | | 196 | 207 | | ug/Kg | | 83 | 80 - 120 | 3 | 20 |

Lab Sample ID: 590-9053-1 DU
Matrix: Solid
Analysis Batch: 18347

Client Sample ID: TP-19-6
Prep Type: Total/NA
Prep Batch: 18332

| Analyte | Sample Result | Sample Qualifier | DU Result | DU Qualifier | Unit | D | RPD | RPD Limit |
|---------|---------------|------------------|-----------|--------------|-------|---|-----|-----------|
| Mercury | 44 | | 40.2 | | ug/Kg | | 10 | 20 |

Lab Chronicle

Client: Hart Crowser, Inc.
Project/Site: Focused Phase II ESA

TestAmerica Job ID: 590-9053-3

Client Sample ID: TP-19-6

Date Collected: 08/02/18 09:50

Date Received: 08/02/18 14:45

Lab Sample ID: 590-9053-1

Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 6010C | | 2 | | | 18298 | 08/07/18 12:07 | JSP | TAL SPK |
| Total/NA | Prep | 3050B | | | 1.36 g | 50 mL | 18093 | 08/13/18 15:40 | JSP | TAL SPK |
| Total/NA | Prep | 7471B | | | 0.62 g | 50 mL | 18332 | 08/15/18 09:01 | JSP | TAL SPK |
| Total/NA | Analysis | 7471B | | 1 | | | 18347 | 08/15/18 15:14 | JSP | TAL SPK |

Client Sample ID: TP-21-6

Date Collected: 08/02/18 10:10

Date Received: 08/02/18 14:45

Lab Sample ID: 590-9053-5

Matrix: Solid

Percent Solids: 94.8

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 3550C | | | 15.24 g | 2 mL | 18291 | 08/13/18 13:56 | MO | TAL SPK |
| Total/NA | Analysis | 8270D SIM | | 1 | | | 18295 | 08/13/18 18:11 | NMI | TAL SPK |

Client Sample ID: TP-17-6

Date Collected: 08/02/18 10:50

Date Received: 08/02/18 14:45

Lab Sample ID: 590-9053-11

Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 6010C | | 2 | | | 18298 | 08/07/18 12:54 | JSP | TAL SPK |
| Total/NA | Prep | 3050B | | | 1.32 g | 50 mL | 18093 | 08/13/18 15:40 | JSP | TAL SPK |
| Total/NA | Prep | 7471B | | | 0.54 g | 50 mL | 18332 | 08/15/18 09:01 | JSP | TAL SPK |
| Total/NA | Analysis | 7471B | | 1 | | | 18347 | 08/15/18 15:24 | JSP | TAL SPK |

Client Sample ID: TP-18-6

Date Collected: 08/02/18 10:50

Date Received: 08/02/18 14:45

Lab Sample ID: 590-9053-35

Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 6010C | | 2 | | | 18298 | 08/07/18 13:48 | JSP | TAL SPK |
| Total/NA | Prep | 3050B | | | 1.26 g | 50 mL | 18093 | 08/13/18 15:40 | JSP | TAL SPK |
| Total/NA | Prep | 7471B | | | 0.64 g | 50 mL | 18332 | 08/15/18 09:01 | JSP | TAL SPK |
| Total/NA | Analysis | 7471B | | 1 | | | 18347 | 08/15/18 15:26 | JSP | TAL SPK |

Client Sample ID: TP-14-6

Date Collected: 08/02/18 11:30

Date Received: 08/02/18 14:45

Lab Sample ID: 590-9053-39

Matrix: Solid

Percent Solids: 94.8

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 3550C | | | 15.53 g | 2 mL | 18291 | 08/13/18 13:56 | MO | TAL SPK |
| Total/NA | Analysis | 8270D SIM | | 1 | | | 18295 | 08/13/18 18:36 | NMI | TAL SPK |

TestAmerica Spokane

Lab Chronicle

Client: Hart Crowser, Inc.
Project/Site: Focused Phase II ESA

TestAmerica Job ID: 590-9053-3

Client Sample ID: TP-12-6

Date Collected: 08/02/18 11:50

Date Received: 08/02/18 14:45

Lab Sample ID: 590-9053-41

Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 3050B | | | 1.44 g | 50 mL | 18095 | 08/03/18 09:22 | JSP | TAL SPK |
| Total/NA | Analysis | 6010C | | 2 | | | 18298 | 08/07/18 14:27 | JSP | TAL SPK |
| Total/NA | Prep | 7471B | | | 0.61 g | 50 mL | 18332 | 08/15/18 09:01 | JSP | TAL SPK |
| Total/NA | Analysis | 7471B | | 1 | | | 18347 | 08/15/18 15:28 | JSP | TAL SPK |

Client Sample ID: TP-12-6

Date Collected: 08/02/18 11:50

Date Received: 08/02/18 14:45

Lab Sample ID: 590-9053-41

Matrix: Solid

Percent Solids: 96.0

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 3550C | | | 15.28 g | 2 mL | 18291 | 08/13/18 13:56 | MO | TAL SPK |
| Total/NA | Analysis | 8270D SIM | | 1 | | | 18295 | 08/13/18 19:01 | NMI | TAL SPK |

Client Sample ID: TP-6-6

Date Collected: 08/02/18 12:25

Date Received: 08/02/18 14:45

Lab Sample ID: 590-9053-43

Matrix: Solid

Percent Solids: 96.6

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 3550C | | | 15.14 g | 2 mL | 18291 | 08/13/18 13:56 | MO | TAL SPK |
| Total/NA | Analysis | 8270D SIM | | 1 | | | 18295 | 08/13/18 19:26 | NMI | TAL SPK |

Laboratory References:

TAL SPK = TestAmerica Spokane, 11922 East 1st Ave, Spokane, WA 99206, TEL (509)924-9200

Accreditation/Certification Summary

Client: Hart Crowser, Inc.
Project/Site: Focused Phase II ESA

TestAmerica Job ID: 590-9053-3

Laboratory: TestAmerica Spokane

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

| Authority | Program | EPA Region | Identification Number | Expiration Date |
|------------|---------------|------------|-----------------------|-----------------|
| Washington | State Program | 10 | C569 | 01-06-19 |

| Analysis Method | Prep Method | Matrix | Analyte |
|-----------------|-------------|--------|---------|
|-----------------|-------------|--------|---------|

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12

Method Summary

Client: Hart Crowser, Inc.
Project/Site: Focused Phase II ESA

TestAmerica Job ID: 590-9053-3

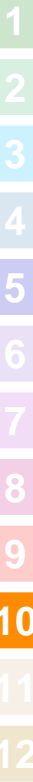
| Method | Method Description | Protocol | Laboratory |
|-----------|--|----------|------------|
| 8270D SIM | Semivolatile Organic Compounds (GC/MS SIM) | SW846 | TAL SPK |
| 6010C | Metals (ICP) | SW846 | TAL SPK |
| 7471B | Mercury (CVAA) | SW846 | TAL SPK |
| 3050B | Preparation, Metals | SW846 | TAL SPK |
| 3550C | Ultrasonic Extraction | SW846 | TAL SPK |
| 7471B | Preparation, Mercury | SW846 | TAL SPK |

Protocol References:

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

Laboratory References:

TAL SPK = TestAmerica Spokane, 11922 East 1st Ave, Spokane, WA 99206, TEL (509)924-9200



Sample Custody Record

Samples Shipped to: TEST AMERICA



HART CROWSNER

Page 2 of 3

Hart Crowsner, Inc.
3131 Elliott Avenue, Suite 600
Seattle, Washington 98122
Office: 206.324.9530 • Fax 206.328.5588

8/15/2018

| LAB NO. | SAMPLE ID | DESCRIPTION | DATE | TIME | MATRIX | REQUESTED ANALYSIS | NO. OF CONTAINERS | OBSERVATIONS/COMMENTS/ COMPOSITING INSTRUCTIONS |
|--|-----------|----------------------------|--------|--|--------|---------------------|-------------------|--|
| JOB <u>CVSD</u> | | LAB NUMBER | | | | | | |
| PROJECT NAME <u>FOCUSED PH. II BSA</u> | | | | | | | | |
| HART CROWSER CONTACT <u>J. HANEY</u> | | | | | | | | |
| SAMPLED BY: <u>W. McDONALD</u> | | | | | | | | |
| | TP-17-6 | | 8/2/18 | 1050 | Soil | LEAD/TOTAL PbALS | | |
| | TP-13-12 | | | | | | | |
| | TP-15-6 | | | 1100 | | | | |
| | TP-15-12 | | | 1101 | | | | |
| | TP-13-6 | | | 1110 | | | | |
| | TP-13-12 | | | 1111 | | | | |
| | TP-11-6 | | | 1130 | | | | |
| | TP-11-12 | | | 1131 | | | | |
| | TP-10-6 | | | 1146 | | | | |
| | TP-10-12 | | | 1141 | | | | |
| | TP-10-6 | | | 1146 1250 | | | | |
| | TP-10-12 | | | 1141 1251 | | | | |
| RELINQUISHED BY | DATE | RECEIVED BY | DATE | SPECIAL SHIPMENT HANDLING OR STORAGE REQUIREMENTS: | | | | |
| <u>W. McDonald</u> | 8/2/18 | <u>J. Haney</u> | 8/2/18 | STORAGE REQUIREMENTS: | | | | |
| PRINT NAME <u>W. McDonald</u> | TIME | PRINT NAME <u>J. Haney</u> | TIME | COOLER NO.: | | | | |
| COMPANY <u>Hart Crowsner</u> | 1330 | COMPANY <u>TE</u> | 1330 | STORAGE LOCATION: | | | | |
| RELINQUISHED BY | DATE | RECEIVED BY | DATE | TOTAL NUMBER OF CONTAINERS | | | | |
| <u>J. Haney</u> | 8/2/18 | <u>J. Haney</u> | 8/2/18 | SAMPLE RECEIPT INFORMATION | | | | |
| PRINT NAME <u>J. Haney</u> | TIME | PRINT NAME <u>J. Haney</u> | TIME | CUSTODY SEALS: | | | | |
| COMPANY <u>TE</u> | 14:44 | COMPANY <u>TE</u> | 14:44 | <input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A | | | | |
| | | | | GOOD CONDITION | | | | |
| | | | | <input type="checkbox"/> YES <input type="checkbox"/> NO | | | | |
| | | | | TEMPERATURE | | | | |
| | | | | SHIPMENT METHOD: <input type="checkbox"/> HAND <input type="checkbox"/> COURIER <input type="checkbox"/> OVERNIGHT | | | | |
| | | | | TURNAROUND TIME: <input type="checkbox"/> 24 HOURS <input type="checkbox"/> 1 WEEK | | | | |
| | | | | <input type="checkbox"/> 48 HOURS <input type="checkbox"/> STANDARD | | | | |
| | | | | <input checked="" type="checkbox"/> 72 HOURS <input type="checkbox"/> OTHER | | | | |

White to Lab Yellow to Project Manager Pink to Sample Custodian

7.6 CIRCULAR

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12

Sample Custody Record

Samples Shipped to: TEST AMERICA



Page 3 of 3

Hart Crowsner, Inc.
 3131 Elliott Avenue, Suite 602
 Seattle, Washington 98122
 Office: 206.324.9530 • Fax 206.328.5583

JOB CUSD LAB NUMBER _____

PROJECT NAME FOCUSED PHASE II ESA

HART CROWSER CONTACT J HANEY

SAMPLED BY: W. MEDENARD

REQUESTED ANALYSIS _____

NO. OF CONTAINERS _____

OBSERVATIONS/COMMENTS/
COMPOSITING INSTRUCTIONS

| LAB NO. | SAMPLE ID | DESCRIPTION | DATE | TIME | MATRIX | LEAD (TOTAL) | PAHS |
|---------|-----------|-------------|--------|------|--------|--------------|------|
| | TP-9-6 | | 8/2/18 | 1150 | Soil | X | |
| | TP-9-12 | | | 1151 | | X | |
| | TP-8-6 | | | 1200 | | X | |
| | TP-8-12 | | | 1201 | | X | |
| | TP-7-6 | | | 1210 | | X | |
| | TP-7-12 | | | 1211 | | X | |
| | TP-5-6 | | | 1220 | | X | |
| | TP-5-12 | | | 1221 | | X | |
| | TP-4-6 | | | 1230 | | X | |
| | TP-4-12 | | | 1231 | | X | |
| | TP-2-6 | | | 1246 | | X | |
| | TP-2-12 | | | 1241 | | X | |

RELINQUISHED BY: [Signature] DATE: 8/2/18

SIGNATURE: [Signature] TIME: 8/2/18

PRINT NAME: J HANEY COMPANY: HC

RECEIVED BY: [Signature] DATE: 8/2/18

SIGNATURE: [Signature] TIME: 8/2/18

PRINT NAME: J HANEY COMPANY: HC

RELINQUISHED BY: [Signature] DATE: 8/2/18

SIGNATURE: [Signature] TIME: 8/2/18

PRINT NAME: J HANEY COMPANY: HC

RECEIVED BY: [Signature] DATE: 8/2/18

SIGNATURE: [Signature] TIME: 8/2/18

PRINT NAME: J HANEY COMPANY: HC

COOLER NO.: _____ STORAGE LOCATION: _____

See Lab Work Order No. _____ for Other Contract Requirements

TURNAROUND TIME: 24 HOURS 1 WEEK 48 HOURS STANDARD 72 HOURS OTHER _____

SAMPLE RECEIPT INFORMATION
 CUSTODY SEALS: YES NO N/A
 GOOD CONDITION: YES NO
 TEMPERATURE: _____
 SHIPMENT METHOD: HAND CURRIER OVERNIGHT

TOTAL NUMBER OF CONTAINERS: Hold

White to Lab Yellow to Project Manager Pink to Sample Custodian

7.6 CIPROY

Sample Custody Record

Samples Shipped to: TEST AMERICA, SPOKANE



Hart Crowsner, Inc.
 3131 Elliott Avenue, Suite 602
 Seattle, Washington 98122
 Office: 206.324.9530 • Fax 206.328.5588

JOB CVSD LAB NUMBER _____
 PROJECT NAME FOCUSED PHASE II ESA
 HART CROWSER CONTACT JOHN HANEY

SAMPLED BY: JTH

| LAB NO. | SAMPLE ID | DESCRIPTION | DATE | TIME | MATRIX | REQUESTED ANALYSIS | NO. OF CONTAINERS | OBSERVATIONS/COMMENTS/ COMPOSITING INSTRUCTIONS |
|------------------------------|-----------|-------------|----------------------------------|--------|--|--------------------|-------------------|--|
| | | | | | | LEAD(TOTAL) PAN | | |
| | TP-18-6 | Soil | 8/2/18 | 10:50 | S | X | 1 | Hold |
| | TP-18-12 | | | 10:54 | | X | 1 | Hold |
| | TP-16-6 | | | 11:11 | | X | 1 | Hold |
| | TP-16-12 | | | 11:15 | | X | 1 | Hold |
| | TP-14-6 | | | 11:30 | | X | 1 | Hold |
| | TP-14-12 | | | 11:35 | | X | 1 | Hold |
| | TP-12-6 | | | 11:50 | | X | 1 | Hold |
| | TP-12-12 | | | 11:55 | | X | 1 | Hold |
| | TP-6-6 | | | 12:25 | | X | 1 | Hold |
| | TP-6-12 | | | 12:30 | | X | 1 | Hold |
| | TP-3-6 | | | 12:45 | | X | 1 | Hold |
| | TP-3-12 | | | 12:50 | | X | 1 | Hold |
| RELINQUISHED BY | | DATE | RECEIVED BY | DATE | SPECIAL SHIPMENT HANDLING OR STORAGE REQUIREMENTS: | | | |
| SIGNATURE <u>[Signature]</u> | | 8/2/18 | SIGNATURE <u>[Signature]</u> | 8/2/18 | STORAGE NO.: _____ STORAGE LOCATION: _____ | | | |
| PRINT NAME <u>JOHN HANEY</u> | | TIME | PRINT NAME <u>SPRING KROEDER</u> | TIME | COOLER NO.: _____ See Lab Work Order No. _____ For Other Contract Requirements | | | |
| COMPANY | | 14:44 | COMPANY <u>HA</u> | TIME | TURNAROUND TIME: <input checked="" type="checkbox"/> 24 HOURS <input type="checkbox"/> 48 HOURS <input type="checkbox"/> 72 HOURS <input type="checkbox"/> 1 WEEK <input type="checkbox"/> STANDARD <input type="checkbox"/> OTHER _____ | | | |
| RELINQUISHED BY | | DATE | RECEIVED BY | DATE | SAMPLE RECEIPT INFORMATION | | | |
| SIGNATURE | | DATE | SIGNATURE | DATE | CUSTODY SEALS: <input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A | | | |
| PRINT NAME | | DATE | PRINT NAME | DATE | GOOD CONDITION: <input type="checkbox"/> YES <input type="checkbox"/> NO | | | |
| COMPANY | | DATE | COMPANY | DATE | TEMPERATURE _____ | | | |
| RELINQUISHED BY | | DATE | RECEIVED BY | DATE | SHIPMENT METHOD: <input type="checkbox"/> HAND <input type="checkbox"/> COURIER <input type="checkbox"/> OVERNIGHT | | | |
| SIGNATURE | | DATE | SIGNATURE | DATE | TOTAL NUMBER OF CONTAINERS: <u>12</u> | | | |
| PRINT NAME | | DATE | PRINT NAME | DATE | SAMPLE RECEIPT INFORMATION | | | |
| COMPANY | | DATE | COMPANY | DATE | CUSTODY SEALS: <input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A | | | |
| RELINQUISHED BY | | DATE | RECEIVED BY | DATE | GOOD CONDITION: <input type="checkbox"/> YES <input type="checkbox"/> NO | | | |
| SIGNATURE | | DATE | SIGNATURE | DATE | TEMPERATURE _____ | | | |
| PRINT NAME | | DATE | PRINT NAME | DATE | SHIPMENT METHOD: <input type="checkbox"/> HAND <input type="checkbox"/> COURIER <input type="checkbox"/> OVERNIGHT | | | |
| COMPANY | | DATE | COMPANY | DATE | TURNAROUND TIME: <input type="checkbox"/> 24 HOURS <input type="checkbox"/> 48 HOURS <input type="checkbox"/> 72 HOURS <input type="checkbox"/> 1 WEEK <input type="checkbox"/> STANDARD <input type="checkbox"/> OTHER _____ | | | |

Write to Lab Yellow to Project Manager Pink to Sample Custodian 7.6 STROCH

Login Sample Receipt Checklist

Client: Hart Crowser, Inc.

Job Number: 590-9053-3

Login Number: 9053

List Source: TestAmerica Spokane

List Number: 1

Creator: Kratz, Sheila J

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



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

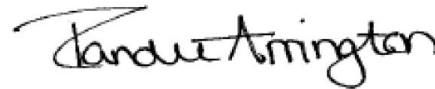
ANALYTICAL REPORT

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

TestAmerica Job ID: 590-9053-4
Client Project/Site: Focused Phase II ESA

For:
Hart Crowser, Inc.
505 West Riverside Avenue, Suite 205
Spokane, Washington 99201

Attn: John Haney



Authorized for release by:
8/17/2018 2:26:50 PM

Randee Arrington, Project Manager II
(509)924-9200
randee.arrington@testamericainc.com

LINKS

Review your project
results through
TotalAccess

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.

1

2

3

4

5

6

7

8

9

10

11

12



Table of Contents

| | |
|---------------------------------|----|
| Cover Page | 1 |
| Table of Contents | 2 |
| Case Narrative | 3 |
| Sample Summary | 4 |
| Definitions | 5 |
| Client Sample Results | 6 |
| QC Sample Results | 9 |
| Chronicle | 15 |
| Certification Summary | 17 |
| Method Summary | 18 |
| Chain of Custody | 19 |
| Receipt Checklists | 23 |

Case Narrative

Client: Hart Crowser, Inc.
Project/Site: Focused Phase II ESA

TestAmerica Job ID: 590-9053-4

Job ID: 590-9053-4

Laboratory: TestAmerica Spokane

Narrative

Receipt

The samples were received on 8/2/2018 2:45 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 7.6° C.

Receipt Exceptions

The following samples were received at the laboratory outside the required temperature criteria: TP-20-6 (590-9053-3), TP-15-6 (590-9053-13) and TP-16-6 (590-9053-37). The samples are considered acceptable since they were collected and submitted to the laboratory on the same day and there is evidence that the chilling process has begun.

The following samples were activated for 6010C Ag, As, Ba, Cd, Cr, Se, 7471B Mercury and 8270D SIM PAH analysis by the client on 08/15/18: TP-20-6 (590-9053-3), TP-15-6 (590-9053-13) and TP-16-6 (590-9053-37). This analysis was not originally requested on the chain-of-custody (COC).

GC/MS Semi VOA

Method 8270D SIM: Due to the high concentration of Benzo[a]pyrene, the matrix spike (MS) for preparation batch 590-18350 and analytical batch 590-18357 could not be evaluated for accuracy and precision. The associated laboratory control sample / laboratory control sample duplicate (LCS/LCSD) met acceptance criteria.

Method 8270D SIM: Surrogate recovery for the following sample was outside control limits: TP-15-6 (590-9053-13). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

Metals

Method 6010C: The low level continuing calibration verification (CCVL) associated with batch 590-18384 recovered above the upper control limit for Selenium. The samples associated with this CCV were either >10x or non-detects for the affected analytes; therefore, the data have been reported.

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

Organic Prep

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

Sample Summary

Client: Hart Crowser, Inc.
Project/Site: Focused Phase II ESA

TestAmerica Job ID: 590-9053-4

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received |
|---------------|------------------|--------|----------------|----------------|
| 590-9053-3 | TP-20-6 | Solid | 08/02/18 10:00 | 08/02/18 14:45 |
| 590-9053-13 | TP-15-6 | Solid | 08/02/18 11:00 | 08/02/18 14:45 |
| 590-9053-37 | TP-16-6 | Solid | 08/02/18 11:11 | 08/02/18 14:45 |

1

2

3

4

5

6

7

8

9

10

11

12

Definitions/Glossary

Client: Hart Crowser, Inc.
Project/Site: Focused Phase II ESA

TestAmerica Job ID: 590-9053-4

Qualifiers

GC/MS Semi VOA

| Qualifier | Qualifier Description |
|-----------|--|
| X | Surrogate is outside control limits |
| F1 | MS and/or MSD Recovery is outside acceptance limits. |

Metals

| Qualifier | Qualifier Description |
|-----------|--|
| ^ | ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits. |
| F1 | MS and/or MSD Recovery is outside acceptance limits. |

Glossary

| Abbreviation | These commonly used abbreviations may or may not be present in this report. |
|----------------|---|
| α | 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 | Detection Limit (DoD/DOE) |
| DL, RA, RE, IN | Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample |
| DLC | Decision Level Concentration (Radiochemistry) |
| EDL | Estimated Detection Limit (Dioxin) |
| LOD | Limit of Detection (DoD/DOE) |
| LOQ | Limit of Quantitation (DoD/DOE) |
| MDA | Minimum Detectable Activity (Radiochemistry) |
| MDC | Minimum Detectable Concentration (Radiochemistry) |
| 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 (Radiochemistry) |
| RL | Reporting Limit or Requested Limit (Radiochemistry) |
| RPD | Relative Percent Difference, a measure of the relative difference between two points |
| TEF | Toxicity Equivalent Factor (Dioxin) |
| TEQ | Toxicity Equivalent Quotient (Dioxin) |

Client Sample Results

Client: Hart Crowser, Inc.
Project/Site: Focused Phase II ESA

TestAmerica Job ID: 590-9053-4

Client Sample ID: TP-20-6

Date Collected: 08/02/18 10:00

Date Received: 08/02/18 14:45

Lab Sample ID: 590-9053-3

Matrix: Solid

Percent Solids: 94.7

Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------------|------------|-----------|----|-----|-------|---|----------------|----------------|---------|
| Naphthalene | ND | | 10 | | ug/Kg | ☼ | 08/16/18 08:52 | 08/16/18 13:36 | 1 |
| 2-Methylnaphthalene | ND | | 10 | | ug/Kg | ☼ | 08/16/18 08:52 | 08/16/18 13:36 | 1 |
| 1-Methylnaphthalene | ND | | 10 | | ug/Kg | ☼ | 08/16/18 08:52 | 08/16/18 13:36 | 1 |
| Acenaphthylene | ND | | 10 | | ug/Kg | ☼ | 08/16/18 08:52 | 08/16/18 13:36 | 1 |
| Acenaphthene | 12 | | 10 | | ug/Kg | ☼ | 08/16/18 08:52 | 08/16/18 13:36 | 1 |
| Fluorene | ND | | 10 | | ug/Kg | ☼ | 08/16/18 08:52 | 08/16/18 13:36 | 1 |
| Phenanthrene | 68 | | 10 | | ug/Kg | ☼ | 08/16/18 08:52 | 08/16/18 13:36 | 1 |
| Anthracene | 16 | | 10 | | ug/Kg | ☼ | 08/16/18 08:52 | 08/16/18 13:36 | 1 |
| Fluoranthene | 180 | | 10 | | ug/Kg | ☼ | 08/16/18 08:52 | 08/16/18 13:36 | 1 |
| Pyrene | 200 | | 10 | | ug/Kg | ☼ | 08/16/18 08:52 | 08/16/18 13:36 | 1 |
| Benzo[a]anthracene | 130 | | 10 | | ug/Kg | ☼ | 08/16/18 08:52 | 08/16/18 13:36 | 1 |
| Chrysene | 180 | | 10 | | ug/Kg | ☼ | 08/16/18 08:52 | 08/16/18 13:36 | 1 |
| Benzo[b]fluoranthene | 220 | | 10 | | ug/Kg | ☼ | 08/16/18 08:52 | 08/16/18 13:36 | 1 |
| Benzo[k]fluoranthene | 93 | | 10 | | ug/Kg | ☼ | 08/16/18 08:52 | 08/16/18 13:36 | 1 |
| Benzo[a]pyrene | 210 | F1 | 10 | | ug/Kg | ☼ | 08/16/18 08:52 | 08/16/18 13:36 | 1 |
| Indeno[1,2,3-cd]pyrene | 120 | | 10 | | ug/Kg | ☼ | 08/16/18 08:52 | 08/16/18 13:36 | 1 |
| Dibenz(a,h)anthracene | 41 | | 10 | | ug/Kg | ☼ | 08/16/18 08:52 | 08/16/18 13:36 | 1 |
| Benzo[g,h,i]perylene | 150 | | 10 | | ug/Kg | ☼ | 08/16/18 08:52 | 08/16/18 13:36 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-------------------------|-----------|-----------|----------|----------------|----------------|---------|
| Nitrobenzene-d5 | 77 | | 23 - 120 | 08/16/18 08:52 | 08/16/18 13:36 | 1 |
| 2-Fluorobiphenyl (Surr) | 78 | | 38 - 123 | 08/16/18 08:52 | 08/16/18 13:36 | 1 |
| p-Terphenyl-d14 | 87 | | 68 - 136 | 08/16/18 08:52 | 08/16/18 13:36 | 1 |

Method: 6010C - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------|------------|-----------|-----|-----|-------|---|----------------|----------------|---------|
| Arsenic | 9.9 | | 2.1 | | mg/Kg | | 08/16/18 09:08 | 08/17/18 10:50 | 2 |
| Barium | 160 | F1 | 2.1 | | mg/Kg | | 08/16/18 09:08 | 08/17/18 10:50 | 2 |
| Cadmium | ND | | 1.7 | | mg/Kg | | 08/16/18 09:08 | 08/17/18 10:50 | 2 |
| Chromium | 13 | | 2.1 | | mg/Kg | | 08/16/18 09:08 | 08/17/18 10:50 | 2 |
| Selenium | ND | ^ | 8.5 | | mg/Kg | | 08/16/18 09:08 | 08/17/18 10:50 | 2 |
| Silver | ND | | 2.1 | | mg/Kg | | 08/16/18 09:08 | 08/17/18 10:50 | 2 |

Method: 7471B - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|----|-----|-------|---|----------------|----------------|---------|
| Mercury | ND | | 42 | | ug/Kg | | 08/16/18 09:27 | 08/17/18 11:08 | 1 |

Client Sample ID: TP-15-6

Date Collected: 08/02/18 11:00

Date Received: 08/02/18 14:45

Lab Sample ID: 590-9053-13

Matrix: Solid

Percent Solids: 95.7

Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------|--------|-----------|----|-----|-------|---|----------------|----------------|---------|
| Naphthalene | ND | | 10 | | ug/Kg | ☼ | 08/16/18 08:53 | 08/16/18 14:01 | 1 |
| 2-Methylnaphthalene | ND | | 10 | | ug/Kg | ☼ | 08/16/18 08:53 | 08/16/18 14:01 | 1 |
| 1-Methylnaphthalene | ND | | 10 | | ug/Kg | ☼ | 08/16/18 08:53 | 08/16/18 14:01 | 1 |
| Acenaphthylene | ND | | 10 | | ug/Kg | ☼ | 08/16/18 08:53 | 08/16/18 14:01 | 1 |
| Acenaphthene | ND | | 10 | | ug/Kg | ☼ | 08/16/18 08:53 | 08/16/18 14:01 | 1 |
| Fluorene | ND | | 10 | | ug/Kg | ☼ | 08/16/18 08:53 | 08/16/18 14:01 | 1 |
| Phenanthrene | ND | | 10 | | ug/Kg | ☼ | 08/16/18 08:53 | 08/16/18 14:01 | 1 |

TestAmerica Spokane

Client Sample Results

Client: Hart Crowser, Inc.
Project/Site: Focused Phase II ESA

TestAmerica Job ID: 590-9053-4

Client Sample ID: TP-15-6

Lab Sample ID: 590-9053-13

Date Collected: 08/02/18 11:00

Matrix: Solid

Date Received: 08/02/18 14:45

Percent Solids: 95.7

Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|------------------|------------------|---------------|-----|-------|---|-----------------|-----------------|----------------|
| Anthracene | ND | | 10 | | ug/Kg | ☼ | 08/16/18 08:53 | 08/16/18 14:01 | 1 |
| Fluoranthene | 12 | | 10 | | ug/Kg | ☼ | 08/16/18 08:53 | 08/16/18 14:01 | 1 |
| Pyrene | 12 | | 10 | | ug/Kg | ☼ | 08/16/18 08:53 | 08/16/18 14:01 | 1 |
| Benzo[a]anthracene | ND | | 10 | | ug/Kg | ☼ | 08/16/18 08:53 | 08/16/18 14:01 | 1 |
| Chrysene | 12 | | 10 | | ug/Kg | ☼ | 08/16/18 08:53 | 08/16/18 14:01 | 1 |
| Benzo[b]fluoranthene | 17 | | 10 | | ug/Kg | ☼ | 08/16/18 08:53 | 08/16/18 14:01 | 1 |
| Benzo[k]fluoranthene | ND | | 10 | | ug/Kg | ☼ | 08/16/18 08:53 | 08/16/18 14:01 | 1 |
| Benzo[a]pyrene | 14 | | 10 | | ug/Kg | ☼ | 08/16/18 08:53 | 08/16/18 14:01 | 1 |
| Indeno[1,2,3-cd]pyrene | ND | | 10 | | ug/Kg | ☼ | 08/16/18 08:53 | 08/16/18 14:01 | 1 |
| Dibenz(a,h)anthracene | ND | | 10 | | ug/Kg | ☼ | 08/16/18 08:53 | 08/16/18 14:01 | 1 |
| Benzo[g,h,i]perylene | 11 | | 10 | | ug/Kg | ☼ | 08/16/18 08:53 | 08/16/18 14:01 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| Nitrobenzene-d5 | 39 | | 23 - 120 | | | | 08/16/18 08:53 | 08/16/18 14:01 | 1 |
| 2-Fluorobiphenyl (Surr) | 41 | | 38 - 123 | | | | 08/16/18 08:53 | 08/16/18 14:01 | 1 |
| p-Terphenyl-d14 | 49 | X | 68 - 136 | | | | 08/16/18 08:53 | 08/16/18 14:01 | 1 |

Method: 6010C - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------|------------|-----------|-----|-----|-------|---|----------------|----------------|---------|
| Arsenic | 7.8 | | 2.3 | | mg/Kg | | 08/16/18 09:08 | 08/17/18 11:21 | 2 |
| Barium | 140 | | 2.3 | | mg/Kg | | 08/16/18 09:08 | 08/17/18 11:21 | 2 |
| Cadmium | ND | | 1.8 | | mg/Kg | | 08/16/18 09:08 | 08/17/18 11:21 | 2 |
| Chromium | 14 | | 2.3 | | mg/Kg | | 08/16/18 09:08 | 08/17/18 11:21 | 2 |
| Selenium | ND | ^ | 9.0 | | mg/Kg | | 08/16/18 09:08 | 08/17/18 11:21 | 2 |
| Silver | ND | | 2.3 | | mg/Kg | | 08/16/18 09:08 | 08/17/18 11:21 | 2 |

Method: 7471B - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|----|-----|-------|---|----------------|----------------|---------|
| Mercury | ND | | 41 | | ug/Kg | | 08/16/18 09:27 | 08/17/18 11:17 | 1 |

Client Sample ID: TP-16-6

Lab Sample ID: 590-9053-37

Date Collected: 08/02/18 11:11

Matrix: Solid

Date Received: 08/02/18 14:45

Percent Solids: 95.0

Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----|-----|-------|---|----------------|----------------|---------|
| Naphthalene | ND | | 10 | | ug/Kg | ☼ | 08/16/18 08:53 | 08/16/18 14:26 | 1 |
| 2-Methylnaphthalene | ND | | 10 | | ug/Kg | ☼ | 08/16/18 08:53 | 08/16/18 14:26 | 1 |
| 1-Methylnaphthalene | ND | | 10 | | ug/Kg | ☼ | 08/16/18 08:53 | 08/16/18 14:26 | 1 |
| Acenaphthylene | ND | | 10 | | ug/Kg | ☼ | 08/16/18 08:53 | 08/16/18 14:26 | 1 |
| Acenaphthene | ND | | 10 | | ug/Kg | ☼ | 08/16/18 08:53 | 08/16/18 14:26 | 1 |
| Fluorene | ND | | 10 | | ug/Kg | ☼ | 08/16/18 08:53 | 08/16/18 14:26 | 1 |
| Phenanthrene | ND | | 10 | | ug/Kg | ☼ | 08/16/18 08:53 | 08/16/18 14:26 | 1 |
| Anthracene | ND | | 10 | | ug/Kg | ☼ | 08/16/18 08:53 | 08/16/18 14:26 | 1 |
| Fluoranthene | 25 | | 10 | | ug/Kg | ☼ | 08/16/18 08:53 | 08/16/18 14:26 | 1 |
| Pyrene | 29 | | 10 | | ug/Kg | ☼ | 08/16/18 08:53 | 08/16/18 14:26 | 1 |
| Benzo[a]anthracene | 20 | | 10 | | ug/Kg | ☼ | 08/16/18 08:53 | 08/16/18 14:26 | 1 |
| Chrysene | 28 | | 10 | | ug/Kg | ☼ | 08/16/18 08:53 | 08/16/18 14:26 | 1 |
| Benzo[b]fluoranthene | 36 | | 10 | | ug/Kg | ☼ | 08/16/18 08:53 | 08/16/18 14:26 | 1 |
| Benzo[k]fluoranthene | 14 | | 10 | | ug/Kg | ☼ | 08/16/18 08:53 | 08/16/18 14:26 | 1 |

TestAmerica Spokane

Client Sample Results

Client: Hart Crowser, Inc.
Project/Site: Focused Phase II ESA

TestAmerica Job ID: 590-9053-4

Client Sample ID: TP-16-6

Lab Sample ID: 590-9053-37

Date Collected: 08/02/18 11:11

Matrix: Solid

Date Received: 08/02/18 14:45

Percent Solids: 95.0

Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------|------------------|------------------|---------------|-----|-------|---|-----------------|-----------------|----------------|
| Benzo[a]pyrene | 29 | | 10 | | ug/Kg | ☼ | 08/16/18 08:53 | 08/16/18 14:26 | 1 |
| Indeno[1,2,3-cd]pyrene | 19 | | 10 | | ug/Kg | ☼ | 08/16/18 08:53 | 08/16/18 14:26 | 1 |
| Dibenz(a,h)anthracene | ND | | 10 | | ug/Kg | ☼ | 08/16/18 08:53 | 08/16/18 14:26 | 1 |
| Benzo[g,h,i]perylene | 24 | | 10 | | ug/Kg | ☼ | 08/16/18 08:53 | 08/16/18 14:26 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| Nitrobenzene-d5 | 81 | | 23 - 120 | | | | 08/16/18 08:53 | 08/16/18 14:26 | 1 |
| 2-Fluorobiphenyl (Surr) | 82 | | 38 - 123 | | | | 08/16/18 08:53 | 08/16/18 14:26 | 1 |
| p-Terphenyl-d14 | 94 | | 68 - 136 | | | | 08/16/18 08:53 | 08/16/18 14:26 | 1 |

Method: 6010C - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|-----|-----|-------|---|----------------|----------------|---------|
| Arsenic | 5.9 | | 1.8 | | mg/Kg | | 08/16/18 09:08 | 08/17/18 11:25 | 2 |
| Barium | 170 | | 1.8 | | mg/Kg | | 08/16/18 09:08 | 08/17/18 11:25 | 2 |
| Cadmium | ND | | 1.4 | | mg/Kg | | 08/16/18 09:08 | 08/17/18 11:25 | 2 |
| Chromium | 11 | | 1.8 | | mg/Kg | | 08/16/18 09:08 | 08/17/18 11:25 | 2 |
| Selenium | ND | ^ | 7.1 | | mg/Kg | | 08/16/18 09:08 | 08/17/18 11:25 | 2 |
| Silver | ND | | 1.8 | | mg/Kg | | 08/16/18 09:08 | 08/17/18 11:25 | 2 |

Method: 7471B - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|----|-----|-------|---|----------------|----------------|---------|
| Mercury | ND | | 40 | | ug/Kg | | 08/16/18 09:27 | 08/17/18 11:19 | 1 |

QC Sample Results

Client: Hart Crowser, Inc.
Project/Site: Focused Phase II ESA

TestAmerica Job ID: 590-9053-4

Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM)

Lab Sample ID: MB 590-18350/1-A
Matrix: Solid
Analysis Batch: 18357

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 18350

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------|-----------|--------------|----|-----|-------|---|----------------|----------------|---------|
| Naphthalene | ND | | 10 | | ug/Kg | | 08/16/18 08:52 | 08/16/18 11:31 | 1 |
| 2-Methylnaphthalene | ND | | 10 | | ug/Kg | | 08/16/18 08:52 | 08/16/18 11:31 | 1 |
| 1-Methylnaphthalene | ND | | 10 | | ug/Kg | | 08/16/18 08:52 | 08/16/18 11:31 | 1 |
| Acenaphthylene | ND | | 10 | | ug/Kg | | 08/16/18 08:52 | 08/16/18 11:31 | 1 |
| Acenaphthene | ND | | 10 | | ug/Kg | | 08/16/18 08:52 | 08/16/18 11:31 | 1 |
| Fluorene | ND | | 10 | | ug/Kg | | 08/16/18 08:52 | 08/16/18 11:31 | 1 |
| Phenanthrene | ND | | 10 | | ug/Kg | | 08/16/18 08:52 | 08/16/18 11:31 | 1 |
| Anthracene | ND | | 10 | | ug/Kg | | 08/16/18 08:52 | 08/16/18 11:31 | 1 |
| Fluoranthene | ND | | 10 | | ug/Kg | | 08/16/18 08:52 | 08/16/18 11:31 | 1 |
| Pyrene | ND | | 10 | | ug/Kg | | 08/16/18 08:52 | 08/16/18 11:31 | 1 |
| Benzo[a]anthracene | ND | | 10 | | ug/Kg | | 08/16/18 08:52 | 08/16/18 11:31 | 1 |
| Chrysene | ND | | 10 | | ug/Kg | | 08/16/18 08:52 | 08/16/18 11:31 | 1 |
| Benzo[b]fluoranthene | ND | | 10 | | ug/Kg | | 08/16/18 08:52 | 08/16/18 11:31 | 1 |
| Benzo[k]fluoranthene | ND | | 10 | | ug/Kg | | 08/16/18 08:52 | 08/16/18 11:31 | 1 |
| Benzo[a]pyrene | ND | | 10 | | ug/Kg | | 08/16/18 08:52 | 08/16/18 11:31 | 1 |
| Indeno[1,2,3-cd]pyrene | ND | | 10 | | ug/Kg | | 08/16/18 08:52 | 08/16/18 11:31 | 1 |
| Dibenz(a,h)anthracene | ND | | 10 | | ug/Kg | | 08/16/18 08:52 | 08/16/18 11:31 | 1 |
| Benzo[g,h,i]perylene | ND | | 10 | | ug/Kg | | 08/16/18 08:52 | 08/16/18 11:31 | 1 |

| Surrogate | MB %Recovery | MB Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-------------------------|--------------|--------------|----------|----------------|----------------|---------|
| Nitrobenzene-d5 | 77 | | 23 - 120 | 08/16/18 08:52 | 08/16/18 11:31 | 1 |
| 2-Fluorobiphenyl (Surr) | 83 | | 38 - 123 | 08/16/18 08:52 | 08/16/18 11:31 | 1 |
| p-Terphenyl-d14 | 103 | | 68 - 136 | 08/16/18 08:52 | 08/16/18 11:31 | 1 |

Lab Sample ID: LCS 590-18350/2-A
Matrix: Solid
Analysis Batch: 18357

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 18350

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|------------------------|-------------|------------|---------------|-------|---|------|--------------|
| Naphthalene | 267 | 167 | | ug/Kg | | 63 | 41 - 121 |
| 2-Methylnaphthalene | 267 | 192 | | ug/Kg | | 72 | 39 - 132 |
| 1-Methylnaphthalene | 267 | 201 | | ug/Kg | | 75 | 46 - 131 |
| Acenaphthylene | 267 | 170 | | ug/Kg | | 64 | 56 - 123 |
| Acenaphthene | 267 | 181 | | ug/Kg | | 68 | 43 - 140 |
| Fluorene | 267 | 221 | | ug/Kg | | 83 | 54 - 131 |
| Phenanthrene | 267 | 205 | | ug/Kg | | 77 | 55 - 141 |
| Anthracene | 267 | 215 | | ug/Kg | | 81 | 60 - 129 |
| Fluoranthene | 267 | 223 | | ug/Kg | | 84 | 63 - 141 |
| Pyrene | 267 | 212 | | ug/Kg | | 79 | 62 - 139 |
| Benzo[a]anthracene | 267 | 229 | | ug/Kg | | 86 | 61 - 136 |
| Chrysene | 267 | 227 | | ug/Kg | | 85 | 57 - 144 |
| Benzo[b]fluoranthene | 267 | 227 | | ug/Kg | | 85 | 66 - 141 |
| Benzo[k]fluoranthene | 267 | 239 | | ug/Kg | | 90 | 63 - 150 |
| Benzo[a]pyrene | 267 | 236 | | ug/Kg | | 88 | 60 - 133 |
| Indeno[1,2,3-cd]pyrene | 267 | 239 | | ug/Kg | | 90 | 55 - 142 |
| Dibenz(a,h)anthracene | 267 | 240 | | ug/Kg | | 90 | 60 - 150 |
| Benzo[g,h,i]perylene | 267 | 233 | | ug/Kg | | 88 | 58 - 147 |

TestAmerica Spokane

QC Sample Results

Client: Hart Crowser, Inc.
Project/Site: Focused Phase II ESA

TestAmerica Job ID: 590-9053-4

Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Lab Sample ID: LCS 590-18350/2-A
Matrix: Solid
Analysis Batch: 18357

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 18350

| <i>Surrogate</i> | <i>LCS %Recovery</i> | <i>LCS Qualifier</i> | <i>Limits</i> |
|-------------------------|----------------------|----------------------|---------------|
| Nitrobenzene-d5 | 76 | | 23 - 120 |
| 2-Fluorobiphenyl (Surr) | 79 | | 38 - 123 |
| p-Terphenyl-d14 | 93 | | 68 - 136 |

Lab Sample ID: LCSD 590-18350/3-A
Matrix: Solid
Analysis Batch: 18357

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 18350

| <i>Analyte</i> | <i>Spike Added</i> | <i>LCSD Result</i> | <i>LCSD Qualifier</i> | <i>Unit</i> | <i>D</i> | <i>%Rec</i> | <i>%Rec. Limits</i> | <i>RPD</i> | <i>RPD Limit</i> |
|------------------------|--------------------|--------------------|-----------------------|-------------|----------|-------------|---------------------|------------|------------------|
| Naphthalene | 267 | 181 | | ug/Kg | | 68 | 41 - 121 | 8 | 35 |
| 2-Methylnaphthalene | 267 | 193 | | ug/Kg | | 73 | 39 - 132 | 1 | 35 |
| 1-Methylnaphthalene | 267 | 212 | | ug/Kg | | 80 | 46 - 131 | 6 | 35 |
| Acenaphthylene | 267 | 177 | | ug/Kg | | 66 | 56 - 123 | 4 | 35 |
| Acenaphthene | 267 | 197 | | ug/Kg | | 74 | 43 - 140 | 8 | 35 |
| Fluorene | 267 | 224 | | ug/Kg | | 84 | 54 - 131 | 1 | 35 |
| Phenanthrene | 267 | 216 | | ug/Kg | | 81 | 55 - 141 | 5 | 35 |
| Anthracene | 267 | 238 | | ug/Kg | | 89 | 60 - 129 | 10 | 35 |
| Fluoranthene | 267 | 242 | | ug/Kg | | 91 | 63 - 141 | 8 | 35 |
| Pyrene | 267 | 229 | | ug/Kg | | 86 | 62 - 139 | 8 | 35 |
| Benzo[a]anthracene | 267 | 234 | | ug/Kg | | 88 | 61 - 136 | 2 | 35 |
| Chrysene | 267 | 237 | | ug/Kg | | 89 | 57 - 144 | 5 | 35 |
| Benzo[b]fluoranthene | 267 | 245 | | ug/Kg | | 92 | 66 - 141 | 8 | 35 |
| Benzo[k]fluoranthene | 267 | 255 | | ug/Kg | | 96 | 63 - 150 | 7 | 35 |
| Benzo[a]pyrene | 267 | 245 | | ug/Kg | | 92 | 60 - 133 | 4 | 35 |
| Indeno[1,2,3-cd]pyrene | 267 | 244 | | ug/Kg | | 92 | 55 - 142 | 2 | 35 |
| Dibenz(a,h)anthracene | 267 | 248 | | ug/Kg | | 93 | 60 - 150 | 3 | 35 |
| Benzo[g,h,i]perylene | 267 | 243 | | ug/Kg | | 91 | 58 - 147 | 4 | 35 |

| <i>Surrogate</i> | <i>LCSD %Recovery</i> | <i>LCSD Qualifier</i> | <i>Limits</i> |
|-------------------------|-----------------------|-----------------------|---------------|
| Nitrobenzene-d5 | 73 | | 23 - 120 |
| 2-Fluorobiphenyl (Surr) | 79 | | 38 - 123 |
| p-Terphenyl-d14 | 88 | | 68 - 136 |

Lab Sample ID: 590-9053-3 MS
Matrix: Solid
Analysis Batch: 18357

Client Sample ID: TP-20-6
Prep Type: Total/NA
Prep Batch: 18350

| <i>Analyte</i> | <i>Sample Result</i> | <i>Sample Qualifier</i> | <i>Spike Added</i> | <i>MS Result</i> | <i>MS Qualifier</i> | <i>Unit</i> | <i>D</i> | <i>%Rec</i> | <i>%Rec. Limits</i> |
|---------------------|----------------------|-------------------------|--------------------|------------------|---------------------|-------------|----------|-------------|---------------------|
| Naphthalene | ND | | 281 | 187 | | ug/Kg | ☼ | 66 | 41 - 121 |
| 2-Methylnaphthalene | ND | | 281 | 217 | | ug/Kg | ☼ | 77 | 39 - 132 |
| 1-Methylnaphthalene | ND | | 281 | 235 | | ug/Kg | ☼ | 83 | 46 - 131 |
| Acenaphthylene | ND | | 281 | 186 | | ug/Kg | ☼ | 66 | 56 - 123 |
| Acenaphthene | 12 | | 281 | 219 | | ug/Kg | ☼ | 74 | 43 - 140 |
| Fluorene | ND | | 281 | 236 | | ug/Kg | ☼ | 83 | 54 - 131 |
| Phenanthrene | 68 | | 281 | 335 | | ug/Kg | ☼ | 95 | 55 - 141 |
| Anthracene | 16 | | 281 | 264 | | ug/Kg | ☼ | 88 | 60 - 129 |
| Fluoranthene | 180 | | 281 | 530 | | ug/Kg | ☼ | 126 | 63 - 141 |
| Pyrene | 200 | | 281 | 589 | | ug/Kg | ☼ | 138 | 62 - 139 |

TestAmerica Spokane

QC Sample Results

Client: Hart Crowser, Inc.
Project/Site: Focused Phase II ESA

TestAmerica Job ID: 590-9053-4

Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Lab Sample ID: 590-9053-3 MS

Matrix: Solid

Analysis Batch: 18357

Client Sample ID: TP-20-6

Prep Type: Total/NA

Prep Batch: 18350

| Analyte | Sample | Sample | Spike | MS | MS | Unit | D | %Rec | %Rec. | |
|------------------------|--------|-----------|-------|--------|-----------|-------|---|------|----------|--------|
| | Result | Qualifier | Added | Result | Qualifier | | | | Limits | Limits |
| Benzo[a]anthracene | 130 | | 281 | 462 | | ug/Kg | ☼ | 119 | 61 - 136 | |
| Chrysene | 180 | | 281 | 554 | | ug/Kg | ☼ | 134 | 57 - 144 | |
| Benzo[b]fluoranthene | 220 | | 281 | 573 | | ug/Kg | ☼ | 125 | 66 - 141 | |
| Benzo[k]fluoranthene | 93 | | 281 | 410 | | ug/Kg | ☼ | 113 | 63 - 150 | |
| Benzo[a]pyrene | 210 | F1 | 281 | 583 | F1 | ug/Kg | ☼ | 134 | 60 - 133 | |
| Indeno[1,2,3-cd]pyrene | 120 | | 281 | 469 | | ug/Kg | ☼ | 123 | 55 - 142 | |
| Dibenz(a,h)anthracene | 41 | | 281 | 328 | | ug/Kg | ☼ | 102 | 60 - 150 | |
| Benzo[g,h,i]perylene | 150 | | 281 | 502 | | ug/Kg | ☼ | 124 | 58 - 147 | |

| Surrogate | MS %Recovery | MS Qualifier | Limits |
|-------------------------|--------------|--------------|----------|
| Nitrobenzene-d5 | 76 | | 23 - 120 |
| 2-Fluorobiphenyl (Surr) | 80 | | 38 - 123 |
| p-Terphenyl-d14 | 92 | | 68 - 136 |

Lab Sample ID: 590-9053-3 MSD

Matrix: Solid

Analysis Batch: 18357

Client Sample ID: TP-20-6

Prep Type: Total/NA

Prep Batch: 18350

| Analyte | Sample | Sample | Spike | MSD | MSD | Unit | D | %Rec | %Rec. | | RPD | |
|------------------------|--------|-----------|-------|--------|-----------|-------|---|------|----------|-----|-------|--|
| | Result | Qualifier | Added | Result | Qualifier | | | | Limits | RPD | Limit | |
| Naphthalene | ND | | 276 | 202 | | ug/Kg | ☼ | 72 | 41 - 121 | 8 | 35 | |
| 2-Methylnaphthalene | ND | | 276 | 216 | | ug/Kg | ☼ | 78 | 39 - 132 | 0 | 35 | |
| 1-Methylnaphthalene | ND | | 276 | 238 | | ug/Kg | ☼ | 85 | 46 - 131 | 1 | 35 | |
| Acenaphthylene | ND | | 276 | 184 | | ug/Kg | ☼ | 67 | 56 - 123 | 1 | 35 | |
| Acenaphthene | 12 | | 276 | 208 | | ug/Kg | ☼ | 71 | 43 - 140 | 5 | 35 | |
| Fluorene | ND | | 276 | 245 | | ug/Kg | ☼ | 87 | 54 - 131 | 4 | 35 | |
| Phenanthrene | 68 | | 276 | 314 | | ug/Kg | ☼ | 89 | 55 - 141 | 7 | 35 | |
| Anthracene | 16 | | 276 | 280 | | ug/Kg | ☼ | 96 | 60 - 129 | 6 | 35 | |
| Fluoranthene | 180 | | 276 | 467 | | ug/Kg | ☼ | 106 | 63 - 141 | 13 | 35 | |
| Pyrene | 200 | | 276 | 506 | | ug/Kg | ☼ | 110 | 62 - 139 | 15 | 35 | |
| Benzo[a]anthracene | 130 | | 276 | 423 | | ug/Kg | ☼ | 107 | 61 - 136 | 9 | 35 | |
| Chrysene | 180 | | 276 | 461 | | ug/Kg | ☼ | 102 | 57 - 144 | 18 | 35 | |
| Benzo[b]fluoranthene | 220 | | 276 | 485 | | ug/Kg | ☼ | 95 | 66 - 141 | 17 | 35 | |
| Benzo[k]fluoranthene | 93 | | 276 | 371 | | ug/Kg | ☼ | 101 | 63 - 150 | 10 | 35 | |
| Benzo[a]pyrene | 210 | F1 | 276 | 502 | | ug/Kg | ☼ | 107 | 60 - 133 | 15 | 35 | |
| Indeno[1,2,3-cd]pyrene | 120 | | 276 | 407 | | ug/Kg | ☼ | 103 | 55 - 142 | 14 | 35 | |
| Dibenz(a,h)anthracene | 41 | | 276 | 295 | | ug/Kg | ☼ | 92 | 60 - 150 | 11 | 35 | |
| Benzo[g,h,i]perylene | 150 | | 276 | 438 | | ug/Kg | ☼ | 104 | 58 - 147 | 13 | 35 | |

| Surrogate | MSD %Recovery | MSD Qualifier | Limits |
|-------------------------|---------------|---------------|----------|
| Nitrobenzene-d5 | 84 | | 23 - 120 |
| 2-Fluorobiphenyl (Surr) | 80 | | 38 - 123 |
| p-Terphenyl-d14 | 94 | | 68 - 136 |

TestAmerica Spokane

QC Sample Results

Client: Hart Crowser, Inc.
Project/Site: Focused Phase II ESA

TestAmerica Job ID: 590-9053-4

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 590-18351/5-A
Matrix: Solid
Analysis Batch: 18384

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 18351

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|-----------|--------------|-----|-----|-------|---|----------------|----------------|---------|
| Arsenic | ND | | 1.3 | | mg/Kg | | 08/16/18 09:08 | 08/17/18 10:46 | 1 |
| Barium | ND | | 1.3 | | mg/Kg | | 08/16/18 09:08 | 08/17/18 10:46 | 1 |
| Cadmium | ND | | 1.0 | | mg/Kg | | 08/16/18 09:08 | 08/17/18 10:46 | 1 |
| Chromium | ND | | 1.3 | | mg/Kg | | 08/16/18 09:08 | 08/17/18 10:46 | 1 |
| Selenium | ND | ^ | 5.0 | | mg/Kg | | 08/16/18 09:08 | 08/17/18 10:46 | 1 |
| Silver | ND | | 1.3 | | mg/Kg | | 08/16/18 09:08 | 08/17/18 10:46 | 1 |

Lab Sample ID: LCS 590-18351/1-A
Matrix: Solid
Analysis Batch: 18384

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 18351

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|----------|-------------|------------|---------------|-------|---|------|--------------|
| Arsenic | 50.0 | 50.1 | | mg/Kg | | 100 | 80 - 120 |
| Barium | 50.0 | 52.0 | | mg/Kg | | 104 | 80 - 120 |
| Cadmium | 50.0 | 50.1 | | mg/Kg | | 100 | 80 - 120 |
| Chromium | 50.0 | 51.0 | | mg/Kg | | 102 | 80 - 120 |
| Selenium | 50.0 | 49.3 | ^ | mg/Kg | | 99 | 80 - 120 |
| Silver | 50.0 | 50.3 | | mg/Kg | | 101 | 80 - 120 |

Lab Sample ID: LCS 590-18351/2-A
Matrix: Solid
Analysis Batch: 18384

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 18351

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|----------|-------------|------------|---------------|-------|---|------|--------------|
| Arsenic | 50.0 | 49.8 | | mg/Kg | | 100 | 80 - 120 |
| Barium | 50.0 | 51.9 | | mg/Kg | | 104 | 80 - 120 |
| Cadmium | 50.0 | 49.9 | | mg/Kg | | 100 | 80 - 120 |
| Chromium | 50.0 | 50.5 | | mg/Kg | | 101 | 80 - 120 |
| Selenium | 50.0 | 48.4 | ^ | mg/Kg | | 97 | 80 - 120 |
| Silver | 50.0 | 50.3 | | mg/Kg | | 101 | 80 - 120 |

Lab Sample ID: LCS 590-18351/3-A
Matrix: Solid
Analysis Batch: 18384

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 18351

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|----------|-------------|------------|---------------|-------|---|------|--------------|
| Arsenic | 50.0 | 49.4 | | mg/Kg | | 99 | 80 - 120 |
| Barium | 50.0 | 52.3 | | mg/Kg | | 105 | 80 - 120 |
| Cadmium | 50.0 | 50.2 | | mg/Kg | | 100 | 80 - 120 |
| Chromium | 50.0 | 50.2 | | mg/Kg | | 100 | 80 - 120 |
| Selenium | 50.0 | 48.4 | ^ | mg/Kg | | 97 | 80 - 120 |
| Silver | 50.0 | 50.7 | | mg/Kg | | 101 | 80 - 120 |

Lab Sample ID: LCS 590-18351/4-A
Matrix: Solid
Analysis Batch: 18384

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 18351

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---------|-------------|------------|---------------|-------|---|------|--------------|
| Arsenic | 50.0 | 49.7 | | mg/Kg | | 99 | 80 - 120 |

TestAmerica Spokane

QC Sample Results

Client: Hart Crowser, Inc.
Project/Site: Focused Phase II ESA

TestAmerica Job ID: 590-9053-4

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: LCS 590-18351/4-A
Matrix: Solid
Analysis Batch: 18384

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 18351

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|----------|-------------|------------|---------------|-------|---|------|--------------|
| Barium | 50.0 | 52.6 | | mg/Kg | | 105 | 80 - 120 |
| Cadmium | 50.0 | 50.5 | | mg/Kg | | 101 | 80 - 120 |
| Chromium | 50.0 | 51.3 | | mg/Kg | | 103 | 80 - 120 |
| Selenium | 50.0 | 49.1 | ^ | mg/Kg | | 98 | 80 - 120 |
| Silver | 50.0 | 51.0 | | mg/Kg | | 102 | 80 - 120 |

Lab Sample ID: 590-9053-3 MS
Matrix: Solid
Analysis Batch: 18384

Client Sample ID: TP-20-6
Prep Type: Total/NA
Prep Batch: 18351

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|----------|---------------|------------------|-------------|-----------|--------------|-------|---|------|--------------|
| Arsenic | 9.9 | | 49.0 | 54.2 | | mg/Kg | | 90 | 75 - 125 |
| Barium | 160 | F1 | 49.0 | 210 | | mg/Kg | | 100 | 75 - 125 |
| Cadmium | ND | | 49.0 | 45.8 | | mg/Kg | | 93 | 75 - 125 |
| Chromium | 13 | | 49.0 | 59.3 | | mg/Kg | | 95 | 75 - 125 |
| Selenium | ND | ^ | 49.0 | 42.4 | ^ | mg/Kg | | 86 | 75 - 125 |
| Silver | ND | | 49.0 | 46.8 | | mg/Kg | | 95 | 75 - 125 |

Lab Sample ID: 590-9053-3 MSD
Matrix: Solid
Analysis Batch: 18384

Client Sample ID: TP-20-6
Prep Type: Total/NA
Prep Batch: 18351

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|----------|---------------|------------------|-------------|------------|---------------|-------|---|------|--------------|-----|-----------|
| Arsenic | 9.9 | | 48.1 | 56.5 | | mg/Kg | | 97 | 75 - 125 | 4 | 20 |
| Barium | 160 | F1 | 48.1 | 231 | F1 | mg/Kg | | 145 | 75 - 125 | 9 | 20 |
| Cadmium | ND | | 48.1 | 45.5 | | mg/Kg | | 95 | 75 - 125 | 1 | 20 |
| Chromium | 13 | | 48.1 | 61.1 | | mg/Kg | | 101 | 75 - 125 | 3 | 20 |
| Selenium | ND | ^ | 48.1 | 40.9 | ^ | mg/Kg | | 85 | 75 - 125 | 4 | 20 |
| Silver | ND | | 48.1 | 46.1 | | mg/Kg | | 96 | 75 - 125 | 1 | 20 |

Lab Sample ID: 590-9053-3 DU
Matrix: Solid
Analysis Batch: 18384

Client Sample ID: TP-20-6
Prep Type: Total/NA
Prep Batch: 18351

| Analyte | Sample Result | Sample Qualifier | DU Result | DU Qualifier | Unit | D | RPD | RPD Limit |
|----------|---------------|------------------|-----------|--------------|-------|---|-----|-----------|
| Arsenic | 9.9 | | 10.1 | | mg/Kg | | 1 | 20 |
| Barium | 160 | F1 | 175 | | mg/Kg | | 8 | 20 |
| Cadmium | ND | | ND | | mg/Kg | | NC | 20 |
| Chromium | 13 | | 13.5 | | mg/Kg | | 7 | 20 |
| Selenium | ND | ^ | ND | | mg/Kg | | NC | 20 |
| Silver | ND | | ND | | mg/Kg | | NC | 20 |

QC Sample Results

Client: Hart Crowser, Inc.
Project/Site: Focused Phase II ESA

TestAmerica Job ID: 590-9053-4

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 590-18355/9-A
Matrix: Solid
Analysis Batch: 18383

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 18355

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|-----------|--------------|----|-----|-------|---|----------------|----------------|---------|
| Mercury | ND | | 50 | | ug/Kg | | 08/16/18 09:27 | 08/17/18 11:06 | 1 |

Lab Sample ID: LCS 590-18355/8-A
Matrix: Solid
Analysis Batch: 18383

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 18355

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---------|-------------|------------|---------------|-------|---|------|--------------|
| Mercury | 200 | 208 | | ug/Kg | | 104 | 80 - 120 |

Lab Sample ID: 590-9053-3 MS
Matrix: Solid
Analysis Batch: 18383

Client Sample ID: TP-20-6
Prep Type: Total/NA
Prep Batch: 18355

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---------|---------------|------------------|-------------|-----------|--------------|-------|---|------|--------------|
| Mercury | ND | | 200 | 235 | | ug/Kg | | 106 | 80 - 120 |

Lab Sample ID: 590-9053-3 MSD
Matrix: Solid
Analysis Batch: 18383

Client Sample ID: TP-20-6
Prep Type: Total/NA
Prep Batch: 18355

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---------|---------------|------------------|-------------|------------|---------------|-------|---|------|--------------|-----|-----------|
| Mercury | ND | | 200 | 234 | | ug/Kg | | 105 | 80 - 120 | 0 | 20 |

Lab Sample ID: 590-9053-3 DU
Matrix: Solid
Analysis Batch: 18383

Client Sample ID: TP-20-6
Prep Type: Total/NA
Prep Batch: 18355

| Analyte | Sample Result | Sample Qualifier | DU Result | DU Qualifier | Unit | D | RPD | RPD Limit |
|---------|---------------|------------------|-----------|--------------|-------|---|-----|-----------|
| Mercury | ND | | ND | | ug/Kg | | NC | 20 |

Lab Chronicle

Client: Hart Crowser, Inc.
Project/Site: Focused Phase II ESA

TestAmerica Job ID: 590-9053-4

Client Sample ID: TP-20-6

Date Collected: 08/02/18 10:00

Date Received: 08/02/18 14:45

Lab Sample ID: 590-9053-3

Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 3050B | | | 1.18 g | 50 mL | 18351 | 08/16/18 09:08 | JSP | TAL SPK |
| Total/NA | Analysis | 6010C | | 2 | | | 18384 | 08/17/18 10:50 | JSP | TAL SPK |
| Total/NA | Prep | 7471B | | | 0.59 g | 50 mL | 18355 | 08/16/18 09:27 | JSP | TAL SPK |
| Total/NA | Analysis | 7471B | | 1 | | | 18383 | 08/17/18 11:08 | JSP | TAL SPK |

Client Sample ID: TP-20-6

Date Collected: 08/02/18 10:00

Date Received: 08/02/18 14:45

Lab Sample ID: 590-9053-3

Matrix: Solid

Percent Solids: 94.7

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 3550C | | | 15.55 g | 2 mL | 18350 | 08/16/18 08:52 | MO | TAL SPK |
| Total/NA | Analysis | 8270D SIM | | 1 | | | 18357 | 08/16/18 13:36 | NMI | TAL SPK |

Client Sample ID: TP-15-6

Date Collected: 08/02/18 11:00

Date Received: 08/02/18 14:45

Lab Sample ID: 590-9053-13

Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 3050B | | | 1.11 g | 50 mL | 18351 | 08/16/18 09:08 | JSP | TAL SPK |
| Total/NA | Analysis | 6010C | | 2 | | | 18384 | 08/17/18 11:21 | JSP | TAL SPK |
| Total/NA | Prep | 7471B | | | 0.61 g | 50 mL | 18355 | 08/16/18 09:27 | JSP | TAL SPK |
| Total/NA | Analysis | 7471B | | 1 | | | 18383 | 08/17/18 11:17 | JSP | TAL SPK |

Client Sample ID: TP-15-6

Date Collected: 08/02/18 11:00

Date Received: 08/02/18 14:45

Lab Sample ID: 590-9053-13

Matrix: Solid

Percent Solids: 95.7

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 3550C | | | 15.21 g | 2 mL | 18350 | 08/16/18 08:53 | MO | TAL SPK |
| Total/NA | Analysis | 8270D SIM | | 1 | | | 18357 | 08/16/18 14:01 | NMI | TAL SPK |

Client Sample ID: TP-16-6

Date Collected: 08/02/18 11:11

Date Received: 08/02/18 14:45

Lab Sample ID: 590-9053-37

Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 3050B | | | 1.41 g | 50 mL | 18351 | 08/16/18 09:08 | JSP | TAL SPK |
| Total/NA | Analysis | 6010C | | 2 | | | 18384 | 08/17/18 11:25 | JSP | TAL SPK |
| Total/NA | Prep | 7471B | | | 0.62 g | 50 mL | 18355 | 08/16/18 09:27 | JSP | TAL SPK |
| Total/NA | Analysis | 7471B | | 1 | | | 18383 | 08/17/18 11:19 | JSP | TAL SPK |

TestAmerica Spokane

Lab Chronicle

Client: Hart Crowser, Inc.
Project/Site: Focused Phase II ESA

TestAmerica Job ID: 590-9053-4

Client Sample ID: TP-16-6

Date Collected: 08/02/18 11:11

Date Received: 08/02/18 14:45

Lab Sample ID: 590-9053-37

Matrix: Solid

Percent Solids: 95.0

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 3550C | | | 15.75 g | 2 mL | 18350 | 08/16/18 08:53 | MO | TAL SPK |
| Total/NA | Analysis | 8270D SIM | | 1 | | | 18357 | 08/16/18 14:26 | NMI | TAL SPK |

Laboratory References:

TAL SPK = TestAmerica Spokane, 11922 East 1st Ave, Spokane, WA 99206, TEL (509)924-9200



Accreditation/Certification Summary

Client: Hart Crowser, Inc.
Project/Site: Focused Phase II ESA

TestAmerica Job ID: 590-9053-4

Laboratory: TestAmerica Spokane

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

| Authority | Program | EPA Region | Identification Number | Expiration Date |
|------------|---------------|------------|-----------------------|-----------------|
| Washington | State Program | 10 | C569 | 01-06-19 |

| Analysis Method | Prep Method | Matrix | Analyte |
|-----------------|-------------|--------|---------|
|-----------------|-------------|--------|---------|

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12

Method Summary

Client: Hart Crowser, Inc.
Project/Site: Focused Phase II ESA

TestAmerica Job ID: 590-9053-4

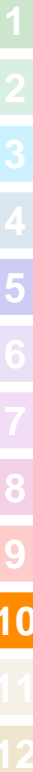
| Method | Method Description | Protocol | Laboratory |
|-----------|--|----------|------------|
| 8270D SIM | Semivolatile Organic Compounds (GC/MS SIM) | SW846 | TAL SPK |
| 6010C | Metals (ICP) | SW846 | TAL SPK |
| 7471B | Mercury (CVAA) | SW846 | TAL SPK |
| 3050B | Preparation, Metals | SW846 | TAL SPK |
| 3550C | Ultrasonic Extraction | SW846 | TAL SPK |
| 7471B | Preparation, Mercury | SW846 | TAL SPK |

Protocol References:

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

Laboratory References:

TAL SPK = TestAmerica Spokane, 11922 East 1st Ave, Spokane, WA 99206, TEL (509)924-9200



Sample Custody Record

Samples Shipped to: TEST AMERICA



HART CROWSNER

Page 1 of 3

Hart Crowsner, Inc.
3131 Elliott Avenue, Suite 602
Seattle, Washington 98112
Office: 206.324.9530 • Fax 206.328.5587

JOB CVSD LAB NUMBER _____
PROJECT NAME FOCUSED PHASE II BSA
HART CROWSNER CONTACT JOHN HANEY

SAMPLED BY: W. McBRIDE

REQUESTED ANALYSIS

LEAD (TOTAL)
PAIN'S

NO. OF CONTAINERS

OBSERVATIONS/COMMENTS/

590-9053 Chain of Custody

| LAB NO. | SAMPLE ID | DESCRIPTION | DATE | TIME | MATRIX | | | | | | |
|------------------------------|-----------|-------------|------------------------------|------|--------|--|---|--|--|--|--|
| | TP-19-6 | | 8/2/18 | 0958 | SOIL | X | X | | | | |
| | TP-19-12 | | | 0951 | | X | X | | | | |
| | TP-20-6 | | | 1000 | | X | X | | | | |
| | TP-20-12 | | | 1001 | | X | X | | | | |
| | TP-20-6 | | | 1010 | | X | X | | | | |
| | TP-26-6 | | | 1011 | | X | X | | | | |
| | TP-21-12 | | | 1020 | | X | X | | | | |
| | TP-22-6 | | | 1021 | | X | X | | | | |
| | TP-23-6 | | | 1030 | | X | X | | | | |
| | TP-25-12 | | | 1031 | | X | X | | | | |
| RELINQUISHED BY | | DATE | RECEIVED BY | | DATE | SPECIAL SHIPMENT HANDLING OR STORAGE REQUIREMENTS: | | | | | |
| SIGNATURE <u>W. McBRIDE</u> | | 8/2/18 | SIGNATURE <u>John Haney</u> | | 8/2/18 | See Lab Work Order No. _____ for Other Contract Requirements | | | | | |
| PRINT NAME <u>W. McBRIDE</u> | | | PRINT NAME <u>John Haney</u> | | | | | | | | |
| COMPANY <u>HART CROWSNER</u> | | | COMPANY <u>HC</u> | | | COOLER NO.: _____ STORAGE LOCATION: _____ | | | | | |
| RELINQUISHED BY | | DATE | RECEIVED BY | | DATE | TOTAL NUMBER OF CONTAINERS | | | | | |
| SIGNATURE <u>John Haney</u> | | 8/2/18 | SIGNATURE <u>W. McBRIDE</u> | | 8/2/18 | SAMPLE RECEIPT INFORMATION CUSTODY SEALS: <input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A GOOD CONDITION <input type="checkbox"/> YES <input type="checkbox"/> NO TEMPERATURE _____ SHIPMENT METHOD: <input type="checkbox"/> HAND <input type="checkbox"/> COURIER <input type="checkbox"/> OVERNIGHT | | | | | |
| PRINT NAME <u>John Haney</u> | | | PRINT NAME <u>W. McBRIDE</u> | | | | | | | | |
| COMPANY <u>HC</u> | | | COMPANY <u>HC</u> | | | TURNAROUND TIME: <input type="checkbox"/> 24 HOURS <input type="checkbox"/> 1 WEEK <input type="checkbox"/> 48 HOURS <input type="checkbox"/> STANDARD <input checked="" type="checkbox"/> 172 HOURS OTHER _____ | | | | | |

White to Lab Yellow to Project Manager Pink to Sample Custodian 7651804

Sample Custody Record

Samples Shipped to: TEST AMERICA



Page 3 of 3

Hart Crowsner, Inc.
3131 Elliott Avenue, Suite 602
Seattle, Washington 98122
Office: 206.324.9530 • Fax 206.328.5583

JOB CUSD LAB NUMBER _____
 PROJECT NAME FOCUSED PHASE II ESA
 HART CROWSER CONTACT J HANEY
 SAMPLED BY: W. MEDENARD

| LAB NO. | SAMPLE ID | DESCRIPTION | DATE | TIME | MATRIX | REQUESTED ANALYSIS | NO. OF CONTAINERS | OBSERVATIONS/COMMENTS/ COMPOSITING INSTRUCTIONS |
|---------|-----------|-------------|--------|------|--------|--------------------|-------------------|--|
| | TP-9-6 | | 8/2/18 | 1150 | Soil | | | Hold |
| | TP-9-12 | | | 1151 | | | | Hold |
| | TP-8-6 | | | 1200 | | | | Hold |
| | TP-8-12 | | | 1201 | | | | Hold |
| | TP-7-6 | | | 1210 | | | | Hold |
| | TP-7-12 | | | 1211 | | | | Hold |
| | TP-5-6 | | | 1220 | | | | Hold |
| | TP-5-12 | | | 1221 | | | | Hold |
| | TP-4-6 | | | 1230 | | | | Hold |
| | TP-4-12 | | | 1231 | | | | Hold |
| | TP-2-6 | | | 1246 | | | | Hold |
| | TP-2-12 | | | 1241 | | | | Hold |

RELINQUISHED BY: [Signature] DATE: 8/2/18
 SIGNATURE: [Signature] TIME: 14:44
 PRINT NAME: JANEY
 COMPANY: HC

RECEIVED BY: [Signature] DATE: 8/2/18
 SIGNATURE: [Signature] TIME: 14:44
 PRINT NAME: JANEY
 COMPANY: HC

RECEIVED BY: [Signature] DATE: 8/2/18
 SIGNATURE: [Signature] TIME: 14:44
 PRINT NAME: JANEY
 COMPANY: HC

RELINQUISHED BY: [Signature] DATE: 8/2/18
 SIGNATURE: [Signature] TIME: 14:44
 PRINT NAME: JANEY
 COMPANY: HC

RECEIVED BY: [Signature] DATE: 8/2/18
 SIGNATURE: [Signature] TIME: 14:44
 PRINT NAME: JANEY
 COMPANY: HC

COOLER NO.: _____ STORAGE LOCATION: _____

See Lab Work Order No. _____
 for Other Contract Requirements

TURNAROUND TIME:
 24 HOURS 1 WEEK
 48 HOURS STANDARD
 72 HOURS OTHER _____

SAMPLE RECEIPT INFORMATION
 CUSTODY SEALS: YES NO N/A
 GOOD CONDITION: YES NO
 TEMPERATURE: _____
 SHIPMENT METHOD: HAND OVERNIGHT
 COURIER

TOTAL NUMBER OF CONTAINERS: _____

White to Lab Yellow to Project Manager Pink to Sample Custodian 7.6 & 1004

Sample Custody Record

Samples Shipped to: TEST AMERICA, SPOKANE



Hart Crowsner, Inc.
3131 Elliott Avenue, Suite 602
Seattle, Washington 98122
Office: 206.324.9530 • Fax 206.328.5588

JOB CVSD LAB NUMBER _____
 PROJECT NAME FOCUSED PHASE II ESA
 HART CROWSER CONTACT JOHN HAWLEY
 SAMPLED BY: JTH

| LAB NO. | SAMPLE ID | DESCRIPTION | DATE | TIME | MATRIX | REQUESTED ANALYSIS | NO. OF CONTAINERS | OBSERVATIONS/COMMENTS/ COMPOSITING INSTRUCTIONS |
|---------|-----------|-------------|--------|-------|--------|--------------------|-------------------|--|
| | | | | | | LEAD(TOTAL) PAN | | |
| | TP-18-6 | Soil | 8/2/18 | 10:50 | S | X | 1 | Hold |
| | TP-18-12 | | | 10:54 | | X | 1 | Hold |
| | TP-16-6 | | | 11:11 | | X | 1 | Hold |
| | TP-16-12 | | | 11:15 | | X | 1 | Hold |
| | TP-14-6 | | | 11:30 | | X | 1 | Hold |
| | TP-14-12 | | | 11:35 | | X | 1 | Hold |
| | TP-12-6 | | | 11:50 | | X | 1 | Hold |
| | TP-12-12 | | | 11:55 | | X | 1 | Hold |
| | TP-6-6 | | | 12:25 | | X | 1 | Hold |
| | TP-6-12 | | | 12:30 | | X | 1 | Hold |
| | TP-3-6 | | | 12:45 | | X | 1 | Hold |
| | TP-3-12 | | | 12:50 | | X | 1 | Hold |

RELINQUISHED BY: [Signature] DATE: 8/2/18
 RECEIVED BY: [Signature] DATE: 8/2/18
 SIGNATURE: [Signature] TIME: _____
 PRINT NAME: JOHN HAWLEY TIME: _____
 COMPANY: _____ COMPANY: _____

RELINQUISHED BY: _____ DATE: _____
 RECEIVED BY: _____ DATE: _____
 SIGNATURE: _____ TIME: _____
 PRINT NAME: _____ TIME: _____
 COMPANY: _____ COMPANY: _____

COOLER NO.: _____ STORAGE LOCATION: _____
 See Lab Work Order No. _____
 for Other Contract Requirements

TOTAL NUMBER OF CONTAINERS: 12
 SAMPLE RECEIPT INFORMATION
 CUSTODY SEALS: YES NO N/A
 GOOD CONDITION: YES NO
 TEMPERATURE: _____
 SHIPMENT METHOD: HAND COURIER OVERNIGHT
 TURNAROUND TIME: 24 HOURS 1 WEEK
 48 HOURS STANDARD
 72 HOURS OTHER _____

Login Sample Receipt Checklist

Client: Hart Crowser, Inc.

Job Number: 590-9053-4

Login Number: 9053

List Source: TestAmerica Spokane

List Number: 1

Creator: Kratz, Sheila J

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