



Remedial Investigation/Feasibility Study

Spokane Gun Club

19615 E Sprague Ave

Spokane Valley, Washington

Prepared for

Central Valley School District

September 20, 2021

150-014-004

 **HARTCROWSER**

A division of Haley & Aldrich

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Prepared by
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Spokane Gun Club

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1.0 INTRODUCTION

Hart Crowser, a Division of Haley and Aldrich (Hart Crowser), has prepared this Remedial Investigation (RI) and Feasibility Study (FS) report on behalf of the Central Valley School District (CVSD) for the Spokane Gun Club (Gun Club) property located at 19615 E Sprague Ave #9656 in Spokane Valley, Washington (herein referenced as “subject property”). The location of the subject property and surrounding area are shown on “Site Vicinity”, Figure 1. The subject property is listed by the Washington State Department of Ecology (Ecology) as Cleanup Site 14851.

The subject property has been impacted by lead and polycyclic aromatic hydrocarbons (PAHs) from use as a shooting range; lead contamination is the result of the accumulation of lead shot and the PAHs are the result of the accumulation of clay target debris (PAHs originate from coal and petroleum binders used to manufacture clay target targets). The purpose of this RI is to provide sufficient information to characterize the nature, magnitude, and extent of contamination at a site. This RI summarizes the findings and results of the Phase I and Phase II Environmental Site Assessment (ESA) activities conducted by Hart Crowser between July 2018 and March 2021. Results of this RI will be used to inform a FS and Cleanup Action Plan for the subject property.

2.0 BACKGROUND

The subject property includes the following Spokane County Parcels as shown in “Site Plan”, Figure 2: parcel number 55174.9043 (approximately 21.97-acres), parcel number 55174.9021 and 55174.9022 (approximately 39.09-acres combined), and parcel number 55174.9084 (approximately 12.57-acres. Excluding the Gun Club Building and trap and skeet shooting structures located on parcel numbers 55174.9021 and 55174.9022, the subject property generally consists of undeveloped grass fields. The Subject Property is bounded by vacant property to the north along West Appleway Avenue, residential property and the newly constructed Ridgeline High School to the east, East Sprague Avenue to the south, and residential properties and Consolidated Irrigation District Number 19 (Irrigation District) property to the west.

The subject property was purchased by the CVSD in 2018 and the Gun Club (the former owner) continued to operate the trap and skeet range on the property until July 2021. The history of the subject property, geology/hydrogeology, previous environmental investigations, site assessments, and sampling and analytical results are summarized in the following sections.

2.1 Site History

Since 1938 the subject property was predominantly undeveloped farmland (Hart Crowser, 2018). Historic aerial photographs indicate there were slight changes in the delineation of fields and unpaved roads within the subject property boundaries, but the property remained undeveloped until sometime between 1946 and 1950. The Gun Club reportedly was constructed in 1948 and the Gun Club operated from 1948 until July 2021.

During operations as a trap/skeet range, the Gun Club periodically recovered and recycled lead shot from the range area northeast of the shooting stations. Now that operations have ceased, The Gun Club is in the process of conducting one more round of lead recovery before vacating the property.

2.2 Site Geology & Hydrogeology

The subject property is located on the eastern side of the Spokane Valley that, geologically, is an area predominantly characterized by Pleistocene flood deposits resulting from multiple episodes of outbursts from glacially-dammed Lake Missoula. These deposits consist of poorly-to-moderately, well-sorted, stratified deposits of boulder, cobbles, gravel, and sand with interbedded silt lenses. According to the Washington Interactive Geologic Map, the majority of the subject property consists of these flood deposits.

The northeastern section of the subject property also is underlain by Paleozoic heterogeneous metamorphic rock, defined by the United States Geological Survey (USGS) as Hauser Lake Gneiss. Geotechnical borings in the area indicate the presence of sand with trace gravel near the surface, underlain by sandy gravel and bedrock at approximately 60 feet below ground surface (bgs). Soil encountered during Phase II ESA activities generally consisted of silty gravel with sand, trace clay, and occasional cobbles to a depth of 9 feet bgs in test pits and borings. Exploration logs are provided in Appendix A.

Based on USGS Scientific Investigations Report 2007-5044, the subject property is located near the boundary of the Spokane Valley-Rathdrum Prairie (SVRP) Aquifer, an EPA-designated sole-source aquifer that underlies the Spokane Valley, and an alluvial aquifer that underlies the toe of the Carlson Hill to the south. The inferred groundwater flow in the SVRP aquifer in this part of the valley is to the west-southwest; however, the alluvial aquifer at the nearby Greenacres Landfill site to the southeast reportedly has inferred flow components that are more to the north-northwest. According to Ecology's well log database, there is one water supply well on the subject property and two water supply wells on the adjacent property owned by the Irrigation District. Boring logs for these wells indicate that the subsurface primarily consists of varying amounts of sand, gravels, boulders, and clay to the maximum depth explored (287 feet bgs). The static water level (SWL) in the Gun Club well was recorded at a depth of 98 feet bgs. The well logs for these three wells are provided in Appendix A.

3.0 REMEDIAL INVESTIGATION & INTERIM ACTIONS

Hart Crowser conducted a Phase I ESA on parcels 55163.9004, 55174.9007, 55174.9009, 55174.9011, and 55174.9014 (i.e., the northern and eastern parcels of the subject property and parcels to the east) in August 2018. Results of the Phase I ESA are documented in the “Phase I Environmental Site Assessment, North Henry Road and East Sprague Avenue” (Hart Crowser 2018A). Phase II ESA activities were conducted concurrently with the Phase I ESA at the subject property between July 2018 and February 2021. Assessment activities conducted in 2018 are detailed in the “Focused Phase II Environmental Site Assessment; North Henry Road and East Sprague Avenue, Greenacres, Washington” technical memorandum (Hart Crowser 2018B). Additionally, an interim action was conducted to remove contaminated stockpiles and address a hot spot of lead-contaminated soil along the northern boundary of parcel 55174.9084 in September 2018. The interim action was completed to expedite the construction of Ridgeline High School on the parcels of land east of the subject property. Activities related to the stockpile removal and hot-spot excavation are detailed in the January 4, 2019 “Interim Action Report, Former Spokane Gun Club Property” (Hart Crowser 2019).

In total, Phase II ESA activities have included: excavating 98 test pits, advancing 19 direct-push borings (drilled by Cascade Environmental [Cascade]), and drilling 20 sonic borings (drilled by Anderson Environmental Services [AES]). Test pits, direct push borings, and sonic boring locations are shown on Figures 2 through 4 and test pit/boring logs for each exploration, including the total depth explored, are provided in Appendix A. Summarized findings from the Phase I ESA, Phase II ESA, Interim Action, and Phase II Data Gap ESA are provided in the subsequent sections.

3.1 Phase I ESA

The Phase I ESA identified the following recognized environmental conditions (RECs) for the subject property:

- Several stockpiles of unknown origin were observed on parcels 55174.9007, 55174.9009, 55174.9011, and 55163.9004. The stockpiles primarily consisted of soil; however, the stockpile observed on parcel 55174.9011 also contained wood, concrete, and clay target/shotgun shell debris (the composition of clay targets typically is a mixture of limestone and a tar or pitch binder that can contain PAHs).
- Based on analytical data collected during the concurrent limited Phase II ESA, total arsenic, lead, and/or PAH concentrations in soil samples collected from 6 and/or 12 inches bgs in select test pits excavated on parcel 55174.9011 were greater than Ecology’s Model Toxics Control Act (MTCA) cleanup levels for unrestricted land use. Additionally, the total lead concentration in a soil sample collected from 6 inches bgs on parcel 55174.9009 was 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).
- The Gun Club periodically recovered lead shot northeast of the shooting stations. Based on Ecology records reviewed by Hart Crowser (specifically photograph logs), it appears that shot recovery

activities might have been conducted on the southwestern portion of parcel 55174.9007 using water and a series of temporary settling ponds constructed of tarps and earthen berms to segregate materials. Photographs show water outside of the settling ponds, pooled on the ground surface and there is potential this water contained lead at concentrations greater than MTCA cleanup levels which then infiltrated into and contaminated the soil.

3.2 Limited Phase II ESA

Initial Phase II ESA activities included excavating 23 test pits (TP-1 through TP-23) using a Bobcat 323 mini-excavator. These test pits were excavated along parcel boundaries and at the extent of potential shot fall from the shooting range (about 750 feet from the shooting stations). The materials encountered were described on the test pit logs, with any observed lead shot or clay target debris being specifically documented. Soil samples were collected from approximately 6 inches and 12 inches bgs in each test pit for analysis.

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 target debris was observed in three test pits: TP-17, TP-18, and TP-19.

Soil samples were transported to Eurofins Environment Testing America (TestAmerica) laboratories in Spokane Valley, Washington for analysis and analyzed for total lead, using US Environmental Protection Agency (EPA) Method 1610 and/or PAHs using EPA Method 8270. Total lead and PAHs 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 and PAH 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.

Lead concentrations detected 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. Results of the focused Phase II ESA found that, at least a portion of the site is impacted by metals and PAHs and the extent of contamination required additional assessment. Analytical results are summarized in “Summary of Chemical Analytical Results – Metals in Soil”, Table 1; and “Summary of Chemical Analytical Results – PAHs in Soil”, Table 2.

3.3 Interim Action

CVSD engaged Clean Harbors to conduct interim actions at the High School property between September and November 2018. Interim actions included removing the stockpiles and remediating lead-contaminated soil in the vicinity of test pit TP-12. Prior to remediating the TP-12 area, Hart Crowser excavated and sampled four additional test pits (TP-24 through TP-27) to assess the extent of lead contamination. Hart Crowser collected soil samples from approximately 6 inches bgs in test pits TP-24 through TP-27 and submitted the samples to TestAmerica for analysis. TestAmerica analyzed the samples

for lead using EPA Method 6010C. Analytical results indicate lead concentrations ranged between 25.6 and 170 mg/kg—less than the applicable MTCA Method A cleanup level of 250 mg/kg (see Table 1).

Clean Harbors excavated the test pit TP-12 location on November 12, 2018. A Hart Crowser representative delineated the excavation area based on analytical results from test pits TP-24 through TP-27 and observed the removal of soil from the TP-12 location to a depth of approximately 8 inches. The limits of the excavation were approximately 20 feet by 20 feet (400 square feet). After the excavation limits had been reached, a Hart Crowser representative collected two confirmation soil samples (TP-12EX-N and TP-12EX-S) from the bottom of the excavation.

TestAmerica analyzed the two confirmation samples for lead using EPA Method 6010C. Lead was detected at concentrations of 29 and 27 mg/kg for TP-12EX-N and TP-12EX-S, respectively (Table 1). Based on these results, no additional excavation was conducted; the material excavated was designated as non-hazardous waste; transported to Waste Management's Resource Conservation and Recovery Act (RCRA) Subtitle D landfill, Graham Road, in Medical Lake, Washington; and disposed of on November 28, 2018. Approximately 19.6 tons of material was disposed from the TP-12 excavation.

3.4 Phase II Data Gap ESA

Hart Crowser conducted additional Phase II ESA activities between 2018 and 2021. A total of 69 test pits (TP-28 through TP-63 and TP-66 through TP-98) were excavated, 19 direct-push borings (B-1 through B-19) advanced, and 20 sonic borings (SB-1 through SB-20) drilled. These activities were completed between 6 inches and 9 feet bgs. The locations of these, and previous assessment locations are shown on Figures 2 through 4.

Lead pellets and fragmented clay target debris were observed at various locations and depths across the subject property. Lead shot and clay target debris were used as visual indicators of potential contamination in soil because concentrations of lead greater than 250 milligrams per kilogram (mg/kg), concentrations of naphthalene greater than 5 mg/kg, and concentrations of PAH greater than 100 micrograms per kilogram ($\mu\text{g}/\text{kg}$) require cleanup under MTCA Method A for unrestricted land use. Hart Crowser observed the majority of shot and debris located at ground surface northeast of the shooting range between soil borings SB-1 and SB-17 directly in front of the shooting stations (see Figure 2).

A debris stockpile was identified near the southwest corner of parcel 55174.9084 near borings B-9 through B-13, SB-18 through SB-20, and test pit TP-55 (See Figure 2). The stockpile consists primarily of fragmented clay target debris, plastic shotgun shell wadding, soil, concrete debris, and wood. It is likely that this material was screened from shooting range soil and placed at this location during previous lead recovery events. It is also possible that the concrete and wood debris is the result of unauthorized dumping. Additional details about sampling protocols, analyses, and analytical results from the Phase II data gap ESA are provided in the following sections.

3.4.1 Sampling and Analysis

During each assessment event, Hart Crowser conducted visual screening for lead shot and clay target debris, prepared test pit/boring logs of the soil encountered, collected soil samples to assess for contamination, and submitted soil samples for analysis. Hart Crowser collected soil samples approximately every 12-inches between the ground surface and the bottom of the exploration (up to 9 feet bgs). Generally, assessment locations in the debris stockpile and the range area in front of the shooting stations were assessed deeper than other locations (see boring logs in Appendix A).

Soil samples were visually screened for lead shot and/or clay target debris and then placed in laboratory-provided sample containers for potential analysis. Samples were stored in an insulated cooler with ice until delivered to the laboratory for analysis. Hart Crowser submitted select samples to TestAmerica for chemical analyses. The soil samples were analyzed for lead and/or RCRA 8 metals using EPA Methods 6010C/6010D and 7471B (for mercury) and PAH using EPA Method 8270. Select soil samples also were analyzed for leachable lead using the Toxicity Characteristic Leaching Procedure (TCLP) extraction method (EPA Method 1311) followed by lead analysis by EPA Method 6010C/6010D. In total during the Phase II ESA investigations, Hart Crowser submitted eight samples for RCRA 8 metals, 23 samples for arsenic, 143 samples for lead, 10 samples for leachable lead, and 178 samples for PAH analyses. Analytical results are summarized in Tables 1 and 2 and the laboratory reports are provided in Appendix B.

3.4.2 Analytical Results-Metals

Arsenic was detected in 31 of the samples submitted for analysis. Detected concentrations ranged between 5.9 and 84 mg/kg. Four samples (TP-19-6, TP-35-6, TP-37-6, and SB-6 (0-1)) contained total arsenic concentrations that were greater than the MTCA Method A unrestricted land use cleanup level of 20 mg/kg; however, the samples TP-19-6, TP-35-6, TP-37-6 were 21, 22, and 21 mg/kg, respectively, and only slightly greater than the cleanup level. These four samples were collected from the top 12 inches of soil in each assessment location. The remaining samples contained arsenic at concentrations less than the MTCA Method A cleanup level for unrestricted land use.

Lead was detected in each of the 161 samples submitted for analysis. Lead concentrations ranged between 7.1 mg/kg and 50,000 mg/kg. A total of 161 samples were collected and 47 of those samples contained lead at concentrations greater than the MTCA Method A unrestricted land use cleanup level of 250 mg/kg (see Table 2). Lead detections in the remaining samples analyzed were less than the MTCA Method A cleanup level.

Hart Crowser submitted 10 samples with total lead concentrations between 30 and 13,000 mg/kg for leachability testing using TCLP. Analytical results indicate leachable lead concentrations ranged between 0.12 mg/L in sample SB-10 (0-1) and 30 mg/L in sample SB-11 (0-1); three of the samples analyzed, SB-3 (0-1), SB-11 (0-1), and SB-15 (0-1), contained leachable lead concentrations greater than the Dangerous Waste maximum concentration of 5.0 milligrams per liter (mg/L) for the toxicity characteristic. Leachable lead results are summarized in Table 1.

Chemical analytical results indicate lead contamination exceeding the MTCA Method A cleanup level for unrestricted land use at the subject property is present from ground surface to approximately 3 feet bgs. Hart Crowser used this data and assessment location data to prepare an isopach map of lead-contaminated soil by depth at the subject property. The map is provided in “Lead In Soil”, Figure 3.

Hart Crowser conducted an analysis comparing total lead concentrations against leachable lead concentrations by charting the analytical results on a logarithmic scale. The purpose of this analysis was to estimate the likely total lead concentration that could result in a leachable lead concentration that exceeds the Dangerous Waste criteria for the toxicity characteristic. That analysis is provided in “Total Lead Versus Leachable Lead”, Figure 4. Results of this analysis indicate that a total lead concentration of 3,550 mg/kg or greater likely would result in a leachable lead concentration that exceeds Dangerous Waste criteria. Hart Crowser used this analysis to generate isopachs for soil that likely would characterize as Dangerous Waste during cleanup; however, the predicted total lead concentration used was reduced 3,250 mg/kg as a factor of safety. These isopachs also are shown on Figure 3.

3.4.3 Analytical Results-PAH

PAHs were detected in 147 of the 178 samples analyzed. Four of the samples analyzed contained total naphthalene concentrations that are greater than the MTCA Method A unrestricted land use cleanup level of 5,000 micrograms per kilogram ($\mu\text{g}/\text{kg}$) while 88 of the samples analyzed contained concentrations of benzo(a)pyrene (BaP) that are greater than the MTCA Method A unrestricted land use cleanup level of 100 $\mu\text{g}/\text{kg}$. Hart Crowser also used PAH results to calculate the toxic equivalency (TEQ) concentrations for carcinogenic PAHs (cPAH) in accordance with Washington Administrative Code (WAC) 173-340-708(e); 94 of the samples analyzed contained TEQ concentrations of cPAHs greater than the MTCA Method A unrestricted land use cleanup level of 100 $\mu\text{g}/\text{kg}$. Analytical results for PAHs are summarized in Table 2.

Chemical analytical results indicate PAH contamination exceeding the MTCA Method A cleanup level for unrestricted land use at the subject property is present from ground surface to approximately 10 feet bgs. The deepest PAH contamination was observed in the debris stockpile located on the southern portion of the subject property. PAH contamination in the shooting range area occurs to a depth of about 7 feet bgs in a narrow band in front of the shooting stations and clay target bunkers. Hart Crowser used this data and assessment location data to prepare an isopach map of PAH-contaminated soil by depth at the subject property. The map is provided in “PAHs In Soil”, Figure 5.

3.4.4 Contaminants of Concern

Based on the results of the field investigations, contaminants of concern (COC) at the subject property primarily include lead and PAHs (naphthalenes, BaP, and cPAHs); however arsenic concentrations detected in four locations exceeded cleanup levels and therefore arsenic has been retained as a COC. These COC are present at the subject property at variable locations and to a maximum depth of approximately 10 feet bgs.

Additionally, some lead-contaminated soil at the subject property exceeds the Dangerous Waste levels under the toxicity characteristic (maximum concentration of 5 mg/L). Material characterizing as Dangerous Waste is subject to the Land Disposal Restrictions in WAC 173-303-140 and must be treated prior to

disposal. However, material that no longer contains lead at leachable levels (i.e., has been stabilized to prevent leaching) also no longer exhibits the toxicity characteristic and therefore is not considered a Dangerous Waste. Until stabilized, these materials require more robust handling, storage, transportation, and record keeping requirements once excavated.

3.5 Conceptual Site Model

Hart Crowser prepared a conceptual site model (CSM) to identify and assess potential contaminant sources, fate and transport of chemical substances, media exposure pathways (i.e., surface water, surface soil, etc.) and potential receptors such as human, aquatic, and terrestrial life. The CSM is presented in the following sections.

3.5.1 Contaminant Release

Contaminants at the subject property primarily include lead and PAHs from lead shot and clay targets that originated from trap and skeet shooting activities conducted at the Gun Club between 1948 and 2021. Lead contamination generally exist in shallow surface soils north-northeast of the shooting stations between the ground surface and approximately 3 feet bgs; hazardous levels of lead are present between ground surface and 1 foot bgs in some locations (see Figure 3). Arsenic was present at concentrations greater than cleanup levels in four assessment locations in the shooting range area between ground surface and 1 foot bgs. The source of the arsenic is unknown, but arsenic is naturally occurring in soil. Analytical data indicates that PAH contamination in soil is present north-northeast of the shooting stations to a depth of about 7 feet bgs and around the Gun Club building and into the parking area between ground surface and 1 foot bgs (see Figure 5). While lead and PAH contamination is present in the debris stockpile located on the southern portion of the subject property from ground surface to about 10 feet bgs.

3.5.2 Fate and Transport

Analytical data of soil samples indicate that lead contamination is limited to the shooting range area and the debris stockpile; arsenic contamination in soil also was limited to four samples in the shooting range area. Similarly, PAH contamination is present in the shooting range and debris stockpile but also extends around the Gun Club Building and into the parking area to the west. Analytical data indicates COC at the subject property do not extent beyond the property boundaries.

Potential contaminant transport mechanisms of COC includes infiltration through soil during precipitation and snow melt events, erosion through stormwater runoff, wind, and/or anthropogenic means, and bioaccumulation. These potential contaminant transport mechanisms are described in more detail in the following sections.

3.5.2.1 Infiltration

The Gun Club was constructed in 1948 and shooting activities have commenced for approximately 73 years. During this time, lead has infiltrated into the shooting range soils to approximately 3 feet bgs; some of this migration also could have been caused by periodic lead reclamation activities that mixed soil *in situ*. Arsenic contamination was only detected in the top 12 inches of soil and analytical data indicates PAH contamination has migrated to approximately 7 feet bgs and is present to about 10 feet bgs in the

debris stockpile; however, the deeper presence of PAHs in the debris stockpile does not necessarily indicate an increase of PAH infiltration but rather represents an indication of the thickness of the stockpile against an existing slope. Based on this assessment data and the time period in which the Gun Club was in operation, it appears that the rate of COC migration into subsurface soils through infiltration is limited. It also is unlikely that COC could impact groundwater which reportedly is approximately 98 feet bgs based on the Gun Club well log.

3.5.2.2 Erosion-Stormwater

Stormwater runoff is a potential transport mechanism for contaminants to enter storm water systems and impact surface and/or groundwater. The subject property generally is flat except for the southern (along Sprague Avenue) and northern (along Appleway Avenue) boundaries which slope inward towards the property. The subject property is not paved, has few structures, and has porous soil that readily infiltrates surface water. Based on these conditions, it is unlikely that stormwater could transport COC off site. Additionally, no stormwater management features (i.e., catch basins, dry wells, etc.) are known that could act as a pathway for COC to surface water or groundwater.

3.5.2.3 Erosion-Wind

Prevailing wind at the subject property generally moves from the west-northwest toward the east-southeast and is a potential transport mechanism for contaminants at ground surface to be transferred offsite. Currently, on-site soil is held in place by vegetation, mainly by grasses and small shrubs. However, wind is a possible transport mechanism if on-site soils are disturbed, or vegetation is removed. Based on the PAH distribution wind was the most likely a transport mechanism during shooting activities when clay targets were fragmented in midair by lead shot.

3.5.2.4 Erosion-Anthropogenic Transport

Anthropogenic erosion is a transport mechanism for COC at the subject property and foot and vehicle traffic have the potential for mobilizing COC. Additionally, removing vegetation and/or disturbing surface soil likely will result in fugitive dust emissions. However, the subject property currently is fenced and, excluding the eastern portion of the parking area, which is contaminated with PAHs at the surface, the majority of the subject property is not subject to vehicle or foot traffic.

3.5.2.5 Bioaccumulation

Bioaccumulation is the gradual accumulation of substances, such as chemicals, in an organism. It is possible for plants and other organisms to bioaccumulate COC through uptake of nutrients (plants) and inhalation and/or ingestion of COC. During the assessment activities small animals and, occasionally, migratory birds, were observed in the shooting range. Typical Gun Club activities (i.e., shooting) likely were a deterrent for animals but now that shooting activities have ceased, the subject property could see an increase of animal residency until cleanup and/or redevelopment activities commence.

3.5.3 Potential Receptors

The potential receptors at the subject property include human (site workers, trespassers, etc.), terrestrial (grass and shrub vegetation), and ecological (birds, rodents, etc.). Likely exposures scenarios for each receptor include direct contact, inhalation, and/or ingestion with/of site soil. Currently, the subject

property is vegetated, and vegetation reduces the chances of exposure through inhalation of airborne dust. However, during cleanup operations fugitive dust will be a concern and dust suppression techniques should be used. Now that shooting activities have ceased and the property is vacant and mostly fenced, there is little chance of exposure to humans except through the trespasser scenario. It should be assumed the vacant property will be attractive to ecological receptors in the short-term.

3.6 Proposed Cleanup Levels

The subject property generally consists of undeveloped grass fields and currently is zoned “Light Industrial (LI)” by Spokane County. However, it is anticipated the land will undergo a zoning change to allow residential development. Therefore, the proposed cleanup levels (CULs) for contaminated soil at the subject property are MTCA Method A for unrestricted land use. The MTCA Method A cleanup levels for unrestricted land use for COC found at the subject property include:

- 20 mg/kg arsenic;
- 250 mg/kg lead;
- 0.1 mg/kg BaP;
- 0.1 mg/kg cPAH TEQ; and
- 5 mg/kg total naphthalenes.

3.7 Terrestrial Ecological Evaluation

Under MTCA, Ecology requires responsible parties to conduct a Terrestrial Ecological Evaluation (TEE) to assess the potential threats to terrestrial ecological receptors from contaminated sites. However, under certain criteria listed in WAC 173-340-7491 a site can be excluded from the TEE process if “soil contaminated with hazardous substances is, or will be, covered by buildings, paved roads, pavement, or other physical barriers that will prevent plants or wildlife from being exposed to the soil contamination” and “an institutional control” is recorded against the property. Because CVSD intends to remediate the site by fall of 2021 or spring of 2022 and cleanup will include either removing contaminated materials from the property or consolidating and capping contaminated materials in an on-site repository with a restrictive covenant thereby providing a physical barrier to plants and animals, the subject property is excluded from the TEE process.

4.0 FEASIBILITY STUDY

The purpose of this FS is to consider and evaluate cleanup action alternatives and provide a recommended cleanup action for the subject property. The evaluation considered CVSD’s goals for future use of the property either for additional educational facilities, surplus sale to fund the cleanup, and/or a combination of the two. The desired timeframe to complete the cleanup by fall of 2021 or spring of 2022 also was used to screen alternatives.

Hart Crowser considered several factors when evaluating potential cleanup options including: the physical and chemical properties of the contaminants, areas of the subject property impacted by COC, and technologies and remedial techniques capable of addressing the contaminated media. Applicable technologies/techniques were screened and those that did not meet CVSD's goals for future use of the property due to timeframes, complexity, and/or land use were eliminated. The remaining cleanup options were compared to identify the preferred alternative.

4.1 Contaminated Media Characteristics

Results of the RI indicate that COC are in solid form and within the soil matrix. Some contaminated media can be identified visually by the presence of lead shot pellets and/or clay target debris. Lead at leachable concentrations classified by the State of Washington as dangerous waste, lead-contaminated soil, arsenic-contaminated soil, and PAH-contaminated soil is identifiable by laboratory analytical results.

The aerial extent and depths of COC are shown on "Magnitude and Extent of Contamination", Figure 6. Hart Crowser used Figure 6 and analytical results to estimate the volumes of contaminated soil present at the subject property along with applicable waste designations (hazardous or non-hazardous); results of that analysis are summarized in Table 3 below.

Table 3 - Estimated Volumes of Contaminated Soil

Depth Interval (feet bgs)	Waste Designation	Volume (ft ³)	Volume (ft ³)	Volume (cu yd)
0 to 1	Hazardous Lead	152,000	152,000	5,630
	Non-hazardous Lead	168,700	1,649,900	61,110
	Non-hazardous Lead & PAH	908,800		
	Non-hazardous PAH	572,400		
1 to 2	Non-hazardous Lead	37,500	744,300	27,570
	Non-hazardous Lead & PAH	401,300		
	Non-hazardous PAH	305,500		
2 to 3	Non-hazardous Lead	43,600	414,600	15,356
	Non-hazardous Lead & PAH	32,800		
	Non-hazardous PAH	338,200		
3 to 4	Non-hazardous PAH	339,800	339,712	12,582
4 to 5		293,500	293,402	10,867
5 to 6		239,000	238,922	8,849
6 to 7		204,800	204,789	7,585
7 to 8		6,900	6,890	255
8 to 9		6,900	6,890	255
9 to 10		6,900	6,890	255
Subtotal Hazardous		152,000	152,000	5,630
Subtotal Non-hazardous		3,906,600	3,906,295	144,684
TOTALS		4,058,600	4,058,295	150,313

Notes:

bgs = below ground surface

cu yd = bank cubic yards

ft³ = bank cubic feet

Data from the RI indicates that subject property COC are not readily mobile. Lead contamination primarily is in the top 3 feet of soil, PAH contamination is present at similar depths across most of the site but is deeper (approximately 7 to 8 feet) in front of the shooting stations and directly behind the trap bunkers. Based on the amount of time allowed for infiltration to occur, and the limited amount of infiltration observed, impacts to groundwater are not likely. In more than 70 years of operations lead has migrated approximately 3 feet and PAH contamination has migrated to approximately 7 feet bgs in front of the shooting stations. With depth to groundwater beneath the property at approximately 98 feet bgs adverse impacts to groundwater from site COC are not reasonably likely to occur.

4.2 Considered Remedial Technologies & Techniques

Elevated metal and PAH concentrations in soil are the primary risk drivers for both human and ecological receptors. Therefore, remediation technologies and techniques considered in this FS are applicable to soil.

The candidate remedial technologies and techniques identified and screened to develop potential cleanup alternatives for further evaluation are described in the following sections.

4.2.1 Remedial Technologies

Soil Washing. This process uses physical and/or chemical techniques to separate contaminants from soil. Contaminated site soils would be excavated, screened to remove lead shot and coarse material, and contaminants would be physically separated from the screened material using wash water and reagents that target site COC. Cleaned soil would then be used to backfill remedial excavations. Because soil washing transfers contaminants to the washing fluid, the washing fluid must be treated and disposed of appropriately. Washing fluids can be classified as a hazardous waste, requiring pretreatment and disposal at a hazardous waste facility.

Phytoremediation. This process uses plants to immobilize and sequester contaminants in vegetation mass and root systems. Vegetation uptakes contaminants from soil and they are then stored and accumulate in the aboveground biomass until harvested and disposed. This alternative is not protective for terrestrial receptors that may ingest contaminated foliage. Implementation likely would require the introduction and maintenance of non-native species and the use of synthetic chemical chelates for the phytoextraction of lead bound to soil to increase the bioavailability and plant uptake. The area being treated would not be available for other site uses since it would essentially be farmed, and it would take multiple growing seasons to reach CULs. The treatment period is unknown but would require years, and harvested biomass could be classified as a hazardous waste requiring proper handling and disposal.

In or Ex Situ Solidification/Stabilization. This alternative would consist of mixing lead-contaminated soils with a binding agent (often Portland cement, cement kiln dust, fly ash, or phosphorous-based reagents) to fix leachable lead in the soil matrix either through solidification, increasing pH, or chemical stabilization by creating pyromorphites (i.e., lead phosphate minerals). Solidification/stabilization reduces metal exposure to potential receptors.

Thermal Treatment. Thermal treatment involves the *ex situ* or *in situ* elevation of the temperature of soil to levels that either volatilize organic contaminants, that are collected and treated, or directly combust the target contaminants. Thermal treatment does not destroy or volatilize non-volatile metals. A number of different *ex situ* system configurations and operating principles have been developed and are available in the marketplace (e.g., high temperature thermal desorption, incineration, etc.). Thermal treatment systems generally are effective for a broad range of organic compounds (like PAHs). Thermal treatment facilities are not available locally, therefore, treatment would require excavated soils to be transported out of state to either Oregon, Idaho, or Utah. Alternatively, a temporary on-site facility is technically feasible to consider but these systems require robust permitting with local agencies to operate because thermal destruction systems require monitoring and management of exhausted emissions which can contain hazardous constituents like dioxins, furans, and metals. Controlling emissions during *in situ* thermal treatment can be challenging.

4.2.2 Remedial Techniques

Excavation and Disposal. Excavation generally refers to the removal of soil in the absence of overlying water. Complete removal involves the excavation of materials with COC concentrations above the CULs. Partial removal involves the removal of shallow contaminated soils while leaving deeper contaminated soil in-place, followed by other remedial actions to prevent exposure or transport of the deeper contaminated soils (e.g., capping, land use controls). This process prevents human contact with soils through physical removal of soils and disposing of the soil either in an on-site repository or off site at an appropriate landfill. Hazardous materials (e.g., lead contaminated soil at the subject property) require treatment either prior to or following excavation or treatment at the disposal facility if offsite.

Disposal is the final component of a soil remediation process train that starts with removal and ends with placement (disposal) in a facility where potential environmental impacts are monitored, controlled, and limited. This process train also can include *in situ/ex situ* treatment prior to disposal. Disposal either can be within an on-site disposal facility specifically engineered for the contaminated materials or within an offsite commercial disposal facility.

On-site disposal consists of constructing an on-site repository for contaminated materials. The repository, which would be covered or revegetated, would allow for disposal of materials in a controlled environment, minimizing exposure to receptors and contact with stormwater. The primary limitation for this technology is land availability. Additionally, if an on-site repository is constructed, the repository would require long-term operation and maintenance (O&M) and additional land use controls. Offsite disposal consists of transporting contaminated materials off site to an appropriately designed landfill facility, either a landfill compliant with RCRA Subtitle C (for hazardous waste) or a landfill compliant with RCRA Subtitle D (for non-hazardous waste).

Capping. Engineered caps are designed to remove the direct-contact pathway to contaminated materials by covering the materials with a barrier. Caps can be constructed using earthen covers, low permeability layers, hard caps or other methods. Topsoil caps are used *in situ* to cover contaminated materials. The advantage of earthen capping is that contaminated soils remain in place, eliminating potential excavation, transport, and disposal problems. However, in-place caps need to address pathways for ecological receptors, consider surface water management to prevent infiltration, and likely would require precautions against erosion or other disturbances that could cause loss of capping material. Soil capping could be used effectively in combination with excavation to consolidate contaminated materials in a smaller footprint and achieve final grading conducive with stormwater management. Low-permeability caps may be used as final cover for soil disposal areas. These types of covers typically consist of a clay or high-density polyethylene (HDPE) low-permeability layer covered with topsoil and vegetation and are used to reduce or eliminate infiltration of water into contaminated soil and prevent contaminant migration from the materials. Similar to soil capping, hard caps (such as concrete and asphalt) can prevent human contact by creating an impermeable physical barrier.

Capping material (soil, sand, gravel, rock, etc.) may be purchased from offsite sources. However, the design process should consider the use of materials generated on site or available from nearby projects as an alternative to purchased materials.

4.2.3 Remedial Technologies/Techniques Screening

After considering the various remediation technologies and techniques listed in the previous section, Hart Crowser screened each alternative using CVSD's goals for future use of the property. Remedial alternatives that either did not greatly reduce the contaminated areas or could not be implemented and completed within CVSD's timeframe (fall of 2021/spring 2022) were dropped from consideration. Results of our screening process are described below.

Soil Washing. Soil washing is a feasible option to treat contaminated materials at the subject property. However, soil washing becomes more complicated when there are fines (silts and clays) in the soil matrix, which is true for the upper portion of site where the greatest area of contamination has been identified, and the process is time-consuming. According to the EPA, larger scale soil washing equipment can treat over 100 cubic yards per day (cu yd/day) (EPA 1996). However, based on the CVSD's schedule, about 2,500 cu yd/day would need to be treated to finish in the desired timeframe. This technology also requires storage, treatment, and management of contaminated water which often contains additives to increase removal efficiency; the presence of additives also can be challenging to treat wash water for disposal/re-use. Freezing conditions also would be a factor for this technology. Because of the challenges involved and unlikelihood that this technology could be implemented within the project timeframe, soil washing was dropped from consideration.

Phytoremediation. Phytoremediation can be an effective remediation technology for lead and PAHs. However, this alternative requires a large footprint and would take several growing seasons (years) to achieve CULs at the subject property. This technology also would increase habitat and attract ecological receptors during implementation. Therefore, phytoremediation was eliminated because of the timeframe required to meet CULs and the lack of protectiveness for ecological receptors during implementation.

In or Ex Situ Solidification/Stabilization. Solidification and stabilization are feasible remediation techniques for COC at the property; however, since there is empirical evidence that shows COC do not readily migrate into the subsurface beyond about 8 feet bgs, only stabilization of soil containing hazardous concentrations of lead would be required. In-situ solidification/stabilization would become an obstacle for re-development or use of the site and would not necessarily protect ecological receptors. Therefore, *in situ* alternatives were dropped from consideration, except where *in situ* treatment was paired with additional techniques like excavation and removal following treatment.

In situ and *ex situ* stabilization of lead-contaminated soil is feasible and required to address the toxicity characteristic for materials designating as hazardous by the Dangerous Waste regulations. Therefore, stabilization was carried forward as a remedial option.

Thermal Treatment. On site thermal treatment is a feasible treatment technology for site; however, this technology has similar disadvantages to soil washing with respect to schedule with the additional challenges of air permitting. Therefore, thermal treatment was dropped from consideration.

Excavation and Disposal. Regardless of the remedial technology selected, some amount of excavation will be required to meet the cleanup goals for the subject property. Therefore, excavation is retained as a

feasible remediation technique. Additionally, disposal, either on site or off site, will be required to address the contaminated materials. Therefore, disposal is a remedial option retained for the FS.

Capping. *In situ* capping does not meet the goals for property reuse; therefore, *in situ* capping was dropped from consideration. However, removal, followed by consolidation in an on-site repository, and capping the repository with an engineered cover system is a feasible remediation technique and was retained for the FS.

4.3 Cleanup Action Alternatives

The initial screening of potential clean-up technologies/techniques indicates that the following alternatives should move forward as feasible remedial options for the subject property:

- Excavation and Disposal
- Capping
- *In- or Ex Situ* Stabilization

The estimated areal extent of material that would be excavated and handled under each alternative is shown on Figure 6. Traditional excavation equipment (likely a combination of excavators, loaders, and blade dozers) would be used to remove the affected soils. Large cobbles and boulders would be segregated to the extent practicable (without using oversized or other specialized equipment) to access fine-grained material. Confirmation sampling would be performed at the completion of excavation activities to document CULs had been achieved for each alternative.

Hart Crowser evaluated these remedial alternatives in combination with one another using varying scenarios and evaluated each alternative for: protectiveness, permanence, long term effectiveness, short-term risk, implementability, consideration of public concern, restoration timeframe, and cost (collectively referred to herein as “performance criteria”). Detailed descriptions of each alternative and evaluations are provided in the following sections. Each alternative assumes that cleanup activities will begin after the Gun Club has vacated the property and the last lead reclamation event has been completed. This assumes that the majority of lead shot has been removed from the subject property and screened material from lead reclamation will be stockpiled on site. Prior to beginning cleanup activities, the stockpiled materials will be sampled to characterize the material as hazardous (requiring treatment) or non-hazardous (no treatment required).

4.3.1 Alternatives 1A & 1B — Removal

Alternatives 1A and 1B include the removal of material containing COC greater than CULs from the subject property and disposing of that material off site. These alternatives generally include:

- Alternative 1A – Excavation, Stabilization, and Offsite Disposal
 - Excavate material containing COC greater than CULs;
 - Stabilize lead in materials containing lead greater than 3,250 mg/kg; and
 - Transport and dispose of non-hazardous and stabilized material off site at Waste Management’s Graham Road Subtitle D landfill in Medical Lake, Washington (Graham Road).

Confirmation that stabilized materials are no longer hazardous also would be conducted under Alternative 1A.

- Alternative 1B – Excavation and Offsite Disposal
 - Excavate material containing COC greater than CULs;
 - Transport and dispose of material containing lead concentrations greater than 3,250 mg/kg as a Hazardous Waste at Waste Management’s ChemWaste Subtitle C landfill in Arlington, Oregon (ChemWaste); and
 - Transport and dispose of contaminated and material off site at Graham Road.

4.3.1.1 Alternative 1A – Excavation, Stabilization, and Offsite Disposal

Alternative 1A includes stabilizing material containing lead concentrations greater than 3,250 mg/kg. This material could be stabilized *in situ* or following excavation with a stabilization reagent. For this alternative, Hart Crowser assumed a phosphate-based amendment (various proprietary products are available) would be blended with the hazardous lead-contaminated soil. Typically, a treatability study is performed prior to the full-scale application to determine the correct mixture to achieve optimal results. After stabilization has been confirmed, the stabilized material could be disposed at Graham Road. The remaining contaminated material at the subject property also would be transported to Graham Road for disposal.

Protectiveness. This alternative would provide a high degree of protectiveness by removing hazardous and non-hazardous contaminated materials from the subject property.

Permanence. COC contaminated materials are permanently removed from the subject property under this alternative, reducing the likelihood of exposure to receptors.

Long-Term Effectiveness. This alternative results in the removal of hazardous and non-hazardous materials from the subject property. As a result, this alternative provides a high degree of effectiveness over the long-term.

Management of Short-Term Risk. There are potential short-term risks to workers conducting the excavation, stabilization, loading, and trucking activities but these risks can be minimized with proper dust mitigation and other construction-related techniques. A Health & Safety Plan (HASP) would be developed to address these risks, and the risks associated with working in an area where COC are known to be present at concentrations above CULs. Site access would be restricted to site workers and other authorized personnel only during the implementation of this alternative to minimize exposure to potential receptors. Other short-term risks associated with this option and other offsite disposal options include increased vehicle traffic and a potential for tracking COC onto roadways and into stormwater collection basins.

Implementability. Technologies employed by this alternative are common to the construction industry, and with controls in place to prevent worker exposure, can readily be implemented. Supplies, lodging, and other support services are available in the Spokane Valley.

Consideration of Public Concern. The public concerns for construction activities likely would be limited to the adjacent properties. Site activities would be conducted during normal business hours and mitigation

procedures would be implemented to minimize the generation and migration of dust from the site. The estimated volume of material removed from the site for off-site disposal would require up to 150 truckloads. However, the site's location adjacent to Interstate 90 provides easy access to Graham Road. However public concern due to increased traffic related to the transport and disposal of the removed material and the proximity to Ridgeline Highschool is a factor.

Restoration Time Frame. This alternative would not require long-term monitoring and would be considered complete at the end of construction activities. The reduction of COC at the site to CULs and site restoration would be completed within several months, depending on weather conditions and availability of materials; therefore, the time frame required to implement this alternative is relatively short.

Cost. The estimated total cost of this alternative is \$28,334,000. The work activity and associated unit quantities and costs used to develop this estimate are summarized in "Alternative 1A Cost Estimate", Table 4.

4.3.1.2 Alternative 1B – Excavation and Offsite Disposal

Alternative 1B is comparable to Alternative 1A except this alternative includes removal and transport of material containing more than 3,250 mg/kg of lead to ChemWaste rather than on-site stabilization. This results in slightly less short-term risk since there would be less on-site handling of hazardous materials, but more restrictive requirements for transportation, and increased costs for disposal. However, protectiveness, permanence, implementability, consideration of public concern, and restoration time frames would be comparable.

Cost. The estimated total cost of this alternative is \$29,078,000. The work activity and associated unit quantities and costs used to develop this estimate are summarized in "Alternative 1B Cost Estimate", Table 5.

4.3.2 Alternatives 2A Through 2D – On-Site Consolidation

Alternatives 2A through 2D consist of constructing an on-site repository, excavating contaminated materials, and consolidating the contaminated materials in the repository. These alternatives generally include:

- Alternative 2A – Consolidate, Stabilize, and Contain Contaminated Materials in an On-site, Subgrade Repository
 - Excavate material containing COC greater than CULs;
 - Stabilize lead in materials containing lead greater than 3,250 mg/kg;
 - Construct an on-site repository about 5 acres in size and up to 30 feet deep;
 - Backfill stabilized material and COC contaminated material in repository; and
 - Install an engineered cap consisting of an HDPE liner, drainage layer, growth media, and native grasses to cover the repository.

- Alternative 2B – Consolidate and Contain Non-Hazardous Materials in an On-site, Subgrade Repository with offsite disposal of hazardous materials
 - Excavate material containing COC greater than CULs;
 - Transport and dispose of material containing lead concentrations greater than 3,250 mg/kg as a hazardous waste at ChemWaste;
 - Construct an on-site repository about 5 acres in size and up to 30 feet deep;
 - Place COC contaminated material in repository; and
 - Install an engineered cap consisting of an HDPE liner, drainage layer, growth media, and native grasses to cover the repository.

- Alternative 2C – Consolidate, Stabilize, and Contain Contaminated Materials in an On-site, Above Grade Repository
 - Excavate material containing COC greater than CULs;
 - Stabilize lead in materials containing lead greater than 3,250 mg/kg;
 - Construct an on-site repository over contaminated materials on the southeast portion of the subject property about 10 acres in size;
 - Place stabilized material and COC contaminated material in repository; and
 - Install an engineered cap consisting of an HDPE liner, drainage layer, growth media, and native grasses to cover the repository.

- Alternative 2D – Consolidate and Contain Non-Hazardous Materials in an On-site, Above Grade Repository with Off-site Disposal of Hazardous Materials
 - Excavate material containing COC greater than CULs;
 - Transport and dispose of material containing lead concentrations greater than 3,250 mg/kg as a hazardous waste at ChemWaste;
 - Construct an on-site repository over contaminated materials on the southeast portion of the subject property about 10 acres in size;
 - Place COC contaminated material in repository; and
 - Install an engineered cap consisting of an HDPE liner, drainage layer, growth media, and native grasses to cover the repository.

Each of these alternatives require routine maintenance and monitoring of the repository to identify any potential breeches in the engineered cap that could expose the underlying contaminated materials to the environment. Maintenance activities would include visual inspection for erosion and disturbance from burrowing animals. Because these alternatives leave contaminated materials on the property, a restrictive covenant would be recorded against the property with Spokane County and a contaminated media management plan would be prepared to guide any activities that disturb the materials contained in the repository.

4.3.2.1 Alternative 2A — Consolidate, Stabilize, and Contain Contaminated Materials in an On-site, Subgrade Repository

Alternative 2A assumes that a repository would be excavated in the northern portion of the subject property adjacent to East Appleway Avenue. The repository would be excavated to about 30 feet below

grade, lined with a geotextile to delineate contaminated material from native materials. Stabilized and contaminated materials would be placed in the repository and compacted to minimize settling. The cap would consist of a 40-mil thick HDPE liner with welded seams, a composite drainage net (CDN), approximately 2 feet of cover soil, 6 inches of topsoil, and seeded with playfield turf, native dryland grasses, or a combination of both. Finished grade of the repository would be about 8 feet above existing with the engineered cap installed. The HDPE liner and CDN would be sloped to drain infiltrated water to edges of the repository and away from contaminated materials.

Protectiveness. This alternative provides a moderately high degree of protectiveness by reducing the footprint of contaminated materials and covering the materials with a barrier to prevent contact with potential receptors. The HDPE liner would alert future construction workers of contaminated soil in the repository; the liner also would serve as an indicator of excessive erosion. The restrictive covenant and the contaminated media management plans specifying notification and other management requirements also provide additional protectiveness.

Permanence. The containment of contaminated materials eliminates exposures to human and ecological receptors as long as the cap remains intact. Once implemented, institutional controls also reduce the potential of accidental releases of these materials should the repository be opened.

Effectiveness Over the Long Term. This alternative provides a high degree of effectiveness over the long-term but will require on-going inspections and maintenance to prevent future exposures as a result of potential breaches in the cap. Institutional controls, once implemented, will be effective in managing long term risks associated with the repository.

Management of Short-Term Risk. There are potential short-term risks to workers conducting the excavation, stabilization, loading, and trucking activities but these risks can be minimized with proper dust mitigation and other construction-related techniques. A Health & Safety Plan (HASP) would be developed to address these risks, and the risks associated with working in an area where COC are known to be present at concentrations above CULs. Site access would be restricted to site workers and other authorized personnel during the implementation of this alternative to minimize exposure to potential receptors.

Technical and Administrative Implementability. Technologies employed by this alternative are common to the construction industry, and with controls in place to prevent worker exposure, can be readily implemented.

Consideration of Public Concerns. The public concerns for construction activities likely would be limited to the adjacent properties. Site activities would be conducted during normal business hours and mitigation procedures would be implemented to minimize the generation and migration of dust from the site. No other public concerns are anticipated for this alternative.

Restoration Time Frame. This alternative is compatible with the planned property divestment and assumes site redevelopment would occur within five years. The majority of the subject property, minus the 5-acre repository, would be restored to unrestricted land use at the end of construction, which likely would take a few months. The 5-acre repository would be managed in perpetuity with ongoing

inspections, maintenance and institutional controls. As a result, the contaminated materials consolidated in the repository would not pose an ongoing threat to human health or the environment and thus, meet the expectations for a cleanup alternative under WAC 173-340-370.

Cost. The estimated total cost of this alternative is \$6,389,000. The work activity and associated unit quantities and costs used to develop this estimate are summarized in “Alternative 2A Cost Estimate”, Table 6. The cost estimate includes ongoing expenses for inspections but does not include the maintenance of landscaped areas covering the contaminated soil as these activities would be required to maintain the planned facilities, independent of the cleanup action.

4.3.2.2 Alternative 2B — Consolidate and Contain Non-Hazardous Materials in an On-site, Subgrade Repository with Offsite Disposal of Hazardous Materials

Alternative 2B is comparable to Alternative 2A except hazardous materials would be transported directly to ChemWaste for disposal rather than stabilized on site. This offers slightly better protectiveness since the materials consolidated within the repository would have lower concentrations of lead. Short-term risk is comparable to Alternative 2A because lower risk from less handling of hazardous materials on site is counterbalanced with more restrictive requirements and risk for transporting hazardous materials and the additional traffic leaving the site. Permanence, implementability, and restoration time frames would be comparable to Alternative 2A.

Cost. The estimated total cost of this alternative is \$7,312,000. The work activity and associated unit quantities and costs used to develop this estimate are summarized in “Alternative 2B Cost Estimate”, Table 7.

4.3.2.3 Alternative 2C – Consolidate, Stabilize, and Contain Contaminated Materials in an On-site, Above Grade Repository

This alternative is similar to Alternatives 2A and 2B except stabilized and contaminated materials would be placed on top of contaminated areas on the south side of the property adjacent to East Sprague Avenue and capped above current grades rather than in a subgrade repository. This repository would be constructed to elevations similar to East Sprague Avenue and would be approximately 10 acres in size.

Protectiveness. This alternative provides a moderately high degree of protectiveness by reducing the footprint of contaminated materials and covering the materials with a barrier to prevent contact with potential receptors. The HDPE liner would alert future construction workers of contaminated soil in the repository; the liner also would serve as an indicator of excessive erosion. The restrictive covenant and the contaminated media management plans specifying notification and other management requirements also provide additional protectiveness.

Permanence. The containment of contaminated materials eliminates exposures to human and ecological receptors as long as the cap remains intact. Once implemented, institutional controls also reduce the potential of accidental releases of these materials should the repository be opened.

Effectiveness Over the Long Term. This alternative provides a high degree of effectiveness over the long-term but will require on-going inspections and maintenance to prevent future exposures as a result of

potential breaches in the cap. Institutional controls, once implemented, would be effective in managing long term risks associated with the repository.

Management of Short-Term Risk. There are potential short-term risks to workers conducting the excavation, stabilization, loading, and trucking activities but these risks can be minimized with proper dust mitigation and other construction-related techniques. Also, because less material is being excavated, short-term risk to workers is slightly less than Alternatives 2A and 2B. A Health & Safety Plan (HASP) would be developed to address these risks, and the risks associated with working in an area where COC are known to be present at concentrations above CULs. Site access would be restricted to site workers and other authorized personnel during the implementation of this alternative to minimize exposure to potential receptors.

Technical and Administrative Implementability. Technologies employed by this alternative are common to the construction industry, and with controls in place to prevent worker exposure, can be readily implemented.

Consideration of Public Concerns. The public concerns for construction activities likely would be limited to the adjacent properties. Site activities would be conducted during normal business hours and mitigation procedures would be implemented to minimize the generation and migration of dust from the site. No other public concerns are anticipated for this alternative.

Restoration Time Frame. This alternative is compatible with the planned property divestment and assumes site redevelopment would occur within five years. The majority of the subject property, minus the 10-acre repository, would be restored to unrestricted land use at the end of construction, which like would take a few months. This alternative, however, would reduce the surplus property available to sell by 5 acres compared to Alternatives 2A and 2B. The 10-acre repository would be managed in perpetuity with ongoing inspections and maintenance and institutional controls. As a result, the contaminated materials consolidated in the repository would not pose an ongoing threat to human health or the environment and thus, meet the expectations for a cleanup alternative under WAC 173-340-370.

Cost. The estimated total cost of this alternative is \$4,964,000. The work activity and associated unit quantities and costs used to develop this estimate are summarized in “Alternative 2C Cost Estimate”, Table 8. The cost estimate includes ongoing expenses for inspections.

4.3.2.4 Alternative 2D – Consolidate and Contain Non-Hazardous Materials in an On- Site, Above Grade Repository with Offsite Disposal of Hazardous Materials

Alternative 2D is comparable to Alternative 2C except that hazardous materials would be transported directly to ChemWaste for disposal rather than stabilized on site. This results in slightly less short-term risk for on-site workers since there would be less on-site handling of hazardous materials, but more risk and restrictive requirements for transportation and increased costs for disposal. This alternative offers slightly better protectiveness since the materials consolidated within the repository would have lower concentrations of lead. However, permanence, implementability, consideration of public concern, and restoration time frames would be comparable.

Cost. The estimated total cost of this alternative is \$6,705,000. The work activity and associated unit quantities and costs used to develop this estimate are summarized in “Alternative 2D Cost Estimate”, Table 9. The cost estimate includes ongoing expenses for inspections.

5.0 COMPARATIVE EVALUATION OF ALTERNATIVES

Hart Crowser evaluated the remedial alternatives against each other by ranking each performance criteria between 1 and 5 and adding the scores together; the alternatives with the highest scores would be the preferred alternatives. We then conducted a disproportionate cost analysis by ranking the alternatives between 1 and 5, with 5 being the least expensive and 1 being the most expensive and compared costs of each alternative against the benefits. This comparative analysis of the alternatives is summarized in “Alternative Ranking and Disproportionate Cost Analysis”, Table 10.

Protectiveness. Alternatives 1A and 1B remove site contaminants above CULs from the subject property and provide the greatest degree of protectiveness. Some contaminated soils above CULs from the subject property would remain on the site under Alternatives 2A through 2D; however, these alternatives would prevent exposure to site receptors by isolating and containing the contaminants in a smaller footprint than current conditions.

Permanence. Alternatives 1A and 1B provides the highest degrees of permanence by physically removing soil exceeding CULs from the subject property. Alternatives 2A through 2D do not permanently reduce the volume of contaminants; however, engineering and institutional controls would be effective in preventing releases and subsequent exposure.

Effectiveness over the Long Term. The six alternatives would be effective over the long term, with Alternatives 1A and 1B providing the highest degree of effectiveness as residual risk of COC contamination at the subject property would be minimized through removal. Alternatives 2A and 2B would be slightly more effective in managing residual risk than 2C and 2D because the repository design of Alternatives 2A and 2B uses a smaller footprint and smaller side slopes compared to Alternatives 2C and 2D.

Management of Short-Term Risk. Human health and environmental risks associated with construction and implementation activities are similar for each of the alternatives and, as such, will include similar risk management procedures and protocols. Increased traffic and hauling of potentially hazardous materials within close proximity to the high school and residential neighborhoods increases the short-term risk for Alternatives 1B, 2B, and 2D.

Technical and Administrative Implementability. The technologies required for each alternative are implementable. Components of the alternatives can be implemented using local or regionally-based labor and equipment. For alternatives using stabilization, local or regional sources for soil stabilization products and applicators are available. Alternatives 1A, 2A, and 2C require more stringent tracking of excavation, stabilization, and disposal of hazardous materials but Alternatives 1B, 2B, and 2D have similar requirements for transporting and offsite disposal of hazardous materials. Alternatives 2A through 2D would require institutional controls, such as a restrictive covenant but this is an easily implemented administrative procedure. Alternatives 2C and 2D are more complicated to implement than

Alternatives 2A and 2B because the size of the above grade repository under these alternatives is twice the size (10 acres instead of 5 acres).

Consideration of Public Concerns. The potential public concerns for the six alternatives likely would be similar because of the short-term risks associated with managing and transporting large volumes of material on site and/or off site. Transportation of hazardous materials through the neighborhood also could be a public concern for Alternatives 1B, 2B, and 2D. Therefore, Alternatives 1A and 1B, requiring the highest traffic counts, rank lower along with Alternatives 2B and 2D because they contain a component of offsite disposal of hazardous materials.

Reasonable Restoration Time Frame. Alternative 1B requires the least time required to reduce COC at the site to levels below CULs. This alternative would not require on-site stabilization of hazardous materials, long-term monitoring, or administrative controls actions. Alternative 1A is slightly less desirable due to the time and effort required to stabilize and confirm hazardous materials are non-hazardous prior to offsite disposal. Alternatives with on-site repositories score lower due to the time required to construct the repository and ongoing engineering and institutional controls to meet the expectations for a cleanup alternative under WAC 173-340-370.

Cost. Hart Crowser used the cost estimates prepared to rank each alternative and to conduct a disproportionate cost analysis in accordance with WAC 173-340-360(3)(e); the rankings are provided in Table 10. The estimated costs ranged from \$4,964,000 for Alternative 2C to \$29,078,000 for Alternative 1B. MTCA states: "Costs are disproportionate to benefits if the incremental costs of the alternative over that of a lower cost alternative exceed the incremental degree of benefits achieved by the alternative over that of the other lower cost alternative." This analysis takes into consideration the performance criteria discussed in the previous sections to evaluate the incremental benefits for each alternative. The comparison of performance criteria indicates that Alternatives 2A through 2B provide similar performance to Alternatives 1A and 1B but for an order of magnitude less cost. Alternative 2C ranked the highest, having the lowest cost, but this alternative also has the largest footprint of the onsite repository options and therefore reduces to available land to divest to offset cleanup costs.

6.0 PREFERRED ALTERNATIVE

Performance criteria scores ranged between 24 for Alternative 2D and 29 for Alternative 1B. With the cost rankings added to the scores, the total scores for the alternatives ranged between 28 for Alternative 2D and 32 for Alternative 2A. Based on the combined performance criteria ranking and the disproportionate cost analysis, Alternative 2A – Consolidate, Stabilize, and Contain Contaminated Materials in an On-site, Subgrade Repository, is the preferred alternative. This alternative provides comparable protectiveness, permanence, and long-term effectiveness to offsite disposal alternatives but a reduction in short-term risk and an order of magnitude less cost. This alternative also has a smaller footprint than Alternatives 2C and 2D which leaves more surplus land available to divest and offset cleanup costs.

7.0 LIMITATIONS

Work for this project was performed, and this report prepared, in accordance with generally accepted professional practices for the nature and conditions of the work completed in the same or similar localities, at the time the work was performed. This report is intended for the exclusive use of CVSD for specific application to the referenced property. This report is not meant to represent a legal opinion. No other warranty, express or implied, is made.

8.0 REFERENCES

EPA Technology Innovation Office. A Citizen's Guide to Soil Washing. April 1996

Hart Crowser 2018. Phase I Environmental Site Assessment; North Henry Road and East Sprague Avenue Green Acres, Washington. August 28, 2018.

Washington State Department 2020. Remedial Investigation (RI) Checklist. Revised June 2020.

Table 1 - Summary of Chemical Analytical Results-Metals in Soil
Remedial Investigation/Feasibility Study
 Spokane Gun Club
 Spokane Valley, Washington

Sample Name Sample Number	Sample Depth/Depth Range (inches bgs)	Date Sampled	Arsenic (mg/kg)	Barium (mg/kg)	Cadmium (mg/kg)	Chromium (mg/kg)	Lead (mg/kg)	TCLP Lead (mg/L)	Mercury (mg/kg)	Selenium (mg/kg)	Silver (mg/kg)
Test Pit Samples											
TP-1-6	6	8/2/18	--	--	--	--	25	--	--	--	--
TP-2-6	6	8/2/18	--	--	--	--	27	--	--	--	--
TP-3-6	6	9/25/18	--	--	--	--	26	--	--	--	--
TP-4-6	6	8/2/18	--	--	--	--	23	--	--	--	--
TP-5-6	6	8/2/18	--	--	--	--	26	--	--	--	--
TP-6-6	6	8/2/18	--	--	--	--	41	--	--	--	--
TP-7-6	6	8/2/18	--	--	--	--	44	--	--	--	--
TP-8-6	6	8/2/18	--	--	--	--	73	--	--	--	--
TP-9-6	6	8/2/18	--	--	--	--	75	--	--	--	--
TP-10-6	6	8/2/18	--	--	--	--	140	--	--	--	--
TP-11-6	6	8/2/18	--	--	--	--	72	--	--	--	--
TP-12-6	6	8/2/18	13	190	1.4 U	13	560	--	0.041 U	6.9 U	1.7 U
TP-12-12	12	8/2/18	--	--	--	--	13	--	--	--	--
TP-13-6	6	8/2/18	--	--	--	--	110	--	--	--	--
TP-14-6	6	8/2/18	--	--	--	--	200	--	--	--	--
TP-15-6	6	8/2/18	7.8	140	1.8 U	14	100	--	0.041 U	9 U	2.3 U
TP-16-6	6	8/2/18	5.9	170	1.4 U	11	41	--	0.04 U	7.1 U	1.8 U
TP-17-6	6	8/2/18	11	230	1.5 U	14	470	--	0.046 U	7.6 U	1.9 U
TP-17-12	12	8/2/18	--	--	--	--	200	--	--	--	--
TP-18-6	6	8/2/18	9.4	160	1.6 U	11	620	--	0.039 U	7.9 U	2 U
TP-18-12	12	8/2/18	--	--	--	--	36	--	--	--	--
TP-19-6	6	8/2/18	21 J	190	1.5 UJ	14 J	2,100	--	0.044	7.4 UJ	1.8 UJ
TP-19-12	12	8/2/18	--	--	--	--	430	--	--	--	--
TP-19-18	18	9/25/18	8.6	--	--	--	150	--	--	--	--
TP-19-24	24	9/25/18	--	--	--	--	270	--	--	--	--
TP-20-6	6	8/2/18	9.9	160	1.7 U	13	110	--	0.042 U	8.5 U	2.1 U
TP-21-6	6	8/2/18	--	--	--	--	27	--	--	--	--
TP-22-6	6	8/2/18	--	--	--	--	33	--	--	--	--
TP-23-6	6	8/2/18	--	--	--	--	37	--	--	--	--
TP-24-6	6	9/25/18	--	--	--	--	22	--	--	--	--
TP-25-6	6	9/25/18	--	--	--	--	110	--	--	--	--
TP-26-6	6	9/25/18	--	--	--	--	74	--	--	--	--
TP-27-6	6	9/25/18	--	--	--	--	170	--	--	--	--
TP-28-6	6	9/25/18	7.1	--	--	--	33	--	--	--	--
TP-29-6	6	9/25/18	6.8	--	--	--	81	--	--	--	--
TP-30-6	6	9/25/18	13	--	--	--	770	--	--	--	--
TP-30-12	12	9/25/18	--	--	--	--	25	--	--	--	--
TP-31-6	6	9/25/18	8	--	--	--	270	--	--	--	--
TP-31-12	12	9/25/18	--	--	--	--	14	--	--	--	--
TP-32-6	6	9/25/18	11	--	--	--	650	--	--	--	--

Table 1 - Summary of Chemical Analytical Results-Metals in Soil
Remedial Investigation/Feasibility Study
 Spokane Gun Club
 Spokane Valley, Washington

Sample Name Sample Number	Sample Depth/Depth Range (inches bgs)	Date Sampled	Arsenic (mg/kg)	Barium (mg/kg)	Cadmium (mg/kg)	Chromium (mg/kg)	Lead (mg/kg)	TCLP Lead (mg/L)	Mercury (mg/kg)	Selenium (mg/kg)	Silver (mg/kg)
Test Pit Samples											
TP-32-12	12	9/25/18	--	--	--	--	200	--	--	--	--
TP-33-6	6	9/25/18	10	--	--	--	400	--	--	--	--
TP-33-12	12	9/25/18	--	--	--	--	21	--	--	--	--
TP-34-6	6	9/25/18	7.4	--	--	--	81	--	--	--	--
TP-35-6	6	9/25/18	22	--	--	--	1,700	--	--	--	--
TP-35-12	12	9/25/18	--	--	--	--	950	--	--	--	--
TP-36-6	6	9/25/18	6	--	--	--	28	--	--	--	--
TP-37-6	6	9/25/18	21	--	--	--	1,500	--	--	--	--
TP-37-12	12	9/25/18	--	--	--	--	450	--	--	--	--
TP-38-6	6	9/25/18	7.8	--	--	--	27	--	--	--	--
TP-39-6	6	9/25/18	19	190	0.86 U	14	1,700	--	0.07	4.3 U	1.1 U
TP-39-12	12	9/25/18	--	--	--	--	1,600	--	--	--	--
TP-39(36)	36	4/25/19	--	--	--	--	19	--	--	--	--
TP-40-6	6	9/25/18	7.7	--	--	--	13	--	--	--	--
TP-41-6	6	9/25/18	10	--	--	--	700	--	--	--	--
TP-41(24-36)	24-36	4/25/19	--	--	--	--	28	--	--	--	--
TP-42-6	6	9/25/18	7.3	--	--	--	21	--	--	--	--
TP-43-6	6	9/25/18	7.7	--	--	--	45	--	--	--	--
TP-44-6	6	11/8/18	--	--	--	--	20	--	--	--	--
TP-45-6	6	11/8/18	--	--	--	--	100	--	--	--	--
TP-46-6	6	11/8/18	--	--	--	--	2,600	--	--	--	--
TP-46-12	12	11/8/18	--	--	--	--	1,600	--	--	--	--
TP-47-6	6	11/8/18	--	--	--	--	230	--	--	--	--
TP-48-6	6	11/8/18	--	--	--	--	330	--	--	--	--
TP-48-12	12	11/8/18	--	--	--	--	14	--	--	--	--
TP-49-6	6	11/8/18	--	--	--	--	17	--	--	--	--
TP-50-6	6	11/8/18	--	--	--	--	11,000	--	--	--	--
TP-50-12	12	11/8/18	--	--	--	--	1,000	--	--	--	--
TP-51-6	6	11/8/18	--	--	--	--	33	--	--	--	--
TP-52-6	6	11/8/18	--	--	--	--	30,000	--	--	--	--
TP-52-12	12	11/8/18	--	--	--	--	150	--	--	--	--
TP-53-6	6	11/8/18	--	--	--	--	380	--	--	--	--
TP-53-12	12	11/8/18	--	--	--	--	570	--	--	--	--
TP-53(24-36)	24-36	4/25/19	--	--	--	--	13	--	--	--	--
TP-54-6	6	11/8/18	--	--	--	--	220	--	--	--	--
TP-55-6	6	11/8/18	--	--	--	--	18	--	--	--	--
TP-56-6	6	11/8/18	--	--	--	--	420	--	--	--	--
TP-56-12	12	11/8/18	--	--	--	--	730	--	--	--	--
TP-56(24-36)	24-36	4/25/19	--	--	--	--	190	--	--	--	--
TP-57-6	6	11/8/18	--	--	--	--	40	--	--	--	--

Table 1 - Summary of Chemical Analytical Results-Metals in Soil
Remedial Investigation/Feasibility Study
 Spokane Gun Club
 Spokane Valley, Washington

Sample Name Sample Number	Sample Depth/Depth Range (inches bgs)	Date Sampled	Arsenic (mg/kg)	Barium (mg/kg)	Cadmium (mg/kg)	Chromium (mg/kg)	Lead (mg/kg)	TCLP Lead (mg/L)	Mercury (mg/kg)	Selenium (mg/kg)	Silver (mg/kg)
Test Pit Samples											
TP-58-6	6	11/8/18	--	--	--	--	17	--	--	--	--
TP-59-6	6	11/8/18	--	--	--	--	13	--	--	--	--
TP-60-6	6	11/8/18	--	--	--	--	330	--	--	--	--
TP-60-12		11/8/18	--	--	--	--	19	--	--	--	--
TP-61-6	6	11/8/18	--	--	--	--	9.8	--	--	--	--
TP-62-6	6	11/8/18	--	--	--	--	25	--	--	--	--
TP-63-6	6	11/8/18	--	--	--	--	12	--	--	--	--
TP-66(6)	6	2/12/19	--	--	--	--	27	J	--	--	--
TP-67(6)	6	2/12/19	--	--	--	--	20	--	--	--	--
TP-68(6)	6	2/12/19	--	--	--	--	31	--	--	--	--
TP-69 (6)	6	5/20/19	--	--	--	--	50,000	--	--	--	--
TP-69 (12)	12	5/20/19	--	--	--	--	47	--	--	--	--
TP-70 (6)	6	5/20/19	--	--	--	--	250	--	--	--	--
TP-71 (6)	6	5/20/19	--	--	--	--	1,200	--	--	--	--
TP-71 (12)	12	5/20/19	--	--	--	--	80	--	--	--	--
TP-72 (6)	6	5/20/19	--	--	--	--	150	--	--	--	--
TP-73 (0-1')	0-12	12/21/20	--	--	--	--	12	--	--	--	--
TP-74 (0-1')	0-12	12/21/20	--	--	--	--	15	--	--	--	--
TP-75 (0-1')	0-12	12/21/20	--	--	--	--	740	--	--	--	--
TP-75(1-2)	12-24	12/21/20	--	--	--	--	14	--	--	--	--
TP-76 (0-1')	0-12	12/21/20	--	--	--	--	50	--	--	--	--
TP-77 (0-1')	0-12	12/21/20	--	--	--	--	48	--	--	--	--
TP-78 (0-1')	0-12	12/21/20	--	--	--	--	74	--	--	--	--
TP-79 (0-1')	0-12	12/21/20	--	--	--	--	57	--	--	--	--
TP-80 (0-1')	0-12	12/22/20	--	--	--	--	95	--	--	--	--
TP-81 (0-1')	0-12	12/21/20	--	--	--	--	120	--	--	--	--
TP-82 (0-1')	0-12	12/22/20	--	--	--	--	62	--	--	--	--
TP-83 (0-1')	0-12	12/22/20	--	--	--	--	18	--	--	--	--
TP-84 (0-1')	0-12	12/22/20	--	--	--	--	52	--	--	--	--
TP-85 (0-1')	0-12	12/22/20	--	--	--	--	19	--	--	--	--
TP-86(0-1)	0-12	1/4/21	--	--	--	--	11	--	--	--	--
Soil Boring Samples											
B-1(0-6)	0-12	4/25/19	--	--	--	--	1,500	--	--	--	--
B-1(6-12)	6-12	4/25/19	--	--	--	--	11	--	--	--	--
B-3(0-6)	0-12	4/25/19	--	--	--	--	22	J	--	--	--
B-4(0-6)	0-12	4/25/19	--	--	--	--	1,100	--	--	--	--
B-4(6-12)	6-12	4/25/19	--	--	--	--	8.7	--	--	--	--
B-5(0-6)	0-12	4/25/19	--	--	--	--	15	--	--	--	--
B-6(0-6)	0-12	4/25/19	--	--	--	--	1,300	--	--	--	--
B-6(6-12)	6-12	4/25/19	--	--	--	--	7.1	--	--	--	--

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Remedial Investigation/Feasibility Study
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 Spokane Valley, Washington

Sample Name Sample Number	Sample Depth/Depth Range (inches bgs)	Date Sampled	Arsenic (mg/kg)	Barium (mg/kg)	Cadmium (mg/kg)	Chromium (mg/kg)	Lead (mg/kg)	TCLP Lead (mg/L)	Mercury (mg/kg)	Selenium (mg/kg)	Silver (mg/kg)
Test Pit Samples											
B-7(0-6)	0-12	4/25/19	--	--	--	--	620	--	--	--	--
B-7(6-12)	6-12	4/25/19	--	--	--	--	10	--	--	--	--
B-8(0-6)	0-12	4/25/19	--	--	--	--	480	--	--	--	--
B-8(6-12)	6-12	4/25/19	--	--	--	--	8.5	--	--	--	--
B-9(36)	36	4/25/19	--	--	--	--	9.1	--	--	--	--
B-10(36)	36	4/25/19	--	--	--	--	15	--	--	--	--
B-11(36)	36	4/25/19	--	--	--	--	11	--	--	--	--
B-12(96)	96	4/25/19	--	--	--	--	72	--	--	--	--
B-13(42)	42	4/25/19	--	--	--	--	9	--	--	--	--
B-14(0-6)	0-12	4/25/19	--	--	--	--	480	--	--	--	--
B-14(36)	36	4/25/19	--	--	--	--	11	--	--	--	--
B-15(0-6)	0-12	4/25/19	--	--	--	--	24	--	--	--	--
B-19(0-6)	0-12	4/25/19	--	--	--	--	130	--	--	--	--
SB-1(1-2)	12-24	10/6/20	--	--	--	--	110	--	--	--	--
SB-1(3-4)	36-48	10/6/20	8.2	--	--	--	--	--	--	--	--
SB-2(1-2)	12-24	10/6/20	--	--	--	--	280	0.21	--	--	--
SB-2(2-3)	24-36	10/6/20	--	--	--	--	18	--	--	--	--
SB-3(0-1)	0-12	10/6/20	--	--	--	--	13,000	27	--	--	--
SB-3(2-3)	24-36	10/6/20	--	--	--	--	970	--	--	--	--
SB-3(3'-4')	36-48	10/6/20	--	--	--	--	21	--	--	--	--
SB-3(4-5)	48-60	10/6/20	13	--	--	--	--	--	--	--	--
SB-4(1-2)	12-24	10/6/20	--	--	--	--	210	--	--	--	--
SB-5(1-2)	12-24	10/6/20	10	--	--	--	--	--	--	--	--
SB-5(2-3)	24-36	10/5/20	--	--	--	--	30	--	--	--	--

**Table 1 - Summary of Chemical Analytical Results-Metals in Soil
Remedial Investigation/Feasibility Study**

Spokane Gun Club
Spokane Valley, Washington

Sample Name Sample Number	Sample Depth/Depth Range (inches bgs)	Date Sampled	Arsenic (mg/kg)	Barium (mg/kg)	Cadmium (mg/kg)	Chromium (mg/kg)	Lead (mg/kg)	TCLP Lead (mg/L)	Mercury (mg/kg)	Selenium (mg/kg)	Silver (mg/kg)
Test Pit Samples											
SB-6(0-1)	0-12	10/6/20	84	--	--	--	--	--	--	--	--
SB-6(1-2)	12-24	10/6/20	--	--	--	--	2,300	1.9	--	--	--
SB-6(2-3)	24-36	10/6/20	--	--	--	--	25	--	--	--	--
SB-6(3-4)	36-48	10/6/20	9.8	--	--	--	--	--	--	--	--
SB-7(0-1)	0-12	10/6/20	15	--	--	--	--	--	--	--	--
SB-7(1-2)	12-24	10/6/20	--	--	--	--	14	--	--	--	--
SB-8(2-3)	24-36	10/5/20	--	--	--	--	19	--	--	--	--
SB-9(1-2)	12-24	10/5/20	--	--	--	--	510	0.39	--	--	--
SB-9(2-3)	24-36	10/5/20	--	--	--	--	470	0.46	--	--	--
SB-9(3-4)	36-48	10/5/20	--	--	--	--	48	--	--	--	--
SB-10(0-1)	0-12	10/6/20	--	--	--	--	82	0.12	--	--	--
SB-10(5-6)	60-72	10/6/20	--	--	--	--	30	--	--	--	--
SB-11(0-1)	0-12	10/6/20	--	--	--	--	7,700	30	--	--	--
SB-11(2-3)	24-36	10/6/20	--	--	--	--	100	--	--	--	--
SB-12(0-1)	0-12	10/6/20	7.7	--	--	--	--	--	--	--	--
SB-12(1-2)	12-24	10/5/20	--	--	--	--	760	0.46	--	--	--
SB-12(2-3)	24-36	10/5/20	--	--	--	--	570	0.21	--	--	--
SB-12(3-4)	36-48	10/5/20	--	--	--	--	26	--	--	--	--
SB-13(1-2)	12-24	10/5/20	--	--	--	--	13	--	--	--	--
SB-14(1-2)	12-24	10/6/20	--	--	--	--	140	--	--	--	--
SB-15(0-1)	0-12	10/6/20	--	--	--	--	13,000	17	--	--	--
SB-15(2-3)	24-36	10/6/20	--	--	--	--	18	--	--	--	--
SB-16(1-2)	12-24	10/5/20	--	--	--	--	16	--	--	--	--
SB-17(2-3)	24-36	10/5/20	--	--	--	--	18	--	--	--	--
SB-18(5-6)	60-72	10/6/20	--	--	--	--	17	--	--	--	--
Confirmation Samples											
TP-12EX-N	8	11/12/18	--	--	--	--	29	--	--	--	--
TP-12EX-S	8	11/12/18	--	--	--	--	27	--	--	--	--
MTCA Method A Cleanup Level ²			20	NE	2	19/2000	250	NE	2	NE	NE
Maximum Concentration of Contaminants for the Toxicity Characteristic								5			

Notes:

¹Chemical analyses conducted by TestAmerica of Spokane, Washington. Total Metals by EPA Method 6010C/6010D (As, Ba, Cd, Cr, Pb, Se, Ag) and EPA 7471B (Hg).

²MTCA = Washington State, Model Toxics Control Act, Method A Soil Cleanup Levels.

mg/kg = milligrams per kilogram; mg/L = milligrams per liter; NE = Not Established; -- = not tested; TCLP = Toxicity Characteristic Leaching Procedure.

BOLD indicates detected concentration is above regulatory limit.

U = analyte not detected at a concentration greater than method reporting limits.

J = estimated value.

Table 2- Summary of Chemical Analytical Results-PAHs in Soil
Remedial Investigation/Feasibility Study
 Spokane Gun Club
 Spokane Valley, Washington

Sample Name	Sample Depth/Depth Range (inches bgs)	Date Sampled	PAHs (ug/Kg)																				Toxic Equivalency (TEQ) ²
			Naphthalenes					Test Pits										Carcinogenic PAH					
			1-Methylnaphthalene	2-Methylnaphthalene	Naphthalene	Total Naphthalenes	Acenaphthene	Acenaphthylene	Anthracene	Benzo[ghi]perylene	Fluoranthene	Fluorene	Phenanthrene	Pyrene	Benzo[a]anthracene	Benzo[a]pyrene	Benzo[b]fluoranthene	Benzo[k]fluoranthene	Chrysene	Dibenzo[a,h]anthracene	Indeno[1,2,3-cd]pyrene		
TP-6-6	6	8/2/18	ND	ND	ND		ND	ND	ND	16	17	ND	ND	18	13	19	21	ND	19	ND	12	24	
TP-12-6	6	8/2/18	ND	ND	ND		ND	ND	ND	31	32	ND	14	39	26	38	41	19	37	ND	24	49	
TP-14-6	6	8/2/18	ND	ND	ND		ND	ND	ND	24	24	ND	10	29	19	28	31	13	28	ND	18	36	
TP-15-6	6	8/2/18	ND	ND	ND		ND	ND	ND	11	12	ND	ND	12	ND	14	17	ND	12	ND	ND	16	
TP-16-6	6	8/2/18	ND	ND	ND		ND	ND	ND	24	25	ND	ND	29	20	29	36	14	28	ND	19	38	
TP-17-6	6	8/2/18	ND	ND	ND		58	ND	76	910	970	17	340	1,200	780	1,200	1,300	450	1,100	230	740	1,561	
TP-17-12	12	8/2/18	ND	ND	ND		ND	ND	ND	44	51	ND	18	61	42	62	71	28	56	13	38	82	
TP-18-6	6	8/2/18	ND	ND	ND		290	ND	370	3,300	3,900	ND	1,600	4,700	3,100	4,600	5,200	2,000	4,200	880	2,800	6,040	
TP-18-12	12	8/2/18	ND	ND	ND		31	ND	43	470	520	ND	180	580	400	630	690	260	530	130	370	820	
TP-18-18	18	9/25/18	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	10	ND	10	13	ND	ND	ND	ND	11	
TP-19-6	6	8/2/18	ND	ND	ND		550	ND	670	5,100	6,300	170	2,700	7,800	5,100	7,000	7,600	3,300	6,500	1,300	4,300	9,225	
TP-19-12	12	8/2/18	18	23	26	67	160	ND	220	1,600	2,000	54	850	2,400	1,700	2,300	2,600	1,100	2,100	450	1,400	3,046	
TP-19-18	18	9/25/18	ND	ND	ND		74	ND	92	790	1,100	ND	340	1,200	860	1,300	1,400	570	1,100	220	690	1,685	
TP-19-24	24	9/25/18	ND	ND	ND		56	ND	90	620	920	17	330	1,000	660	1,000	1,200	470	840	160	520	1,309	
TP-19(36-48)	36-48	4/25/19	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
TP-20-6	6	8/2/18	ND	ND	ND		12	ND	16	150	180	ND	68	200	130	210	220	93	180	41	120	272	
TP-20-12	12	9/25/18	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
TP-21-6	6	8/2/18	ND	ND	ND		ND	ND	ND	28	32	ND	16	46	26	36	37	16	36	ND	22	46	
TP-28-6	6	9/25/18	ND	ND	ND		ND	ND	ND	19	25	ND	ND	28	18	26	32	11	26	ND	15	34	
TP-29-6	6	9/25/18	ND	ND	ND		ND	ND	11	100	110	ND	41	140	96	140	170	61	130	25	83	185	
TP-29-12	12	9/25/18	ND	ND	ND		ND	ND	ND	21	26	ND	ND	30	19	30	35	14	27	ND	17	39	
TP-30-6	6	9/25/18	ND	ND	ND		280	ND	350 J	3,000 J	3,600 J	78	1,500 J	4,300 J	3,000 J	4,400 J	5,100 J	1,900 J	3,900 J	810 J	2,500 J	5,770	
TP-30-12	12	9/25/18	ND	ND	ND		ND	ND	ND	28	33	ND	13	45	27	41	43	19	38	ND	23	53	
TP-31-6	6	9/25/18	ND	ND	ND		ND	ND	ND	25	30	ND	11	35	22	34	41	15	31	ND	20	44	
TP-32-12	12	9/25/18	ND	ND	12	12	73	ND	110	750	1,000	25	430	1,300	830	1,200	1,300	570	1,100	210	670	1,569	
TP-32-6	6	9/25/18	ND	ND	ND		250	ND	330	2,700	3,300	68	1,300	3,900	2,600	4,100	4,300	1,900	3,300	750	2,300	5,318	
TP-33-6	6	9/25/18	ND	ND	ND		ND	ND	ND	6,500	1,400	ND	1,700	8,600	8,100	12,000	4,100	ND	12,000	1,500	1,700	13,660	
TP-33-12	12	9/25/18	ND	ND	ND		ND	ND	ND	35	49	ND	19	52	34	55	60	25	50	ND	30	70	
TP-34-6	6	9/25/18	ND	ND	ND		34	ND	44	370	470	ND	180	590	380	550	590	270	500	99	300	719	
TP-34-12	12	9/25/18	ND	ND	ND		ND	ND	ND	59	76	ND	30	100	61	88	98	38	82	16	53	115	
TP-35-6	6	9/25/18	ND	ND	ND		230	ND	340	2,600	3,300	70	1,400	3,700	2,700	4,100	4,300	1,600	3,600	730	2,200	5,289	
TP-35-12	12	9/25/18	16	17	22	55	160	ND	230	1,700	2,500	48	930	2,800	1,900	2,800	3,500	1,300	2,500	500	1,500	3,695	
TP-36-6	6	9/25/18	ND	ND	ND		ND	ND	ND	20	26	ND	ND	31	20	30	33	14	29	ND	16	39	
TP-37-6	6	9/25/18	ND	ND	ND		350	ND	420	3,300	4,200	91	1,700	4,800	3,400	5,200	5,200	2,100	4,500	920	2,800	6,687	
TP-37-12	12	9/25/18	ND	ND	11	11	79	ND	100	740	970	24	420	1,400	760	1,200	1,300	520	1,000	210	650	1,554	
TP-38-6	6	9/25/18	ND	ND	ND		ND	ND	ND	30	43	ND	17	53	33	47	55	19	44	ND	24	61	
TP-39-6	6	9/25/18	ND	ND	ND		820	ND	1,100	7,500	10,000	250	4,200	11,000	7,800	12,000	14,000	5,100	9,800	2,100	6,300	15,628	
TP-39-12	12	9/25/18	12	15	18	45	140	ND	170	1,300	1,900	38	750	2,100	1,500	2,300	2,500	1,000	2,000	370	1,200	2,977	
TP-39(36)	36	4/25/19	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
TP-40-6	6	9/25/18	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
TP-41-6	6	9/25/18	64	91	130	285	890	ND	1,300	6,300	8,100	260	4,100	10,000	7,000	11,000	12,000	4,500	8,600	1,500	5,800	14,166	
TP-41(24-36)	24-36	4/25/19	ND	ND	ND		ND	ND	ND	14	18	ND	ND	21	14	22	24	ND	19	ND	12	27	
TP-42-6	6	9/25/18	ND	ND	ND		ND	ND	ND	14	23	ND	ND	26	16	22	26	10	22	ND	12	29	
TP-43-6	6	9/25/18	ND	ND	ND		ND	ND	ND	ND	12	ND	ND	14	ND	14	15	ND	12	ND	ND	16	
TP-44-6	6	11/8/18	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
TP-45-6	6	11/8/18	ND	ND	ND		ND	ND	ND	61	68	ND	23	100	58	96	100	43	82	17	53	124	
TP-45-12	12	11/8/18	ND	ND	ND		ND	ND	ND	25	28	ND	ND	38	23	33	38	15	31	ND	21	43	
TP-46-6	6	11/8/18	ND	ND	ND		ND	ND	ND	37	46	ND	20	67	39	57	65	26	51	ND	31	74	
TP-47-6	6	11/8/18	ND	ND	ND		ND	ND	ND	15	20	ND	ND	25	15	23	27	ND	21	ND	13	29	
TP-48-6	6	11/8/18	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	11	ND	11	12	ND	ND	ND	ND	12	
TP-49-6	6	11/8/18	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
TP-50-6	6	11/8/18	ND	120	130	250	1,000	ND	1,300	12,000	14,000	320	6,000	20,000	12,000	18,000	18,000	7,800	16,000	3,200	9,800	23,240	
TP-51-6	6	11/8/18	ND	ND	ND		54	ND	85	620	720	18	310	900	620	880	1,000	350	790	170	470	1,149	
TP-51-12	12	11/8/18	ND	ND	ND		17	ND	12	160	160	ND	53	190	150	220	230	100	190	47	130	288	
TP-52-6	6	11/8/18	360	510	1,400	2270	3,300	ND	7,300	33,000	72,000	1,400	25,000	81,000	59,000	61,000	65,000	31,000	65,000	10,000	29,000	81,050	
TP-52(24-36)	24-36	4/25/19	ND	ND	ND		29	ND	45	320	390	12	180	450	340	460	500	170	430	89	250	599	
TP-53-6	6	11/8/18	1,900	2,800	3,500	8200	24,000	ND	31,000	100,000	210,000	7,100	87,000	270,000	170,000	210,000	220,000	84,000	200,000	40,000	96,000	273,000	
TP-53(24-36)	24-36	4/25/19	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
TP-54-6	6	11/8/18	15	18	17	50	150	ND	230	1,200	1,800	56	870	2,200	1,500	2,100	2,200	830	1,800	340	950	2,700	
TP-54-12	12	11/8/18	14	17	17	48	97	ND	150	880	1,100	37	650	1,600	950	1,200	1,400	520	1,400	250	720	1,598	
TP-54(24-36)	24-36	4/25/19	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
TP-55-6	6	11/8/18	39	59	57	155	910	ND	900	3,600	6,700	190	3,200	8,700	5,400	7,500	7,000	3,100	6,600	1,100	3,500	9,576	
TP-55-12	12	11/8/18	ND	11	16		110	ND	140	1,000	1,500	28	580	2,000	1,200	1,600	1,700	700	1,500	280	870	2,090	
TP-55(24-36)	24-36	4/25/19	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
TP-56-6	6	11/8/18	ND	110	160	270	930	ND	1,400	7,000	11,000	290	4,700	15,000	9,300	13,000	13,000	5,600	12,000	2,200	6,400	16,770	

Table 2- Summary of Chemical Analytical Results-PAHs in Soil
Remedial Investigation/Feasibility Study
 Spokane Gun Club
 Spokane Valley, Washington

Sample Name	Sample Depth/Depth Range (inches bgs)	Date Sampled	PAHs (ug/Kg)																			
			Naphthalenes						PAHs (ug/Kg)								Carcinogenic PAH					
			1-Methylnaphthalene	2-Methylnaphthalene	Naphthalene	Total Naphthalenes	Acenaphthene	Acenaphthylene	Anthracene	Benzo[ghi]perylene	Fluoranthene	Fluorene	Phenanthrene	Pyrene	Benzo[a]anthracene	Benzo[a]pyrene	Benzo[b]fluoranthene	Benzo[k]fluoranthene	Chrysene	Dibenzo[a,h]anthracene	Indeno[1,2,3-cd]pyrene	Toxic Equivalency (TEQ) ²
TP-56-12	12	11/8/18	ND	ND	ND		1,300	ND	1,600	9,100	13,000	ND	5,900	19,000	11,000	15,000	16,000	6,700	14,000	2,600	7,400	19,510
TP-56(24-36)	24-36	4/25/19	ND	ND	ND		11	ND	17	190	250	ND	70	250	200	280	320	110	240	53	170	368
TP-57-6	6	11/8/18	ND	ND	ND		ND	ND	ND	83	89	ND	34	120	72	110	120	50	100	21	65	144
TP-57-12	12	11/8/18	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TP-58-6	6	11/8/18	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	14	ND	13	14	ND	12	ND	ND	15
TP-59-6	6	11/8/18	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TP-60-6	6	11/8/18	ND	ND	ND		77	ND	97	960	1,100	23	410	1,400	870	1,400	1,400	630	1,200	270	810	1,810
TP-60-12	12	11/8/18	ND	ND	ND		ND	ND	ND	22	22	ND	ND	32	19	28	31	13	27	ND	18	36
TP-61-6	6	11/8/18	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TP-62-6	6	11/8/18	ND	ND	ND		ND	ND	ND	37	66	ND	35	82	46	60	64	26	59	ND	30	77
TP-63-6	6	11/8/18	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TP-66(6)	6	2/12/19	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	12	ND	ND	ND	ND	1
TP-67(6)	6	2/12/19	ND	ND	ND		ND	ND	ND	13	13	ND	ND	14	ND	15	19	ND	13	ND	ND	17
TP-68(6)	6	2/12/19	ND	ND	ND		ND	ND	ND	27	28	ND	ND	33	22	32	40	16	29	ND	21	42
TP-69 (6)	6	5/20/19	440	770	800	2010	9,400	ND	8,000	58,000	99,000	2,200	39,000	110,000	70,000	96,000	99,000	45,000	88,000	14,000	52,000	124,880
TP-69 (12)	12	5/20/19	16	21	25	62	170	ND	200	650	1,800	49	810	2,200	1,400	2,000	2,300	1,100	1,800	250	670	2,590
TP-70 (6)	6	5/20/19	ND	ND	ND		15	ND	16	140	140	ND	65	170	130	220	210	92	180	45	130	283
TP-70 (12)	12	5/20/19	ND	ND	ND		ND	ND	ND	18	38	ND	14	46	30	48	58	27	42	ND	17	62
TP-71 (6)	6	5/20/19	ND	130	210	340	770	ND	840	7,900	8,400	230	3,400	9,500	7,300	12,000	13,000	5,700	9,500	2,400	7,100	15,645
TP-71 (12)	12	5/20/19	ND	ND	ND		37	ND	46	250	520	ND	190	610	410	630	760	290	530	86	250	815
TP-72 (6)	6	5/20/19	140	180	190	67	1,400	ND	2,100	14,000	23,000	490	9,800	28,000	17,000	23,000	27,000	9,900	22,000	4,300	12,000	30,240
TP-72 (12)	12	5/20/19	ND	ND	ND		79	ND	72	300	850	17	290	960	660	930	1,200	460	810	120	320	1,214
TP-75 (0-1')	0-12	12/21/20	ND	ND	ND		ND	ND	ND	16	16	ND	ND	19	14	21	24	ND	17	ND	14	26
TP-76 (0-1')	0-12	12/21/20	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	11	ND	ND	ND	ND	1
TP-77 (0-1')	0-12	12/21/20	ND	ND	ND		ND	ND	ND	19	20	ND	ND	23	17	26	27	14	22	ND	15	34
TP-78 (0-1')	0-12	12/21/20	ND	ND	ND		22	ND	24	340	380	ND	140	490	310	510	550	190	440	99	290	658
TP-78(1-2)	12-24	12/21/20	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TP-79 (0-1')	0-12	12/21/20	ND	ND	ND		ND	ND	ND	34	33	ND	ND	45	29	44	47	19	39	ND	26	56
TP-80 (0-1')	0-12	12/22/20	ND	ND	ND		ND	ND	ND	140	160	ND	60	200	140	140	230	26	170	42	120	198
TP-80(1-2)	12-24	12/22/20	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TP-81 (0-1')	0-12	12/21/20	ND	ND	ND		ND	ND	ND	27	29	ND	12	34	25	38	41	17	32	ND	22	49
TP-82 (0-1')	0-12	12/22/20	ND	ND	ND		1,300	ND	1,100	5,200	10,000	330	4,300	10,000	8,800	9,700	11,000	3,900	8,300	1,700	4,800	12,803
TP-82(1-2)	12-24	12/22/20	ND	ND	ND		ND	ND	ND	23	25	ND	11	35	24	33	34	13	31	ND	18	42
TP-83 (0-1')	0-12	12/22/20	ND	ND	ND		21	ND	22	260	260	ND	100	360	300	420	380	140	390	75	190	532
TP-83(1-2)	12-24	12/22/20	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TP-84 (0-1')	0-12	12/22/20	ND	ND	ND		46	ND	49	610	650	14	240	840	630	990	910	360	800	170	470	1,252
TP-84(1-2)	12-24	12/22/20	ND	ND	ND		ND	ND	ND	40	48	ND	14	60	45	63	66	27	58	12	32	82
TP-85 (0-1')	0-12	12/22/20	110	120	150	380	790	ND	940	10,000	14,000	300	5,100	15,000	13,000	16,000	18,000	6,700	14,000	2,900	8,900	21,090
TP-85(1-2)	12-24	12/22/20	20	24	17	61	77	ND	140	660	890	49	730	1,400	820	1,100	1,100	350	1,100	180	510	1,407
TP-85(3-4)	36-48	12/22/20	ND	ND	ND		ND	ND	ND	11	18	ND	20	33	18	23	23	ND	24	ND	ND	27
TP-87(0-1)	0-12	1/4/2021	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	15	18	ND	12	ND	ND	17
TP-88(0-1)	0-12	1/4/2021	ND	ND	ND		ND	ND	ND	16	18	ND	ND	22	17	25	27	ND	20	ND	14	31
TP-89(0-1)	0-12	1/4/2021	ND	ND	ND		18	ND	29	340	380	ND	120	480	340	570	680	240	450	96	290	739
TP-90(0-1)	0-12	1/4/2021	ND	ND	ND		ND	ND	15	81	99	ND	62	150	92	150	160	60	130	24	68	192
TP-91(0-1)	0-12	1/4/2021	ND	ND	ND		24	ND	33	350	390	ND	150	520	340	550	590	220	430	91	280	706
TP-92(0-1)	0-12	1/4/2021	ND	ND	ND		16	ND	35	290	310	ND	180	460	270	420	440	150	360	71	220	539
TP-93 (0-6")	0-6	1/19/2021	ND	ND	ND		ND	ND	ND	4,300	840	ND	490	1,500	4,000	6,500	3,300	770	9,000	1,500	1,400	7,687
TP-93 (1')	6-12	3/4/2021	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TP-94 (0-6")	0-6	1/19/2021	ND	ND	ND		ND	ND	ND	77	76	ND	30	99	67	120	130	46	93	21	59	153
TP-94 (1')	6-12	3/4/2021	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TP-95 (0-6")	0-6	1/19/2021	ND	ND	ND		240	ND	240	3,500	2,200	ND	990	2,800	2,400	5,000	4,300	2,000	2,900	920	2,900	6,281
TP-95 (1')	6-12	3/4/2021	ND	ND	ND		ND	ND	ND	13	13	ND	ND	20	13	18	21	ND	17	ND	ND	22
TP-96 (0-6")	0-6	3/4/2021	ND	ND	ND		ND	ND	ND	41	42	ND	16	54	37	56	62	24	48	12	31	73
TP-97 (0-6")	0-6	3/4/2021	ND	ND	ND		ND	ND	ND	50	46	ND	15	57	42	65	75	28	55	13	38	85
TP-98 (0-6")	0-6	3/4/2021	ND	ND	ND		ND	ND	ND	26	23	ND	11	30	22	35	39	15	27	ND	20	45
Borings																						
B-1(0-6)	0-6	4/25/19	ND	ND	ND		ND	ND	ND	18	19	ND	ND	23	14	23	26	ND	22	ND	14	29
B-2(0-6)	0-6	4/25/19	ND	ND	17	17	80	ND	110	1,100	1,400	44	510	1,300	1,000	1,400	2,000	670	1,300	300	950	1,905
B-2(6-12)	6-12	4/25/19	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B-3(0-6)	0-6	4/25/19	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B-4(0-6)	0-6	4/25/19	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	12	14	ND	ND	ND	ND	13

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 Spokane Gun Club
 Spokane Valley, Washington

Sample Name	Sample Depth/Depth Range (inches bgs)	Date Sampled	PAHs (ug/Kg)																			
			Naphthalenes					PAHs (ug/Kg)										Carcinogenic PAH				
			1-Methylnaphthalene	2-Methylnaphthalene	Naphthalene	Total Naphthalenes	Acenaphthene	Acenaphthylene	Anthracene	Benzo[ghi]perylene	Fluoranthene	Fluorene	Phenanthrene	Pyrene	Benzo[a]anthracene	Benzo[a]pyrene	Benzo[b]fluoranthene	Benzo[k]fluoranthene	Chrysene	Dibenzo[a,h]anthracene	Indeno[1,2,3-cd]pyrene	Toxic Equivalency (TEQ) ²
B-5(0-6)	0-6	4/25/19	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B-6(0-6)	0-6	4/25/19	ND	ND	ND		87	ND	110	980	1,200	26	490	1,400	910	1,400	1,600	600	1,300	280	840	1,836
B-6(6-12)	6-12	4/25/19	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B-7(0-6)	0-6	4/25/19	ND	ND	ND		ND	ND	ND	19	20	ND	ND	25	16	25	28	ND	22	ND	16	31
B-8(0-6)	0-6	4/25/19	ND	ND	ND		12	ND	21	230	330	ND	130	390	200	310	350	140	310	62	180	406
B-8(6-12)	6-12	4/25/19	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B-9(36)	36	4/25/19	ND	ND	ND		ND	ND	ND	35	49	ND	19	48	40	50	61	25	49	11	29	67
B-10(36)	36	4/25/19	ND	ND	ND		68	ND	99	600	890	26	350	860	710	930	1,100	420	790	170	520	1,230
B-11(36)	36	4/25/19	ND	ND	ND		ND	ND	11	64	95	ND	40	100	81	100	110	46	100	19	52	132
B-12(96)	96	4/25/19	1,500	2,200	2,400	6100	17,000	ND	21,000	120,000	200,000	6,800	86,000	230,000	160,000	220,000	240,000	85,000	200,000	39,000	110,000	285,400
B-13(42)	42	4/25/19	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	12	ND	13	14	ND	13	ND	ND	15
B-14(0-6)	0-6	4/25/19	ND	ND	ND		4,000	ND	4,900	50,000	52,000	1,400	22,000	64,000	46,000	72,000	70,000	23,000	64,000	14,000	33,000	91,240
B-14(36)	36	4/25/19	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B-15(0-6)	0-6	4/25/19	19	26	35	80	270	ND	330	2,800	3,900	85	1,400	4,200	3,000	4,500	4,900	2,000	3,800	850	2,600	5,873
B-15(6-12)	6-12	4/25/19	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B-16(0-14)	0-14	4/25/19	22	35	34		240	ND	370	2,300	2,600	84	1,700	4,400	2,400	3,600	3,400	1,200	3,000	660	1,800	4,576
B-16(14-30)	14-30	4/25/19	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B-17(0-6)	0-6	4/25/19	ND	1,100	1,900	3000	11,000	ND	13,000	80,000	120,000	3,300	50,000	130,000	95,000	140,000	140,000	66,000	120,000	26,000	73,000	181,200
B-17(6-12)	6-12	4/25/19	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	11	ND	ND	ND	ND	1
B-18(0-6)	0-6	4/25/19	170	220	250		1,700	ND	2,000	16,000	18,000	580	8,700	23,000	16,000	24,000	25,000	11,000	20,000	4,500	13,000	31,150
B-18(12-18)	12-18	4/25/19	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B-19(0-6)	0-6	4/25/19	ND	ND	ND		ND	ND	ND	50	71	ND	29	84	53	76	87	34	70	14	43	100
SB-1(2-3)	24-36	10/6/20	ND	ND	ND		ND	ND	12	190	160	ND	58	190	140	240	280	99	180	46	140	312
SB-1(3'-4')	36-48	10/6/20	ND	ND	ND		ND	ND	ND	41	60	ND	21	73	57	86	110	45	68	14	37	113
SB-2(2-3)	24-36	10/6/20	ND	ND	ND		ND	ND	ND	21	16	ND	ND	20	17	22	31	13	20	ND	17	30
SB-3(2-3)	24-36	10/6/20	ND	ND	ND		ND	ND	ND	23	21	ND	ND	27	18	27	34	14	22	ND	17	36
SB-4(2-3)	24-36	10/6/20	ND	ND	ND		240	ND	300	2,600	3,100	ND	1,200	3,700	2,600	4,000	4,000	1,200	3,200	670	2,100	5,089
SB-4(4-5)	48-60	10/6/20	ND	ND	ND		13	ND	20	230	250	ND	95	280	220	320	370	120	260	59	180	418
SB-5(0-1)	0-12	10/5/20	ND	5,900	5,800	11700	87,000	ND	130,000	800,000	1,100,000	33,000	470,000	1,200,000	970,000	1,400,000	1,400,000	500,000	1,000,000	210,000	620,000	1,780,000
SB-5(2-3)	24-36	10/5/20	190	300	440		3,500	ND	4,600	27,000	41,000	1,300	18,000	46,000	36,000	54,000	55,000	20,000	42,000	7,900	24,000	68,710
SB-5(4-5)	48-60	10/5/20	ND	ND	ND		420	ND	590	4,100	4,800	150	2,100	5,300	4,300	6,300	6,500	2,600	4,600	1,100	3,300	8,126
SB-5(6-7)	72-84	10/6/20	ND	ND	ND		10	ND	18	170	220	ND	73	240	190	270	300	100	210	46	140	350
SB-5(7'-8')	84-96	10/6/20	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	10	13	ND	ND	ND	ND	11
SB-6(2-3)	24-36	10/6/20	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	11	13	ND	ND	ND	ND	12
SB-7(1-2)	12-24	10/6/20	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SB-7(2-3)	24-36	10/6/20	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SB-8(0-1)	0-12	10/5/20	ND	7,800	10,000	17800	83,000	ND	120,000	720,000	1,000,000	29,000	460,000	1,300,000	890,000	1,400,000	1,400,000	520,000	1,000,000	210,000	610,000	1,773,000
SB-8(2-3)	24-36	10/5/20	ND	82	120	202	930	ND	1,200	12,000	12,000	300	4,600	14,000	10,000	17,000	17,000	5,500	12,000	2,600	8,700	21,500
SB-8(4'-5')	48-60	10/5/20	ND	ND	ND		270	ND	410	2,100	3,600	ND	1,500	4,000	3,000	5,100	5,700	1,800	3,300	640	1,800	6,427
SB-9(3-4)	36-48	10/5/20	190	270	450	910	2,900	ND	4,000	22,000	38,000	1,100	16,000	43,000	32,000	48,000	48,000	17,000	38,000	6,700	21,000	60,850
SB-9(4-5)	48-60	10/5/20	ND	ND	ND		99	ND	150	1,200	1,200	37	630	1,700	1,300	1,900	1,700	670	1,400	320	900	2,403
SB-10(1-2)	12-24	10/6/20	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SB-11(1-2)	12-24	10/6/20	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SB-12(4-5)	48-60	10/5/20	ND	ND	ND		47	ND	67	590	690	18	260	740	590	900	990	370	690	150	470	1,164
SB-13(1-2)	12-24	10/5/20	ND	ND	ND		160	ND	200	1,600	2,100	ND	800	2,400	1,900	2,900	3,100	1,100	2,300	470	1,300	3,710
SB-13(2-3)	24-36	10/5/20	ND	ND	ND		21	ND	32	280	350	ND	130	400	330	500	540	190	380	79	230	641
SB-13(3-4)	36-48	10/5/20	ND	ND	ND		ND	ND	10	96	96	ND	41	120	92	130	150	52	110	24	69	170
SB-13(4'-5')	48-60	10/5/20	ND	ND	ND		670	ND	1,200	8,200	10,000	310	4,700	14,000	11,000	19,000	20,000	7,700	14,000	2,400	6,700	23,920
SB-14(1-2)	12-24	10/6/20	ND	ND	ND		ND	ND	ND	21	24	ND	ND	31	19	29	34	14	25	ND	17	38
SB-15(0-1)	0-12	10/6/20	ND	ND	ND		290	ND	300	3,200	4,300	ND	1,500	5,500	3,500	5,800	6,000	2,400	4,700	910	2,900	7,418
SB-15(1-2)	12-24	10/6/20	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SB-16(1-2)	12-24	10/5/20	10	14	15	39	150	ND	190	2,000	2,100	55	900	2,400	1,900	2,800	3,200	1,300	2,300	480	1,500	3,661
SB-16(3'-4')	36-48	10/5/20	ND	ND	ND		81	ND	110	590	1,100	27	460	1,300	970	1,400	1,500	550	1,100	190	540	1,786

Table 2- Summary of Chemical Analytical Results-PAHs in Soil
Remedial Investigation/Feasibility Study
 Spokane Gun Club
 Spokane Valley, Washington

Sample Name	Sample Depth/Depth Range (inches bgs)	Date Sampled	PAHs (ug/Kg)																				
			Naphthalenes															Carcinogenic PAH					
			1-Methylnaphthalene	2-Methylnaphthalene	Naphthalene	Total Naphthalenes	Acenaphthene	Acenaphthylene	Anthracene	Benzo[ghi]perylene	Fluoranthene	Fluorene	Phenanthrene	Pyrene	Benzo[a]anthracene	Benzo[a]pyrene	Benzo[b]fluoranthene	Benzo[k]fluoranthene	Chrysene	Dibenz[a,h]anthracene	Indeno[1,2,3-cd]pyrene	Toxic Equivalency (TEQ) ²	
SB-16(4'-5')	48-60	10/5/20	ND	ND	ND		32	ND	38	390	430	11	170	460	370	550	580	210	430	95	290	709	
SB-17(3-4)	36-48	10/5/20	ND	ND	ND		ND	ND	12	170	220	ND	63	250	190	300	310	110	220	46	140	382	
SB-17(4-5)	48-60	10/5/20	ND	ND	ND		ND	ND	ND	33	31	ND	10	40	30	47	53	22	38	ND	27	61	
SB-18(6-7)	72-84	10/6/20	ND	ND	ND		ND	ND	ND	24	12	ND	ND	15	20	39	40	17	26	ND	20	49	
SB-19(6-7)	72-84	10/6/20	ND	ND	ND		ND	ND	ND	51	80	ND	31	79	65	88	110	33	72	15	43	115	
SB-20(5-6)	60-72	10/6/20	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
MTCA Cleanup Level for Unrestricted Land Use			5,000					NE	NE	NE	NE	NE	NE	NE	NE	NE	100	NE	NE	NE	NE	NE	100

Notes
 min 11
 max 17,800
¹Chemical analyses conducted by TestAmerica Labs of Spokane, Washington. Polycyclic Aromatic Hydrocarbons analyzed by EPA Method 8270D.
²MTCA 173-340-708 was utilized to assess total cPAH concentration using Toxicity Equivalency Factors shown in Table 708-2 of MTCA.
BOLD indicates detected concentration is above regulatory limit.
 bgs = below ground surface
 µg/Kg = micrograms per kilograms
 NE = cleanup level not established
 ND = analyte was not detected above method reporting limits (MRL). See analytical report for MRL.
 -- = Not Applicable
 SB-1(1-2) = Sonic Boring Number 1 (Sample Depth 1 to 2 feet below ground surface)
 MTCA = Model Toxics Control Act
 PAH = polycyclic aromatic hydrocarbons
 J = estimated value.

Table 4
Alternative 1A Cost Estimate

Alternative 1A – Excavation, Stabilization, and Offsite Disposal				
<ul style="list-style-type: none"> •Excavate material containing COC greater than CULs; •Stabilize lead in materials containing lead greater than 3,250 mg/kg; •Transport and dispose of non-hazardous and stabilized material off site at Waste Management’s Graham Road Subtitle D landfill in Medical Lake, Washington (Graham Road). 				
Assumptions				
1) Soil swell factor is 1.20 BCY/LCY and bulk density is 1.45 TON/LCY across all depths.				
2) Excavations will be sloped and do not require shoring.				
3) Hazardous volume is 6800 LCY.				
4) Non-hazardous COC-contaminated soil volume is 184800 LCY.				
5) Hazardous soil will be treated on-site and disposed of at Graham Road.				
6) Non-hazardous soil will be directly loaded into truck and trailers and disposed at Graham Road.				
7) Confirmation sampling will be conducted after excavation has been completed.				
8) Excavation will consist of vertical intervals, which are designated every 12 inches.				
9) Excavations will be sloped for safety but not backfilled.				
Item	Quantity	Unit	Unit Cost	Cost
Capital Costs				
Planning Documents				
Compliance monitoring work plan preparation	1	LS	\$ 13,680	\$ 13,680
Completion sampling work plan preparation	1	LS	\$ 11,270	\$ 11,270
Lead stabilization pilot study (includes analytical)	1	LS	\$ 18,963	\$ 18,963
Site Preparation				
Mobilization/demobilization	1	LS	\$ 743,000	\$ 743,000
Temporary erosion and sedimentation control measures	1	LS	\$ 15,000	\$ 15,000
Excavation, treatment, and off-site disposal				
Excavation of hazardous lead contaminated soil	6,800	LCY	\$ 12	\$ 81,600
Lead stabilization	6,800	CY	\$ 16	\$ 108,800
Excavation of non-hazardous/solid waste contaminated soil	184,736	LCY	\$ 12	\$ 2,216,831
Loading, transport and disposal of stabilized soil at Graham Road	10,156	TON	\$ 80	\$ 817,300
Loading, transport and disposal of non-hazardous soil at Graham Road	267,867	TON	\$ 80	\$ 21,555,263
Confirmation sampling field work				
Includes analytical	1	LS	\$ 25,218	\$ 25,218
Professional / Technical Services				
Project management	10%	LS	\$ 39,887	\$ 39,887
Remedial design, plans & specs	1	LS	\$ 78,160	\$ 78,160
Construction management	1	LS	\$ 320,713	\$ 320,713
Subtotal				\$ 26,045,685
Tax	8.9%			\$ 2,275,108
Total Design, Permitting, Construction				\$ 28,320,793

Table 4
Alternative 1A Cost Estimate

Periodic Costs						
Completion Reporting	1	EA	\$	30,616	\$	30,616
Professional/Technical Services						
Five-year reviews and reporting	1	EA	\$	13,988	\$	13,988
PRESENT VALUE ANALYSIS						
Discount rate	2.4%					
Total years	5					
COST ITEM	YEAR	TOTAL COST	TOTAL ANNUAL COST	DISCOUNT FACTOR	NET PRESENT VALUE	
Capital	0	\$ 28,320,793	\$ 28,320,793	1.000	\$	28,320,793
Periodic (five-year report)	5	\$ 13,988	\$ 13,988	0.889	\$	12,442
		<u>\$ 28,334,781</u>			\$	<u>28,333,235</u>
TOTAL NET PRESENT VALUE (rounded to nearest \$1,000)					\$	28,334,000
NOTES:						
Present value analysis uses average discount rates for treasury notes from the week of February 8, 2021 (http://www.federalreserve.gov/releases/h15/).						
AC = acre						
COC = Contaminants of concern						
CUL = MTCA Method A cleanup levels for unrestricted land use						
CY = cubic yards.						
BCY = Bank cubic yards.						
DA = day.						
EA = each.						
ft bgs = feet below ground surface.						
LCY = Loose cubic yards.						
LF = Linear feet.						
LS = lump sum.						
SF = square feet.						

Table 5
Alternative 1B Cost Estimate

Alternative 1B – Excavation and Offsite Disposal				
<ul style="list-style-type: none"> •Excavate material containing COC greater than CULs; •Transport and dispose of material containing lead concentrations greater than 3,250 mg/kg as a Hazardous Waste at Waste Management's ChemWaste Subtitle C landfill in Arlington, Oregon (ChemWaste); •Transport and dispose of contaminated and material off-site at Graham Road. 				
Assumptions				
1) Soil swell factor is 1.2 BCY/LCY and bulk density is 1.45 TON/LCY across all depths.				
2) Excavations will be sloped and do not require shoring.				
3) Hazardous volume is 6800 LCY.				
4) Non-hazardous COC-contaminated soil volume is 184800 LCY.				
5) Non-hazardous soil will be direct loaded and disposed off-site at Graham Road.				
6) Hazardous soil will be disposed off-site at ChemWaste Arlington, OR.				
7) Confirmation sampling will be conducted after excavation has been completed.				
8) Excavation will consist of vertical intervals, which are designated every 12 inches.				
Item	Quantity	Unit	Unit Cost	Cost
Capital Costs				
Planning Documents				
Compliance monitoring work plan preparation	1	LS	\$ 13,680	\$ 13,680
Completion sampling work plan preparation	1	LS	\$ 11,270	\$ 11,270
Site Preparation				
Mobilization/demobilization	1	LS	\$ 764,000	\$ 764,000
Temporary erosion and sedimentation control measures	1	LS	\$ 15,000	\$ 15,000
Excavation and off-site disposal				
Excavation of hazardous lead contaminated soil	6,800	LCY	\$ 12.00	\$ 81,600
Excavation of non-hazardous/solid waste contaminated soil	184,800	LCY	\$ 12.00	\$ 2,217,600
Loading, transport and disposal of hazardous soil at ChemWaste Arlington	9,860	TON	\$ 162.00	\$ 1,597,400
Loading, transport and disposal of non-hazardous soil at Graham Road	267,960	TON	\$ 80.47	\$ 21,562,741
Confirmation sampling field work				
Includes analytical	1	LS	\$ 25,218	\$ 25,218
Professional / Technical Services				
Project management	10%	LS	\$ 39,887	\$ 39,887
Remedial design	1	LS	\$ 78,160	\$ 78,160
Construction management	1	LS	\$ 320,713	\$ 320,713
Subtotal				\$ 26,727,269
Tax	8.9%			\$ 2,337,457
Total Design, Permitting, Construction				\$ 29,064,726

Table 5
Alternative 1B Cost Estimate

Periodic Costs						
Completion Reporting	1	EA	\$ 30,616	\$	30,616	
Professional/Technical Services						
Five-year reviews and reporting	1	EA	\$ 13,988	\$	13,988	
PRESENT VALUE ANALYSIS						
Discount rate	2.4%					
Total years	5					
COST ITEM	YEAR	TOTAL COST	TOTAL ANNUAL COST	DISCOUNT FACTOR	NET PRESENT VALUE	
Capital	0	\$ 29,064,726	\$ 29,064,726	1.000	\$ 29,064,726	
Periodic (five-year report)	5	\$ 13,988	\$ 13,988	0.889	\$ 12,442	
		\$ 29,078,714			\$ 29,077,168	
TOTAL NET PRESENT VALUE (rounded to nearest \$1,000)					\$ 29,078,000	
NOTES:						
Present value analysis uses average discount rates for treasury notes from the week of February 8, 2021 (http://www.federalreserve.gov/releases/h15/).						
AC = acre						
COC = Contaminants of concern						
CUL = MTCA Method A cleanup levels for unrestricted land use						
CY = cubic yards.						
BCY = Bank cubic yards.						
DA = day.						
EA = each.						
ft bgs = feet below ground surface.						
LCY = Loose cubic yards.						
LF = Linear feet.						
LS = lump sum.						
SF = square feet.						

Table 6
Alternative 2A Cost Estimate

Alternative 2A — Consolidate, Stabilize, and Contain Contaminated Materials in an Onsite, Subgrade Repository					
<ul style="list-style-type: none"> •Excavate material containing COC greater than CULs; •Stabilize lead in materials containing lead greater than 3,250 mg/kg; •Construct an on-site repository about 5 acres in size and up to 30 feet deep; •Backfill stabilized material and COC contaminated material in repository; •Install an engineered cap consisting of an HDPE liner, drainage layer, growth media, and native grasses to cover the repository. 					
Assumptions					
1) Soil swell factor is 1.2 BCY/LCY and bulk density is 1.45 TON/LCY across all depths.					
2) Excavation will not require shoring.					
3) Hazardous volume is 6800 LCY.					
4) Non-hazardous COC-contaminated soil volume is 184800 LCY.					
5) Construction of on-site repository to contain COC-contaminated soil.					
6) No off-site soil disposal.					
7) Soil generated from on-site repository construction will be reused on-site as backfill and/or capping materials.					
8) Confirmation sampling will be conducted after excavation has been completed.					
Item	Quantity	Unit	Unit Cost	Cost	
Capital Costs					
Planning Documents					
Compliance monitoring work plan preparation	1	LS	\$ 13,680	\$	13,680
Completion sampling work plan preparation	1	LS	\$ 11,270	\$	11,270
Lead stabilization pilot study	1	LS	\$ 18,963	\$	18,963
Site Preparation					
Mobilization/demobilization	1	LS	\$ 274,700	\$	274,700
Temp. erosion and sedimentation control measures	1	LS	\$ 15,000	\$	15,000
Excavation, treatment, and on-site disposal					
Excavation of hazardous lead contaminated soil	6,800	LCY	\$ 12	\$	81,600
Lead stabilization	6,800	CY	\$ 16	\$	108,800
Excavation of non-hazardous contaminated soil	184,736	LCY	\$ 12	\$	2,216,831
Excavation of on-site repository (30' X 420' X 420')	191,536	LCY	\$ 8	\$	1,532,300
40-mil HDPE liner installation, welded	222,205	SF	\$ 2	\$	444,410
2' soil cap over liner	16,460	CY	\$ 3	\$	49,379
Backfilling & Compaction (12" Lifts)					
Stabilized and non-hazardous soil	175,076	CY	\$ 3	\$	525,229
Excavations with borrow material from repository	175,076	CY	\$ 3	\$	525,229
Revegetation of capped area					
Native and playfield seed	5	AC	\$ 2,000	\$	10,202
Confirmation sampling field work					
Includes analytical	1	LS	\$ 25,218	\$	25,218
Professional / Technical Services					
Project management	10%	LS	\$ 39,887	\$	39,887
Remedial design	1	LS	\$ 78,160	\$	78,160
Construction management	1	LS	\$ 320,713	\$	320,713
Subtotal				\$	6,291,571
Tax	8.9%			\$	40,460
Total Design, Permitting, Construction				\$	6,332,031

**Table 6
Alternative 2A Cost Estimate**

Periodic Costs						
Completion Reporting		1	EA	\$ 30,616	\$	30,616
Professional/Technical Services						
Five-year reviews and reporting		1	EA	\$ 13,988	\$	13,988
PRESENT VALUE ANALYSIS						
Discount rate				2.4%		
Total years				5		
COST ITEM	YEAR	TOTAL COST	TOTAL ANNUAL COST	DISCOUNT FACTOR		NET PRESENT VALUE
Capital	0	\$ 6,332,031	\$ 6,332,031	1.000	\$	6,332,031
Periodic (five-year report)	5	\$ 13,988	\$ 13,988	0.889	\$	12,442
Periodic (five-year report)	10	\$ 13,988	\$ 13,988	0.791	\$	11,067
Periodic (five-year report)	15	\$ 13,988	\$ 13,988	0.704	\$	9,844
Periodic (five-year report)	20	\$ 13,988	\$ 13,988	0.626	\$	8,756
Periodic (five-year report)	25	\$ 13,988	\$ 13,988	0.557	\$	7,788
Periodic (five-year report)	30	\$ 13,988	\$ 13,988	0.495	\$	6,927
		\$ 6,415,959				\$ 6,388,856
TOTAL NET PRESENT VALUE (rounded to nearest \$1,000)					\$	6,389,000
NOTES:						
Present value analysis uses average discount rates for treasury notes from the week of February 8, 2021 (http://www.federalreserve.gov/releases/h15/).						
AC = acre						
COC = Contaminants of concern						
CUL = MTCA Method A cleanup levels for unrestricted land use						
CY = cubic yards.						
BCY = Bank cubic yards.						
DA = day.						
EA = each.						
ft bgs = feet below ground surface.						
LCY = Loose cubic yards.						
LF = Linear feet.						
LS = lump sum.						
SF = square feet.						

**Table 7
Alternative 2B Cost Estimate**

Alternative 2B — Consolidate and Contain Non-Hazardous Materials in an Onsite, Subgrade Repository with Offsite Disposal of Hazardous Materials				
<ul style="list-style-type: none"> •Excavate material containing COC greater than CULs; •Transport and dispose of material containing lead concentrations greater than 3,250 mg/kg as a hazardous waste at ChemWaste; •Construct an on-site repository about 5 acres in size and up to 30 feet deep; •Place COC contaminated material in repository; •Install an engineered cap consisting of an HDPE liner, drainage layer, growth media, and native grasses to cover the repository. 				
Assumptions:				
1) Soil swell factor is 1.2 BCY/LCY and bulk density is 1.45 TON/LCY across all depths.				
2) Excavation will not require shoring.				
3) Hazardous volume is 6800 LCY.				
4) Non-hazardous COC-contaminated soil volume is 184800 LCY.				
5) Hazardous soil will be disposed off-site at ChemWaste Arlington, OR.				
6) Construction of on-site repository to contain non-hazardous materials.				
7) Soil generated from on-site repository excavation will remain and be reused on-site.				
8) Confirmation sampling will be conducted after backfill has been completed.				
Item	Quantity	Unit	Unit Cost	Cost
Capital Costs				
Planning Documents				
Compliance monitoring work plan preparation	1	LS	\$ 13,680	\$ 13,680
Completion sampling work plan preparation	1	LS	\$ 11,270	\$ 11,270
Site Preparation				
Mobilization/demobilization	1	LS	\$ 343,700	\$ 343,700
Temp. erosion and sedimentation control measures	1	LS	\$ 15,000	\$ 15,000
Excavation, and consolidation, and on-site disposal with off-site disposal of hazardous waste				
Excavation of hazardous lead contaminated soil	6,800	LCY	\$ 12	\$ 81,600
Loading, transport and disposal of stabilized soil at ChemWaste	9,860	TON	\$ 162	\$ 1,597,400
Excavation of non-hazardous contaminated soil	184,736	LCY	\$ 12	\$ 2,216,831
Excavation of on-site repository, ~30' X 415' X 415'	184,736	LCY	\$ 8	\$ 1,477,900
40-mil HDPE liner installation, welded	215,193	SF	\$ 2	\$ 430,385
2' soil cap over liner	15,940	CY	\$ 3	\$ 47,821
Backfilling & Compaction (12" Lifts)				
Stabilized and non-hazardous soil	168,796	CY	\$ 3	\$ 506,387
Excavations with borrow material from repository	168,796	CY	\$ 3	\$ 506,387
Revegetation of capped area				
Native and playfield seed	5	AC	\$ 2,000	\$ 9,880
Confirmation sampling field work				
Includes analytical	1	LS	\$ 25,218	\$ 25,218
Professional / Technical Services				
Project management	10%	LS	\$ 39,887	\$ 39,887
Remedial design	1	LS	\$ 78,160	\$ 78,160
Construction management	1	LS	\$ 320,713	\$ 320,713
Subtotal				\$ 7,215,832
Tax	8.9%			\$ 38,482
Total Design, Permitting, Construction			\$ 7,254,314	
Periodic Costs				
Completion Reporting	1	EA	\$ 30,616	\$ 30,616
Professional/Technical Services				
Five-year reviews and reporting	1	EA	\$ 13,988	\$ 13,988

Table 7
Alternative 2B Cost Estimate

PRESENT VALUE ANALYSIS						
Discount rate		2.4%				
Total years		5				
COST ITEM	YEAR	TOTAL COST	TOTAL ANNUAL COST	DISCOUNT FACTOR	NET PRESENT VALUE	
Periodic (five-year report)	5	\$ 13,988	\$ 13,988	0.889	\$ 12,442	
Periodic (five-year report)	10	\$ 13,988	\$ 13,988	0.791	\$ 11,067	
Periodic (five-year report)	15	\$ 13,988	\$ 13,988	0.704	\$ 9,844	
Periodic (five-year report)	20	\$ 13,988	\$ 13,988	0.626	\$ 8,756	
Periodic (five-year report)	25	\$ 13,988	\$ 13,988	0.557	\$ 7,788	
Periodic (five-year report)	30	\$ 13,988	\$ 13,988	0.495	\$ 6,927	
		\$ 7,338,242			\$ 7,311,139	
TOTAL NET PRESENT VALUE (rounded to nearest \$1,000)					\$	7,312,000
NOTES:						
Present value analysis uses average discount rates for treasury notes from the week of February 8, 2021 (http://www.federalreserve.gov/releases/h15/).						
AC = acre						
COC = Contaminants of concern						
CUL = MTCA Method A cleanup levels for unrestricted land use						
CY = cubic yards.						
BCY = Bank cubic yards.						
DA = day.						
EA = each.						
ft bgs = feet below ground surface.						
LCY = Loose cubic yards.						
LF = Linear feet.						
LS = lump sum.						
SF = square feet.						

**Table 8
Alternative 2C Cost Estimate**

Alternative 2C – Consolidate, Stabilize, and Contain Contaminated Materials in an Onsite, Above Grade Repository					
<ul style="list-style-type: none"> •Excavate material containing COC greater than CULs; •Stabilize lead in materials containing lead greater than 3,250 mg/kg; •Construct an on-site repository over contaminated materials on the southeast portion of the subject property about 10 acres in size; •Place stabilized material and COC contaminated material in repository; •Install an engineered cap consisting of an HDPE liner, drainage layer, growth media, and native grasses to cover the repository. 					
Assumptions 1) Soil swell factor is 1.2 BCY/LCY and bulk density is 1.45 TON/LCY across all depths. 2) Excavation will not require shoring. 3) Hazardous volume is 6800 LCY. 4) Non-hazardous COC-contaminated soil volume is 151,200 LCY. 5) Construction of on-site repository will contain all excavated soil. 6) No off-site soil disposal. 7) Confirmation sampling will be conducted after backfill of hazardous soil has been removed.					
Item	Quantity	Unit	Unit Cost		Cost
Capital Costs					
Planning Documents					
Compliance monitoring work plan preparation	1	LS	\$ 13,680	\$	13,680
Completion sampling work plan preparation	1	LS	\$ 11,270	\$	11,270
Lead stabilization pilot study	1	LS	\$ 18,963	\$	18,963
Site Preparation					
Mobilization/demobilization	1	LS	\$ 201,800	\$	201,800
Temp. erosion and sedimentation control measures	1	LF	\$ 15,000	\$	15,000
Excavation, treatment, and on-site disposal					
Excavation of hazardous lead contaminated soil	6,800	LCY	\$ 12	\$	81,600
Lead stabilization	6,800	CY	\$ 16	\$	108,800
Excavation of non-hazardous contaminated soil	151,200	LCY	\$ 12	\$	1,814,400
Placement, compaction, and grading of waste	158,204	LCY	\$ 3	\$	395,600
40-mil HDPE liner installation, welded	445,150	SF	\$ 2	\$	890,300
2' soil cap over liner (purchase and place)	32,974	CY	\$ 22	\$	725,430
Revegetation of capped area					
Native and playfield seed	10	AC	\$ 2,000	\$	20,438
Confirmation sampling field work					
Includes analytical	1	LS	\$ 25,218	\$	25,218
Professional / Technical Services					
Project management	10%	LS	\$ 39,887	\$	39,887
Remedial design	1	LS	\$ 78,160	\$	78,160
Construction management	1	LS	\$ 320,713	\$	320,713
Subtotal				\$	4,761,259
Tax	8.9%			\$	145,619
Total Design, Permitting, Construction				\$	4,906,878

**Table 8
Alternative 2C Cost Estimate**

Periodic Costs						
Completion Reporting	1	EA	\$	30,616	\$	30,616
Professional/Technical Services						
Five-year reviews and reporting	1	EA	\$	13,988	\$	13,988
PRESENT VALUE ANALYSIS						
Discount rate	2.4%					
Total years	5					
COST ITEM	YEAR		TOTAL COST	TOTAL ANNUAL COST	DISCOUNT FACTOR	NET PRESENT VALUE
Capital	0	\$	4,906,878	\$ 4,906,878	1.000	\$ 4,906,878
Periodic (five-year report)	5	\$	13,988	\$ 13,988	0.889	\$ 12,442
Periodic (five-year report)	10	\$	13,988	\$ 13,988	0.791	\$ 11,067
Periodic (five-year report)	15	\$	13,988	\$ 13,988	0.704	\$ 9,844
Periodic (five-year report)	20	\$	13,988	\$ 13,988	0.626	\$ 8,756
Periodic (five-year report)	25	\$	13,988	\$ 13,988	0.557	\$ 7,788
Periodic (five-year report)	30	\$	13,988	\$ 13,988	0.495	\$ 6,927
			<u>\$ 4,990,806</u>			<u>\$ 4,963,702</u>
TOTAL NET PRESENT VALUE (rounded to nearest \$1,000)					\$	4,964,000
NOTES:						
Present value analysis uses average discount rates for treasury notes from the week of February 8, 2021 (http://www.federalreserve.gov/releases/h15/).						
AC = acre						
COC = Contaminants of concern						
CUL = MTCA Method A cleanup levels for unrestricted land use						
CY = cubic yards.						
BCY = Bank cubic yards.						
DA = day.						
EA = each.						
ft bgs = feet below ground surface.						
LCY = Loose cubic yards.						
LF = Linear feet.						
LS = lump sum.						
SF = square feet.						

Table 9
Alternative 2D Cost Estimate

Alternative 2D – Consolidate and Contain Non-Hazardous Materials in an Onsite, Above Grade Repository with Offsite Disposal of Hazardous Materials					
<ul style="list-style-type: none"> •Excavate material containing COC greater than CULs; •Transport and dispose of material containing lead concentrations greater than 3,250 mg/kg as a hazardous waste at ChemWaste; •Construct an on-site repository over contaminated materials on the southeast portion of the subject property about 10 acres in size; •Place COC contaminated material in repository; •Install an engineered cap consisting of an HDPE liner, drainage layer, growth media, and native grasses to cover the repository. 					
Assumptions					
1) Soil swell factor is 1.2 BCY/LCY and bulk density is 1.45 TON/LCY across all depths.					
2) Excavation will not require shoring.					
3) Hazardous volume is 6800 LCY.					
4) Non-hazardous COC-contaminated soil volume is 151,200 LCY.					
5) HDPE liner and CDN will be installed over waste					
6) Soil cap will be constructed to be 2' thick.					
8) Confirmation sampling will be conducted after backfill of hazardous soil has been removed.					
Item	Quantity	Unit	Unit Cost	Cost	
Capital Costs					
Planning Documents					
Compliance monitoring work plan preparation	1	LS	\$ 13,680	\$	13,680
Completion sampling work plan preparation	1	LS	\$ 11,270	\$	11,270
Lead stabilization pilot study	1	LS	\$ 18,963	\$	18,963
Soil washing pilot study	1	LS	\$ 18,963	\$	18,963
Site Preparation					
Mobilization/demobilization	1	LS	\$ 279,200	\$	279,200
Temp. erosion and sedimentation control measures	1	LF	\$ 15,000	\$	15,000
Excavation, and consolidation, and on-site disposal with off-site disposal of hazardous waste					
Excavation of hazardous lead contaminated soil	6,800	LCY	\$ 12	\$	81,600
Loading, transport and disposal of stabilized soil at ChemWaste	9,860	TON	\$ 162	\$	1,597,400
Excavation of non-hazardous contaminated soil	151,200	LCY	\$ 12	\$	1,814,400
Placement, compaction, and grading of waste	151,200	LCY	\$ 3	\$	453,600
40-mil HDPE liner installation, welded	445,150	SF	\$ 2	\$	890,300
2' soil cap over liner (purchase and place)	32,974	CY	\$ 22	\$	725,430
Revegetation of capped area					
Native and playfield seed	10	AC	\$ 2,000	\$	20,438
Confirmation sampling field work					
Includes analytical	1	LS	\$ 25,218	\$	25,218
Professional / Technical Services					
Project management	10%	LS	\$ 39,887	\$	39,887
Remedial design	1	LS	\$ 78,160	\$	78,160
Construction management	1	LS	\$ 320,713	\$	320,713
Subtotal				\$	6,404,222
Tax	8.9%			\$	287,788
Total Design, Permitting, Construction				\$	6,692,010

Table 9
Alternative 2D Cost Estimate

Periodic Costs						
Completion Reporting	1	EA	\$	30,616	\$	30,616
Professional/Technical Services						
Five-year reviews and reporting	1	EA	\$	13,988	\$	13,988
PRESENT VALUE ANALYSIS						
Discount rate	2.4%					
Total years	5					
			TOTAL	TOTAL ANNUAL	DISCOUNT	NET PRESENT
COST ITEM	YEAR		COST	COST	FACTOR	VALUE
Capital	0	\$	6,692,010	\$	1.000	6,692,010
Periodic (five-year report)	5	\$	13,988	\$	0.889	12,442
		\$	6,705,998			6,704,452
TOTAL NET PRESENT VALUE (rounded to nearest \$1,000)						\$ 6,705,000
NOTES:						
Present value analysis uses average discount rates for treasury notes from the week of February 8, 2021 (http://www.federalreserve.gov/releases/h15/).						
AC = acre						
COC = Contaminants of concern						
CUL = MTCA Method A cleanup levels for unrestricted land use						
CY = cubic yards.						
BCY = Bank cubic yards.						
DA = day.						
EA = each.						
ft bgs = feet below ground surface.						
LCY = Loose cubic yards.						
LF = Linear feet.						
LS = lump sum.						
SF = square feet.						

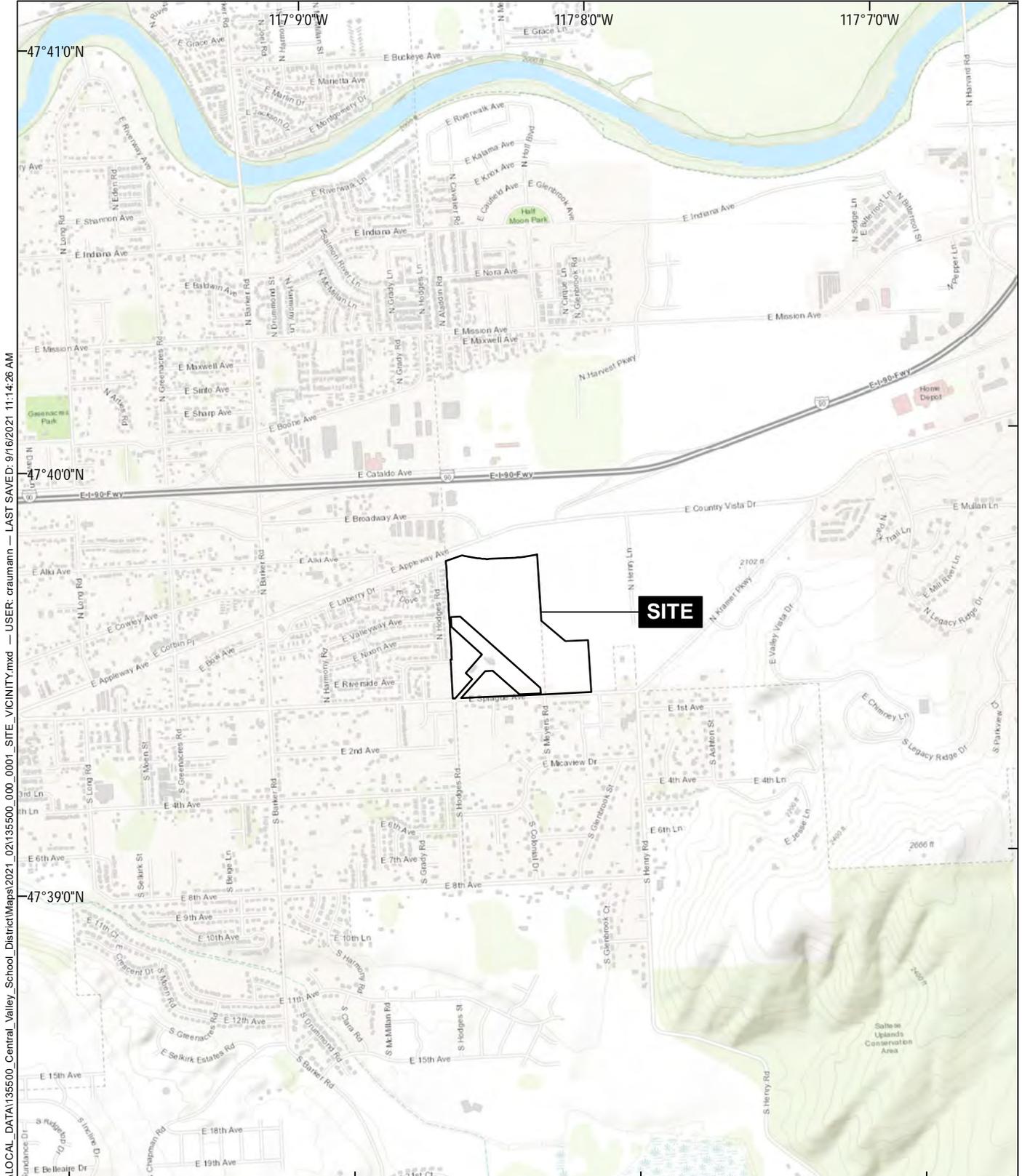
**Table 10 - Alternative Ranking and Disproportionate Cost Analysis
Central Valley School District - Former Spokane Gun Club
Greenacres, Washington**

Alternative		Protectiveness	Permenance	Long-Term Effectiveness	Short-Term Risk	Implementability	Consideration of Public Concerns	Restoration Time Frame	Score	Disproportionate Cost Analysis		Total Score
										Estimated Net Present Value	Cost Ranking	
Alternative 1A – Excavation, Stabilization, and Offsite Disposal	<ul style="list-style-type: none"> •Excavate material containing COC greater than CULs; •Stabilize lead in materials containing lead greater than 3,250 mg/kg; •Transport and dispose of non-hazardous and stabilized material off site at Waste Management's Graham Road Subtitle D landfill in Medical Lake, Washington (Graham Road). 	5	5	5	3	4	2	4	28	\$ 28,334,000	2	30
Alternative 1B – Excavation and Offsite Disposal	<ul style="list-style-type: none"> •Excavate material containing COC greater than CULs; •Transport and dispose of material containing lead concentrations greater than 3,250 mg/kg as a Hazardous Waste at Waste Management's ChemWaste Subtitle C landfill in Arlington, Oregon (ChemWaste); •Transport and dispose of contaminated and material off-site at Graham Road. 	5	5	5	3	4	2	5	29	\$ 29,078,000	1	30
Alternative 2A — Consolidate, Stabilize, and Contain Contaminated Materials in an Onsite, Subgrade Repository	<ul style="list-style-type: none"> •Excavate material containing COC greater than CULs; •Stabilize lead in materials containing lead greater than 3,250 mg/kg; •Construct an on-site repository about 5 acres in size and up to 30 feet deep; •Backfill stabilized material and COC contaminated material in repository; •Install an engineered cap consisting of an HDPE liner, drainage layer, growth media, and native grasses to cover the repository. 	4	4	4	4	4	4	3	27	\$ 6,389,000	5	32

Alternative		Protectiveness	Permanence	Long-Term Effectiveness	Short-Term Risk	Implementability	Consideration of Public Concerns	Restoration Time Frame	Score	Disproportionate Cost Analysis		Total Score
										Estimated Net Present Value	Cost Ranking	
Alternative 2B — Consolidate and Contain Non-Hazardous Materials in an Onsite, Subgrade Repository with Offsite Disposal of Hazardous Materials	<ul style="list-style-type: none"> Excavate material containing COC greater than CULs; Transport and dispose of material containing lead concentrations greater than 3,250 mg/kg as a hazardous waste at ChemWaste; Construct an on-site repository about 5 acres in size and up to 30 feet deep; Place COC contaminated material in repository; Install an engineered cap consisting of an HDPE liner, drainage layer, growth media, and native grasses to cover the repository. 	4	4	4	4	4	3	3	26	\$ 7,312,000	3	29
Alternative 2C – Consolidate, Stabilize, and Contain Contaminated Materials in an Onsite, Above Grade Repository	<ul style="list-style-type: none"> Excavate material containing COC greater than CULs; Stabilize lead in materials containing lead greater than 3,250 mg/kg; Construct an on-site repository over contaminated materials on the southeast portion of the subject property about 10 acres in size; Place stabilized material and COC contaminated material in repository; Install an engineered cap consisting of an HDPE liner, drainage layer, growth media, and native grasses to cover the repository. 	4	4	3	4	3	4	3	25	\$ 4,964,000	6	31
Alternative 2D – Consolidate and Contain Non-Hazardous Materials in an Onsite, Above Grade Repository with Offsite Disposal of Hazardous Materials	<ul style="list-style-type: none"> Excavate material containing COC greater than CULs; Transport and dispose of material containing lead concentrations greater than 3,250 mg/kg as a hazardous waste at ChemWaste; Construct an on-site repository over contaminated materials on the southeast portion of the subject property about 10 acres in size; Place COC contaminated material in repository; Install an engineered cap consisting of an HDPE liner, drainage layer, growth media, and native grasses to cover the repository. 	4	4	3	4	3	3	3	24	\$ 6,705,000	4	28

Notes:

- Alternative performance criteria ranked between 1 and 5 with 1 representing the lowest performance and 5 representing the highest performance.
- Costs for alternatives ranked between 1 and 6, with 6 being the least expensive and 1 being the most expensive.



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MAP SOURCE: ESRI
 SITE COORDINATES: 47°39'34\"/>



**SPOKANE GUN CLUB
 GREENACRES, WASHINGTON**

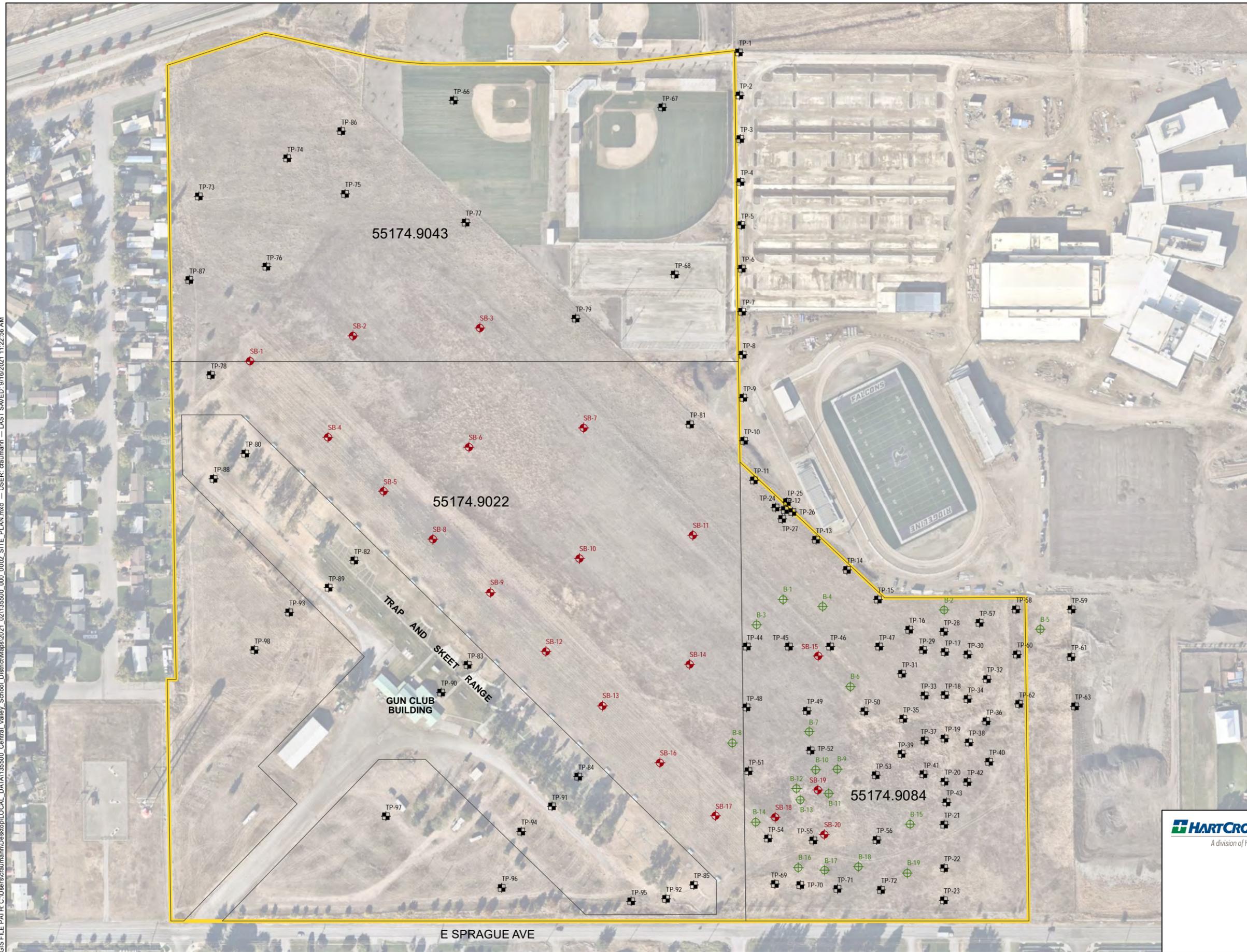
A division of Haley & Aldrich

SITE VICINITY

APPROXIMATE SCALE: 1 IN = 2000 FT
 SEPTEMBER 2021

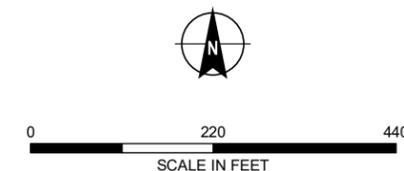
FIGURE 1

C:\GIS\FILE PATH\H:\C:\Users\rcraumann\Desktop\LOCAL_DATA\1355500_Central_Valley_School_District\Maps\2021_02\1355500_000_0002_SITE_PLAN.mxd — USER: rcraumann — LAST SAVED: 9/16/2021 11:22:56 AM



- LEGEND**
- PUSH PROBE BORING
 - SONIC BORING
 - TEST PIT
 - PARCEL BOUNDARY
 - SITE

NOTE
 AERIAL IMAGERY SOURCE: NEARMAP,
 30 SEPTEMBER 2020



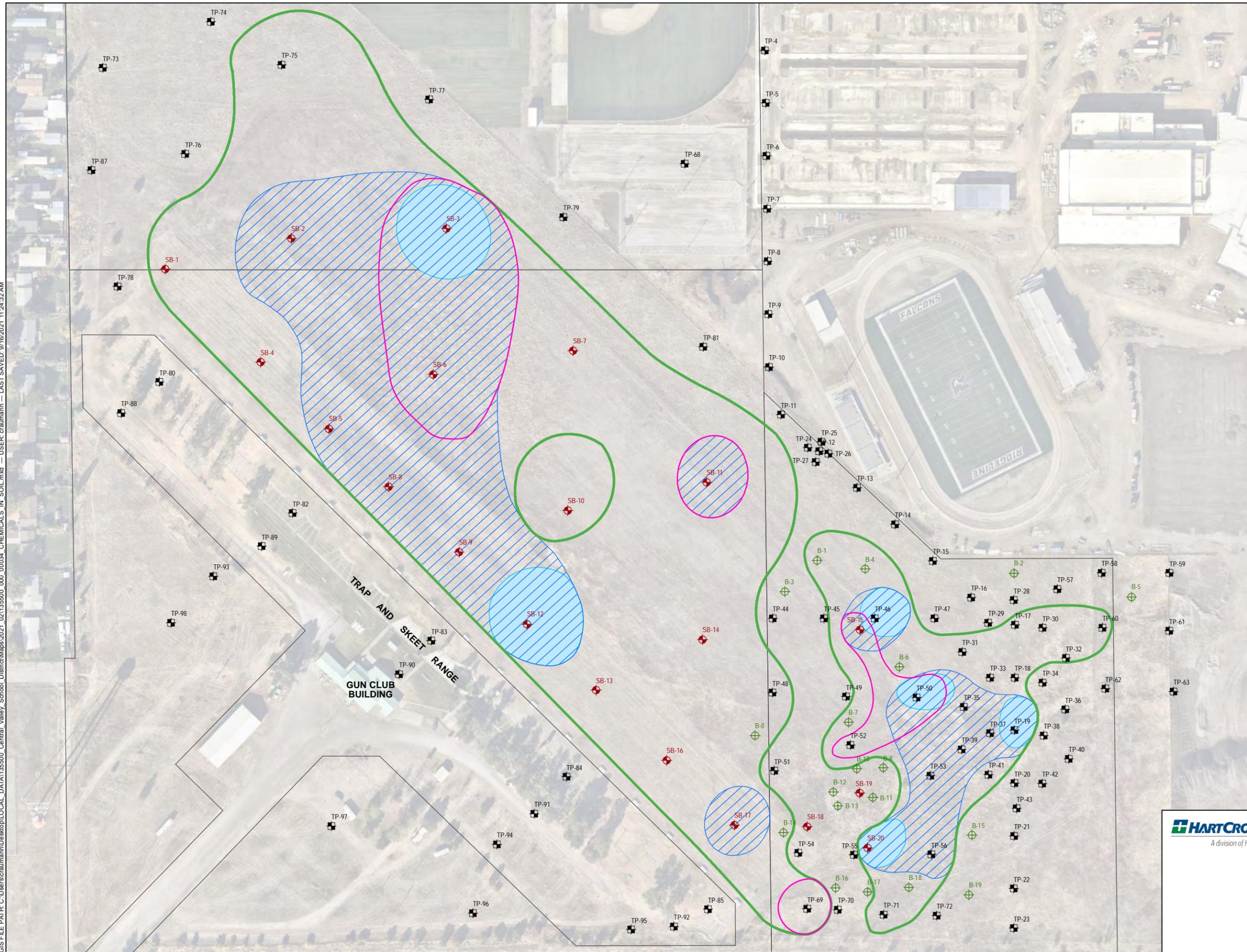
HARTCROWSER SPOKANE GUN CLUB
 GREENACRES, WASHINGTON
A division of Haley & Aldrich

SITE PLAN

SEPTEMBER 2021

FIGURE 2

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LEGEND

- PUSH PROBE BORING
- SONIC BORING
- TEST PIT

PARCEL BOUNDARY

LEAD IN SOIL (mg/kg)

- 0 TO 1 FT BGS, >3,250.1 (HAZARDOUS)
- 0 TO 1 FT BGS, 250.01-3250.00 (NON-HAZARDOUS)
- 1 TO 2 FT BGS, 250.01-3250.00 (NON-HAZARDOUS)
- 2 TO 3 FT BGS, 250.01-3250.00 (NON-HAZARDOUS)

NOTES

1. FT BGS = FEET BELOW GROUND SURFACE
2. AERIAL IMAGERY SOURCE: NEARMAP, 30 SEPTEMBER 2020

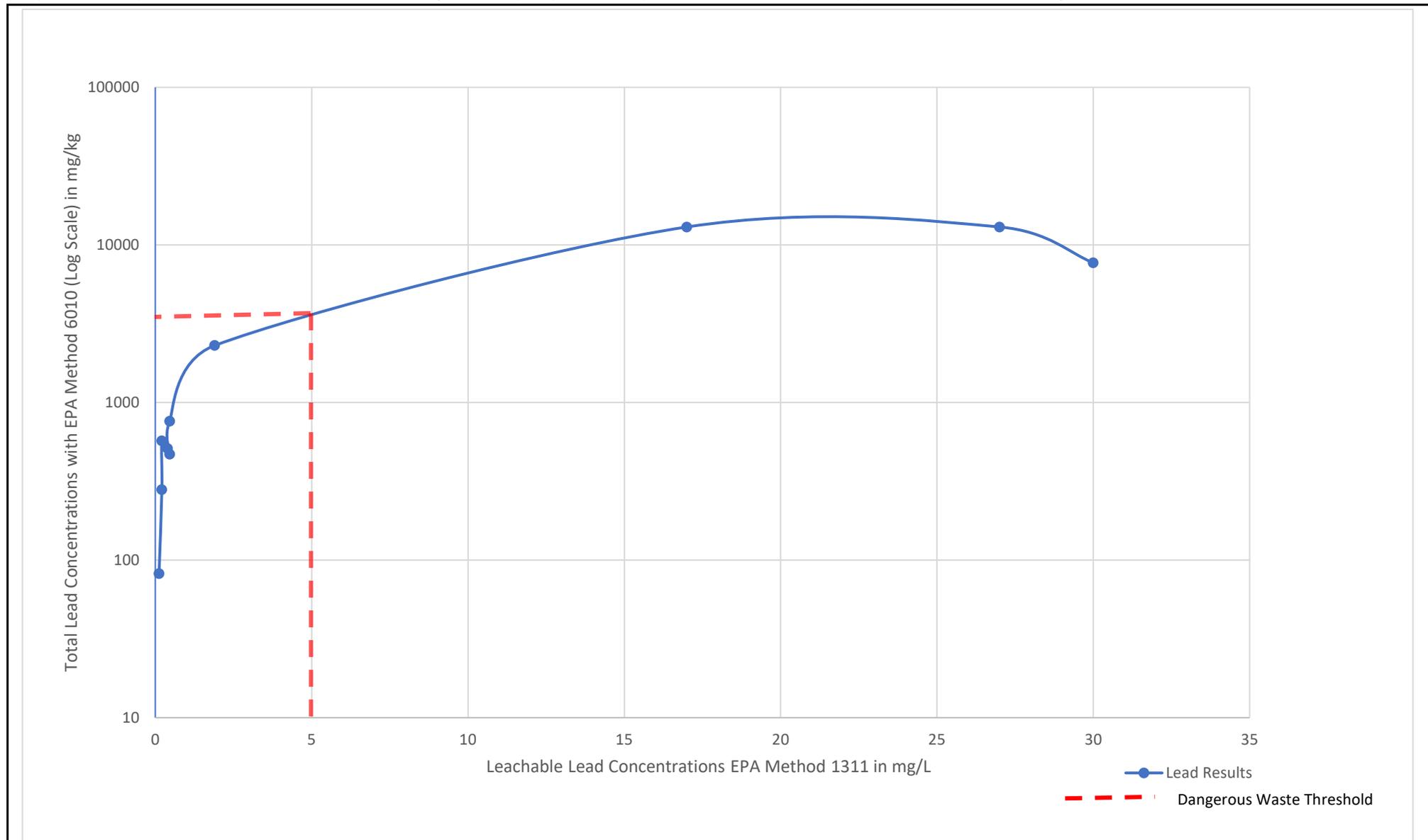


HARTCROWSER SPOKANE GUN CLUB
GREENACRES, WASHINGTON
A division of Haley & Aldrich

LEAD IN SOIL

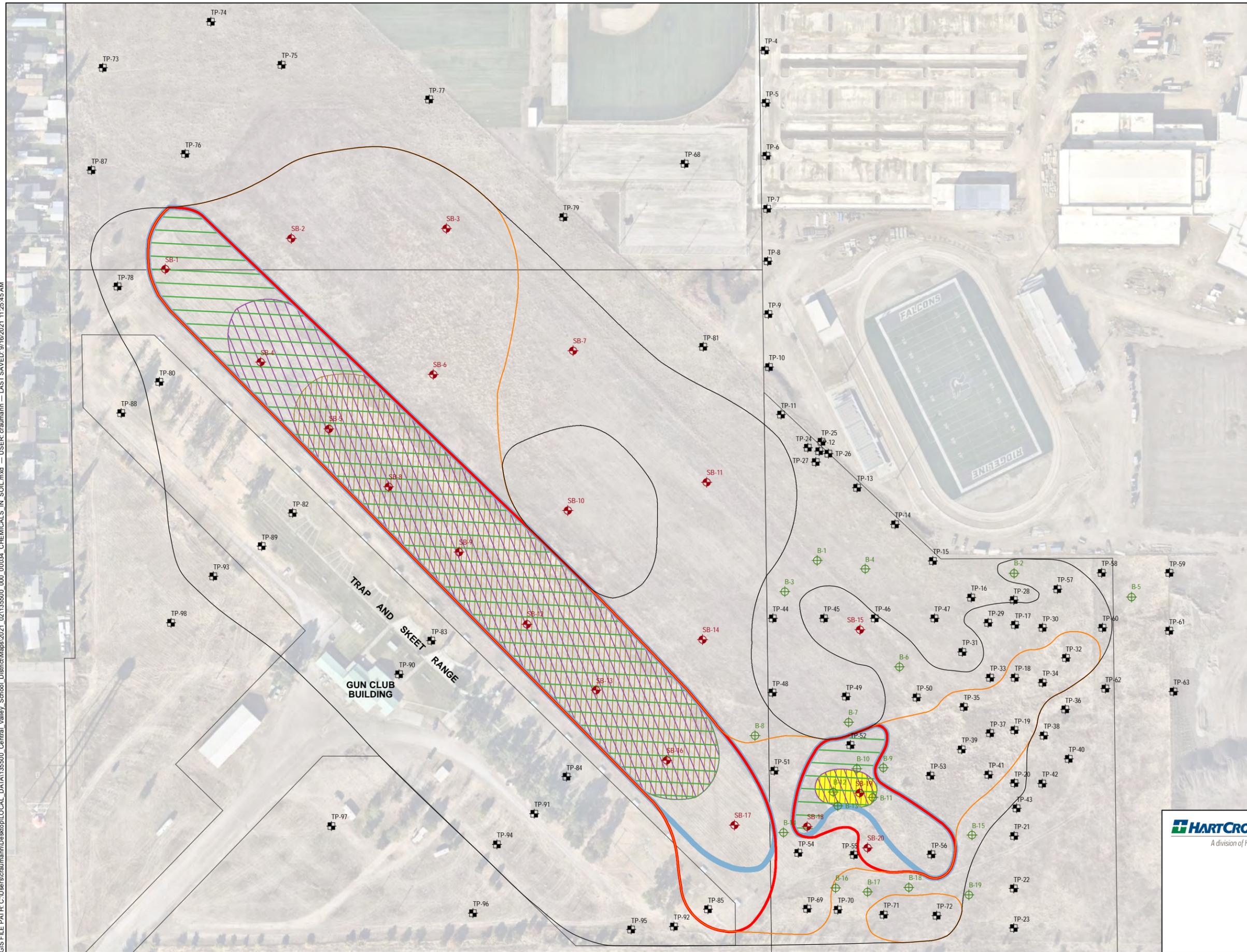
SEPTEMBER 2021

FIGURE 3



SPOKANE GUN CLUB GREENACRES, WASHINGTON	
Total Lead Versus Leachable Lead	
150-014-004	September 2021
 <small>A division of Haley & Aldrich</small>	FIGURE 4

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LEGEND

- PUSH PROBE BORING
- SONIC BORING
- TEST PIT

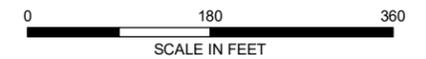
PARCEL BOUNDARY

PAHs >0.1 mg/kg IN SOIL (NON-HAZARDOUS)

- 0 TO 1 FT BGS
- 1 TO 2 FT BGS
- 2 TO 3 FT BGS
- 3 TO 4 FT BGS
- 4 TO 5 FT BGS
- 5 TO 6 FT BGS
- 6 TO 7 FT BGS
- 7 TO 10 FT BGS

NOTES

1. FT BGS = FEET BELOW GROUND SURFACE
2. AERIAL IMAGERY SOURCE: NEARMAP, 30 SEPTEMBER 2020



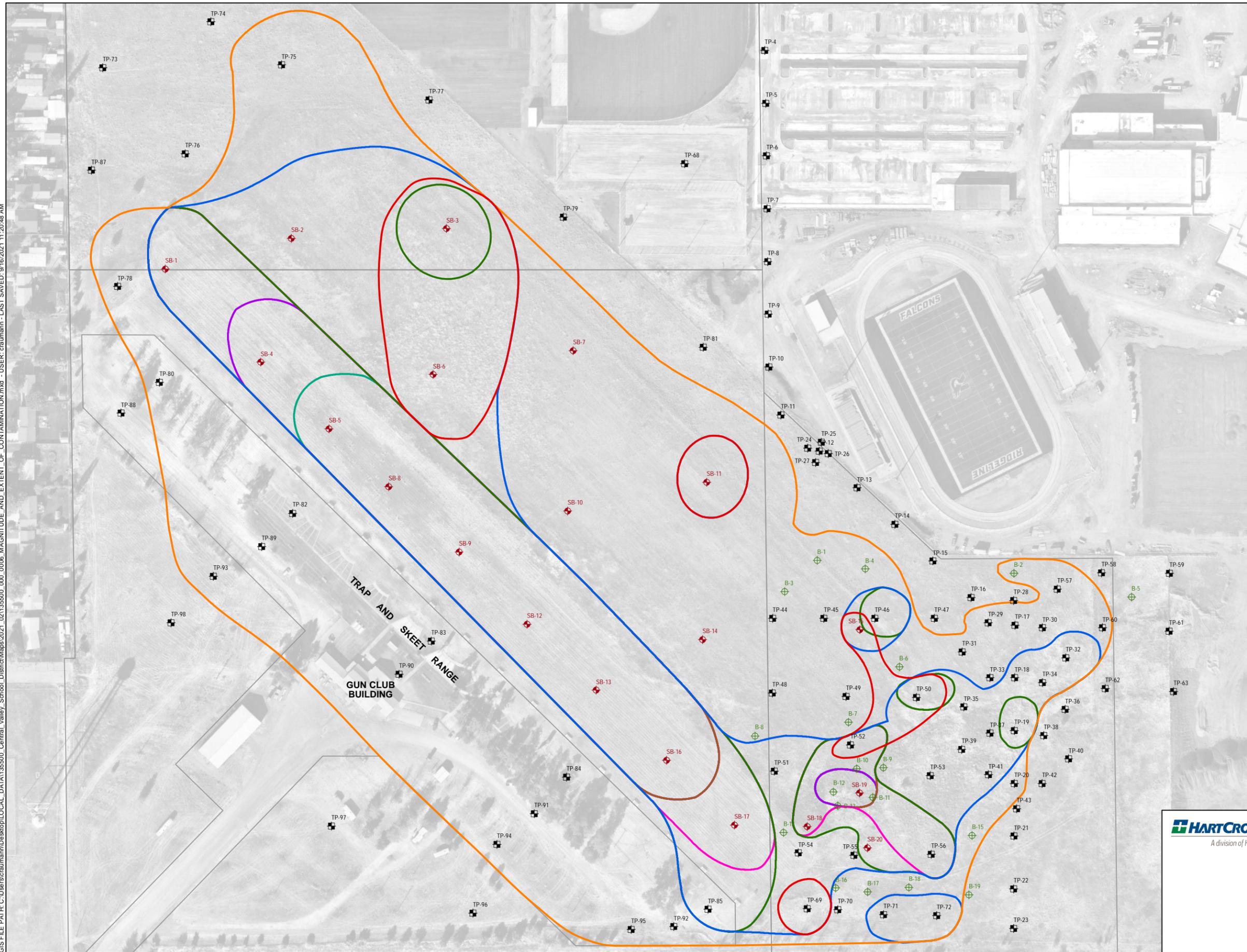
HARTCROWSER SPOKANE GUN CLUB
GREENACRES, WASHINGTON
A division of Haley & Aldrich

PAHs IN SOIL

SEPTEMBER 2021

FIGURE 5

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LEGEND

- PUSH PROBE BORING
- SONIC BORING
- TEST PIT
- 0 TO 1 FT BGS - HAZARDOUS
- 0 TO 1 FT BGS - NON-HAZARDOUS
- 1 TO 2 FT BGS - NON-HAZARDOUS
- 2 TO 3 FT BGS - NON-HAZARDOUS
- 3 TO 4 FT BGS - NON-HAZARDOUS
- 4 TO 5 FT BGS - NON-HAZARDOUS
- 5 TO 6 FT BGS - NON-HAZARDOUS
- 6 TO 7 FT BGS - NON-HAZARDOUS
- 7 TO 10 FT BGS - NON-HAZARDOUS
- PARCEL BOUNDARY

NOTES

1. FT BGS = FEET BELOW GROUND SURFACE
2. AERIAL IMAGERY SOURCE: NEARMAP, 30 SEP 2020



0 180 360
SCALE IN FEET



SPOKANE GUN CLUB
GREENACRES, WASHINGTON

**MAGNITUDE AND EXTENT
OF CONTAMINATION**

SEPTEMBER 2021

FIGURE 6

APPENDIX A

Well Logs and Exploration Logs

APPENDIX A INDEX

Well Logs:

Gun Club Well

Municipal Well 3-A

Municipal Well 3-C

Exploration Logs:

Test Pits - August 2018 to March 2021

Direct Push Boreholes – April 2019

Sonic Boreholes – October 2020

The Department of Ecology does NOT Warranty the Data and/or the Information on this Well Report.

STATE OF WASHINGTON
DEPARTMENT OF CONSERVATION
AND DEVELOPMENT

WELL LOG

No. Appl. 1244

Date December 30, 1949

Cart. 617-A

Record by Oliver F. Zinkgraf

Source Driller's Record

Location: State of WASHINGTON

County Spokane

Area _____

Map _____

SW 1/4 SE 1/4 sec. 17 T. 25 N. R. 45 E.

DIAGRAM OF SECTION

Drilling Co. Oliver F. Zinkgraf

Address E. 1606 Sharp Ave., Spokane

Method of Drilling _____

Date Jan. 10, 1950

Owner Spokane Gun Club

Address Box 789, Spokane

Land surface, datum _____ ft. above
below

CORRE- LATION	MATERIAL	THICKNESS (feet)	DEPTH (feet)
------------------	----------	---------------------	-----------------

(Transcribe driller's terminology literally but paraphrase as necessary in parentheses. If material water-bearing, so state and record static level if reported. Give depths in feet below land surface datum unless otherwise indicated. Correlate with stratigraphic columns. If driller's log of materials, list all casings, perforations, screens, etc.)

	Gravel & soil	3	3
	Coarse gravel	11	14
	Gravel & big boulders	17	31
	Coarse gravel, sand & clay	45	76
	Big boulders	5	81
	Boulders, gravel & white clay	17	98
	Fine sand & boulders	62	160
	Fine to coarse sand & clay	42	202
	Fine sand & clay	14	216
	Coarse sand & fine gravel	13	229
	Fine sand & little clay	29	258
	Coarse sand, fine gravel, few boulders	29	287
	Pump Test:		
	Dm: 287' x 8"		
	SWL: 98'		

Turn up

(over)

Sheet

of

pages

STATE OF WASHINGTON
DEPARTMENT OF CONSERVATION
AND DEVELOPMENT Appl. #7172
 No. Permit #6785

Well 3-A

WELL LOG

Date April 15, 1965

Record by Driller

Source Driller's Record

Location: State of WASHINGTON
 County Spokane
 Area N 22°15' W, 410.2' from S 1/4
 Map corner Sec. 17
 SE 1/4 SW 1/4 sec. 17 T25 N., R45 E. E. W.

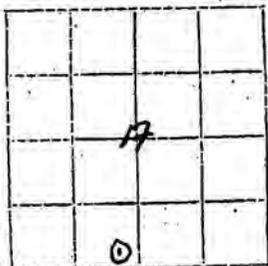


Diagram of Section

Drilling Co. Holman Drilling Corporation
 Address 3410 E. 9th Ave., Spokane, Washington

Method of Drilling Cable Date Aug 18, 1964

Owner U. S. Bureau of Reclamation

Address Box 937, Boise, Idaho

Land surface, datum ft. above/below

CORRELATION	MATERIAL	THICKNESS (feet)	DEPTH (feet)
-------------	----------	------------------	--------------

(Transcribe driller's terminology literally but paraphrase as necessary, in parentheses. If material water-bearing, so state and record static level if reported. Give depths in feet below land-surface datum unless otherwise indicated. Correlate with stratigraphic column, if feasible. Following log of materials, list all casings, perforations, screens, etc.)

	Domestic, irrigation, industrial and municipal well		
	Boulders	10	26
	Boulders and gravel 6" minus	26	51
	Gravel 3" minus	51	110
	Gravel 5" minus	110	130
	Gravel 3" minus	130	145
	Gravel 1" minus	145	150
	Gravel and brown clay	150	155
	Gravel 2" minus	155	181
	Cemented gravel 2" minus	181	207
	Casing: 16" from 0 to 157'		
	Screened from 157 to 197'		
	Surface sealed with cement grout		
	SWL: 94.2' on August 18, 1964		

Turn up

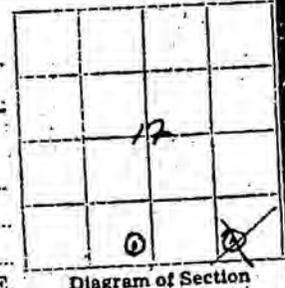
Sheet.....of.....sheets

The Department of Ecology does NOT Warranty the Data and/or the Information on this Well Report

STATE OF WASHINGTON
 DEPARTMENT OF CONSERVATION
 AND DEVELOPMENT Appl. #7172
 Permit #6785

Well 3-C
 WELL LOG

Date April 15, 1965
 Record by Driller
 Source Driller's Record



Location: State of WASHINGTON
 County Spokane
 Area N 33°30' W, 276.0' from S 1/4
 Map Corner Sec. 17
 SE 1/4 SW 1/4 sec. 17 T. 25 N., R. 45 E. E. W.

Drilling Co. Holman Drilling Corporation
 Address 3410 E. 9th Ave., Spokane, Washington
 Method of Drilling Cable Date July 13, 1964
 Owner U. S. Bureau of Reclamation
 Address Box 937, Boise, Idaho
 Land surface, datum ft. above below

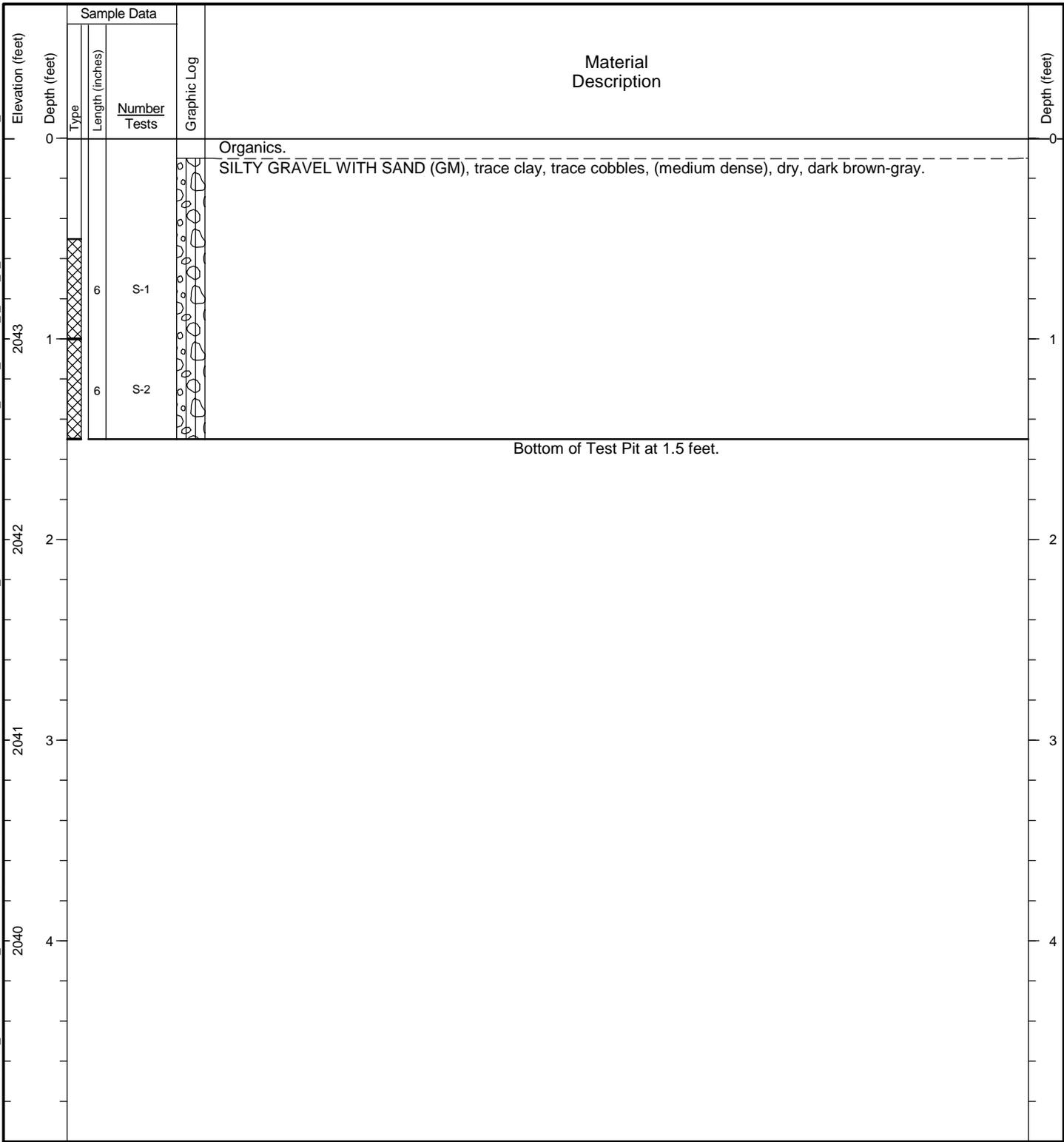
CORRELATION	MATERIAL	THICKNESS (feet)	DEPTH (feet)
-------------	----------	------------------	--------------

(Transcribe driller's terminology literally but paraphrase as necessary; in parentheses. If material water-bearing, so state and record static level if reported. Give depths in feet below land-surface datum unless otherwise indicated. Correlate with stratigraphic column if feasible. Following log of materials, list all casings, perforations, screens, etc.)

MATERIAL	THICKNESS (feet)	DEPTH (feet)
Domestic, irrigation, industrial and municipal well		
Gravel 1 to 6"	0	24
Gravel 1 to 4"	24	57
Gravel 1 to 3"	57	62
Gravel 1/2 to 1 1/2"	62	75
Gravel 1/2 to 3"	75	86
Gravel 1 1/2" minus	86	104
Gravel 1 to 4"	104	140
Gravel 6" minus	140	155
Gravel 1 1/2" minus	155	167
Gravel 3" minus	167	185
Gravel 6" minus	185	203
Gravel 2" minus	203	215
Gravel and brown clay	215	225
Gravel 1" minus	225	235

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 (WGS 84) Total Depth: 1.5 feet Depth to Seepage: Not Encountered
 Ground Surface Elevation: 2,044.00 feet (NAVD 88)
 Comments: _____

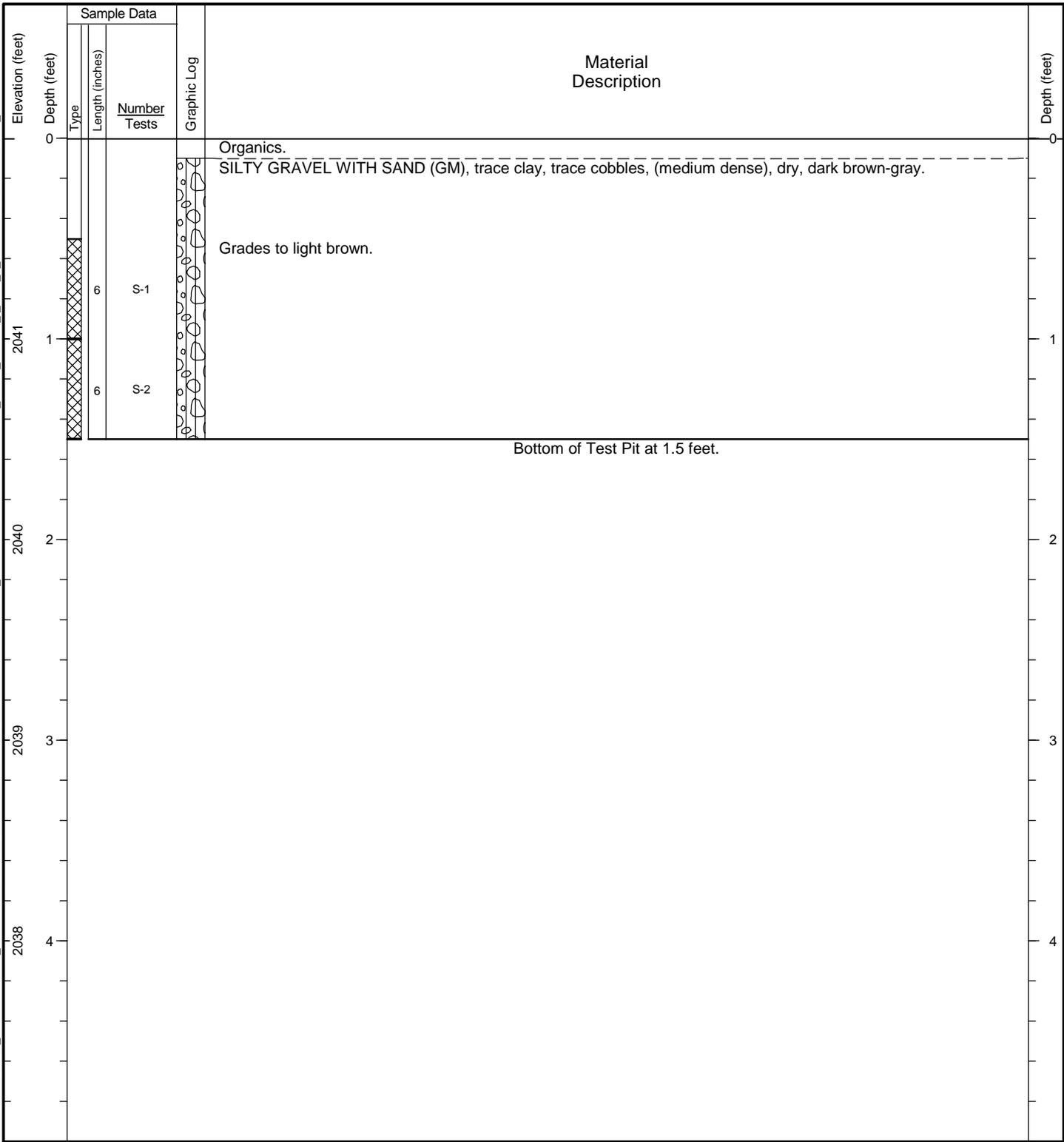
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General Notes:
 1. Refer to Figure A-1 for explanation of descriptions and symbols.
 2. Material stratum lines are interpretive and actual changes may be gradual. Solid lines indicate distinct contacts and dashed lines indicate gradual or approximate contacts.
 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.
 5. Location and ground surface elevations are approximate.

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: 47.662213 Long: -117.137572 (WGS 84) Total Depth: 1.5 feet Depth to Seepage: Not Encountered
 Ground Surface Elevation: 2,042.00 feet (NAVD 88)
 Comments: _____

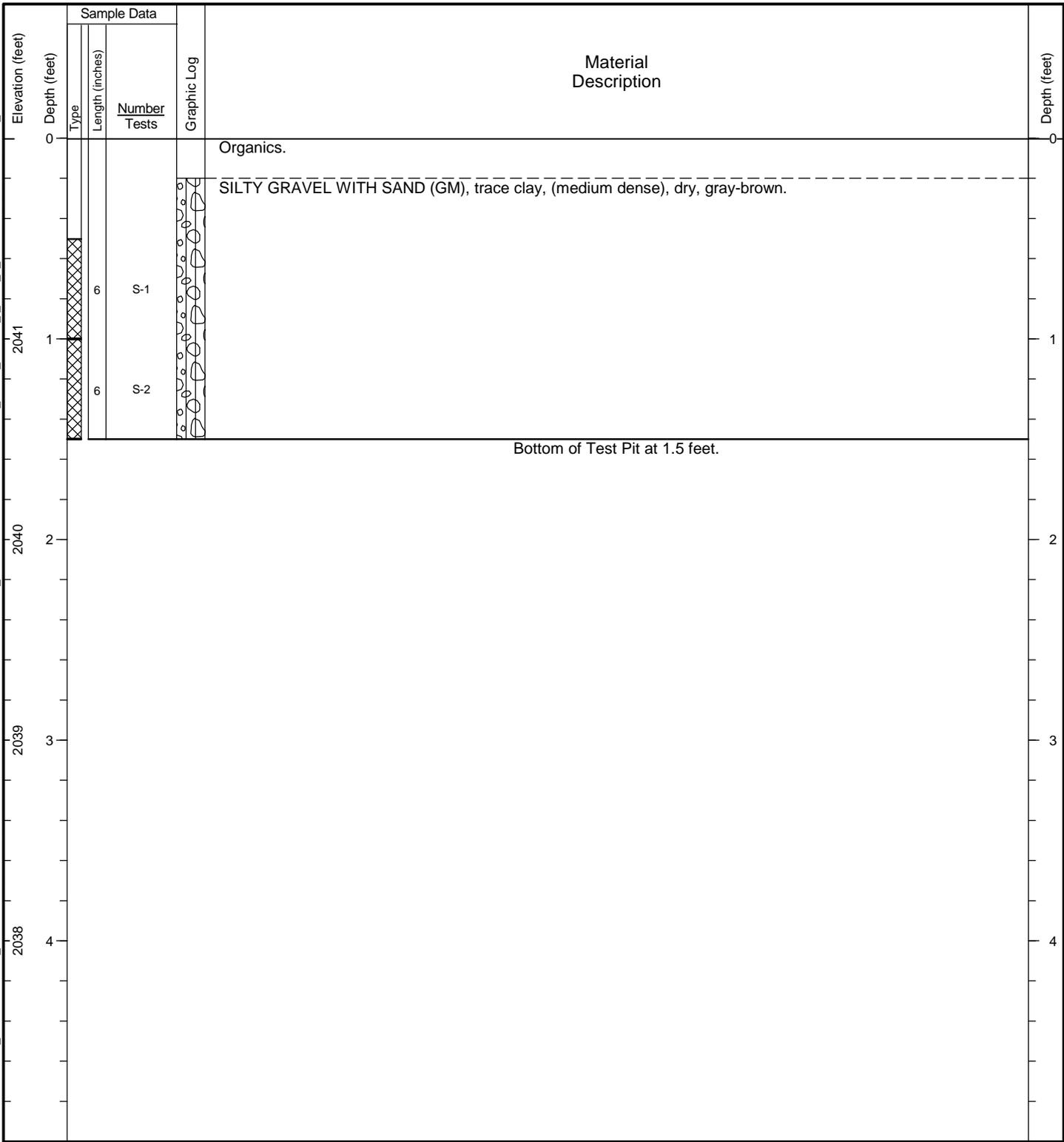
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Date Started: 8/2/18 Date Completed: 8/2/18 Contractor/Crew: _____
 Logged by: W. McDonald Checked by: J. Haney Rig Model/Type: Bobcat 323 / Mini Excavator
 Location: Lat: 47.661939 Long: -117.137567 (WGS 84) Total Depth: 1.5 feet Depth to Seepage: Not Encountered
 Ground Surface Elevation: 2,042.00 feet (NAVD 88)
 Comments: _____

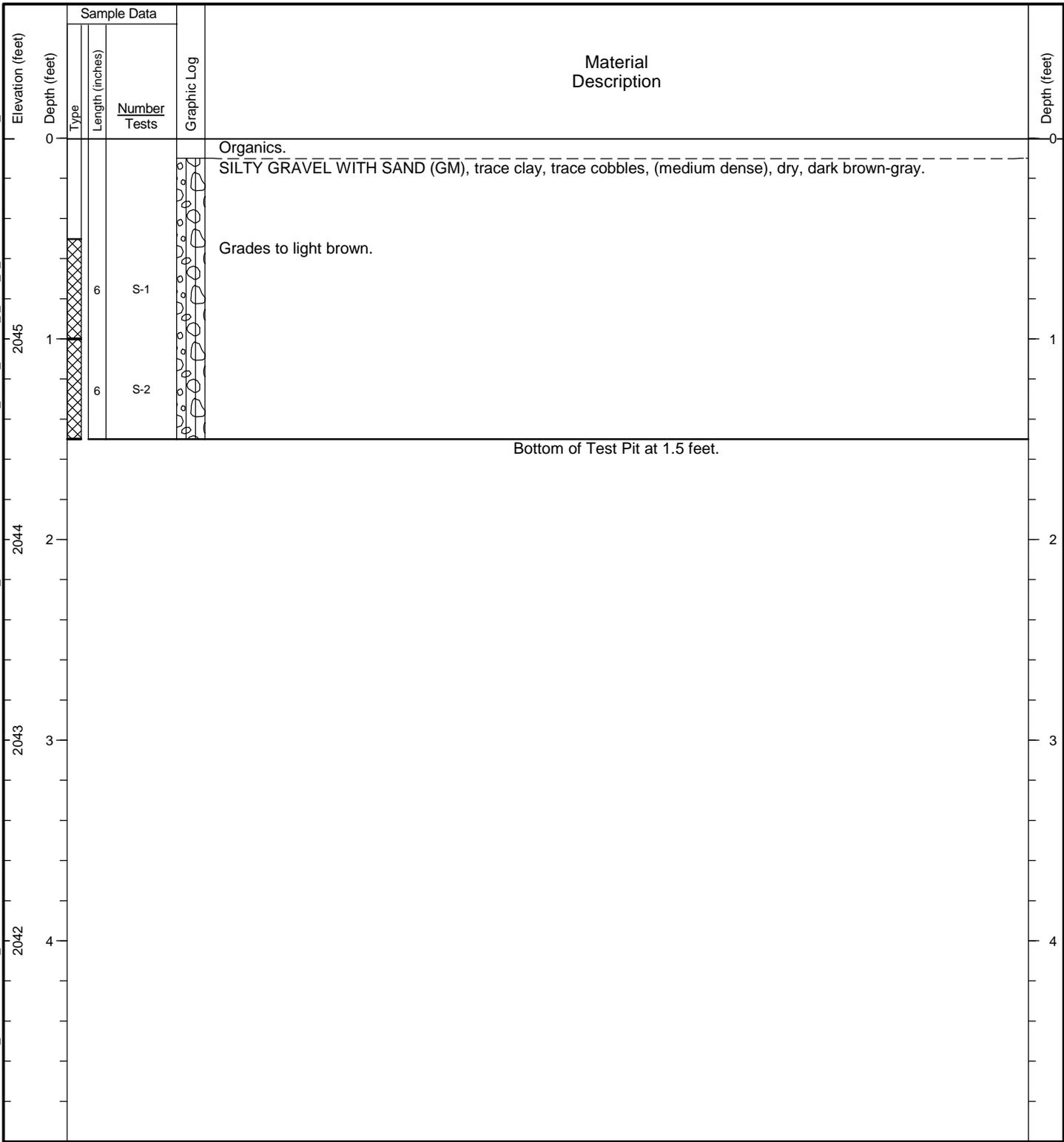
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Date Started: 8/2/18 Date Completed: 8/2/18 Contractor/Crew: _____
 Logged by: W. McDonald Checked by: J. Haney Rig Model/Type: Bobcat 323 / Mini Excavator
 Location: Lat: 47.661665 Long: -117.137562 (WGS 84) Total Depth: 1.5 feet Depth to Seepage: Not Encountered
 Ground Surface Elevation: 2,046.00 feet (NAVD 88)
 Comments: _____

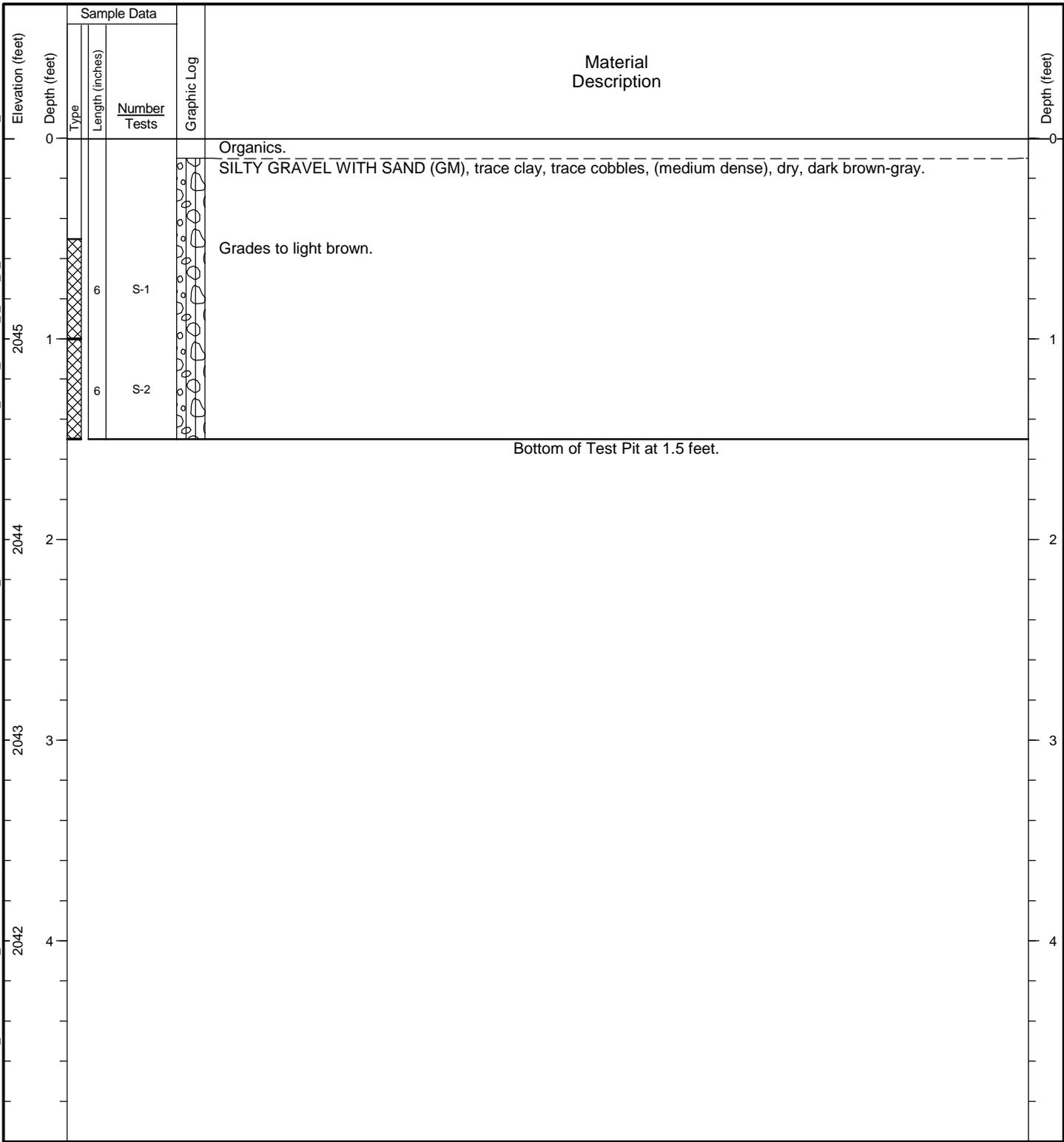
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Date Started: 8/2/18 Date Completed: 8/2/18 Contractor/Crew: _____
 Logged by: W. McDonald Checked by: J. Haney Rig Model/Type: Bobcat 323 / Mini Excavator
 Location: Lat: 47.661390 Long: -117.137557 (WGS 84) Total Depth: 1.5 feet Depth to Seepage: Not Encountered
 Ground Surface Elevation: 2,046.00 feet (NAVD 88)
 Comments: _____

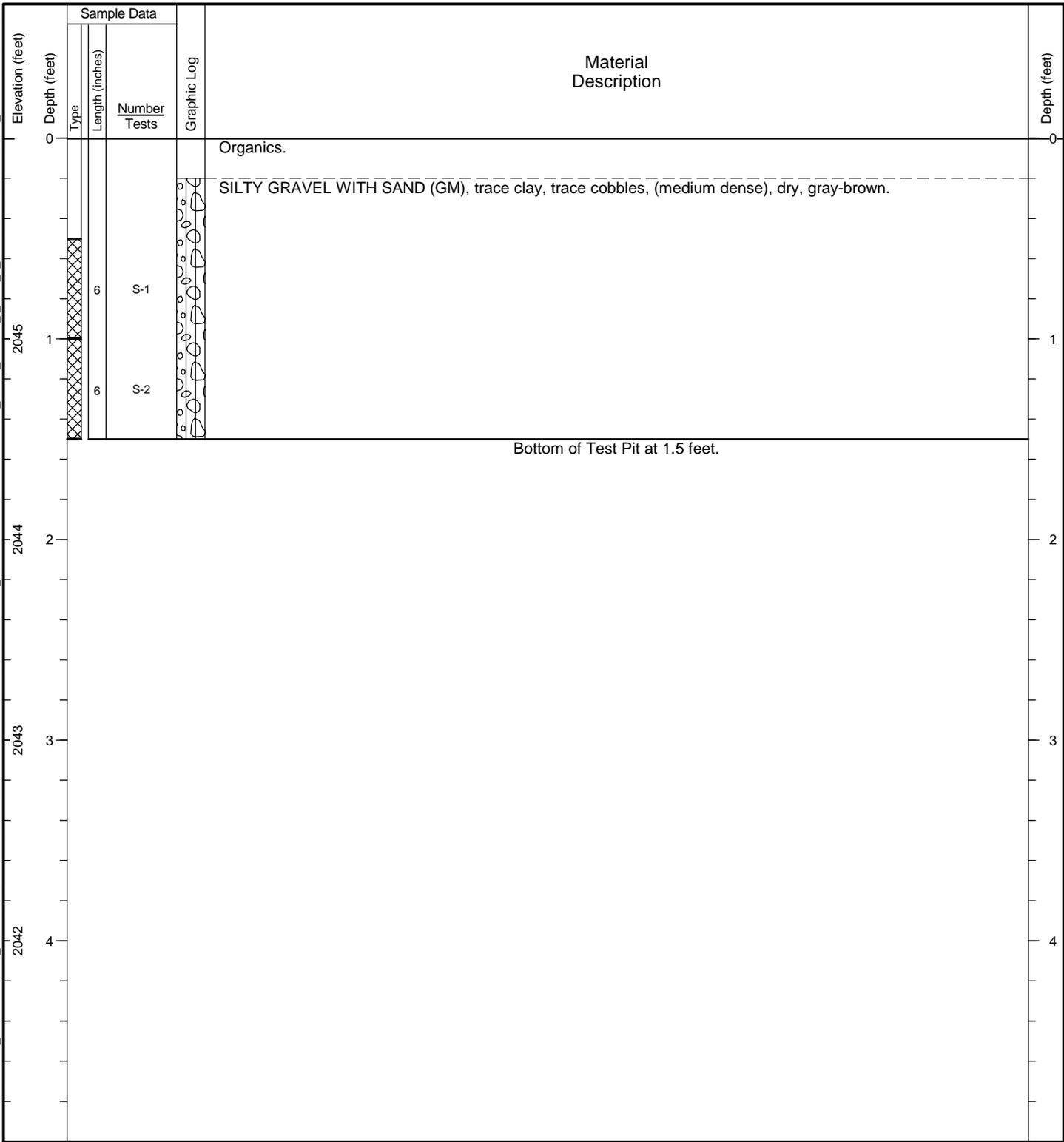
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Date Started: 8/2/18 Date Completed: 8/2/18 Contractor/Crew: _____
 Logged by: W. McDonald Checked by: J. Haney Rig Model/Type: Bobcat 323 / Mini Excavator
 Location: Lat: 47.661116 Long: -117.137552 (WGS 84) Total Depth: 1.5 feet Depth to Seepage: Not Encountered
 Ground Surface Elevation: 2,046.00 feet (NAVD 88)
 Comments: _____

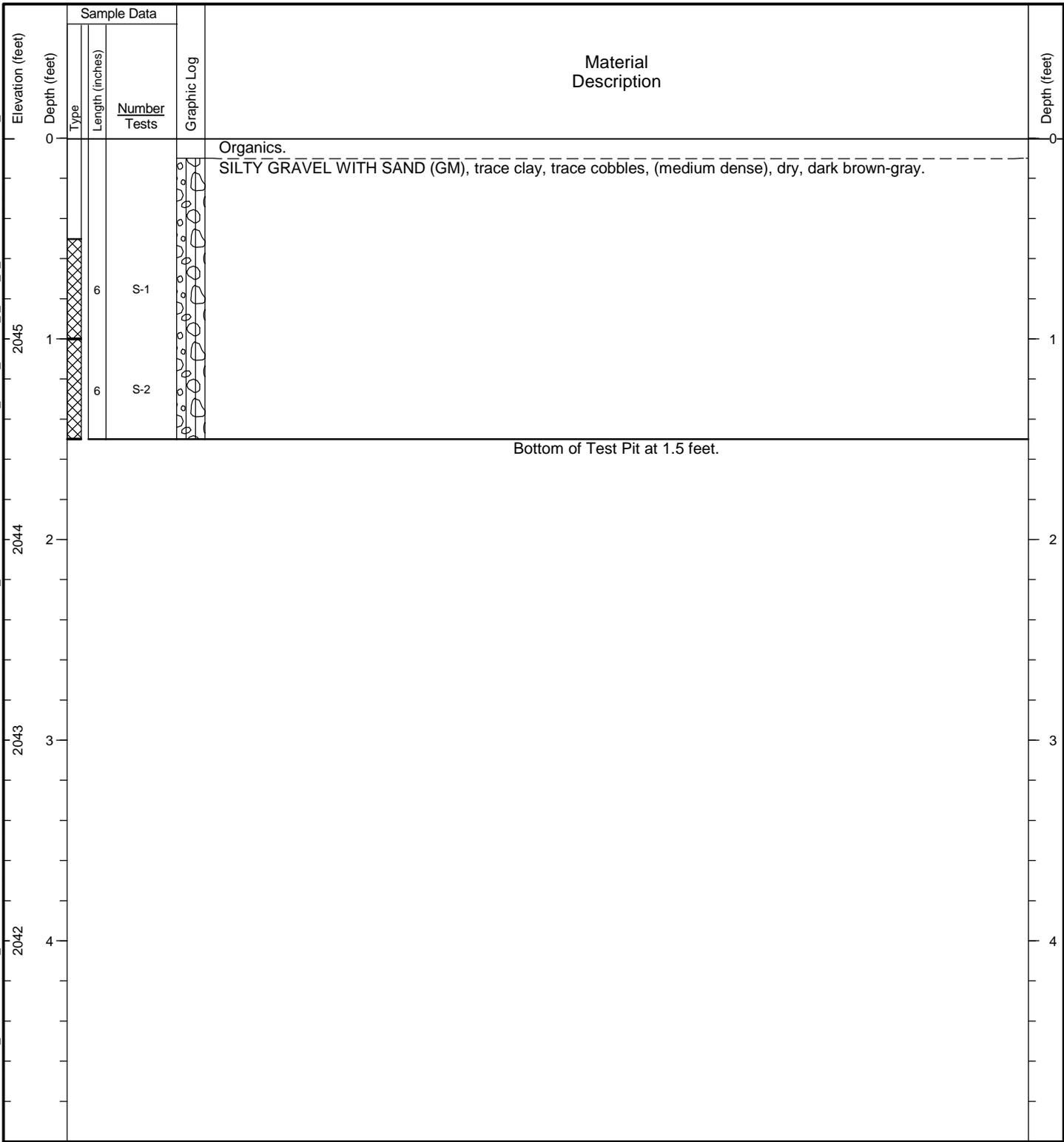
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 5. Location and ground surface elevations are approximate.

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 (WGS 84) Total Depth: 1.5 feet Depth to Seepage: Not Encountered
 Ground Surface Elevation: 2,046.00 feet (NAVD 88)
 Comments: _____

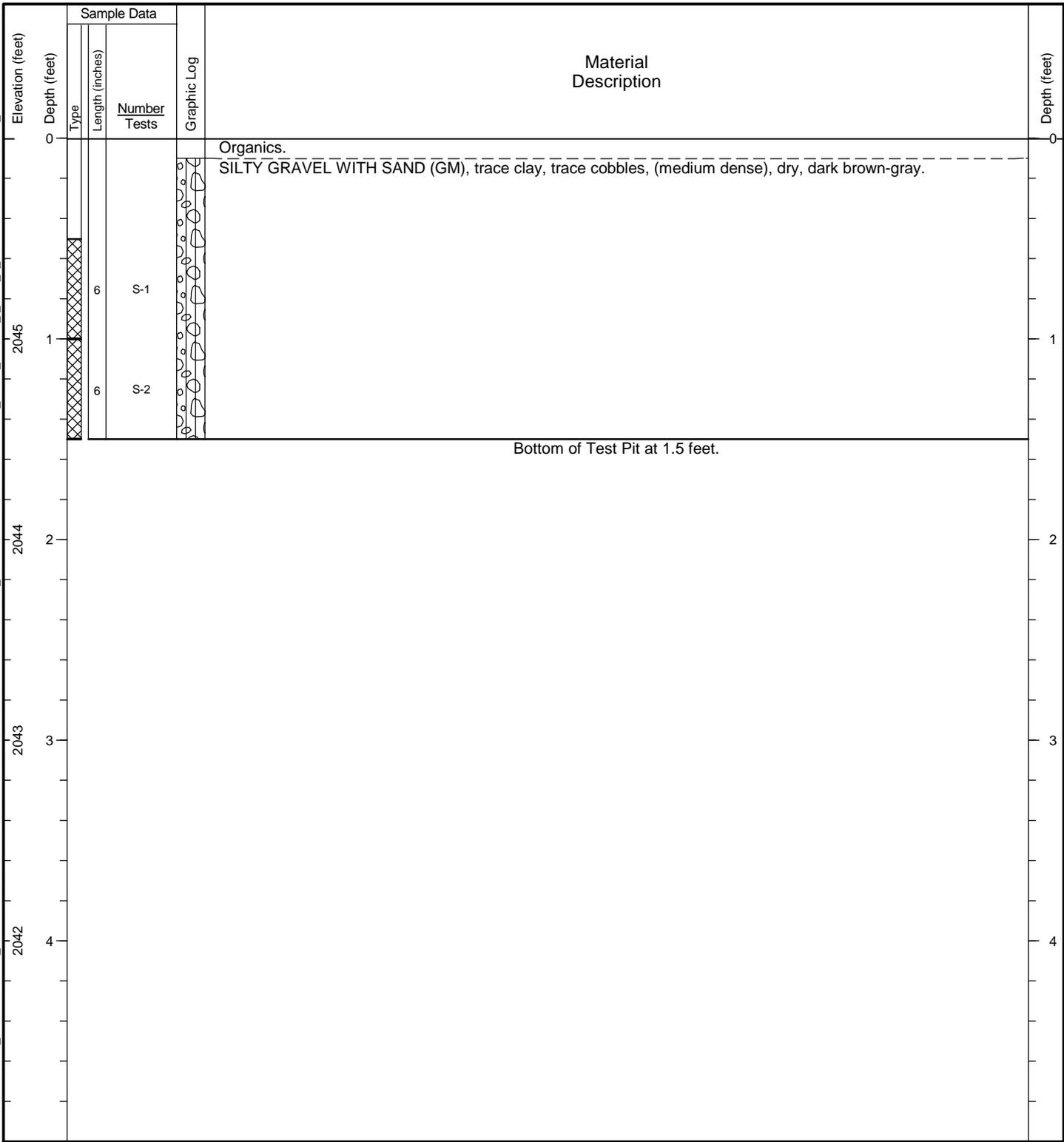
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Date Started: 8/2/18 Date Completed: 8/2/18 Contractor/Crew: _____
 Logged by: W. McDonald Checked by: J. Haney Rig Model/Type: Bobcat 323 / Mini Excavator
 Location: Lat: 47.660568 Long: -117.137543 (WGS 84) Total Depth: 1.5 feet Depth to Seepage: Not Encountered
 Ground Surface Elevation: 2,046.00 feet (NAVD 88)
 Comments: _____

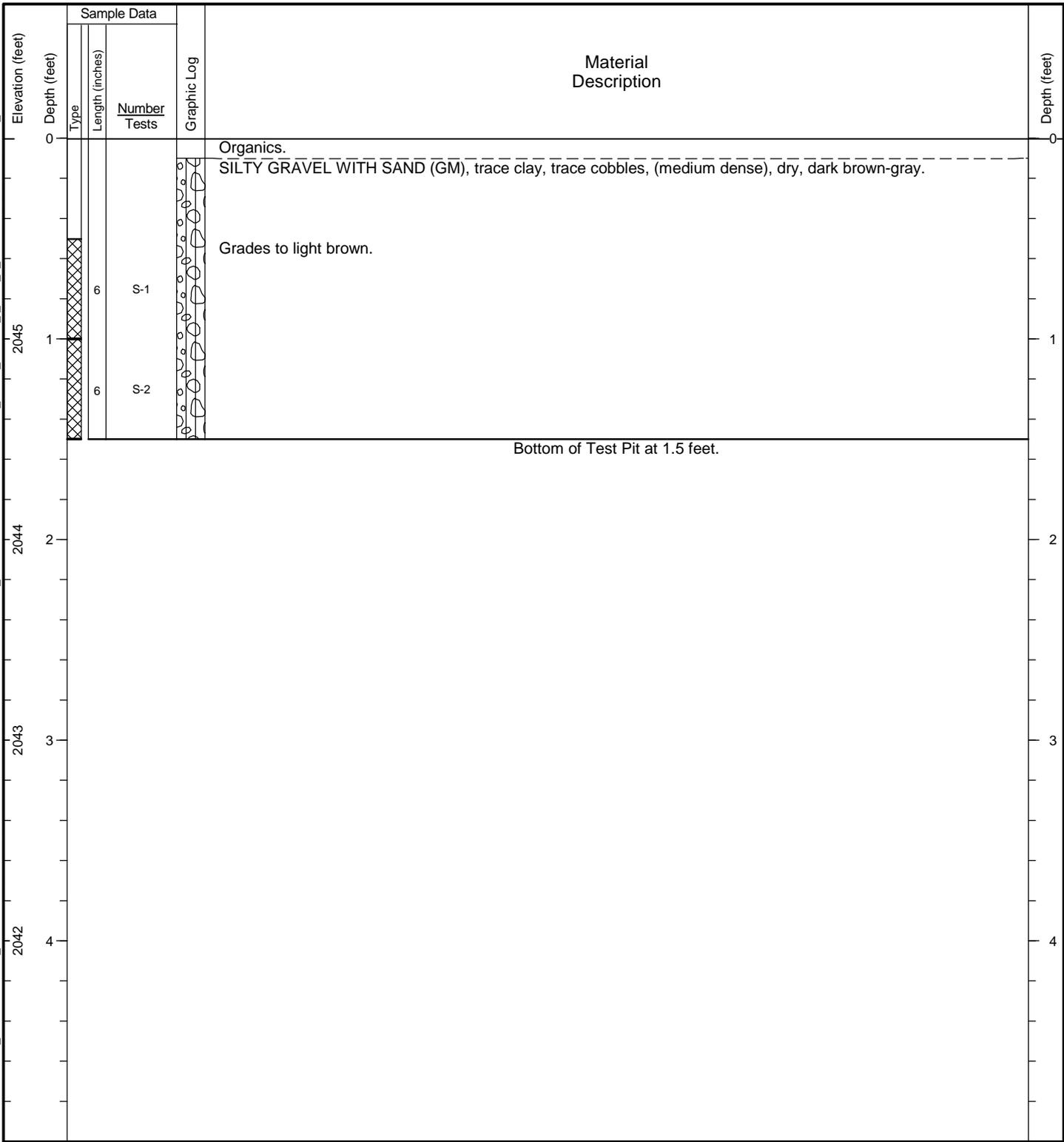
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Date Started: 8/2/18 Date Completed: 8/2/18 Contractor/Crew: _____
 Logged by: W. McDonald Checked by: J. Haney Rig Model/Type: Bobcat 323 / Mini Excavator
 Location: Lat: 47.660294 Long: -117.137538 (WGS 84) Total Depth: 1.5 feet Depth to Seepage: Not Encountered
 Ground Surface Elevation: 2,046.00 feet (NAVD 88)
 Comments: _____

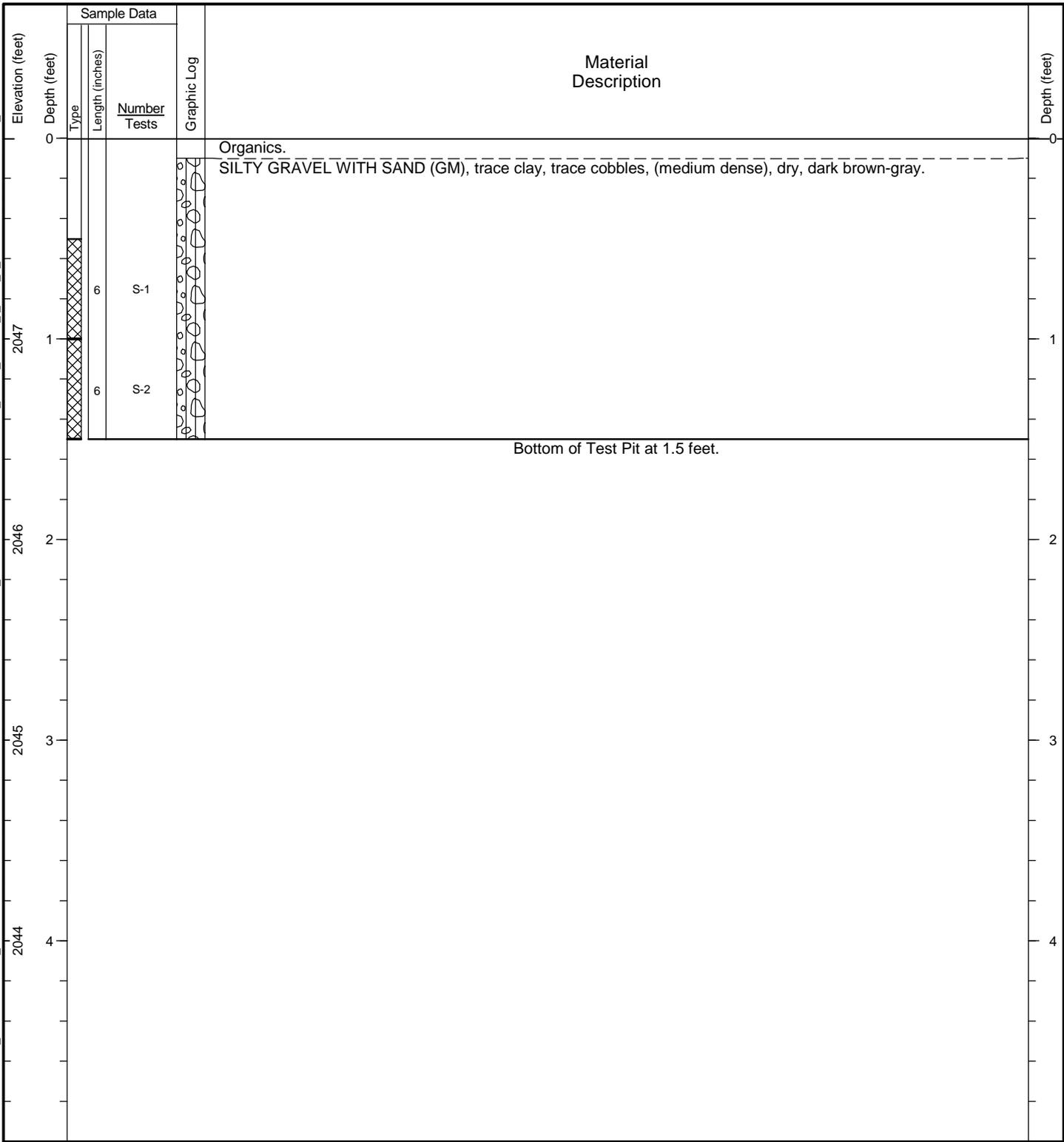
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Date Started: 8/2/18 Date Completed: 8/2/18 Contractor/Crew: _____
 Logged by: W. McDonald Checked by: J. Haney Rig Model/Type: Bobcat 323 / Mini Excavator
 Location: Lat: 47.660020 Long: -117.137533 (WGS 84) Total Depth: 1.5 feet Depth to Seepage: Not Encountered
 Ground Surface Elevation: 2,048.00 feet (NAVD 88)
 Comments: _____

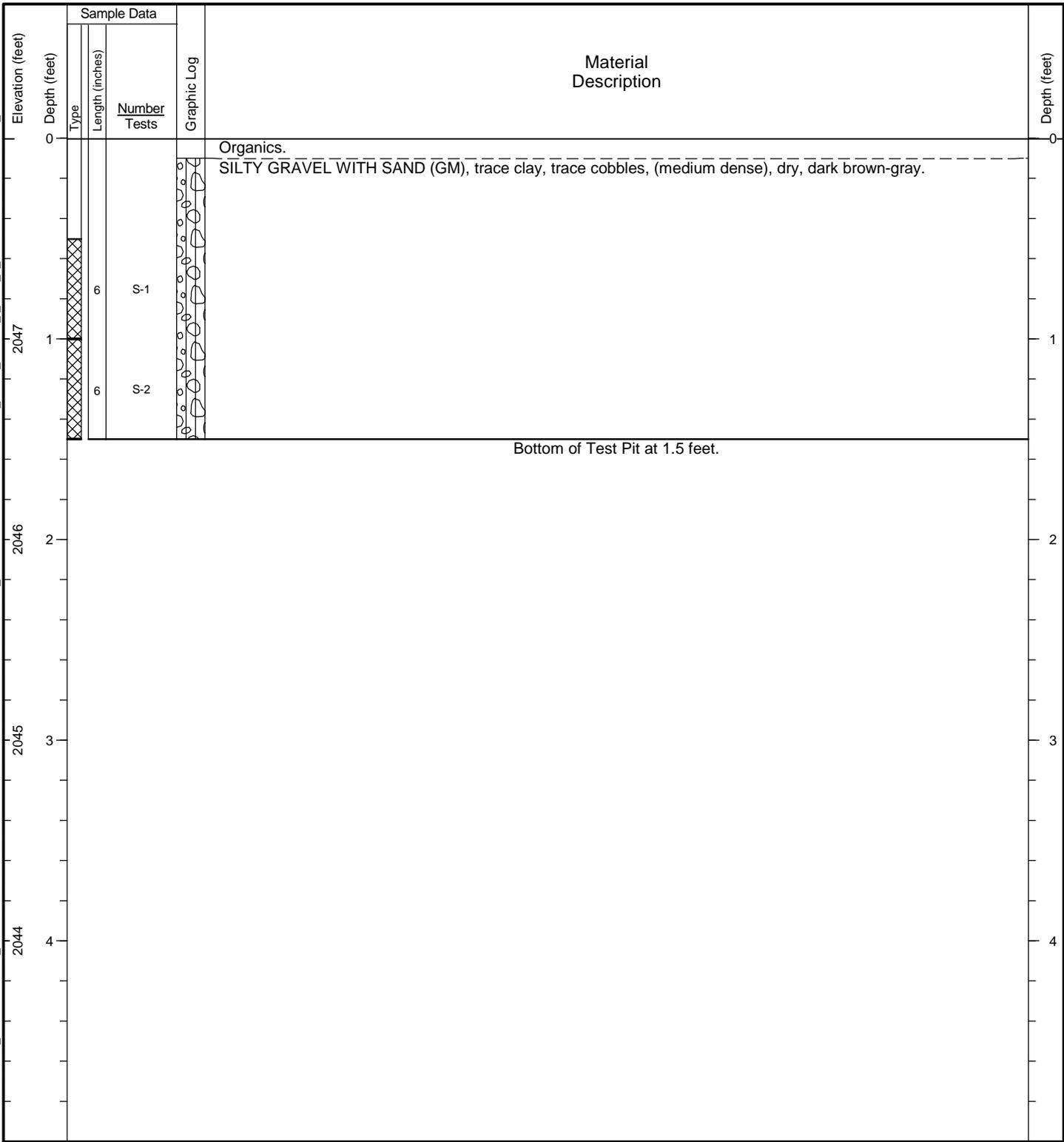
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Date Started: 8/2/18 Date Completed: 8/2/18 Contractor/Crew: _____
 Logged by: W. McDonald Checked by: J. Haney Rig Model/Type: Bobcat 323 / Mini Excavator
 Location: Lat: 47.659771 Long: -117.137441 (WGS 84) Total Depth: 1.5 feet Depth to Seepage: Not Encountered
 Ground Surface Elevation: 2,048.00 feet (NAVD 88)
 Comments: _____

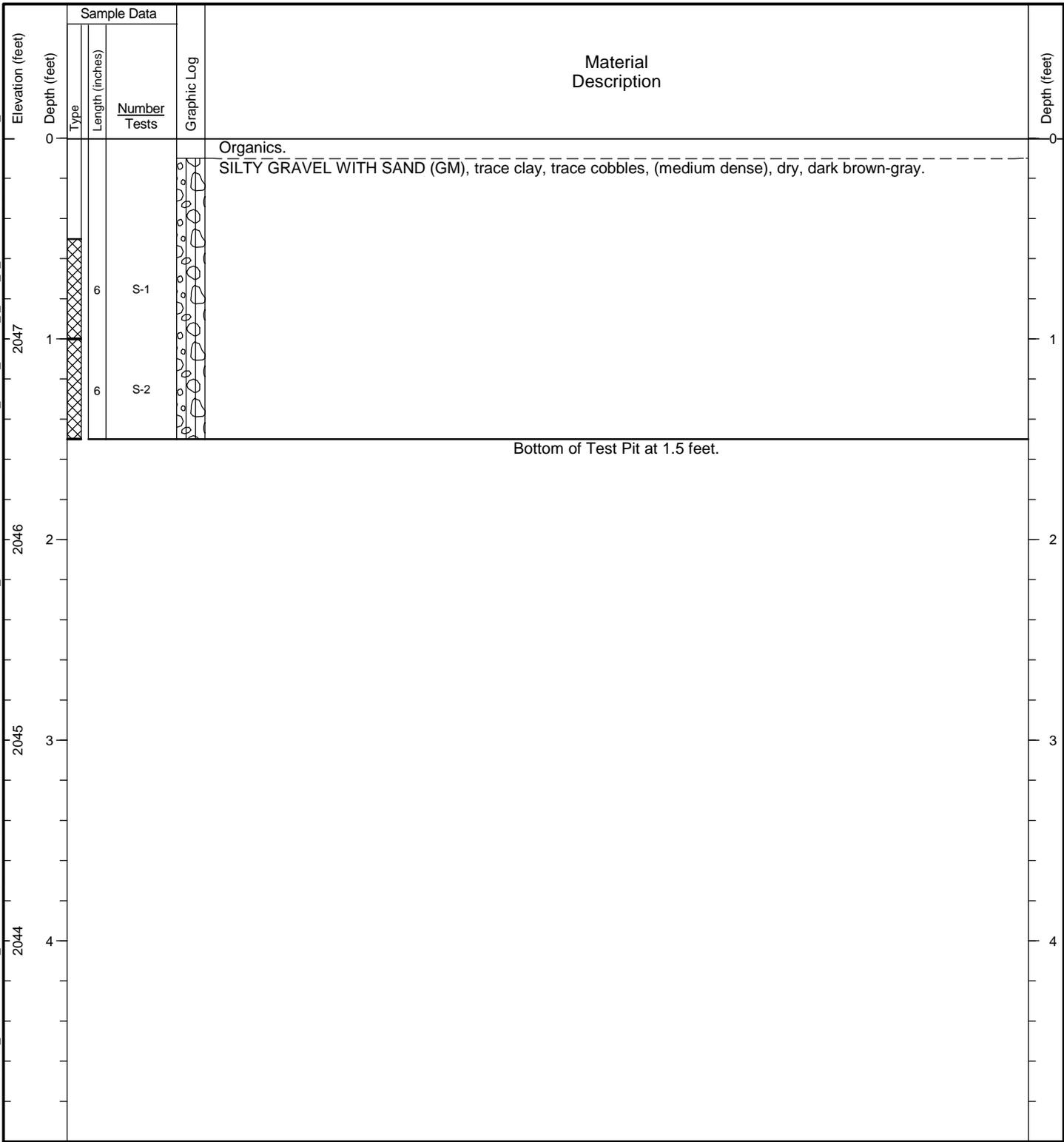
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Date Started: 8/2/18 Date Completed: 8/2/18 Contractor/Crew: _____
 Logged by: W. McDonald Checked by: J. Haney Rig Model/Type: Bobcat 323 / Mini Excavator
 Location: Lat: 47.659391 Long: -117.136855 (WGS 84) Total Depth: 1.5 feet Depth to Seepage: Not Encountered
 Ground Surface Elevation: 2,048.00 feet (NAVD 88)
 Comments: _____

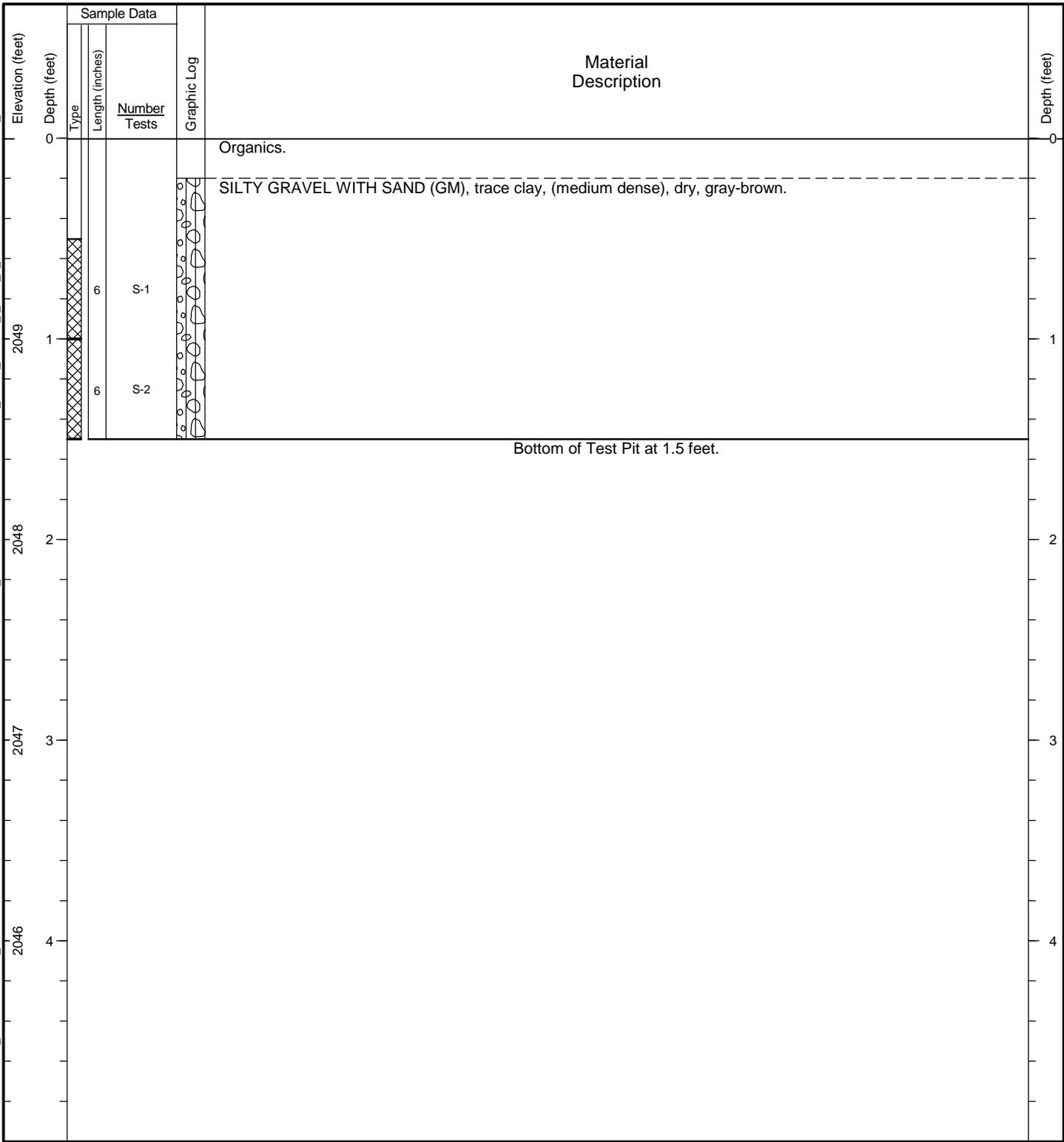
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Date Started: 8/2/18 Date Completed: 8/2/18 Contractor/Crew: _____
 Logged by: W. McDonald Checked by: J. Haney Rig Model/Type: Bobcat 323 / Mini Excavator
 Location: Lat: 47.659201 Long: -117.136563 (WGS 84) Total Depth: 1.5 feet Depth to Seepage: Not Encountered
 Ground Surface Elevation: 2,050.00 feet (NAVD 88)
 Comments: _____

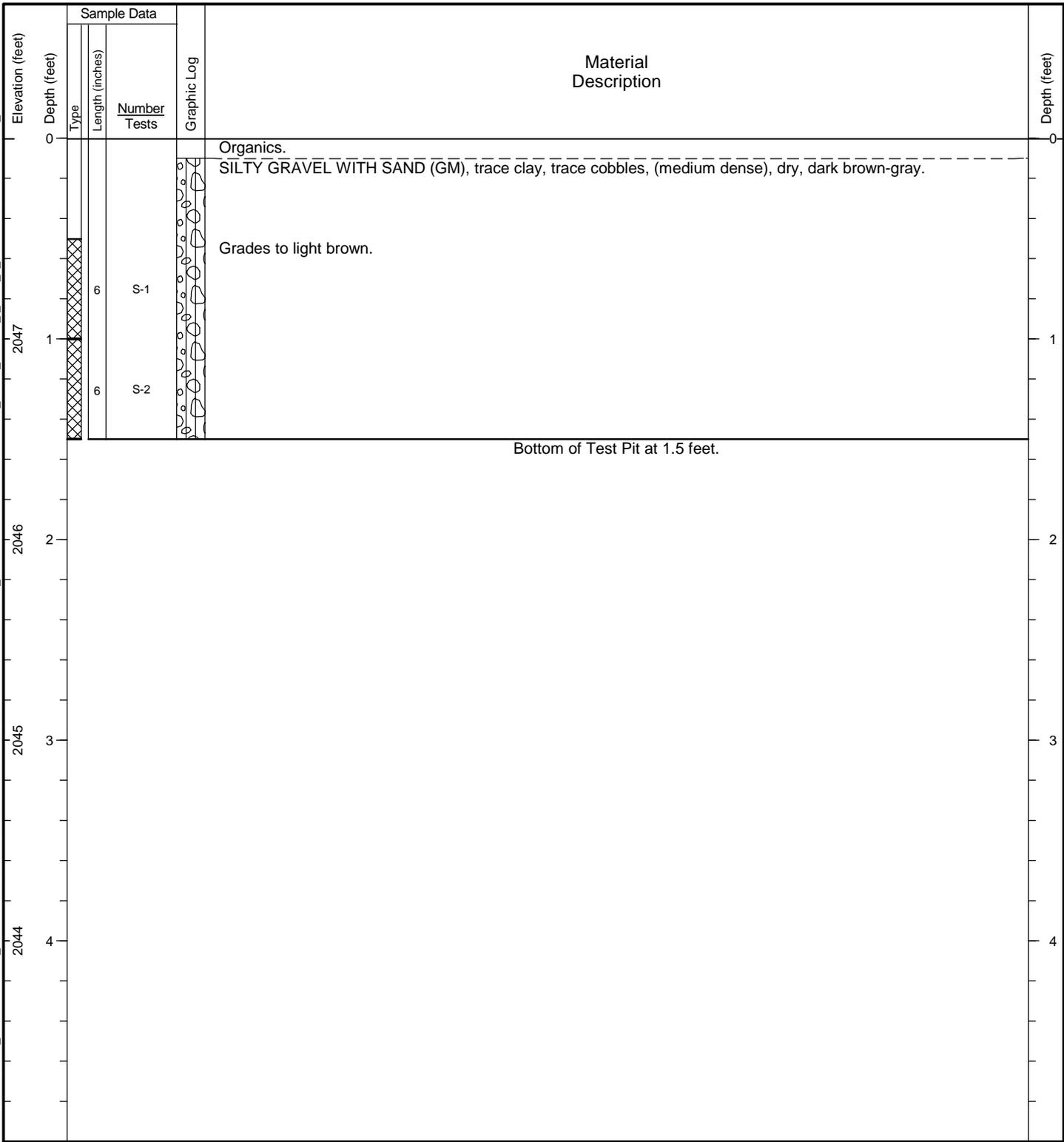
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Date Started: 8/2/18 Date Completed: 8/2/18 Contractor/Crew: _____
 Logged by: W. McDonald Checked by: J. Haney Rig Model/Type: Bobcat 323 / Mini Excavator
 Location: Lat: 47.659011 Long: -117.136270 (WGS 84) Total Depth: 1.5 feet Depth to Seepage: Not Encountered
 Ground Surface Elevation: 2,048.00 feet (NAVD 88)
 Comments: _____

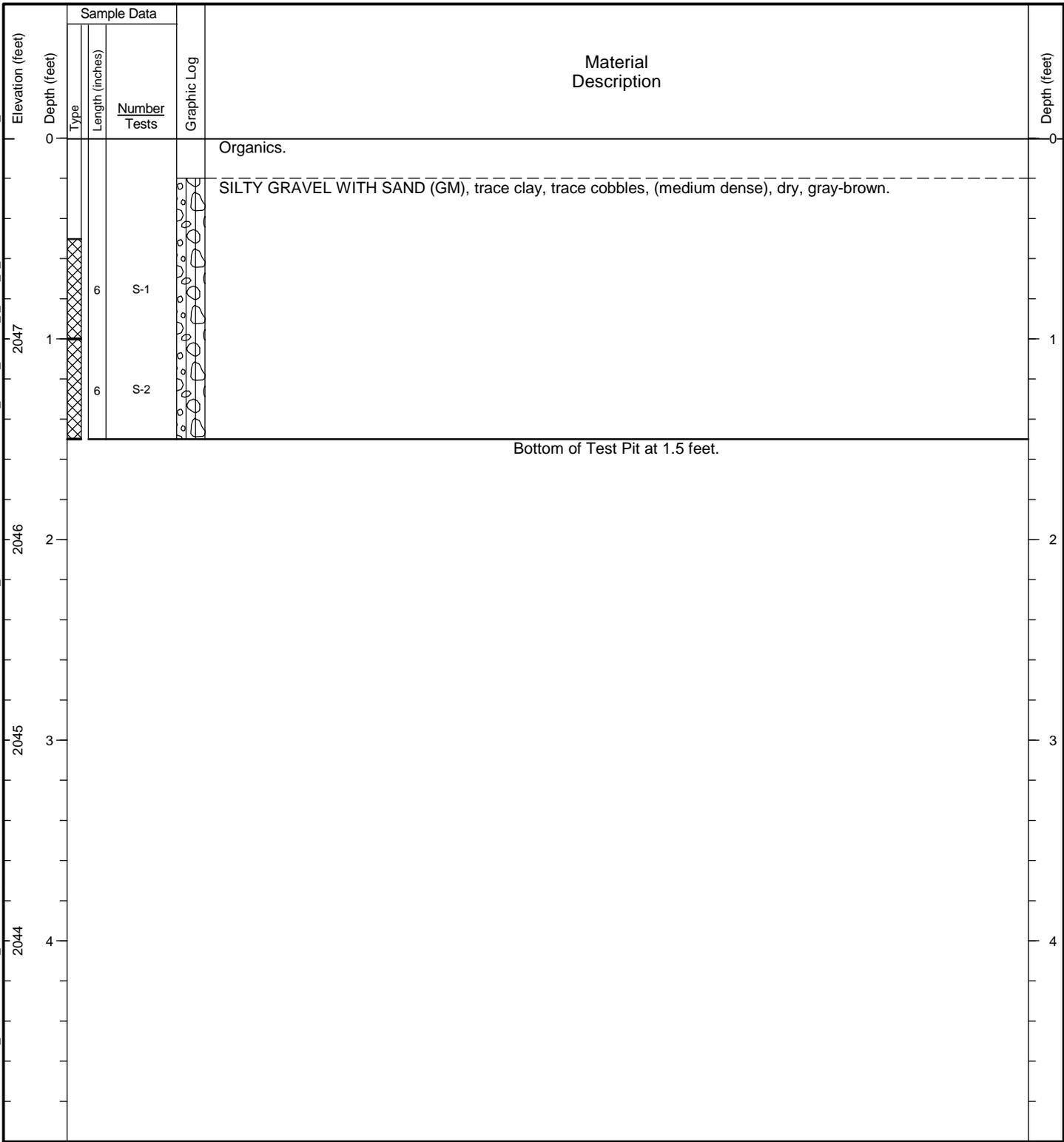
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Date Started: 8/2/18 Date Completed: 8/2/18 Contractor/Crew: _____
 Logged by: W. McDonald Checked by: J. Haney Rig Model/Type: Bobcat 323 / Mini Excavator
 Location: Lat: 47.658821 Long: -117.135978 (WGS 84) Total Depth: 1.5 feet Depth to Seepage: Not Encountered
 Ground Surface Elevation: 2,048.00 feet (NAVD 88)
 Comments: _____

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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: 47.658678 Long: -117.135640 (WGS 84) Total Depth: 1.5 feet Depth to Seepage: Not Encountered
 Ground Surface Elevation: 2,048.00 feet (NAVD 88)
 Comments: _____

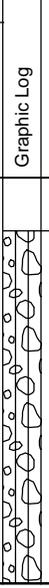
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Elevation (feet)	Depth (feet)	Sample Data			Graphic Log	Material Description	Depth (feet)
		Type	Length (inches)	Number Tests			
2047	0					0	Organics.
							SILTY GRAVEL WITH SAND (GM), trace clay, trace cobbles, (medium dense), dry, dark brown-gray,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

General Notes:
 1. Refer to Figure A-1 for explanation of descriptions and symbols.
 2. Material stratum lines are interpretive and actual changes may be gradual. Solid lines indicate distinct contacts and dashed lines indicate gradual or approximate contacts.
 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.
 5. Location and ground surface elevations are approximate.

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 (WGS 84) Total Depth: 1.5 feet Depth to Seepage: Not Encountered
 Ground Surface Elevation: 2,048.00 feet (NAVD 88)
 Comments: _____

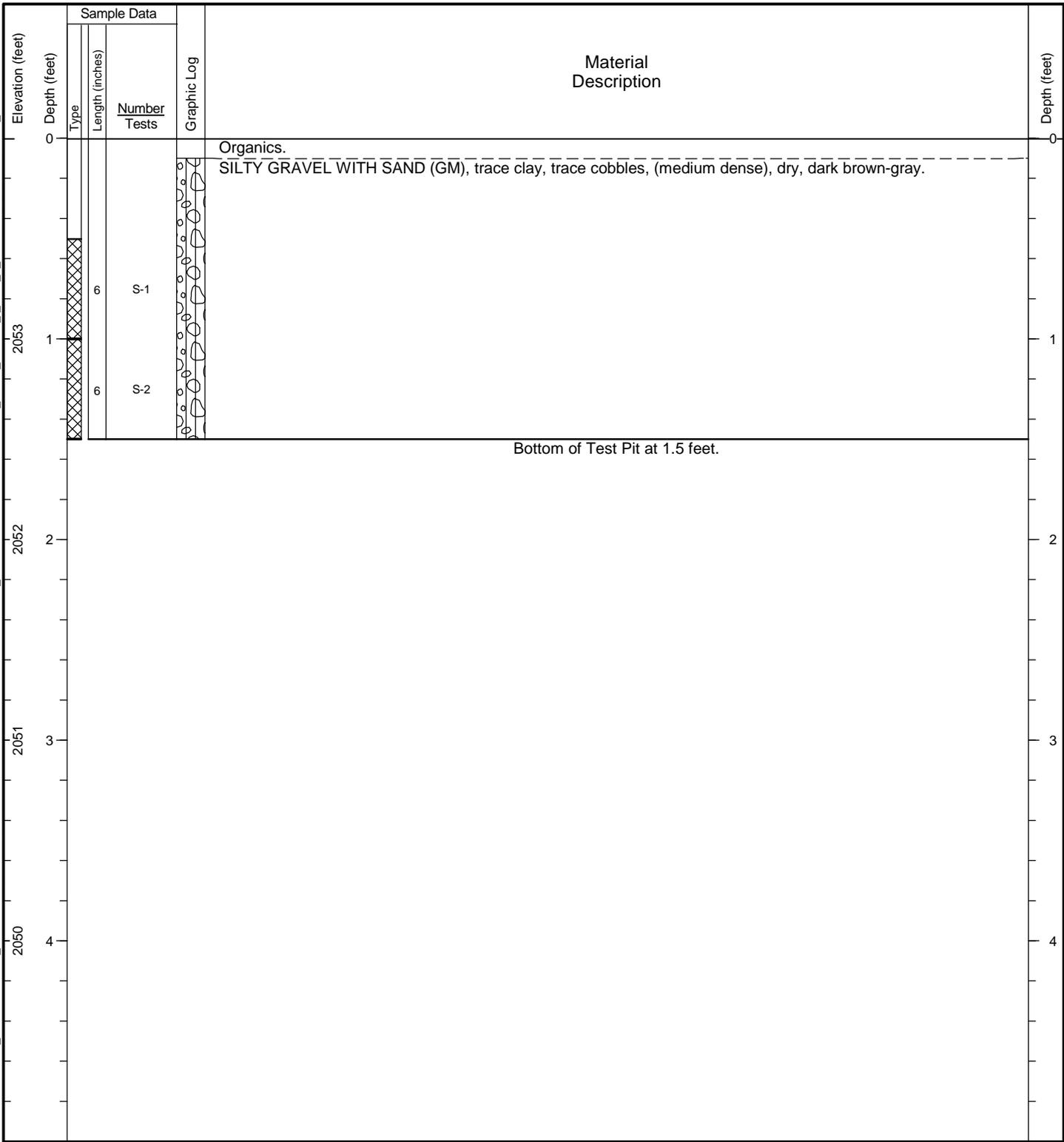
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Elevation (feet)	Depth (feet)	Sample Data			Graphic Log	Material Description	Depth (feet)
		Type	Length (inches)	Number Tests			
2048	0					Organics.	0
2047	1		6	S-1		SILTY GRAVEL WITH SAND (GM), trace clay, trace cobbles, (medium dense), dry, gray-brown, clay pigeon debris.	1
2046	2		6	S-2			2
2045	3	Bottom of Test Pit at 1.5 feet.					3
2044	4						4

General Notes:
 1. Refer to Figure A-1 for explanation of descriptions and symbols.
 2. Material stratum lines are interpretive and actual changes may be gradual. Solid lines indicate distinct contacts and dashed lines indicate gradual or approximate contacts.
 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.
 5. Location and ground surface elevations are approximate.

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: 47.657856 Long: -117.135646 (WGS 84) Total Depth: 1.5 feet Depth to Seepage: Not Encountered
 Ground Surface Elevation: 2,054.00 feet (NAVD 88)
 Comments: _____

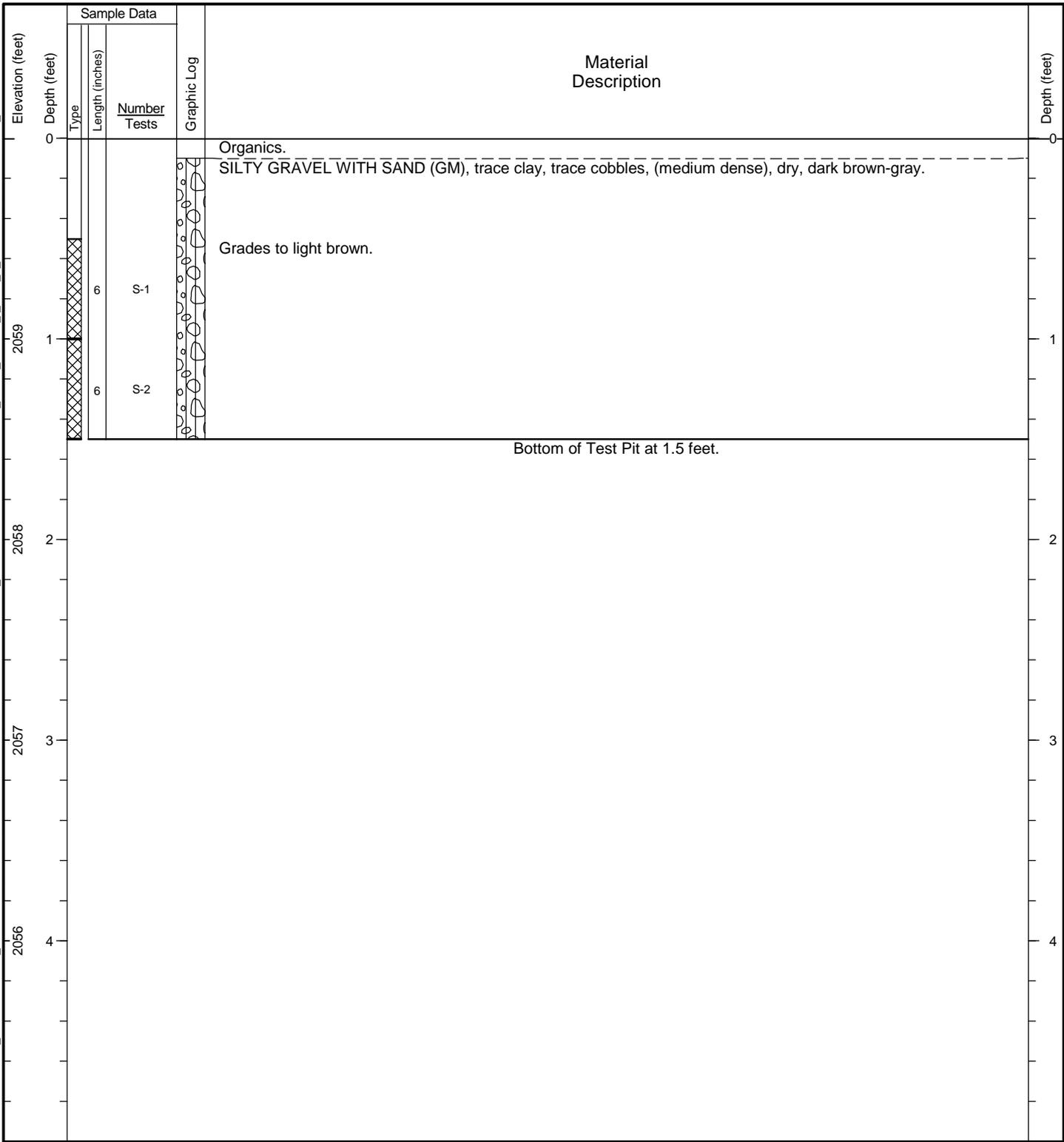
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General Notes:
 1. Refer to Figure A-1 for explanation of descriptions and symbols.
 2. Material stratum lines are interpretive and actual changes may be gradual. Solid lines indicate distinct contacts and dashed lines indicate gradual or approximate contacts.
 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.
 5. Location and ground surface elevations are approximate.

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: 47.657582 Long: -117.135648 (WGS 84) Total Depth: 1.5 feet Depth to Seepage: Not Encountered
 Ground Surface Elevation: 2,060.00 feet (NAVD 88)
 Comments: _____

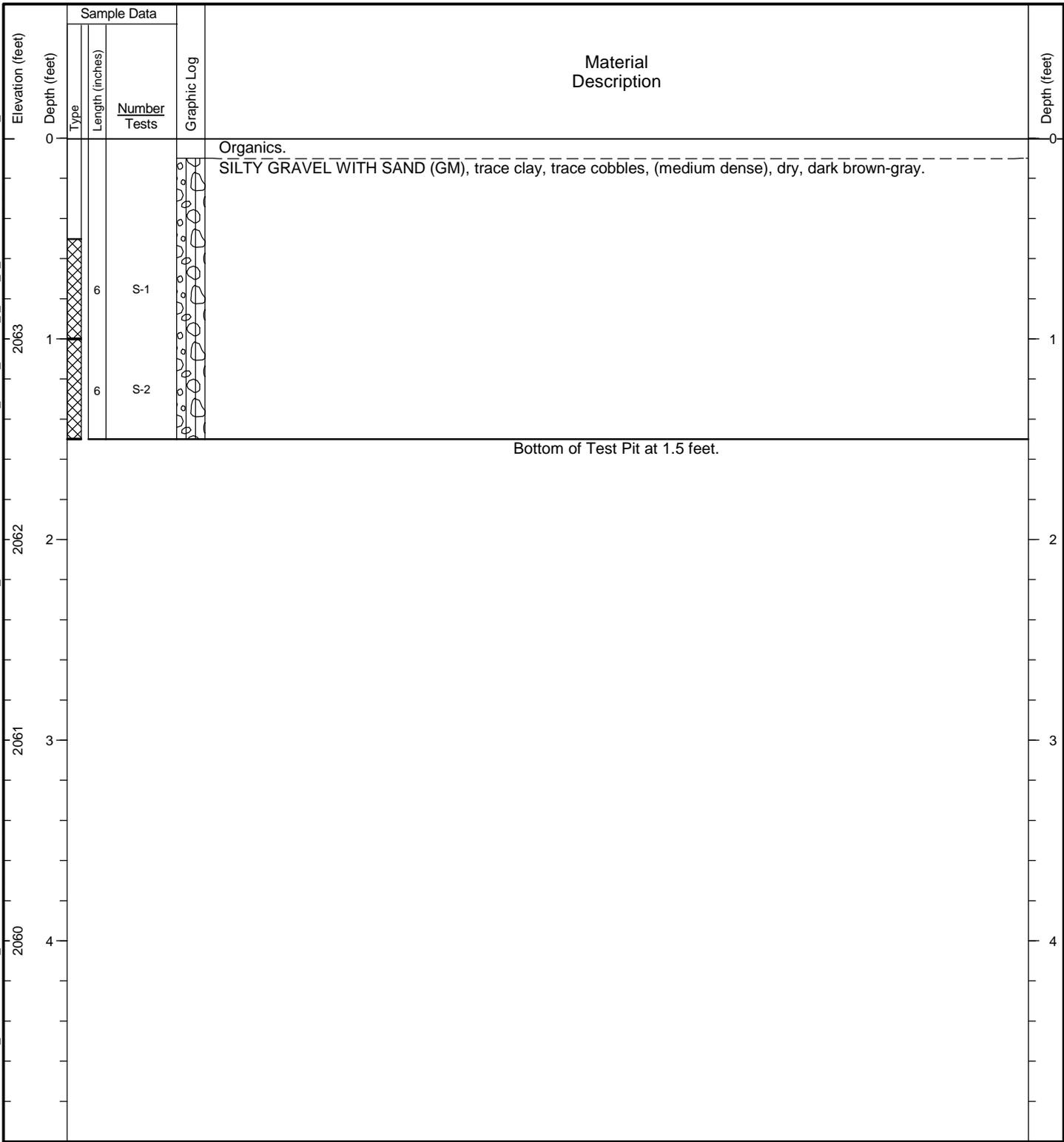
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General Notes:
 1. Refer to Figure A-1 for explanation of descriptions and symbols.
 2. Material stratum lines are interpretive and actual changes may be gradual. Solid lines indicate distinct contacts and dashed lines indicate gradual or approximate contacts.
 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.
 5. Location and ground surface elevations are approximate.

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: 47.657307 Long: -117.135650 (WGS 84) Total Depth: 1.5 feet Depth to Seepage: Not Encountered
 Ground Surface Elevation: 2,064.00 feet (NAVD 88)
 Comments: _____

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General Notes:
 1. Refer to Figure A-1 for explanation of descriptions and symbols.
 2. Material stratum lines are interpretive and actual changes may be gradual. Solid lines indicate distinct contacts and dashed lines indicate gradual or approximate contacts.
 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.
 5. Location and ground surface elevations are approximate.

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 (WGS 84) Total Depth: 1.5 feet Depth to Seepage: Not Encountered
 Ground Surface Elevation: 2,068.00 feet (NAVD 88)
 Comments: _____

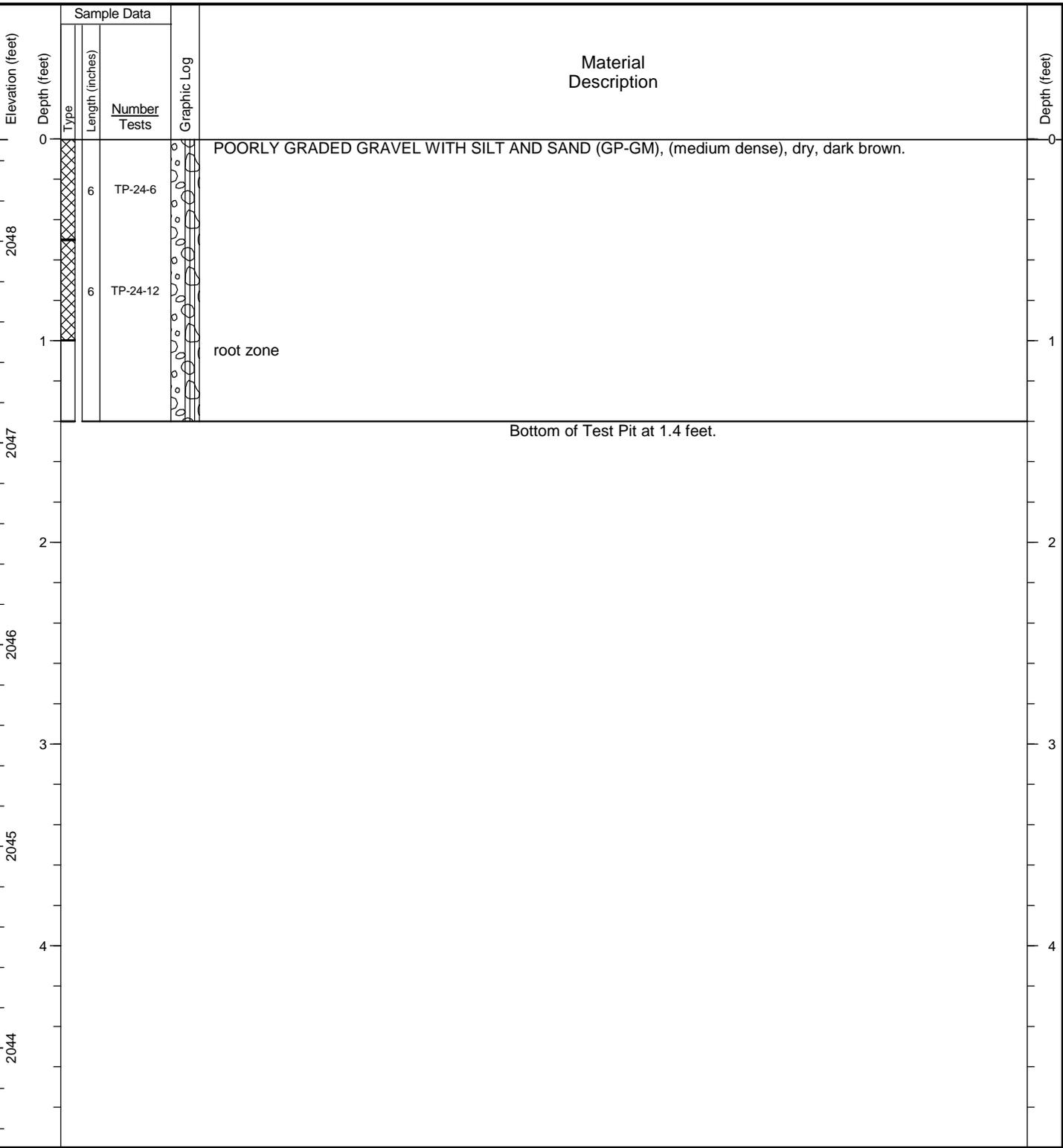
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Elevation (feet)	Depth (feet)	Type	Length (inches)	Number Tests	Graphic Log	Material Description	Depth (feet)	
2068	0					Organics.	0	
2067	0.5			S-1		SILTY GRAVEL WITH SAND (GM), trace clay, trace cobbles, (medium dense), dry, dark brown-gray.	0.5	
2067	1.0			S-2			1.0	
2066	1.5	Bottom of Test Pit at 1.5 feet.						1.5
2065	2.0						2.0	
2064	3.0						3.0	
2064	4.0						4.0	

General Notes:
 1. Refer to Figure A-1 for explanation of descriptions and symbols.
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 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.
 5. Location and ground surface elevations are approximate.

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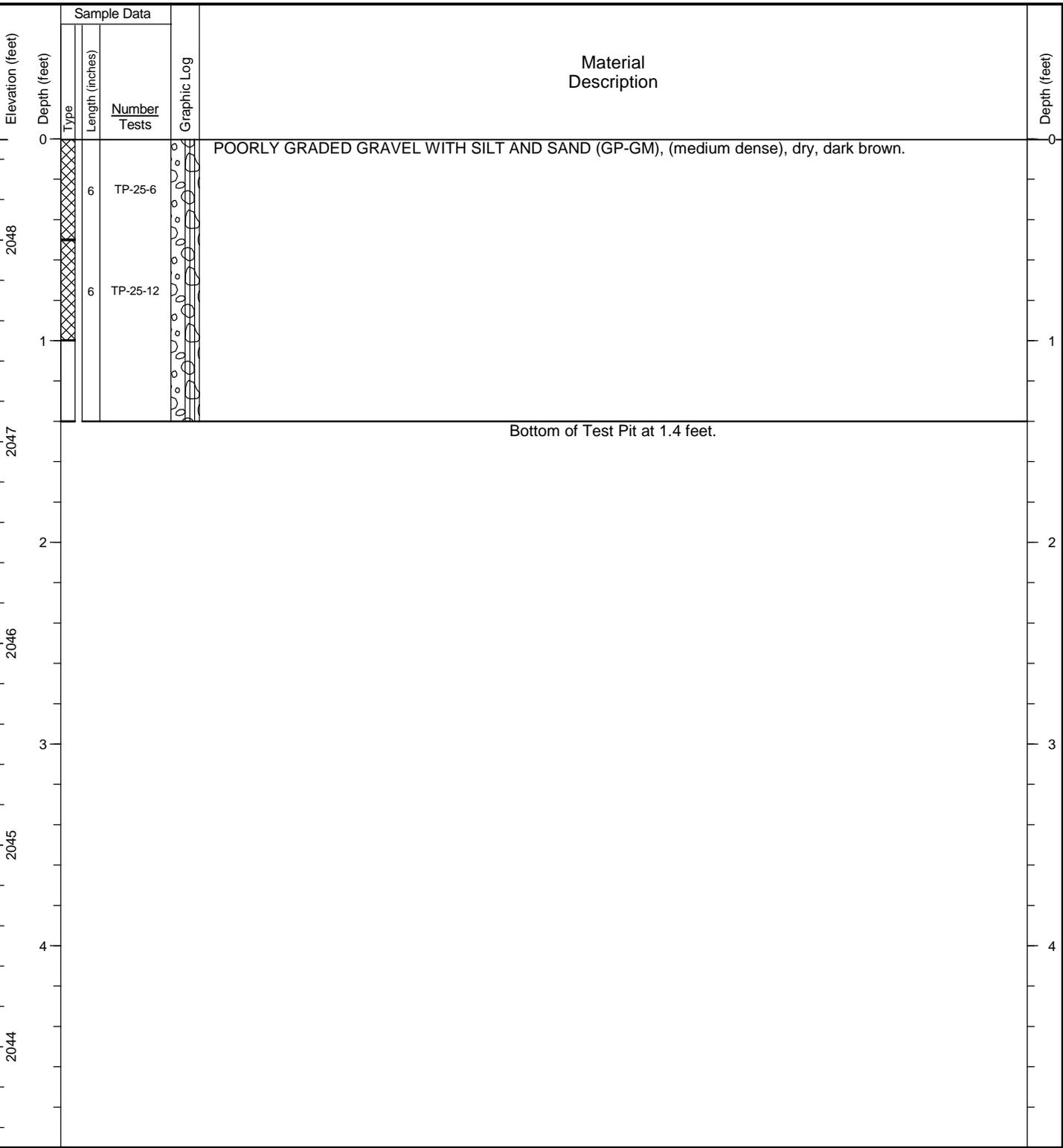
Date Started: 9/25/18 Date Completed: 9/25/18 Contractor/Crew: _____
 Logged by: K. Huddleston/W. McDonald Checked by: _____ Rig Model/Type: _____
 Location: Lat: 47.659598 Long: -117.137234 (WA State Plane N, NAD 83, ft.) Total Depth: 1.4 feet Depth to Seepage: Not Encountered
 Ground Surface Elevation: 2,048.51 feet (NAVD 88)
 Comments: _____



General Notes:
 1. Refer to Figure A-1 for explanation of descriptions and symbols.
 2. Material stratum lines are interpretive and actual changes may be gradual. Solid lines indicate distinct contacts and dashed lines indicate gradual or approximate contacts.
 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.
 5. Location and ground surface elevations are approximate.

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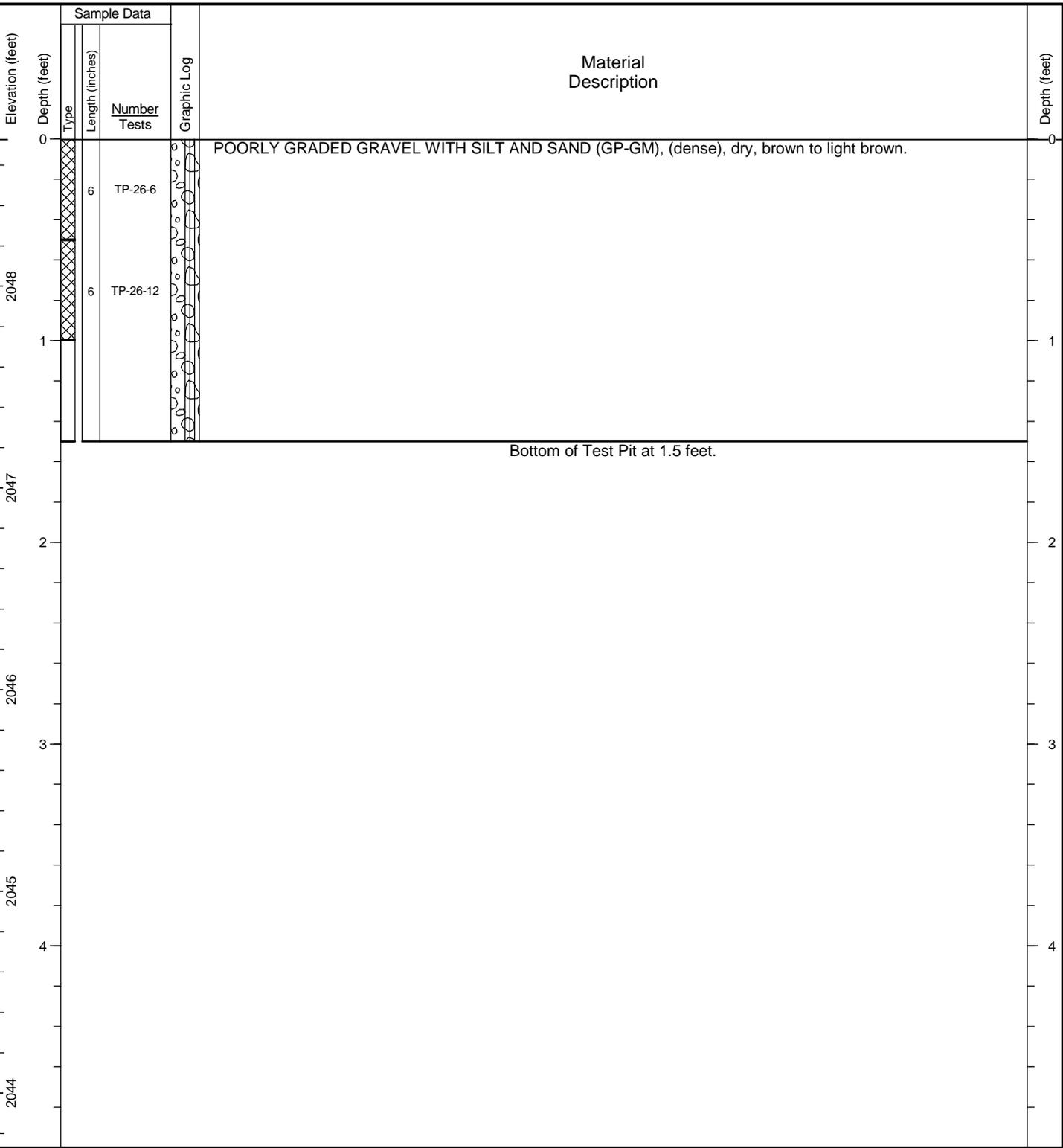
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 Logged by: K. Huddleston/W. McDonald Checked by: _____ Rig Model/Type: _____
 Location: Lat: 47.659629 Long: -117.137129 (WA State Plane N, NAD 83, ft.) Total Depth: 1.4 feet Depth to Seepage: Not Encountered
 Ground Surface Elevation: 2,048.50 feet (NAVD 88)
 Comments: _____



General Notes:
 1. Refer to Figure A-1 for explanation of descriptions and symbols.
 2. Material stratum lines are interpretive and actual changes may be gradual. Solid lines indicate distinct contacts and dashed lines indicate gradual or approximate contacts.
 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.
 5. Location and ground surface elevations are approximate.

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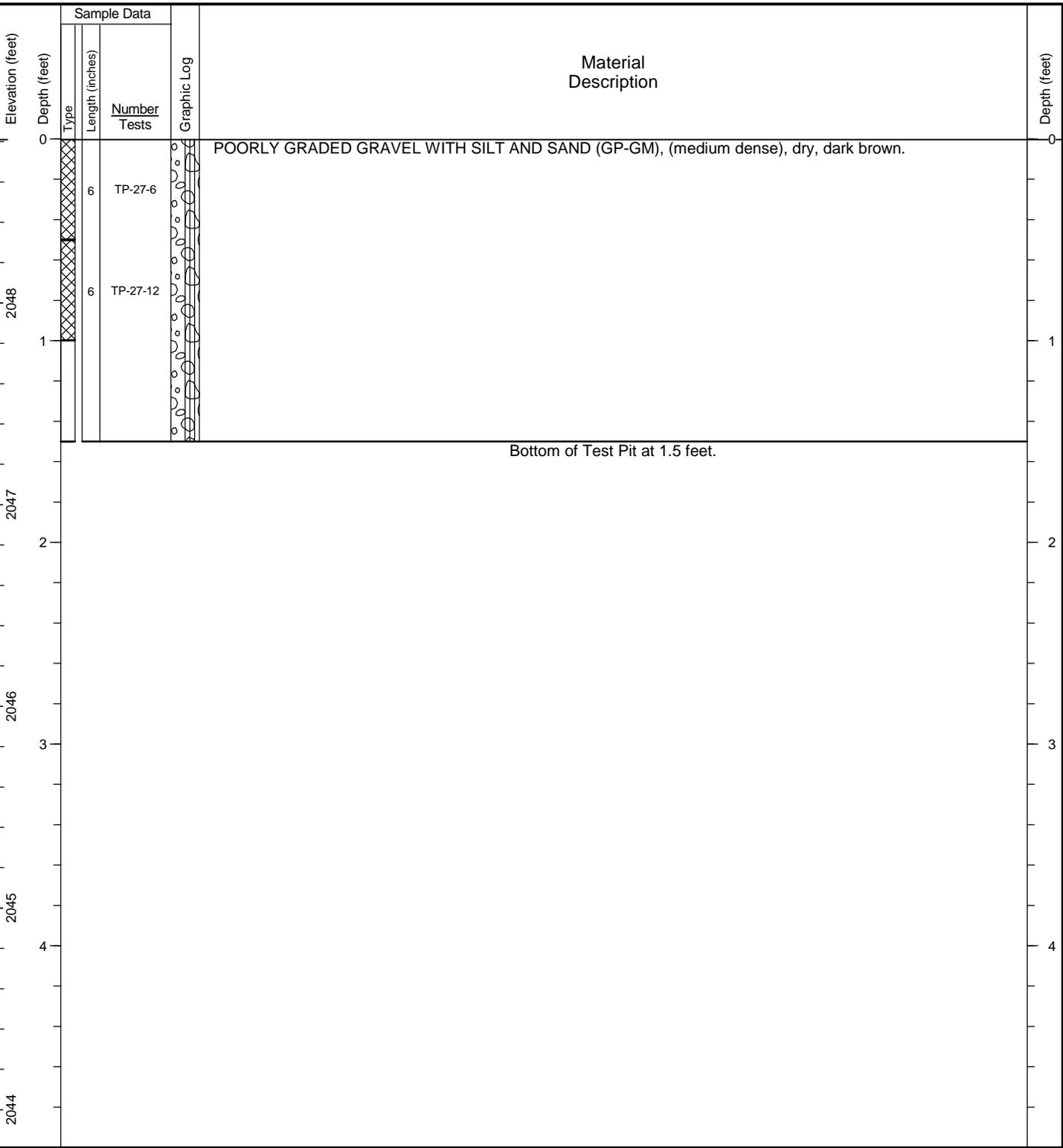
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 Logged by: K. Huddleston/W. McDonald Checked by: _____ Rig Model/Type: _____
 Location: Lat: 47.659569 Long: -117.137077 (WA State Plane N, NAD 83, ft.) Total Depth: 1.5 feet Depth to Seepage: Not Encountered
 Ground Surface Elevation: 2,048.73 feet (NAVD 88)
 Comments: _____



General Notes:
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 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.
 5. Location and ground surface elevations are approximate.

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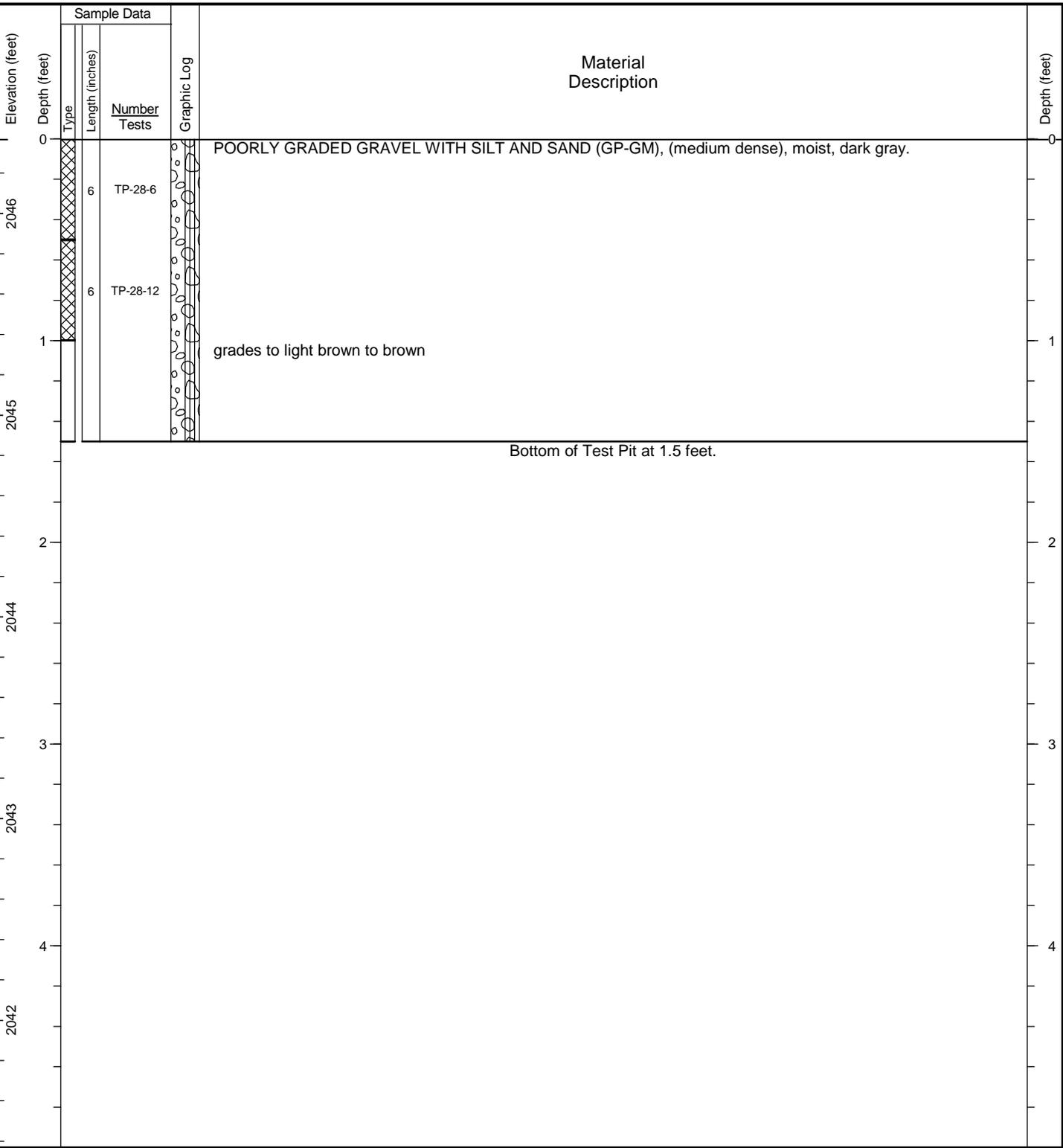
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 Logged by: K. Huddleston/W. McDonald Checked by: _____ Rig Model/Type: _____
 Location: Lat: 47.659524 Long: -117.137174 (WA State Plane N, NAD 83, ft.) Total Depth: 1.5 feet Depth to Seepage: Not Encountered
 Ground Surface Elevation: 2,048.81 feet (NAVD 88)
 Comments: _____



General Notes:
 1. Refer to Figure A-1 for explanation of descriptions and symbols.
 2. Material stratum lines are interpretive and actual changes may be gradual. Solid lines indicate distinct contacts and dashed lines indicate gradual or approximate contacts.
 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.
 5. Location and ground surface elevations are approximate.

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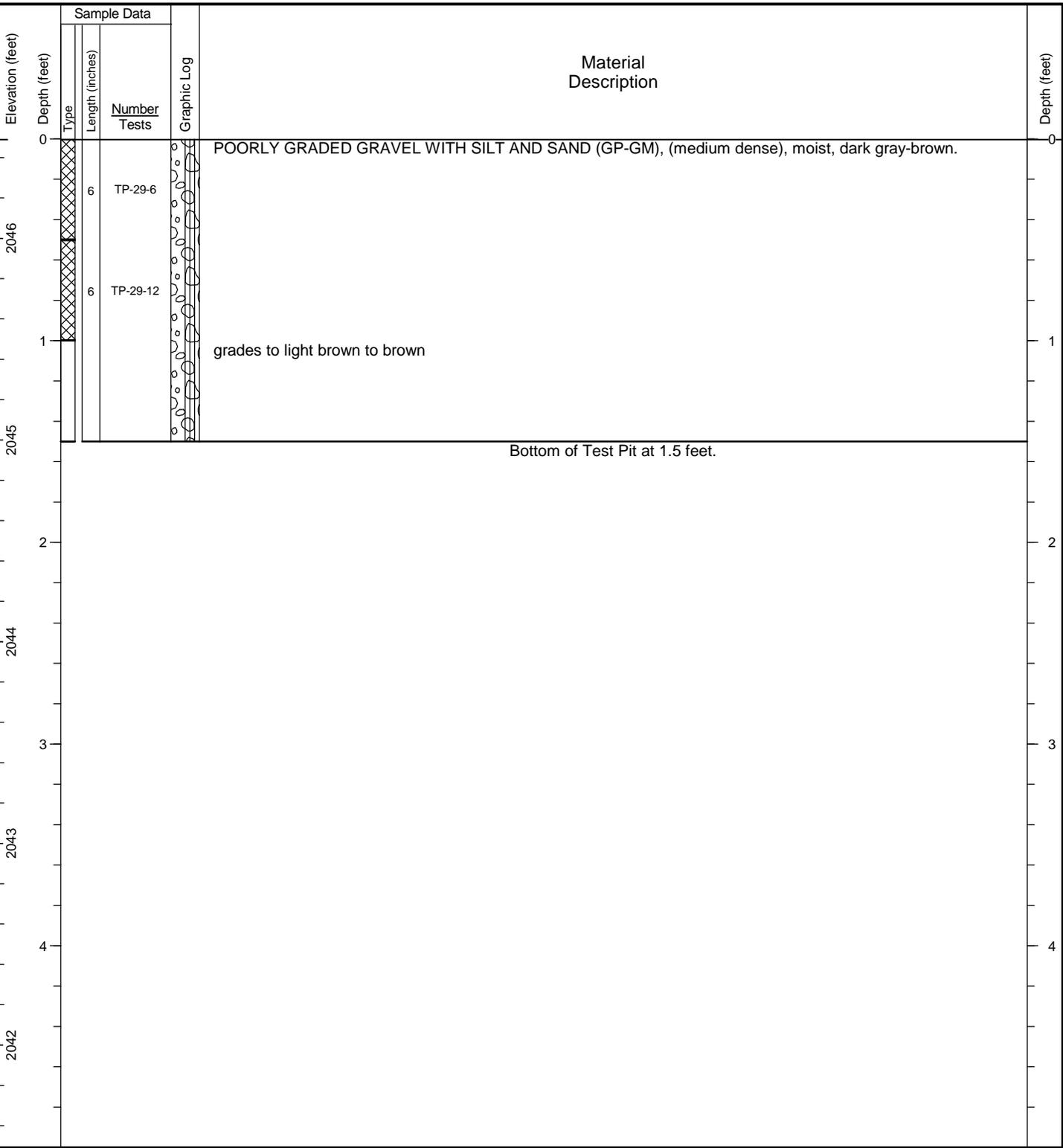
Date Started: 9/25/18 Date Completed: 9/25/18 Contractor/Crew: _____
 Logged by: K. Huddleston/W. McDonald Checked by: _____ Rig Model/Type: _____
 Location: Lat: 47.658806 Long: -117.135650 (WA State Plane N, NAD 83, ft.) Total Depth: 1.5 feet Depth to Seepage: Not Encountered
 Ground Surface Elevation: 2,046.37 feet (NAVD 88)
 Comments: _____



General Notes:
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 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.
 5. Location and ground surface elevations are approximate.

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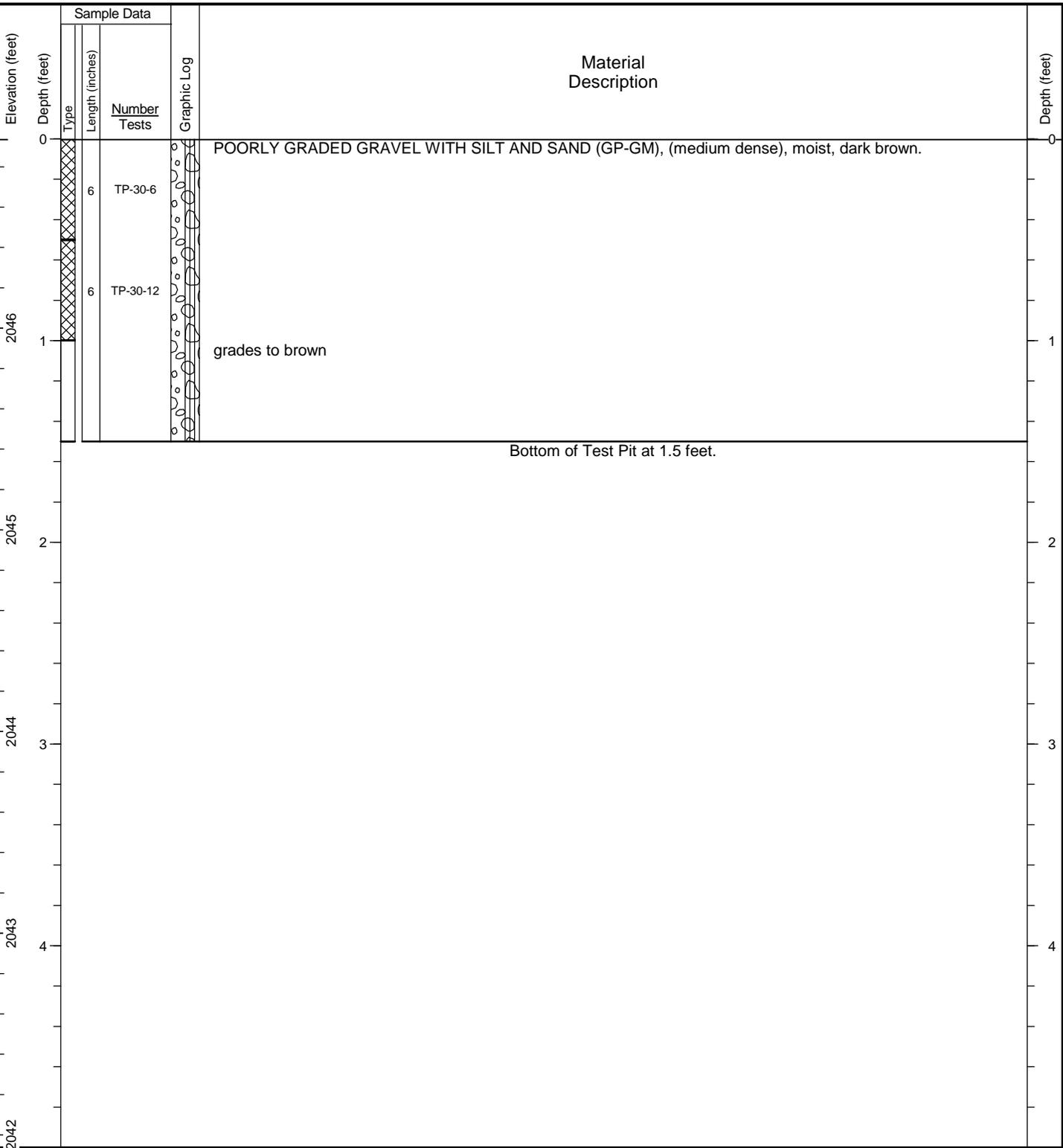
Date Started: 9/25/18 Date Completed: 9/25/18 Contractor/Crew: _____
 Logged by: K. Huddleston/W. McDonald Checked by: _____ Rig Model/Type: _____
 Location: Lat: 47.658690 Long: -117.135845 (WA State Plane N, NAD 83, ft.) Total Depth: 1.5 feet Depth to Seepage: Not Encountered
 Ground Surface Elevation: 2,046.49 feet (NAVD 88)
 Comments: _____



General Notes:
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 4. Groundwater level, if indicated, is at time of drilling/excavation (ATD) or for date specified. Level may vary with time.
 5. Location and ground surface elevations are approximate.

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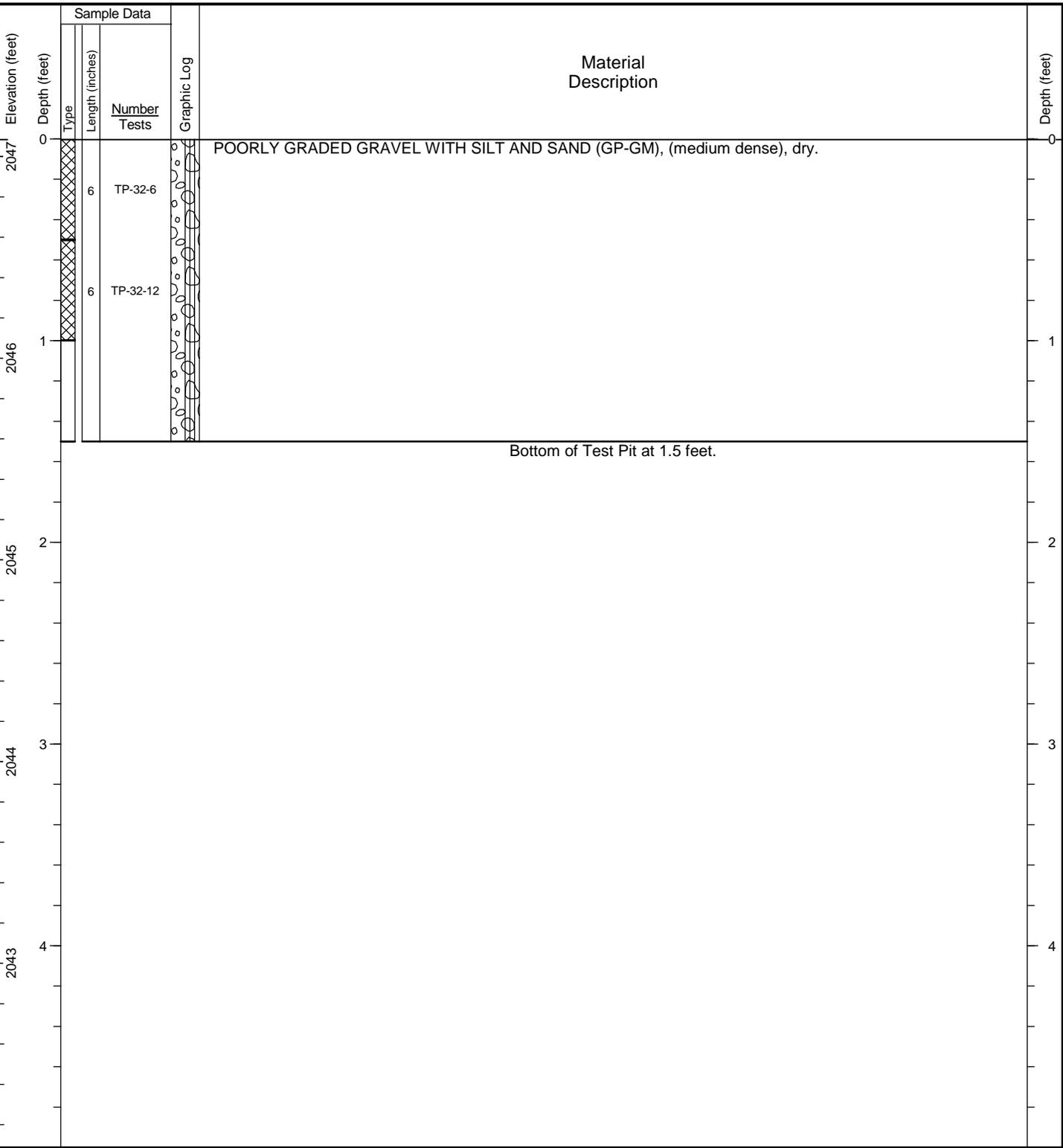
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 Logged by: K. Huddleston/W. McDonald Checked by: _____ Rig Model/Type: _____
 Location: Lat: 47.658663 Long: -117.135427 (WA State Plane N, NAD 83, ft.) Total Depth: 1.5 feet Depth to Seepage: Not Encountered
 Ground Surface Elevation: 2,046.94 feet (NAVD 88)
 Comments: _____



General Notes:
 1. Refer to Figure A-1 for explanation of descriptions and symbols.
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 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.
 5. Location and ground surface elevations are approximate.

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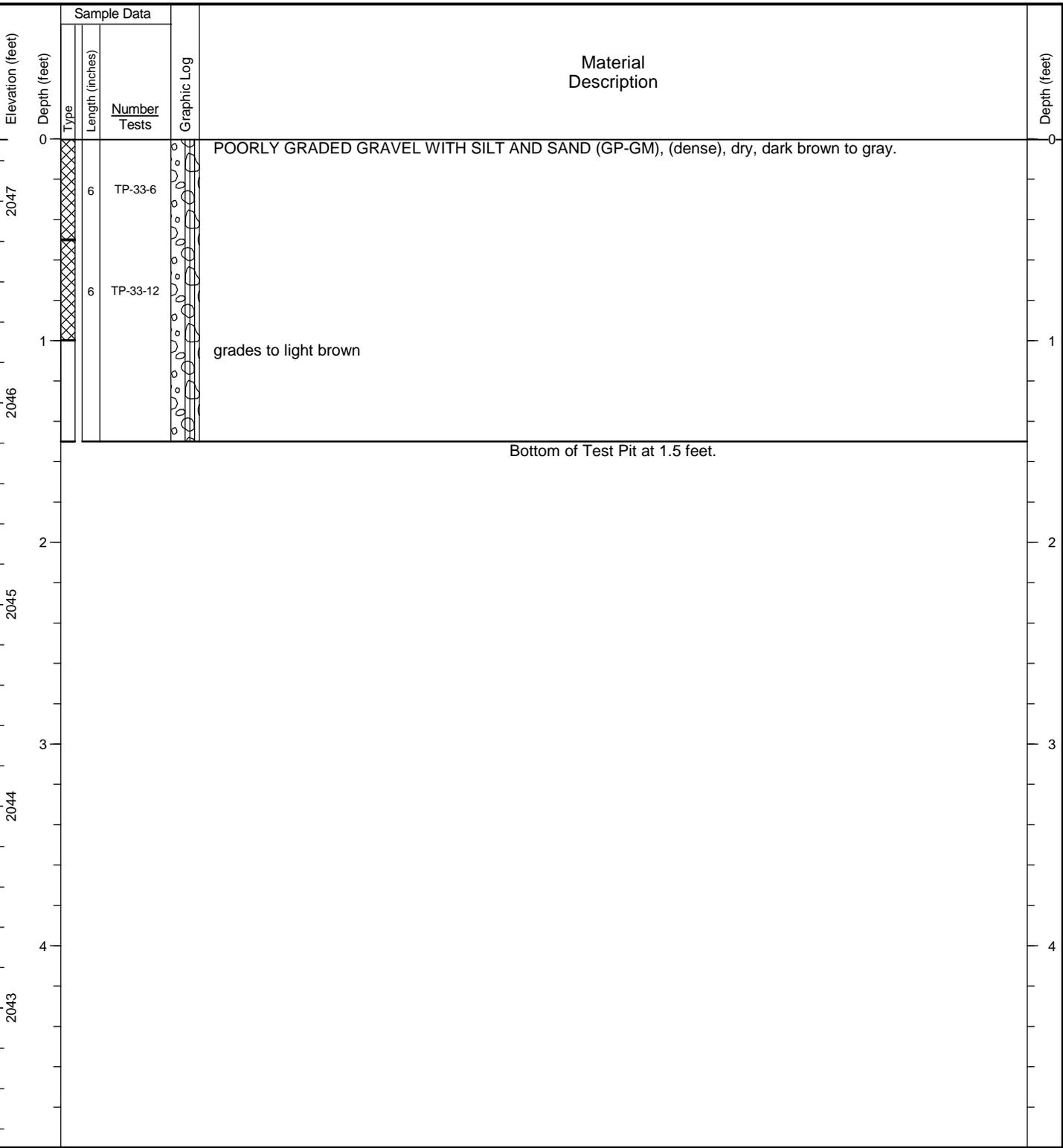
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 Logged by: K. Huddleston/W. McDonald Checked by: _____ Rig Model/Type: _____
 Location: Lat: 47.658506 Long: -117.135247 (WA State Plane N, NAD 83, ft.) Total Depth: 1.5 feet Depth to Seepage: Not Encountered
 Ground Surface Elevation: 2,047.09 feet (NAVD 88)
 Comments: _____



General Notes:
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 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.
 5. Location and ground surface elevations are approximate.

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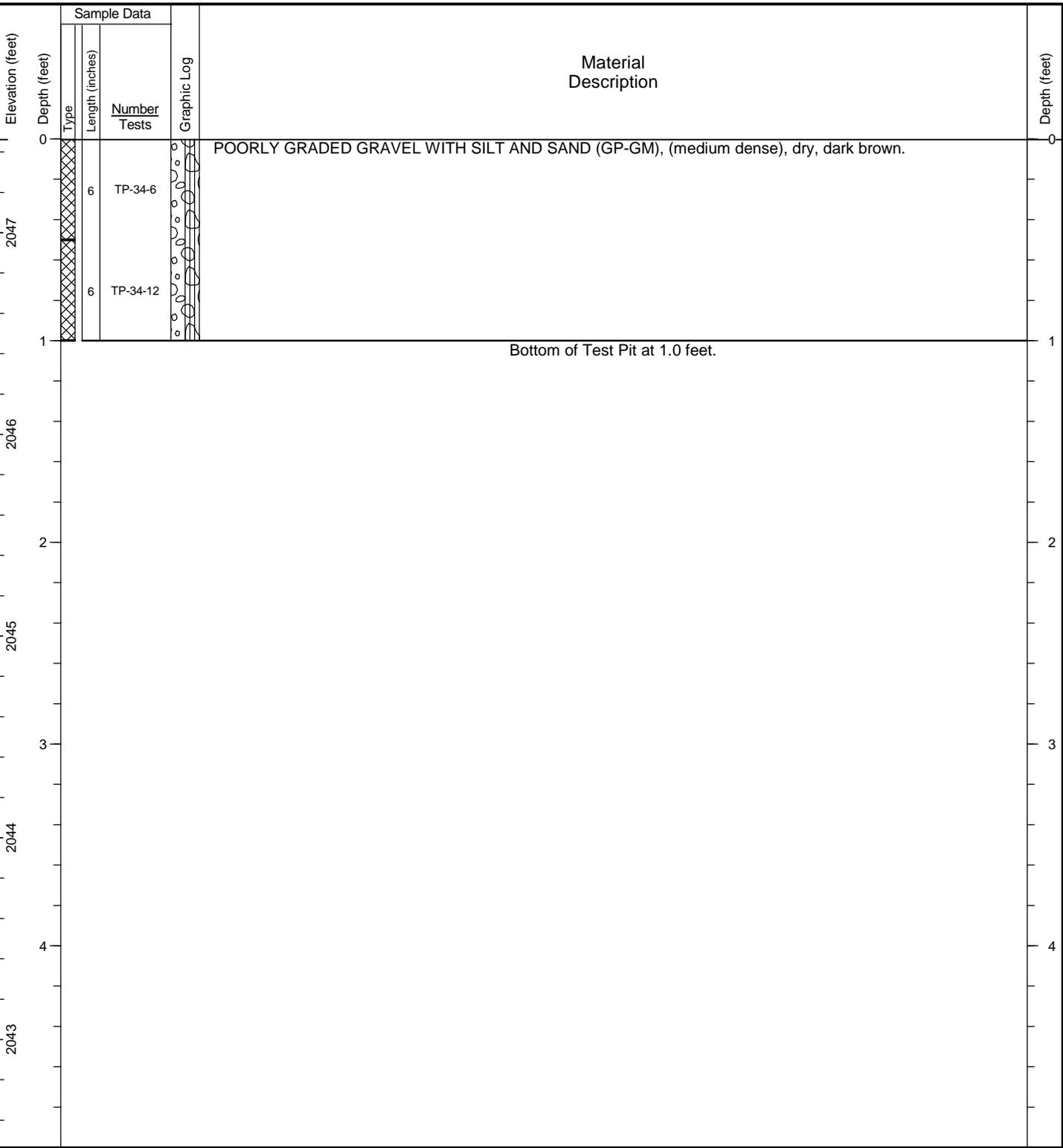
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 Logged by: K. Huddleston/W. McDonald Checked by: _____ Rig Model/Type: _____
 Location: Lat: 47.658403 Long: -117.135832 (WA State Plane N, NAD 83, ft.) Total Depth: 1.5 feet Depth to Seepage: Not Encountered
 Ground Surface Elevation: 2,047.31 feet (NAVD 88)
 Comments: _____



General Notes:
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 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.
 5. Location and ground surface elevations are approximate.

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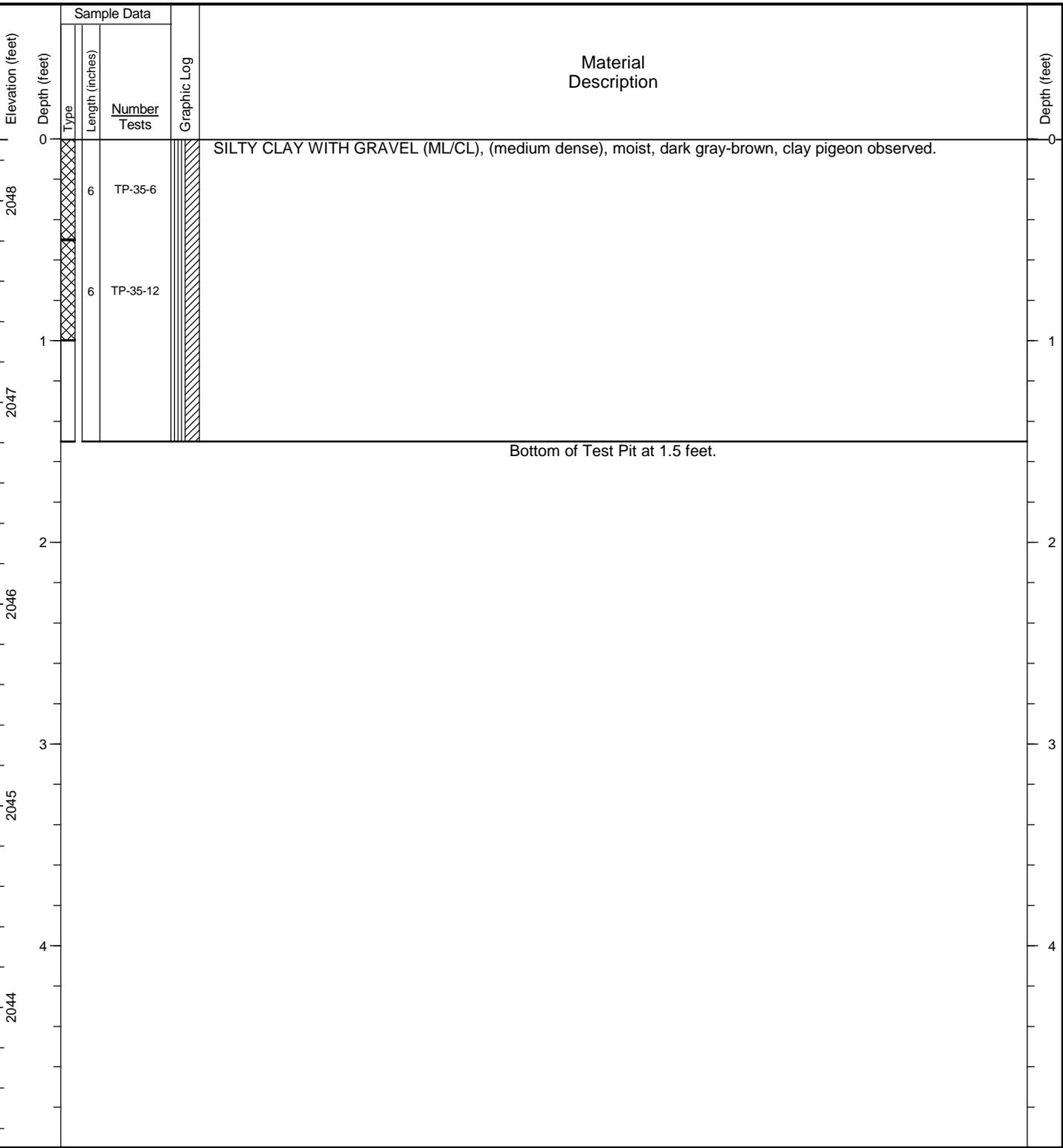
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 Logged by: K. Huddleston/W. McDonald Checked by: _____ Rig Model/Type: _____
 Location: Lat: 47.658379 Long: -117.135427 (WA State Plane N, NAD 83, ft.) Total Depth: 1 feet Depth to Seepage: Not Encountered
 Ground Surface Elevation: 2,047.46 feet (NAVD 88)
 Comments: _____



General Notes:
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 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.
 5. Location and ground surface elevations are approximate.

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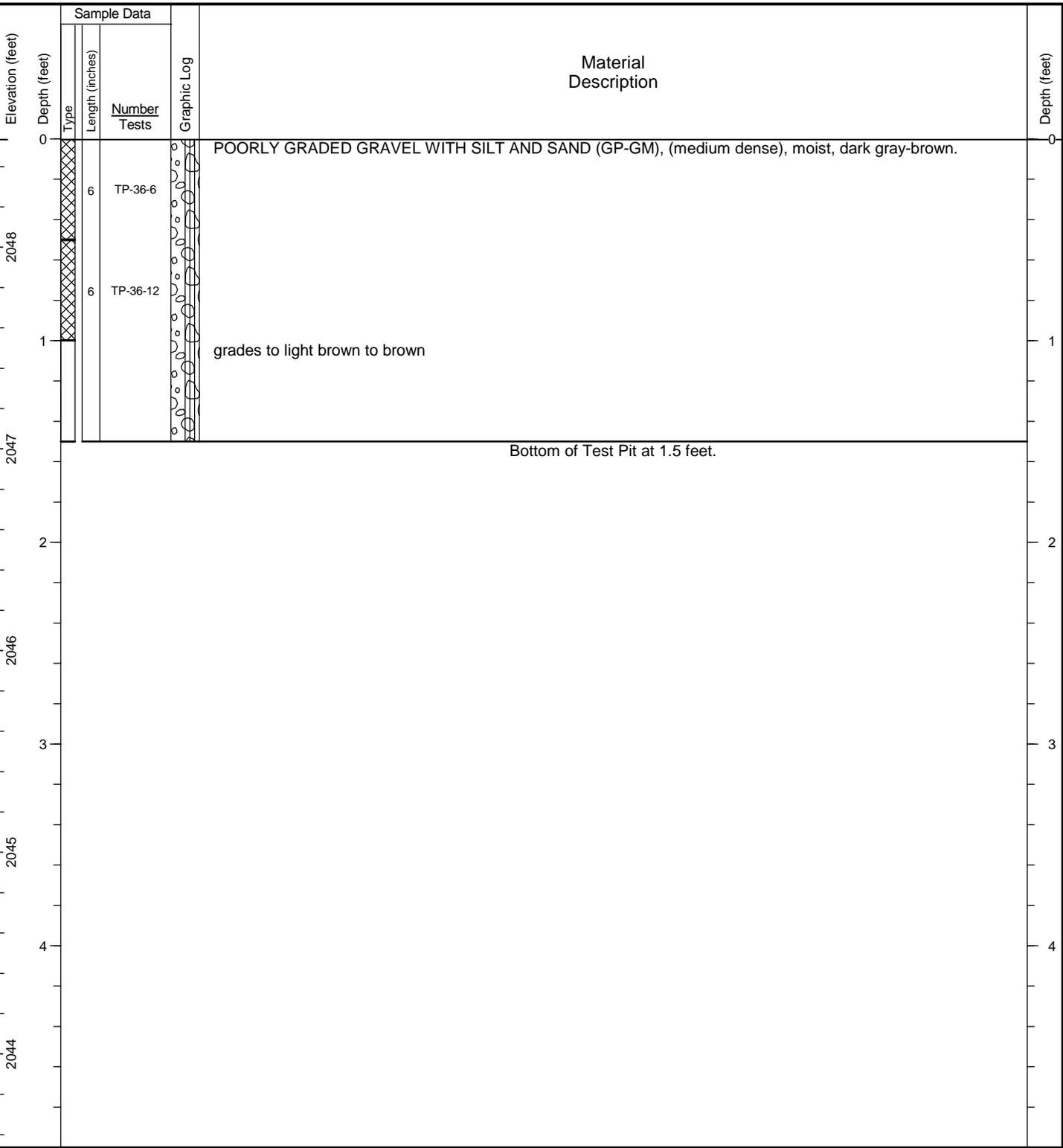
Date Started: 9/25/18 Date Completed: 9/25/18 Contractor/Crew: _____
 Logged by: K. Huddleston/W. McDonald Checked by: _____ Rig Model/Type: _____
 Location: Lat: 47.658253 Long: -117.136033 (WA State Plane N, NAD 83, ft.) Total Depth: 1.5 feet Depth to Seepage: Not Encountered
 Ground Surface Elevation: 2,048.31 feet (NAVD 88)
 Comments: _____



General Notes:
 1. Refer to Figure A-1 for explanation of descriptions and symbols.
 2. Material stratum lines are interpretive and actual changes may be gradual. Solid lines indicate distinct contacts and dashed lines indicate gradual or approximate contacts.
 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.
 5. Location and ground surface elevations are approximate.

HC TEST PIT - \HALEYALDRICH.COM\SHARE\SEA_DATA\GINT\HC_LIBRARY.GLB - 6/1/21 12:30 - \HALEYALDRICH.COM\SHARE\IPDX_DATA\NOTEBOOKS\150014004_CVSD_REMEDIAL_INVESTIGATION-FEASIBILITY_STUDY\FIELD_DATA\PERM_GINT_FILES\150014004-BL

Date Started: <u>9/25/18</u>	Date Completed: <u>9/25/18</u>	Contractor/Crew: _____
Logged by: <u>K. Huddleston/W. McDonald</u>	Checked by: _____	Rig Model/Type: _____
Location: <u>Lat: 47.658238 Long: -117.135253 (WA State Plane N, NAD 83, ft.)</u>	Total Depth: <u>1.5 feet</u>	Depth to Seepage: <u>Not Encountered</u>
Ground Surface Elevation: <u>2,048.54 feet (NAVD 88)</u>	Comments: _____	

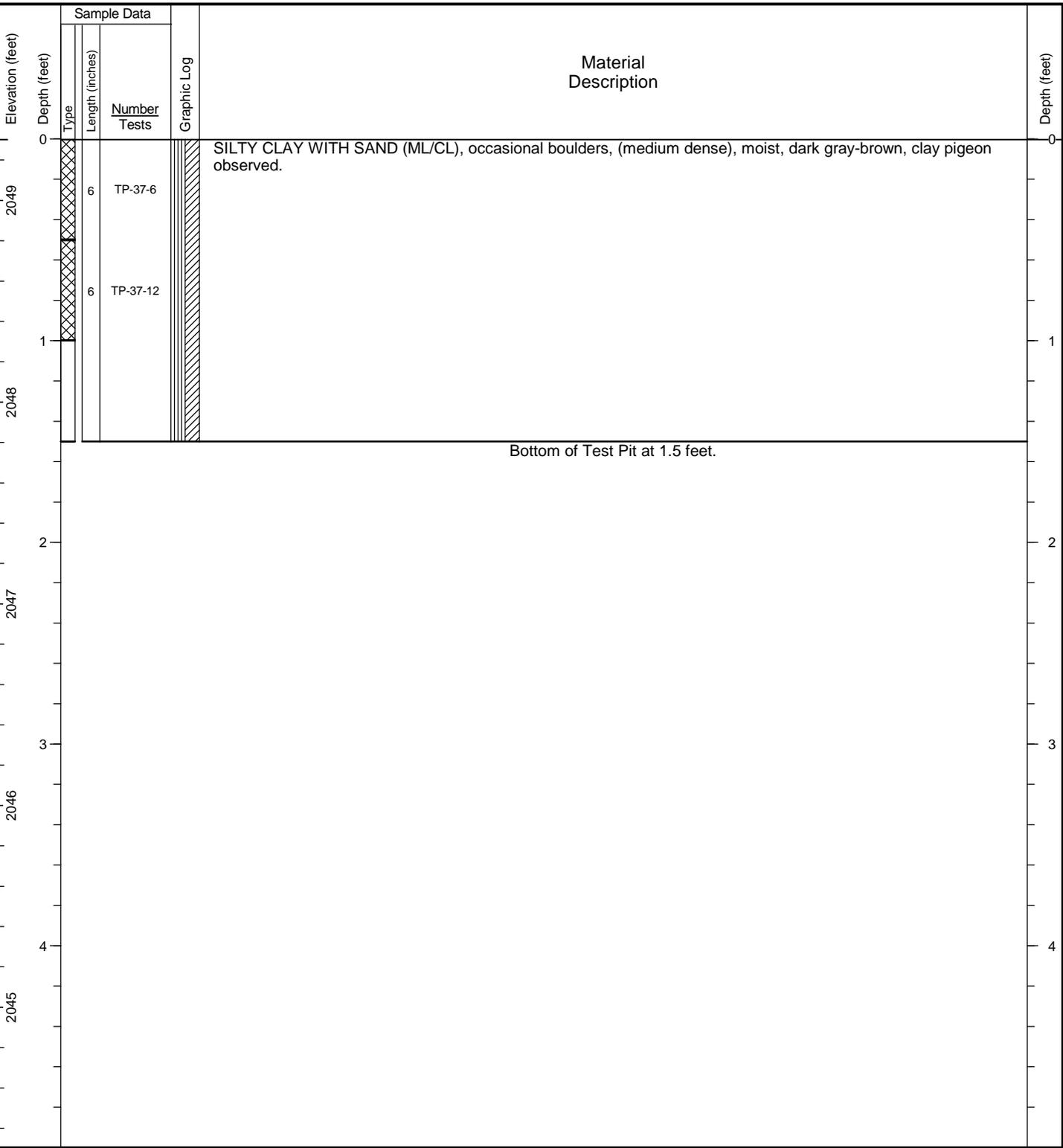


General Notes:

1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Material stratum lines are interpretive and actual changes may be gradual. Solid lines indicate distinct contacts and dashed lines indicate gradual or approximate contacts.
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.
5. Location and ground surface elevations are approximate.

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Date Started: <u>9/25/18</u>	Date Completed: <u>9/25/18</u>	Contractor/Crew: _____
Logged by: <u>K. Huddleston/W. McDonald</u>	Checked by: _____	Rig Model/Type: _____
Location: <u>Lat: 47.658115 Long: -117.135831 (WA State Plane N, NAD 83, ft.)</u>		Total Depth: <u>1.5 feet</u> Depth to Seepage: <u>Not Encountered</u>
Ground Surface Elevation: <u>2,049.30 feet (NAVD 88)</u>		
Comments: _____		

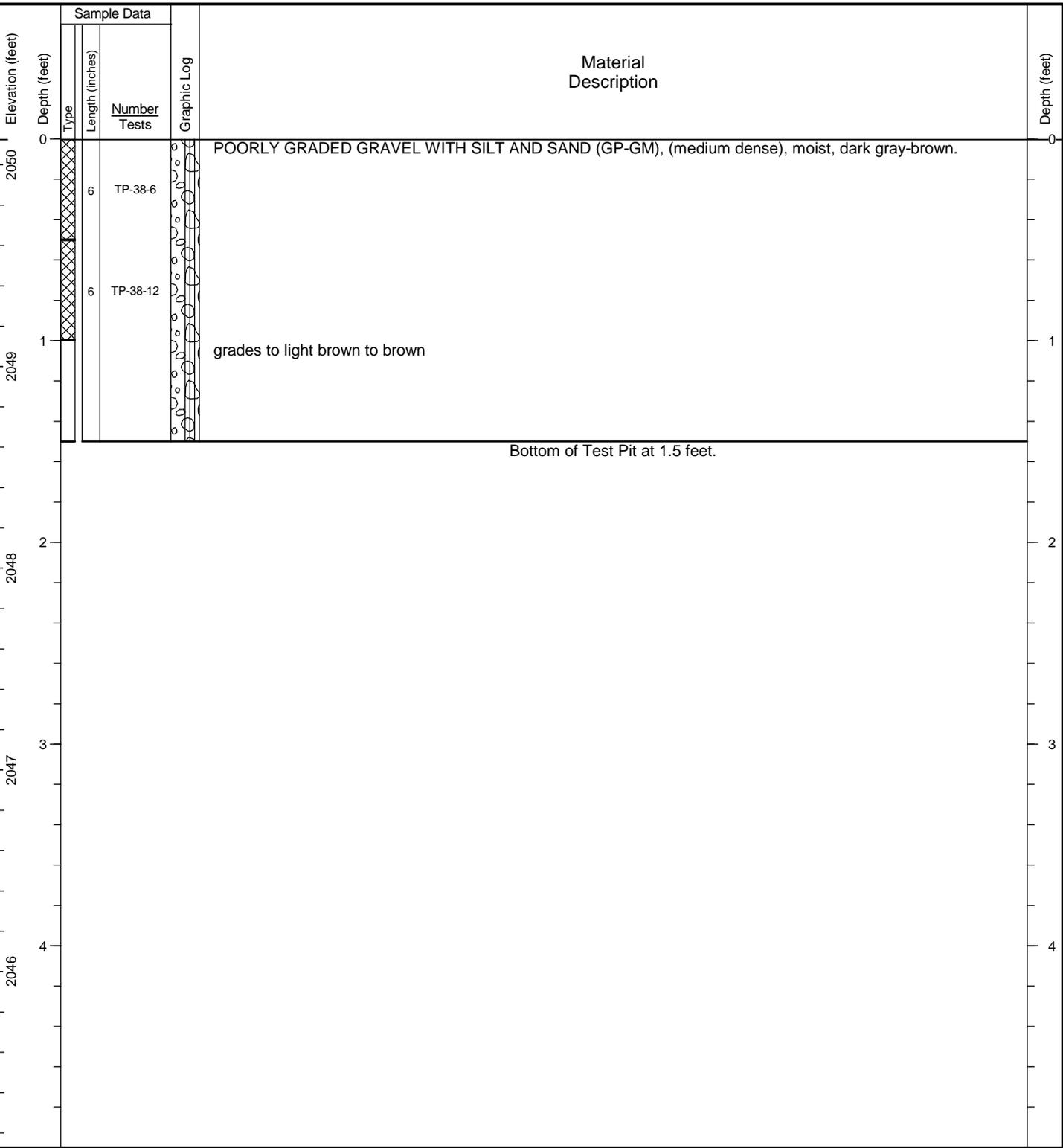


General Notes:

1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Material stratum lines are interpretive and actual changes may be gradual. Solid lines indicate distinct contacts and dashed lines indicate gradual or approximate contacts.
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.
5. Location and ground surface elevations are approximate.

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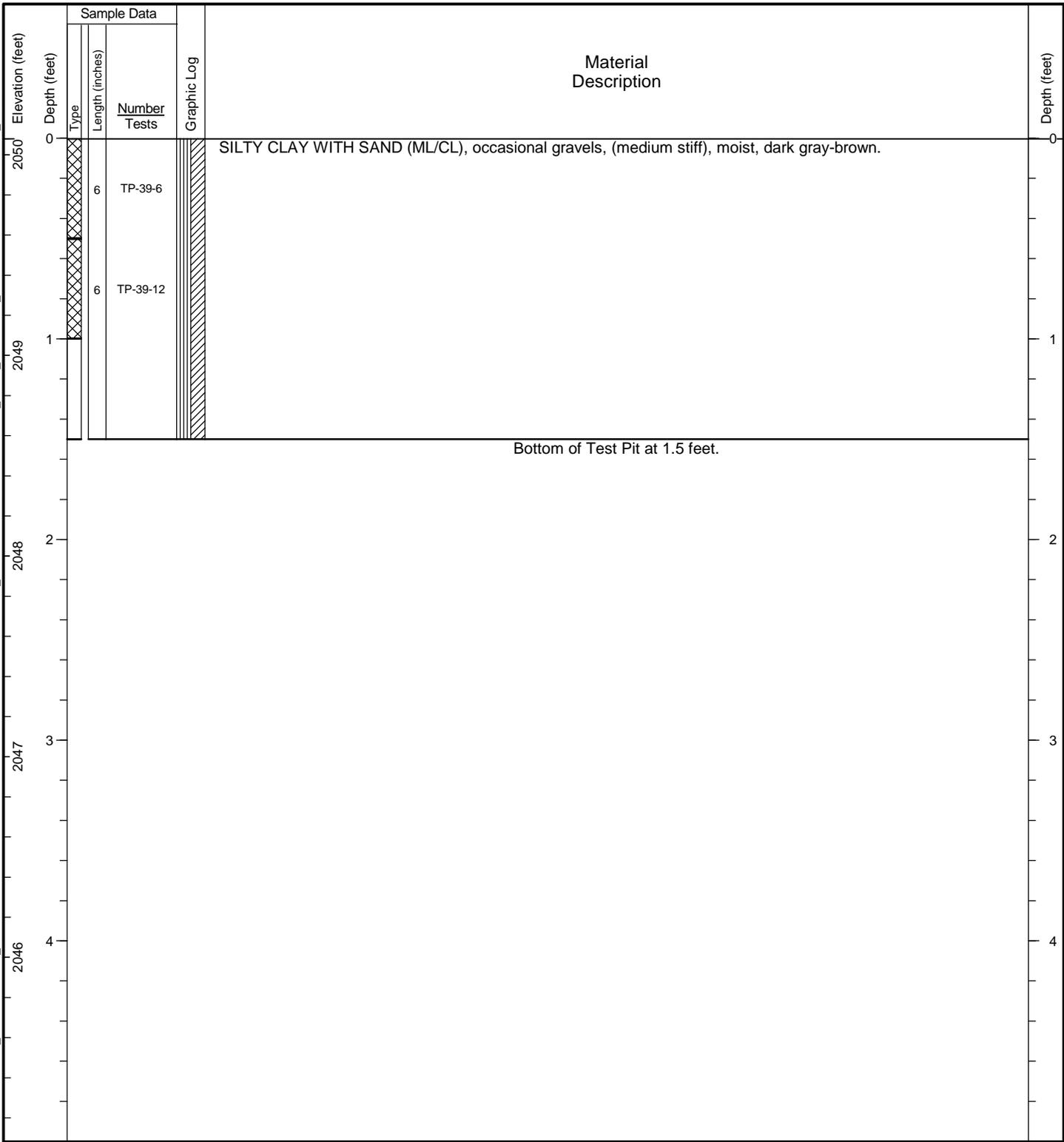
Date Started: 9/25/18 Date Completed: 9/25/18 Contractor/Crew: _____
 Logged by: K. Huddleston/W. McDonald Checked by: _____ Rig Model/Type: _____
 Location: Lat: 47.658105 Long: -117.135417 (WA State Plane N, NAD 83, ft.) Total Depth: 1.5 feet Depth to Seepage: Not Encountered
 Ground Surface Elevation: 2,050.13 feet (NAVD 88)
 Comments: _____



General Notes:
 1. Refer to Figure A-1 for explanation of descriptions and symbols.
 2. Material stratum lines are interpretive and actual changes may be gradual. Solid lines indicate distinct contacts and dashed lines indicate gradual or approximate contacts.
 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.
 5. Location and ground surface elevations are approximate.

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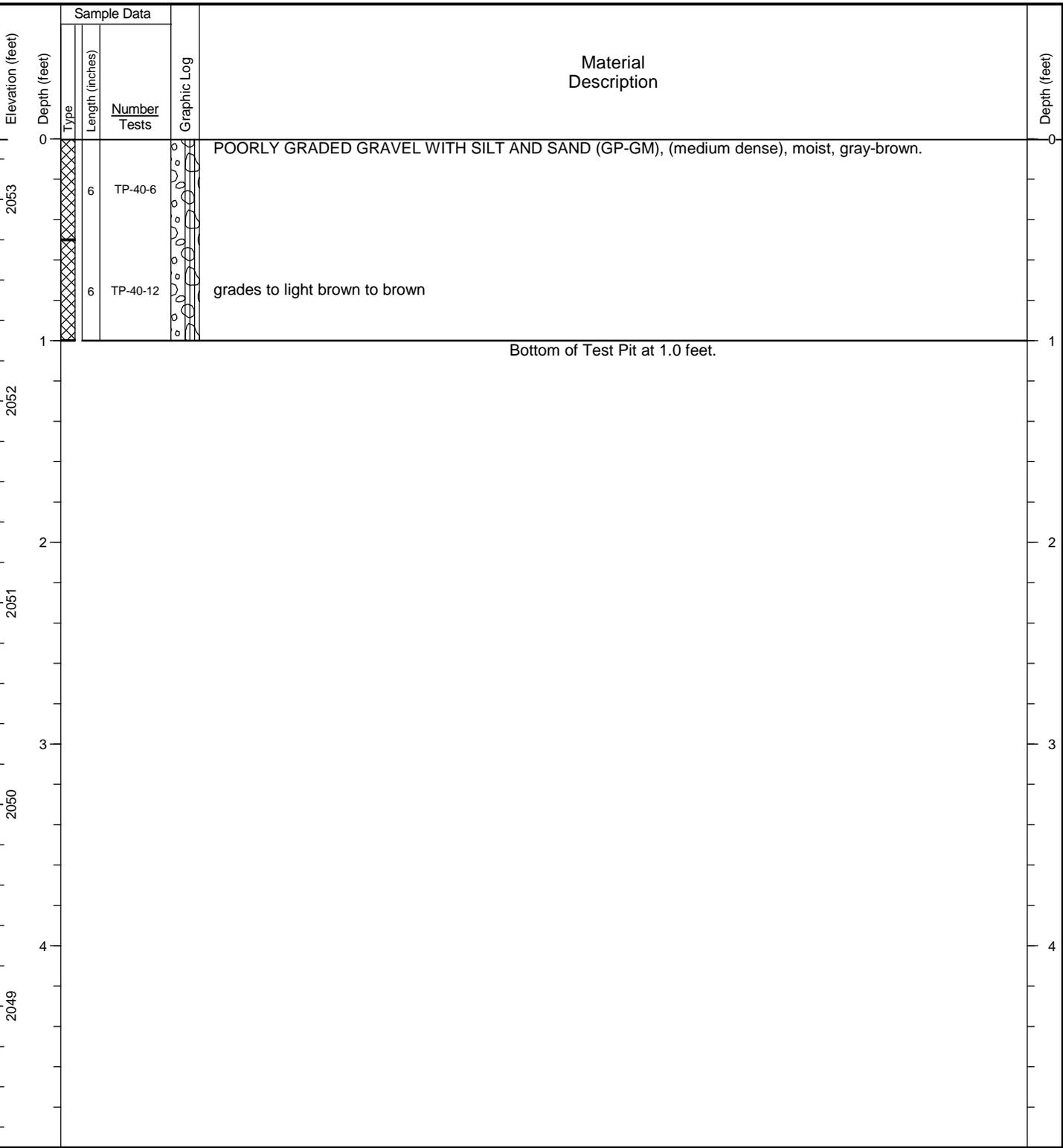
Date Started: 9/25/18 Date Completed: 9/25/18 Contractor/Crew: _____
 Logged by: K. Huddleston/W. McDonald Checked by: _____ Rig Model/Type: _____
 Location: Lat: 47.658032 Long: -117.136050 (WA State Plane N, NAD 83, ft.) Total Depth: 1.5 feet Depth to Seepage: Not Encountered
 Ground Surface Elevation: 2,050.08 feet (NAVD 88)
 Comments: _____



General Notes:
 1. Refer to Figure A-1 for explanation of descriptions and symbols.
 2. Material stratum lines are interpretive and actual changes may be gradual. Solid lines indicate distinct contacts and dashed lines indicate gradual or approximate contacts.
 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.
 5. Location and ground surface elevations are approximate.

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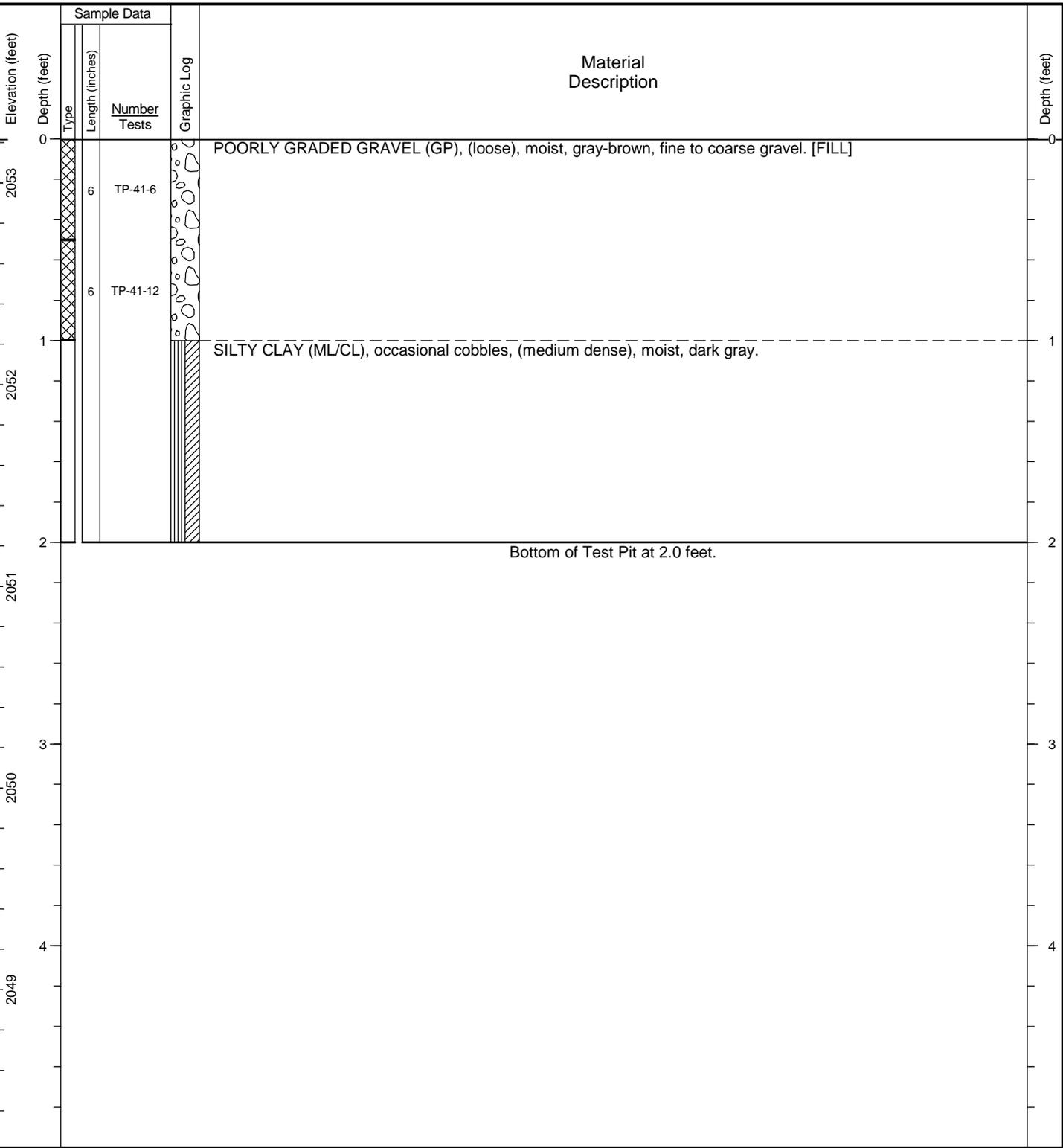
Date Started: 9/25/18 Date Completed: 9/25/18 Contractor/Crew: _____
 Logged by: K. Huddleston/W. McDonald Checked by: _____ Rig Model/Type: _____
 Location: Lat: 47.657982 Long: -117.135227 (WA State Plane N, NAD 83, ft.) Total Depth: 1 feet Depth to Seepage: Not Encountered
 Ground Surface Elevation: 2,053.30 feet (NAVD 88)
 Comments: _____



General Notes:
 1. Refer to Figure A-1 for explanation of descriptions and symbols.
 2. Material stratum lines are interpretive and actual changes may be gradual. Solid lines indicate distinct contacts and dashed lines indicate gradual or approximate contacts.
 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.
 5. Location and ground surface elevations are approximate.

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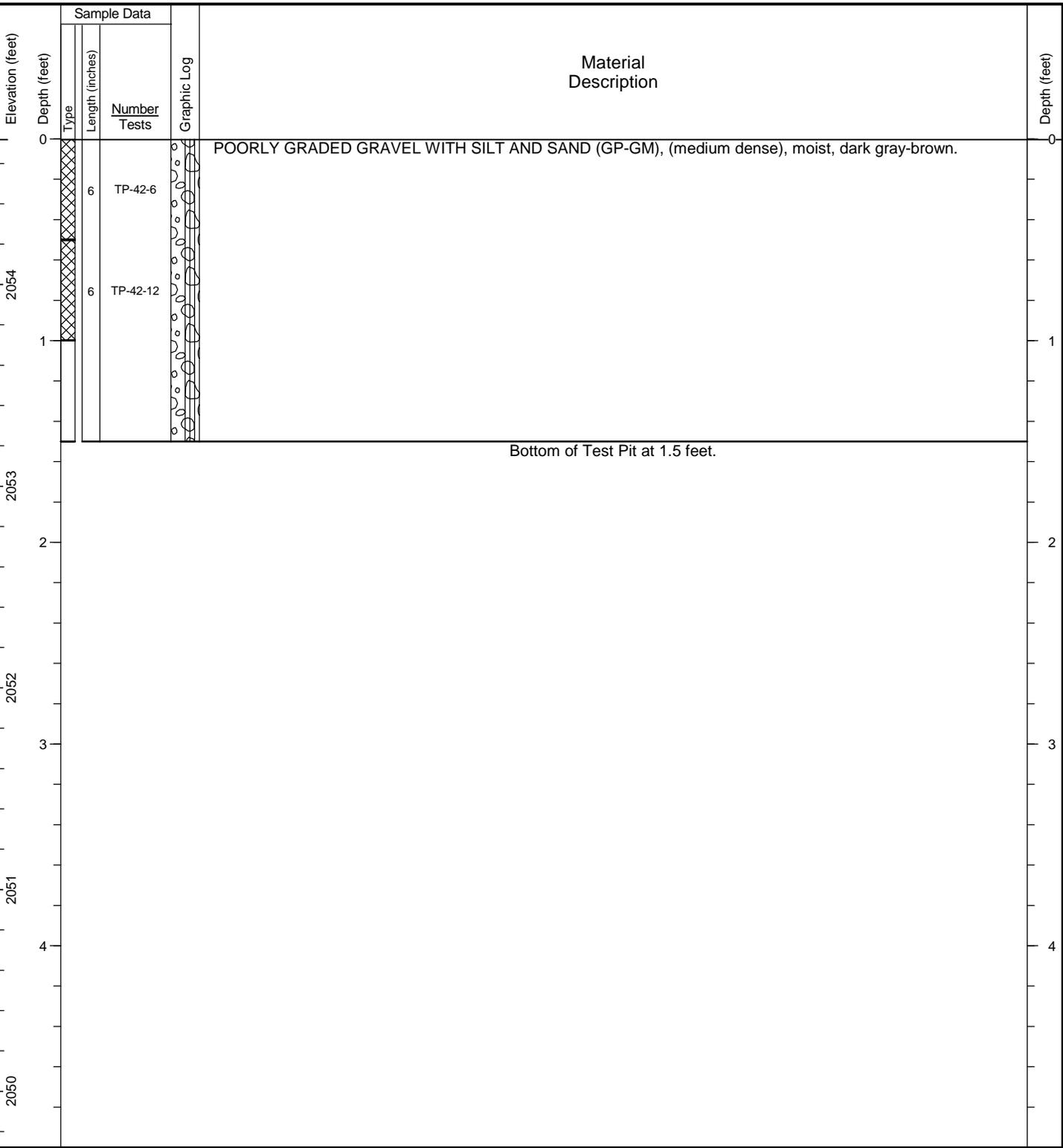
Date Started: 9/25/18 Date Completed: 9/25/18 Contractor/Crew: _____
 Logged by: K. Huddleston/W. McDonald Checked by: _____ Rig Model/Type: _____
 Location: Lat: 47.657901 Long: -117.135845 (WA State Plane N, NAD 83, ft.) Total Depth: 2 feet Depth to Seepage: Not Encountered
 Ground Surface Elevation: 2,053.22 feet (NAVD 88)
 Comments: _____



General Notes:
 1. Refer to Figure A-1 for explanation of descriptions and symbols.
 2. Material stratum lines are interpretive and actual changes may be gradual. Solid lines indicate distinct contacts and dashed lines indicate gradual or approximate contacts.
 3. USCS designations are based on visual-manual identification (ASTM D 2488), unless otherwise supported by laboratory testing (ASTM D 2487).
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 5. Location and ground surface elevations are approximate.

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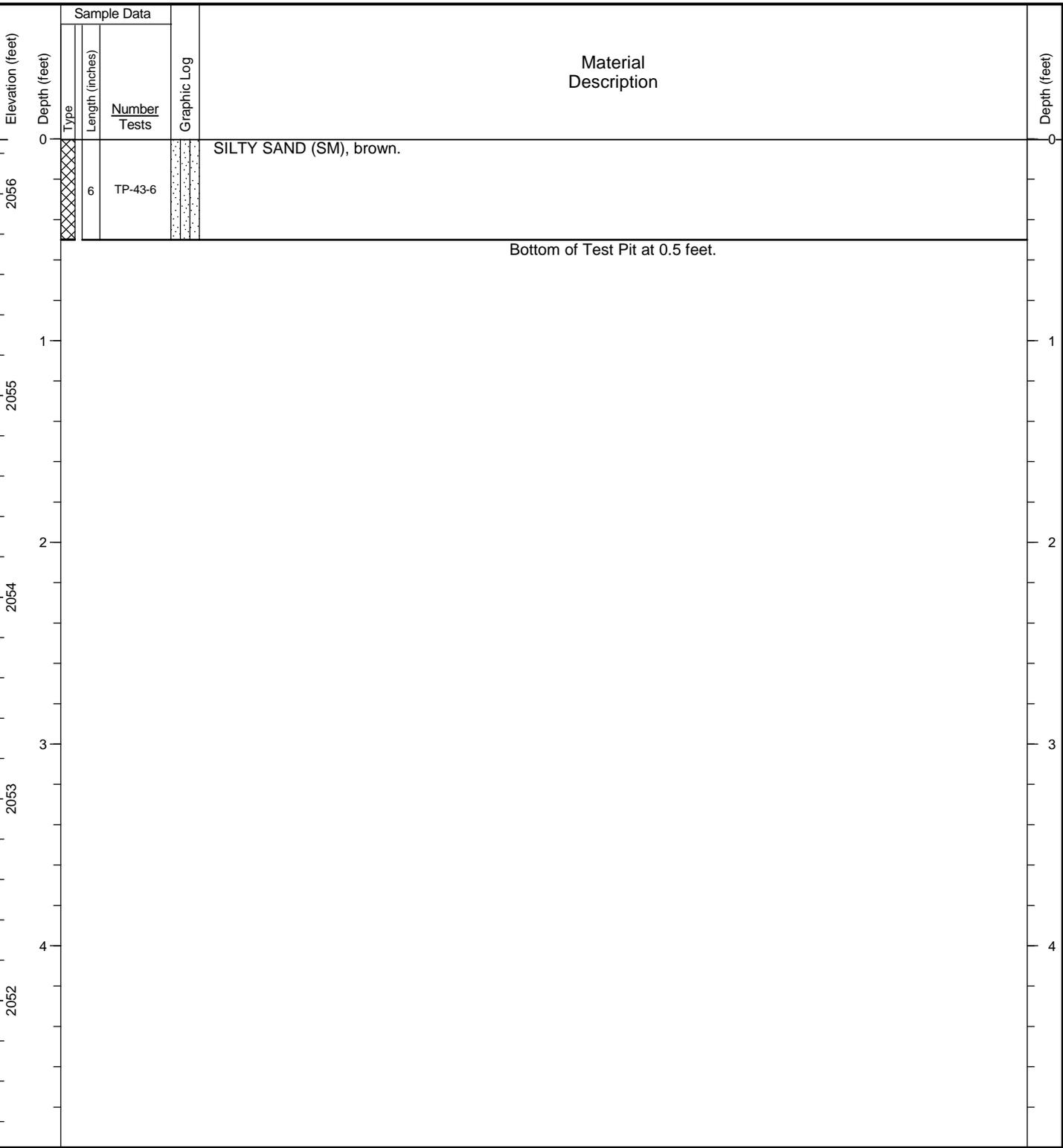
Date Started: 9/25/18 Date Completed: 9/25/18 Contractor/Crew: _____
 Logged by: K. Huddleston/W. McDonald Checked by: _____ Rig Model/Type: _____
 Location: Lat: 47.657854 Long: -117.135431 (WA State Plane N, NAD 83, ft.) Total Depth: 1.5 feet Depth to Seepage: Not Encountered
 Ground Surface Elevation: 2,054.72 feet (NAVD 88)
 Comments: _____



General Notes:
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 2. Material stratum lines are interpretive and actual changes may be gradual. Solid lines indicate distinct contacts and dashed lines indicate gradual or approximate contacts.
 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.
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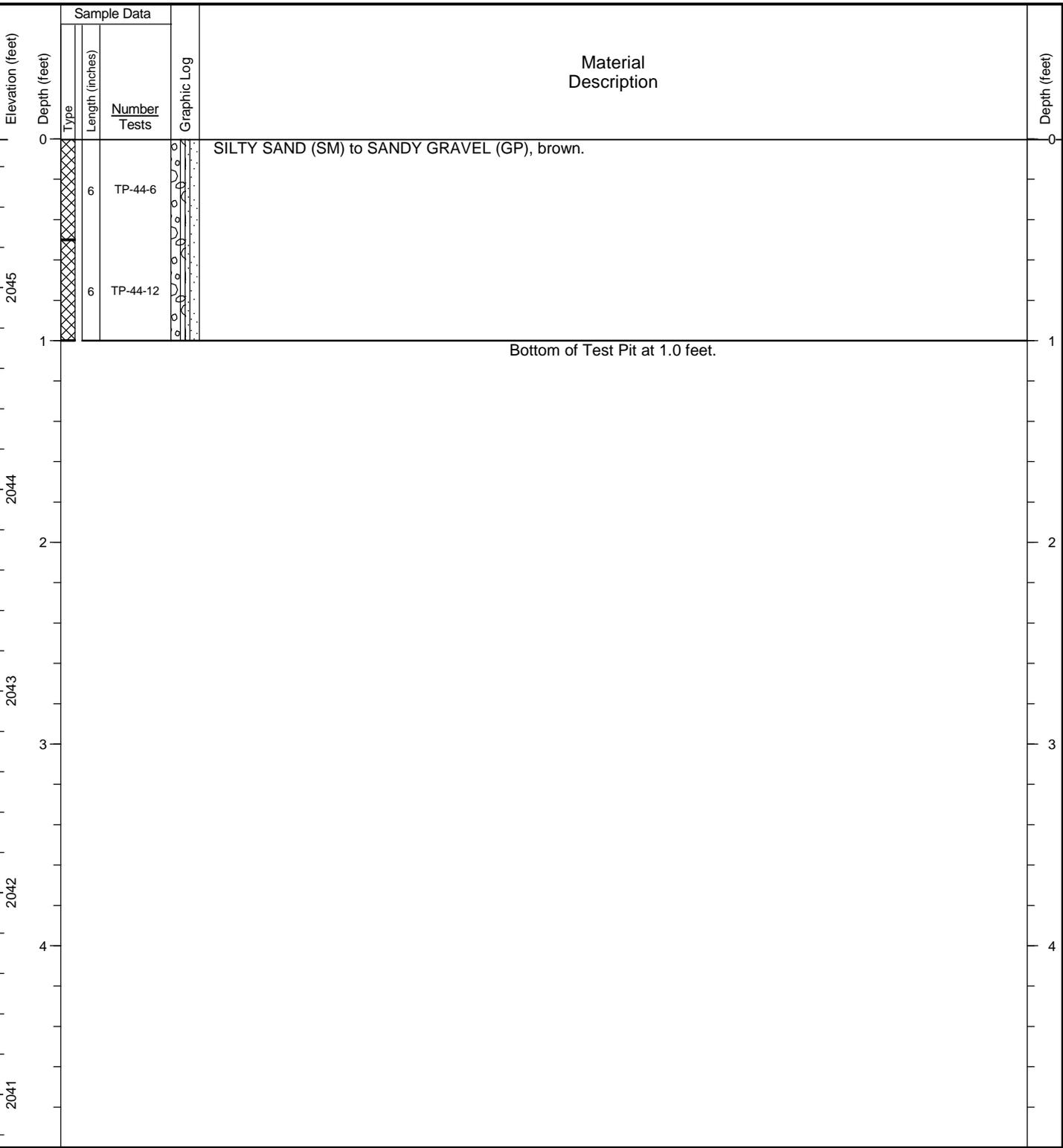
Date Started: 9/25/18 Date Completed: 9/25/18 Contractor/Crew: _____
 Logged by: K. Huddleston/W. McDonald Checked by: _____ Rig Model/Type: _____
 Location: Lat: 47.657724 Long: -117.135629 (WA State Plane N, NAD 83, ft.) Total Depth: 0.5 feet Depth to Seepage: Not Encountered
 Ground Surface Elevation: 2,056.27 feet (NAVD 88)
 Comments: _____



General Notes:
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 4. Groundwater level, if indicated, is at time of drilling/excavation (ATD) or for date specified. Level may vary with time.
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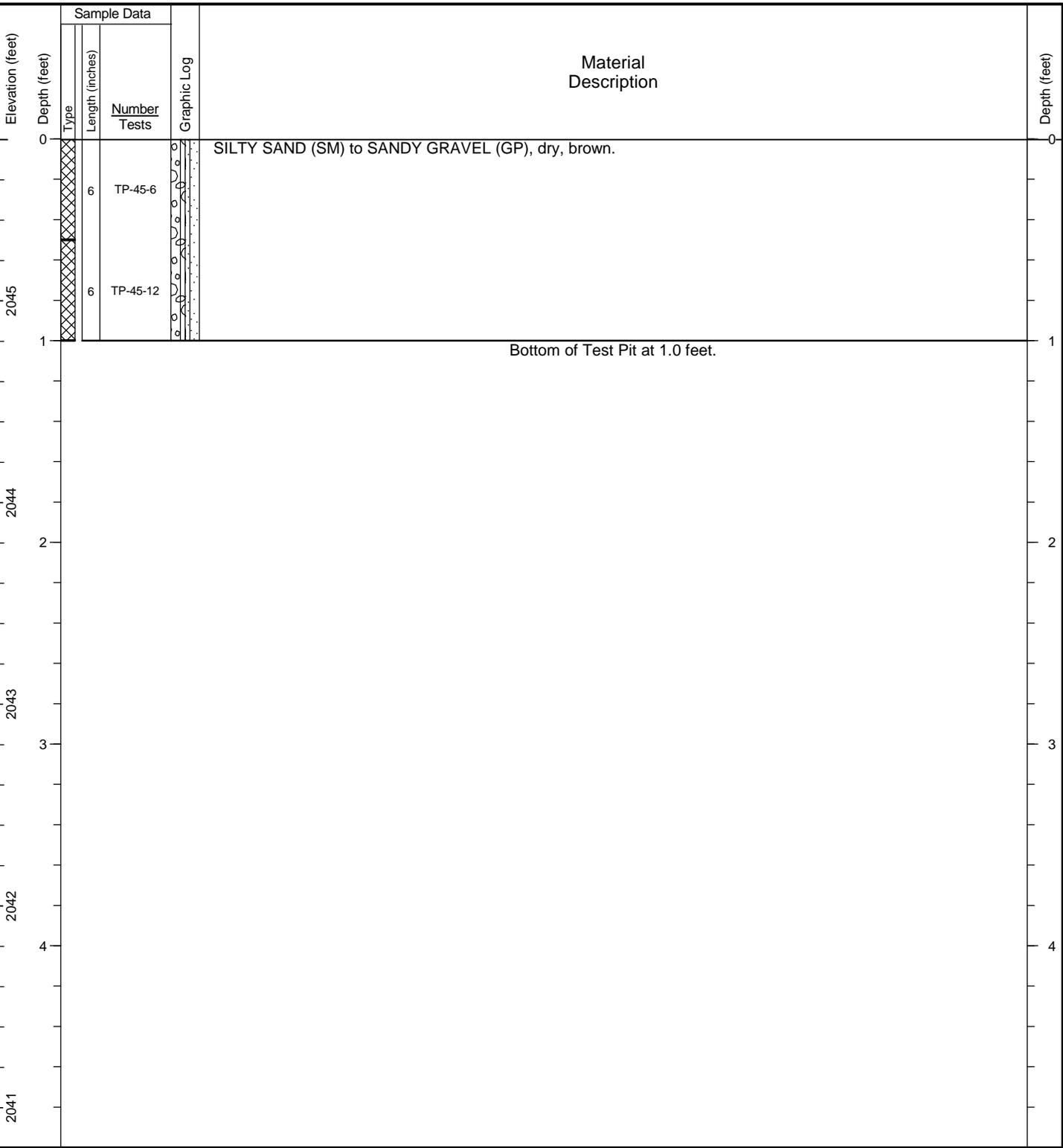
Date Started: 11/8/18 Date Completed: 11/8/18 Contractor/Crew: _____
 Logged by: K. Huddleston/W. McDonald Checked by: _____ Rig Model/Type: _____
 Location: Lat: 47.658714 Long: -117.137507 (WA State Plane N, NAD 83, ft.) Total Depth: 1 feet Depth to Seepage: Not Encountered
 Ground Surface Elevation: 2,045.74 feet (NAVD 88)
 Comments: _____



General Notes:
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 4. Groundwater level, if indicated, is at time of drilling/excavation (ATD) or for date specified. Level may vary with time.
 5. Location and ground surface elevations are approximate.

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Date Started: <u>11/8/18</u>	Date Completed: <u>11/8/18</u>	Contractor/Crew: _____
Logged by: <u>K. Huddleston/W. McDonald</u>	Checked by: _____	Rig Model/Type: _____
Location: <u>Lat: 47.658714 Long: -117.137111 (WA State Plane N, NAD 83, ft.)</u>	Total Depth: <u>1 feet</u>	Depth to Seepage: <u>Not Encountered</u>
Ground Surface Elevation: <u>2,045.80 feet (NAVD 88)</u>	Comments: _____	

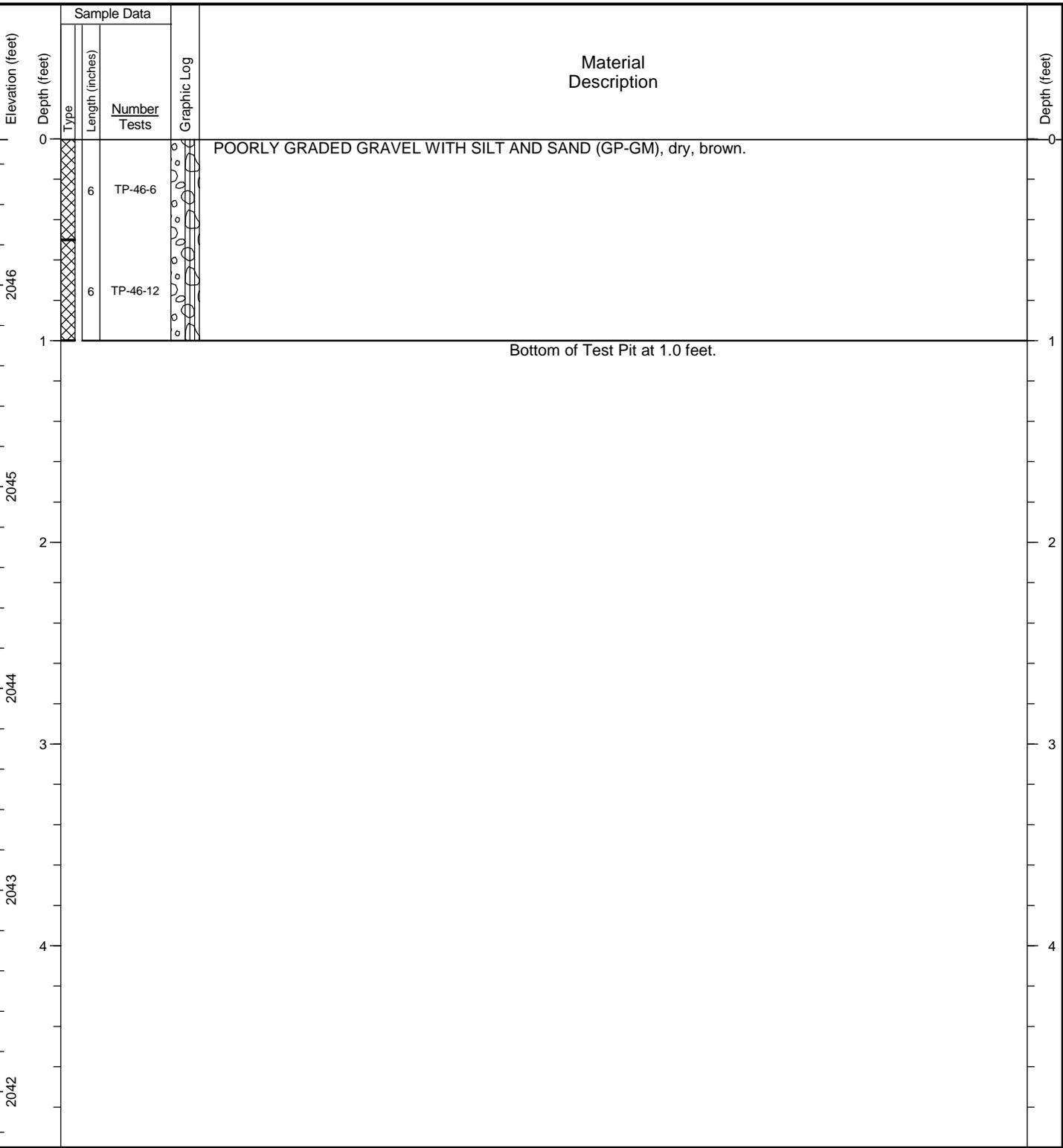


General Notes:

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Date Started: 11/8/18 Date Completed: 11/8/18 Contractor/Crew: _____
 Logged by: K. Huddleston/W. McDonald Checked by: _____ Rig Model/Type: _____
 Location: Lat: 47.658713 Long: -117.136720 (WA State Plane N, NAD 83, ft.) Total Depth: 1 feet Depth to Seepage: Not Encountered
 Ground Surface Elevation: 2,046.72 feet (NAVD 88)
 Comments: _____



General Notes:
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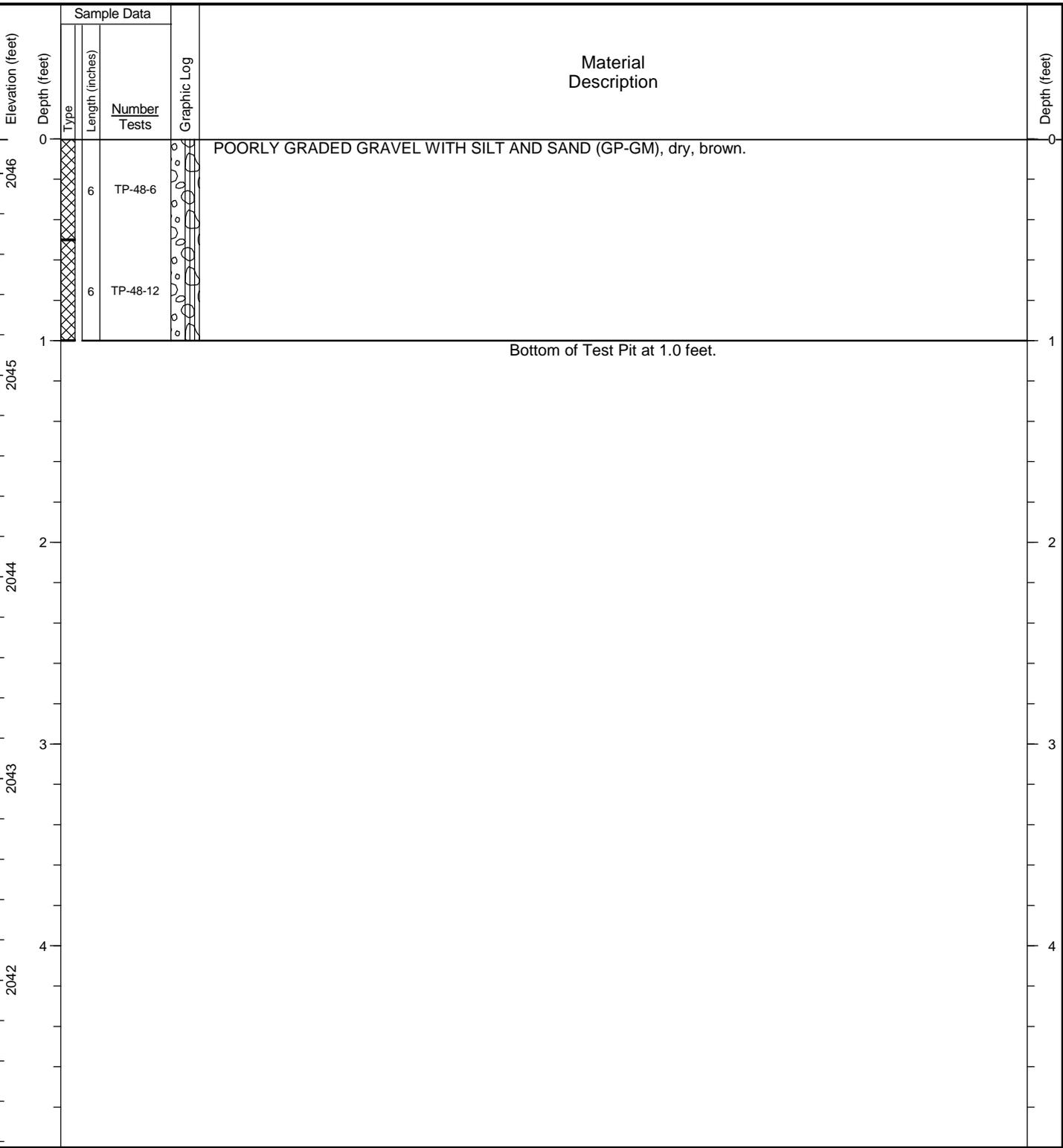
Date Started: 11/8/18 Date Completed: 11/8/18 Contractor/Crew: _____
 Logged by: K. Huddleston/W. McDonald Checked by: _____ Rig Model/Type: _____
 Location: Lat: 47.658713 Long: -117.136261 (WA State Plane N, NAD 83, ft.) Total Depth: 1 feet Depth to Seepage: Not Encountered
 Ground Surface Elevation: 2,046.50 feet (NAVD 88)
 Comments: _____

Elevation (feet)	Depth (feet)	Sample Data			Graphic Log	Material Description	Depth (feet)
		Type	Length (inches)	Number Tests			
2046	0					SANDY SILT WITH GRAVEL (ML), dry, brown.	0
	6			TP-47-6			
	6			TP-47-12			
	1	Bottom of Test Pit at 1.0 feet.					1
2045							
	2						2
2044							
	3						3
2043							
	4						4
2042							

General Notes:
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Date Started: <u>11/8/18</u>	Date Completed: <u>11/8/18</u>	Contractor/Crew: _____
Logged by: <u>K. Huddleston/W. McDonald</u>	Checked by: _____	Rig Model/Type: _____
Location: <u>Lat: 47.658327 Long: -117.137510 (WA State Plane N, NAD 83, ft.)</u>	Total Depth: <u>1 feet</u>	Depth to Seepage: <u>Not Encountered</u>
Ground Surface Elevation: <u>2,046.17 feet (NAVD 88)</u>	Comments: _____	

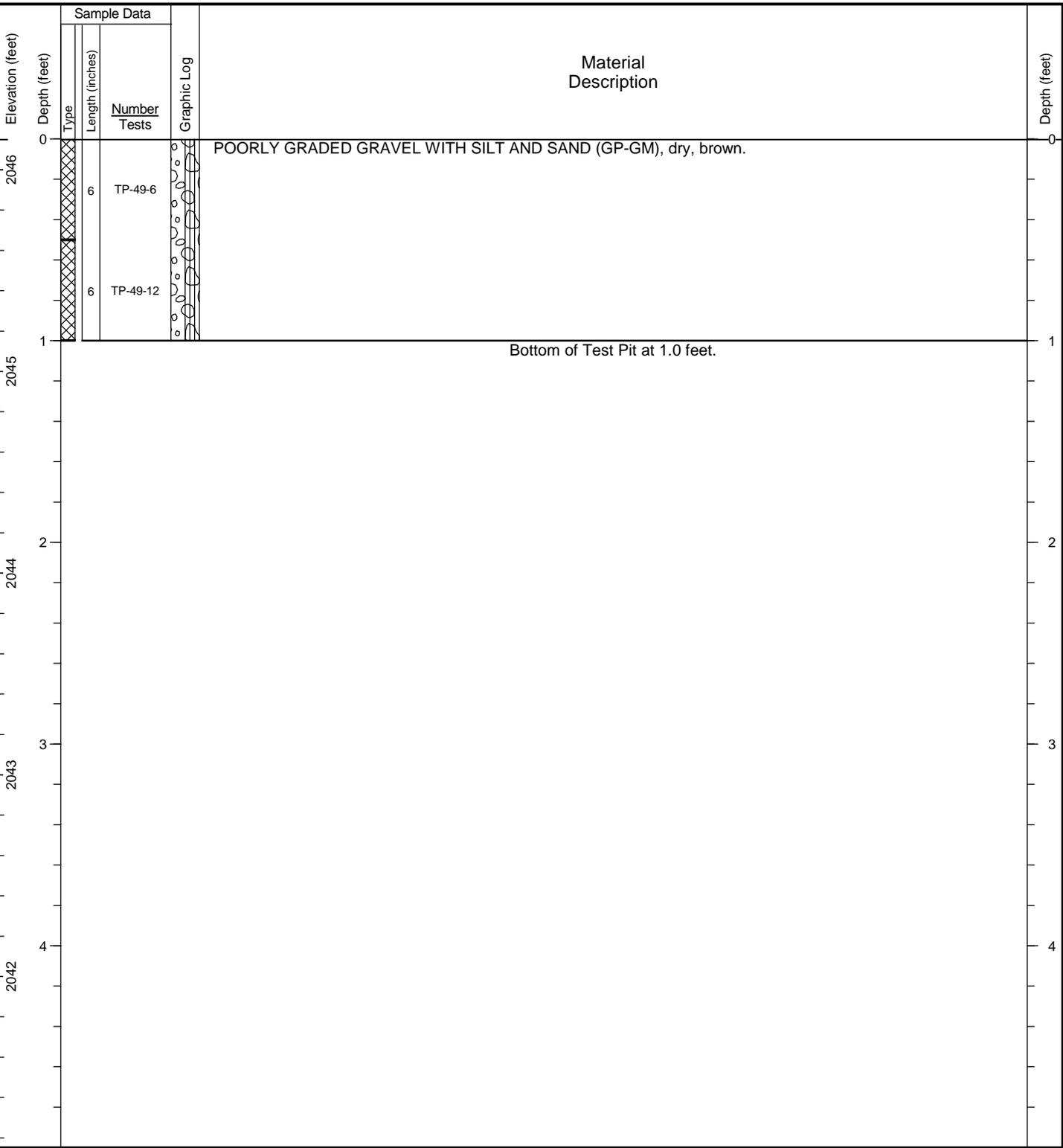


General Notes:

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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.
5. Location and ground surface elevations are approximate.

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Date Started: <u>11/8/18</u>	Date Completed: <u>11/8/18</u>	Contractor/Crew: _____
Logged by: <u>K. Huddleston/W. McDonald</u>	Checked by: _____	Rig Model/Type: _____
Location: <u>Lat: 47.658306 Long: -117.136941 (WA State Plane N, NAD 83, ft.)</u>	Total Depth: <u>1 feet</u>	Depth to Seepage: <u>Not Encountered</u>
Ground Surface Elevation: <u>2,046.15 feet (NAVD 88)</u>	Comments: _____	

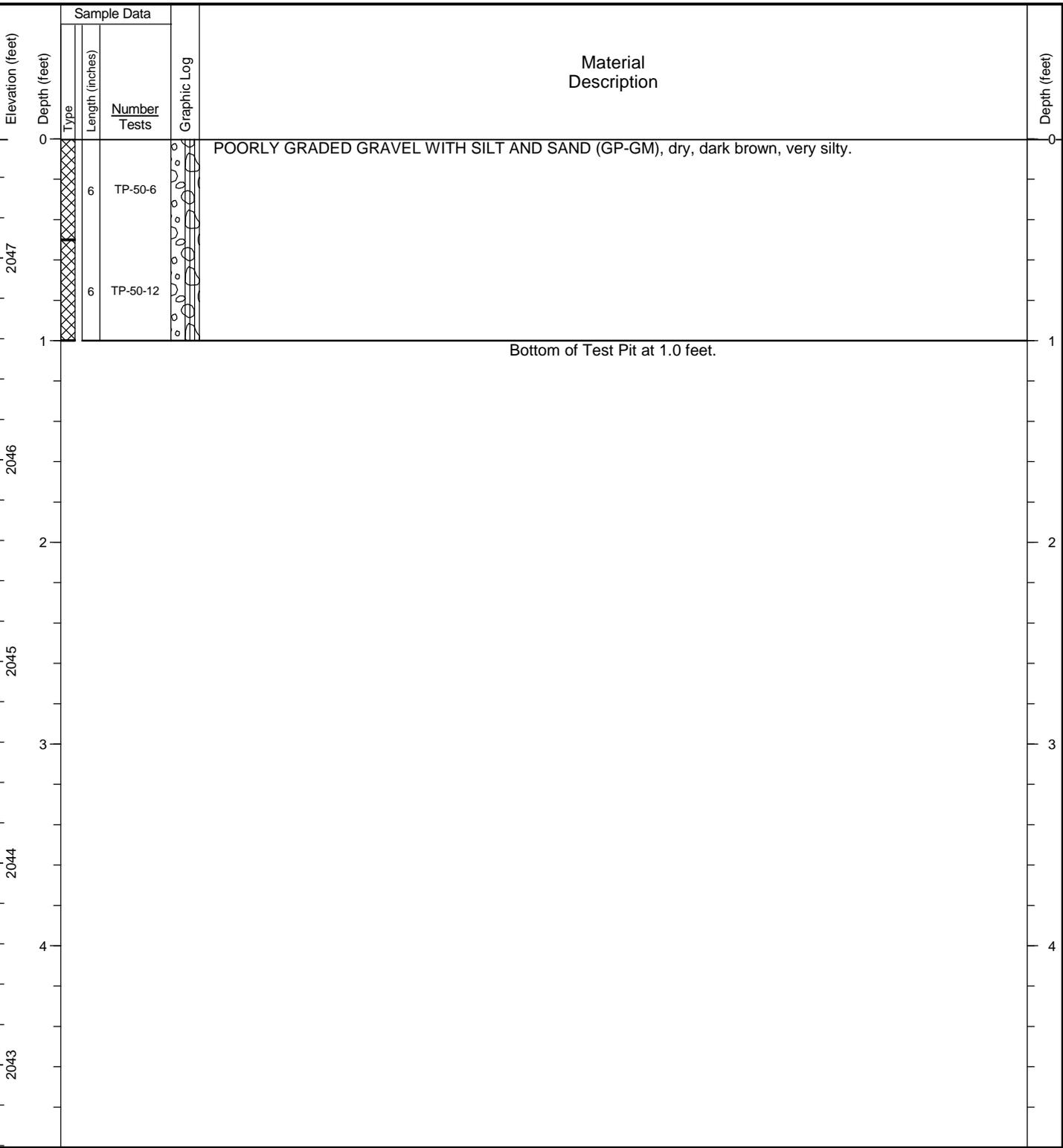


General Notes:

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4. Groundwater level, if indicated, is at time of drilling/excavation (ATD) or for date specified. Level may vary with time.
5. Location and ground surface elevations are approximate.

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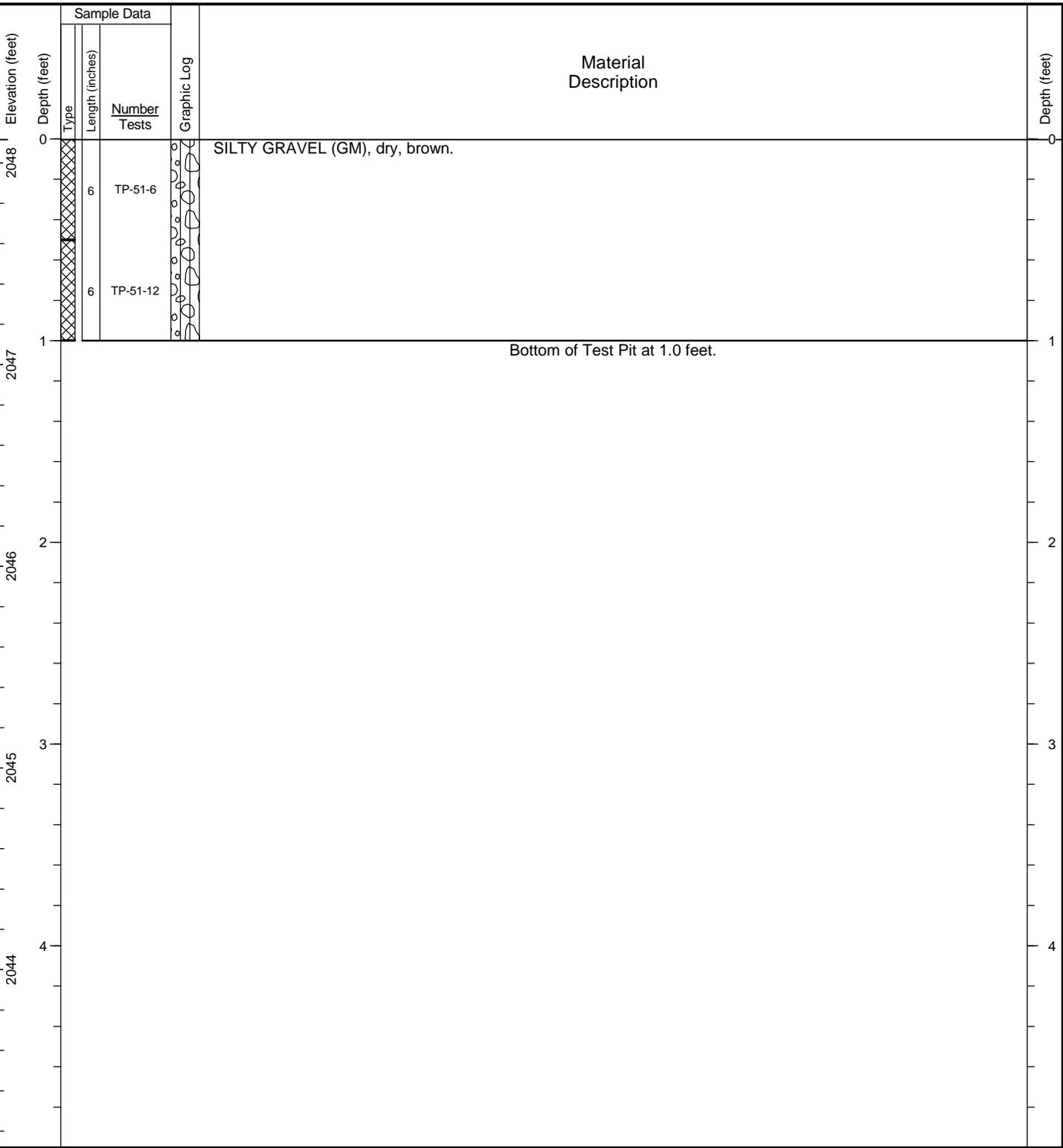
Date Started: 11/8/18 Date Completed: 11/8/18 Contractor/Crew: _____
 Logged by: K. Huddleston/W. McDonald Checked by: _____ Rig Model/Type: _____
 Location: Lat: 47.658302 Long: -117.136400 (WA State Plane N, NAD 83, ft.) Total Depth: 1 feet Depth to Seepage: Not Encountered
 Ground Surface Elevation: 2,047.59 feet (NAVD 88)
 Comments: _____



General Notes:
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 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.
 5. Location and ground surface elevations are approximate.

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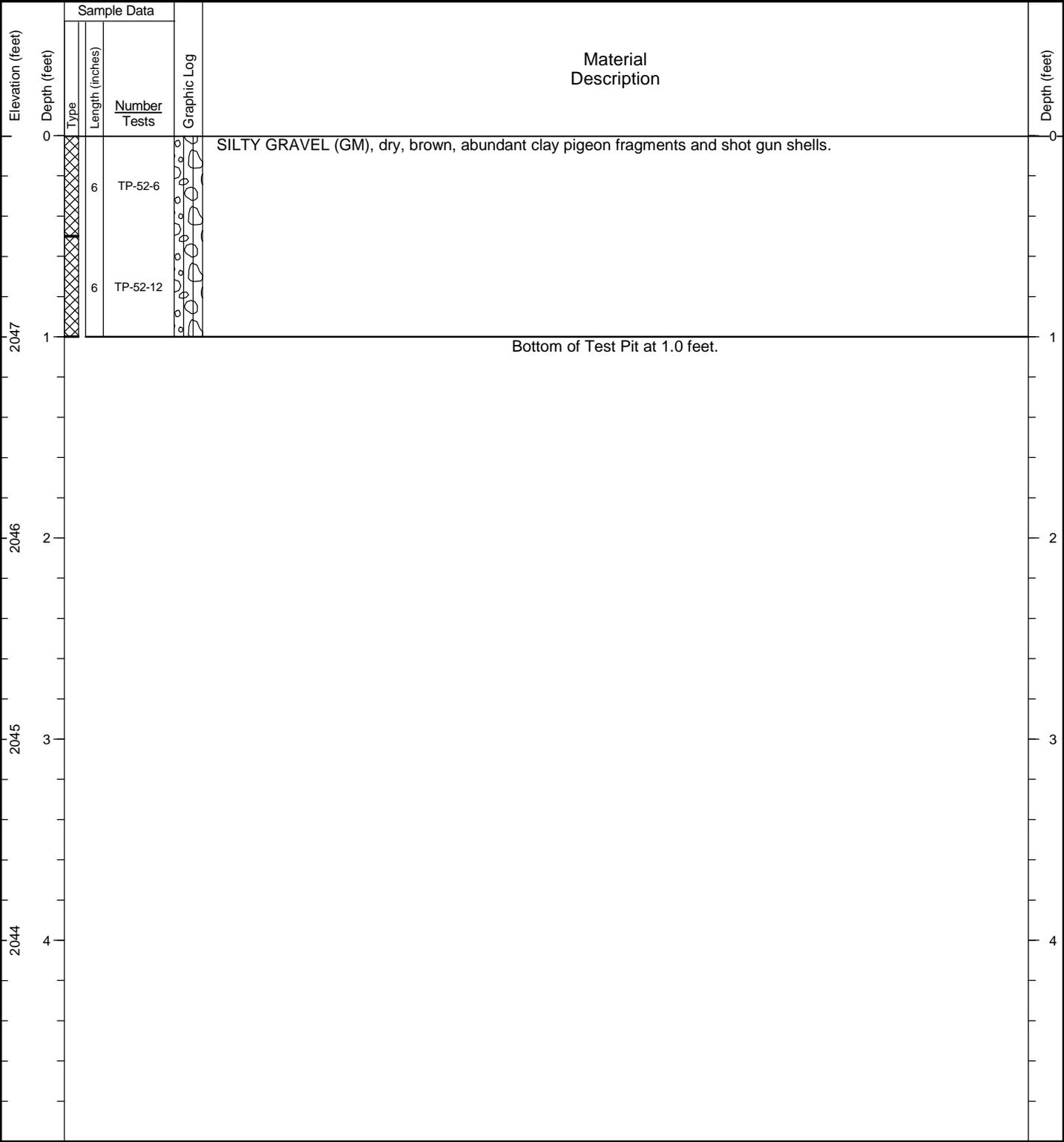
Date Started: 11/8/18 Date Completed: 11/8/18 Contractor/Crew: _____
 Logged by: K. Huddleston/W. McDonald Checked by: _____ Rig Model/Type: _____
 Location: Lat: 47.657921 Long: -117.137494 (WA State Plane N, NAD 83, ft.) Total Depth: 1 feet Depth to Seepage: Not Encountered
 Ground Surface Elevation: 2,048.12 feet (NAVD 88)
 Comments: _____



General Notes:
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 4. Groundwater level, if indicated, is at time of drilling/excavation (ATD) or for date specified. Level may vary with time.
 5. Location and ground surface elevations are approximate.

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Date Started: <u>11/8/18</u>	Date Completed: <u>11/8/18</u>	Contractor/Crew: _____
Logged by: <u>K. Huddleston/W. McDonald</u>	Checked by: _____	Rig Model/Type: _____
Location: <u>Lat: 47.658056 Long: -117.136907 (WA State Plane N, NAD 83, ft.)</u>	Total Depth: <u>1 feet</u>	Depth to Seepage: <u>Not Encountered</u>
Ground Surface Elevation: <u>2,048.00 feet (NAVD 88)</u>	Comments: _____	

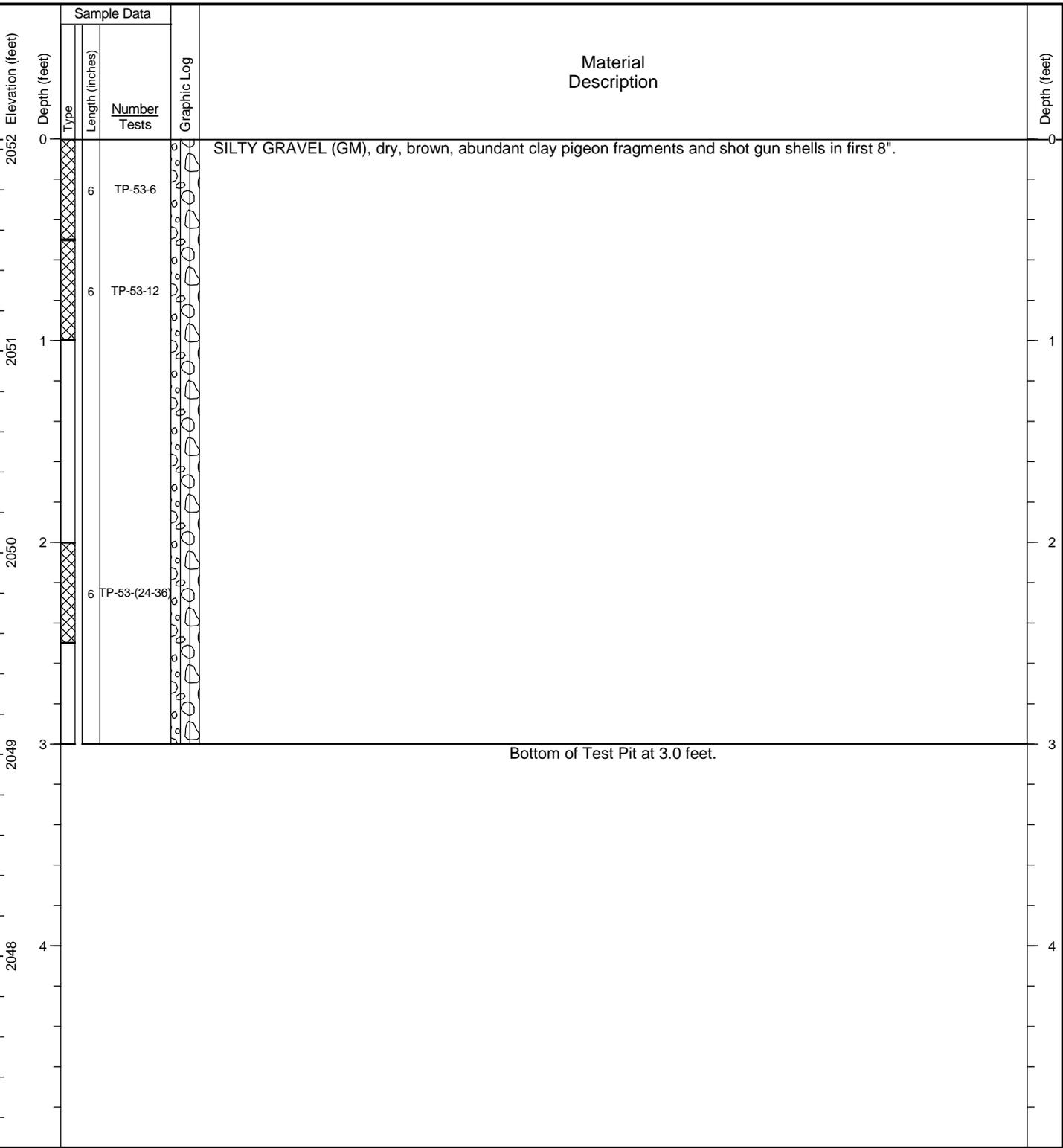


General Notes:

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4. Groundwater level, if indicated, is at time of drilling/excavation (ATD) or for date specified. Level may vary with time.
5. Location and ground surface elevations are approximate.

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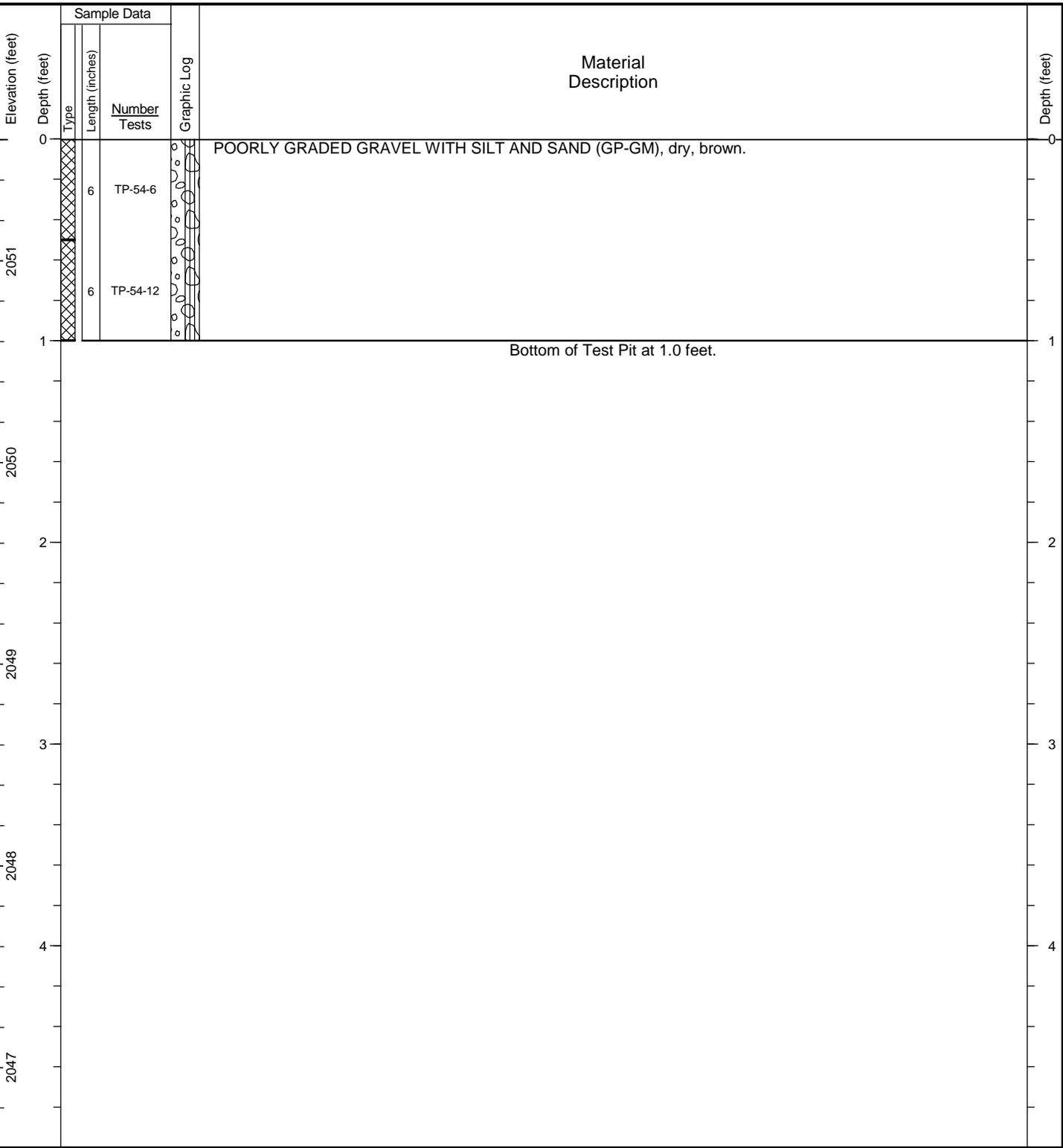
Date Started: 11/8/18 Date Completed: 11/8/18 Contractor/Crew: _____
 Logged by: K. Huddleston/W. McDonald Checked by: _____ Rig Model/Type: _____
 Location: Lat: 47.657896 Long: -117.136293 (WA State Plane N, NAD 83, ft.) Total Depth: 3 feet Depth to Seepage: Not Encountered
 Ground Surface Elevation: 2,052.05 feet (NAVD 88)
 Comments: _____



General Notes:
 1. Refer to Figure A-1 for explanation of descriptions and symbols.
 2. Material stratum lines are interpretive and actual changes may be gradual. Solid lines indicate distinct contacts and dashed lines indicate gradual or approximate contacts.
 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.
 5. Location and ground surface elevations are approximate.

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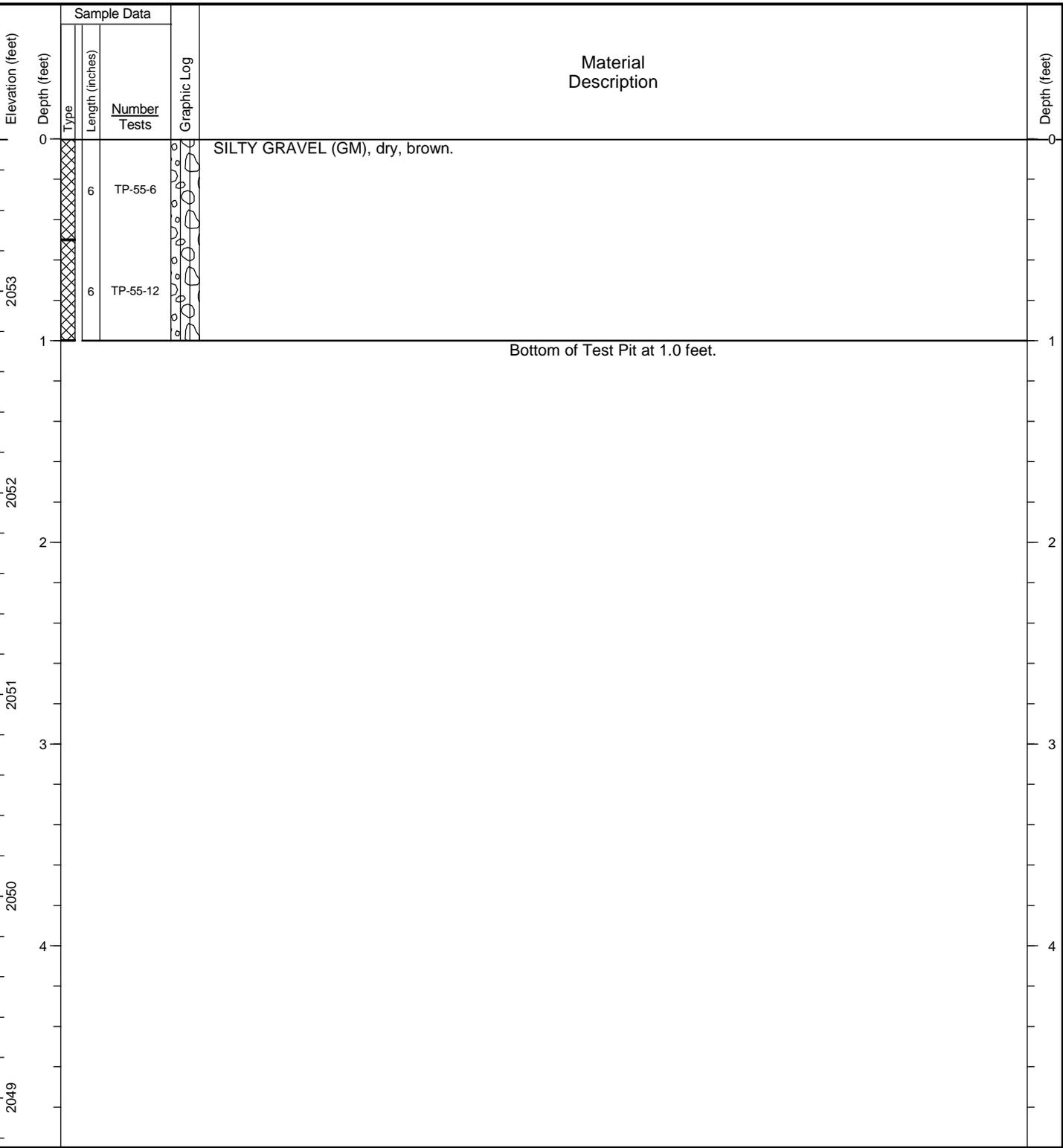
Date Started: 11/8/18 Date Completed: 11/8/18 Contractor/Crew: _____
 Logged by: K. Huddleston/W. McDonald Checked by: _____ Rig Model/Type: _____
 Location: Lat: 47.657494 Long: -117.137311 (WA State Plane N, NAD 83, ft.) Total Depth: 1 feet Depth to Seepage: Not Encountered
 Ground Surface Elevation: 2,051.60 feet (NAVD 88)
 Comments: _____



General Notes:
 1. Refer to Figure A-1 for explanation of descriptions and symbols.
 2. Material stratum lines are interpretive and actual changes may be gradual. Solid lines indicate distinct contacts and dashed lines indicate gradual or approximate contacts.
 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.
 5. Location and ground surface elevations are approximate.

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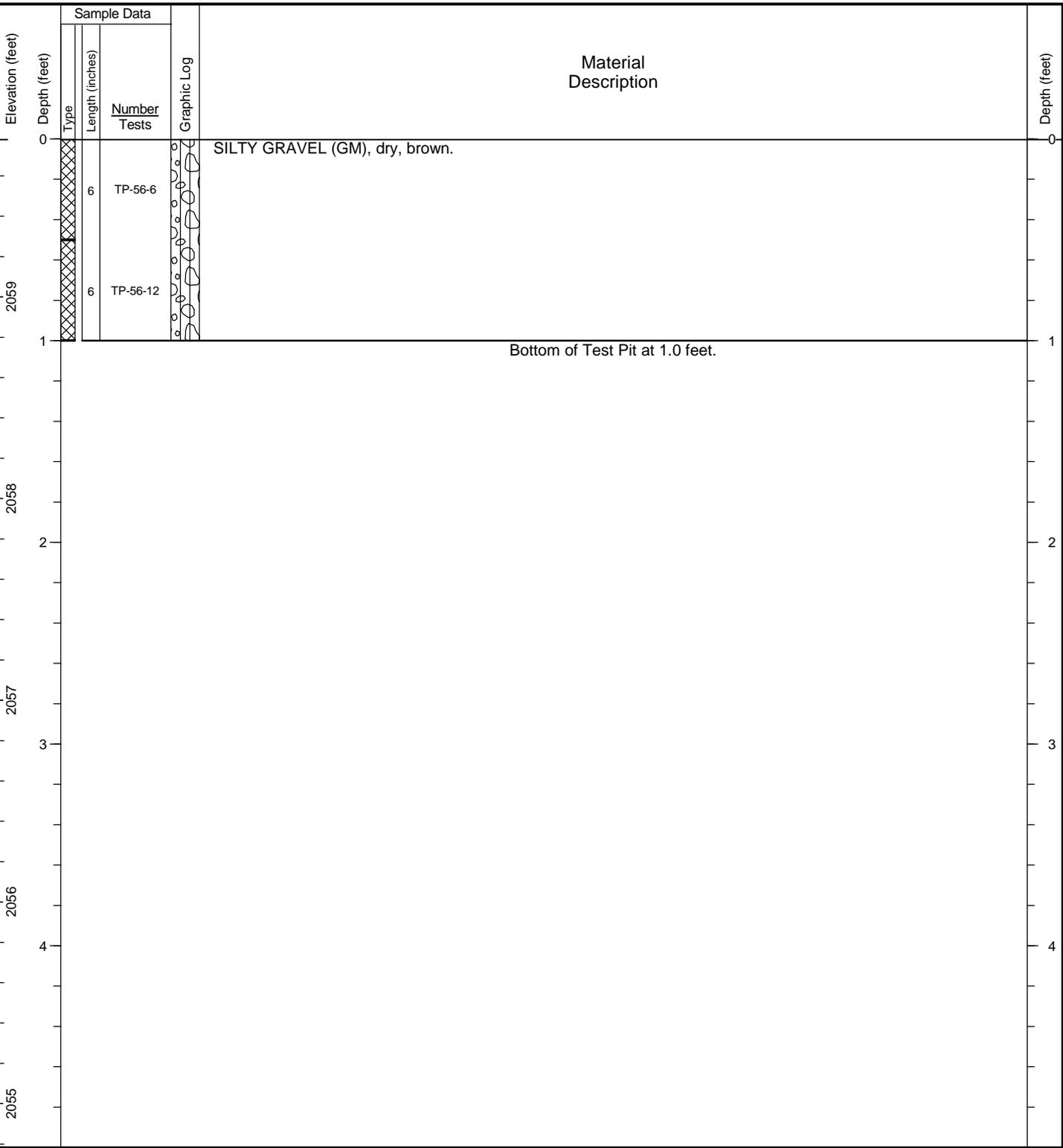
Date Started: 11/8/18 Date Completed: 11/8/18 Contractor/Crew: _____
 Logged by: K. Huddleston/W. McDonald Checked by: _____ Rig Model/Type: _____
 Location: Lat: 47.657483 Long: -117.136883 (WA State Plane N, NAD 83, ft.) Total Depth: 1 feet Depth to Seepage: Not Encountered
 Ground Surface Elevation: 2,053.75 feet (NAVD 88)
 Comments: _____



General Notes:
 1. Refer to Figure A-1 for explanation of descriptions and symbols.
 2. Material stratum lines are interpretive and actual changes may be gradual. Solid lines indicate distinct contacts and dashed lines indicate gradual or approximate contacts.
 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.
 5. Location and ground surface elevations are approximate.

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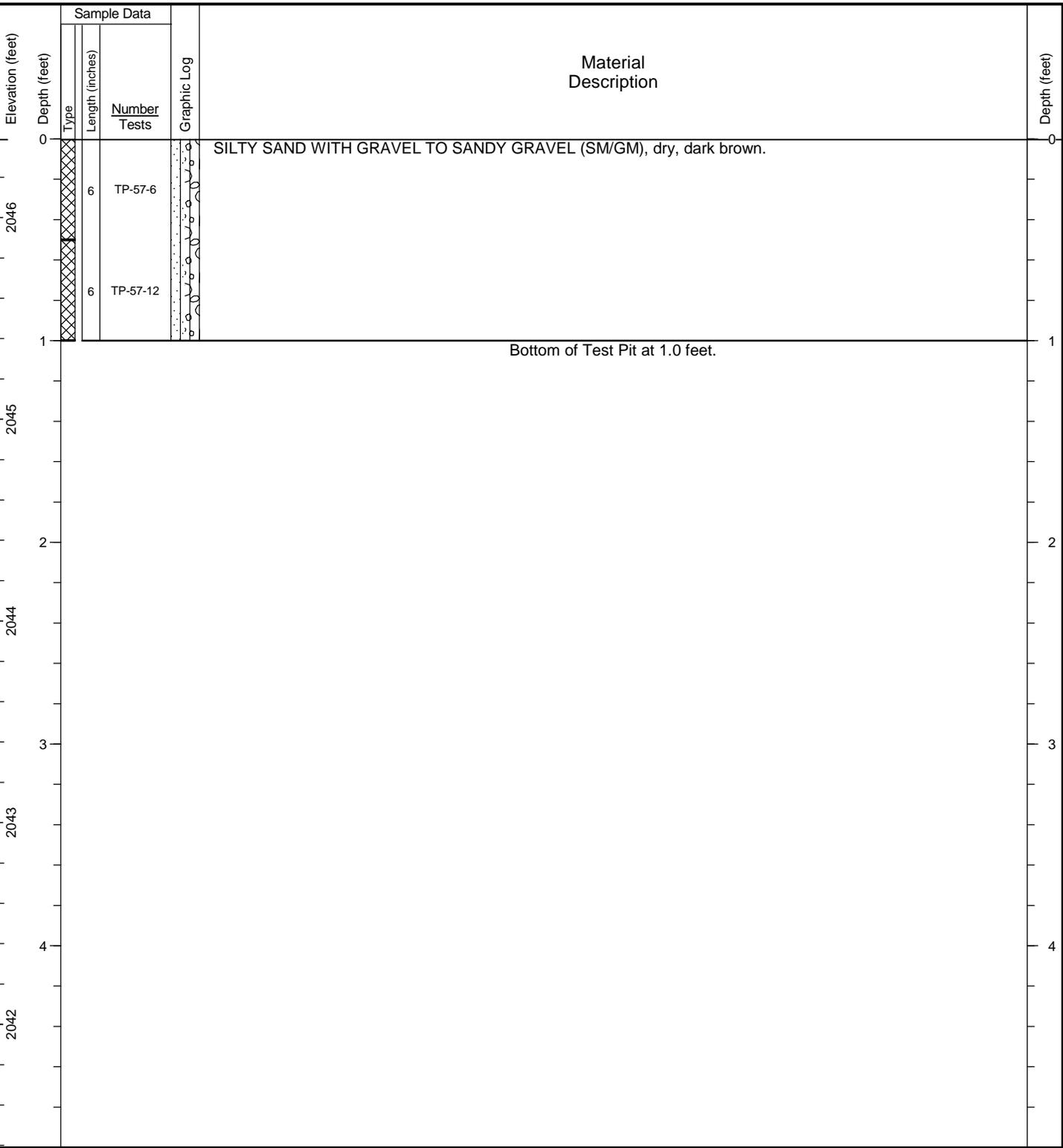
Date Started: 11/8/18 Date Completed: 11/8/18 Contractor/Crew: _____
 Logged by: K. Huddleston/W. McDonald Checked by: _____ Rig Model/Type: _____
 Location: Lat: 47.657487 Long: -117.136287 (WA State Plane N, NAD 83, ft.) Total Depth: 1 feet Depth to Seepage: Not Encountered
 Ground Surface Elevation: 2,059.78 feet (NAVD 88)
 Comments: _____



General Notes:
 1. Refer to Figure A-1 for explanation of descriptions and symbols.
 2. Material stratum lines are interpretive and actual changes may be gradual. Solid lines indicate distinct contacts and dashed lines indicate gradual or approximate contacts.
 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.
 5. Location and ground surface elevations are approximate.

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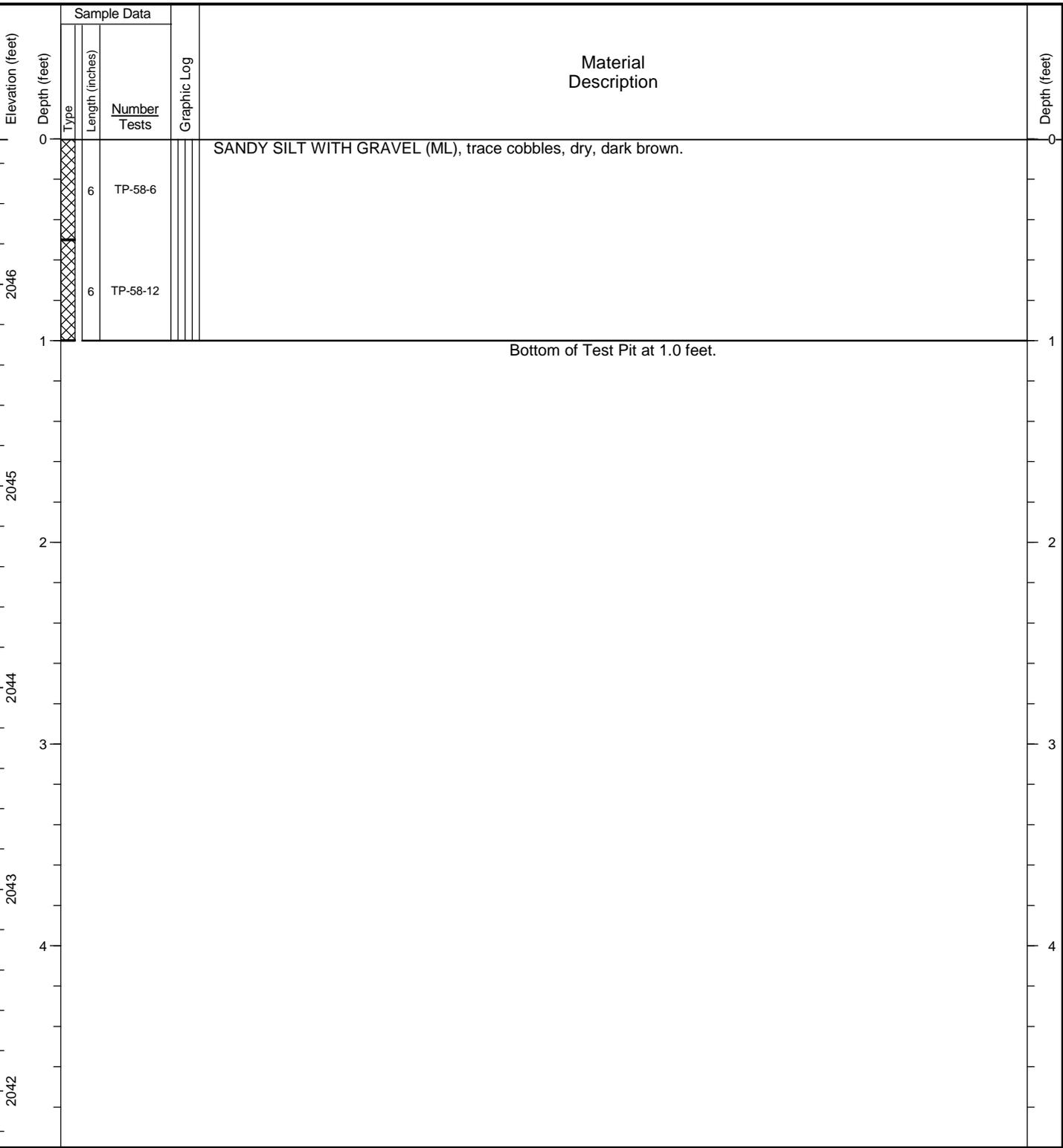
Date Started: 11/8/18 Date Completed: 11/8/18 Contractor/Crew: _____
 Logged by: K. Huddleston/W. McDonald Checked by: _____ Rig Model/Type: _____
 Location: Lat: 47.658864 Long: -117.135313 (WA State Plane N, NAD 83, ft.) Total Depth: 1 feet Depth to Seepage: Not Encountered
 Ground Surface Elevation: 2,046.39 feet (NAVD 88)
 Comments: _____



General Notes:
 1. Refer to Figure A-1 for explanation of descriptions and symbols.
 2. Material stratum lines are interpretive and actual changes may be gradual. Solid lines indicate distinct contacts and dashed lines indicate gradual or approximate contacts.
 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.
 5. Location and ground surface elevations are approximate.

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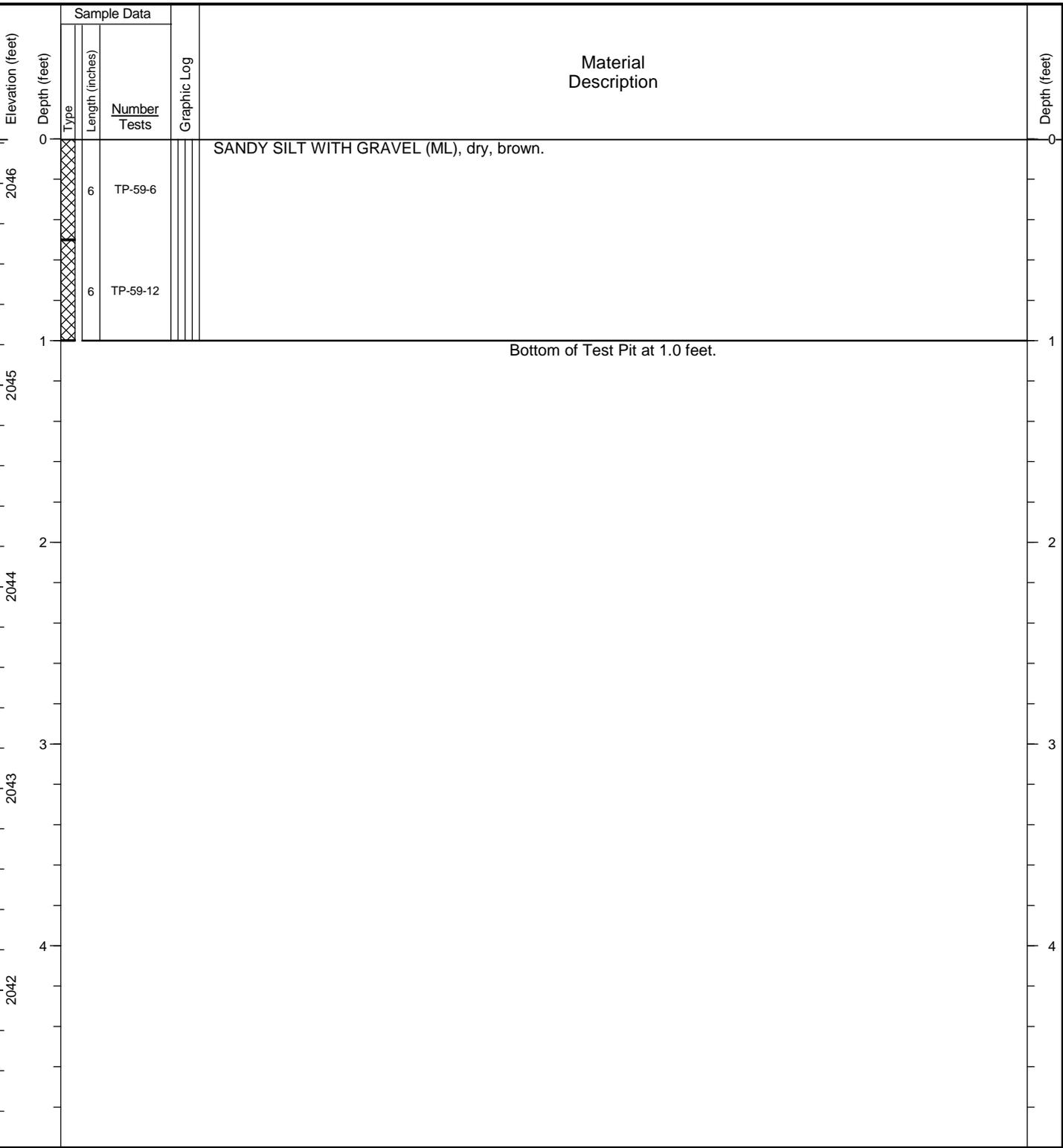
Date Started: 11/8/18 Date Completed: 11/8/18 Contractor/Crew: _____
 Logged by: K. Huddleston/W. McDonald Checked by: _____ Rig Model/Type: _____
 Location: Lat: 47.658949 Long: -117.134972 (WA State Plane N, NAD 83, ft.) Total Depth: 1 feet Depth to Seepage: Not Encountered
 Ground Surface Elevation: 2,046.72 feet (NAVD 88)
 Comments: _____



General Notes:
 1. Refer to Figure A-1 for explanation of descriptions and symbols.
 2. Material stratum lines are interpretive and actual changes may be gradual. Solid lines indicate distinct contacts and dashed lines indicate gradual or approximate contacts.
 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.
 5. Location and ground surface elevations are approximate.

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Date Started: <u>11/8/18</u>	Date Completed: <u>11/8/18</u>	Contractor/Crew: _____
Logged by: <u>K. Huddleston/W. McDonald</u>	Checked by: _____	Rig Model/Type: _____
Location: <u>Lat: 47.658948 Long: -117.134448 (WA State Plane N, NAD 83, ft.)</u>	Total Depth: <u>1 feet</u>	Depth to Seepage: <u>Not Encountered</u>
Ground Surface Elevation: <u>2,046.22 feet (NAVD 88)</u>	Comments: _____	

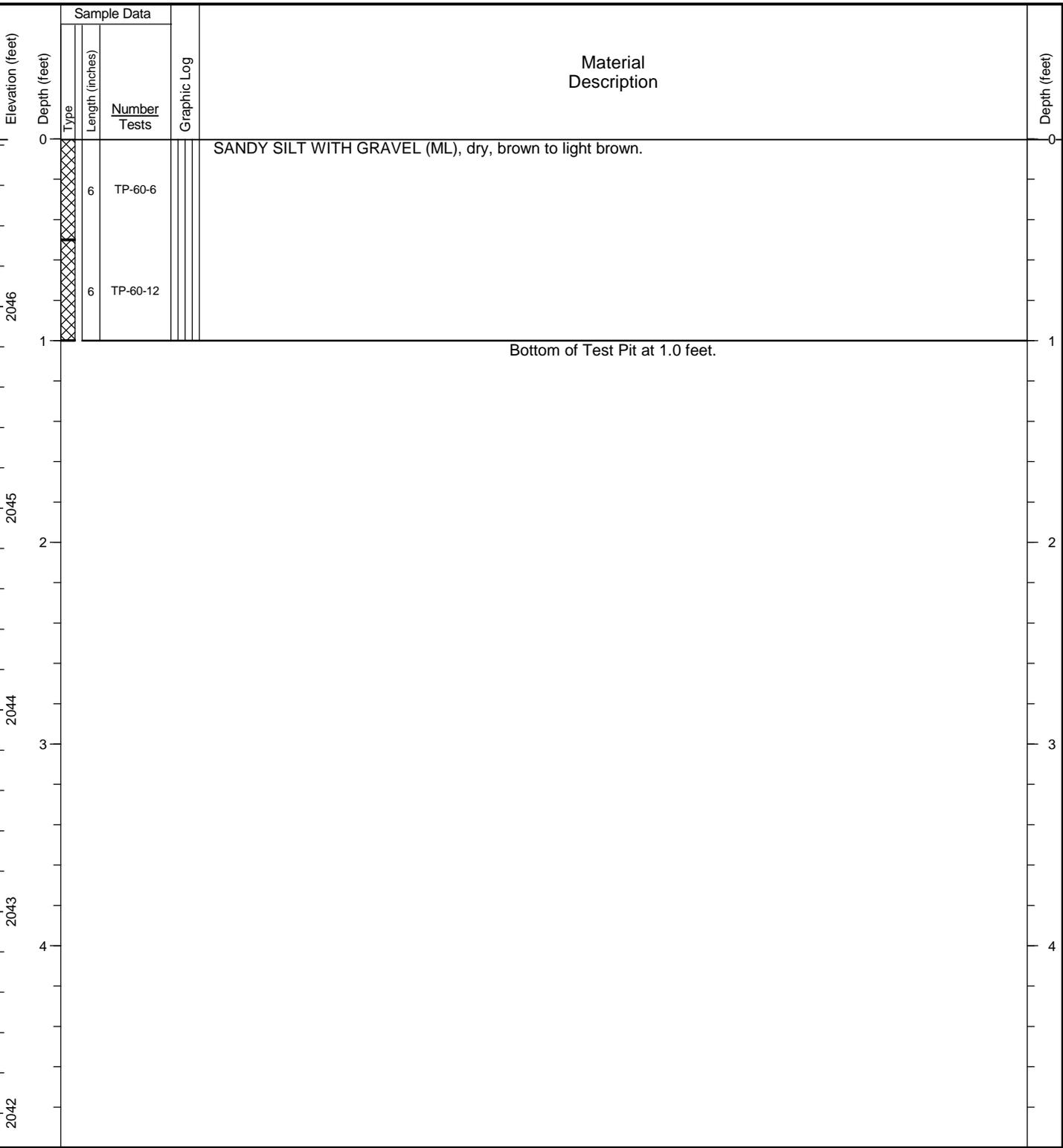


General Notes:

1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Material stratum lines are interpretive and actual changes may be gradual. Solid lines indicate distinct contacts and dashed lines indicate gradual or approximate contacts.
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.
5. Location and ground surface elevations are approximate.

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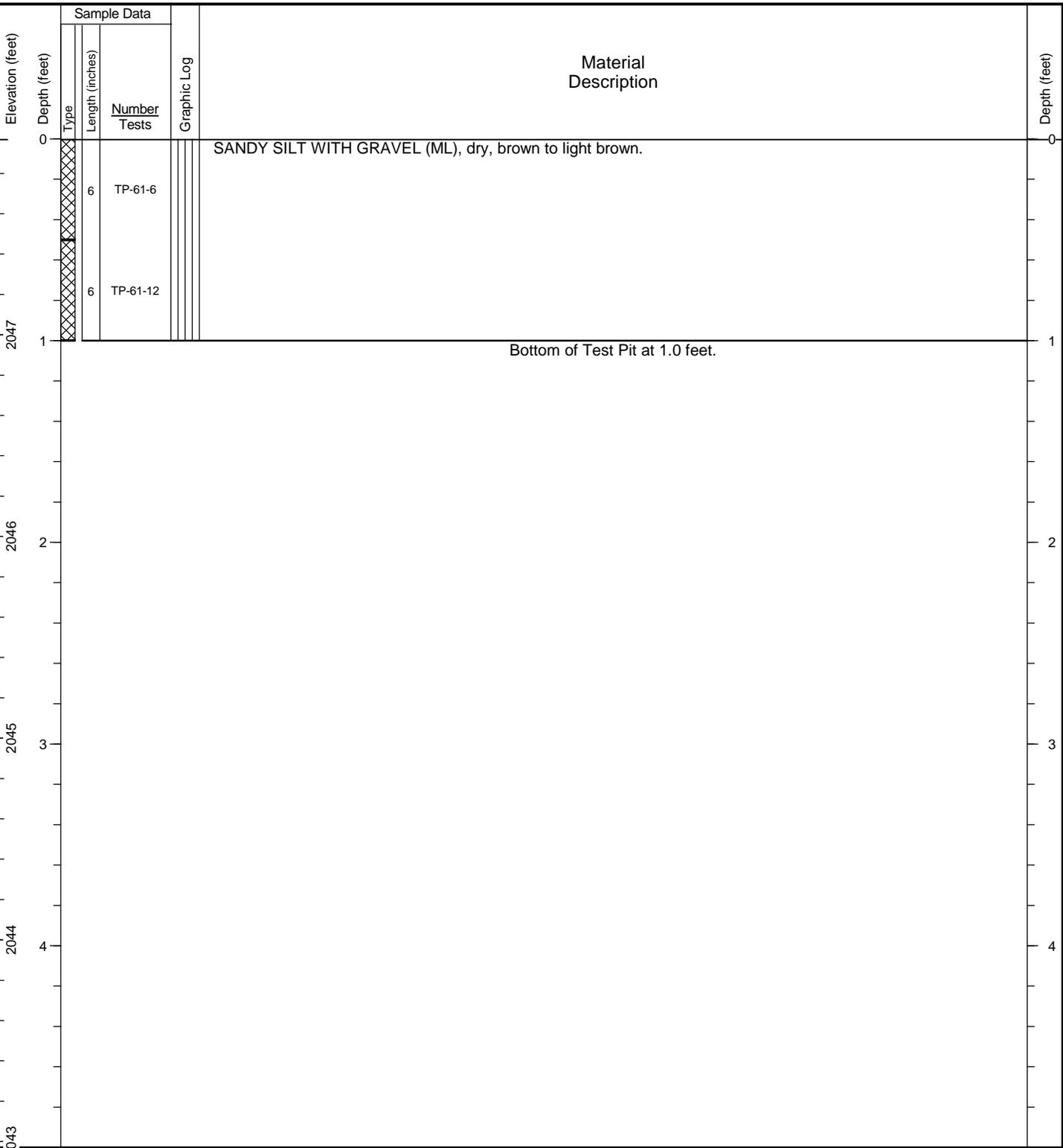
Date Started: 11/8/18 Date Completed: 11/8/18 Contractor/Crew: _____
 Logged by: K. Huddleston/W. McDonald Checked by: _____ Rig Model/Type: _____
 Location: Lat: 47.658663 Long: -117.134964 (WA State Plane N, NAD 83, ft.) Total Depth: 1 feet Depth to Seepage: Not Encountered
 Ground Surface Elevation: 2,046.83 feet (NAVD 88)
 Comments: _____



General Notes:
 1. Refer to Figure A-1 for explanation of descriptions and symbols.
 2. Material stratum lines are interpretive and actual changes may be gradual. Solid lines indicate distinct contacts and dashed lines indicate gradual or approximate contacts.
 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.
 5. Location and ground surface elevations are approximate.

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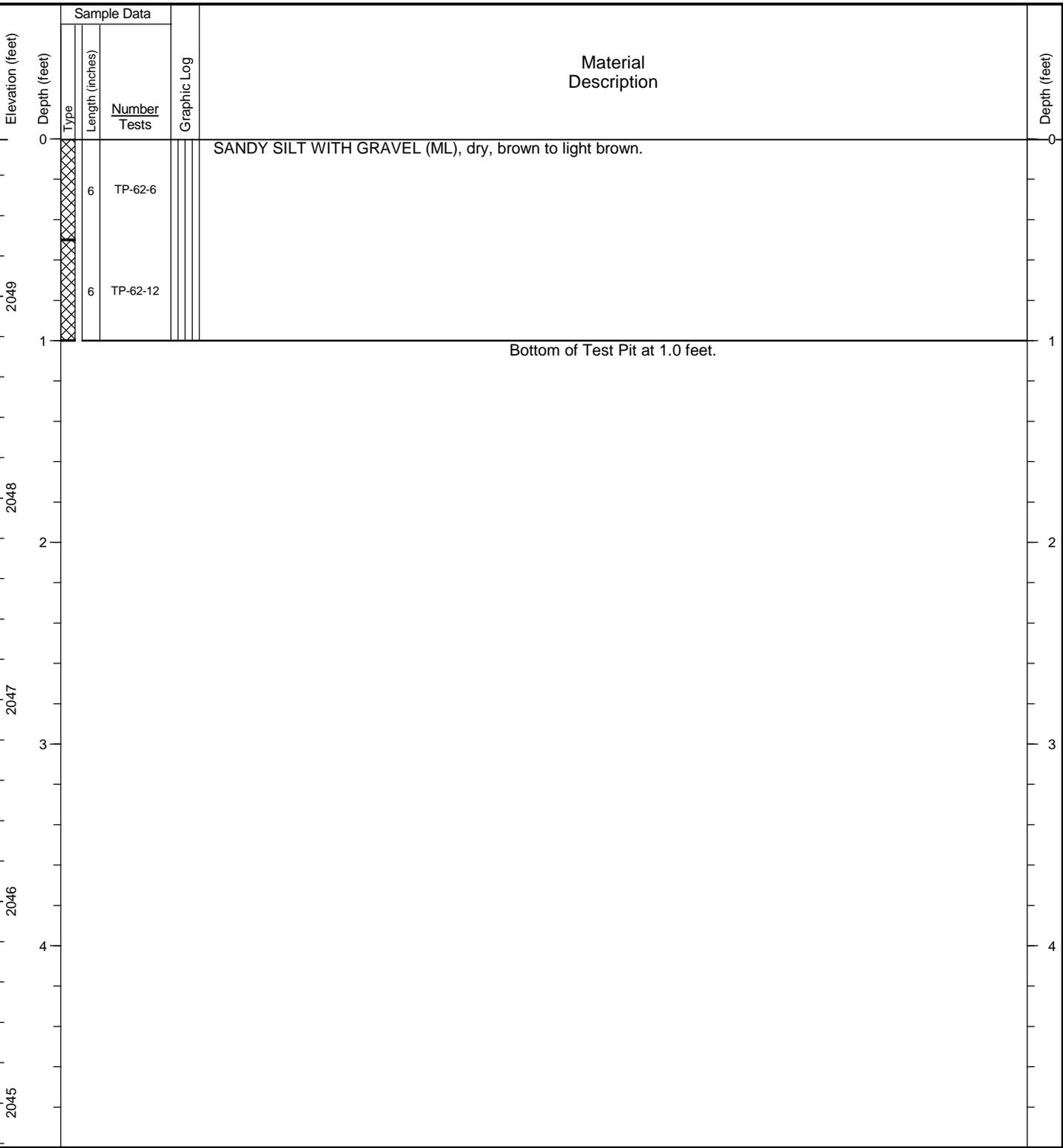
Date Started: 11/8/18 Date Completed: 11/8/18 Contractor/Crew: _____
 Logged by: K. Huddleston/W. McDonald Checked by: _____ Rig Model/Type: _____
 Location: Lat: 47.658647 Long: -117.134451 (WA State Plane N, NAD 83, ft.) Total Depth: 1 feet Depth to Seepage: Not Encountered
 Ground Surface Elevation: 2,047.97 feet (NAVD 88)
 Comments: _____



- General Notes:
1. Refer to Figure A-1 for explanation of descriptions and symbols.
 2. Material stratum lines are interpretive and actual changes may be gradual. Solid lines indicate distinct contacts and dashed lines indicate gradual or approximate contacts.
 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.
 5. Location and ground surface elevations are approximate.

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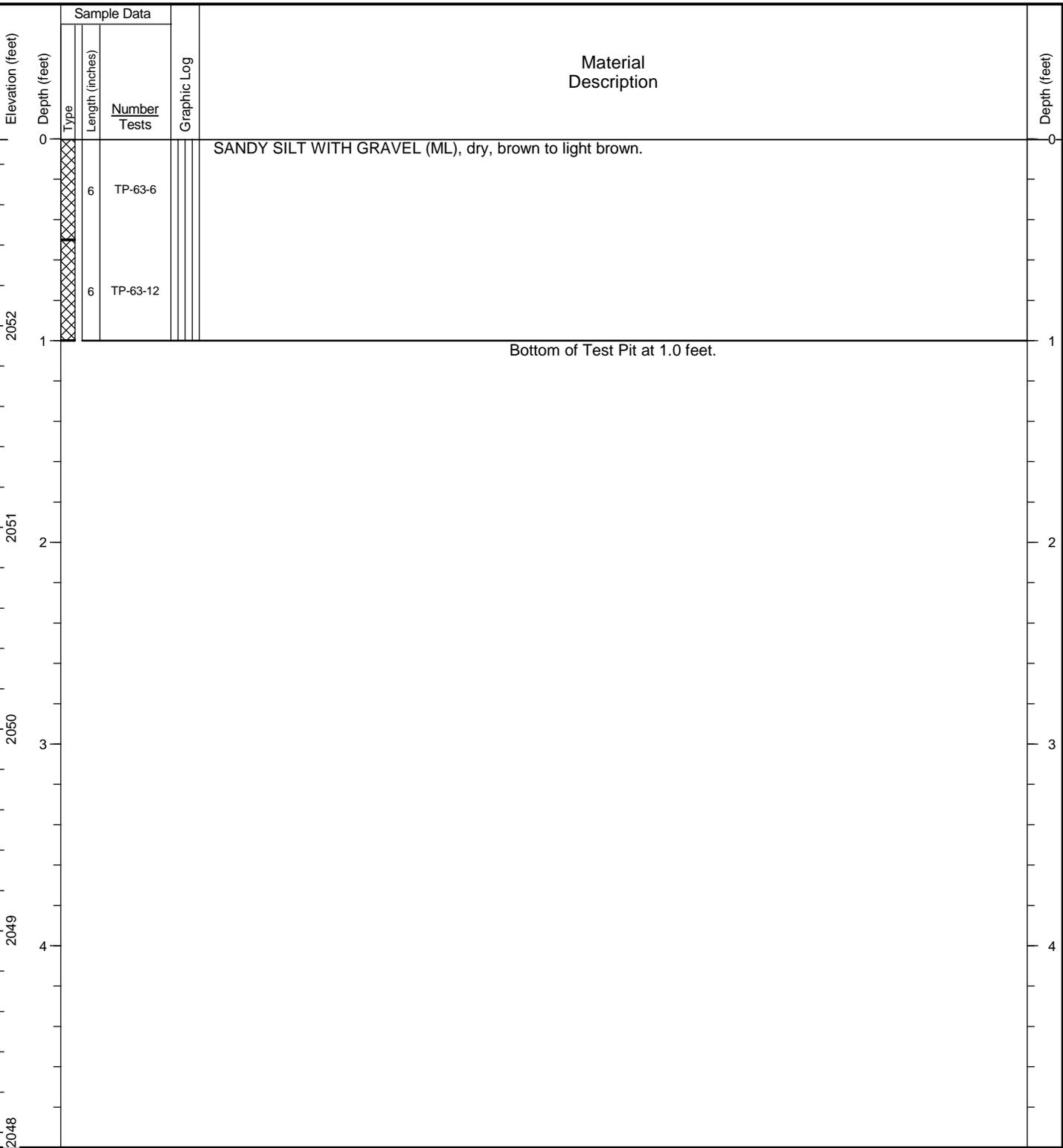
Date Started: 11/8/18 Date Completed: 11/8/18 Contractor/Crew: _____
 Logged by: K. Huddleston/W. McDonald Checked by: _____ Rig Model/Type: _____
 Location: Lat: 47.658347 Long: -117.134944 (WA State Plane N, NAD 83, ft.) Total Depth: 1 feet Depth to Seepage: Not Encountered
 Ground Surface Elevation: 2,049.78 feet (NAVD 88)
 Comments: _____



General Notes:
 1. Refer to Figure A-1 for explanation of descriptions and symbols.
 2. Material stratum lines are interpretive and actual changes may be gradual. Solid lines indicate distinct contacts and dashed lines indicate gradual or approximate contacts.
 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.
 5. Location and ground surface elevations are approximate.

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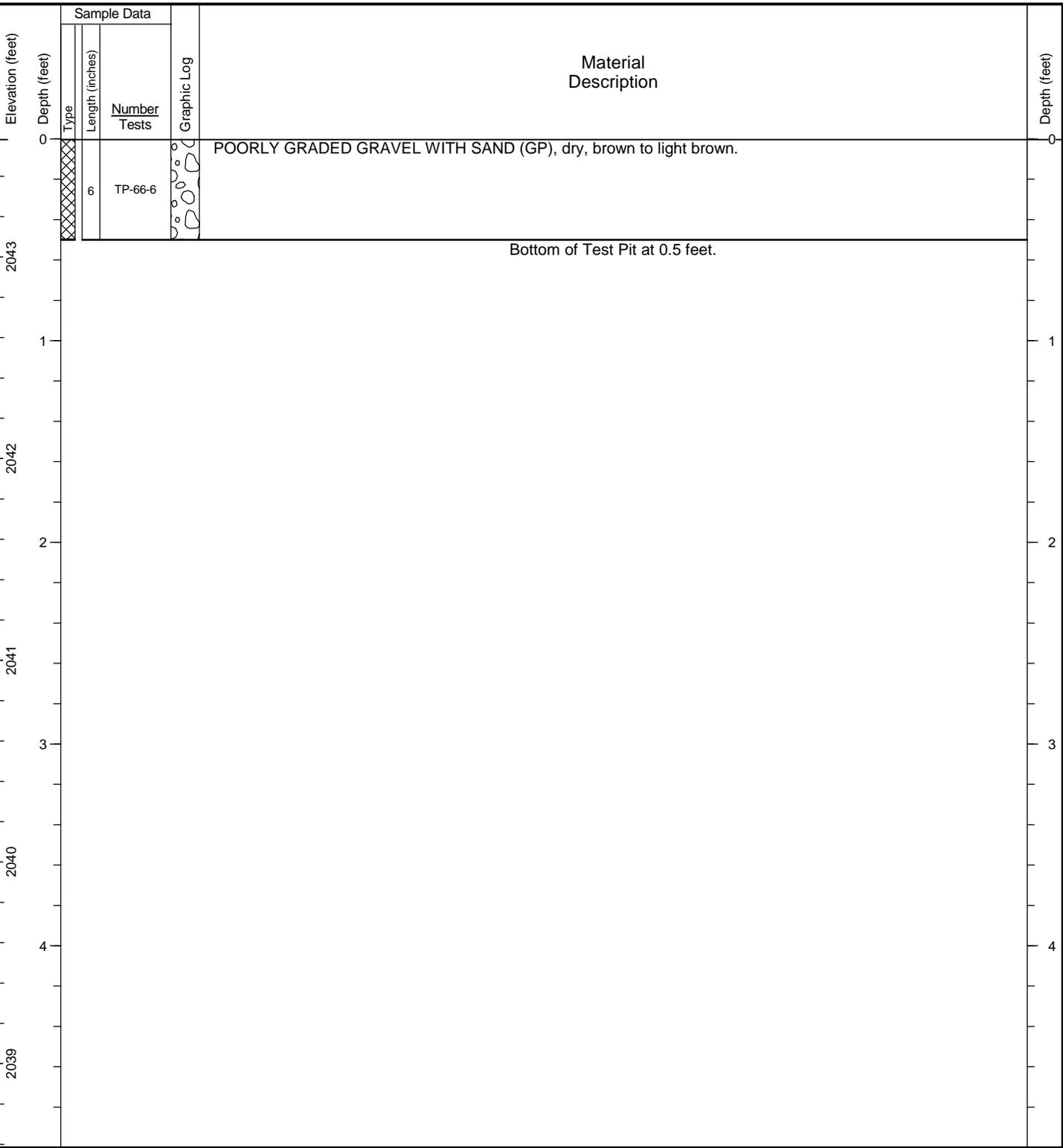
Date Started: 11/8/18 Date Completed: 11/8/18 Contractor/Crew: _____
 Logged by: K. Huddleston/W. McDonald Checked by: _____ Rig Model/Type: _____
 Location: Lat: 47.658333 Long: -117.134416 (WA State Plane N, NAD 83, ft.) Total Depth: 1 feet Depth to Seepage: Not Encountered
 Ground Surface Elevation: 2,052.93 feet (NAVD 88)
 Comments: _____



General Notes:
 1. Refer to Figure A-1 for explanation of descriptions and symbols.
 2. Material stratum lines are interpretive and actual changes may be gradual. Solid lines indicate distinct contacts and dashed lines indicate gradual or approximate contacts.
 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.
 5. Location and ground surface elevations are approximate.

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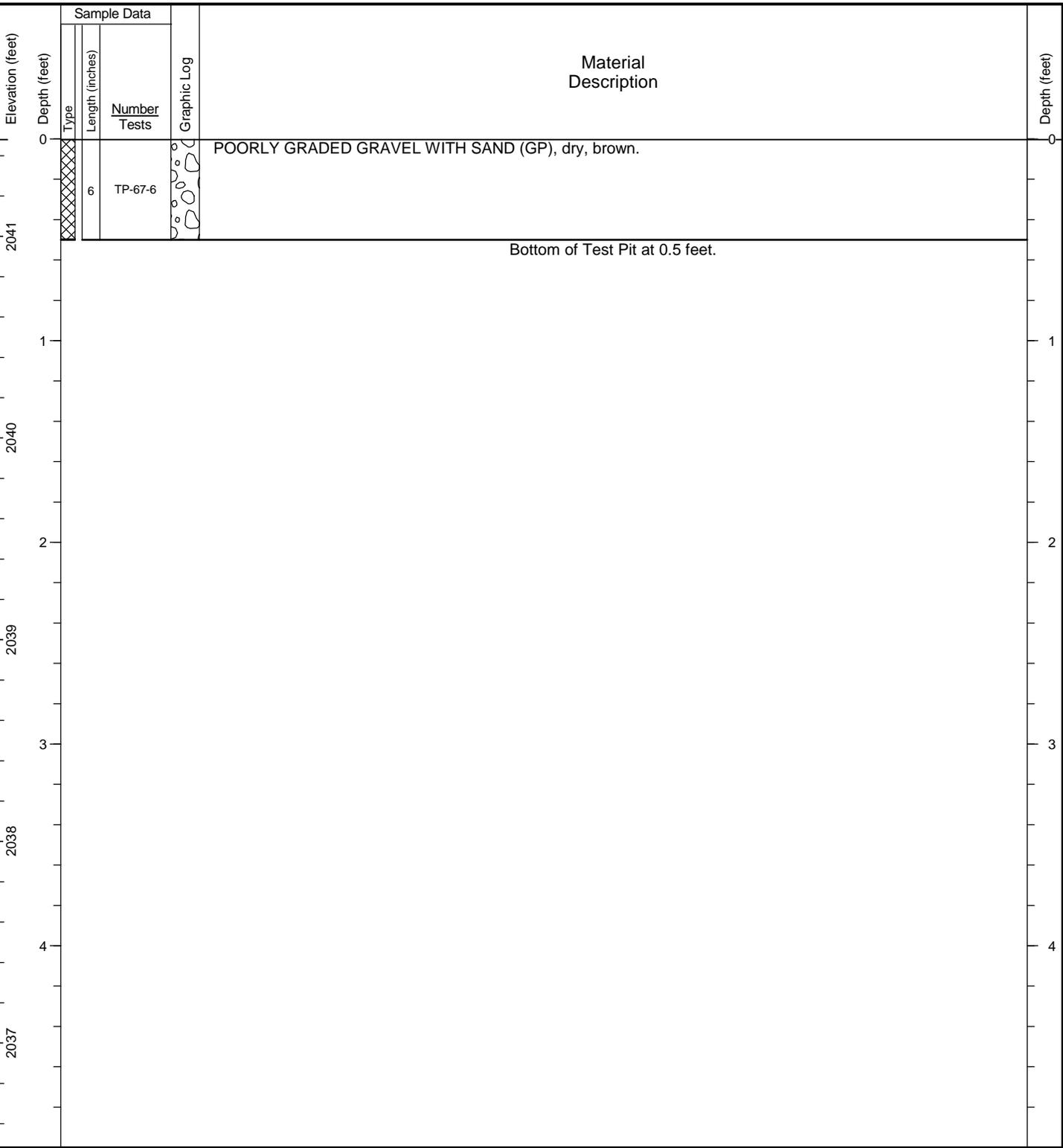
Date Started: 2/12/19 Date Completed: 2/12/19 Contractor/Crew: _____
 Logged by: K. Huddleston/W. McDonald Checked by: _____ Rig Model/Type: _____
 Location: Lat: 47.662183 Long: -117.140263 (WA State Plane N, NAD 83, ft.) Total Depth: 0.5 feet Depth to Seepage: Not Encountered
 Ground Surface Elevation: 2,043.58 feet (NAVD 88)
 Comments: _____



General Notes:
 1. Refer to Figure A-1 for explanation of descriptions and symbols.
 2. Material stratum lines are interpretive and actual changes may be gradual. Solid lines indicate distinct contacts and dashed lines indicate gradual or approximate contacts.
 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.
 5. Location and ground surface elevations are approximate.

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Date Started: <u>2/12/19</u>	Date Completed: <u>2/12/19</u>	Contractor/Crew: _____
Logged by: <u>K. Huddleston/W. McDonald</u>	Checked by: _____	Rig Model/Type: _____
Location: <u>Lat: 47.662137 Long: -117.138301 (WA State Plane N, NAD 83, ft.)</u>	Total Depth: <u>0.5 feet</u>	Depth to Seepage: <u>Not Encountered</u>
Ground Surface Elevation: <u>2,041.48 feet (NAVD 88)</u>	Comments: _____	

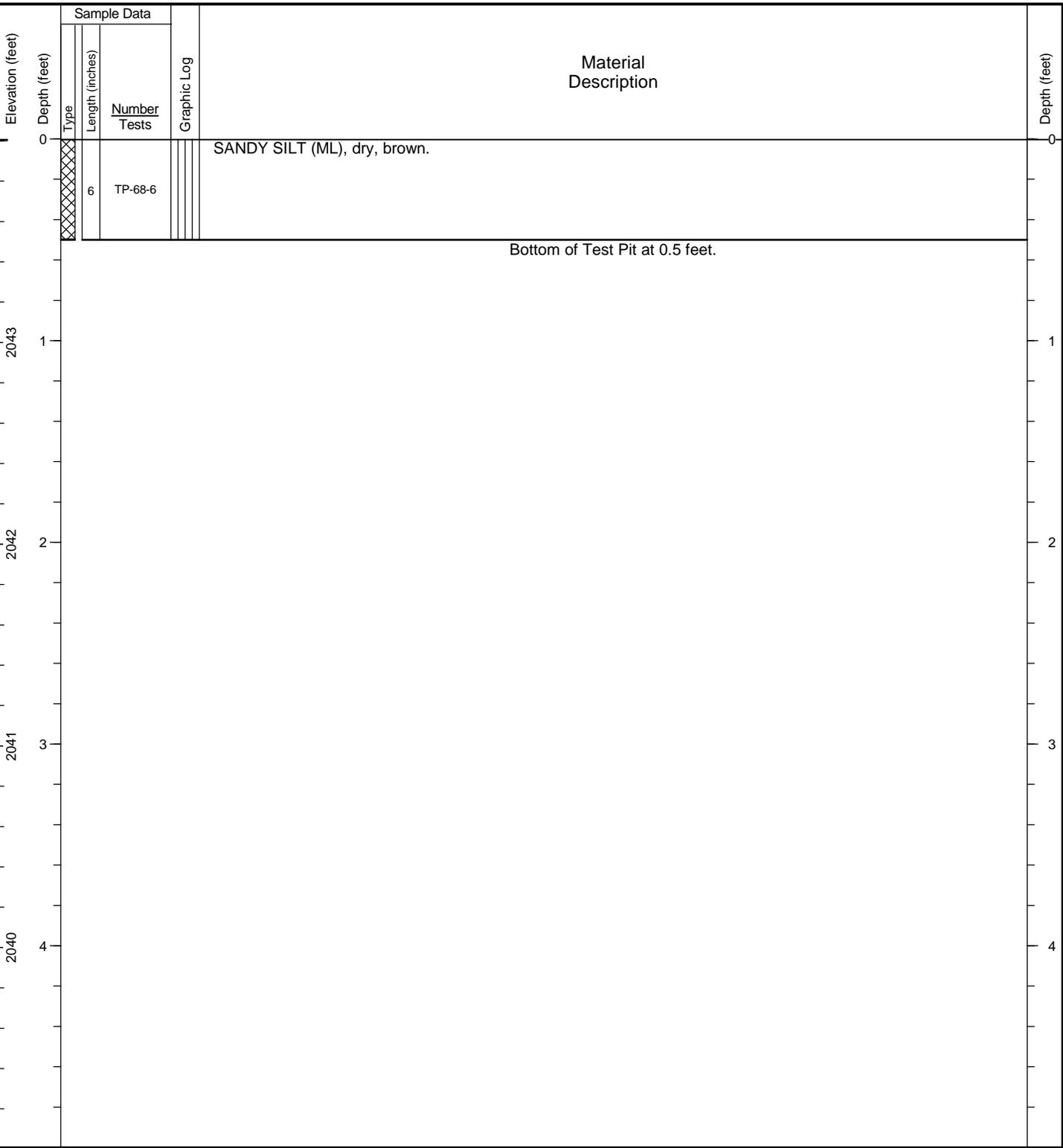


General Notes:

1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Material stratum lines are interpretive and actual changes may be gradual. Solid lines indicate distinct contacts and dashed lines indicate gradual or approximate contacts.
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.
5. Location and ground surface elevations are approximate.

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Date Started: 2/12/19 Date Completed: 2/12/19 Contractor/Crew: _____
 Logged by: K. Huddleston/W. McDonald Checked by: _____ Rig Model/Type: _____
 Location: Lat: 47.661076 Long: -117.138182 (WA State Plane N, NAD 83, ft.) Total Depth: 0.5 feet Depth to Seepage: Not Encountered
 Ground Surface Elevation: 2,044.01 feet (NAVD 88)
 Comments: _____



General Notes:
 1. Refer to Figure A-1 for explanation of descriptions and symbols.
 2. Material stratum lines are interpretive and actual changes may be gradual. Solid lines indicate distinct contacts and dashed lines indicate gradual or approximate contacts.
 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.
 5. Location and ground surface elevations are approximate.

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Date Started: 2/12/19 Date Completed: 2/12/19 Contractor/Crew: _____
 Logged by: K. Huddleston/W. McDonald Checked by: _____ Rig Model/Type: _____
 Location: Lat: 47.657205 Long: -117.137243 (WA State Plane N, NAD 83, ft.) Total Depth: 1 feet Depth to Seepage: Not Encountered
 Ground Surface Elevation: 2,056.03 feet (NAVD 88)
 Comments: _____

Elevation (feet)	Depth (feet)	Sample Data			Graphic Log	Material Description	Depth (feet)
		Type	Length (inches)	Number Tests			
2056	0						0
		X		6 TP-69-6		SILT (ML), moist, black, few clay pigeon and shot gun shell fragments.	
		X		6 TP-69-12			
2055	1					Bottom of Test Pit at 1.0 feet.	1
2054	2						2
2053	3						3
2052	4						4

General Notes:
 1. Refer to Figure A-1 for explanation of descriptions and symbols.
 2. Material stratum lines are interpretive and actual changes may be gradual. Solid lines indicate distinct contacts and dashed lines indicate gradual or approximate contacts.
 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.
 5. Location and ground surface elevations are approximate.

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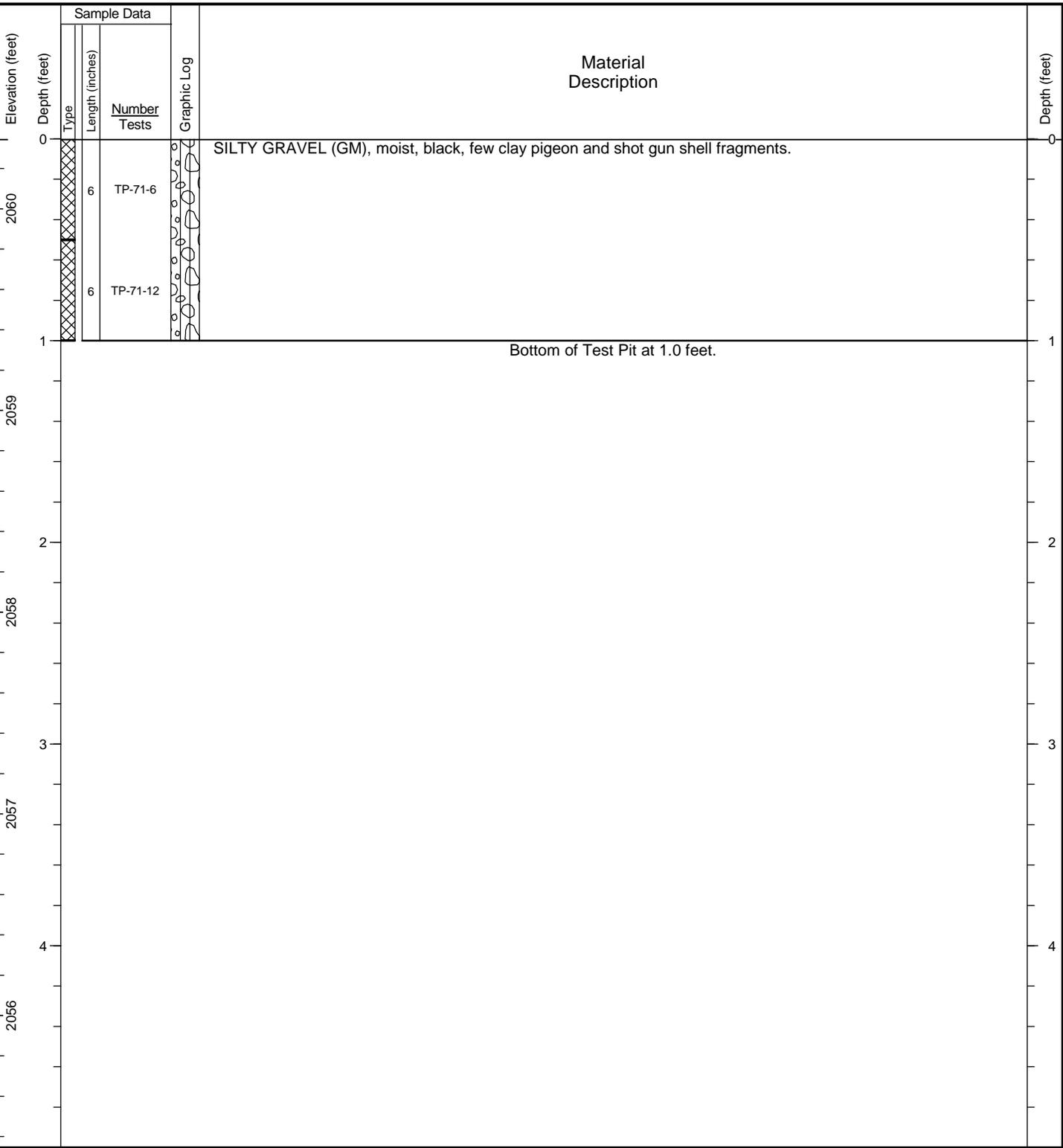
Date Started: 2/12/19 Date Completed: 2/12/19 Contractor/Crew: _____
 Logged by: K. Huddleston/W. McDonald Checked by: _____ Rig Model/Type: _____
 Location: Lat: 47.657200 Long: -117.137007 (WA State Plane N, NAD 83, ft.) Total Depth: 1 feet Depth to Seepage: Not Encountered
 Ground Surface Elevation: 2,057.51 feet (NAVD 88)
 Comments: _____

Elevation (feet)	Depth (feet)	Sample Data			Graphic Log	Material Description	Depth (feet)
		Type	Length (inches)	Number Tests			
2057	0					SILT (ML), moist, black, few clay pigeon and shot gun shell fragments.	0
	6			TP-70-6			
	6			TP-70-12			
	1	Bottom of Test Pit at 1.0 feet.					1
2056							
	2						
2055							
	3						
2054							
	4						
2053							

General Notes:
 1. Refer to Figure A-1 for explanation of descriptions and symbols.
 2. Material stratum lines are interpretive and actual changes may be gradual. Solid lines indicate distinct contacts and dashed lines indicate gradual or approximate contacts.
 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.
 5. Location and ground surface elevations are approximate.

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Date Started: 2/12/19 Date Completed: 2/12/19 Contractor/Crew: _____
 Logged by: K. Huddleston/W. McDonald Checked by: _____ Rig Model/Type: _____
 Location: Lat: 47.657174 Long: -117.136655 (WA State Plane N, NAD 83, ft.) Total Depth: 1 feet Depth to Seepage: Not Encountered
 Ground Surface Elevation: 2,060.35 feet (NAVD 88)
 Comments: _____



General Notes:
 1. Refer to Figure A-1 for explanation of descriptions and symbols.
 2. Material stratum lines are interpretive and actual changes may be gradual. Solid lines indicate distinct contacts and dashed lines indicate gradual or approximate contacts.
 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.
 5. Location and ground surface elevations are approximate.

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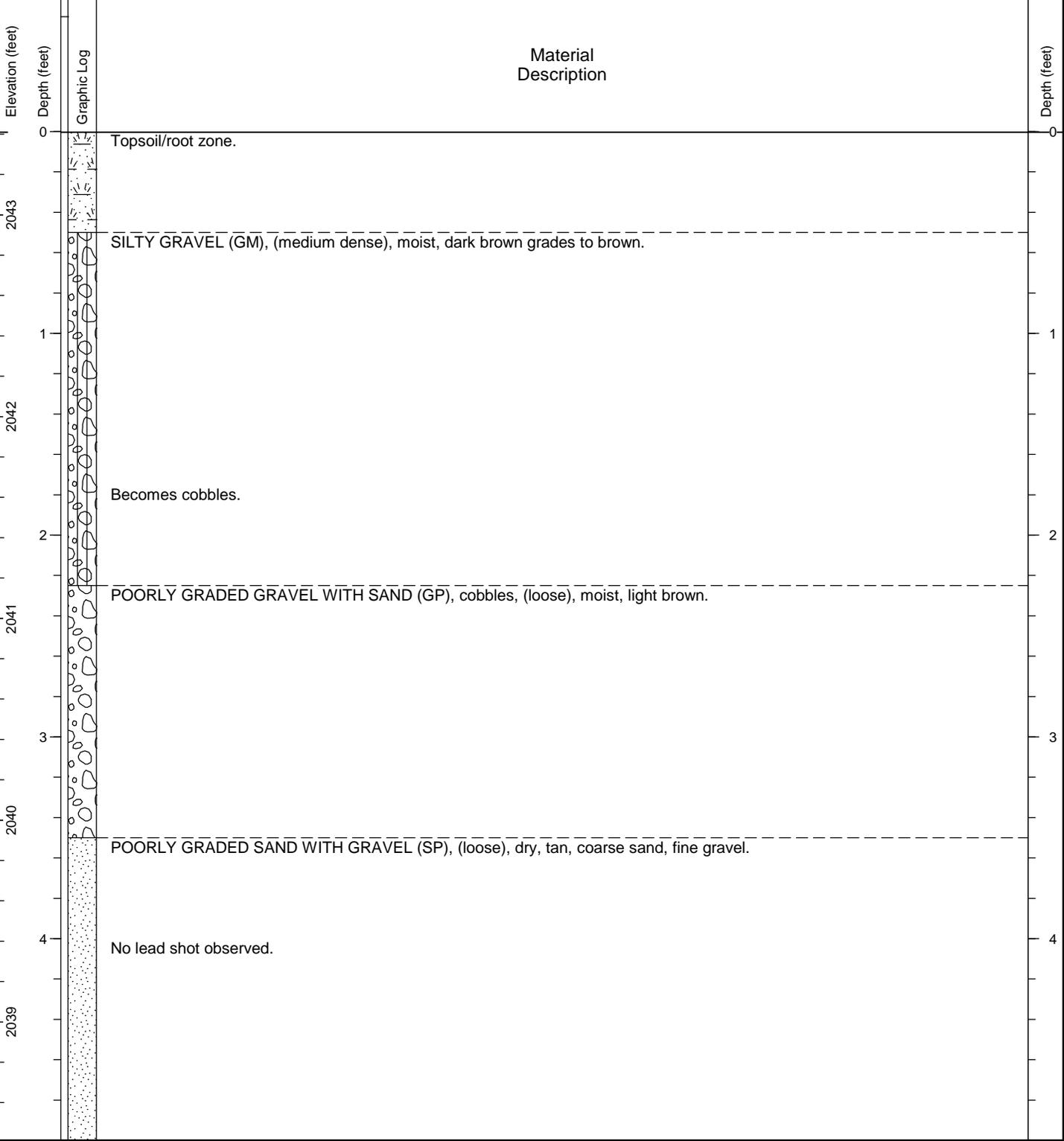
Date Started: 2/12/19 Date Completed: 2/12/19 Contractor/Crew: _____
 Logged by: K. Huddleston/W. McDonald Checked by: _____ Rig Model/Type: _____
 Location: Lat: 47.657169 Long: -117.136246 (WA State Plane N, NAD 83, ft.) Total Depth: 1 feet Depth to Seepage: Not Encountered
 Ground Surface Elevation: 2,062.27 feet (NAVD 88)
 Comments: _____

Elevation (feet)	Depth (feet)	Sample Data		Graphic Log	Material Description	Depth (feet)
		Type	Number Tests			
2062	0				SILT WITH GRAVEL (ML), moist, black, few clay pigeon and shot gun shell fragments.	0
		6	TP-72-6			
		6	TP-72-12			
	1	Bottom of Test Pit at 1.0 feet.				1
2061						
	2					2
2060						
	3					3
2059						
	4					4
2058						

General Notes:
 1. Refer to Figure A-1 for explanation of descriptions and symbols.
 2. Material stratum lines are interpretive and actual changes may be gradual. Solid lines indicate distinct contacts and dashed lines indicate gradual or approximate contacts.
 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.
 5. Location and ground surface elevations are approximate.

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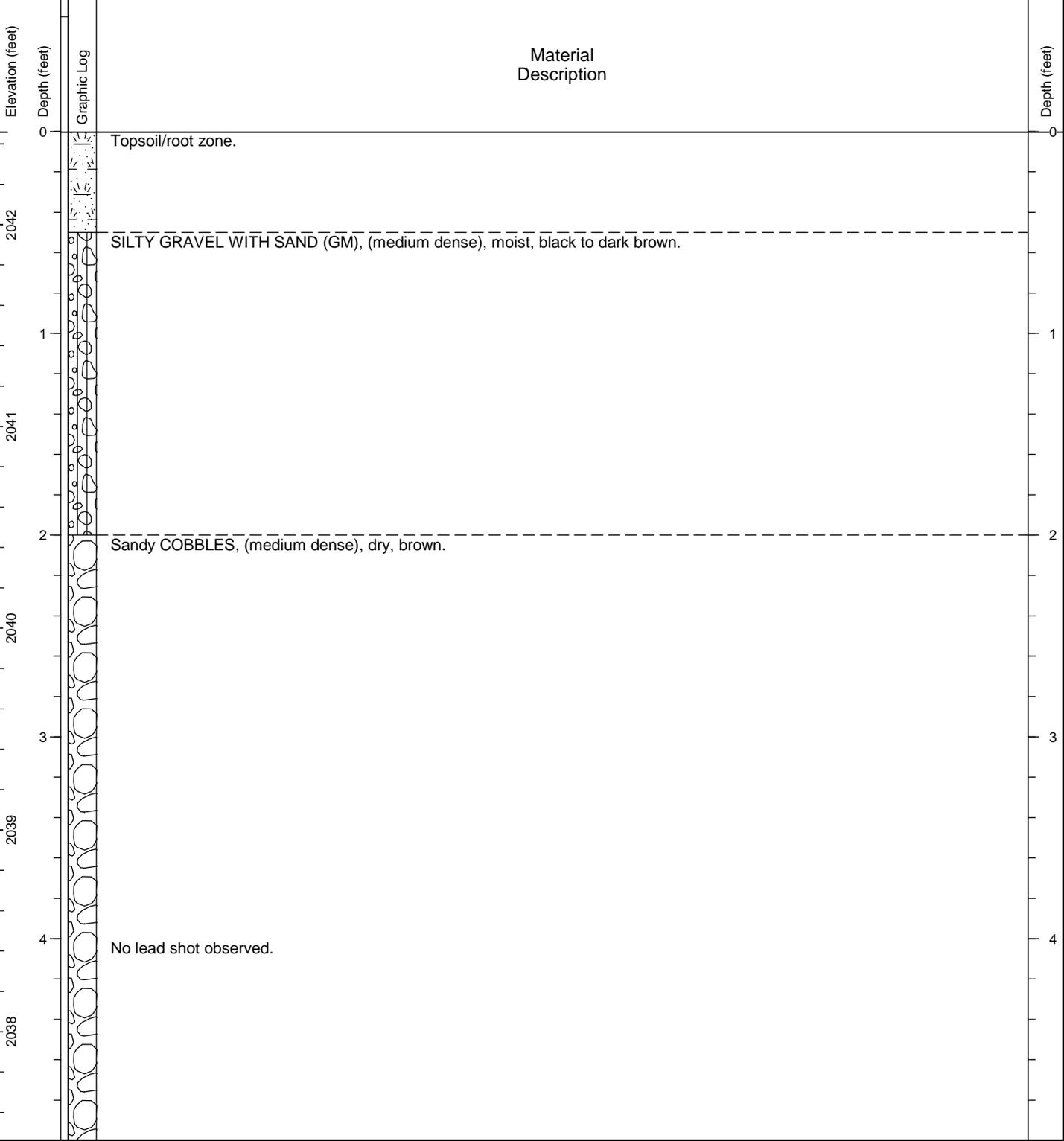
Date Started: 12/21/20 Date Completed: 12/21/20 Contractor/Crew: _____
 Logged by: K. Huddleston Checked by: _____ Rig Model/Type: _____
 Location: Lat: 47.661577 Long: -117.142667 (WA State Plane N, NAD 83, ft.) Total Depth: 5 feet Depth to Seepage: Not Encountered
 Ground Surface Elevation: 2,043.41 feet (NAVD 88)
 Comments: _____



General Notes: Bottom of Test Pit at 5.0 feet.
 1. Refer to Figure A-1 for explanation of descriptions and symbols.
 2. Material stratum lines are interpretive and actual changes may be gradual. Solid lines indicate distinct contacts and dashed lines indicate gradual or approximate contacts.
 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.
 5. Location and ground surface elevations are approximate.

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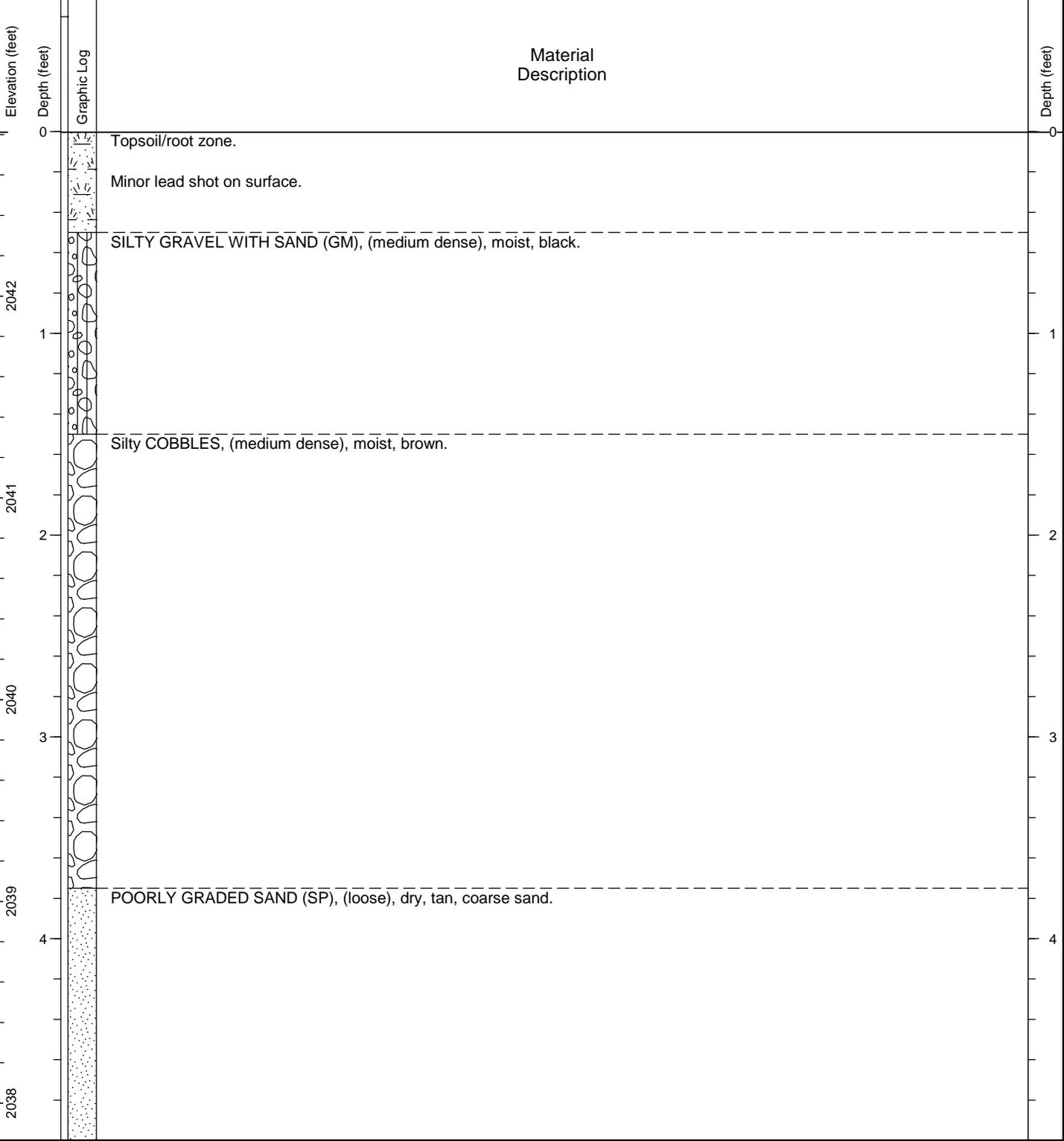
Date Started: 12/21/20 Date Completed: 12/21/20 Contractor/Crew: _____
 Logged by: K. Huddleston Checked by: _____ Rig Model/Type: _____
 Location: Lat: 47.661816 Long: -117.141833 (WA State Plane N, NAD 83, ft.) Total Depth: 5 feet Depth to Seepage: Not Encountered
 Ground Surface Elevation: 2,042.46 feet (NAVD 88)
 Comments: _____



General Notes: Bottom of Test Pit at 5.0 feet.
 1. Refer to Figure A-1 for explanation of descriptions and symbols.
 2. Material stratum lines are interpretive and actual changes may be gradual. Solid lines indicate distinct contacts and dashed lines indicate gradual or approximate contacts.
 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.
 5. Location and ground surface elevations are approximate.

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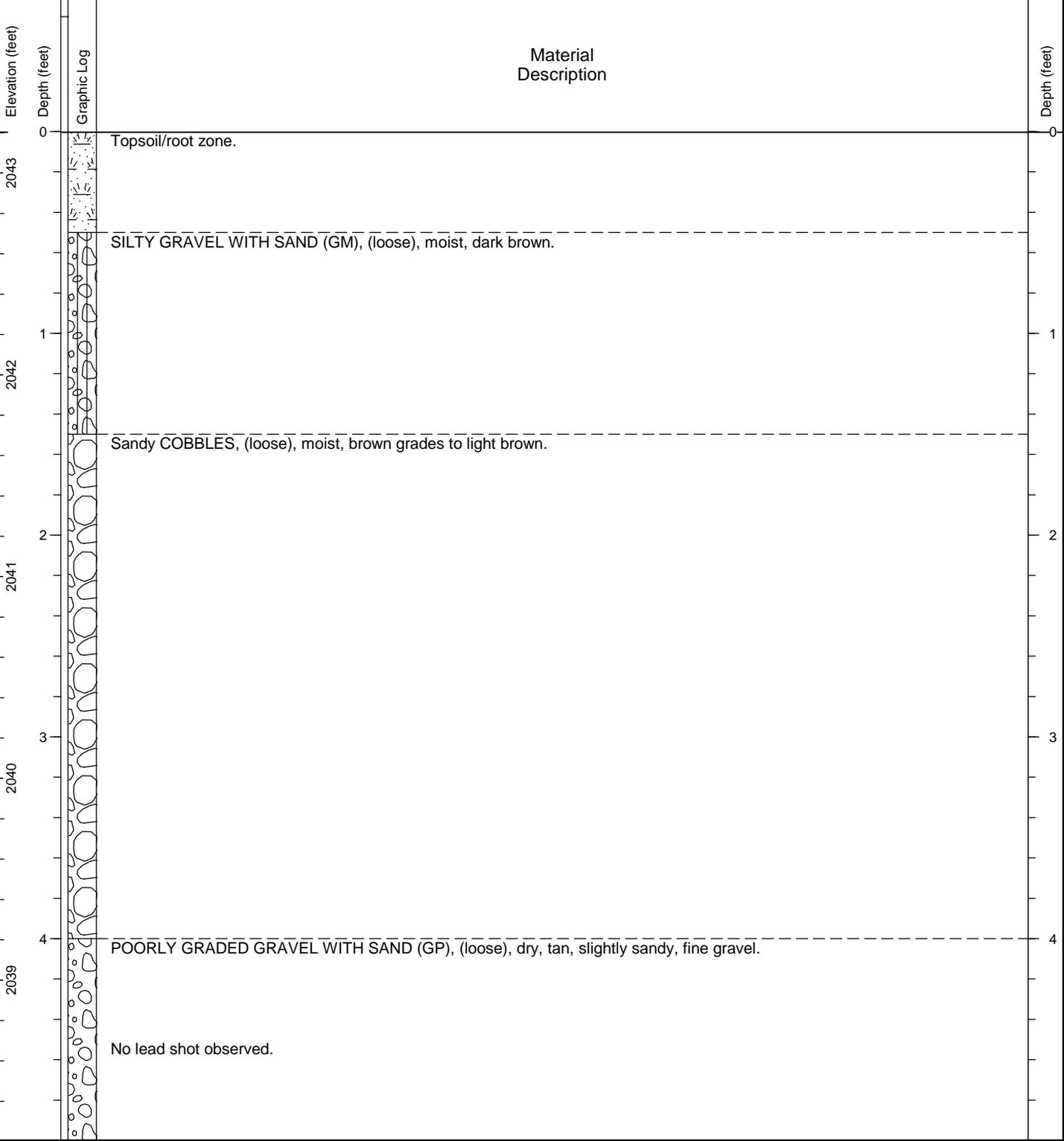
Date Started: 12/21/20 Date Completed: 12/21/20 Contractor/Crew: _____
 Logged by: K. Huddleston Checked by: _____ Rig Model/Type: _____
 Location: Lat: 47.661592 Long: -117.141288 (WA State Plane N, NAD 83, ft.) Total Depth: 5 feet Depth to Seepage: Not Encountered
 Ground Surface Elevation: 2,042.82 feet (NAVD 88)
 Comments: _____



General Notes: Bottom of Test Pit at 5.0 feet.
 1. Refer to Figure A-1 for explanation of descriptions and symbols.
 2. Material stratum lines are interpretive and actual changes may be gradual. Solid lines indicate distinct contacts and dashed lines indicate gradual or approximate contacts.
 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.
 5. Location and ground surface elevations are approximate.

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Date Started: <u>12/21/20</u>	Date Completed: <u>12/21/20</u>	Contractor/Crew: _____
Logged by: <u>K. Huddleston</u>	Checked by: _____	Rig Model/Type: _____
Location: <u>Lat: 47.661129 Long: -117.142031 (WA State Plane N, NAD 83, ft.)</u>		Total Depth: <u>5 feet</u> Depth to Seepage: <u>Not Encountered</u>
Ground Surface Elevation: <u>2,043.21 feet (NAVD 88)</u>		
Comments: _____		

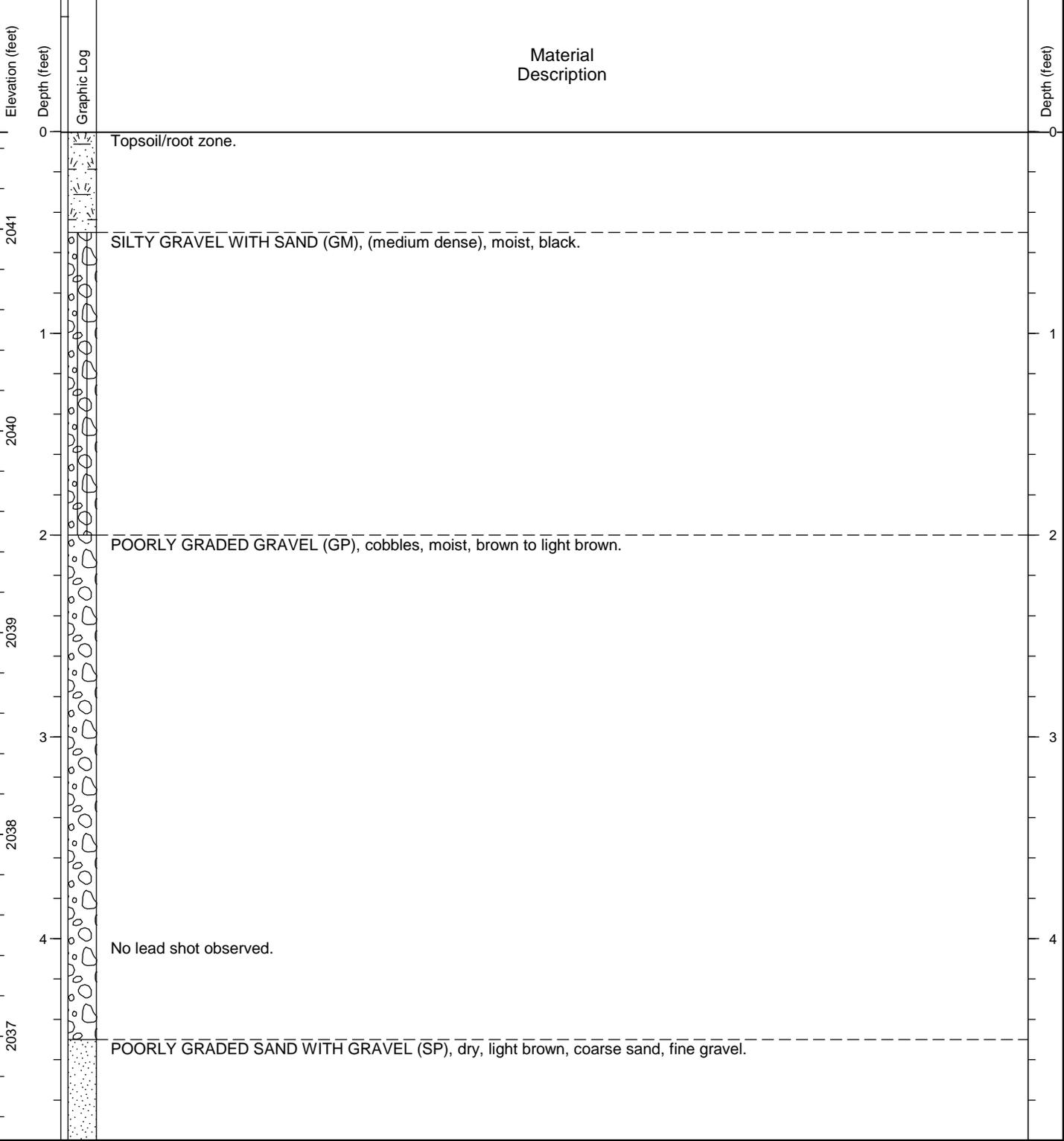


General Notes: Bottom of Test Pit at 5.0 feet.

1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Material stratum lines are interpretive and actual changes may be gradual. Solid lines indicate distinct contacts and dashed lines indicate gradual or approximate contacts.
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.
5. Location and ground surface elevations are approximate.

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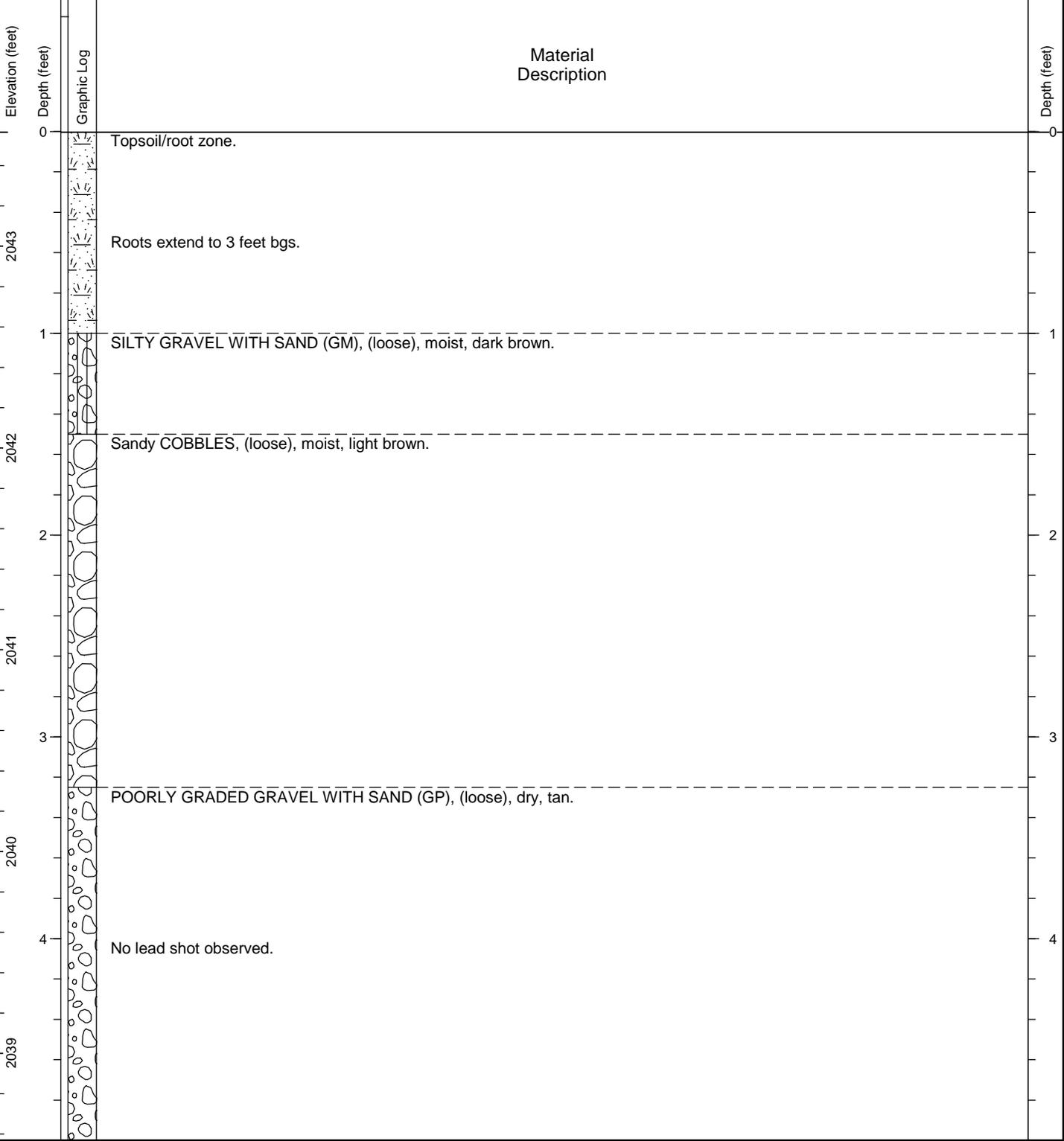
Date Started: 12/21/20 Date Completed: 12/21/20 Contractor/Crew: _____
 Logged by: K. Huddleston Checked by: _____ Rig Model/Type: _____
 Location: Lat: 47.661409 Long: -117.140152 (WA State Plane N, NAD 83, ft.) Total Depth: 5 feet Depth to Seepage: Not Encountered
 Ground Surface Elevation: 2,041.48 feet (NAVD 88)
 Comments: _____



General Notes:
 1. Refer to Figure A-1 for explanation of descriptions and symbols.
 2. Material stratum lines are interpretive and actual changes may be gradual. Solid lines indicate distinct contacts and dashed lines indicate gradual or approximate contacts.
 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.
 5. Location and ground surface elevations are approximate.

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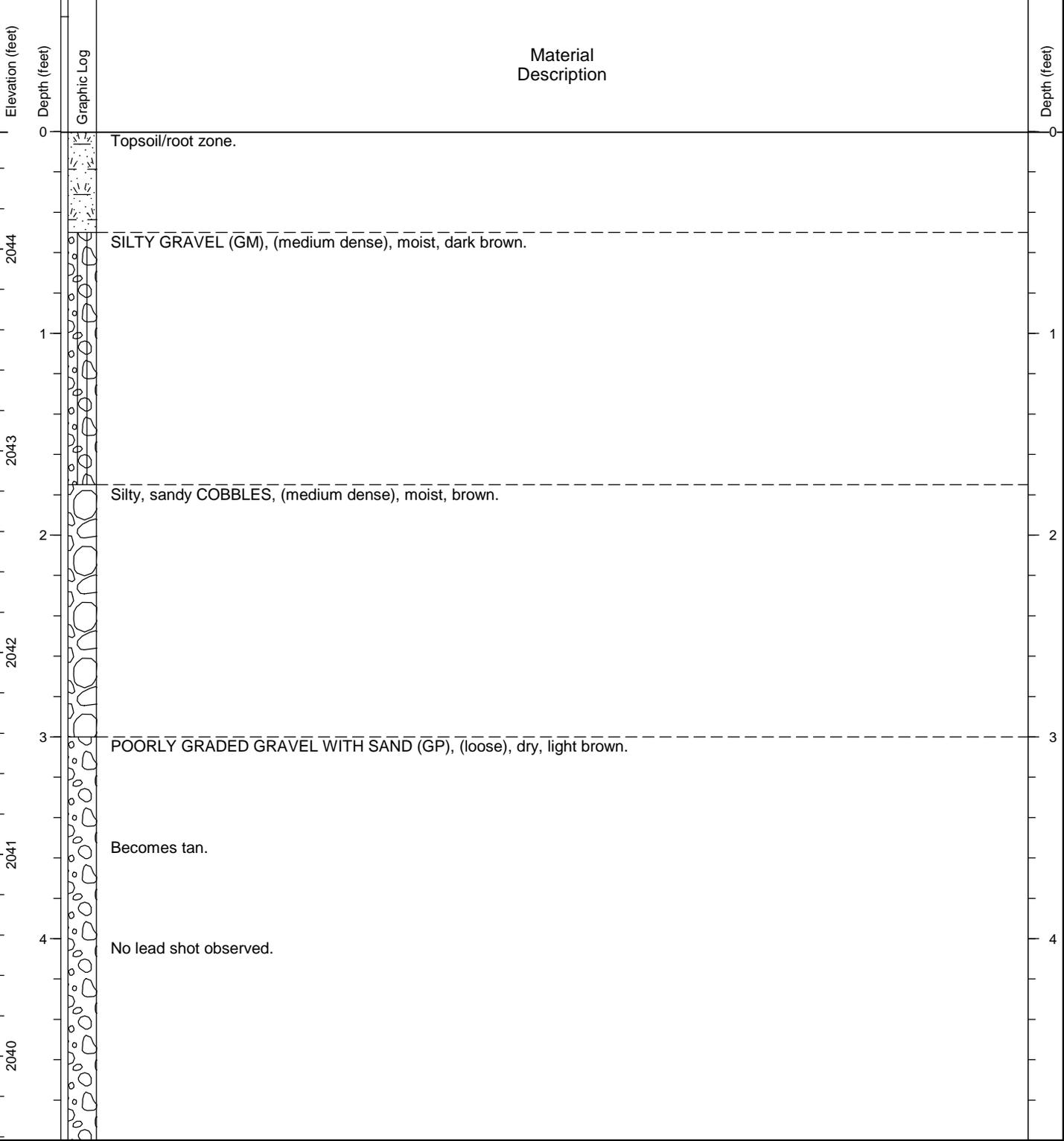
Date Started: 12/21/20 Date Completed: 12/21/20 Contractor/Crew: _____
 Logged by: K. Huddleston Checked by: _____ Rig Model/Type: _____
 Location: Lat: 47.660440 Long: -117.142554 (WA State Plane N, NAD 83, ft.) Total Depth: 5 feet Depth to Seepage: Not Encountered
 Ground Surface Elevation: 2,043.57 feet (NAVD 88)
 Comments: _____



General Notes: Bottom of Test Pit at 5.0 feet.
 1. Refer to Figure A-1 for explanation of descriptions and symbols.
 2. Material stratum lines are interpretive and actual changes may be gradual. Solid lines indicate distinct contacts and dashed lines indicate gradual or approximate contacts.
 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.
 5. Location and ground surface elevations are approximate.

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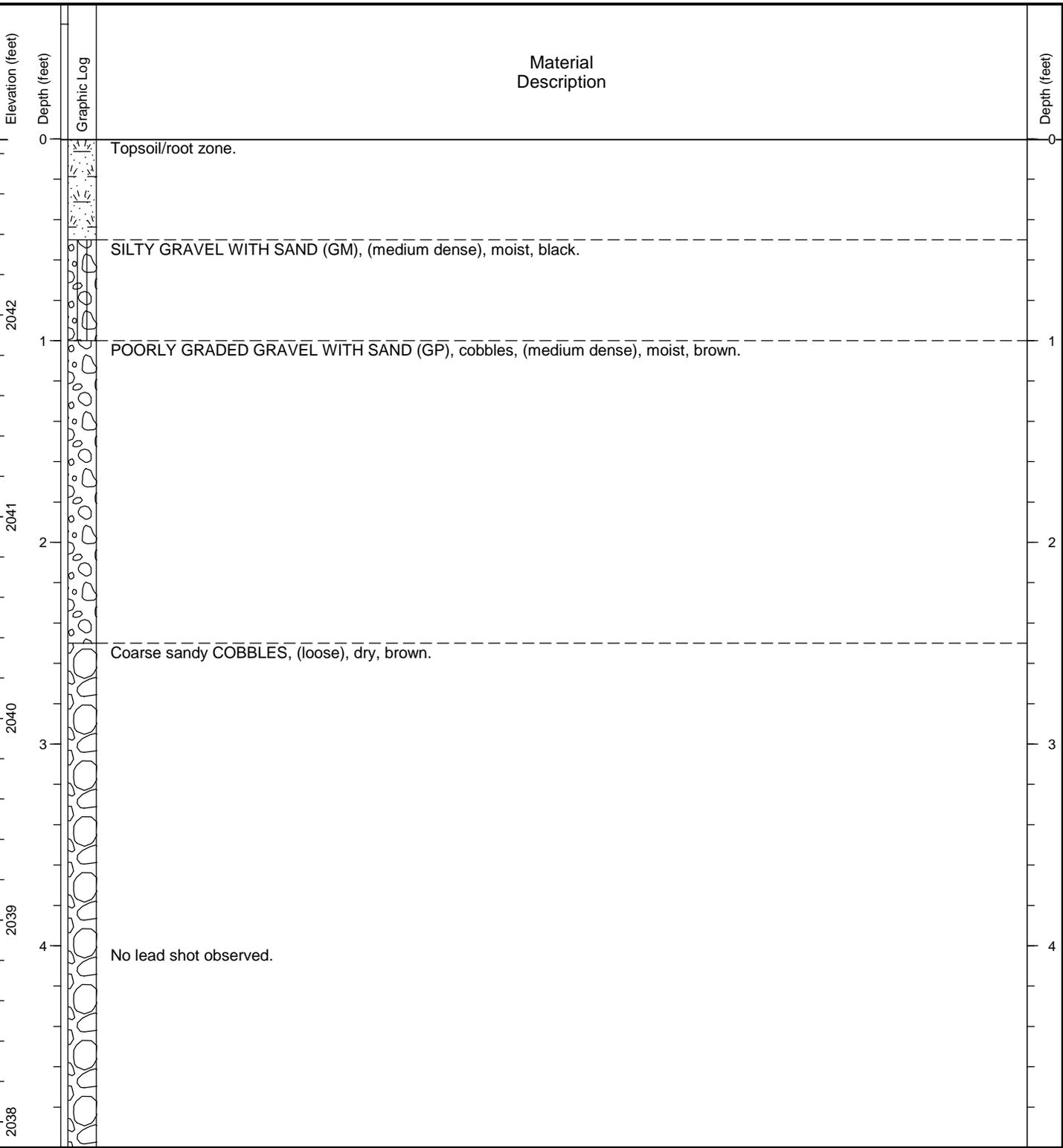
Date Started: 12/21/20 Date Completed: 12/21/20 Contractor/Crew: _____
 Logged by: K. Huddleston Checked by: _____ Rig Model/Type: _____
 Location: Lat: 47.660799 Long: -117.139117 (WA State Plane N, NAD 83, ft.) Total Depth: 5 feet Depth to Seepage: Not Encountered
 Ground Surface Elevation: 2,044.58 feet (NAVD 88)
 Comments: _____



General Notes: Bottom of Test Pit at 5.0 feet.
 1. Refer to Figure A-1 for explanation of descriptions and symbols.
 2. Material stratum lines are interpretive and actual changes may be gradual. Solid lines indicate distinct contacts and dashed lines indicate gradual or approximate contacts.
 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.
 5. Location and ground surface elevations are approximate.

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Date Started: <u>12/22/20</u>	Date Completed: <u>12/22/20</u>	Contractor/Crew: _____
Logged by: <u>K. Huddleston</u>	Checked by: _____	Rig Model/Type: _____
Location: <u>Lat: 47.659943 Long: -117.142232 (WA State Plane N, NAD 83, ft.)</u>		Total Depth: <u>5 feet</u> Depth to Seepage: <u>Not Encountered</u>
Ground Surface Elevation: <u>2,042.87 feet (NAVD 88)</u>		
Comments: _____		

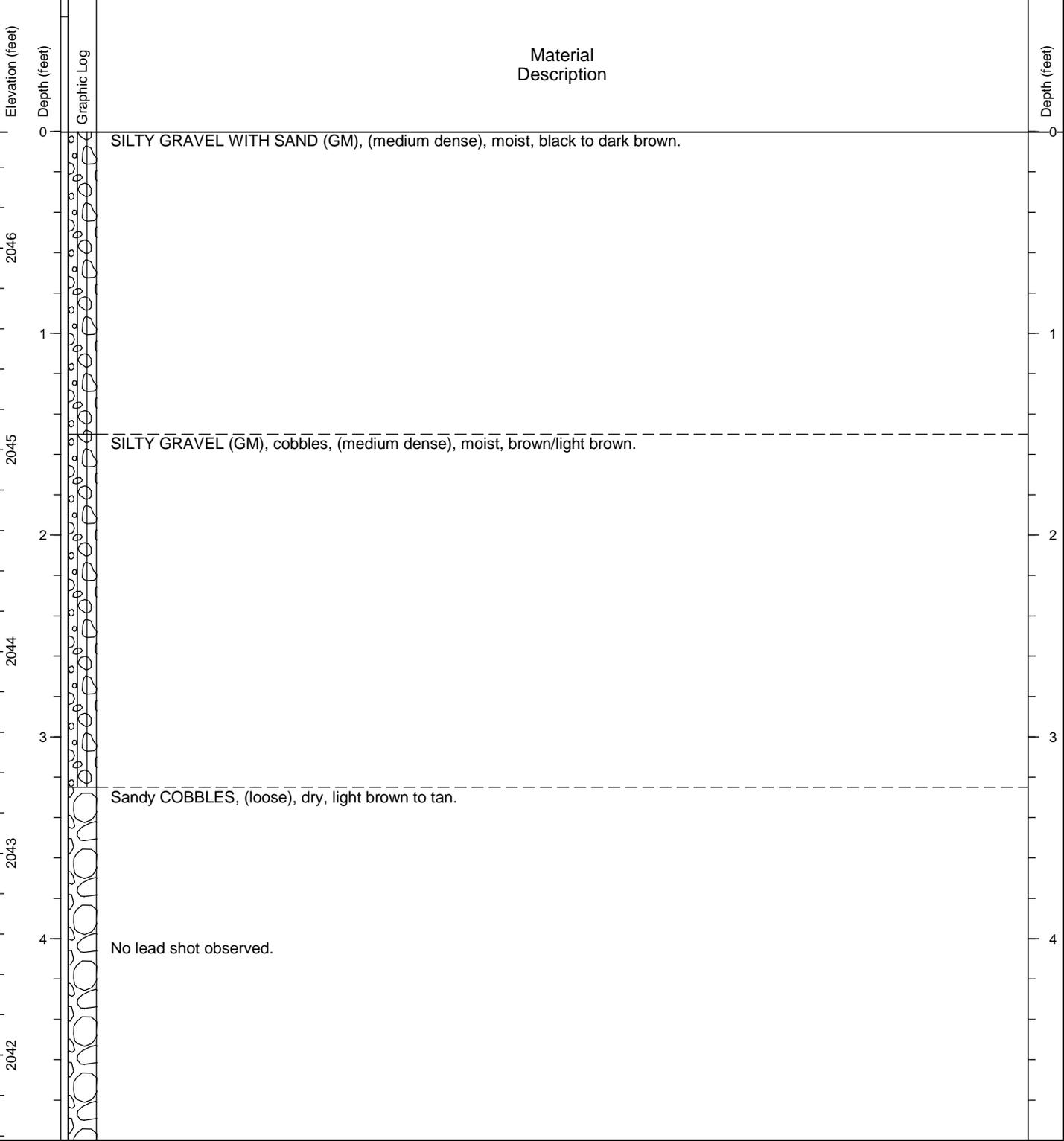


General Notes: Bottom of Test Pit at 5.0 feet.

- Refer to Figure A-1 for explanation of descriptions and symbols.
- Material stratum lines are interpretive and actual changes may be gradual. Solid lines indicate distinct contacts and dashed lines indicate gradual or approximate contacts.
- USCS designations are based on visual-manual identification (ASTM D 2488), unless otherwise supported by laboratory testing (ASTM D 2487).
- Groundwater level, if indicated, is at time of drilling/excavation (ATD) or for date specified. Level may vary with time.
- Location and ground surface elevations are approximate.

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Date Started: <u>12/21/20</u>	Date Completed: <u>12/21/20</u>	Contractor/Crew: _____
Logged by: <u>K. Huddleston</u>	Checked by: _____	Rig Model/Type: _____
Location: <u>Lat: 47.660124 Long: -117.138040 (WA State Plane N, NAD 83, ft.)</u>		Total Depth: <u>5 feet</u> Depth to Seepage: <u>Not Encountered</u>
Ground Surface Elevation: <u>2,046.58 feet (NAVD 88)</u>		
Comments: _____		

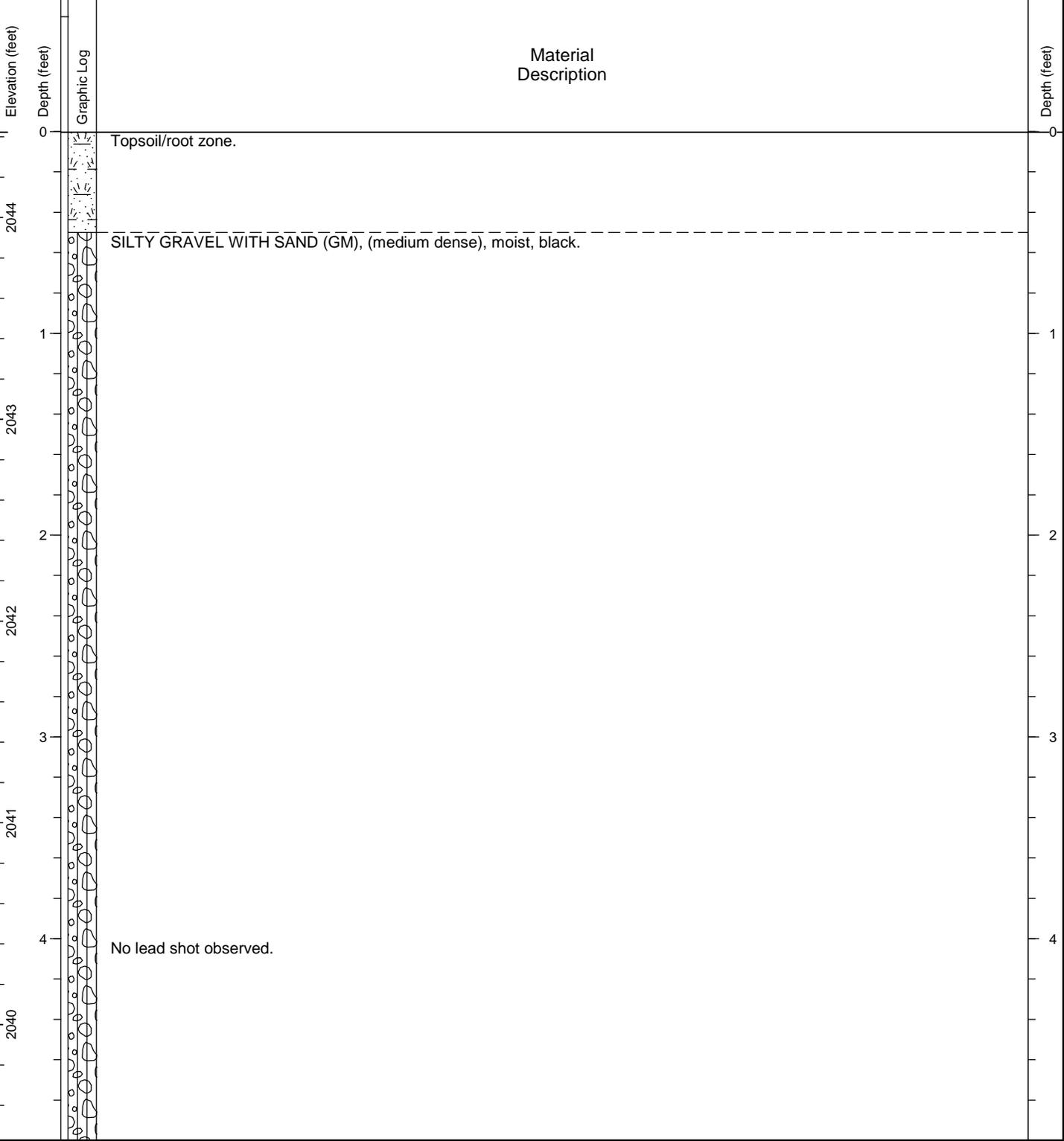


General Notes: Bottom of Test Pit at 5.0 feet.

1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Material stratum lines are interpretive and actual changes may be gradual. Solid lines indicate distinct contacts and dashed lines indicate gradual or approximate contacts.
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.
5. Location and ground surface elevations are approximate.

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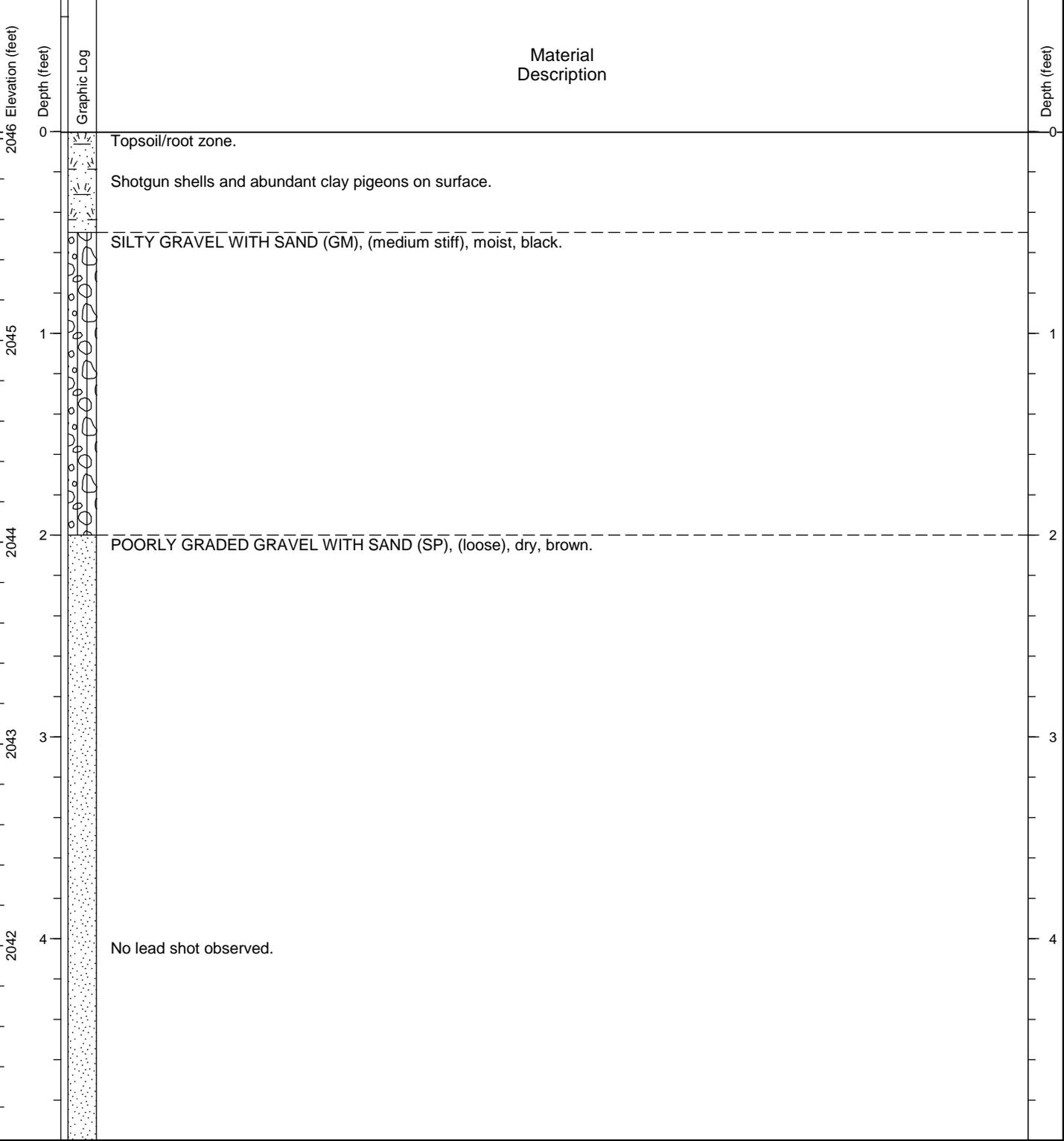
Date Started: 12/22/20 Date Completed: 12/22/20 Contractor/Crew: _____
 Logged by: K. Huddleston Checked by: _____ Rig Model/Type: _____
 Location: Lat: 47.659263 Long: -117.141206 (WA State Plane N, NAD 83, ft.) Total Depth: 5 feet Depth to Seepage: Not Encountered
 Ground Surface Elevation: 2,044.43 feet (NAVD 88)
 Comments: _____



General Notes: Bottom of Test Pit at 5.0 feet.
 1. Refer to Figure A-1 for explanation of descriptions and symbols.
 2. Material stratum lines are interpretive and actual changes may be gradual. Solid lines indicate distinct contacts and dashed lines indicate gradual or approximate contacts.
 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.
 5. Location and ground surface elevations are approximate.

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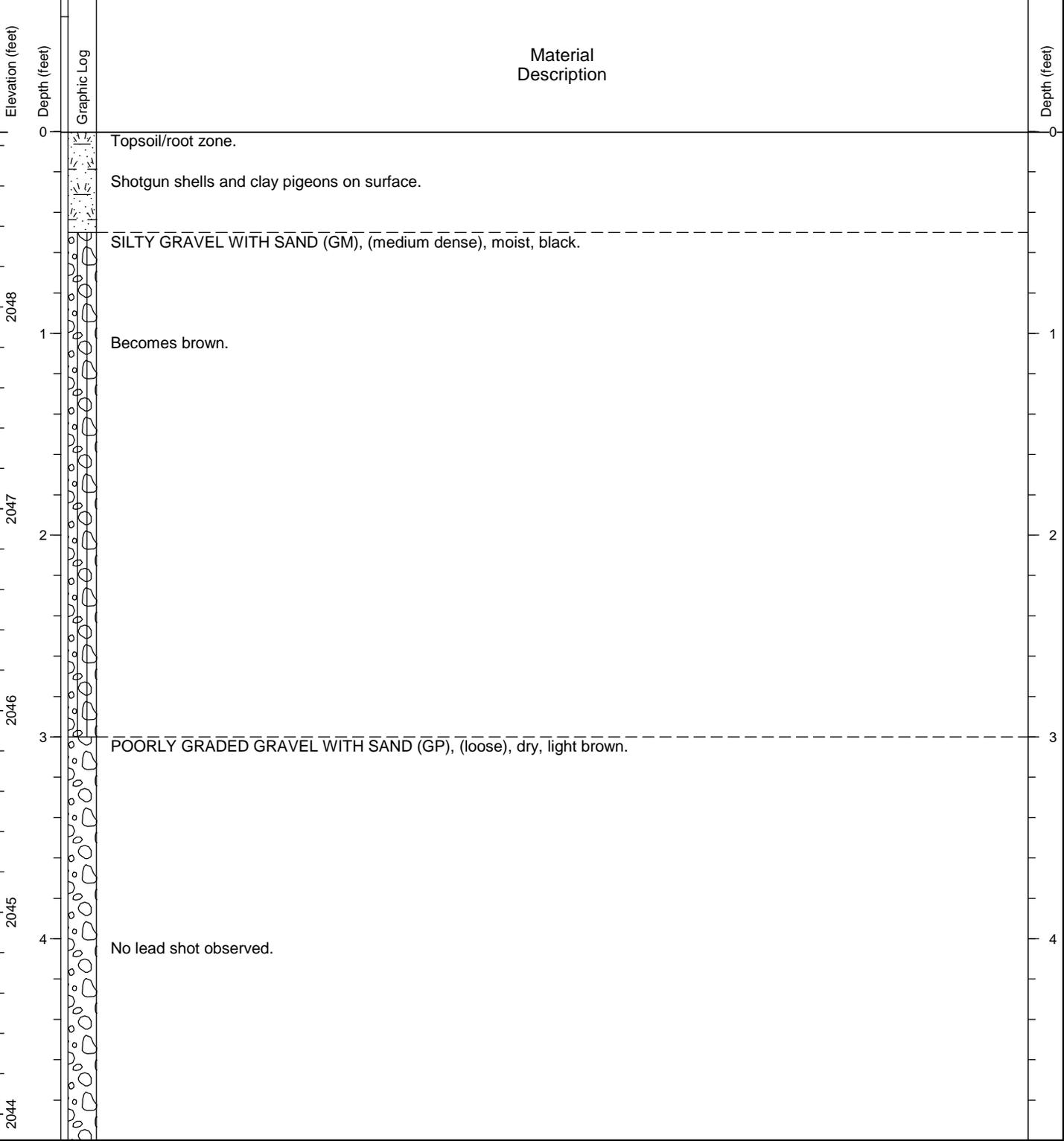
Date Started: 12/22/20 Date Completed: 12/22/20 Contractor/Crew: _____
 Logged by: K. Huddleston Checked by: _____ Rig Model/Type: _____
 Location: Lat: 47.658599 Long: -117.140138 (WA State Plane N, NAD 83, ft.) Total Depth: 5 feet Depth to Seepage: Not Encountered
 Ground Surface Elevation: 2,046.03 feet (NAVD 88)
 Comments: _____



General Notes: Bottom of Test Pit at 5.0 feet.
 1. Refer to Figure A-1 for explanation of descriptions and symbols.
 2. Material stratum lines are interpretive and actual changes may be gradual. Solid lines indicate distinct contacts and dashed lines indicate gradual or approximate contacts.
 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.
 5. Location and ground surface elevations are approximate.

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Date Started: <u>12/22/20</u>	Date Completed: <u>12/22/20</u>	Contractor/Crew: _____
Logged by: <u>K. Huddleston</u>	Checked by: _____	Rig Model/Type: _____
Location: <u>Lat: 47.657890 Long: -117.139098 (WA State Plane N, NAD 83, ft.)</u>		Total Depth: <u>5 feet</u> Depth to Seepage: <u>Not Encountered</u>
Ground Surface Elevation: <u>2,048.87 feet (NAVD 88)</u>		
Comments: _____		

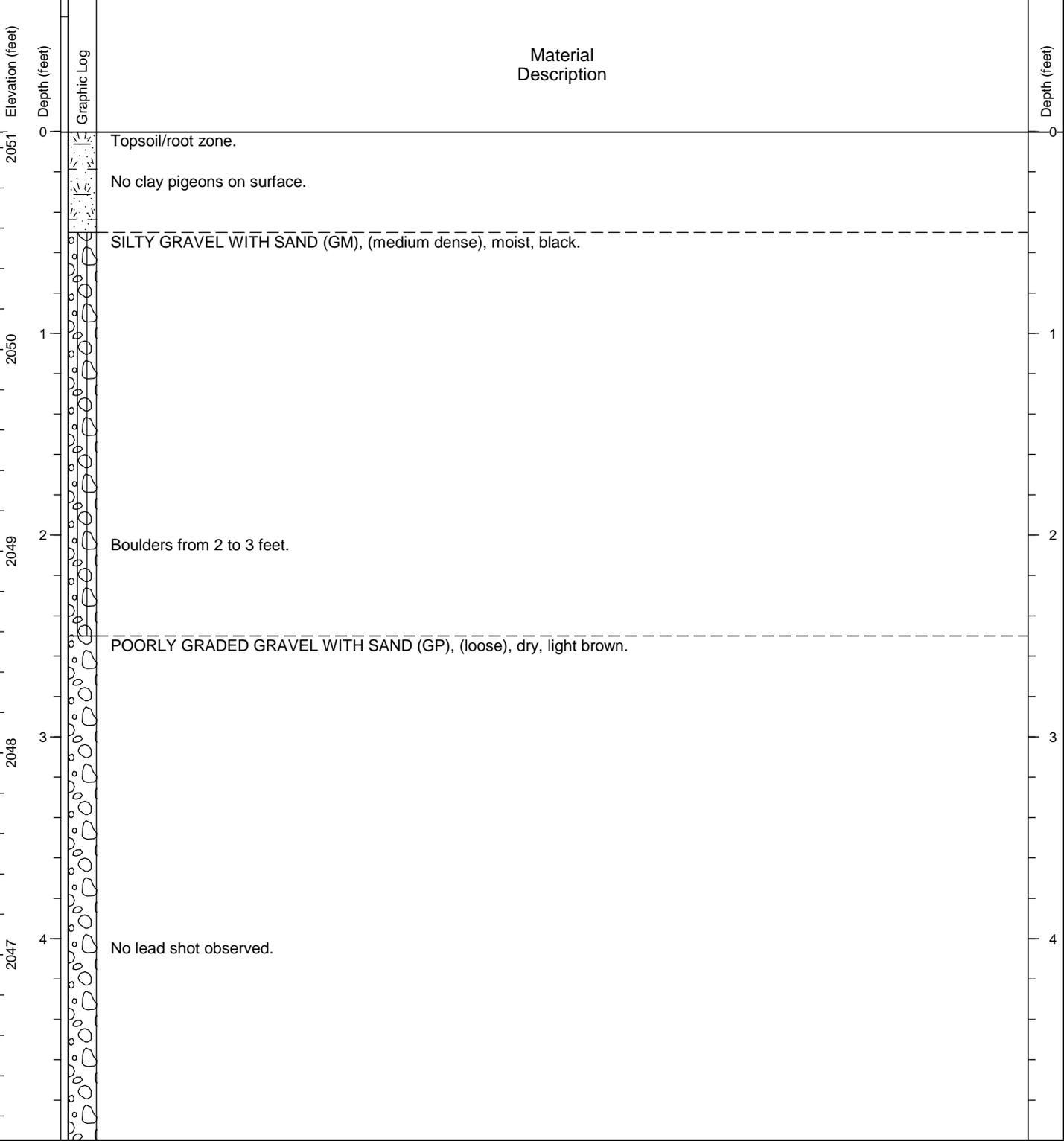


General Notes: Bottom of Test Pit at 5.0 feet.

1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Material stratum lines are interpretive and actual changes may be gradual. Solid lines indicate distinct contacts and dashed lines indicate gradual or approximate contacts.
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.
5. Location and ground surface elevations are approximate.

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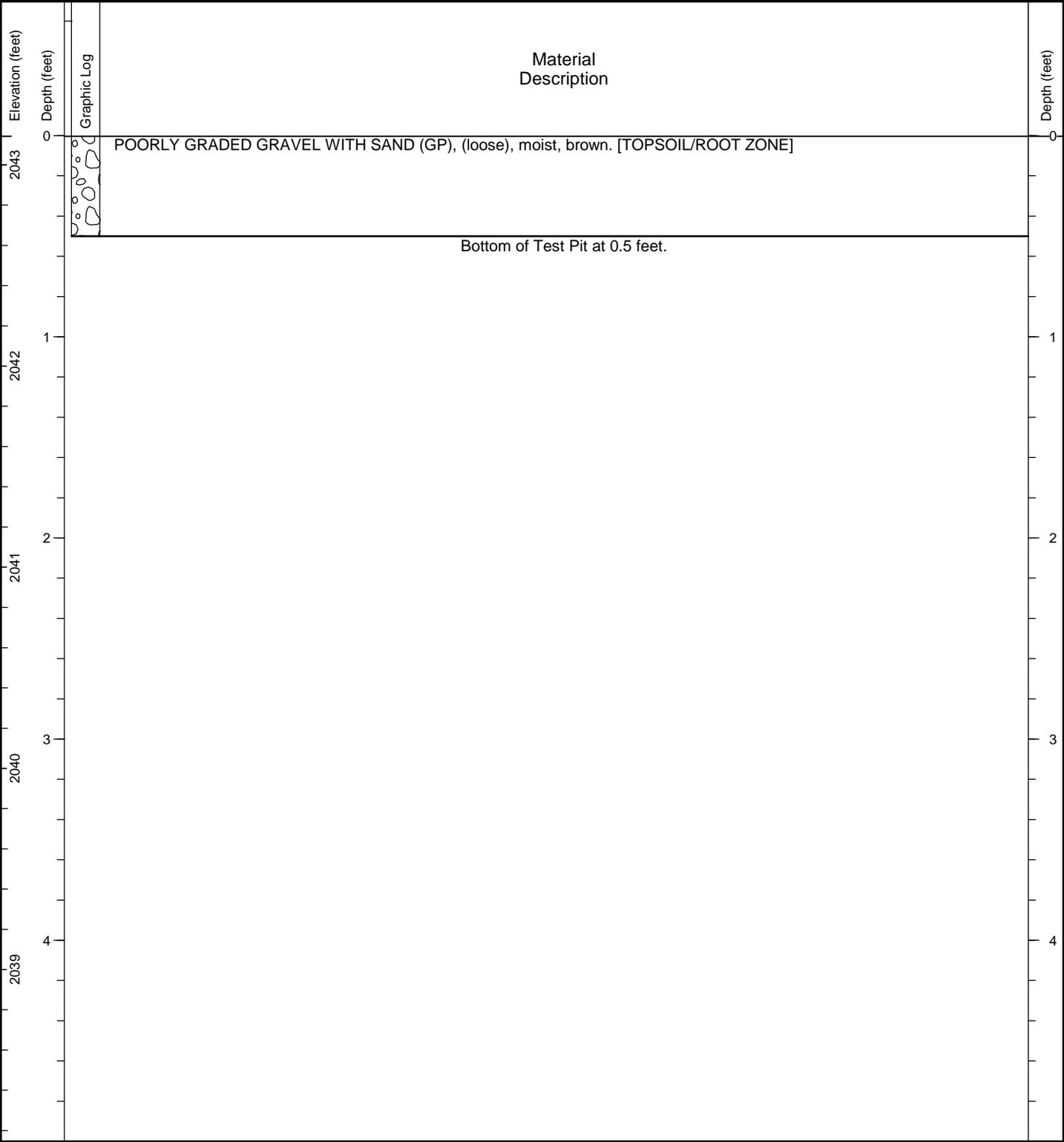
Date Started: 12/22/20 Date Completed: 12/22/20 Contractor/Crew: _____
 Logged by: K. Huddleston Checked by: _____ Rig Model/Type: _____
 Location: Lat: 47.657202 Long: -117.138008 (WA State Plane N, NAD 83, ft.) Total Depth: 5 feet Depth to Seepage: Not Encountered
 Ground Surface Elevation: 2,051.08 feet (NAVD 88)
 Comments: _____



General Notes: Bottom of Test Pit at 5.0 feet.
 1. Refer to Figure A-1 for explanation of descriptions and symbols.
 2. Material stratum lines are interpretive and actual changes may be gradual. Solid lines indicate distinct contacts and dashed lines indicate gradual or approximate contacts.
 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.
 5. Location and ground surface elevations are approximate.

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Date Started: <u>1/4/21</u>	Date Completed: <u>1/4/21</u>	Contractor/Crew: _____
Logged by: <u>W. McDonald</u>	Checked by: _____	Rig Model/Type: _____
Location: <u>Lat: 47.659782 Long: -117.142529 (WA State Plane N, NAD 83, ft.)</u>		Total Depth: <u>0.5 feet</u> Depth to Seepage: <u>Not Encountered</u>
Ground Surface Elevation: <u>2,043.15 feet (NAVD 88)</u>		
Comments: _____		

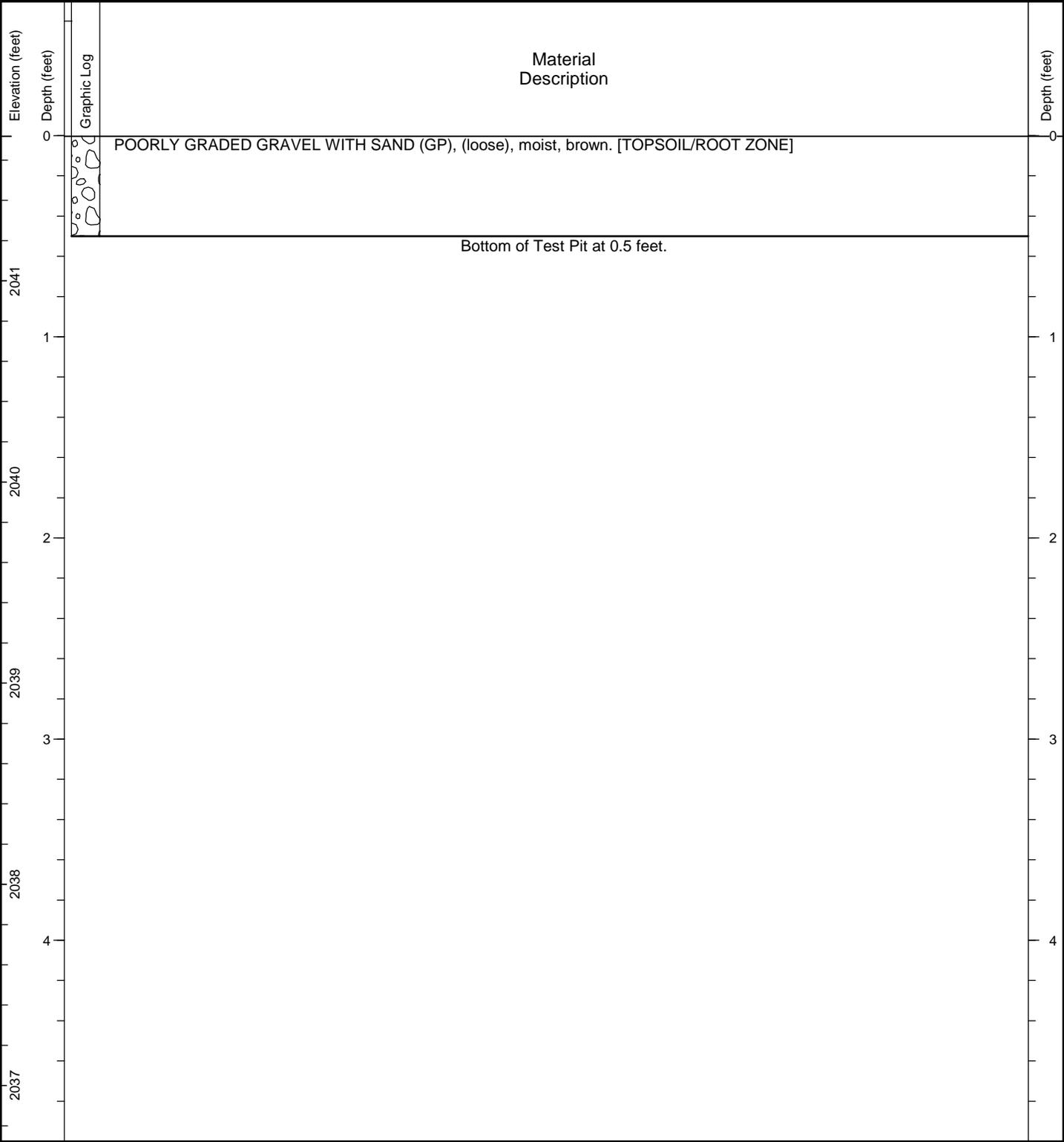


General Notes:

1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Material stratum lines are interpretive and actual changes may be gradual. Solid lines indicate distinct contacts and dashed lines indicate gradual or approximate contacts.
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.
5. Location and ground surface elevations are approximate.

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Date Started: <u>1/4/21</u>	Date Completed: <u>1/4/21</u>	Contractor/Crew: _____
Logged by: <u>W. McDonald</u>	Checked by: _____	Rig Model/Type: _____
Location: <u>Lat: 47.659090 Long: -117.141445 (WA State Plane N, NAD 83, ft.)</u>		Total Depth: <u>0.5 feet</u> Depth to Seepage: <u>Not Encountered</u>
Ground Surface Elevation: <u>2,041.72 feet (NAVD 88)</u>		
Comments: _____		

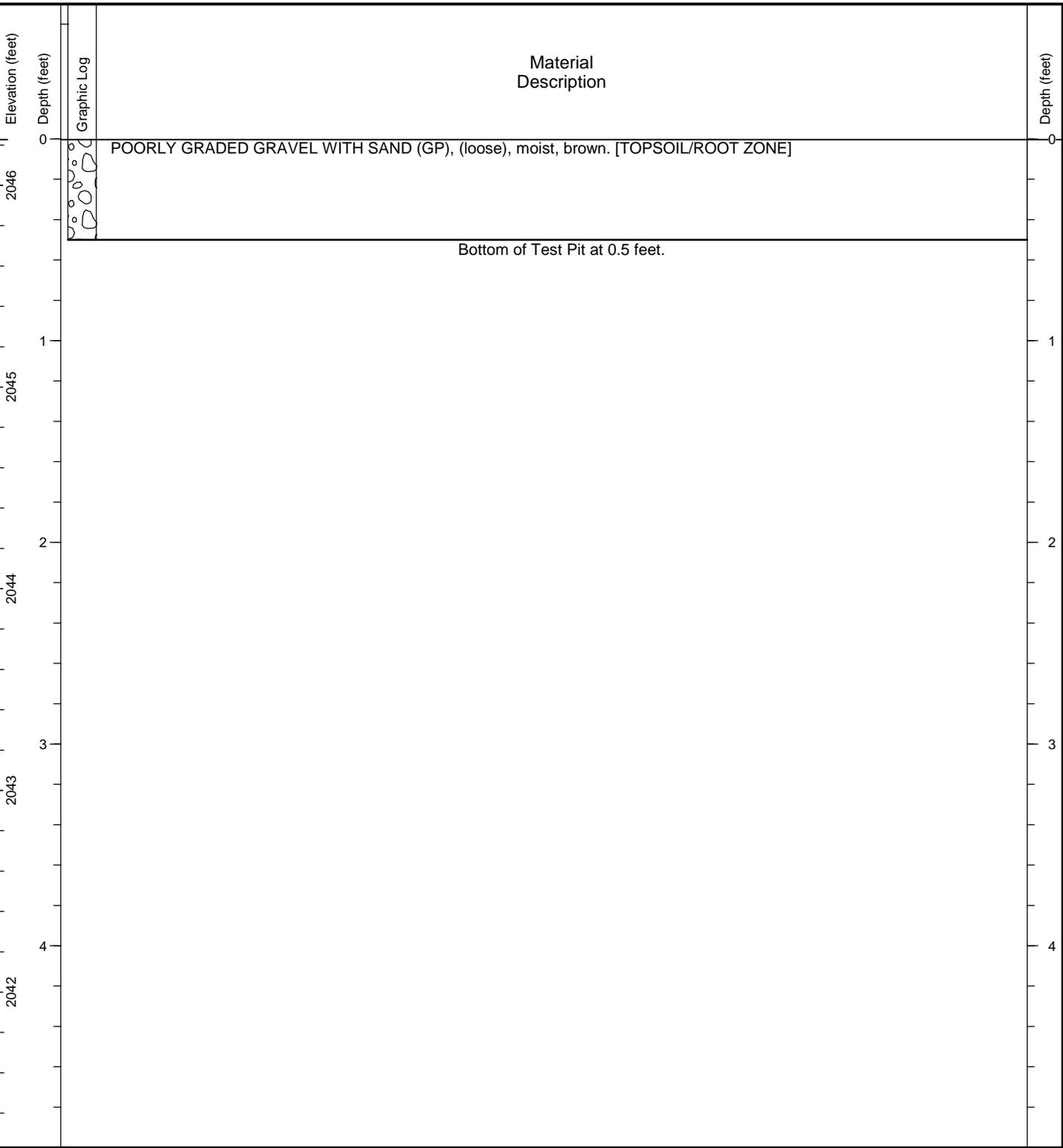


General Notes:

1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Material stratum lines are interpretive and actual changes may be gradual. Solid lines indicate distinct contacts and dashed lines indicate gradual or approximate contacts.
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.
5. Location and ground surface elevations are approximate.

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Date Started: <u>1/4/21</u>	Date Completed: <u>1/4/21</u>	Contractor/Crew: _____
Logged by: <u>W. McDonald</u>	Checked by: _____	Rig Model/Type: _____
Location: <u>Lat: 47.658425 Long: -117.140388 (WA State Plane N, NAD 83, ft.)</u>		Total Depth: <u>0.5 feet</u> Depth to Seepage: <u>Not Encountered</u>
Ground Surface Elevation: <u>2,046.23 feet (NAVD 88)</u>		
Comments: _____		

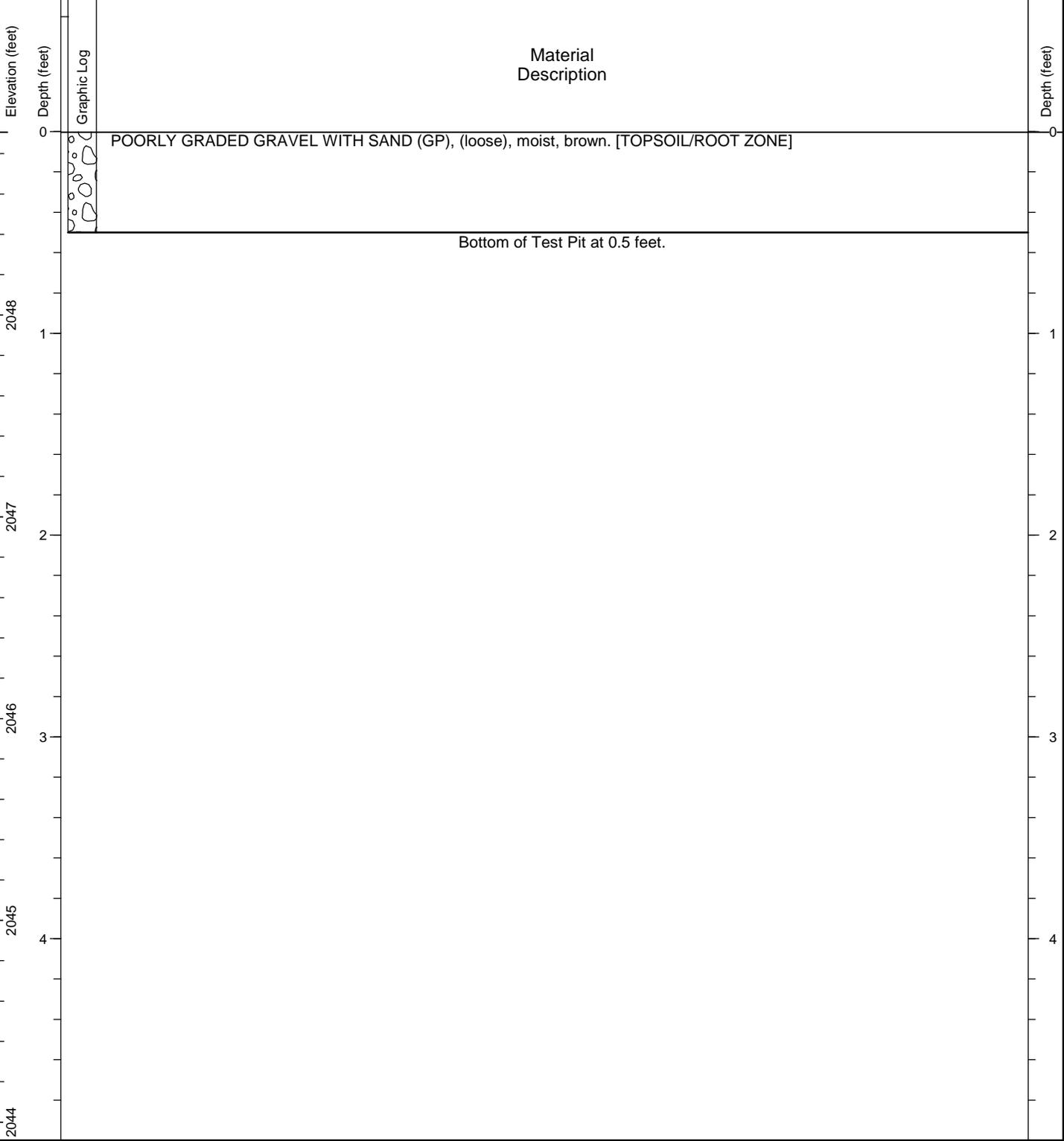


General Notes:

1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Material stratum lines are interpretive and actual changes may be gradual. Solid lines indicate distinct contacts and dashed lines indicate gradual or approximate contacts.
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.
5. Location and ground surface elevations are approximate.

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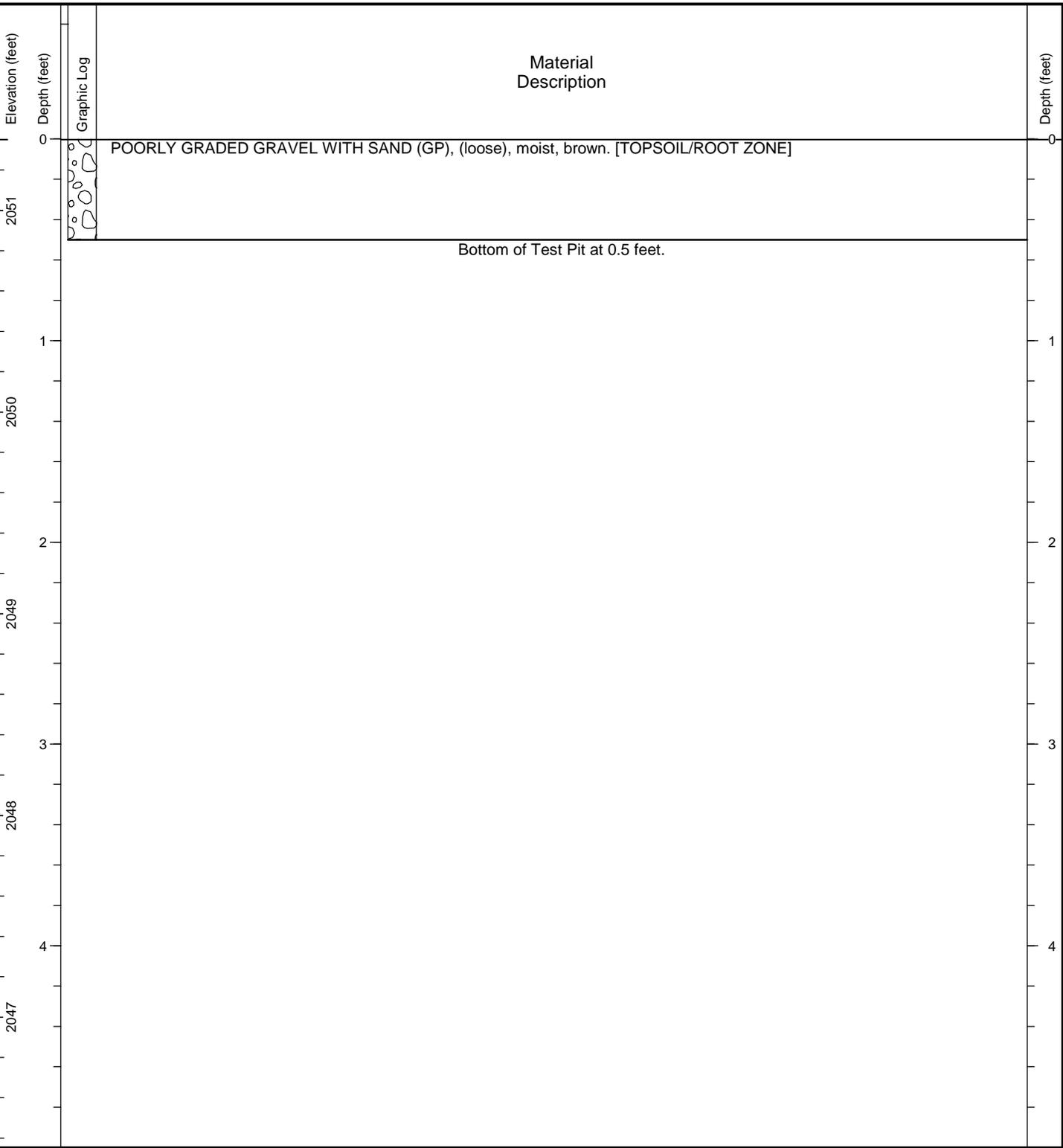
Date Started: 1/4/21 Date Completed: 1/4/21 Contractor/Crew: _____
 Logged by: W. McDonald Checked by: _____ Rig Model/Type: _____
 Location: Lat: 47.657700 Long: -117.139345 (WA State Plane N, NAD 83, ft.) Total Depth: 0.5 feet Depth to Seepage: Not Encountered
 Ground Surface Elevation: 2,048.91 feet (NAVD 88)
 Comments: _____



General Notes:
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 2. Material stratum lines are interpretive and actual changes may be gradual. Solid lines indicate distinct contacts and dashed lines indicate gradual or approximate contacts.
 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.
 5. Location and ground surface elevations are approximate.

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Date Started: <u>1/4/21</u>	Date Completed: <u>1/4/21</u>	Contractor/Crew: _____
Logged by: <u>W. McDonald</u>	Checked by: _____	Rig Model/Type: _____
Location: <u>Lat: 47.657113 Long: -117.138271 (WA State Plane N, NAD 83, ft.)</u>		Total Depth: <u>0.5 feet</u> Depth to Seepage: <u>Not Encountered</u>
Ground Surface Elevation: <u>2,051.35 feet (NAVD 88)</u>		
Comments: _____		

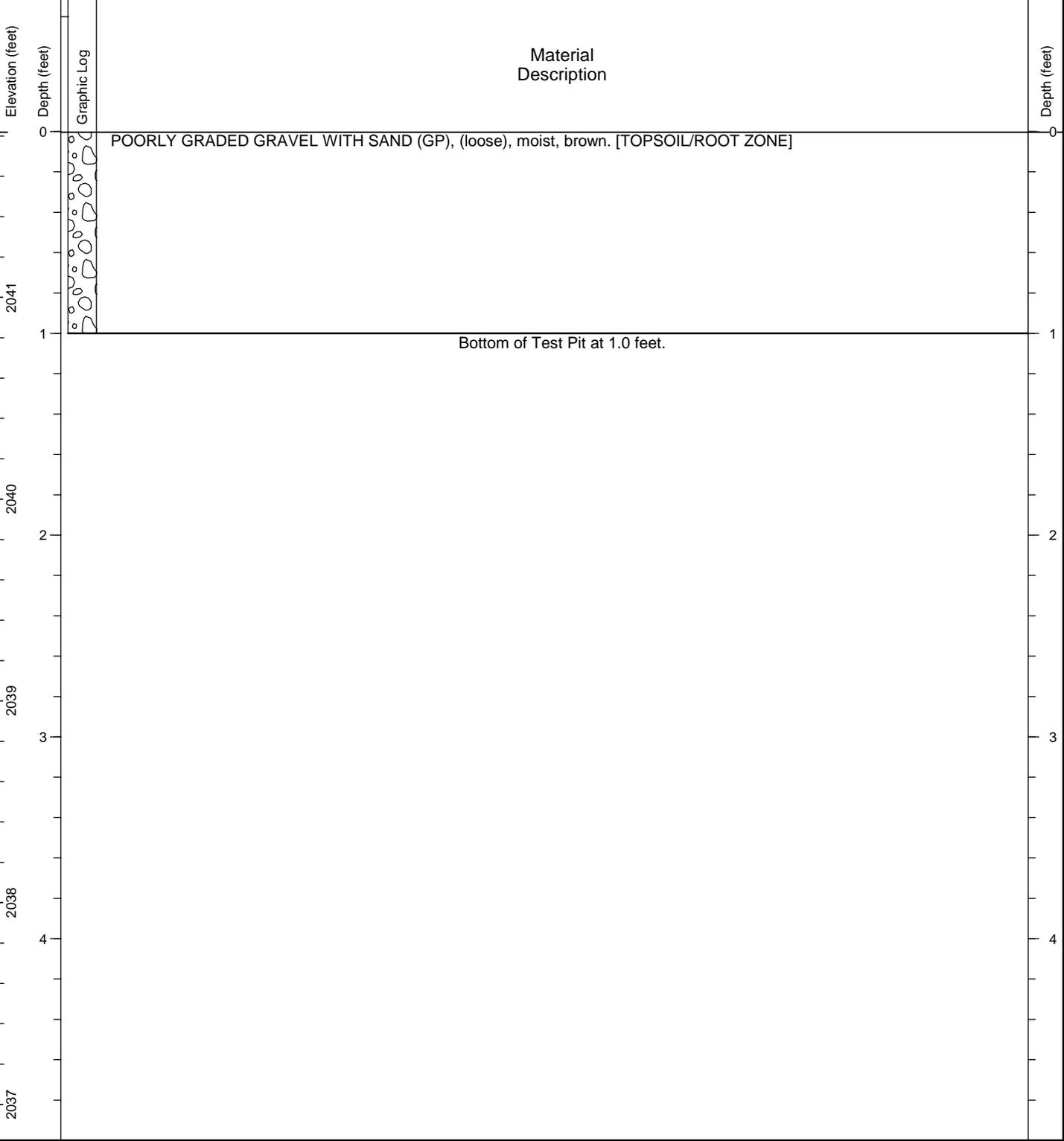


General Notes:

1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Material stratum lines are interpretive and actual changes may be gradual. Solid lines indicate distinct contacts and dashed lines indicate gradual or approximate contacts.
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4. Groundwater level, if indicated, is at time of drilling/excavation (ATD) or for date specified. Level may vary with time.
5. Location and ground surface elevations are approximate.

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Date Started: <u>1/19/21</u>	Date Completed: <u>1/19/21</u>	Contractor/Crew: _____
Logged by: <u>W. McDonald</u>	Checked by: _____	Rig Model/Type: _____
Location: <u>Lat: 47.658935 Long: -117.141818 (WA State Plane N, NAD 83, ft.)</u>		Total Depth: <u>1 feet</u> Depth to Seepage: <u>Not Encountered</u>
Ground Surface Elevation: <u>2,041.82 feet (NAVD 88)</u>		
Comments: _____		

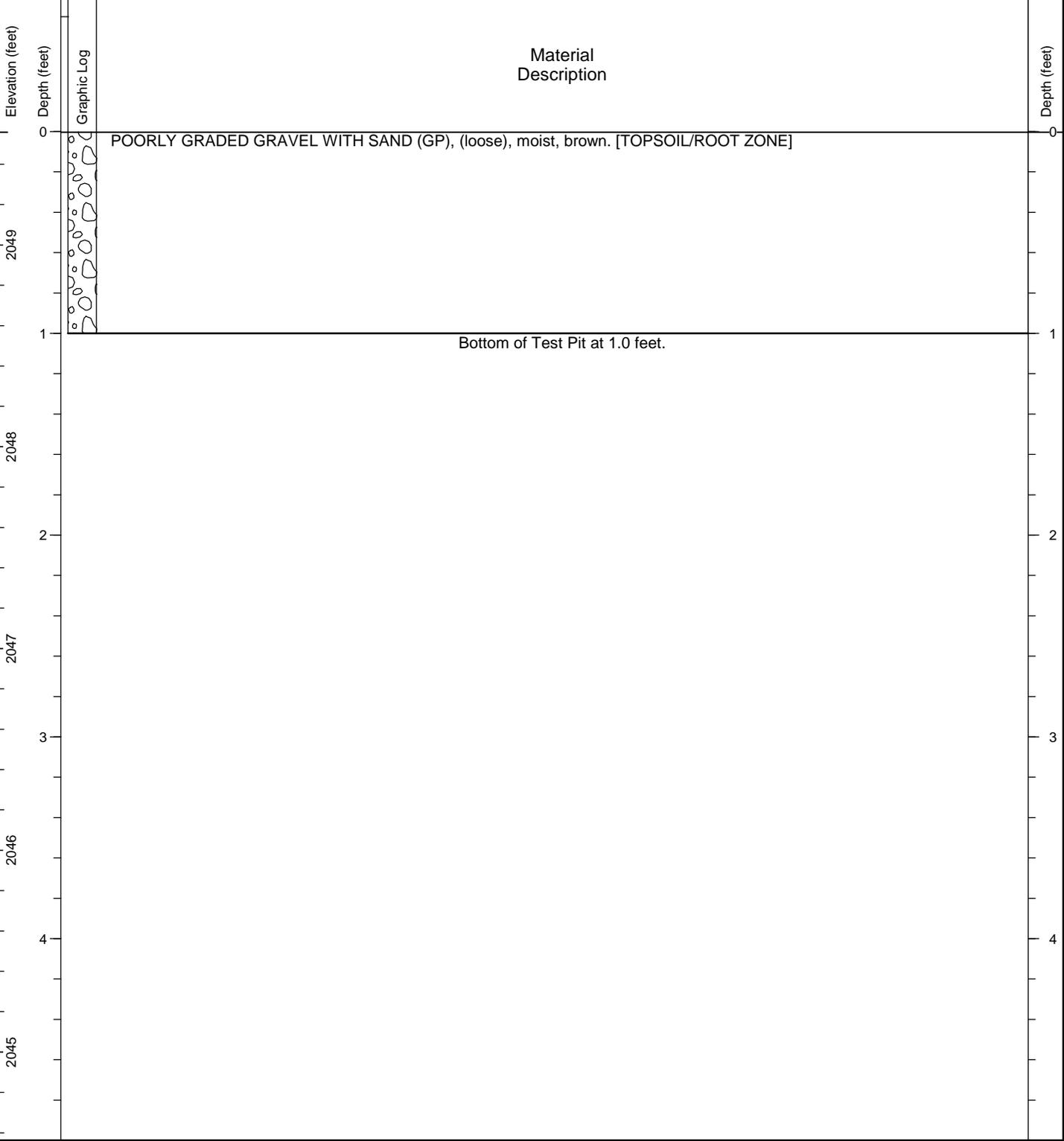


General Notes:

1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Material stratum lines are interpretive and actual changes may be gradual. Solid lines indicate distinct contacts and dashed lines indicate gradual or approximate contacts.
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.
5. Location and ground surface elevations are approximate.

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Date Started: <u>1/19/21</u>	Date Completed: <u>1/19/21</u>	Contractor/Crew: _____
Logged by: <u>W. McDonald</u>	Checked by: _____	Rig Model/Type: _____
Location: <u>Lat: 47.657540 Long: -117.139633 (WA State Plane N, NAD 83, ft.)</u>		Total Depth: <u>1 feet</u> Depth to Seepage: <u>Not Encountered</u>
Ground Surface Elevation: <u>2,049.56 feet (NAVD 88)</u>		
Comments: _____		

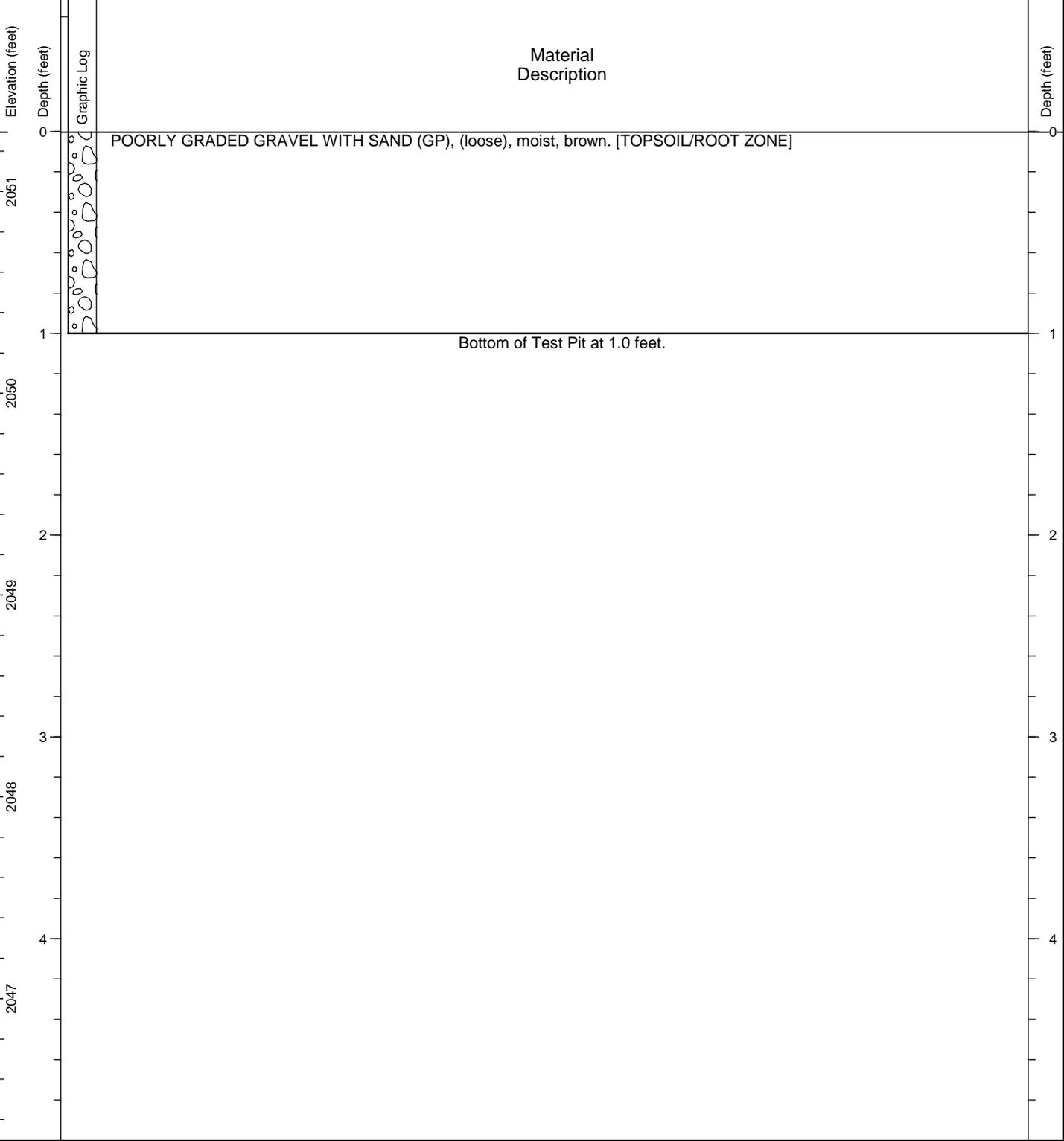


General Notes:

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Date Started: <u>1/19/21</u>	Date Completed: <u>1/19/21</u>	Contractor/Crew: _____
Logged by: <u>W. McDonald</u>	Checked by: _____	Rig Model/Type: _____
Location: <u>Lat: 47.657097 Long: -117.138598 (WA State Plane N, NAD 83, ft.)</u>	Total Depth: <u>1 feet</u> Depth to Seepage: <u>Not Encountered</u>	
Ground Surface Elevation: <u>2,051.30 feet (NAVD 88)</u>		
Comments: _____		

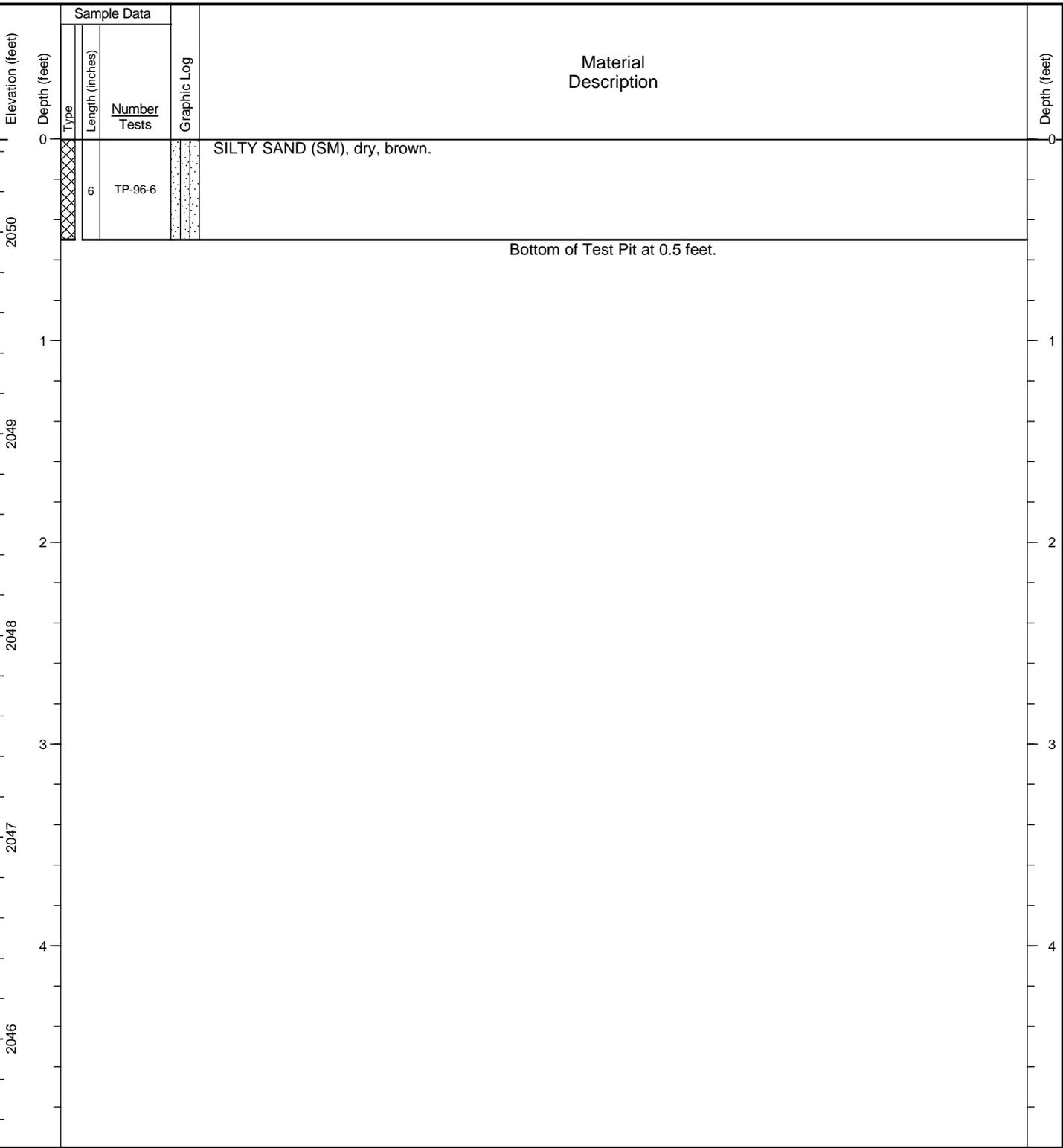


General Notes:

1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Material stratum lines are interpretive and actual changes may be gradual. Solid lines indicate distinct contacts and dashed lines indicate gradual or approximate contacts.
3. USCS designations are based on visual-manual identification (ASTM D 2488), unless otherwise supported by laboratory testing (ASTM D 2487).
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Date Started: 3/4/21 Date Completed: 3/4/21 Contractor/Crew: _____
 Logged by: K. Huddleston Checked by: _____ Rig Model/Type: _____
 Location: Lat: 47.657184 Long: -117.139819 (WA State Plane N, NAD 83, ft.) Total Depth: 0.5 feet Depth to Seepage: Not Encountered
 Ground Surface Elevation: 2,050.46 feet (NAVD 88)
 Comments: _____

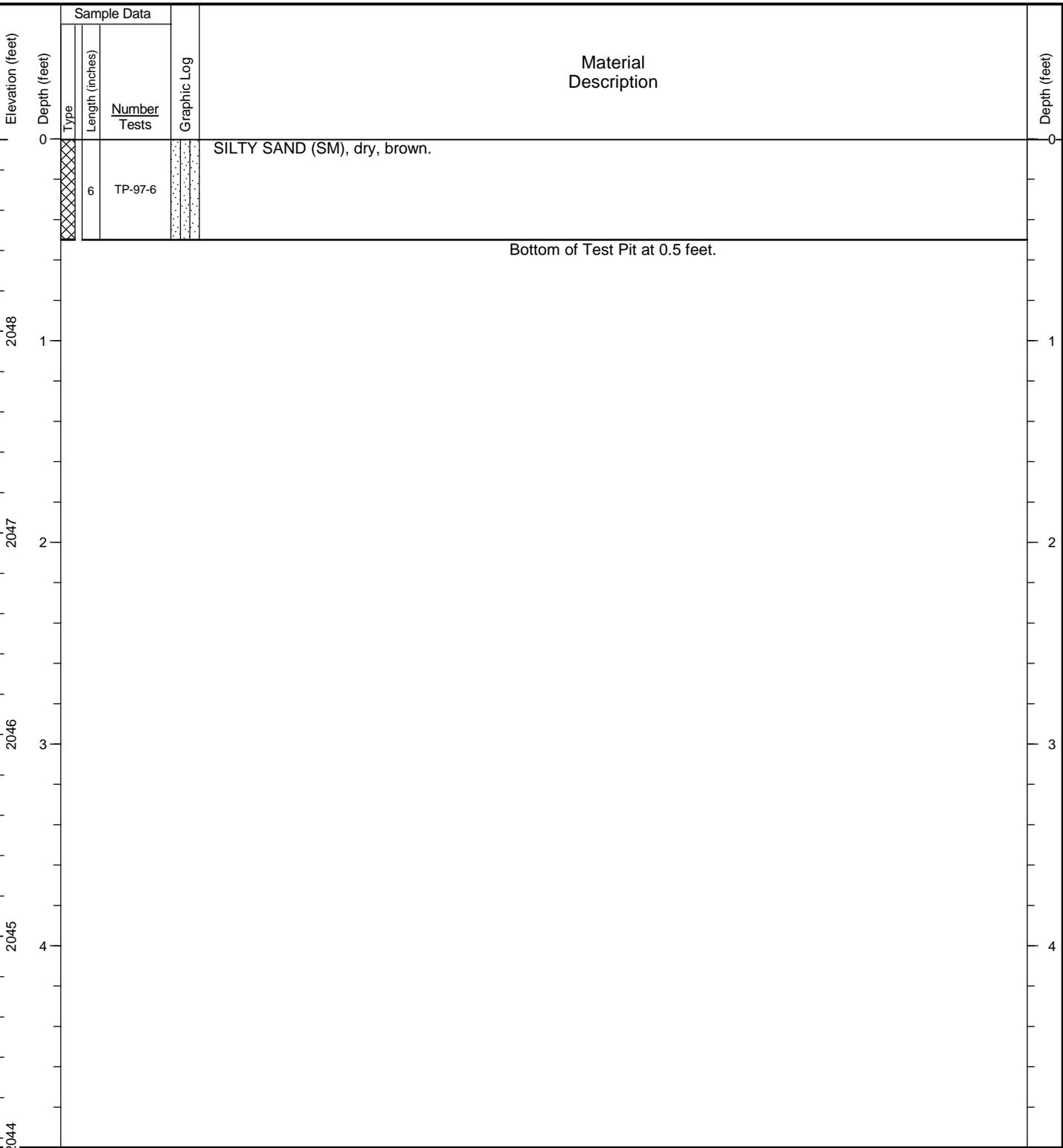


General Notes:

1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Material stratum lines are interpretive and actual changes may be gradual. Solid lines indicate distinct contacts and dashed lines indicate gradual or approximate contacts.
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.
5. Location and ground surface elevations are approximate.

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Date Started: 3/4/21 Date Completed: 3/4/21 Contractor/Crew: _____
 Logged by: K. Huddleston Checked by: _____ Rig Model/Type: _____
 Location: Lat: 47.657637 Long: -117.140909 (WA State Plane N, NAD 83, ft.) Total Depth: 0.5 feet Depth to Seepage: Not Encountered
 Ground Surface Elevation: 2,048.95 feet (NAVD 88)
 Comments: _____

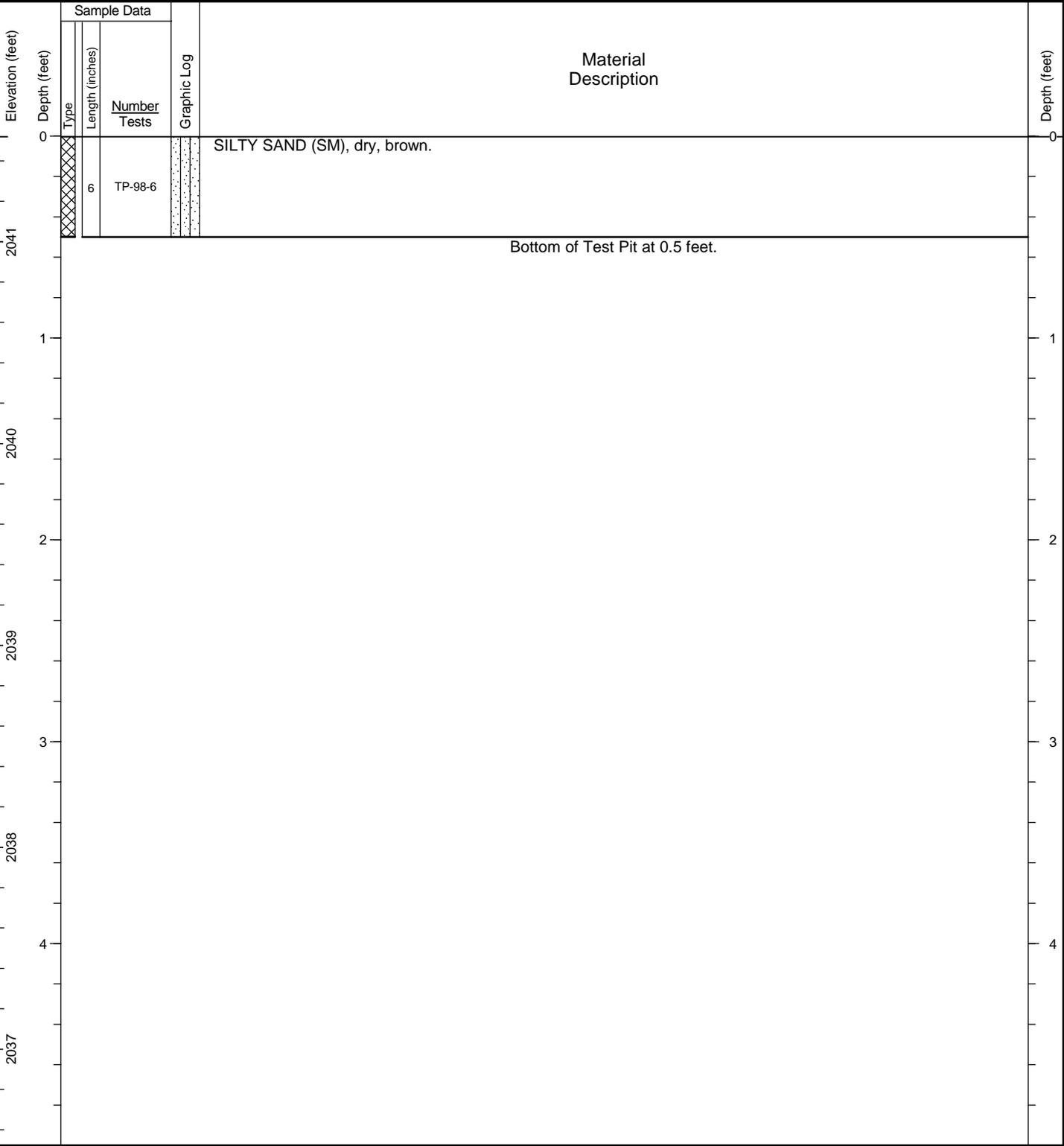


General Notes:

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5. Location and ground surface elevations are approximate.

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Date Started: <u>3/4/21</u>	Date Completed: <u>3/4/21</u>	Contractor/Crew: _____
Logged by: <u>K. Huddleston</u>	Checked by: _____	Rig Model/Type: _____
Location: <u>Lat: 47.658694 Long: -117.142146 (WA State Plane N, NAD 83, ft.)</u>		Total Depth: <u>0.5 feet</u> Depth to Seepage: <u>Not Encountered</u>
Ground Surface Elevation: <u>2,041.52 feet (NAVD 88)</u>		
Comments: _____		

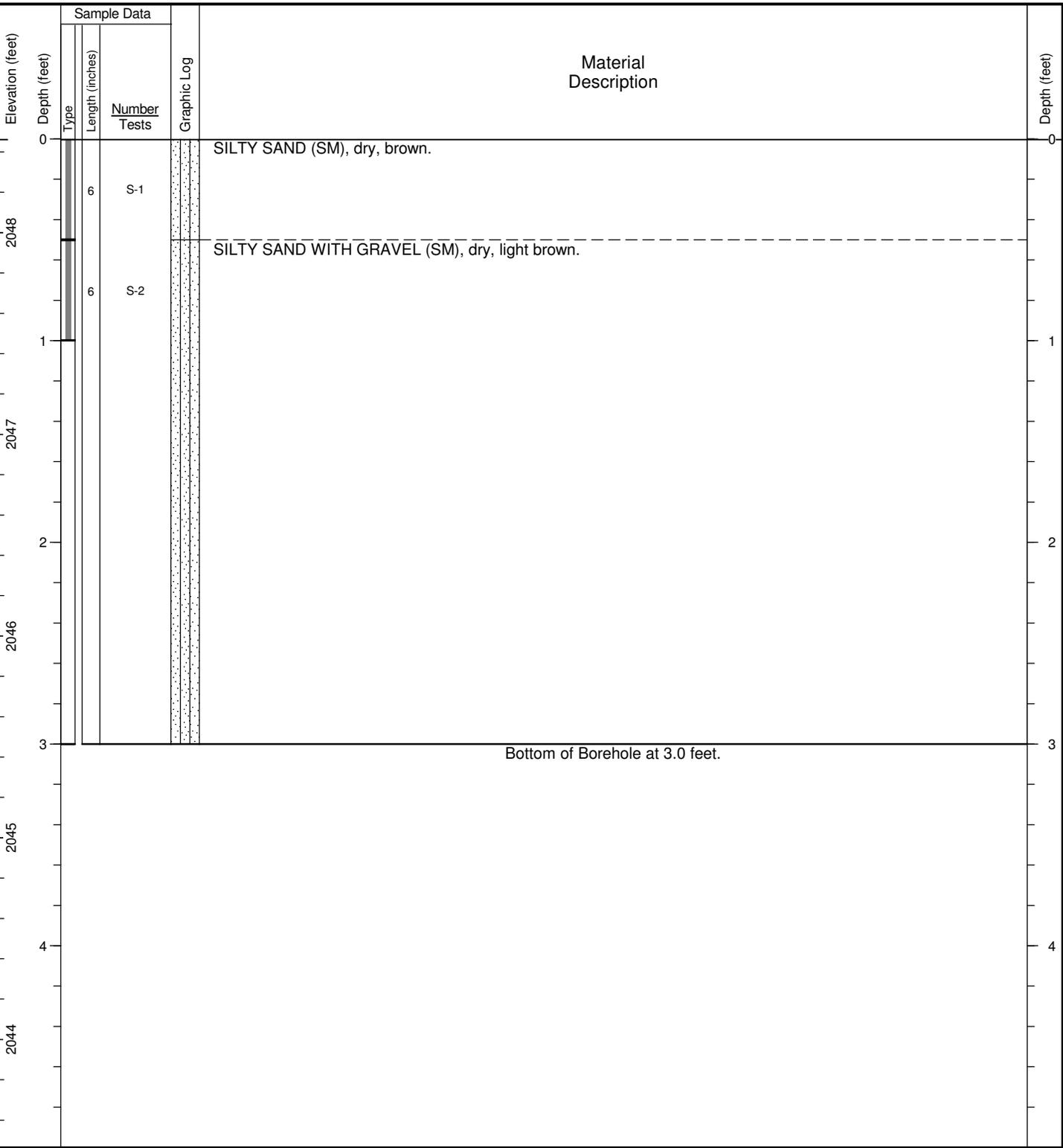


General Notes:

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5. Location and ground surface elevations are approximate.

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Date Started: <u>4/25/19</u>	Date Completed: <u>4/25/19</u>	Contractor/Crew: <u>Cascade Drilling, L.P.</u>
Logged by: <u>W. McDonald</u>	Checked by: _____	Rig Model/Type: <u>GeoProbe® 7822DT / Track-mounted drill rig</u>
Location: <u>Lat: 47.659015 Long: -117.137163 (WA State Plane N, NAD 83, ft.)</u>	Hole Diameter: <u>inches</u>	Casing Diameter: <u>NA</u>
Ground Surface Elevation: <u>2,048.46 feet (NAVD 88)</u>	Total Depth: <u>3 feet</u>	Depth to Groundwater: <u>Not Identified</u>
Comments: _____		

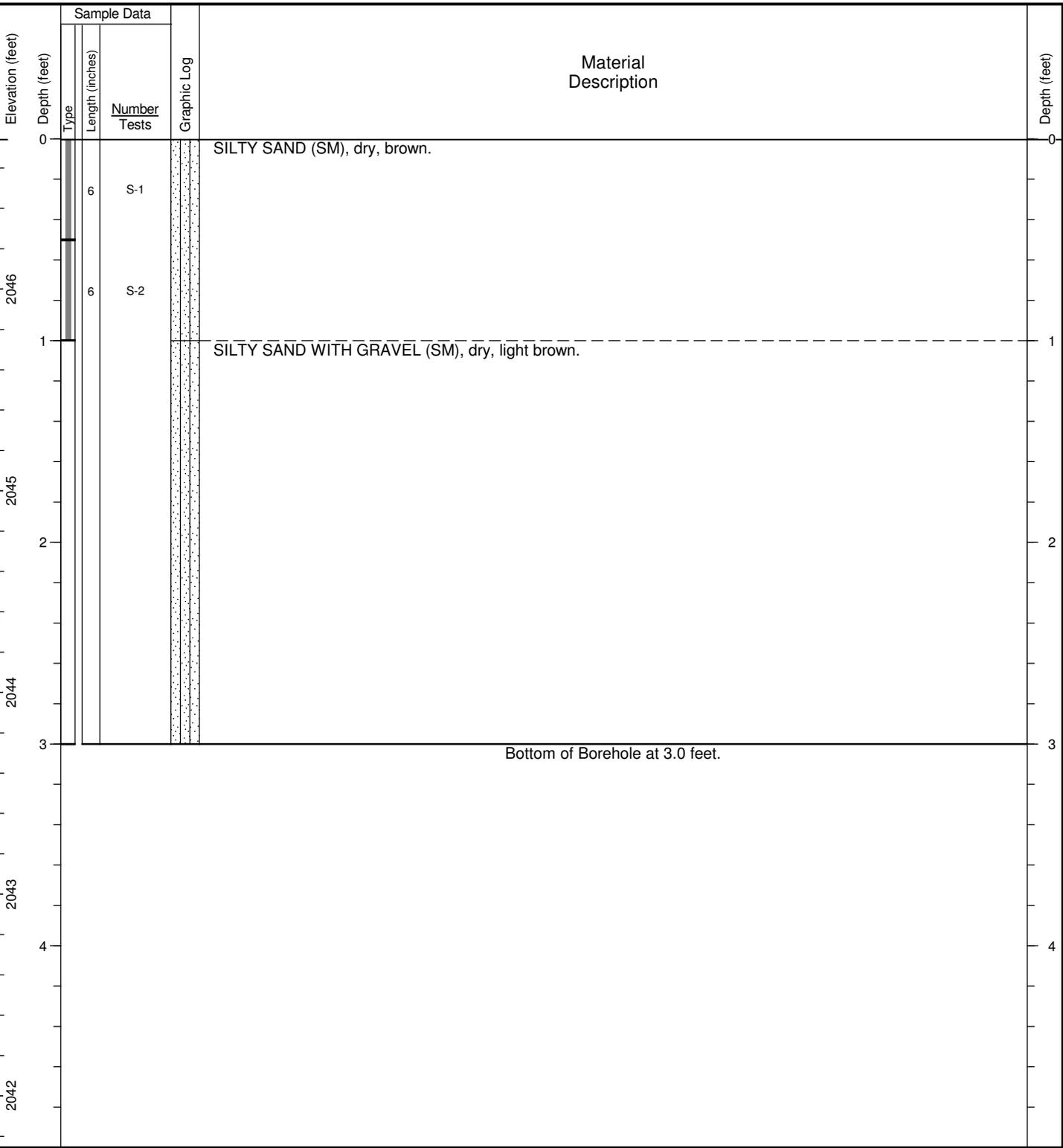


General Notes:

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2. Material stratum lines are interpretive and actual changes may be gradual. Solid lines indicate distinct contacts and dashed lines indicate gradual or approximate contacts.
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5. Location and ground surface elevations are approximate.

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Date Started: <u>4/25/19</u>	Date Completed: <u>4/25/19</u>	Contractor/Crew: <u>Cascade Drilling, L.P.</u>
Logged by: <u>W. McDonald</u>	Checked by: _____	Rig Model/Type: <u>GeoProbe® 7822DT / Track-mounted drill rig</u>
Location: <u>Lat: 47.658948 Long: -117.135646 (WA State Plane N, NAD 83, ft.)</u>	Hole Diameter: <u>inches</u>	Casing Diameter: <u>NA</u>
Ground Surface Elevation: <u>2,046.74 feet (NAVD 88)</u>	Total Depth: <u>3 feet</u>	Depth to Groundwater: <u>Not Identified</u>
Comments: _____		



General Notes:

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4. Groundwater level, if indicated, is at time of drilling/excavation (ATD) or for date specified. Level may vary with time.
5. Location and ground surface elevations are approximate.

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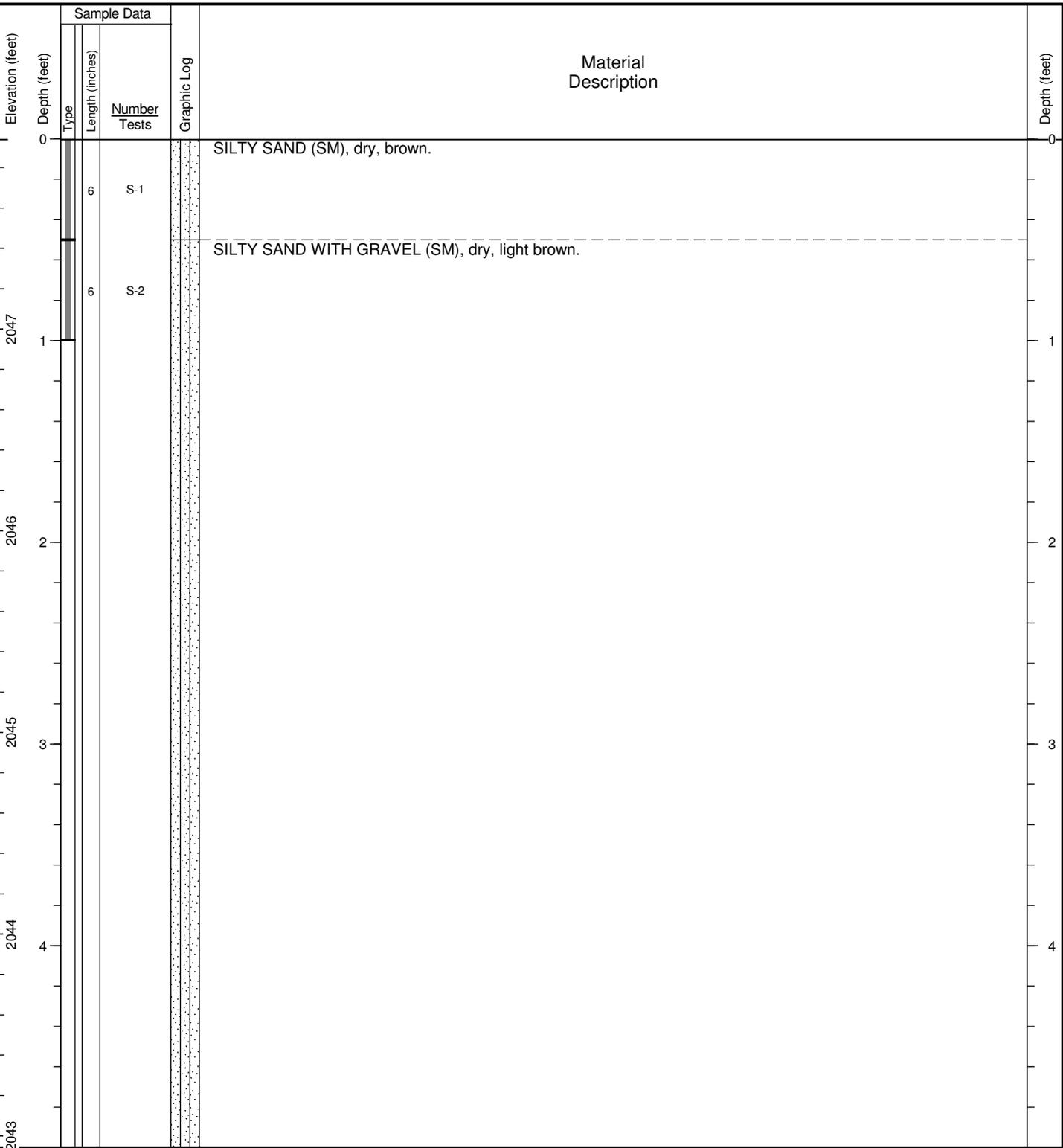
Date Started: 4/25/19 Date Completed: 4/25/19 Contractor/Crew: Cascade Drilling, L.P.
 Logged by: W. McDonald Checked by: _____ Rig Model/Type: GeoProbe® 7822DT / Track-mounted drill rig
 Location: Lat: 47.658854 Long: -117.137414 (WA State Plane N, NAD 83, ft.) Hole Diameter: inches Casing Diameter: NA
 Ground Surface Elevation: 2,046.23 feet (NAVD 88) Total Depth: 3 feet Depth to Groundwater: Not Identified
 Comments: _____

Elevation (feet)	Sample Data			Graphic Log	Material Description	Depth (feet)
	Depth (feet)	Type	Length (inches)			
2046	0				SILTY SAND (SM), dry, brown.	0
			6	S-1		
			6	S-2		
2045	1				SILTY SAND WITH GRAVEL (SM), dry, light brown.	1
2044	2					2
2043	3				Bottom of Borehole at 3.0 feet.	3
2042	4					4

General Notes:
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 4. Groundwater level, if indicated, is at time of drilling/excavation (ATD) or for date specified. Level may vary with time.
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Date Started: <u>4/25/19</u>	Date Completed: <u>4/25/19</u>	Contractor/Crew: <u>Cascade Drilling, L.P.</u>
Logged by: <u>W. McDonald</u>	Checked by: _____	Rig Model/Type: <u>GeoProbe® 7822DT / Track-mounted drill rig</u>
Location: <u>Lat: 47.658970 Long: -117.136793 (WA State Plane N, NAD 83, ft.)</u>		Hole Diameter: <u>inches</u> Casing Diameter: <u>NA</u>
Ground Surface Elevation: <u>2,047.94 feet (NAVD 88)</u>		Total Depth: <u>5 feet</u> Depth to Groundwater: <u>Not Identified</u>
Comments: _____		



General Notes:

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5. Location and ground surface elevations are approximate.

Bottom of Borehole at 5.0 feet.

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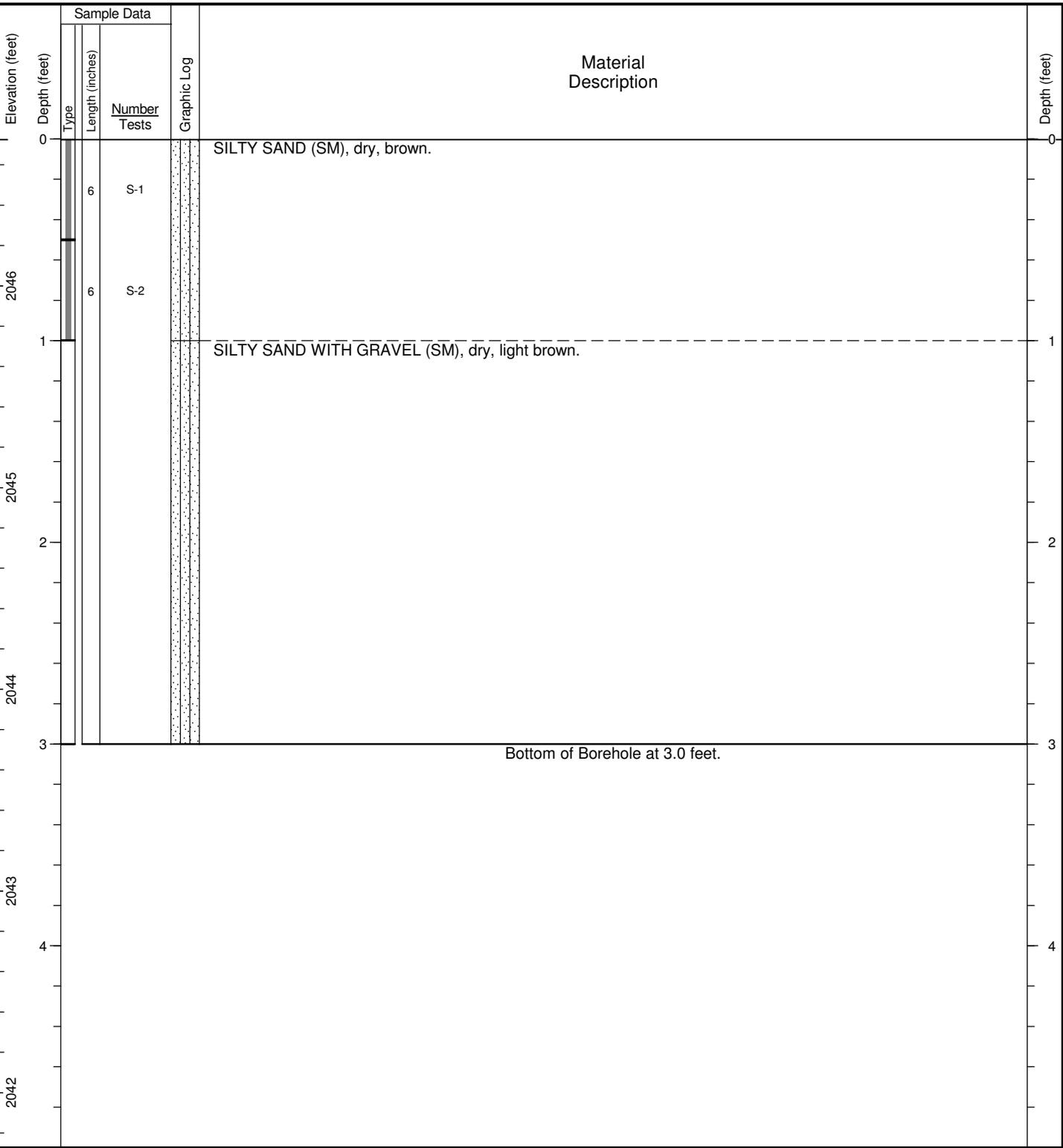
Date Started: 4/25/19 Date Completed: 4/25/19 Contractor/Crew: Cascade Drilling, L.P.
 Logged by: W. McDonald Checked by: _____ Rig Model/Type: GeoProbe® 7822DT / Track-mounted drill rig
 Location: (WA State Plane N, NAD 83, ft.) Hole Diameter: inches Casing Diameter: NA
 Ground Surface Elevation: (NAVD 88) Total Depth: 3 feet Depth to Groundwater: Not Identified
 Comments: _____

Elevation (feet)	Sample Data			Graphic Log	Material Description	Depth (feet)
	Depth (feet)	Type	Length (inches)			
0	0				SILTY SAND (SM), dry, brown.	0
	6		6			
			S-1			
	6		6			
			S-2			
1	1				SILTY SAND WITH GRAVEL (SM), dry, light brown.	1
2						2
3					Bottom of Borehole at 3.0 feet.	3
4						4

General Notes:
 1. Refer to Figure A-1 for explanation of descriptions and symbols.
 2. Material stratum lines are interpretive and actual changes may be gradual. Solid lines indicate distinct contacts and dashed lines indicate gradual or approximate contacts.
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 5. Location and ground surface elevations are approximate.

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Date Started: <u>4/25/19</u>	Date Completed: <u>4/25/19</u>	Contractor/Crew: <u>Cascade Drilling, L.P.</u>
Logged by: <u>W. McDonald</u>	Checked by: _____	Rig Model/Type: <u>GeoProbe® 7822DT / Track-mounted drill rig</u>
Location: <u>Lat: 47.658462 Long: -117.136531 (WA State Plane N, NAD 83, ft.)</u>	Hole Diameter: <u>inches</u>	Casing Diameter: <u>NA</u>
Ground Surface Elevation: <u>2,046.73 feet (NAVD 88)</u>	Total Depth: <u>3 feet</u>	Depth to Groundwater: <u>Not Identified</u>
Comments: _____		

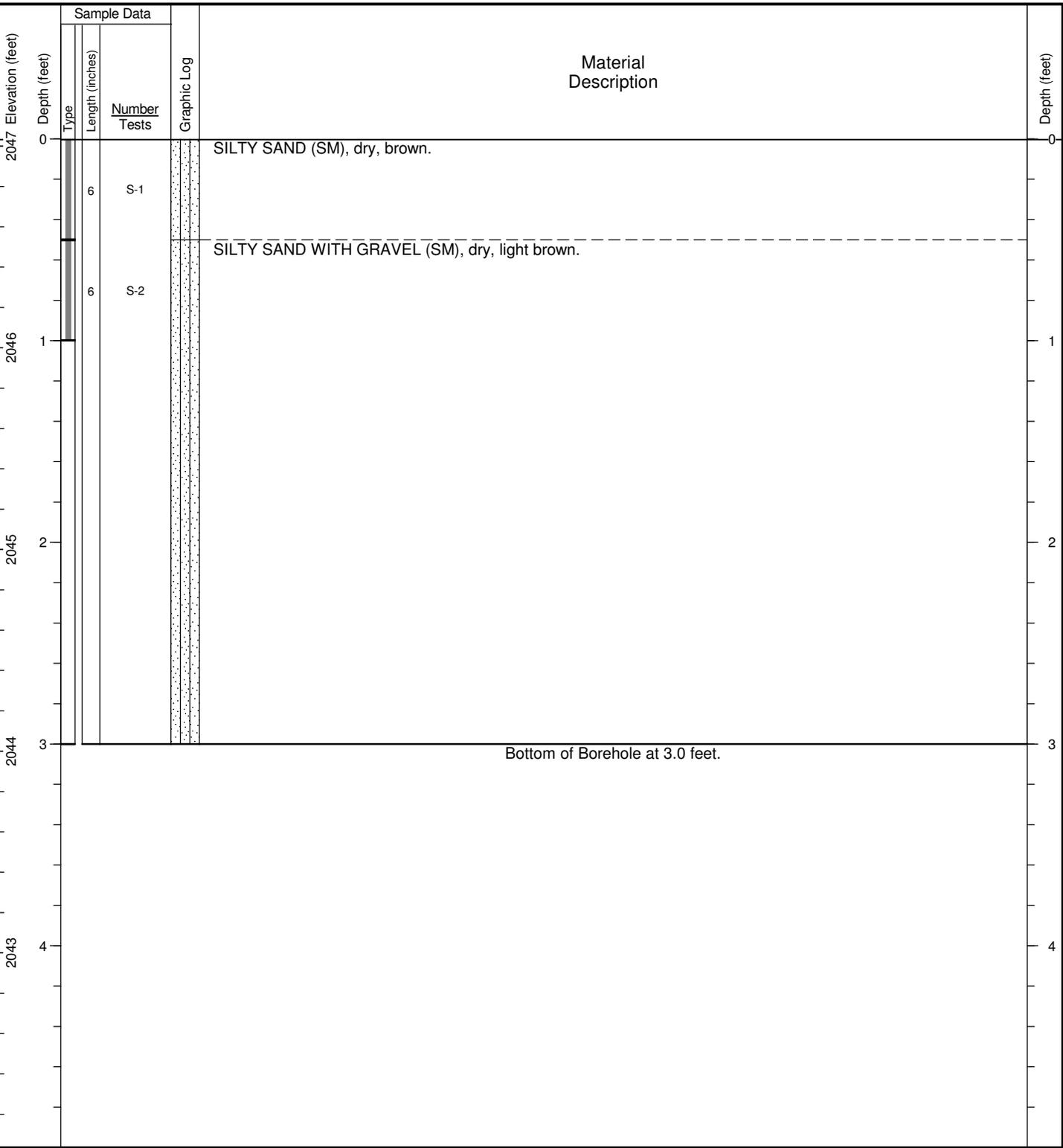


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4. Groundwater level, if indicated, is at time of drilling/excavation (ATD) or for date specified. Level may vary with time.
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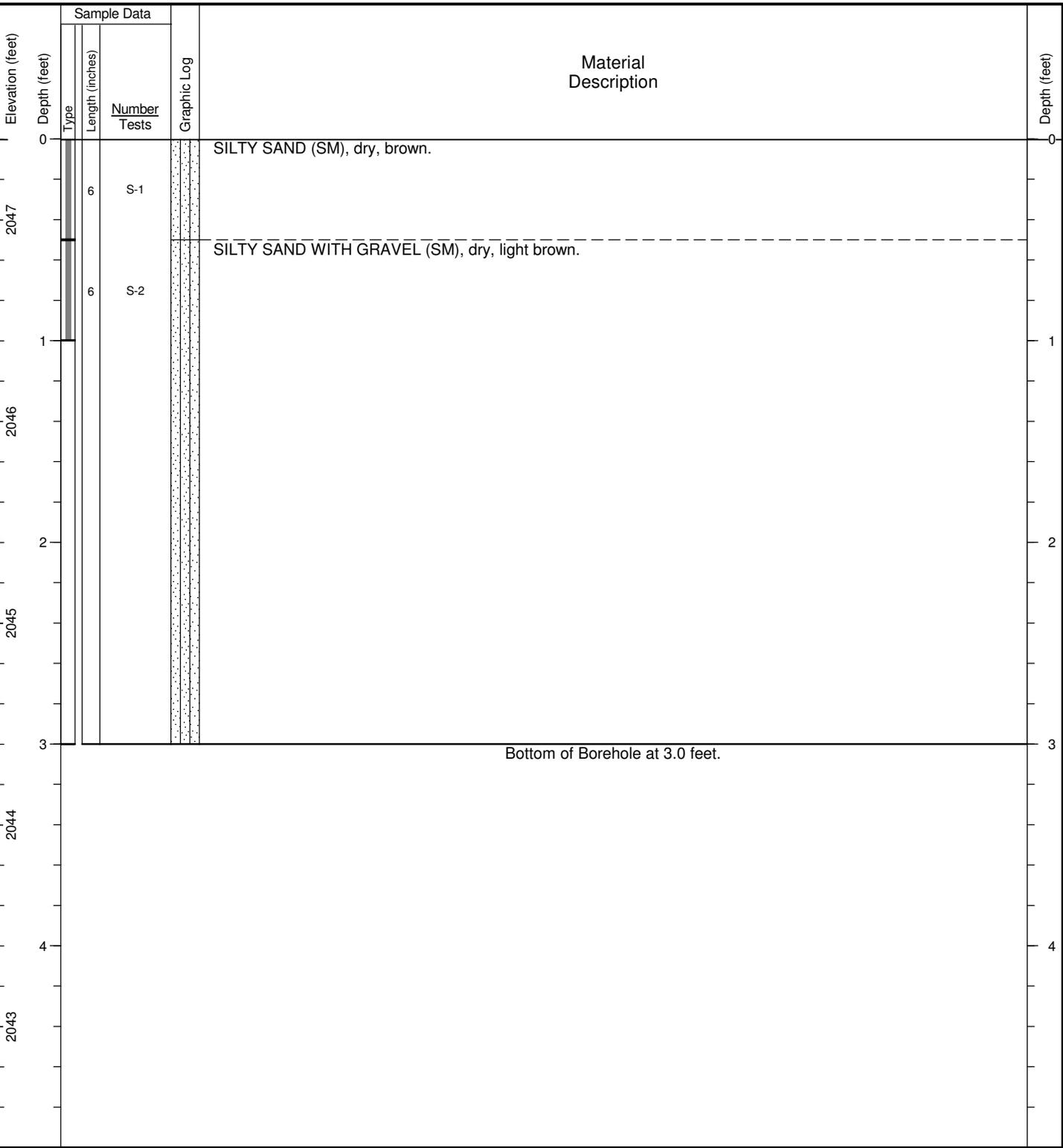
Date Started: 4/25/19 Date Completed: 4/25/19 Contractor/Crew: Cascade Drilling, L.P.
 Logged by: W. McDonald Checked by: _____ Rig Model/Type: GeoProbe® 7822DT / Track-mounted drill rig
 Location: Lat: 47.658174 Long: -117.136923 (WA State Plane N, NAD 83, ft.) Hole Diameter: inches Casing Diameter: NA
 Ground Surface Elevation: 2,047.04 feet (NAVD 88) Total Depth: 3 feet Depth to Groundwater: Not Identified
 Comments: _____



General Notes:
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 4. Groundwater level, if indicated, is at time of drilling/excavation (ATD) or for date specified. Level may vary with time.
 5. Location and ground surface elevations are approximate.

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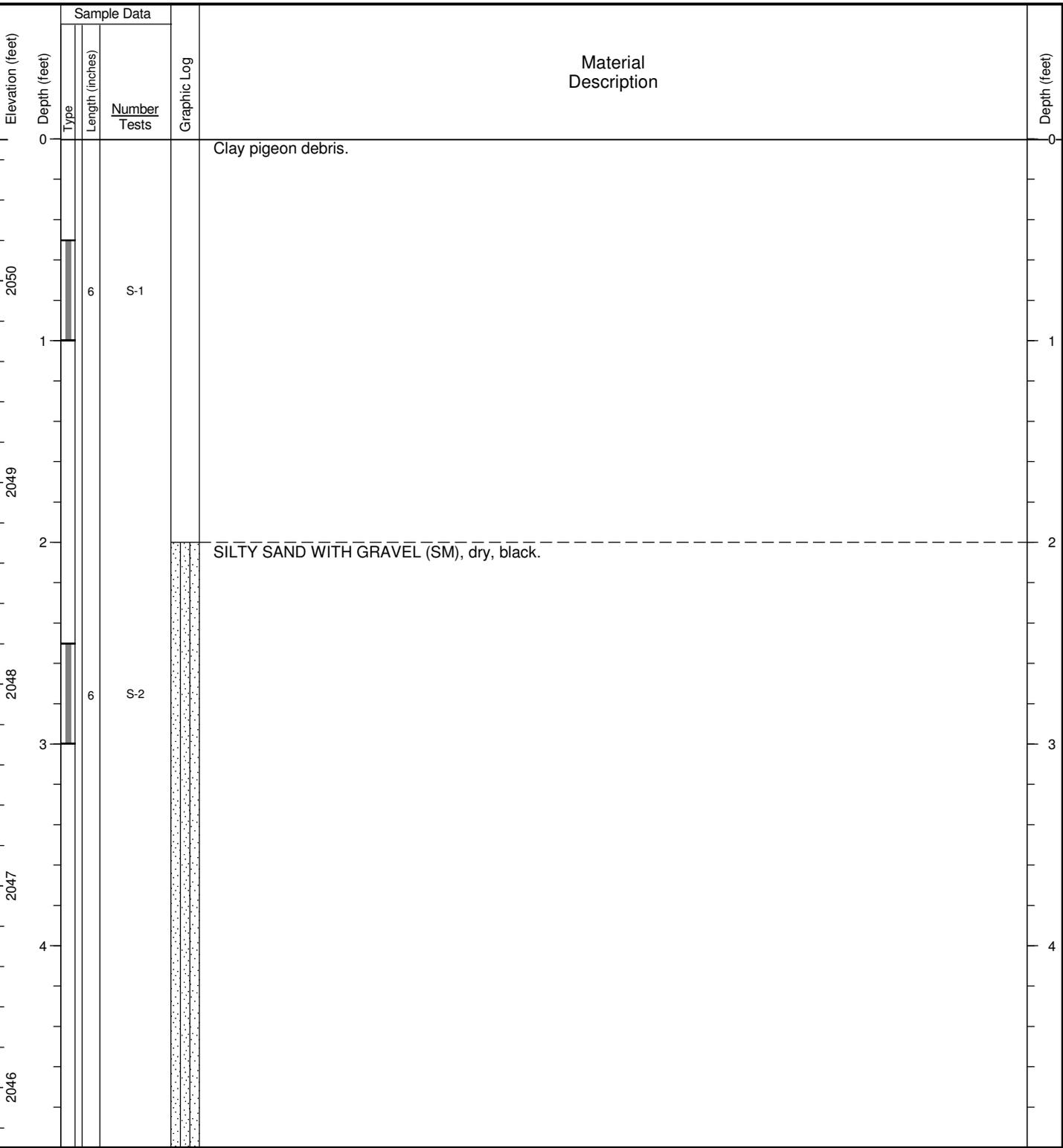
Date Started: 4/25/19 Date Completed: 4/25/19 Contractor/Crew: Cascade Drilling, L.P.
 Logged by: W. McDonald Checked by: _____ Rig Model/Type: GeoProbe® 7822DT / Track-mounted drill rig
 Location: Lat: 47.658104 Long: -117.137644 (WA State Plane N, NAD 83, ft.) Hole Diameter: inches Casing Diameter: NA
 Ground Surface Elevation: 2,047.40 feet (NAVD 88) Total Depth: 3 feet Depth to Groundwater: Not Identified
 Comments: _____



General Notes:
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 4. Groundwater level, if indicated, is at time of drilling/excavation (ATD) or for date specified. Level may vary with time.
 5. Location and ground surface elevations are approximate.

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Date Started: <u>4/25/19</u>	Date Completed: <u>4/25/19</u>	Contractor/Crew: <u>Cascade Drilling, L.P.</u>
Logged by: <u>W. McDonald</u>	Checked by: _____	Rig Model/Type: <u>GeoProbe® 7822DT / Track-mounted drill rig</u>
Location: <u>Lat: 47.657937 Long: -117.136656 (WA State Plane N, NAD 83, ft.)</u>	Hole Diameter: <u>inches</u>	Casing Diameter: <u>NA</u>
Ground Surface Elevation: <u>2,050.70 feet (NAVD 88)</u>	Total Depth: <u>5 feet</u>	Depth to Groundwater: <u>Not Identified</u>
Comments: _____		



General Notes:

1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Material stratum lines are interpretive and actual changes may be gradual. Solid lines indicate distinct contacts and dashed lines indicate gradual or approximate contacts.
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.
5. Location and ground surface elevations are approximate.

Bottom of Borehole at 5.0 feet.

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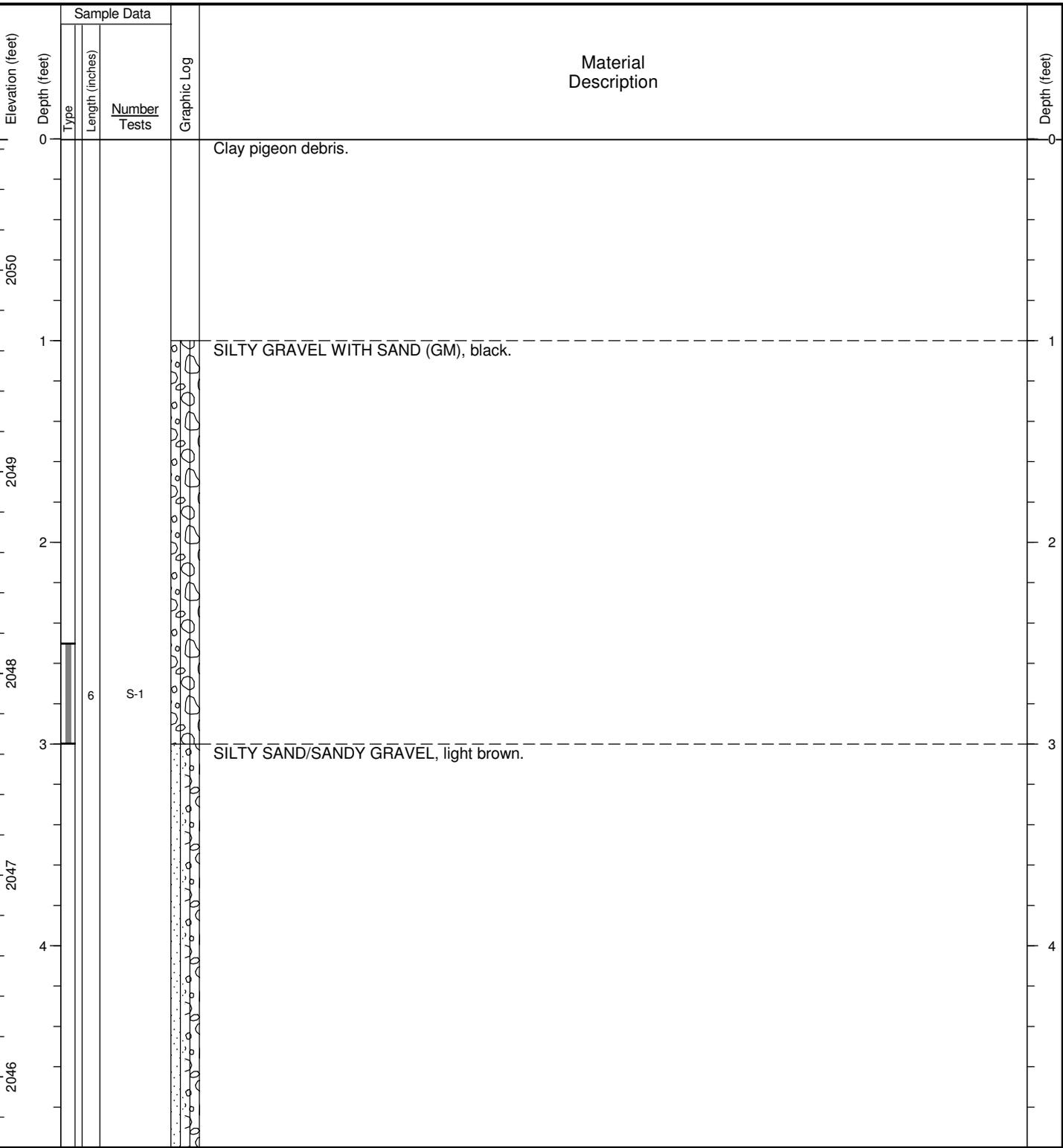
Date Started: 4/25/19 Date Completed: 4/25/19 Contractor/Crew: Cascade Drilling, L.P.
 Logged by: W. McDonald Checked by: _____ Rig Model/Type: GeoProbe® 7822DT / Track-mounted drill rig
 Location: Lat: 47.657932 Long: -117.136860 (WA State Plane N, NAD 83, ft.) Hole Diameter: inches Casing Diameter: NA
 Ground Surface Elevation: 2,050.27 feet (NAVD 88) Total Depth: 5 feet Depth to Groundwater: Not Identified
 Comments: _____

Elevation (feet)	Depth (feet)	Sample Data			Graphic Log	Material Description	Depth (feet)
		Type	Length (inches)	Number Tests			
2050	0					0	
2049	1					POORLY GRADED GRAVEL WITH SAND (GP), brown.	1
2048	2					2	
2047	3	6		S-1		3	
2046	4					4	

General Notes: Bottom of Borehole at 5.0 feet.
 1. Refer to Figure A-1 for explanation of descriptions and symbols.
 2. Material stratum lines are interpretive and actual changes may be gradual. Solid lines indicate distinct contacts and dashed lines indicate gradual or approximate contacts.
 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.
 5. Location and ground surface elevations are approximate.

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Date Started: <u>4/25/19</u>	Date Completed: <u>4/25/19</u>	Contractor/Crew: <u>Cascade Drilling, L.P.</u>
Logged by: <u>W. McDonald</u>	Checked by: _____	Rig Model/Type: <u>GeoProbe® 7822DT / Track-mounted drill rig</u>
Location: <u>Lat: 47.657782 Long: -117.136736 (WA State Plane N, NAD 83, ft.)</u>	Hole Diameter: <u>inches</u>	Casing Diameter: <u>NA</u>
Ground Surface Elevation: <u>2,050.65 feet (NAVD 88)</u>	Total Depth: <u>5 feet</u>	Depth to Groundwater: <u>Not Identified</u>
Comments: _____		



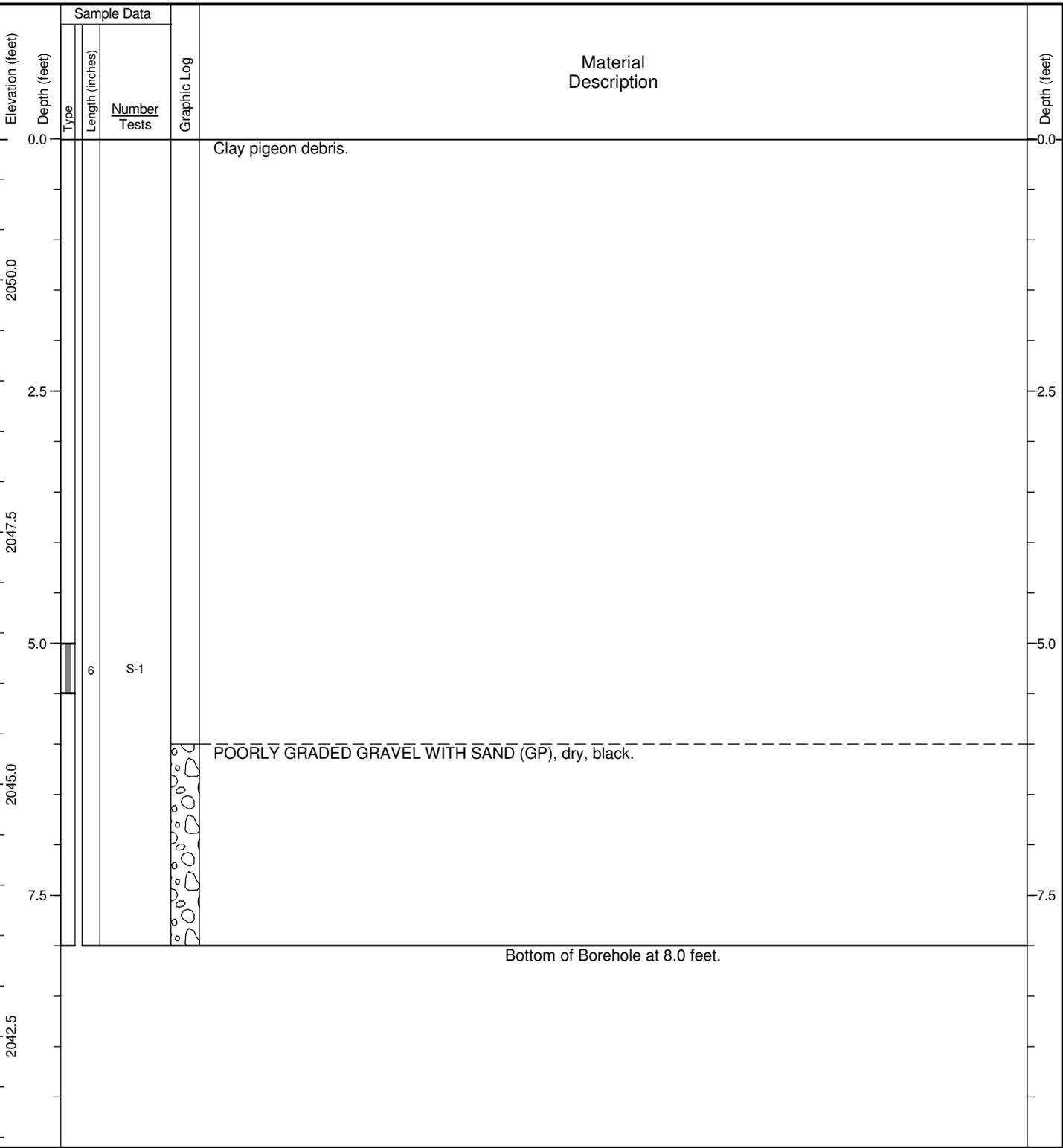
General Notes:

1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Material stratum lines are interpretive and actual changes may be gradual. Solid lines indicate distinct contacts and dashed lines indicate gradual or approximate contacts.
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.
5. Location and ground surface elevations are approximate.

Bottom of Borehole at 5.0 feet.

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Date Started: <u>4/25/19</u>	Date Completed: <u>4/25/19</u>	Contractor/Crew: <u>Cascade Drilling, L.P.</u>
Logged by: <u>W. McDonald</u>	Checked by: _____	Rig Model/Type: <u>GeoProbe® 7822DT / Track-mounted drill rig</u>
Location: <u>Lat: 47.657813 Long: -117.137041 (WA State Plane N, NAD 83, ft.)</u>		Hole Diameter: <u>inches</u> Casing Diameter: <u>NA</u>
Ground Surface Elevation: <u>2,051.40 feet (NAVD 88)</u>		Total Depth: <u>8 feet</u> Depth to Groundwater: <u>Not Identified</u>
Comments: _____		



General Notes:

1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Material stratum lines are interpretive and actual changes may be gradual. Solid lines indicate distinct contacts and dashed lines indicate gradual or approximate contacts.
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5. Location and ground surface elevations are approximate.

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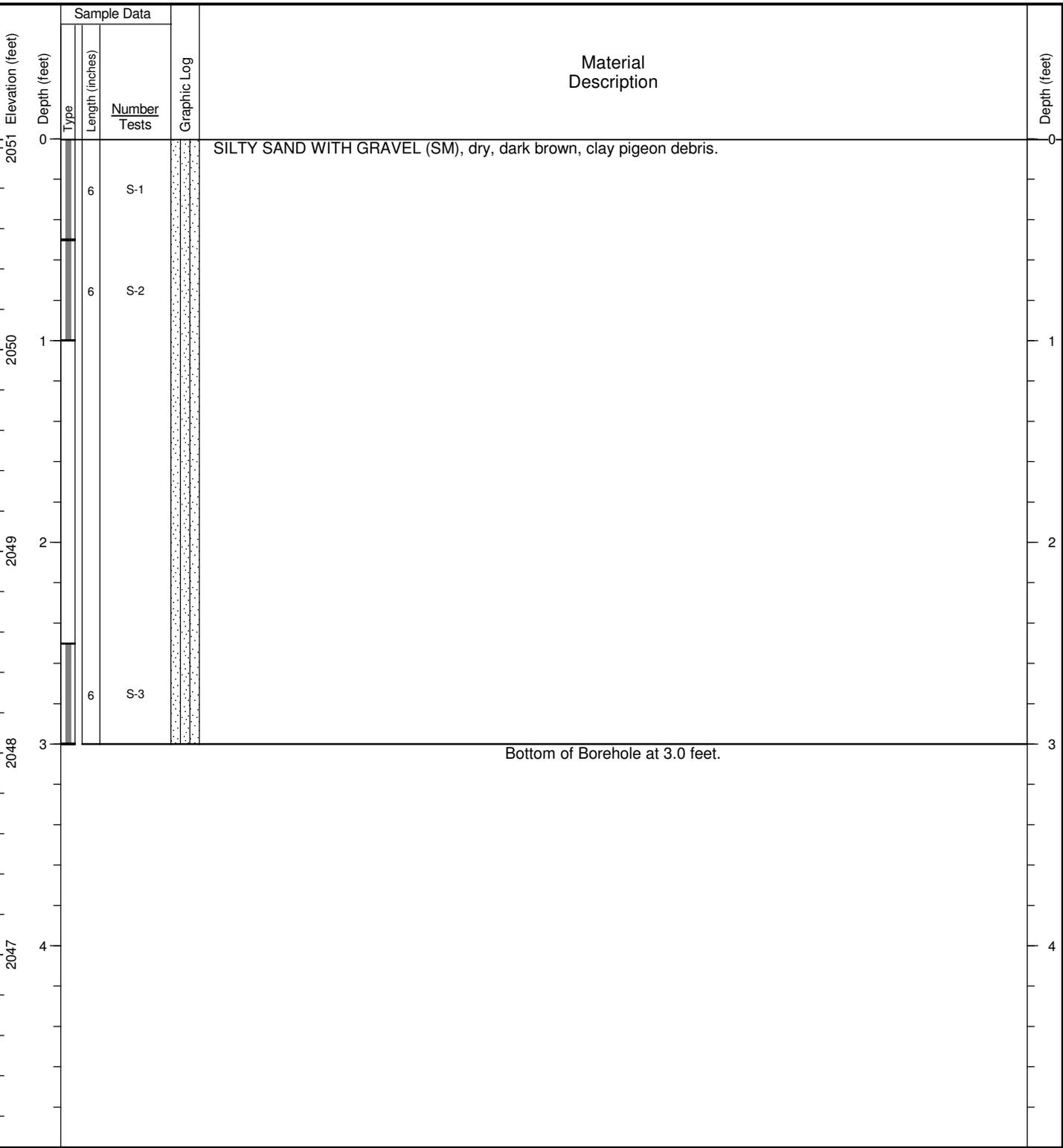
Date Started: 4/25/19 Date Completed: 4/25/19 Contractor/Crew: Cascade Drilling, L.P.
 Logged by: W. McDonald Checked by: _____ Rig Model/Type: GeoProbe® 7822DT / Track-mounted drill rig
 Location: Lat: 47.657740 Long: -117.137005 (WA State Plane N, NAD 83, ft.) Hole Diameter: inches Casing Diameter: NA
 Ground Surface Elevation: 2,050.83 feet (NAVD 88) Total Depth: 5 feet Depth to Groundwater: Not Identified
 Comments: _____

Elevation (feet)	Sample Data			Graphic Log	Material Description	Depth (feet)
	Depth (feet)	Type	Length (inches)			
0	0				Clay pigeon debris.	0
2050	1					1
2049	2				POORLY GRADED GRAVEL WITH SAND (GP), dry, black.	2
2048	3	6		S-1	Becomes light brown.	3
		6		S-2		
2047	4					4
2046						

General Notes: Bottom of Borehole at 5.0 feet.
 1. Refer to Figure A-1 for explanation of descriptions and symbols.
 2. Material stratum lines are interpretive and actual changes may be gradual. Solid lines indicate distinct contacts and dashed lines indicate gradual or approximate contacts.
 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.
 5. Location and ground surface elevations are approximate.

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Date Started: <u>4/25/19</u>	Date Completed: <u>4/25/19</u>	Contractor/Crew: <u>Cascade Drilling, L.P.</u>
Logged by: <u>W. McDonald</u>	Checked by: _____	Rig Model/Type: <u>GeoProbe® 7822DT / Track-mounted drill rig</u>
Location: <u>Lat: 47.657602 Long: -117.137425 (WA State Plane N, NAD 83, ft.)</u>	Hole Diameter: <u>inches</u>	Casing Diameter: <u>NA</u>
Ground Surface Elevation: <u>2,051.04 feet (NAVD 88)</u>	Total Depth: <u>3 feet</u>	Depth to Groundwater: <u>Not Identified</u>
Comments: _____		

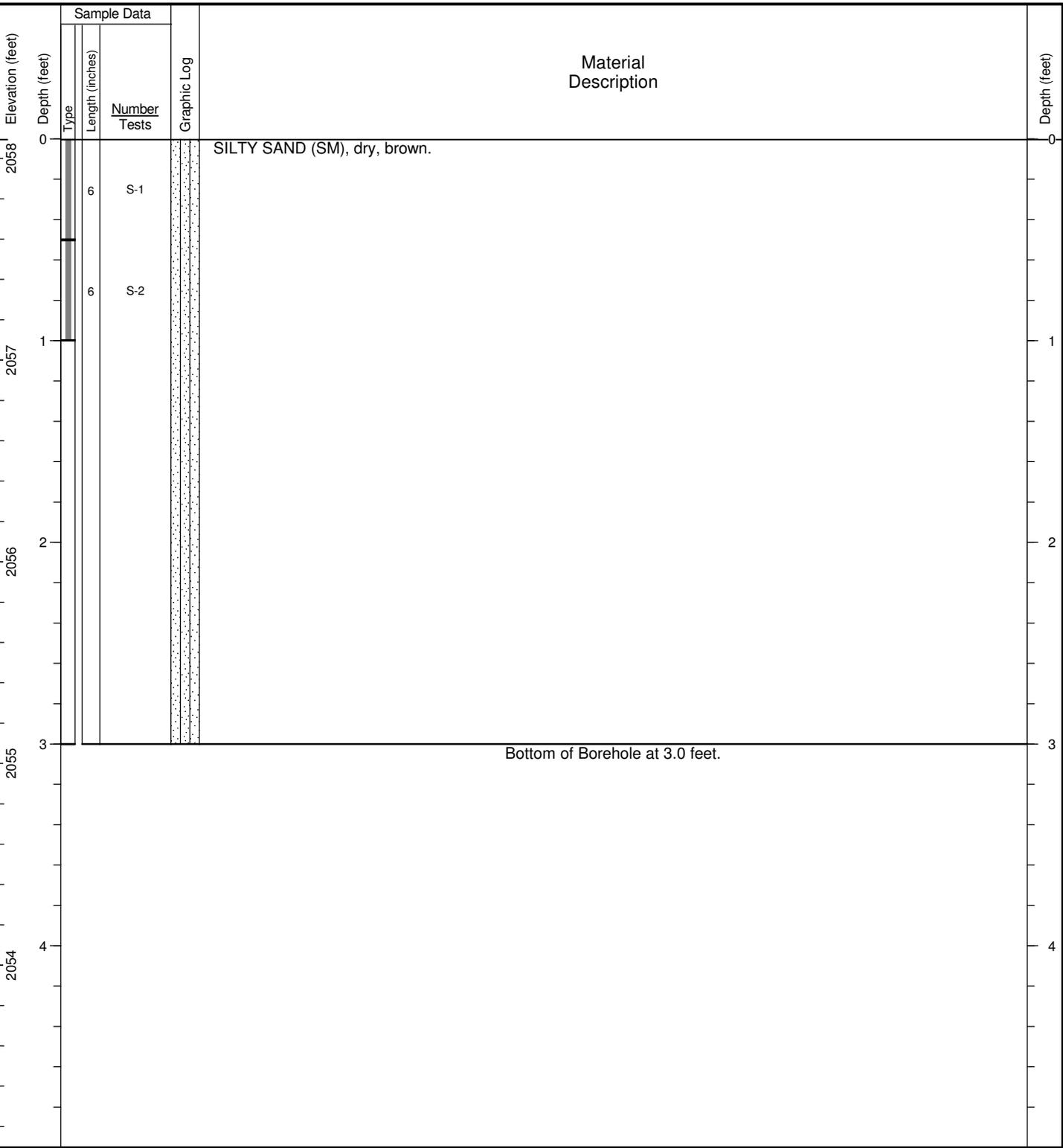


General Notes:

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4. Groundwater level, if indicated, is at time of drilling/excavation (ATD) or for date specified. Level may vary with time.
5. Location and ground surface elevations are approximate.

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Date Started: <u>4/25/19</u>	Date Completed: <u>4/25/19</u>	Contractor/Crew: <u>Cascade Drilling, L.P.</u>
Logged by: <u>W. McDonald</u>	Checked by: _____	Rig Model/Type: <u>GeoProbe® 7822DT / Track-mounted drill rig</u>
Location: <u>Lat: 47.657586 Long: -117.135971 (WA State Plane N, NAD 83, ft.)</u>	Hole Diameter: <u>inches</u>	Casing Diameter: <u>NA</u>
Ground Surface Elevation: <u>2,058.10 feet (NAVD 88)</u>	Total Depth: <u>3 feet</u>	Depth to Groundwater: <u>Not Identified</u>
Comments: _____		

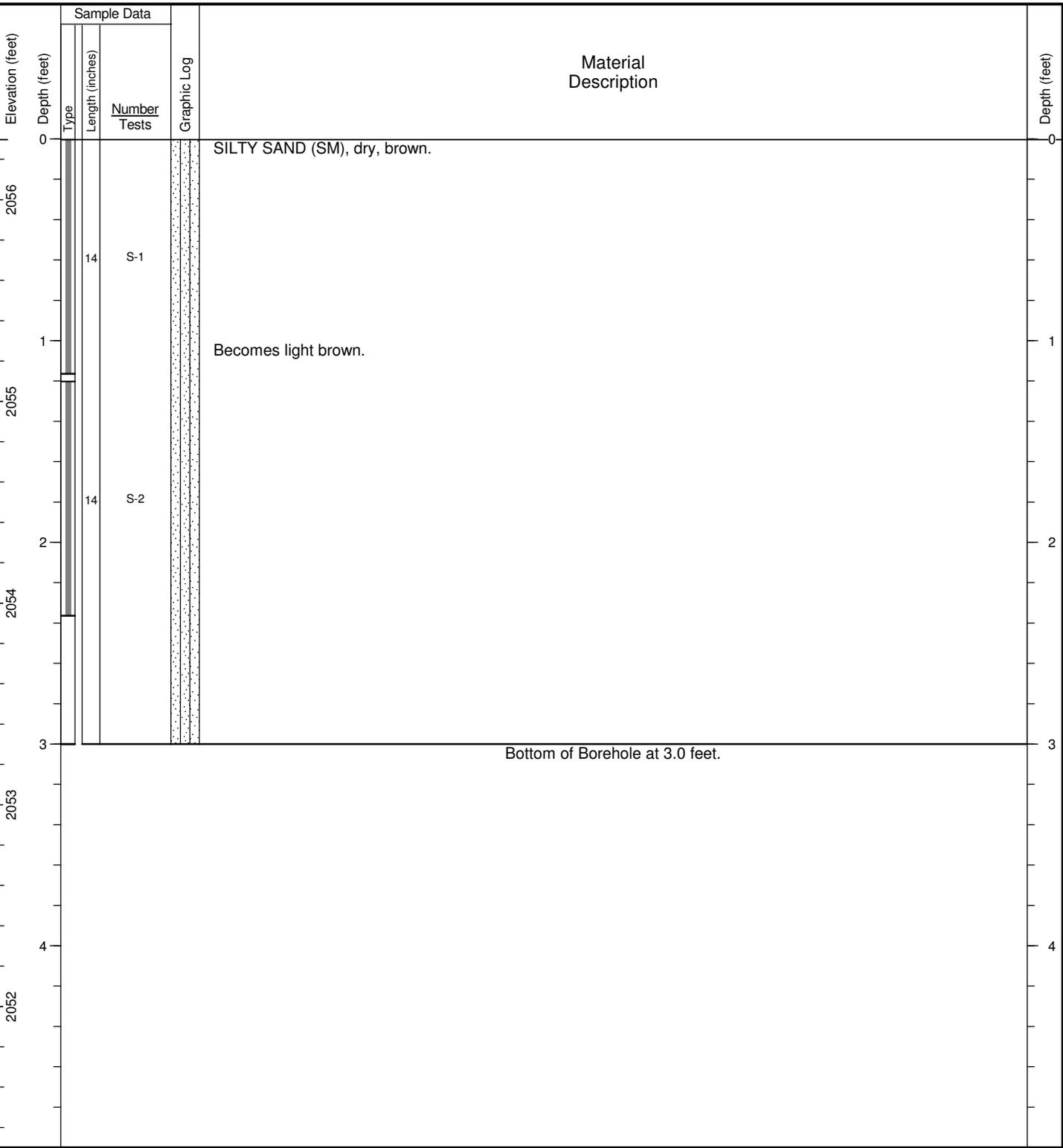


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4. Groundwater level, if indicated, is at time of drilling/excavation (ATD) or for date specified. Level may vary with time.
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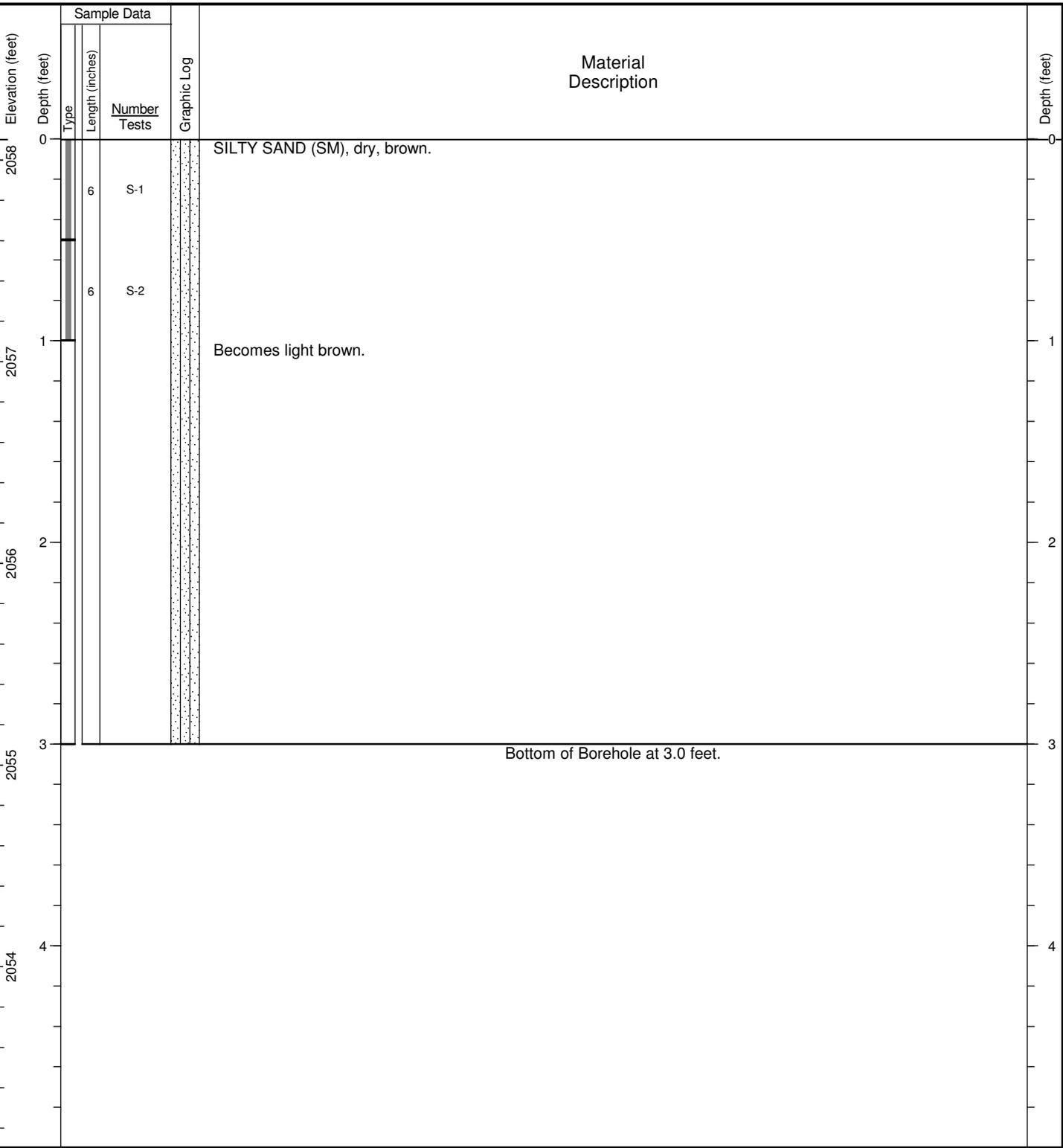
Date Started: 4/25/19 Date Completed: 4/25/19 Contractor/Crew: Cascade Drilling, L.P.
 Logged by: W. McDonald Checked by: _____ Rig Model/Type: GeoProbe® 7822DT / Track-mounted drill rig
 Location: Lat: 47.657312 Long: -117.137023 (WA State Plane N, NAD 83, ft.) Hole Diameter: inches Casing Diameter: NA
 Ground Surface Elevation: 2,056.30 feet (NAVD 88) Total Depth: 3 feet Depth to Groundwater: Not Identified
 Comments: _____



General Notes:
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Date Started: <u>4/25/19</u>	Date Completed: <u>4/25/19</u>	Contractor/Crew: <u>Cascade Drilling, L.P.</u>
Logged by: <u>W. McDonald</u>	Checked by: _____	Rig Model/Type: <u>GeoProbe® 7822DT / Track-mounted drill rig</u>
Location: <u>Lat: 47.657292 Long: -117.136778 (WA State Plane N, NAD 83, ft.)</u>	Hole Diameter: <u>inches</u>	Casing Diameter: <u>NA</u>
Ground Surface Elevation: <u>2,058.10 feet (NAVD 88)</u>	Total Depth: <u>3 feet</u>	Depth to Groundwater: <u>Not Identified</u>
Comments: _____		

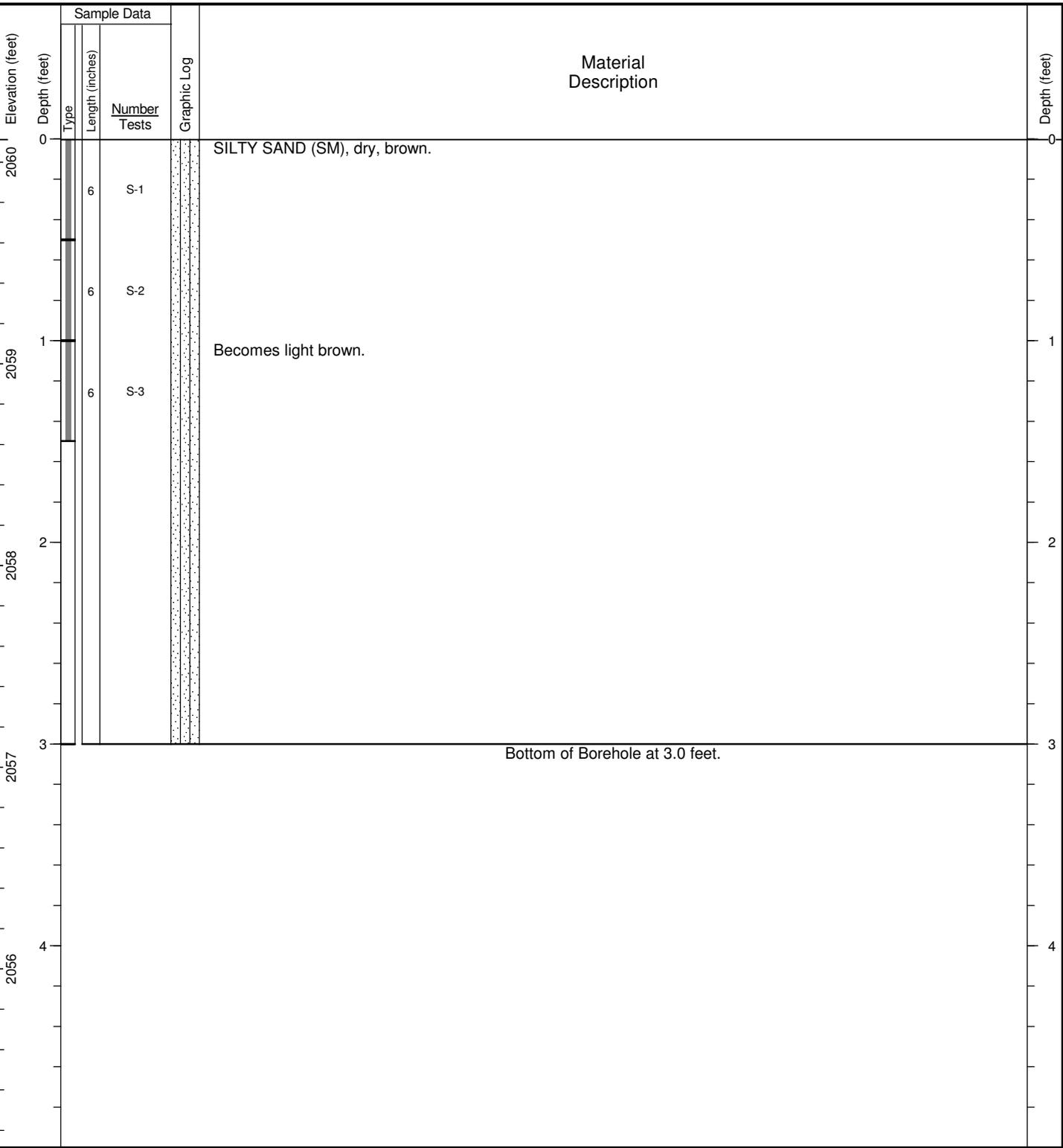


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Date Started: <u>4/25/19</u>	Date Completed: <u>4/25/19</u>	Contractor/Crew: <u>Cascade Drilling, L.P.</u>
Logged by: <u>W. McDonald</u>	Checked by: _____	Rig Model/Type: <u>GeoProbe® 7822DT / Track-mounted drill rig</u>
Location: <u>Lat: 47.657316 Long: -117.136458 (WA State Plane N, NAD 83, ft.)</u>	Hole Diameter: <u>inches</u>	Casing Diameter: <u>NA</u>
Ground Surface Elevation: <u>2,060.12 feet (NAVD 88)</u>	Total Depth: <u>3 feet</u>	Depth to Groundwater: <u>Not Identified</u>
Comments: _____		

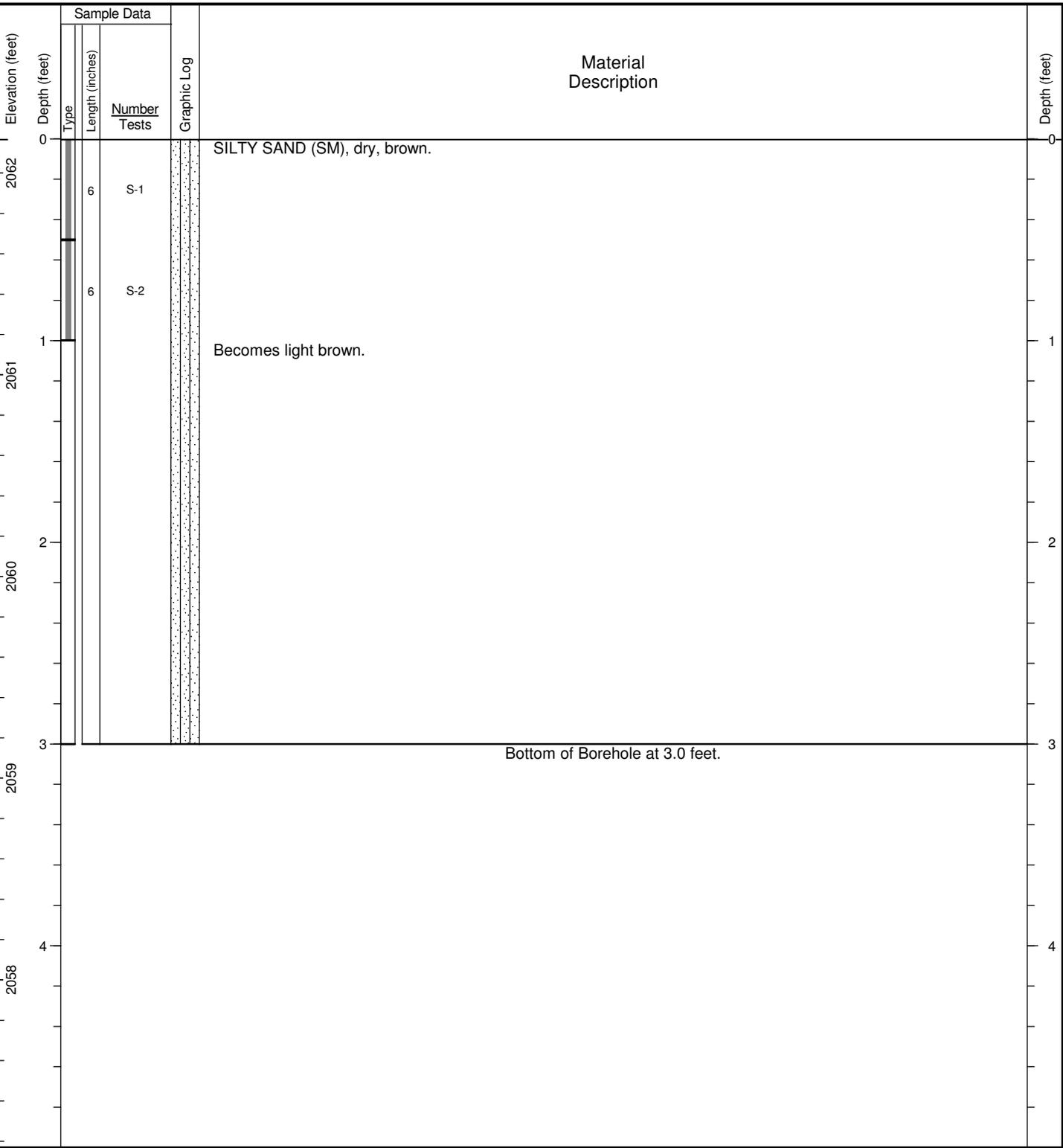


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Date Started: <u>4/25/19</u>	Date Completed: <u>4/25/19</u>	Contractor/Crew: <u>Cascade Drilling, L.P.</u>
Logged by: <u>W. McDonald</u>	Checked by: _____	Rig Model/Type: <u>GeoProbe® 7822DT / Track-mounted drill rig</u>
Location: <u>Lat: 47.657278 Long: -117.135997 (WA State Plane N, NAD 83, ft.)</u>	Hole Diameter: <u>inches</u>	Casing Diameter: <u>NA</u>
Ground Surface Elevation: <u>2,062.17 feet (NAVD 88)</u>	Total Depth: <u>3 feet</u>	Depth to Groundwater: <u>Not Identified</u>
Comments: _____		

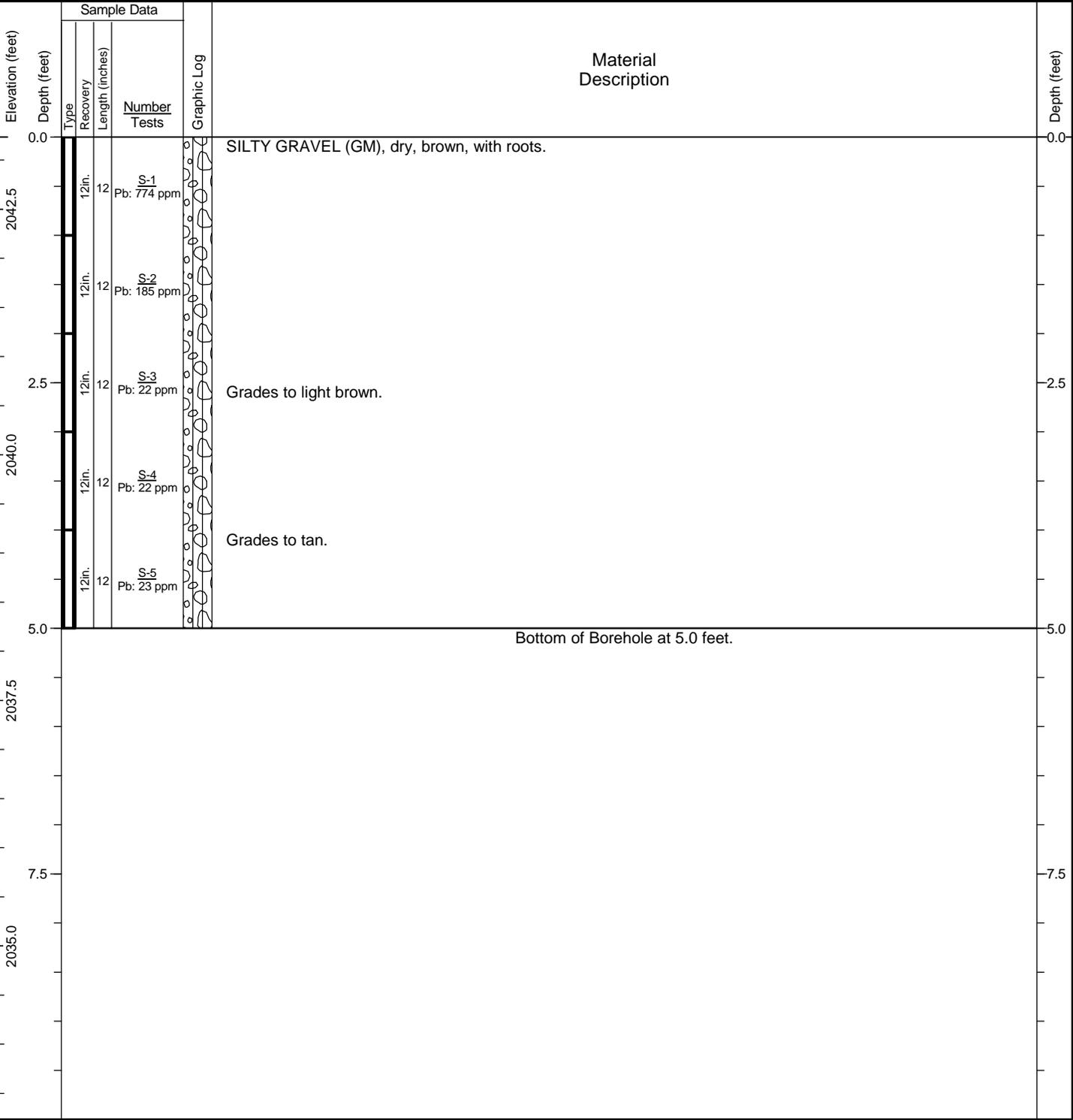


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Date Started: <u>10/6/20</u>	Date Completed: <u>10/6/20</u>	Drilling Contractor/Crew: <u>Anderson Environmental Contracting, LLC</u>
Logged by: <u>K. Huddleston</u>	Checked by: <u>W. McDonald</u>	Drilling Method: <u>Sonic</u>
Location: <u>Lat: 47.660530 Long: -117.142187 (WA State Plane N, NAD 83, ft.)</u>		Rig Model/Type: <u>TSi 150CC / Track-mounted drill rig</u>
Ground Surface Elevation: <u>2,043.23 feet (NAVD 88)</u>		Hammer Type: _____
Comments: _____		Hammer Weight (pounds): _____ Hammer Drop Height (inches): _____
_____		Measured Hammer Efficiency (%): <u>Not Available</u>
_____		Hole Diameter: <u>6 inches</u> Casing Diameter: <u>NA</u>
_____		Total Depth: <u>5 feet</u> Depth to Groundwater: <u>Not Identified</u>

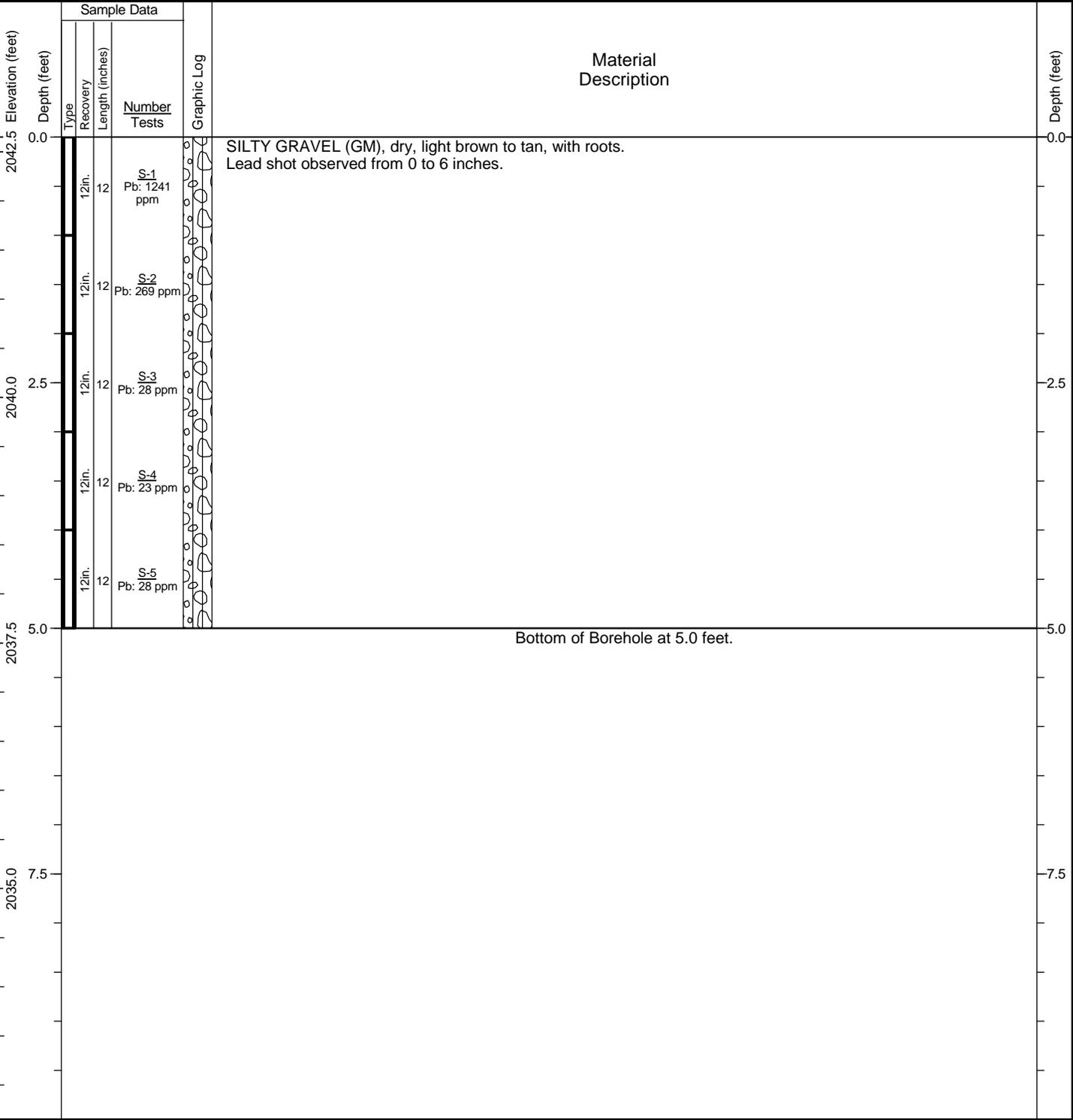


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Date Started: <u>10/6/20</u>	Date Completed: <u>10/6/20</u>	Drilling Contractor/Crew: <u>Anderson Environmental Contracting, LLC</u>
Logged by: <u>K. Huddleston</u>	Checked by: <u>W. McDonald</u>	Drilling Method: <u>Sonic</u>
Location: <u>Lat: 47.660690 Long: -117.141214 (WA State Plane N, NAD 83, ft.)</u>		Rig Model/Type: <u>TSi 150CC / Track-mounted drill rig</u>
Ground Surface Elevation: <u>2,042.65 feet (NAVD 88)</u>		Hammer Type: _____
Comments: _____		Hammer Weight (pounds): _____ Hammer Drop Height (inches): _____
_____		Measured Hammer Efficiency (%): <u>Not Available</u>
_____		Hole Diameter: <u>6 inches</u> Casing Diameter: <u>NA</u>
_____		Total Depth: <u>5 feet</u> Depth to Groundwater: <u>Not Identified</u>

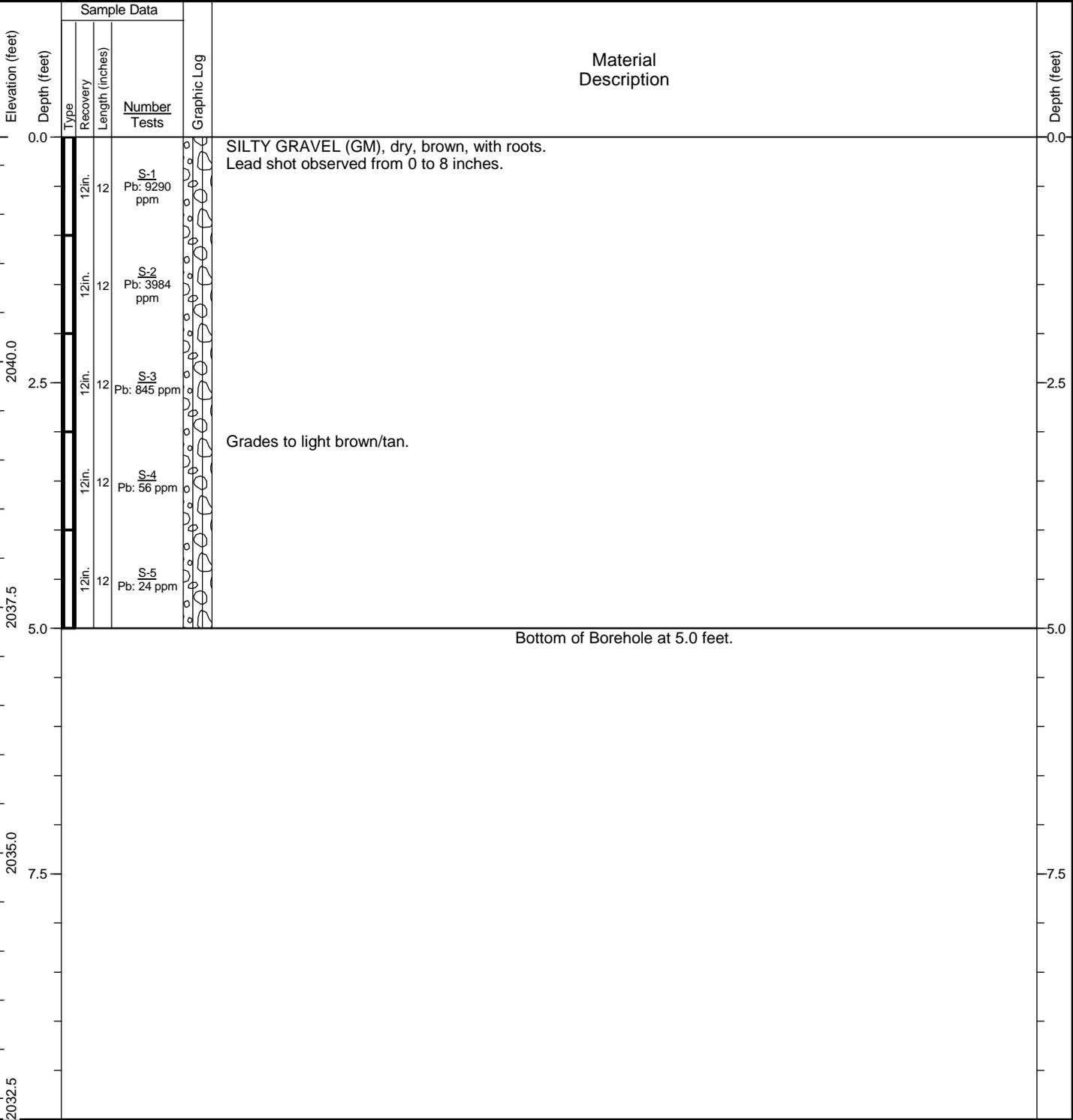


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Date Started: <u>10/6/20</u>	Date Completed: <u>10/6/20</u>	Drilling Contractor/Crew: <u>Anderson Environmental Contracting, LLC</u>
Logged by: <u>K. Huddleston</u>	Checked by: <u>W. McDonald</u>	Drilling Method: <u>Sonic</u>
Location: <u>Lat: 47.660741 Long: -117.140020 (WA State Plane N, NAD 83, ft.)</u>		Rig Model/Type: <u>TSi 150CC / Track-mounted drill rig</u>
Ground Surface Elevation: <u>2,042.29 feet (NAVD 88)</u>		Hammer Type: _____
Comments: _____		Hammer Weight (pounds): _____ Hammer Drop Height (inches): _____
_____		Measured Hammer Efficiency (%): <u>Not Available</u>
_____		Hole Diameter: <u>6 inches</u> Casing Diameter: <u>NA</u>
_____		Total Depth: <u>5 feet</u> Depth to Groundwater: <u>Not Identified</u>

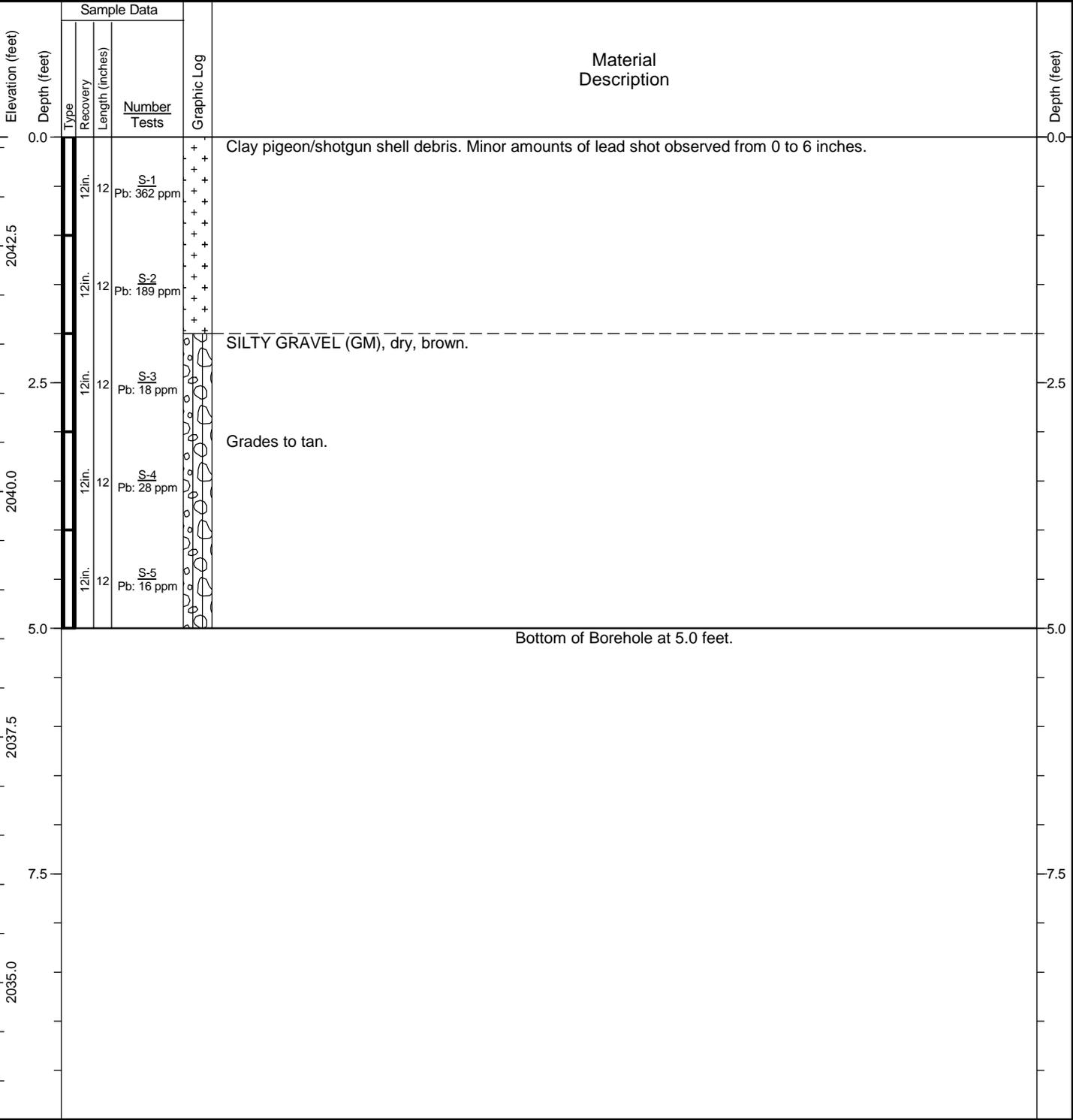


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Date Started: <u>10/6/20</u>	Date Completed: <u>10/6/20</u>	Drilling Contractor/Crew: <u>Anderson Environmental Contracting, LLC</u>
Logged by: <u>K. Huddleston</u>	Checked by: <u>W. McDonald</u>	Drilling Method: <u>Sonic</u>
Location: <u>Lat: 47.660046 Long: -117.141450 (WA State Plane N, NAD 83, ft.)</u>		Rig Model/Type: <u>TSi 150CC / Track-mounted drill rig</u>
Ground Surface Elevation: <u>2,043.61 feet (NAVD 88)</u>		Hammer Type: _____
Comments: _____		Hammer Weight (pounds): _____ Hammer Drop Height (inches): _____
_____		Measured Hammer Efficiency (%): <u>Not Available</u>
_____		Hole Diameter: <u>6 inches</u> Casing Diameter: <u>NA</u>
_____		Total Depth: <u>5 feet</u> Depth to Groundwater: <u>Not Identified</u>

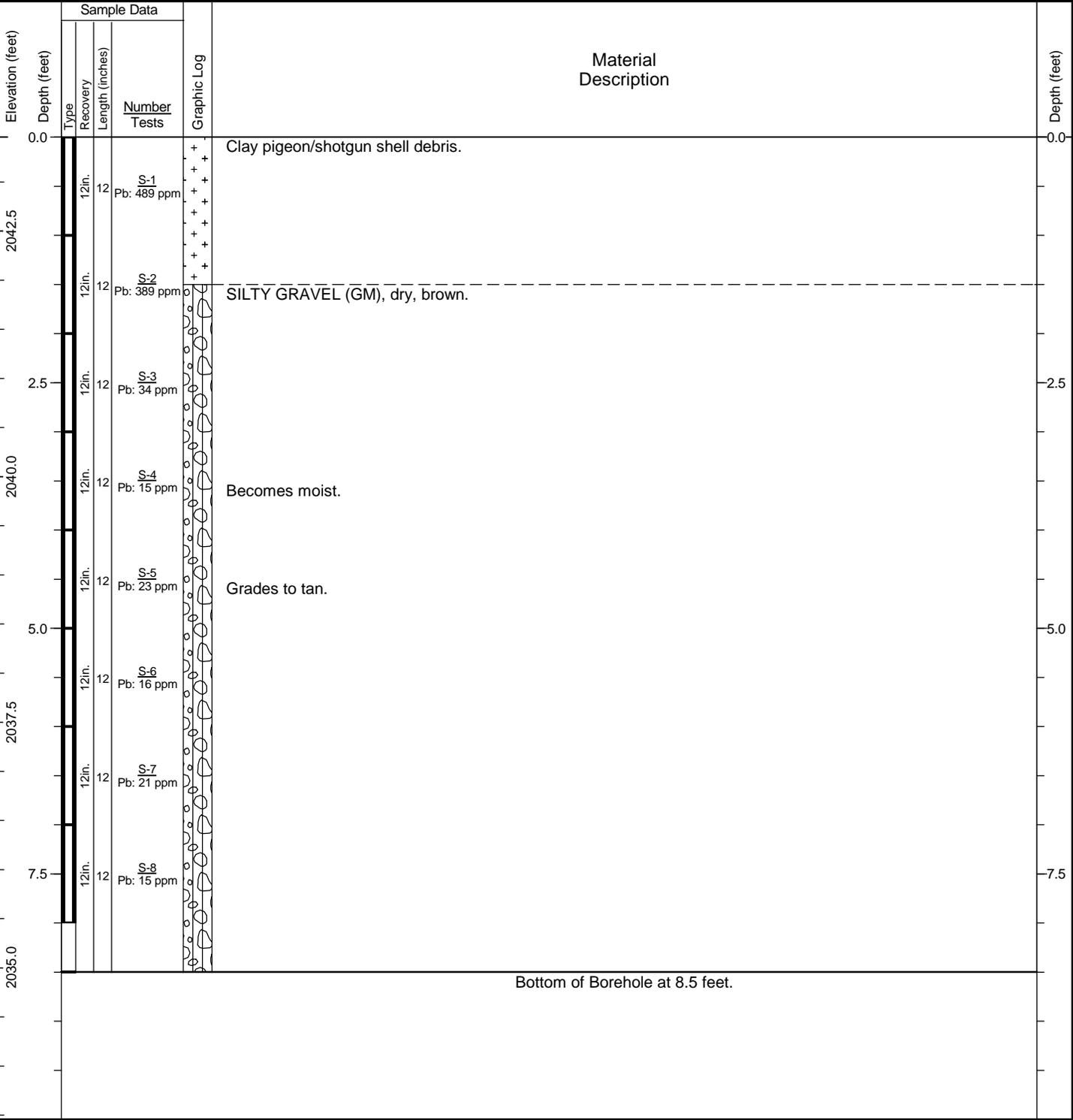


General Notes:

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Date Started: <u>10/5/20</u>	Date Completed: <u>10/5/20</u>	Drilling Contractor/Crew: <u>Anderson Environmental Contracting, LLC</u>
Logged by: <u>K. Huddleston</u>	Checked by: <u>W. McDonald</u>	Drilling Method: <u>Sonic</u>
Location: <u>Lat: 47.659702 Long: -117.140927 (WA State Plane N, NAD 83, ft.)</u>		Rig Model/Type: <u>TSi 150CC / Track-mounted drill rig</u>
Ground Surface Elevation: <u>2,043.46 feet (NAVD 88)</u>		Hammer Type: _____
Comments: _____		Hammer Weight (pounds): _____ Hammer Drop Height (inches): _____
_____		Measured Hammer Efficiency (%): <u>Not Available</u>
_____		Hole Diameter: <u>6 inches</u> Casing Diameter: <u>NA</u>
_____		Total Depth: <u>8.5 feet</u> Depth to Groundwater: <u>Not Identified</u>

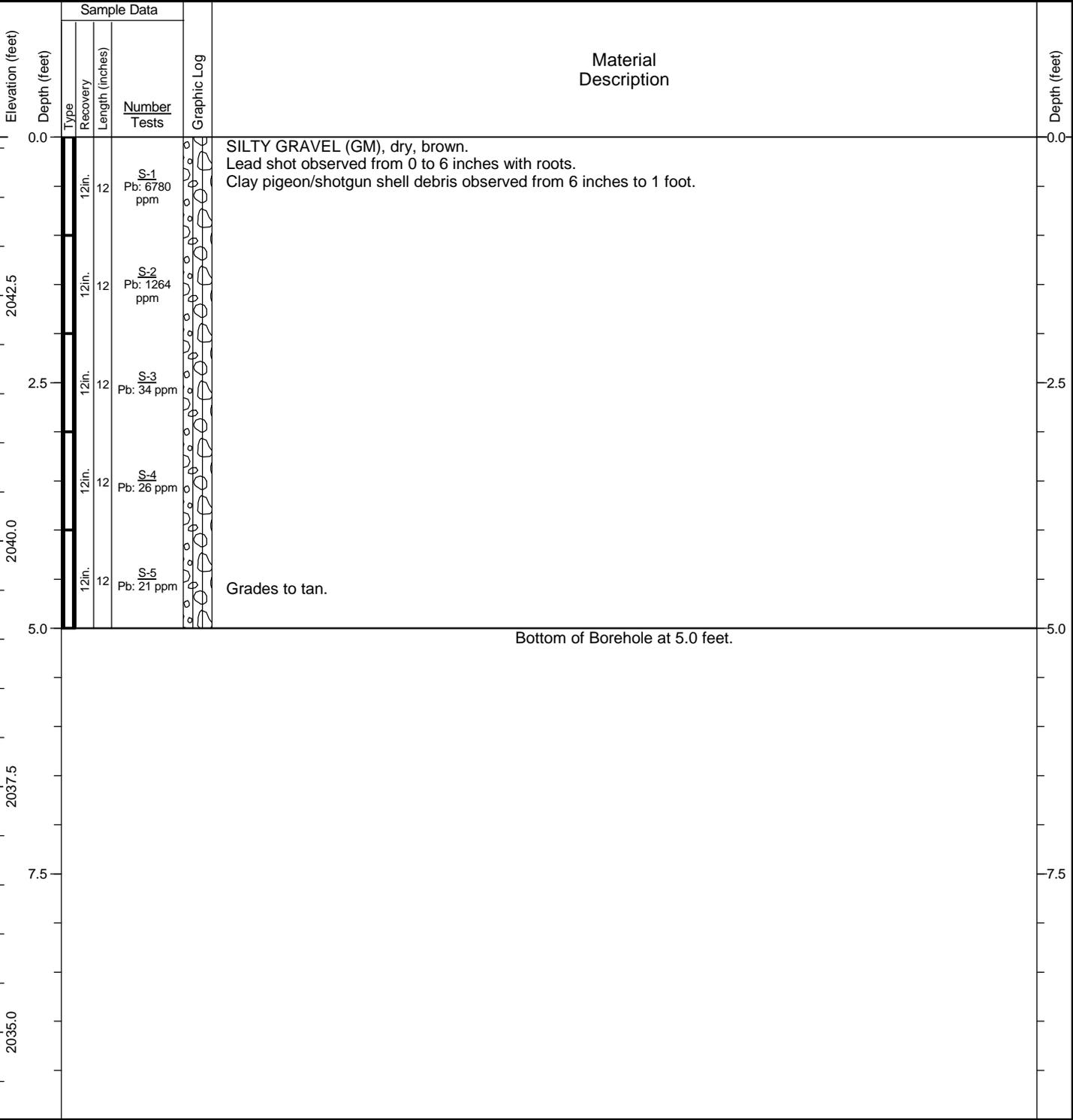


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Date Started: <u>10/6/20</u>	Date Completed: <u>10/6/20</u>	Drilling Contractor/Crew: <u>Anderson Environmental Contracting, LLC</u>
Logged by: <u>K. Huddleston</u>	Checked by: <u>W. McDonald</u>	Drilling Method: <u>Sonic</u>
Location: <u>Lat: 47.659982 Long: -117.140123 (WA State Plane N, NAD 83, ft.)</u>		Rig Model/Type: <u>TSi 150CC / Track-mounted drill rig</u>
Ground Surface Elevation: <u>2,044.11 feet (NAVD 88)</u>		Hammer Type: _____
Comments: _____		Hammer Weight (pounds): _____ Hammer Drop Height (inches): _____
_____		Measured Hammer Efficiency (%): <u>Not Available</u>
_____		Hole Diameter: <u>6 inches</u> Casing Diameter: <u>NA</u>
_____		Total Depth: <u>5 feet</u> Depth to Groundwater: <u>Not Identified</u>

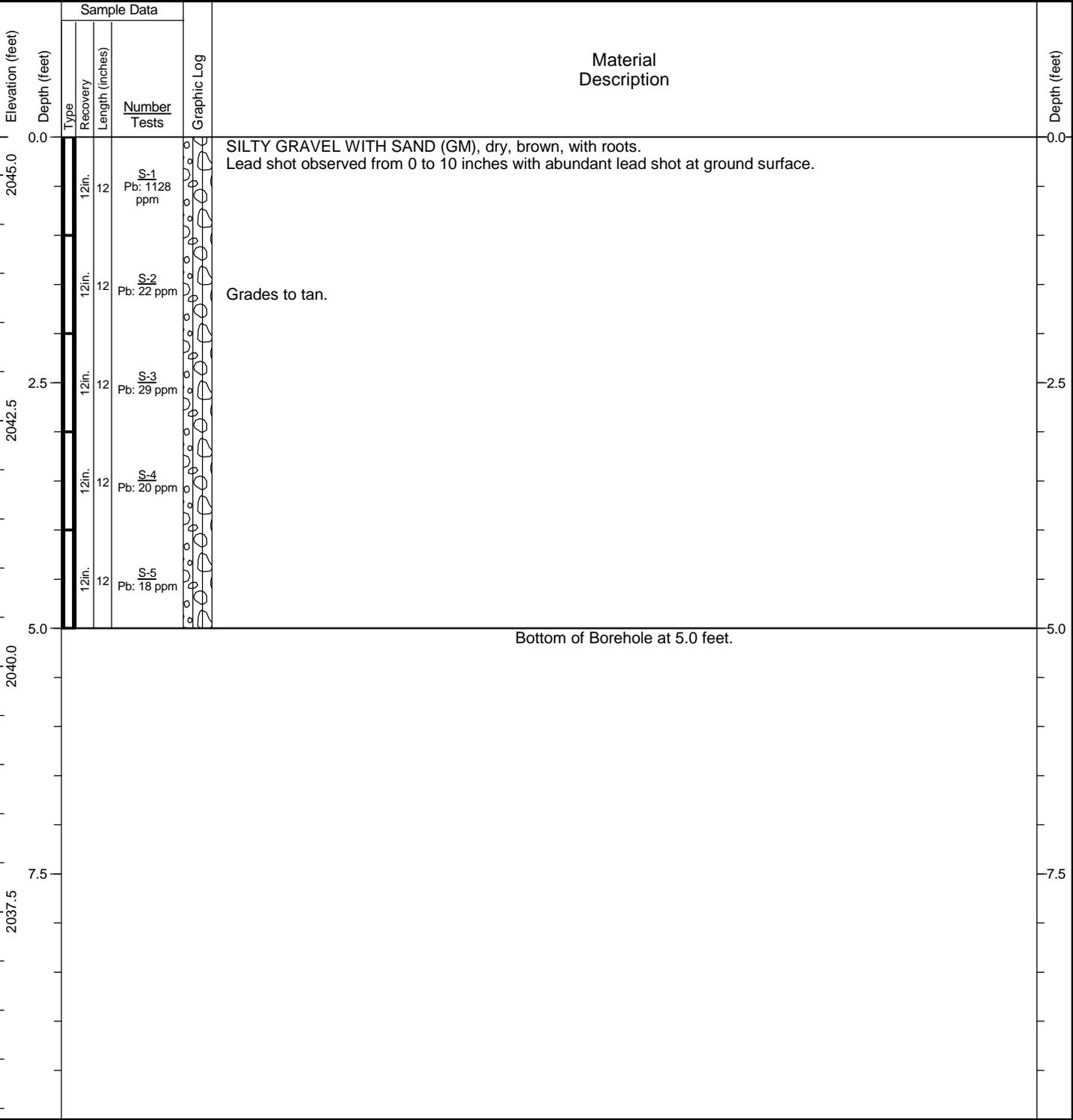


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Date Started: <u>10/6/20</u>	Date Completed: <u>10/6/20</u>	Drilling Contractor/Crew: <u>Anderson Environmental Contracting, LLC</u>
Logged by: <u>K. Huddleston</u>	Checked by: <u>W. McDonald</u>	Drilling Method: <u>Sonic</u>
Location: <u>Lat: 47.660106 Long: -117.139043 (WA State Plane N, NAD 83, ft.)</u>		Rig Model/Type: <u>TSi 150CC / Track-mounted drill rig</u>
Ground Surface Elevation: <u>2,045.39 feet (NAVD 88)</u>		Hammer Type: _____
Comments: _____		Hammer Weight (pounds): _____ Hammer Drop Height (inches): _____
_____		Measured Hammer Efficiency (%): <u>Not Available</u>
_____		Hole Diameter: <u>6 inches</u> Casing Diameter: <u>NA</u>
_____		Total Depth: <u>5 feet</u> Depth to Groundwater: <u>Not Identified</u>

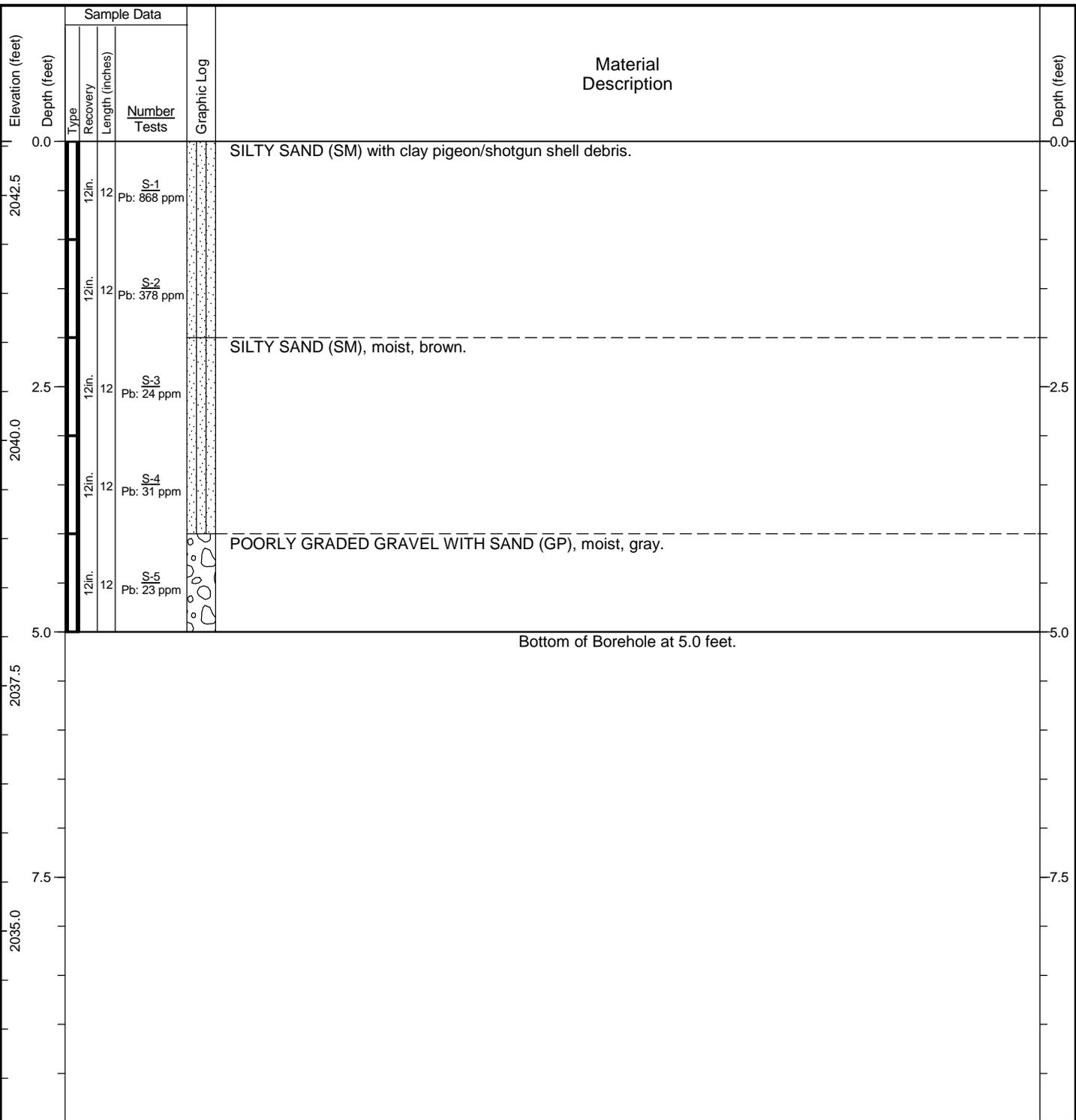


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Date Started: <u>10/5/20</u>	Date Completed: <u>10/5/20</u>	Drilling Contractor/Crew: <u>Anderson Environmental Contracting, LLC</u>
Logged by: <u>K. Huddleston</u>	Checked by: <u>W. McDonald</u>	Drilling Method: <u>Sonic</u>
Location: <u>Lat: 47.659399 Long: -117.140465 (WA State Plane N, NAD 83, ft.)</u>		Rig Model/Type: <u>TSi 150CC / Track-mounted drill rig</u>
Ground Surface Elevation: <u>2,043.05 feet (NAVD 88)</u>		Hammer Type: _____
Comments: _____		Hammer Weight (pounds): _____ Hammer Drop Height (inches): _____
_____		Measured Hammer Efficiency (%): <u>Not Available</u>
_____		Hole Diameter: <u>6 inches</u> Casing Diameter: <u>NA</u>
_____		Total Depth: <u>5 feet</u> Depth to Groundwater: <u>Not Identified</u>

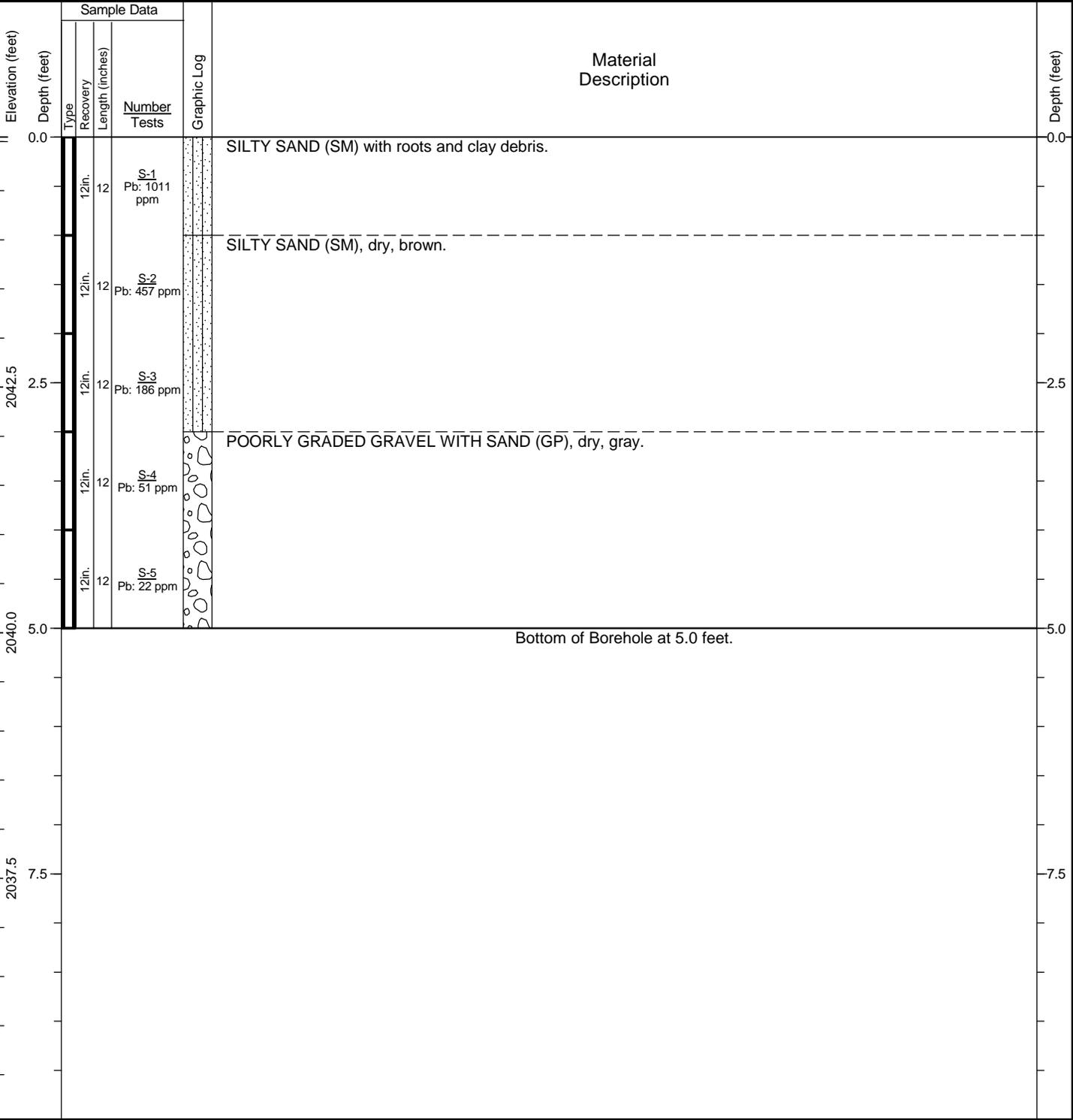


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Date Started: <u>10/5/20</u>	Date Completed: <u>10/5/20</u>	Drilling Contractor/Crew: <u>Anderson Environmental Contracting, LLC</u>
Logged by: <u>K. Huddleston</u>	Checked by: <u>W. McDonald</u>	Drilling Method: <u>Sonic</u>
Location: <u>Lat: 47.659060 Long: -117.139924 (WA State Plane N, NAD 83, ft.)</u>		Rig Model/Type: <u>TSi 150CC / Track-mounted drill rig</u>
Ground Surface Elevation: <u>2,045.05 feet (NAVD 88)</u>		Hammer Type: _____
Comments: _____		Hammer Weight (pounds): _____ Hammer Drop Height (inches): _____
_____		Measured Hammer Efficiency (%): <u>Not Available</u>
_____		Hole Diameter: <u>6 inches</u> Casing Diameter: <u>NA</u>
_____		Total Depth: <u>5 feet</u> Depth to Groundwater: <u>Not Identified</u>

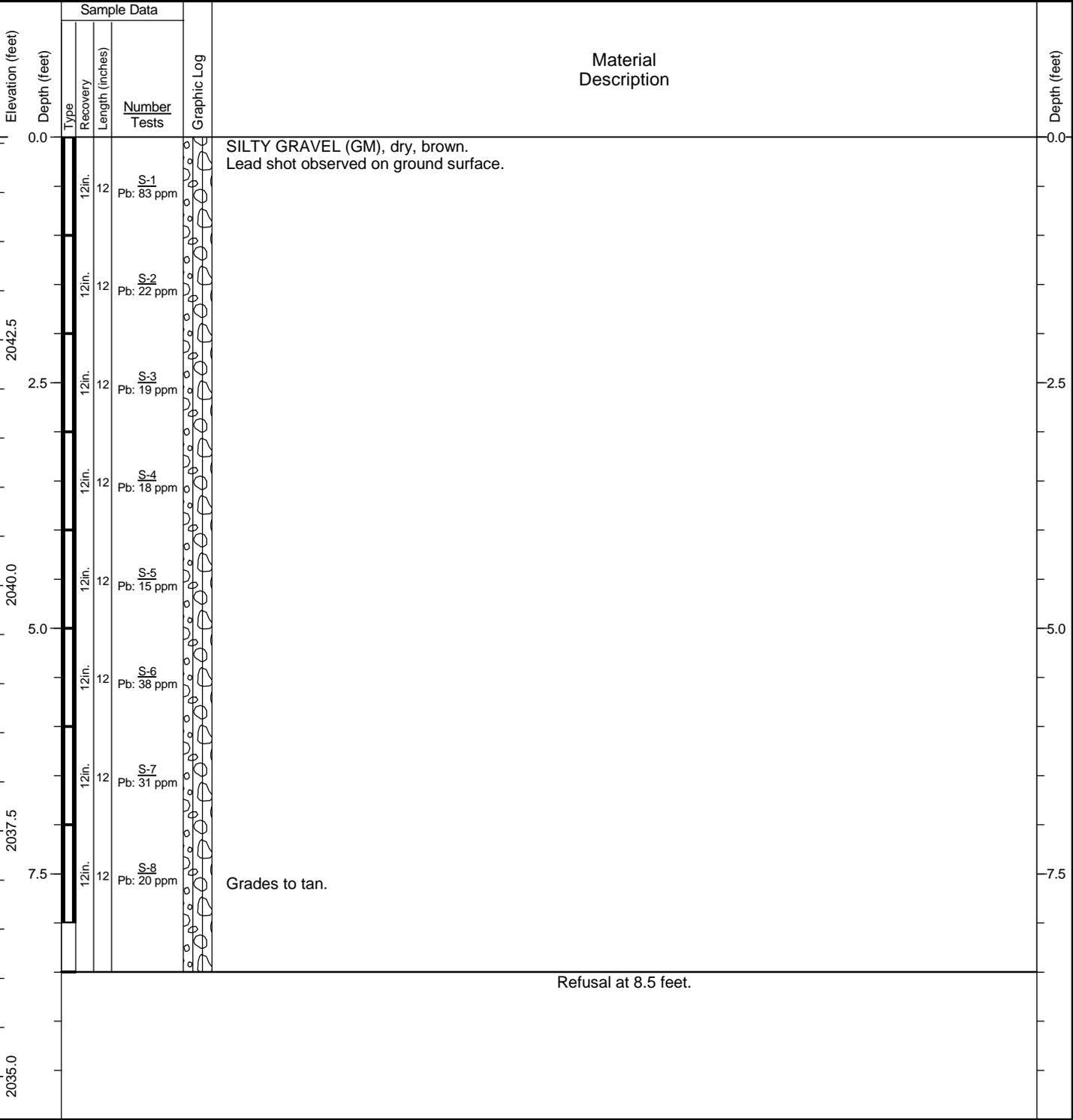


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Date Started: <u>10/5/20</u>	Date Completed: <u>10/5/20</u>	Drilling Contractor/Crew: <u>Anderson Environmental Contracting, LLC</u>
Logged by: <u>K. Huddleston</u>	Checked by: <u>W. McDonald</u>	Drilling Method: <u>Sonic</u>
Location: <u>Lat: 47.659275 Long: -117.139084 (WA State Plane N, NAD 83, ft.)</u>		Rig Model/Type: <u>TSi 150CC / Track-mounted drill rig</u>
Ground Surface Elevation: <u>2,044.56 feet (NAVD 88)</u>		Hammer Type: _____
Comments: _____		Hammer Weight (pounds): _____ Hammer Drop Height (inches): _____
_____		Measured Hammer Efficiency (%): <u>Not Available</u>
_____		Hole Diameter: <u>6 inches</u> Casing Diameter: <u>NA</u>
_____		Total Depth: <u>8.5 feet</u> Depth to Groundwater: <u>Not Identified</u>

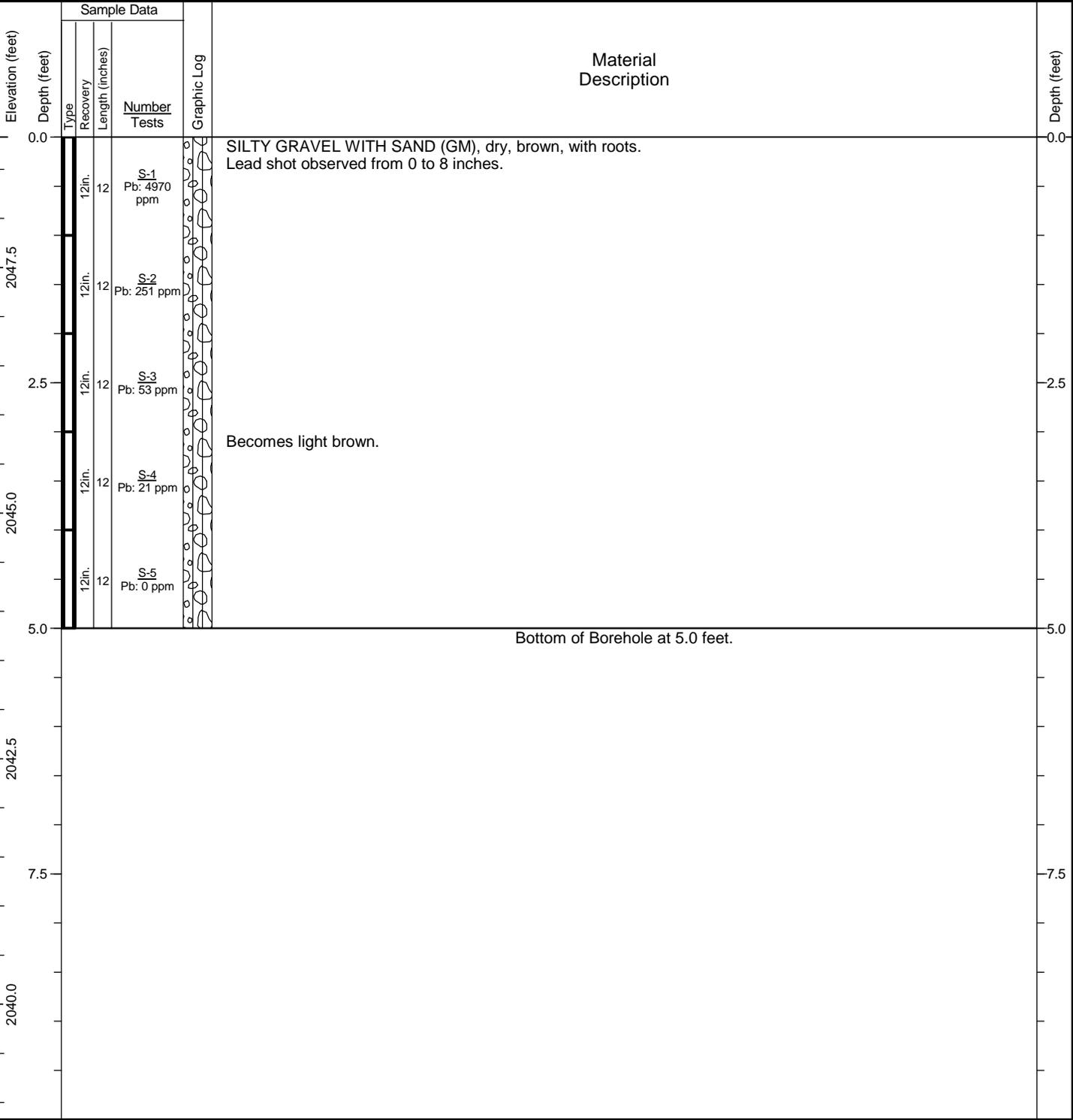


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Date Started: <u>10/6/20</u>	Date Completed: <u>10/6/20</u>	Drilling Contractor/Crew: <u>Anderson Environmental Contracting, LLC</u>
Logged by: <u>K. Huddleston</u>	Checked by: <u>W. McDonald</u>	Drilling Method: <u>Sonic</u>
Location: <u>Lat: 47.659422 Long: -117.138014 (WA State Plane N, NAD 83, ft.)</u>		Rig Model/Type: <u>TSi 150CC / Track-mounted drill rig</u>
Ground Surface Elevation: <u>2,048.83 feet (NAVD 88)</u>		Hammer Type: _____
Comments: _____		Hammer Weight (pounds): _____ Hammer Drop Height (inches): _____
_____		Measured Hammer Efficiency (%): <u>Not Available</u>
_____		Hole Diameter: <u>6 inches</u> Casing Diameter: <u>NA</u>
_____		Total Depth: <u>5 feet</u> Depth to Groundwater: <u>Not Identified</u>

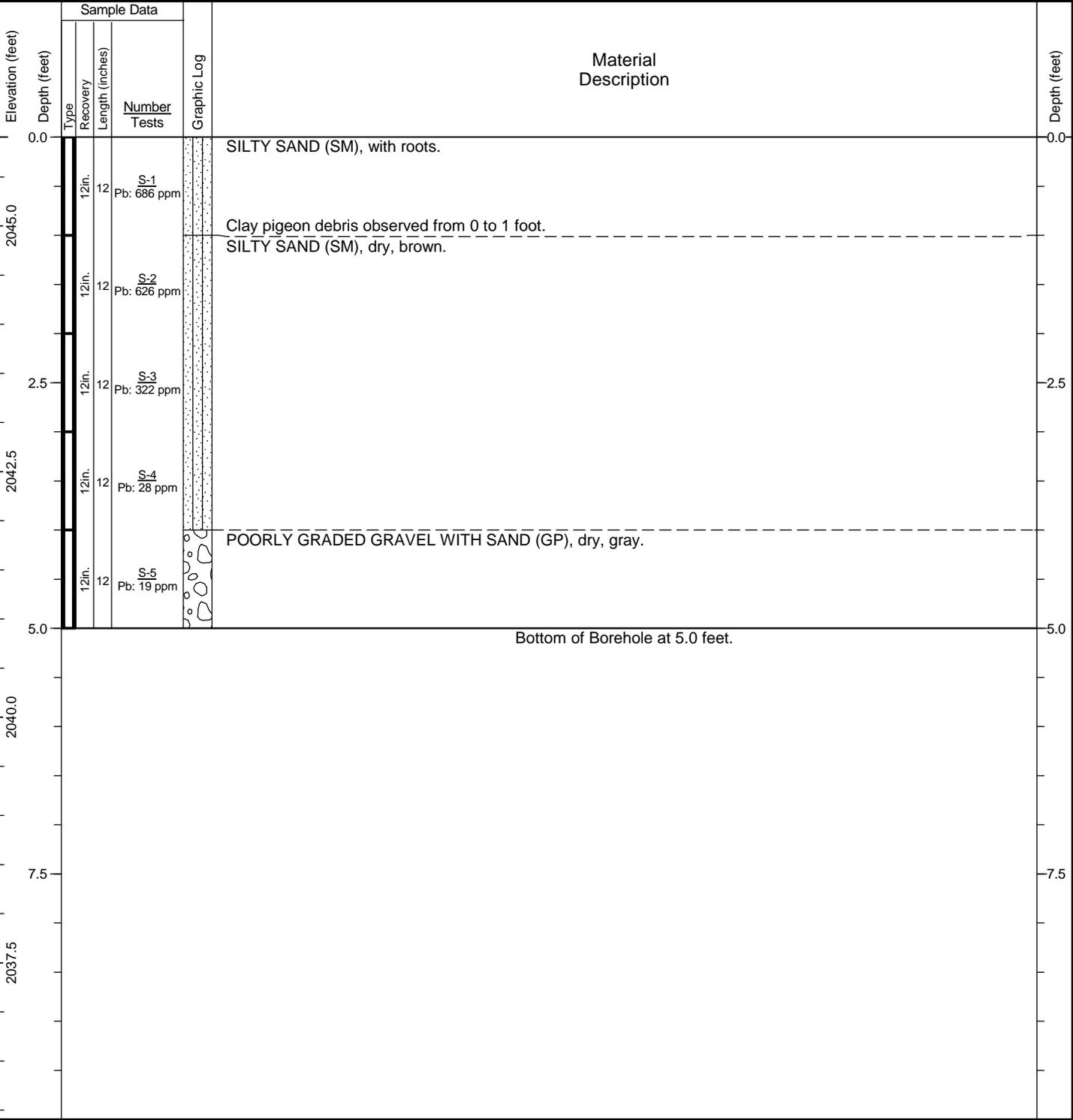


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Date Started: <u>10/5/20</u>	Date Completed: <u>10/5/20</u>	Drilling Contractor/Crew: <u>Anderson Environmental Contracting, LLC</u>
Logged by: <u>K. Huddleston</u>	Checked by: <u>W. McDonald</u>	Drilling Method: <u>Sonic</u>
Location: <u>Lat: 47.658686 Long: -117.139400 (WA State Plane N, NAD 83, ft.)</u>		Rig Model/Type: <u>TSi 150CC / Track-mounted drill rig</u>
Ground Surface Elevation: <u>2,045.91 feet (NAVD 88)</u>		Hammer Type: _____
Comments: _____		Hammer Weight (pounds): _____ Hammer Drop Height (inches): _____
_____		Measured Hammer Efficiency (%): <u>Not Available</u>
_____		Hole Diameter: <u>6 inches</u> Casing Diameter: <u>NA</u>
_____		Total Depth: <u>5 feet</u> Depth to Groundwater: <u>Not Identified</u>

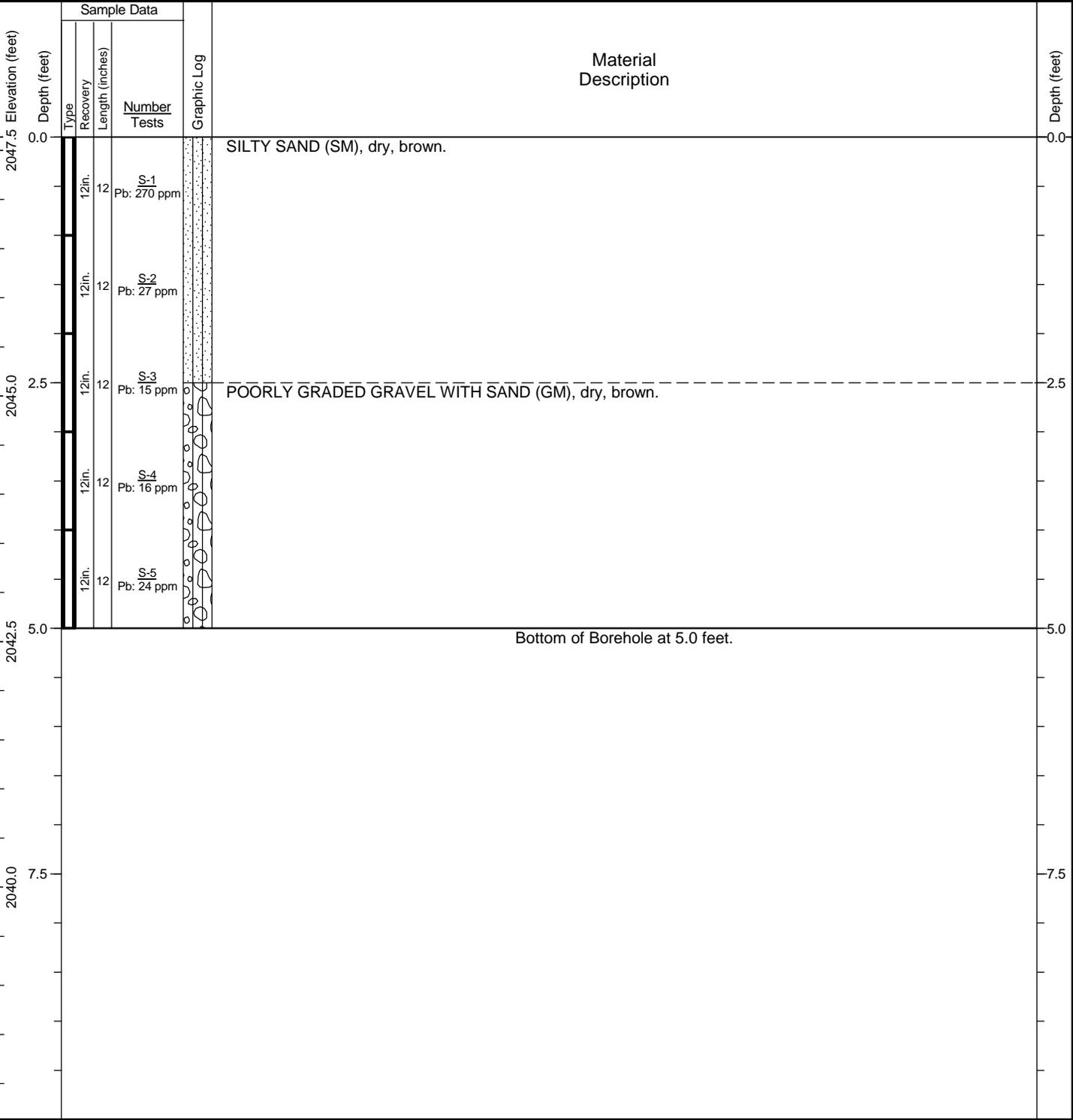


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Date Started: <u>10/5/20</u>	Date Completed: <u>10/5/20</u>	Drilling Contractor/Crew: <u>Anderson Environmental Contracting, LLC</u>
Logged by: <u>K. Huddleston</u>	Checked by: <u>W. McDonald</u>	Drilling Method: <u>Sonic</u>
Location: <u>Lat: 47.658341 Long: -117.138868 (WA State Plane N, NAD 83, ft.)</u>		Rig Model/Type: <u>TSi 150CC / Track-mounted drill rig</u>
Ground Surface Elevation: <u>2,047.64 feet (NAVD 88)</u>		Hammer Type: _____
Comments: _____		Hammer Weight (pounds): _____ Hammer Drop Height (inches): _____
_____		Measured Hammer Efficiency (%): <u>Not Available</u>
_____		Hole Diameter: <u>6 inches</u> Casing Diameter: <u>NA</u>
_____		Total Depth: <u>5 feet</u> Depth to Groundwater: <u>Not Identified</u>

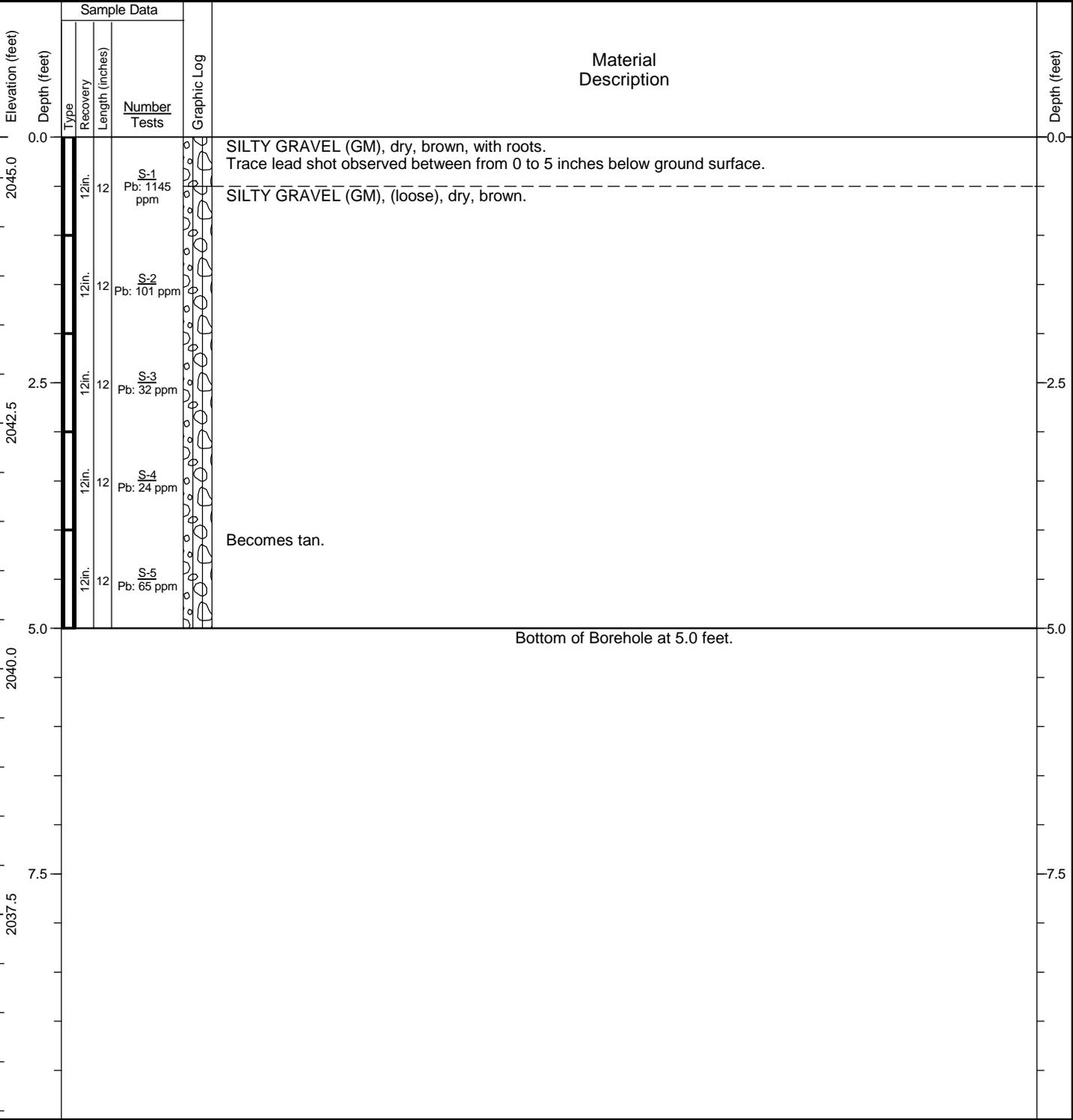


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Date Started: <u>10/6/20</u>	Date Completed: <u>10/6/20</u>	Drilling Contractor/Crew: <u>Anderson Environmental Contracting, LLC</u>
Logged by: <u>K. Huddleston</u>	Checked by: <u>W. McDonald</u>	Drilling Method: <u>Sonic</u>
Location: <u>Lat: 47.658603 Long: -117.138046 (WA State Plane N, NAD 83, ft.)</u>		Rig Model/Type: <u>TSi 150CC / Track-mounted drill rig</u>
Ground Surface Elevation: <u>2,045.41 feet (NAVD 88)</u>		Hammer Type: _____
Comments: _____		Hammer Weight (pounds): _____ Hammer Drop Height (inches): _____
_____		Measured Hammer Efficiency (%): <u>Not Available</u>
_____		Hole Diameter: <u>6 inches</u> Casing Diameter: <u>NA</u>
_____		Total Depth: <u>5 feet</u> Depth to Groundwater: <u>Not Identified</u>

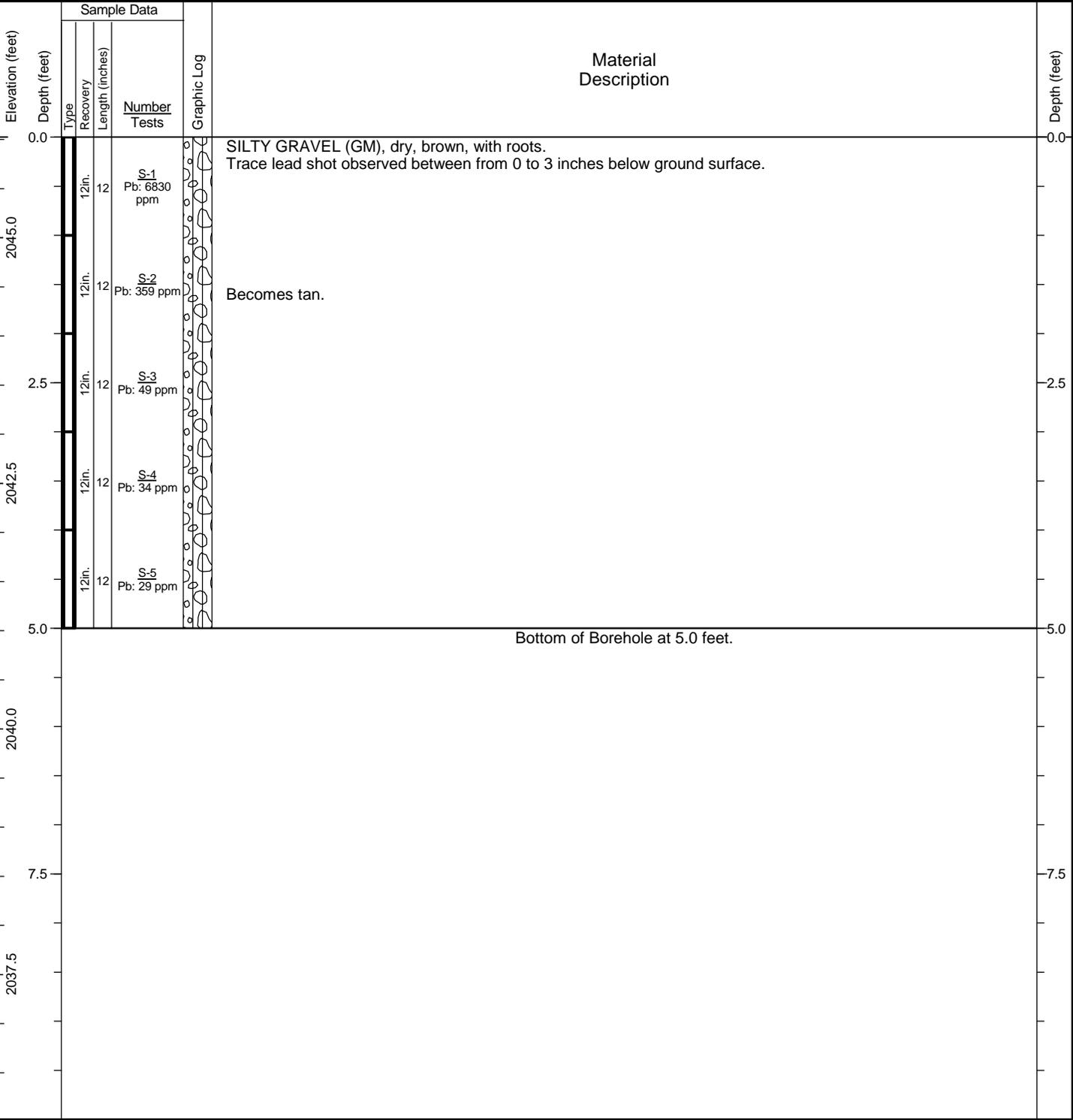


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Date Started: <u>10/6/20</u>	Date Completed: <u>10/6/20</u>	Drilling Contractor/Crew: <u>Anderson Environmental Contracting, LLC</u>
Logged by: <u>K. Huddleston</u>	Checked by: <u>W. McDonald</u>	Drilling Method: <u>Sonic</u>
Location: <u>Lat: 47.658654 Long: -117.136833 (WA State Plane N, NAD 83, ft.)</u>		Rig Model/Type: <u>TSi 150CC / Track-mounted drill rig</u>
Ground Surface Elevation: <u>2,046.03 feet (NAVD 88)</u>		Hammer Type: _____
Comments: _____		Hammer Weight (pounds): _____ Hammer Drop Height (inches): _____
_____		Measured Hammer Efficiency (%): <u>Not Available</u>
_____		Hole Diameter: <u>6 inches</u> Casing Diameter: <u>NA</u>
_____		Total Depth: <u>5 feet</u> Depth to Groundwater: <u>Not Identified</u>

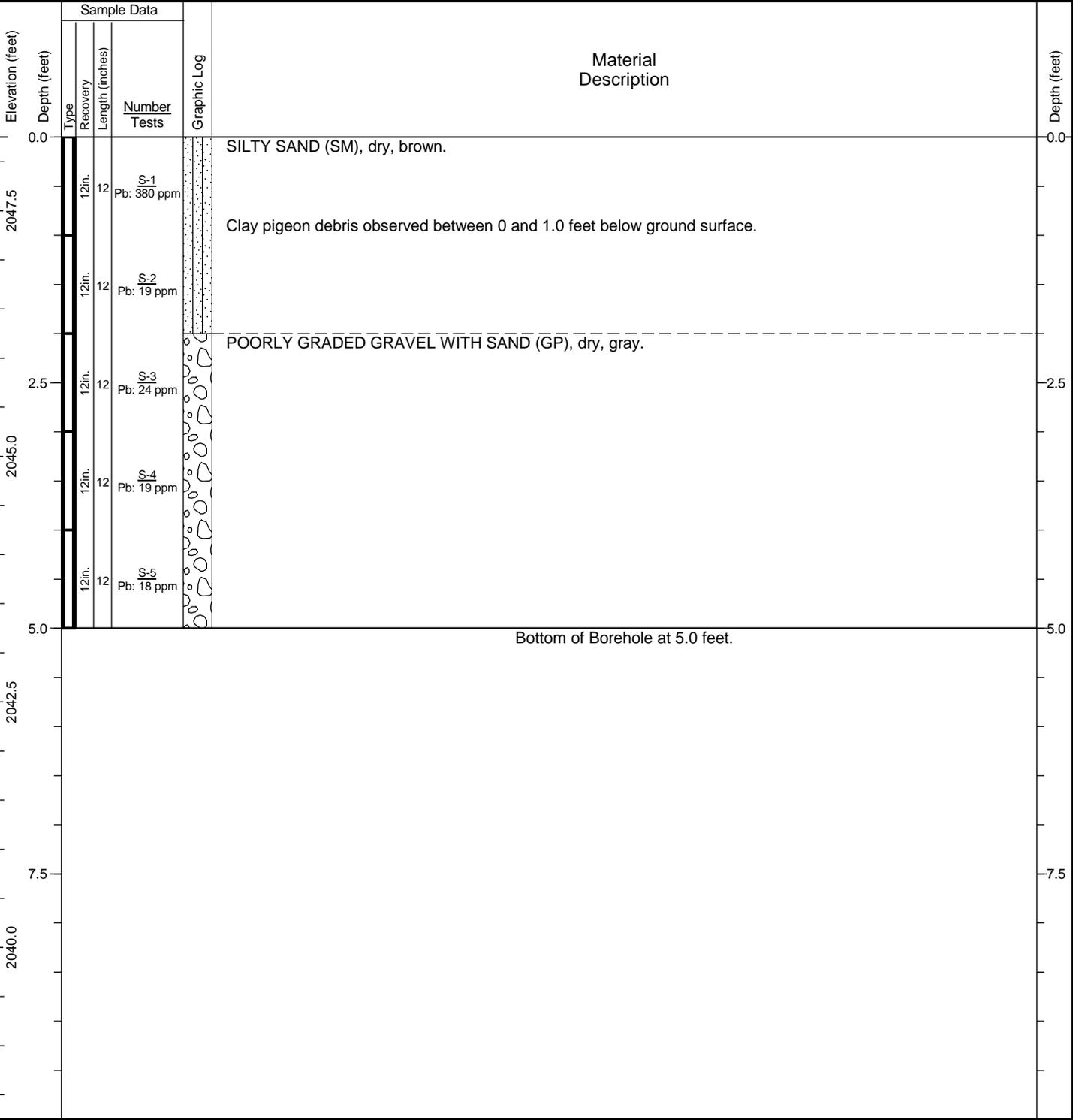


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Date Started: <u>10/5/20</u>	Date Completed: <u>10/5/20</u>	Drilling Contractor/Crew: <u>Anderson Environmental Contracting, LLC</u>
Logged by: <u>K. Huddleston</u>	Checked by: <u>W. McDonald</u>	Drilling Method: <u>Sonic</u>
Location: <u>Lat: 47.657978 Long: -117.138326 (WA State Plane N, NAD 83, ft.)</u>		Rig Model/Type: <u>TSi 150CC / Track-mounted drill rig</u>
Ground Surface Elevation: <u>2,048.25 feet (NAVD 88)</u>		Hammer Type: _____
Comments: _____		Hammer Weight (pounds): _____ Hammer Drop Height (inches): _____
_____		Measured Hammer Efficiency (%): <u>Not Available</u>
_____		Hole Diameter: <u>6 inches</u> Casing Diameter: <u>NA</u>
_____		Total Depth: <u>5 feet</u> Depth to Groundwater: <u>Not Identified</u>

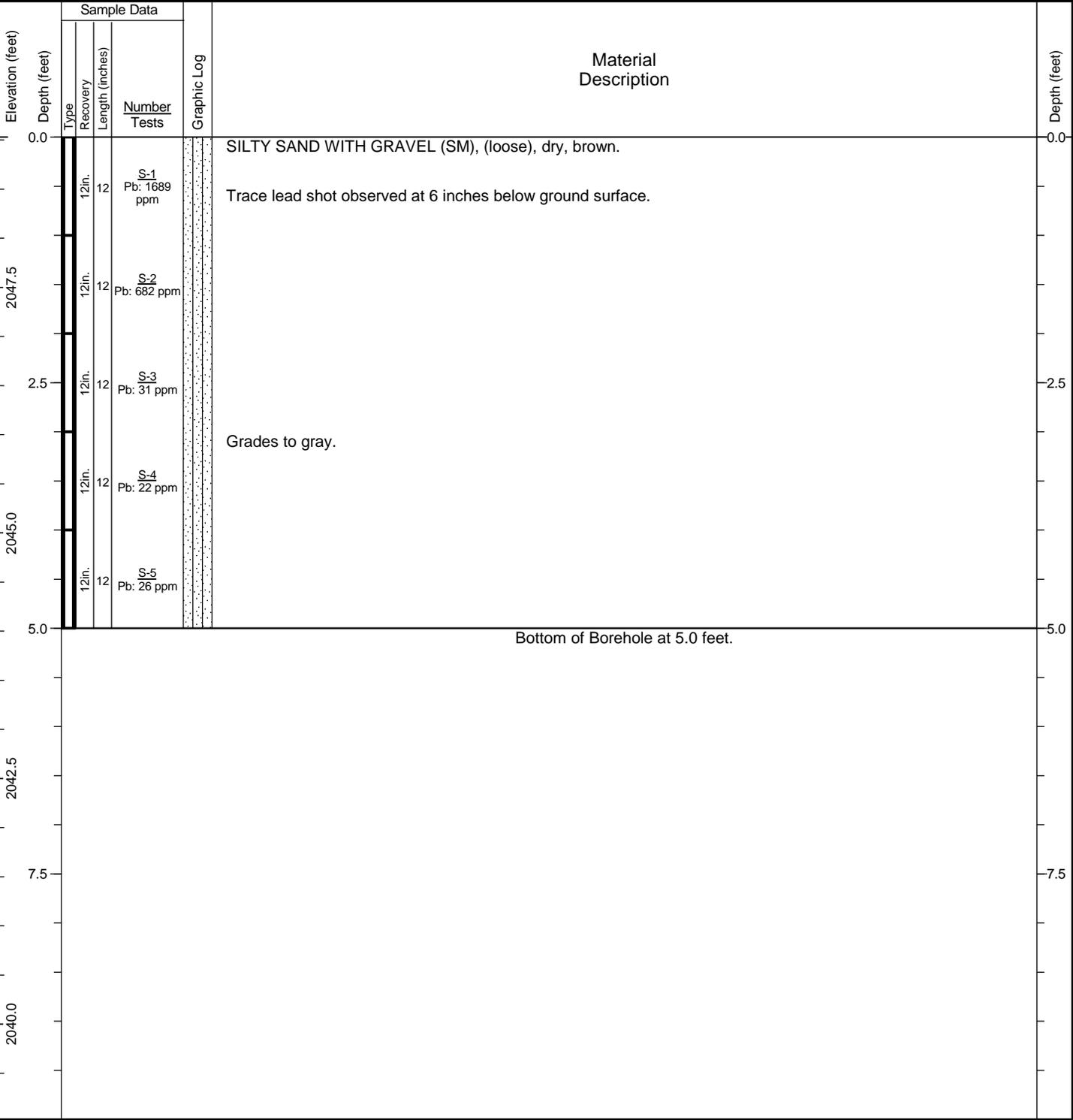


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Date Started: <u>10/5/20</u>	Date Completed: <u>10/5/20</u>	Drilling Contractor/Crew: <u>Anderson Environmental Contracting, LLC</u>
Logged by: <u>K. Huddleston</u>	Checked by: <u>W. McDonald</u>	Drilling Method: <u>Sonic</u>
Location: <u>Lat: 47.657639 Long: -117.137803 (WA State Plane N, NAD 83, ft.)</u>		Rig Model/Type: <u>TSi 150CC / Track-mounted drill rig</u>
Ground Surface Elevation: <u>2,049.03 feet (NAVD 88)</u>		Hammer Type: _____
Comments: _____		Hammer Weight (pounds): _____ Hammer Drop Height (inches): _____
		Measured Hammer Efficiency (%): <u>Not Available</u>
		Hole Diameter: <u>6 inches</u> Casing Diameter: <u>NA</u>
		Total Depth: <u>5 feet</u> Depth to Groundwater: <u>Not Identified</u>

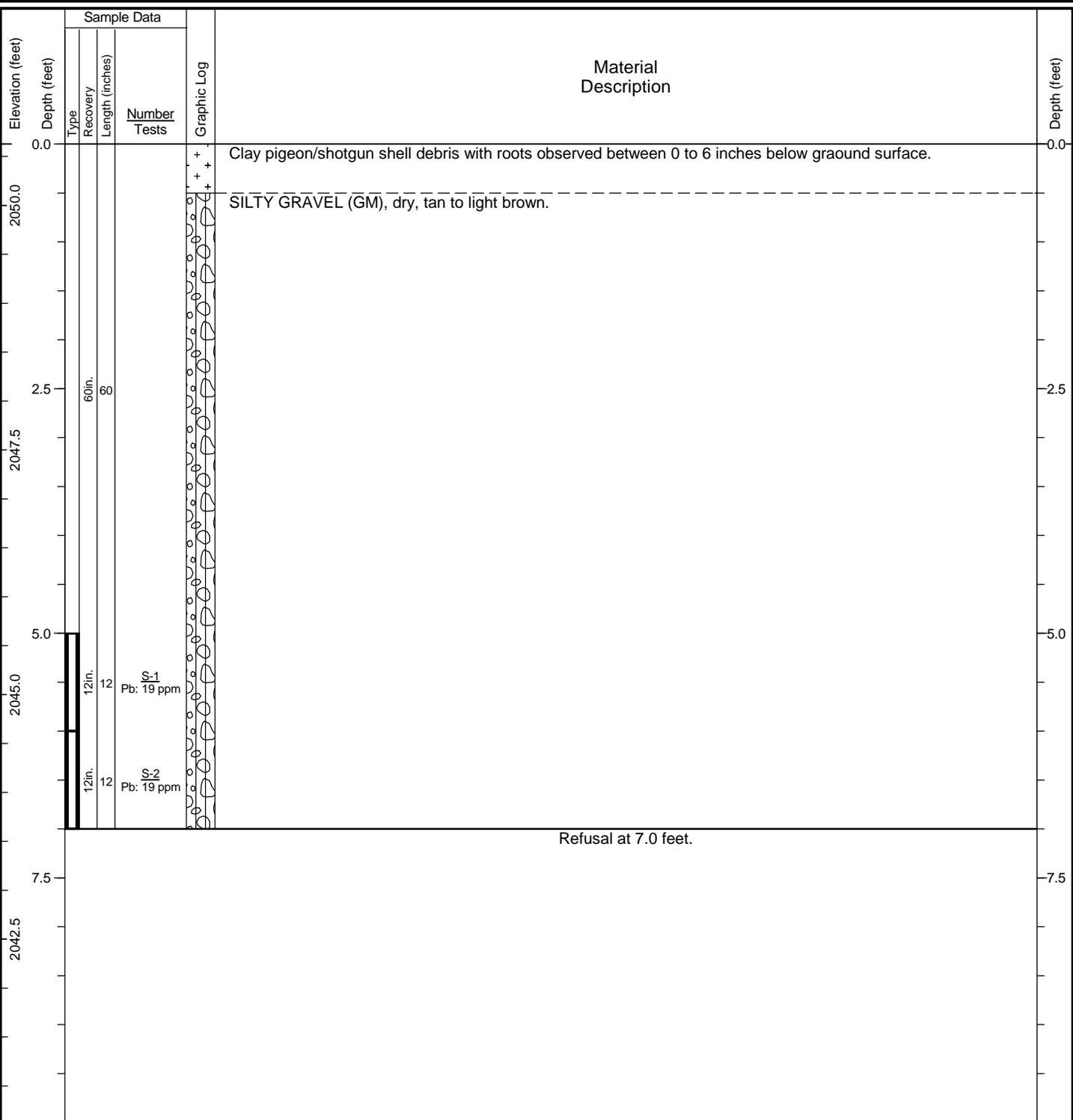


General Notes:

- Refer to Figure A-1 for explanation of descriptions and symbols.
- Material stratum lines are interpretive and actual changes may be gradual. Solid lines indicate distinct contacts and dashed lines indicate gradual or approximate contacts.
- USCS designations are based on visual-manual identification (ASTM D 2488), unless otherwise supported by laboratory testing (ASTM D 2487).
- Groundwater level, if indicated, is at time of drilling/excavation (ATD) or for date specified. Level may vary with time.
- Location and ground surface elevations are approximate.

HC BORING LOG - \\HALEYALDRICH.COM\SHARE\SEA_DATA\GINT\HC_LIBRARY\GLB - 6/1/21 10:33 - \\HALEYALDRICH.COM\SHARE\PD\X_DATA\NOTEBOOKS\150014004 - CVSD_REMEDIAL_INVESTIGATION_FEASIBILITY_STUDY\FIELD_DATA\PERM_GINT_FILES\150014004

Date Started: <u>10/5/20</u>	Date Completed: <u>10/5/20</u>	Drilling Contractor/Crew: <u>Anderson Environmental Contracting, LLC</u>
Logged by: <u>K. Huddleston</u>	Checked by: <u>W. McDonald</u>	Drilling Method: <u>Sonic</u>
Location: <u>Lat: 47.657631 Long: -117.137241 (WA State Plane N, NAD 83, ft.)</u>		Rig Model/Type: <u>TSi 150CC / Track-mounted drill rig</u>
Ground Surface Elevation: <u>2,050.63 feet (NAVD 88)</u>		Hammer Type: _____
Comments: _____		Hammer Weight (pounds): _____ Hammer Drop Height (inches): _____
_____		Measured Hammer Efficiency (%): <u>Not Available</u>
_____		Hole Diameter: <u>6 inches</u> Casing Diameter: <u>NA</u>
_____		Total Depth: <u>7 feet</u> Depth to Groundwater: <u>Not Identified</u>

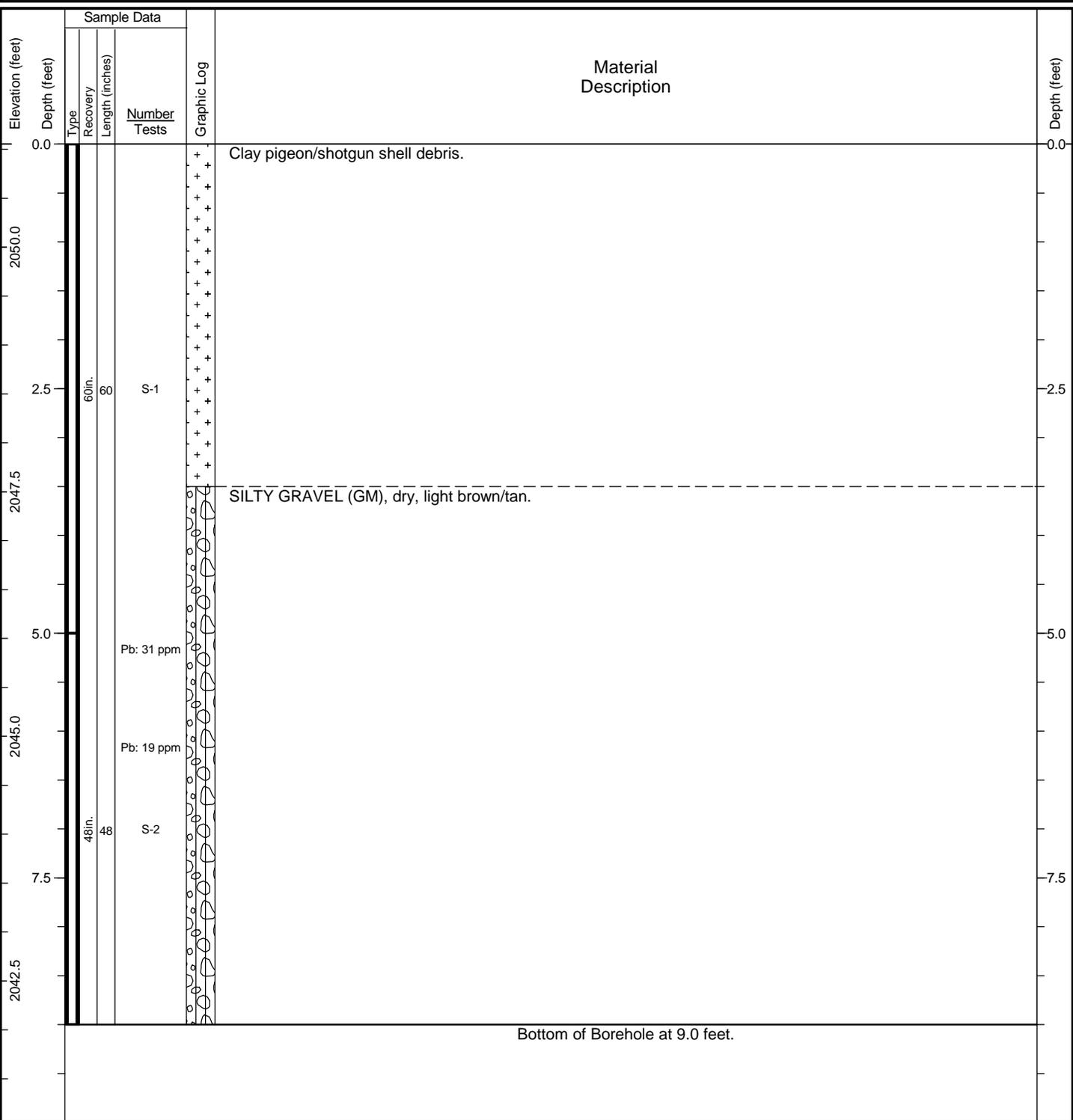


General Notes:

- Refer to Figure A-1 for explanation of descriptions and symbols.
- Material stratum lines are interpretive and actual changes may be gradual. Solid lines indicate distinct contacts and dashed lines indicate gradual or approximate contacts.
- USCS designations are based on visual-manual identification (ASTM D 2488), unless otherwise supported by laboratory testing (ASTM D 2487).
- Groundwater level, if indicated, is at time of drilling/excavation (ATD) or for date specified. Level may vary with time.
- Location and ground surface elevations are approximate.

HC BORING LOG - \\HALEYALDRICH.COM\SHARE\SEA_DATA\GINT\HC_LIBRARY_GLB - 6/1/21 10:33 - \\HALEYALDRICH.COM\SHARE\PD\DATA\NOTEBOOKS\150014004_CVSD_REMEDIAL_INVESTIGATION-FEASIBILITY_STUDY\FIELD_DATA\PERM_GINT FILES\150014004-

Date Started: <u>10/6/20</u>	Date Completed: <u>10/6/20</u>	Drilling Contractor/Crew: <u>Anderson Environmental Contracting, LLC</u>
Logged by: <u>K. Huddleston</u>	Checked by: <u>W. McDonald</u>	Drilling Method: <u>Sonic</u>
Location: <u>Lat: 47.657805 Long: -117.136839 (WA State Plane N, NAD 83, ft.)</u>		Rig Model/Type: <u>TSi 150CC / Track-mounted drill rig</u>
Ground Surface Elevation: <u>2,051.05 feet (NAVD 88)</u>		Hammer Type: _____
Comments: _____		Hammer Weight (pounds): _____ Hammer Drop Height (inches): _____
_____		Measured Hammer Efficiency (%): <u>Not Available</u>
_____		Hole Diameter: <u>6 inches</u> Casing Diameter: <u>NA</u>
_____		Total Depth: <u>9 feet</u> Depth to Groundwater: <u>Not Identified</u>

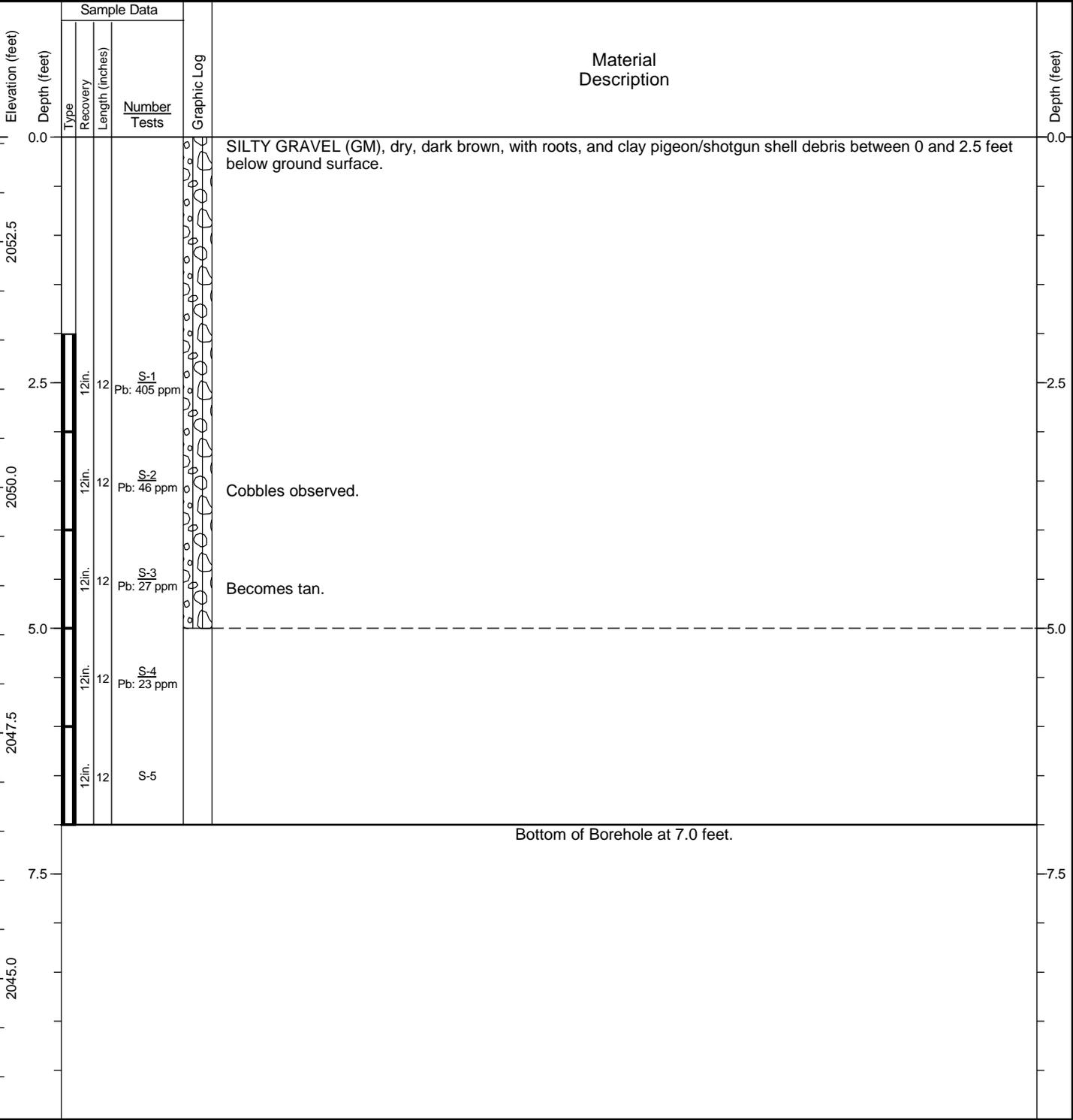


General Notes:

- Refer to Figure A-1 for explanation of descriptions and symbols.
- Material stratum lines are interpretive and actual changes may be gradual. Solid lines indicate distinct contacts and dashed lines indicate gradual or approximate contacts.
- USCS designations are based on visual-manual identification (ASTM D 2488), unless otherwise supported by laboratory testing (ASTM D 2487).
- Groundwater level, if indicated, is at time of drilling/excavation (ATD) or for date specified. Level may vary with time.
- Location and ground surface elevations are approximate.

HC BORING LOG - \\HALEYALDRICH.COM\SHARE\SEA_DATA\GINT\HC_LIBRARY\GLB - 6/1/21 10:33 - \\HALEYALDRICH.COM\SHARE\PD\X_DATA\NOTEBOOKS\150014004_CVSD_REMEDIAL_INVESTIGATION-FEASIBILITY_STUDY\FIELD_DATA\PERM_GINT FILES\150014004-

Date Started: <u>10/6/20</u>	Date Completed: <u>10/6/20</u>	Drilling Contractor/Crew: <u>Anderson Environmental Contracting, LLC</u>
Logged by: <u>K. Huddleston</u>	Checked by: <u>W. McDonald</u>	Drilling Method: <u>Sonic</u>
Location: <u>Lat: 47.657522 Long: -117.136778 (WA State Plane N, NAD 83, ft.)</u>		Rig Model/Type: <u>TSi 150CC / Track-mounted drill rig</u>
Ground Surface Elevation: <u>2,053.57 feet (NAVD 88)</u>		Hammer Type: _____
Comments: _____		Hammer Weight (pounds): _____ Hammer Drop Height (inches): _____
_____		Measured Hammer Efficiency (%): <u>Not Available</u>
_____		Hole Diameter: <u>6 inches</u> Casing Diameter: <u>NA</u>
_____		Total Depth: <u>7 feet</u> Depth to Groundwater: <u>Not Identified</u>



- General Notes:
1. Refer to Figure A-1 for explanation of descriptions and symbols.
 2. Material stratum lines are interpretive and actual changes may be gradual. Solid lines indicate distinct contacts and dashed lines indicate gradual or approximate contacts.
 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.
 5. Location and ground surface elevations are approximate.

APPENDIX B

Laboratory Reports

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

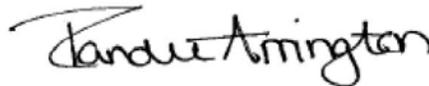
ANALYTICAL REPORT

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.

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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

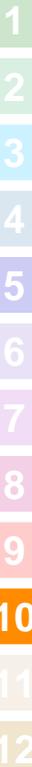
Protocol References:

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



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 206.328.5588

JOB CVSD LAB NUMBER _____
PROJECT NAME FOCUSED PHASE II BSA
HART CROWSER CONTACT JOHN HANEY
SAMPLED BY: W. McBRATTON

LAB NO.	SAMPLE ID	DESCRIPTION	DATE	TIME	MATRIX	REQUESTED ANALYSIS	NO. OF CONTAINERS
						LEAD (TOTAL) PAAH'S	
	TP-19-6		8/2/18	0958	Soil	X	Hold
	TP-19-12			0951		X	Hold
	TP-20-6			1000		X	Hold
	TP-20-12			1001		X	Hold
	TP-20-6			1010		X	Hold
	TP-21-12			1011		X	Hold
	TP-22-6			1020		X	Hold
	TP-22-12			1021		X	Hold
	TP-23-6			1030		X	Hold
	TP-23-12			1031		X	Hold

RESERVATIONS/COMMENTS:
590-9053 Chain of Custody

SPECIAL SHIPMENT HANDLING OR STORAGE REQUIREMENTS:
COOLER NO.: _____ STORAGE LOCATION: _____

RECEIVED BY: _____ DATE: 8/2/18
SIGNATURE: _____
PRINT NAME: JOHN HANEY
COMPANY: HC

RECEIVED BY: _____ DATE: 8/2/18
SIGNATURE: _____
PRINT NAME: _____
COMPANY: _____

RELINQUISHED BY: _____ DATE: 8/2/18
SIGNATURE: _____
PRINT NAME: _____
COMPANY: _____

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

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

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

Sample Custody Record

Samples Shipped to: EST AMERICA



HART CROWSNER

Page 3 of 3

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

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			
	TP-8-6			1200		X	
	TP-8-12			1201			
	TP-7-6			1210		X	
	TP-7-12			1211			
	TP-5-6			1220		X	
	TP-5-12			1221			
	TP-4-6			1230		X	
	TP-4-12			1231			
	TP-2-6			1246		X	
	TP-2-12			1241			

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: _____

See Lab Work Order No. _____ for Other Contract Requirements

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

SAMPLE RECEIPT INFORMATION: YES NO N/A

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

T.G. C. TROBY

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		SPECIAL SHIPMENT HANDLING OR STORAGE REQUIREMENTS:	TOTAL NUMBER OF CONTAINERS	
<u>John Haney</u>		8/2/18	<u>Shirley Ford</u>	8/2/18			12	
PRINT NAME <u>JOHN HANEY</u>		TIME	PRINT NAME <u>SHIRLEY FORD</u>	TIME				
COMPANY		14:44	COMPANY <u>HA</u>	COMPANY				
RELINQUISHED BY		DATE	RECEIVED BY	DATE		COOLER NO.:	STORAGE LOCATION:	
SIGNATURE		TIME	SIGNATURE	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 7.6 STROCH

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

Revision: 1

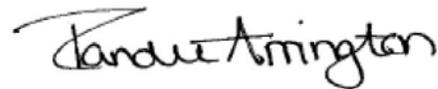
For:

Hart Crowser, Inc.

505 West Riverside Avenue, Suite 205

Spokane, Washington 99201

Attn: John Haney



Authorized for release by:

10/22/2018 12:59:48 PM

Randee Arrington, Project Manager II

(509)924-9200

randee.arrington@testamericainc.com

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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.

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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

Revision

The case narrative was revised to reflect the correct date samples were activated and analyses being requested.

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 08/08/18: 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).

The following sample was activated for 6010C Lead analysis by the client on 08/08/18: 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

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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

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

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

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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

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

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

Lab Sample ID: 590-9053-42

Date Collected: 08/02/18 11:55

Matrix: Solid

Date Received: 08/02/18 14:45

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

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

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

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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



Sample Custody Record

Samples Shipped to: EST AMERICA



Page 3 of 3

Hart Crowsner, Inc.
3131 Elliott Avenue, Suite 600
Seattle, Washington 98122
Office: 206.324.9530 • Fax 206.328.5598

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

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	LEAD (TOTAL) PAHS	1	Hold
	TP-9-12			1151				
	TP-8-6			1200				
	TP-8-12			1201				
	TP-7-6			1210				
	TP-7-12			1211				
	TP-5-6			1220		1	Hold	
	TP-5-12			1221				
	TP-4-6			1230		1	Hold	
	TP-4-12			1231				
	TP-2-6			1246		1	Hold	
	TP-2-12			1241				

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

SIGNATURE: [Signature] TIME: _____ SIGNATURE: [Signature] TIME: _____

PRINT NAME: W. Medwater PRINT NAME: J. Haney

COMPANY: HCS COMPANY: HCS

RELINQUISHED BY: _____ DATE: _____ RECEIVED BY: _____ DATE: _____

SIGNATURE: [Signature] TIME: _____ SIGNATURE: [Signature] TIME: _____

PRINT NAME: J. Haney PRINT NAME: M. Spalding

COMPANY: HCS COMPANY: MA DPO

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

White to Lab Yellow to Project Manager Pink to Sample Custodian T.G. & TRODY

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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 \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

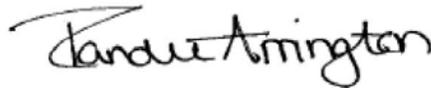
ANALYTICAL REPORT

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

TestAmerica Job ID: 590-9053-3
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

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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.

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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

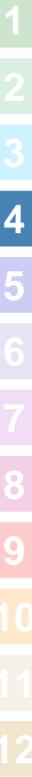
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

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

<i>Surrogate</i>	<i>LCS %Recovery</i>	<i>LCS Qualifier</i>	<i>Limits</i>
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

<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	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

<i>Surrogate</i>	<i>LCSD %Recovery</i>	<i>LCSD Qualifier</i>	<i>Limits</i>
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

<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		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	
MS MS										
Surrogate	%Recovery	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	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
MSD MSD												
Surrogate	%Recovery	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	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
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	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
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	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

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
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Method Summary

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

TestAmerica Job ID: 590-9053-3

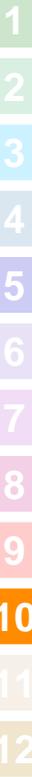
Method	Method Description	Protocol	Laboratory
8270D SIM	Semivolatile Organic Compounds (GC/MS SIM)	SW846	TAL SPK
6010C	Metals (ICP)	SW846	TAL SPK
7471B	Mercury (CVAA)	SW846	TAL SPK
3050B	Preparation, Metals	SW846	TAL SPK
3550C	Ultrasonic Extraction	SW846	TAL SPK
7471B	Preparation, Mercury	SW846	TAL SPK

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 1 of 3

Hart Crowsner, Inc.
3131 Elliott Avenue, Suite 602
Seattle, Washington 98112
Office: 206.324.9530 • Fax 206.328.5582

JOB CVSD LAB NUMBER _____
PROJECT NAME FOCUSED PHASE II BSA
HART CROWSER CONTACT JOHN HANEY
SAMPLED BY: W. McBRATTON

LAB NO.	SAMPLE ID	DESCRIPTION	DATE	TIME	MATRIX	REQUESTED ANALYSIS	NO. OF CONTAINERS
	TP-19-6		8/2/18	0958	Soil	LEAD (TOTAL) PbH'S	
	TP-19-12			0951			
	TP-20-6			1000			
	TP-20-12			1001			
	TP-20-6			1010			
	TP-21-12			1011			
	TP-22-6			1020			
	TP-22-12			1021			
	TP-23-6			1030			
	TP-23-12			1031			

SPECIAL SHIPMENT HANDLING OR STORAGE REQUIREMENTS:

COOLER NO.: _____ STORAGE LOCATION: _____

See Lab Work Order No. _____
for Other Contract Requirements

TOTAL NUMBER OF CONTAINERS _____

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
 172 HOURS OTHER _____



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

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

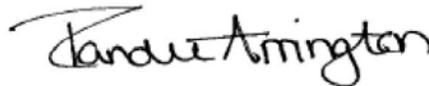
ANALYTICAL REPORT

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

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results through
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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.

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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

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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>%Recovery</i>	<i>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>%Recovery</i>	<i>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	
MS MS										
Surrogate	%Recovery	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
MSD MSD												
Surrogate	%Recovery	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

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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
-----------------	-------------	--------	---------

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- 10
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- 12

Method Summary

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

TestAmerica Job ID: 590-9053-4

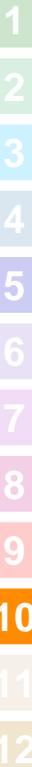
Method	Method Description	Protocol	Laboratory
8270D SIM	Semivolatile Organic Compounds (GC/MS SIM)	SW846	TAL SPK
6010C	Metals (ICP)	SW846	TAL SPK
7471B	Mercury (CVAA)	SW846	TAL SPK
3050B	Preparation, Metals	SW846	TAL SPK
3550C	Ultrasonic Extraction	SW846	TAL SPK
7471B	Preparation, Mercury	SW846	TAL SPK

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 206.328.5582

JOB CVSD LAB NUMBER _____
PROJECT NAME FOCUSED PHASE II BSA
HART CROWSNER CONTACT JOHN HANEY
SAMPLED BY: W. McBRATTON

LAB NO.	SAMPLE ID	DESCRIPTION	DATE	TIME	MATRIX	REQUESTED ANALYSIS	NO. OF CONTAINERS
	TP-19-6		8/2/18	0958	Soil	LEAD (TOTAL) PbH'S	
	TP-19-12			1000			
	TP-20-6			1001			
	TP-20-12			1010			
	TP-20-6			1011			
	TP-21-12			1020			
	TP-22-6			1021			
	TP-23-6			1030			
	TP-23-12			1031			

SPECIAL SHIPMENT HANDLING OR STORAGE REQUIREMENTS:

COOLER NO.: _____ STORAGE LOCATION: _____

See Lab Work Order No. _____
for Other Contract Requirements

TOTAL NUMBER OF CONTAINERS: Hold

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
 172 HOURS OTHER _____

590-9053 Chain of Custody

OBSERVATIONS/COMMENTS:

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

Sample Custody Record

Samples Shipped to: EST 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

LAB NO.	SAMPLE ID	DESCRIPTION	DATE	TIME	MATRIX	REQUESTED ANALYSIS	NO. OF CONTAINERS	OBSERVATIONS/COMMENTS/ COMPOSITING INSTRUCTIONS
						LEAD (TOTAL) PALS		
	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		DATE	RECEIVED BY		DATE	SPECIAL SHIPMENT HANDLING OR STORAGE REQUIREMENTS:		
SIGNATURE <i>[Signature]</i>		8/2/18	SIGNATURE <i>[Signature]</i>		8/2/18	STORAGE NO.: STORAGE LOCATION:		
PRINT NAME JIM HANEY			PRINT NAME JIM HANEY			COOLER NO.: STORAGE LOCATION:		
COMPANY HCS			COMPANY HCS			See Lab Work Order No. _____ for Other Contract Requirements		
RELINQUISHED BY		DATE	RECEIVED BY		DATE	TOTAL NUMBER OF CONTAINERS		
SIGNATURE <i>[Signature]</i>		8/2/18	SIGNATURE <i>[Signature]</i>		8/2/18	SAMPLE RECEIPT INFORMATION		
PRINT NAME JIM HANEY			PRINT NAME JIM HANEY			CUSTODY SEALS: <input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A		
COMPANY HCS			COMPANY HCS			GOOD CONDITION <input type="checkbox"/> YES <input type="checkbox"/> NO		
RELINQUISHED BY		DATE	RECEIVED BY		DATE	TEMPERATURE		
SIGNATURE <i>[Signature]</i>		8/2/18	SIGNATURE <i>[Signature]</i>		8/2/18	SHIPMENT METHOD: <input type="checkbox"/> HAND <input type="checkbox"/> OVERNIGHT		
PRINT NAME JIM HANEY			PRINT NAME JIM HANEY			<input type="checkbox"/> COURIER		
COMPANY HCS			COMPANY HCS			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 T.G. & TRODY

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

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		SPECIAL SHIPMENT HANDLING OR STORAGE REQUIREMENTS:	TOTAL NUMBER OF CONTAINERS	
<u>John Haney</u>		8/2/18	<u>John Haney</u>	8/2/18		COOLER NO.: _____ STORAGE LOCATION: _____	12	
PRINT NAME <u>JOHN HANEY</u>		TIME 14:44	PRINT NAME <u>JOHN HANEY</u>	TIME 14:44		See Lab Work Order No. _____ for Other Contract Requirements		
COMPANY			COMPANY					
SIGNATURE		TIME	SIGNATURE	TIME		TURNAROUND TIME:		
						<input type="checkbox"/> 24 HOURS <input type="checkbox"/> 1 WEEK		
PRINT NAME			PRINT NAME			<input type="checkbox"/> 48 HOURS <input type="checkbox"/> STANDARD		
COMPANY			COMPANY			<input checked="" type="checkbox"/> 72 HOURS OTHER _____		

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

Login Sample Receipt Checklist

Client: Hart Crowser, Inc.

Job Number: 590-9053-4

Login Number: 9053

List Number: 1

Creator: Kratz, Sheila J

List Source: TestAmerica Spokane

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

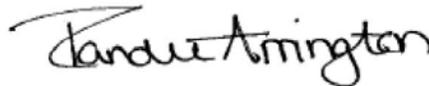
ANALYTICAL REPORT

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

TestAmerica Job ID: 590-9464-1
Client Project/Site: CVSD/15014001

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

Attn: John Haney



Authorized for release by:
10/5/2018 1:58:04 PM

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

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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.

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Case Narrative

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014001

TestAmerica Job ID: 590-9464-1

Job ID: 590-9464-1

Laboratory: TestAmerica Spokane

Narrative

Receipt

The samples were received on 9/26/2018 10:18 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.6° C.

Receipt Exceptions

The following sample was listed on the Chain of Custody (COC); however, no sample was received: TP-41-6 (590-9464-40).

GC/MS Semi VOA

Method 8270D SIM: Due to the high concentration of multiple analytes, the matrix spike / matrix spike duplicate (MS/MSD) for preparation batch 590-19137 and analytical batch 590-19135 could not be evaluated for accuracy and precision. The associated laboratory control sample (LCS) met acceptance criteria.

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

GC Semi VOA

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

Metals

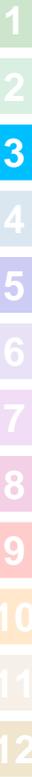
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

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: CVSD/15014001

TestAmerica Job ID: 590-9464-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
590-9464-1	TP-24-6	Solid	09/25/18 09:15	09/26/18 10:18
590-9464-3	TP-25-6	Solid	09/25/18 09:25	09/26/18 10:18
590-9464-5	TP-27-6	Solid	09/25/18 09:40	09/26/18 10:18
590-9464-7	TP-26-6	Solid	09/25/18 09:55	09/26/18 10:18
590-9464-9	TP-30-6	Solid	09/25/18 10:25	09/26/18 10:18
590-9464-11	TP-28-6	Solid	09/25/18 10:30	09/26/18 10:18
590-9464-13	TP-29-6	Solid	09/25/18 10:45	09/26/18 10:18
590-9464-15	TP-31-6	Solid	09/25/18 11:00	09/26/18 10:18
590-9464-17	TP-33-6	Solid	09/25/18 11:25	09/26/18 10:18
590-9464-19	TP-18-18	Solid	09/25/18 11:45	09/26/18 10:18
590-9464-21	TP-32-6	Solid	09/25/18 12:10	09/26/18 10:18
590-9464-23	TP-34-6	Solid	09/25/18 12:20	09/26/18 10:18
590-9464-25	TP-36-6	Solid	09/25/18 12:30	09/26/18 10:18
590-9464-27	TP-38-6	Solid	09/25/18 12:40	09/26/18 10:18
590-9464-29	TP-40-6	Solid	09/25/18 13:00	09/26/18 10:18
590-9464-31	TP-19-18	Solid	09/25/18 13:20	09/26/18 10:18
590-9464-33	TP-37-6	Solid	09/25/18 13:25	09/26/18 10:18
590-9464-35	TP-35-6	Solid	09/25/18 13:30	09/26/18 10:18
590-9464-37	TP-39-6	Solid	09/25/18 13:40	09/26/18 10:18
590-9464-42	TP-20-12	Solid	09/25/18 14:20	09/26/18 10:18
590-9464-45	TP-42-6	Solid	09/25/18 14:30	09/26/18 10:18
590-9464-47	TP-43-6	Solid	09/25/18 14:45	09/26/18 10:18
590-9464-49	SP-1	Solid	09/25/18 15:20	09/26/18 10:18
590-9464-50	SP-2	Solid	09/25/18 15:30	09/26/18 10:18
590-9464-51	SP-3	Solid	09/25/18 15:47	09/26/18 10:18
590-9464-52	SP-4	Solid	09/25/18 15:52	09/26/18 10:18

Definitions/Glossary

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014001

TestAmerica Job ID: 590-9464-1

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
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.

GC Semi VOA

Qualifier	Qualifier Description
F3	Duplicate RPD exceeds the control limit

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: CVSD/15014001

TestAmerica Job ID: 590-9464-1

Client Sample ID: TP-24-6
Date Collected: 09/25/18 09:15
Date Received: 09/26/18 10:18

Lab Sample ID: 590-9464-1
Matrix: Solid
Percent Solids: 97.4

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	22		2.7		mg/Kg	☼	10/01/18 12:25	10/02/18 11:48	1

Client Sample ID: TP-25-6
Date Collected: 09/25/18 09:25
Date Received: 09/26/18 10:18

Lab Sample ID: 590-9464-3
Matrix: Solid
Percent Solids: 96.6

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	110		2.6		mg/Kg	☼	10/01/18 12:25	10/03/18 18:02	1

Client Sample ID: TP-27-6
Date Collected: 09/25/18 09:40
Date Received: 09/26/18 10:18

Lab Sample ID: 590-9464-5
Matrix: Solid
Percent Solids: 97.4

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	170		2.8		mg/Kg	☼	10/01/18 12:25	10/03/18 18:05	1

Client Sample ID: TP-26-6
Date Collected: 09/25/18 09:55
Date Received: 09/26/18 10:18

Lab Sample ID: 590-9464-7
Matrix: Solid
Percent Solids: 97.5

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	74		2.6		mg/Kg	☼	10/01/18 12:25	10/03/18 18:19	1

Client Sample ID: TP-30-6
Date Collected: 09/25/18 10:25
Date Received: 09/26/18 10:18

Lab Sample ID: 590-9464-9
Matrix: Solid
Percent Solids: 92.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		52		ug/Kg	☼	10/01/18 09:55	10/01/18 14:44	5
2-Methylnaphthalene	ND		52		ug/Kg	☼	10/01/18 09:55	10/01/18 14:44	5
1-Methylnaphthalene	ND		52		ug/Kg	☼	10/01/18 09:55	10/01/18 14:44	5
Acenaphthylene	ND		52		ug/Kg	☼	10/01/18 09:55	10/01/18 14:44	5
Acenaphthene	280		52		ug/Kg	☼	10/01/18 09:55	10/01/18 14:44	5
Fluorene	78		52		ug/Kg	☼	10/01/18 09:55	10/01/18 14:44	5
Phenanthrene	1500	F2	52		ug/Kg	☼	10/01/18 09:55	10/01/18 14:44	5
Anthracene	350	F1 F2	52		ug/Kg	☼	10/01/18 09:55	10/01/18 14:44	5
Fluoranthene	3600	F2	52		ug/Kg	☼	10/01/18 09:55	10/01/18 14:44	5
Pyrene	4300	F2	52		ug/Kg	☼	10/01/18 09:55	10/01/18 14:44	5
Benzo[a]anthracene	3000	F2	52		ug/Kg	☼	10/01/18 09:55	10/01/18 14:44	5
Chrysene	3900	F2	52		ug/Kg	☼	10/01/18 09:55	10/01/18 14:44	5
Benzo[b]fluoranthene	5100	F2	52		ug/Kg	☼	10/01/18 09:55	10/01/18 14:44	5
Benzo[k]fluoranthene	1900	F2	52		ug/Kg	☼	10/01/18 09:55	10/01/18 14:44	5
Benzo[a]pyrene	4400	F2	52		ug/Kg	☼	10/01/18 09:55	10/01/18 14:44	5
Indeno[1,2,3-cd]pyrene	2500	F2	52		ug/Kg	☼	10/01/18 09:55	10/01/18 14:44	5
Dibenz[a,h]anthracene	810	F1 F2	52		ug/Kg	☼	10/01/18 09:55	10/01/18 14:44	5
Benzo[g,h,i]perylene	3000	F2	52		ug/Kg	☼	10/01/18 09:55	10/01/18 14:44	5

TestAmerica Spokane

Client Sample Results

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014001

TestAmerica Job ID: 590-9464-1

Client Sample ID: TP-30-6

Date Collected: 09/25/18 10:25

Date Received: 09/26/18 10:18

Lab Sample ID: 590-9464-9

Matrix: Solid

Percent Solids: 92.2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	76		23 - 120	10/01/18 09:55	10/01/18 14:44	5
2-Fluorobiphenyl (Surr)	77		38 - 123	10/01/18 09:55	10/01/18 14:44	5
p-Terphenyl-d14	90		68 - 136	10/01/18 09:55	10/01/18 14:44	5

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	13		1.2		mg/Kg	☼	10/01/18 12:25	10/03/18 18:22	1
Lead	770		2.9		mg/Kg	☼	10/01/18 12:25	10/03/18 18:22	1

Client Sample ID: TP-28-6

Date Collected: 09/25/18 10:30

Date Received: 09/26/18 10:18

Lab Sample ID: 590-9464-11

Matrix: Solid

Percent Solids: 95.3

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	☼	10/01/18 09:55	10/01/18 15:09	1
2-Methylnaphthalene	ND		10		ug/Kg	☼	10/01/18 09:55	10/01/18 15:09	1
1-Methylnaphthalene	ND		10		ug/Kg	☼	10/01/18 09:55	10/01/18 15:09	1
Acenaphthylene	ND		10		ug/Kg	☼	10/01/18 09:55	10/01/18 15:09	1
Acenaphthene	ND		10		ug/Kg	☼	10/01/18 09:55	10/01/18 15:09	1
Fluorene	ND		10		ug/Kg	☼	10/01/18 09:55	10/01/18 15:09	1
Phenanthrene	ND		10		ug/Kg	☼	10/01/18 09:55	10/01/18 15:09	1
Anthracene	ND		10		ug/Kg	☼	10/01/18 09:55	10/01/18 15:09	1
Fluoranthene	25		10		ug/Kg	☼	10/01/18 09:55	10/01/18 15:09	1
Pyrene	28		10		ug/Kg	☼	10/01/18 09:55	10/01/18 15:09	1
Benzo[a]anthracene	18		10		ug/Kg	☼	10/01/18 09:55	10/01/18 15:09	1
Chrysene	26		10		ug/Kg	☼	10/01/18 09:55	10/01/18 15:09	1
Benzo[b]fluoranthene	32		10		ug/Kg	☼	10/01/18 09:55	10/01/18 15:09	1
Benzo[k]fluoranthene	11		10		ug/Kg	☼	10/01/18 09:55	10/01/18 15:09	1
Benzo[a]pyrene	26		10		ug/Kg	☼	10/01/18 09:55	10/01/18 15:09	1
Indeno[1,2,3-cd]pyrene	15		10		ug/Kg	☼	10/01/18 09:55	10/01/18 15:09	1
Dibenz(a,h)anthracene	ND		10		ug/Kg	☼	10/01/18 09:55	10/01/18 15:09	1
Benzo[g,h,i]perylene	19		10		ug/Kg	☼	10/01/18 09:55	10/01/18 15:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	72		23 - 120	10/01/18 09:55	10/01/18 15:09	1
2-Fluorobiphenyl (Surr)	75		38 - 123	10/01/18 09:55	10/01/18 15:09	1
p-Terphenyl-d14	92		68 - 136	10/01/18 09:55	10/01/18 15:09	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	7.1		1.2		mg/Kg	☼	10/01/18 12:25	10/03/18 18:26	1
Lead	33		2.9		mg/Kg	☼	10/01/18 12:25	10/03/18 18:26	1

Client Sample ID: TP-29-6

Date Collected: 09/25/18 10:45

Date Received: 09/26/18 10:18

Lab Sample ID: 590-9464-13

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	☼	10/01/18 09:55	10/01/18 15:34	1

TestAmerica Spokane

Client Sample Results

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014001

TestAmerica Job ID: 590-9464-1

Client Sample ID: TP-29-6

Date Collected: 09/25/18 10:45

Date Received: 09/26/18 10:18

Lab Sample ID: 590-9464-13

Matrix: Solid

Percent Solids: 94.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		10		ug/Kg	☼	10/01/18 09:55	10/01/18 15:34	1
1-Methylnaphthalene	ND		10		ug/Kg	☼	10/01/18 09:55	10/01/18 15:34	1
Acenaphthylene	ND		10		ug/Kg	☼	10/01/18 09:55	10/01/18 15:34	1
Acenaphthene	ND		10		ug/Kg	☼	10/01/18 09:55	10/01/18 15:34	1
Fluorene	ND		10		ug/Kg	☼	10/01/18 09:55	10/01/18 15:34	1
Phenanthrene	41		10		ug/Kg	☼	10/01/18 09:55	10/01/18 15:34	1
Anthracene	11		10		ug/Kg	☼	10/01/18 09:55	10/01/18 15:34	1
Fluoranthene	110		10		ug/Kg	☼	10/01/18 09:55	10/01/18 15:34	1
Pyrene	140		10		ug/Kg	☼	10/01/18 09:55	10/01/18 15:34	1
Benzo[a]anthracene	96		10		ug/Kg	☼	10/01/18 09:55	10/01/18 15:34	1
Chrysene	130		10		ug/Kg	☼	10/01/18 09:55	10/01/18 15:34	1
Benzo[b]fluoranthene	170		10		ug/Kg	☼	10/01/18 09:55	10/01/18 15:34	1
Benzo[k]fluoranthene	61		10		ug/Kg	☼	10/01/18 09:55	10/01/18 15:34	1
Benzo[a]pyrene	140		10		ug/Kg	☼	10/01/18 09:55	10/01/18 15:34	1
Indeno[1,2,3-cd]pyrene	83		10		ug/Kg	☼	10/01/18 09:55	10/01/18 15:34	1
Dibenz(a,h)anthracene	25		10		ug/Kg	☼	10/01/18 09:55	10/01/18 15:34	1
Benzo[g,h,i]perylene	100		10		ug/Kg	☼	10/01/18 09:55	10/01/18 15:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	83		23 - 120	10/01/18 09:55	10/01/18 15:34	1
2-Fluorobiphenyl (Surr)	85		38 - 123	10/01/18 09:55	10/01/18 15:34	1
p-Terphenyl-d14	102		68 - 136	10/01/18 09:55	10/01/18 15:34	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	6.8		1.1		mg/Kg	☼	10/01/18 12:25	10/03/18 18:30	1
Lead	81		2.7		mg/Kg	☼	10/01/18 12:25	10/03/18 18:30	1

Client Sample ID: TP-31-6

Date Collected: 09/25/18 11:00

Date Received: 09/26/18 10:18

Lab Sample ID: 590-9464-15

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		9.9		ug/Kg	☼	10/01/18 09:55	10/01/18 15:59	1
2-Methylnaphthalene	ND		9.9		ug/Kg	☼	10/01/18 09:55	10/01/18 15:59	1
1-Methylnaphthalene	ND		9.9		ug/Kg	☼	10/01/18 09:55	10/01/18 15:59	1
Acenaphthylene	ND		9.9		ug/Kg	☼	10/01/18 09:55	10/01/18 15:59	1
Acenaphthene	ND		9.9		ug/Kg	☼	10/01/18 09:55	10/01/18 15:59	1
Fluorene	ND		9.9		ug/Kg	☼	10/01/18 09:55	10/01/18 15:59	1
Phenanthrene	11		9.9		ug/Kg	☼	10/01/18 09:55	10/01/18 15:59	1
Anthracene	ND		9.9		ug/Kg	☼	10/01/18 09:55	10/01/18 15:59	1
Fluoranthene	30		9.9		ug/Kg	☼	10/01/18 09:55	10/01/18 15:59	1
Pyrene	35		9.9		ug/Kg	☼	10/01/18 09:55	10/01/18 15:59	1
Benzo[a]anthracene	22		9.9		ug/Kg	☼	10/01/18 09:55	10/01/18 15:59	1
Chrysene	31		9.9		ug/Kg	☼	10/01/18 09:55	10/01/18 15:59	1
Benzo[b]fluoranthene	41		9.9		ug/Kg	☼	10/01/18 09:55	10/01/18 15:59	1
Benzo[k]fluoranthene	15		9.9		ug/Kg	☼	10/01/18 09:55	10/01/18 15:59	1
Benzo[a]pyrene	34		9.9		ug/Kg	☼	10/01/18 09:55	10/01/18 15:59	1
Indeno[1,2,3-cd]pyrene	20		9.9		ug/Kg	☼	10/01/18 09:55	10/01/18 15:59	1

TestAmerica Spokane

Client Sample Results

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014001

TestAmerica Job ID: 590-9464-1

Client Sample ID: TP-31-6

Lab Sample ID: 590-9464-15

Date Collected: 09/25/18 11:00

Matrix: Solid

Date Received: 09/26/18 10:18

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	ND		9.9		ug/Kg	☼	10/01/18 09:55	10/01/18 15:59	1
Benzo[g,h,i]perylene	25		9.9		ug/Kg	☼	10/01/18 09:55	10/01/18 15:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	80		23 - 120				10/01/18 09:55	10/01/18 15:59	1
2-Fluorobiphenyl (Surr)	84		38 - 123				10/01/18 09:55	10/01/18 15:59	1
p-Terphenyl-d14	97		68 - 136				10/01/18 09:55	10/01/18 15:59	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	8.0		1.2		mg/Kg	☼	10/01/18 12:25	10/03/18 18:33	1
Lead	270		2.8		mg/Kg	☼	10/01/18 12:25	10/03/18 18:33	1

Client Sample ID: TP-33-6

Lab Sample ID: 590-9464-17

Date Collected: 09/25/18 11:25

Matrix: Solid

Date Received: 09/26/18 10:18

Percent Solids: 93.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		1000		ug/Kg	☼	10/01/18 09:55	10/01/18 16:23	100
2-Methylnaphthalene	ND		1000		ug/Kg	☼	10/01/18 09:55	10/01/18 16:23	100
1-Methylnaphthalene	ND		1000		ug/Kg	☼	10/01/18 09:55	10/01/18 16:23	100
Acenaphthylene	ND		1000		ug/Kg	☼	10/01/18 09:55	10/01/18 16:23	100
Acenaphthene	ND		1000		ug/Kg	☼	10/01/18 09:55	10/01/18 16:23	100
Fluorene	ND		1000		ug/Kg	☼	10/01/18 09:55	10/01/18 16:23	100
Phenanthrene	1700		1000		ug/Kg	☼	10/01/18 09:55	10/01/18 16:23	100
Anthracene	ND		1000		ug/Kg	☼	10/01/18 09:55	10/01/18 16:23	100
Fluoranthene	1400		1000		ug/Kg	☼	10/01/18 09:55	10/01/18 16:23	100
Pyrene	8600		1000		ug/Kg	☼	10/01/18 09:55	10/01/18 16:23	100
Benzo[a]anthracene	8100		1000		ug/Kg	☼	10/01/18 09:55	10/01/18 16:23	100
Chrysene	12000		1000		ug/Kg	☼	10/01/18 09:55	10/01/18 16:23	100
Benzo[b]fluoranthene	4100		1000		ug/Kg	☼	10/01/18 09:55	10/01/18 16:23	100
Benzo[k]fluoranthene	ND		1000		ug/Kg	☼	10/01/18 09:55	10/01/18 16:23	100
Benzo[a]pyrene	12000		1000		ug/Kg	☼	10/01/18 09:55	10/01/18 16:23	100
Indeno[1,2,3-cd]pyrene	1700		1000		ug/Kg	☼	10/01/18 09:55	10/01/18 16:23	100
Dibenz(a,h)anthracene	1500		1000		ug/Kg	☼	10/01/18 09:55	10/01/18 16:23	100
Benzo[g,h,i]perylene	6500		1000		ug/Kg	☼	10/01/18 09:55	10/01/18 16:23	100
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	81		23 - 120				10/01/18 09:55	10/01/18 16:23	100
2-Fluorobiphenyl (Surr)	75		38 - 123				10/01/18 09:55	10/01/18 16:23	100
p-Terphenyl-d14	88		68 - 136				10/01/18 09:55	10/01/18 16:23	100

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	10		1.2		mg/Kg	☼	10/01/18 12:25	10/03/18 18:37	1
Lead	400		2.8		mg/Kg	☼	10/01/18 12:25	10/03/18 18:37	1

TestAmerica Spokane

Client Sample Results

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014001

TestAmerica Job ID: 590-9464-1

Client Sample ID: TP-18-18

Lab Sample ID: 590-9464-19

Date Collected: 09/25/18 11:45

Matrix: Solid

Date Received: 09/26/18 10:18

Percent Solids: 95.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		9.9		ug/Kg	☼	10/01/18 09:55	10/01/18 16:48	1
2-Methylnaphthalene	ND		9.9		ug/Kg	☼	10/01/18 09:55	10/01/18 16:48	1
1-Methylnaphthalene	ND		9.9		ug/Kg	☼	10/01/18 09:55	10/01/18 16:48	1
Acenaphthylene	ND		9.9		ug/Kg	☼	10/01/18 09:55	10/01/18 16:48	1
Acenaphthene	ND		9.9		ug/Kg	☼	10/01/18 09:55	10/01/18 16:48	1
Fluorene	ND		9.9		ug/Kg	☼	10/01/18 09:55	10/01/18 16:48	1
Phenanthrene	ND		9.9		ug/Kg	☼	10/01/18 09:55	10/01/18 16:48	1
Anthracene	ND		9.9		ug/Kg	☼	10/01/18 09:55	10/01/18 16:48	1
Fluoranthene	ND		9.9		ug/Kg	☼	10/01/18 09:55	10/01/18 16:48	1
Pyrene	10		9.9		ug/Kg	☼	10/01/18 09:55	10/01/18 16:48	1
Benzo[a]anthracene	ND		9.9		ug/Kg	☼	10/01/18 09:55	10/01/18 16:48	1
Chrysene	ND		9.9		ug/Kg	☼	10/01/18 09:55	10/01/18 16:48	1
Benzo[b]fluoranthene	13		9.9		ug/Kg	☼	10/01/18 09:55	10/01/18 16:48	1
Benzo[k]fluoranthene	ND		9.9		ug/Kg	☼	10/01/18 09:55	10/01/18 16:48	1
Benzo[a]pyrene	10		9.9		ug/Kg	☼	10/01/18 09:55	10/01/18 16:48	1
Indeno[1,2,3-cd]pyrene	ND		9.9		ug/Kg	☼	10/01/18 09:55	10/01/18 16:48	1
Dibenz(a,h)anthracene	ND		9.9		ug/Kg	☼	10/01/18 09:55	10/01/18 16:48	1
Benzo[g,h,i]perylene	ND		9.9		ug/Kg	☼	10/01/18 09:55	10/01/18 16:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	81		23 - 120	10/01/18 09:55	10/01/18 16:48	1
2-Fluorobiphenyl (Surr)	76		38 - 123	10/01/18 09:55	10/01/18 16:48	1
p-Terphenyl-d14	99		68 - 136	10/01/18 09:55	10/01/18 16:48	1

Client Sample ID: TP-32-6

Lab Sample ID: 590-9464-21

Date Collected: 09/25/18 12:10

Matrix: Solid

Date Received: 09/26/18 10:18

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		54		ug/Kg	☼	10/01/18 09:55	10/01/18 17:13	5
2-Methylnaphthalene	ND		54		ug/Kg	☼	10/01/18 09:55	10/01/18 17:13	5
1-Methylnaphthalene	ND		54		ug/Kg	☼	10/01/18 09:55	10/01/18 17:13	5
Acenaphthylene	ND		54		ug/Kg	☼	10/01/18 09:55	10/01/18 17:13	5
Acenaphthene	250		54		ug/Kg	☼	10/01/18 09:55	10/01/18 17:13	5
Fluorene	68		54		ug/Kg	☼	10/01/18 09:55	10/01/18 17:13	5
Phenanthrene	1300		54		ug/Kg	☼	10/01/18 09:55	10/01/18 17:13	5
Anthracene	330		54		ug/Kg	☼	10/01/18 09:55	10/01/18 17:13	5
Fluoranthene	3300		54		ug/Kg	☼	10/01/18 09:55	10/01/18 17:13	5
Pyrene	3900		54		ug/Kg	☼	10/01/18 09:55	10/01/18 17:13	5
Benzo[a]anthracene	2600		54		ug/Kg	☼	10/01/18 09:55	10/01/18 17:13	5
Chrysene	3300		54		ug/Kg	☼	10/01/18 09:55	10/01/18 17:13	5
Benzo[b]fluoranthene	4300		54		ug/Kg	☼	10/01/18 09:55	10/01/18 17:13	5
Benzo[k]fluoranthene	1900		54		ug/Kg	☼	10/01/18 09:55	10/01/18 17:13	5
Benzo[a]pyrene	4100		54		ug/Kg	☼	10/01/18 09:55	10/01/18 17:13	5
Indeno[1,2,3-cd]pyrene	2300		54		ug/Kg	☼	10/01/18 09:55	10/01/18 17:13	5
Dibenz(a,h)anthracene	750		54		ug/Kg	☼	10/01/18 09:55	10/01/18 17:13	5
Benzo[g,h,i]perylene	2700		54		ug/Kg	☼	10/01/18 09:55	10/01/18 17:13	5

TestAmerica Spokane

Client Sample Results

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014001

TestAmerica Job ID: 590-9464-1

Client Sample ID: TP-32-6

Date Collected: 09/25/18 12:10

Date Received: 09/26/18 10:18

Lab Sample ID: 590-9464-21

Matrix: Solid

Percent Solids: 92.5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	71		23 - 120	10/01/18 09:55	10/01/18 17:13	5
2-Fluorobiphenyl (Surr)	75		38 - 123	10/01/18 09:55	10/01/18 17:13	5
p-Terphenyl-d14	82		68 - 136	10/01/18 09:55	10/01/18 17:13	5

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	11		1.2		mg/Kg	☼	10/01/18 12:25	10/03/18 18:41	1
Lead	650		2.9		mg/Kg	☼	10/01/18 12:25	10/03/18 18:41	1

Client Sample ID: TP-34-6

Date Collected: 09/25/18 12:20

Date Received: 09/26/18 10:18

Lab Sample ID: 590-9464-23

Matrix: Solid

Percent Solids: 93.8

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	☼	10/01/18 09:55	10/01/18 17:38	1
2-Methylnaphthalene	ND		10		ug/Kg	☼	10/01/18 09:55	10/01/18 17:38	1
1-Methylnaphthalene	ND		10		ug/Kg	☼	10/01/18 09:55	10/01/18 17:38	1
Acenaphthylene	ND		10		ug/Kg	☼	10/01/18 09:55	10/01/18 17:38	1
Acenaphthene	34		10		ug/Kg	☼	10/01/18 09:55	10/01/18 17:38	1
Fluorene	ND		10		ug/Kg	☼	10/01/18 09:55	10/01/18 17:38	1
Phenanthrene	180		10		ug/Kg	☼	10/01/18 09:55	10/01/18 17:38	1
Anthracene	44		10		ug/Kg	☼	10/01/18 09:55	10/01/18 17:38	1
Fluoranthene	470		10		ug/Kg	☼	10/01/18 09:55	10/01/18 17:38	1
Pyrene	590		10		ug/Kg	☼	10/01/18 09:55	10/01/18 17:38	1
Benzo[a]anthracene	380		10		ug/Kg	☼	10/01/18 09:55	10/01/18 17:38	1
Chrysene	500		10		ug/Kg	☼	10/01/18 09:55	10/01/18 17:38	1
Benzo[b]fluoranthene	590		10		ug/Kg	☼	10/01/18 09:55	10/01/18 17:38	1
Benzo[k]fluoranthene	270		10		ug/Kg	☼	10/01/18 09:55	10/01/18 17:38	1
Benzo[a]pyrene	550		10		ug/Kg	☼	10/01/18 09:55	10/01/18 17:38	1
Indeno[1,2,3-cd]pyrene	300		10		ug/Kg	☼	10/01/18 09:55	10/01/18 17:38	1
Dibenz[a,h]anthracene	99		10		ug/Kg	☼	10/01/18 09:55	10/01/18 17:38	1
Benzo[g,h,i]perylene	370		10		ug/Kg	☼	10/01/18 09:55	10/01/18 17:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	83		23 - 120	10/01/18 09:55	10/01/18 17:38	1
2-Fluorobiphenyl (Surr)	86		38 - 123	10/01/18 09:55	10/01/18 17:38	1
p-Terphenyl-d14	106		68 - 136	10/01/18 09:55	10/01/18 17:38	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	7.4		1.1		mg/Kg	☼	10/01/18 12:25	10/03/18 18:45	1
Lead	81		2.7		mg/Kg	☼	10/01/18 12:25	10/03/18 18:45	1

Client Sample ID: TP-36-6

Date Collected: 09/25/18 12:30

Date Received: 09/26/18 10:18

Lab Sample ID: 590-9464-25

Matrix: Solid

Percent Solids: 94.3

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	☼	10/01/18 09:55	10/01/18 18:03	1

TestAmerica Spokane

Client Sample Results

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014001

TestAmerica Job ID: 590-9464-1

Client Sample ID: TP-36-6

Lab Sample ID: 590-9464-25

Date Collected: 09/25/18 12:30

Matrix: Solid

Date Received: 09/26/18 10:18

Percent Solids: 94.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		10		ug/Kg	☼	10/01/18 09:55	10/01/18 18:03	1
1-Methylnaphthalene	ND		10		ug/Kg	☼	10/01/18 09:55	10/01/18 18:03	1
Acenaphthylene	ND		10		ug/Kg	☼	10/01/18 09:55	10/01/18 18:03	1
Acenaphthene	ND		10		ug/Kg	☼	10/01/18 09:55	10/01/18 18:03	1
Fluorene	ND		10		ug/Kg	☼	10/01/18 09:55	10/01/18 18:03	1
Phenanthrene	ND		10		ug/Kg	☼	10/01/18 09:55	10/01/18 18:03	1
Anthracene	ND		10		ug/Kg	☼	10/01/18 09:55	10/01/18 18:03	1
Fluoranthene	26		10		ug/Kg	☼	10/01/18 09:55	10/01/18 18:03	1
Pyrene	31		10		ug/Kg	☼	10/01/18 09:55	10/01/18 18:03	1
Benzo[a]anthracene	20		10		ug/Kg	☼	10/01/18 09:55	10/01/18 18:03	1
Chrysene	29		10		ug/Kg	☼	10/01/18 09:55	10/01/18 18:03	1
Benzo[b]fluoranthene	33		10		ug/Kg	☼	10/01/18 09:55	10/01/18 18:03	1
Benzo[k]fluoranthene	14		10		ug/Kg	☼	10/01/18 09:55	10/01/18 18:03	1
Benzo[a]pyrene	30		10		ug/Kg	☼	10/01/18 09:55	10/01/18 18:03	1
Indeno[1,2,3-cd]pyrene	16		10		ug/Kg	☼	10/01/18 09:55	10/01/18 18:03	1
Dibenz(a,h)anthracene	ND		10		ug/Kg	☼	10/01/18 09:55	10/01/18 18:03	1
Benzo[g,h,i]perylene	20		10		ug/Kg	☼	10/01/18 09:55	10/01/18 18:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	76		23 - 120	10/01/18 09:55	10/01/18 18:03	1
2-Fluorobiphenyl (Surr)	77		38 - 123	10/01/18 09:55	10/01/18 18:03	1
p-Terphenyl-d14	94		68 - 136	10/01/18 09:55	10/01/18 18:03	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	6.0		1.2		mg/Kg	☼	10/01/18 12:25	10/03/18 18:48	1
Lead	28		2.8		mg/Kg	☼	10/01/18 12:25	10/03/18 18:48	1

Client Sample ID: TP-38-6

Lab Sample ID: 590-9464-27

Date Collected: 09/25/18 12:40

Matrix: Solid

Date Received: 09/26/18 10:18

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	☼	10/01/18 09:55	10/01/18 18:27	1
2-Methylnaphthalene	ND		10		ug/Kg	☼	10/01/18 09:55	10/01/18 18:27	1
1-Methylnaphthalene	ND		10		ug/Kg	☼	10/01/18 09:55	10/01/18 18:27	1
Acenaphthylene	ND		10		ug/Kg	☼	10/01/18 09:55	10/01/18 18:27	1
Acenaphthene	ND		10		ug/Kg	☼	10/01/18 09:55	10/01/18 18:27	1
Fluorene	ND		10		ug/Kg	☼	10/01/18 09:55	10/01/18 18:27	1
Phenanthrene	17		10		ug/Kg	☼	10/01/18 09:55	10/01/18 18:27	1
Anthracene	ND		10		ug/Kg	☼	10/01/18 09:55	10/01/18 18:27	1
Fluoranthene	43		10		ug/Kg	☼	10/01/18 09:55	10/01/18 18:27	1
Pyrene	53		10		ug/Kg	☼	10/01/18 09:55	10/01/18 18:27	1
Benzo[a]anthracene	33		10		ug/Kg	☼	10/01/18 09:55	10/01/18 18:27	1
Chrysene	44		10		ug/Kg	☼	10/01/18 09:55	10/01/18 18:27	1
Benzo[b]fluoranthene	55		10		ug/Kg	☼	10/01/18 09:55	10/01/18 18:27	1
Benzo[k]fluoranthene	19		10		ug/Kg	☼	10/01/18 09:55	10/01/18 18:27	1
Benzo[a]pyrene	47		10		ug/Kg	☼	10/01/18 09:55	10/01/18 18:27	1
Indeno[1,2,3-cd]pyrene	24		10		ug/Kg	☼	10/01/18 09:55	10/01/18 18:27	1

TestAmerica Spokane

Client Sample Results

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014001

TestAmerica Job ID: 590-9464-1

Client Sample ID: TP-38-6

Date Collected: 09/25/18 12:40

Date Received: 09/26/18 10:18

Lab Sample ID: 590-9464-27

Matrix: Solid

Percent Solids: 94.5

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	ND		10		ug/Kg	☼	10/01/18 09:55	10/01/18 18:27	1
Benzo[g,h,i]perylene	30		10		ug/Kg	☼	10/01/18 09:55	10/01/18 18:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	71		23 - 120				10/01/18 09:55	10/01/18 18:27	1
2-Fluorobiphenyl (Surr)	69		38 - 123				10/01/18 09:55	10/01/18 18:27	1
p-Terphenyl-d14	89		68 - 136				10/01/18 09:55	10/01/18 18:27	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	7.8		1.1		mg/Kg	☼	10/01/18 12:25	10/03/18 18:52	1
Lead	27		2.6		mg/Kg	☼	10/01/18 12:25	10/03/18 18:52	1

Client Sample ID: TP-40-6

Date Collected: 09/25/18 13:00

Date Received: 09/26/18 10:18

Lab Sample ID: 590-9464-29

Matrix: Solid

Percent Solids: 94.2

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	☼	10/01/18 09:55	10/01/18 18:52	1
2-Methylnaphthalene	ND		10		ug/Kg	☼	10/01/18 09:55	10/01/18 18:52	1
1-Methylnaphthalene	ND		10		ug/Kg	☼	10/01/18 09:55	10/01/18 18:52	1
Acenaphthylene	ND		10		ug/Kg	☼	10/01/18 09:55	10/01/18 18:52	1
Acenaphthene	ND		10		ug/Kg	☼	10/01/18 09:55	10/01/18 18:52	1
Fluorene	ND		10		ug/Kg	☼	10/01/18 09:55	10/01/18 18:52	1
Phenanthrene	ND		10		ug/Kg	☼	10/01/18 09:55	10/01/18 18:52	1
Anthracene	ND		10		ug/Kg	☼	10/01/18 09:55	10/01/18 18:52	1
Fluoranthene	ND		10		ug/Kg	☼	10/01/18 09:55	10/01/18 18:52	1
Pyrene	ND		10		ug/Kg	☼	10/01/18 09:55	10/01/18 18:52	1
Benzo[a]anthracene	ND		10		ug/Kg	☼	10/01/18 09:55	10/01/18 18:52	1
Chrysene	ND		10		ug/Kg	☼	10/01/18 09:55	10/01/18 18:52	1
Benzo[b]fluoranthene	ND		10		ug/Kg	☼	10/01/18 09:55	10/01/18 18:52	1
Benzo[k]fluoranthene	ND		10		ug/Kg	☼	10/01/18 09:55	10/01/18 18:52	1
Benzo[a]pyrene	ND		10		ug/Kg	☼	10/01/18 09:55	10/01/18 18:52	1
Indeno[1,2,3-cd]pyrene	ND		10		ug/Kg	☼	10/01/18 09:55	10/01/18 18:52	1
Dibenz(a,h)anthracene	ND		10		ug/Kg	☼	10/01/18 09:55	10/01/18 18:52	1
Benzo[g,h,i]perylene	ND		10		ug/Kg	☼	10/01/18 09:55	10/01/18 18:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	80		23 - 120				10/01/18 09:55	10/01/18 18:52	1
2-Fluorobiphenyl (Surr)	84		38 - 123				10/01/18 09:55	10/01/18 18:52	1
p-Terphenyl-d14	99		68 - 136				10/01/18 09:55	10/01/18 18:52	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	7.7		1.2		mg/Kg	☼	10/01/18 12:25	10/03/18 19:05	1
Lead	13		2.8		mg/Kg	☼	10/01/18 12:25	10/03/18 19:05	1

TestAmerica Spokane

Client Sample Results

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014001

TestAmerica Job ID: 590-9464-1

Client Sample ID: TP-19-18

Lab Sample ID: 590-9464-31

Date Collected: 09/25/18 13:20

Matrix: Solid

Date Received: 09/26/18 10:18

Percent Solids: 92.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		21		ug/Kg	☼	10/01/18 09:55	10/01/18 19:17	2
2-Methylnaphthalene	ND		21		ug/Kg	☼	10/01/18 09:55	10/01/18 19:17	2
1-Methylnaphthalene	ND		21		ug/Kg	☼	10/01/18 09:55	10/01/18 19:17	2
Acenaphthylene	ND		21		ug/Kg	☼	10/01/18 09:55	10/01/18 19:17	2
Acenaphthene	74		21		ug/Kg	☼	10/01/18 09:55	10/01/18 19:17	2
Fluorene	ND		21		ug/Kg	☼	10/01/18 09:55	10/01/18 19:17	2
Phenanthrene	340		21		ug/Kg	☼	10/01/18 09:55	10/01/18 19:17	2
Anthracene	92		21		ug/Kg	☼	10/01/18 09:55	10/01/18 19:17	2
Fluoranthene	1100		21		ug/Kg	☼	10/01/18 09:55	10/01/18 19:17	2
Pyrene	1200		21		ug/Kg	☼	10/01/18 09:55	10/01/18 19:17	2
Benzo[a]anthracene	860		21		ug/Kg	☼	10/01/18 09:55	10/01/18 19:17	2
Chrysene	1100		21		ug/Kg	☼	10/01/18 09:55	10/01/18 19:17	2
Benzo[b]fluoranthene	1400		21		ug/Kg	☼	10/01/18 09:55	10/01/18 19:17	2
Benzo[k]fluoranthene	570		21		ug/Kg	☼	10/01/18 09:55	10/01/18 19:17	2
Benzo[a]pyrene	1300		21		ug/Kg	☼	10/01/18 09:55	10/01/18 19:17	2
Indeno[1,2,3-cd]pyrene	690		21		ug/Kg	☼	10/01/18 09:55	10/01/18 19:17	2
Dibenz(a,h)anthracene	220		21		ug/Kg	☼	10/01/18 09:55	10/01/18 19:17	2
Benzo[g,h,i]perylene	790		21		ug/Kg	☼	10/01/18 09:55	10/01/18 19:17	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	80		23 - 120	10/01/18 09:55	10/01/18 19:17	2
2-Fluorobiphenyl (Surr)	80		38 - 123	10/01/18 09:55	10/01/18 19:17	2
p-Terphenyl-d14	89		68 - 136	10/01/18 09:55	10/01/18 19:17	2

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	8.6		1.1		mg/Kg	☼	10/01/18 12:25	10/03/18 19:09	1
Lead	150		2.6		mg/Kg	☼	10/01/18 12:25	10/03/18 19:09	1

Client Sample ID: TP-37-6

Lab Sample ID: 590-9464-33

Date Collected: 09/25/18 13:25

Matrix: Solid

Date Received: 09/26/18 10:18

Percent Solids: 90.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		53		ug/Kg	☼	10/01/18 09:55	10/01/18 19:42	5
2-Methylnaphthalene	ND		53		ug/Kg	☼	10/01/18 09:55	10/01/18 19:42	5
1-Methylnaphthalene	ND		53		ug/Kg	☼	10/01/18 09:55	10/01/18 19:42	5
Acenaphthylene	ND		53		ug/Kg	☼	10/01/18 09:55	10/01/18 19:42	5
Acenaphthene	350		53		ug/Kg	☼	10/01/18 09:55	10/01/18 19:42	5
Fluorene	91		53		ug/Kg	☼	10/01/18 09:55	10/01/18 19:42	5
Phenanthrene	1700		53		ug/Kg	☼	10/01/18 09:55	10/01/18 19:42	5
Anthracene	420		53		ug/Kg	☼	10/01/18 09:55	10/01/18 19:42	5
Fluoranthene	4200		53		ug/Kg	☼	10/01/18 09:55	10/01/18 19:42	5
Pyrene	4800		53		ug/Kg	☼	10/01/18 09:55	10/01/18 19:42	5
Benzo[a]anthracene	3400		53		ug/Kg	☼	10/01/18 09:55	10/01/18 19:42	5
Chrysene	4500		53		ug/Kg	☼	10/01/18 09:55	10/01/18 19:42	5
Benzo[b]fluoranthene	5200		53		ug/Kg	☼	10/01/18 09:55	10/01/18 19:42	5
Benzo[k]fluoranthene	2100		53		ug/Kg	☼	10/01/18 09:55	10/01/18 19:42	5
Benzo[a]pyrene	5200		53		ug/Kg	☼	10/01/18 09:55	10/01/18 19:42	5

TestAmerica Spokane

Client Sample Results

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014001

TestAmerica Job ID: 590-9464-1

Client Sample ID: TP-37-6

Lab Sample ID: 590-9464-33

Date Collected: 09/25/18 13:25

Matrix: Solid

Date Received: 09/26/18 10:18

Percent Solids: 90.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	2800		53		ug/Kg	☼	10/01/18 09:55	10/01/18 19:42	5
Dibenz(a,h)anthracene	920		53		ug/Kg	☼	10/01/18 09:55	10/01/18 19:42	5
Benzo[g,h,i]perylene	3300		53		ug/Kg	☼	10/01/18 09:55	10/01/18 19:42	5
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	79		23 - 120				10/01/18 09:55	10/01/18 19:42	5
2-Fluorobiphenyl (Surr)	81		38 - 123				10/01/18 09:55	10/01/18 19:42	5
p-Terphenyl-d14	89		68 - 136				10/01/18 09:55	10/01/18 19:42	5

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	21		1.1		mg/Kg	☼	10/03/18 16:39	10/04/18 16:37	1
Lead	1500		2.7		mg/Kg	☼	10/03/18 16:39	10/04/18 16:37	1

Client Sample ID: TP-35-6

Lab Sample ID: 590-9464-35

Date Collected: 09/25/18 13:30

Matrix: Solid

Date Received: 09/26/18 10:18

Percent Solids: 90.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		54		ug/Kg	☼	10/01/18 09:55	10/01/18 20:07	5
2-Methylnaphthalene	ND		54		ug/Kg	☼	10/01/18 09:55	10/01/18 20:07	5
1-Methylnaphthalene	ND		54		ug/Kg	☼	10/01/18 09:55	10/01/18 20:07	5
Acenaphthylene	ND		54		ug/Kg	☼	10/01/18 09:55	10/01/18 20:07	5
Acenaphthene	230		54		ug/Kg	☼	10/01/18 09:55	10/01/18 20:07	5
Fluorene	70		54		ug/Kg	☼	10/01/18 09:55	10/01/18 20:07	5
Phenanthrene	1400		54		ug/Kg	☼	10/01/18 09:55	10/01/18 20:07	5
Anthracene	340		54		ug/Kg	☼	10/01/18 09:55	10/01/18 20:07	5
Fluoranthene	3300		54		ug/Kg	☼	10/01/18 09:55	10/01/18 20:07	5
Pyrene	3700		54		ug/Kg	☼	10/01/18 09:55	10/01/18 20:07	5
Benzo[a]anthracene	2700		54		ug/Kg	☼	10/01/18 09:55	10/01/18 20:07	5
Chrysene	3600		54		ug/Kg	☼	10/01/18 09:55	10/01/18 20:07	5
Benzo[b]fluoranthene	4300		54		ug/Kg	☼	10/01/18 09:55	10/01/18 20:07	5
Benzo[k]fluoranthene	1600		54		ug/Kg	☼	10/01/18 09:55	10/01/18 20:07	5
Benzo[a]pyrene	4100		54		ug/Kg	☼	10/01/18 09:55	10/01/18 20:07	5
Indeno[1,2,3-cd]pyrene	2200		54		ug/Kg	☼	10/01/18 09:55	10/01/18 20:07	5
Dibenz(a,h)anthracene	730		54		ug/Kg	☼	10/01/18 09:55	10/01/18 20:07	5
Benzo[g,h,i]perylene	2600		54		ug/Kg	☼	10/01/18 09:55	10/01/18 20:07	5
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	72		23 - 120				10/01/18 09:55	10/01/18 20:07	5
2-Fluorobiphenyl (Surr)	75		38 - 123				10/01/18 09:55	10/01/18 20:07	5
p-Terphenyl-d14	86		68 - 136				10/01/18 09:55	10/01/18 20:07	5

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	22		1.2		mg/Kg	☼	10/03/18 16:39	10/04/18 16:41	1
Lead	1700		2.8		mg/Kg	☼	10/03/18 16:39	10/04/18 16:41	1

TestAmerica Spokane

Client Sample Results

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014001

TestAmerica Job ID: 590-9464-1

Client Sample ID: TP-39-6

Lab Sample ID: 590-9464-37

Date Collected: 09/25/18 13:40

Matrix: Solid

Date Received: 09/26/18 10:18

Percent Solids: 89.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		110		ug/Kg	☼	10/01/18 09:55	10/01/18 20:31	10
2-Methylnaphthalene	ND		110		ug/Kg	☼	10/01/18 09:55	10/01/18 20:31	10
1-Methylnaphthalene	ND		110		ug/Kg	☼	10/01/18 09:55	10/01/18 20:31	10
Acenaphthylene	ND		110		ug/Kg	☼	10/01/18 09:55	10/01/18 20:31	10
Acenaphthene	820		110		ug/Kg	☼	10/01/18 09:55	10/01/18 20:31	10
Fluorene	250		110		ug/Kg	☼	10/01/18 09:55	10/01/18 20:31	10
Phenanthrene	4200		110		ug/Kg	☼	10/01/18 09:55	10/01/18 20:31	10
Anthracene	1100		110		ug/Kg	☼	10/01/18 09:55	10/01/18 20:31	10
Fluoranthene	10000		110		ug/Kg	☼	10/01/18 09:55	10/01/18 20:31	10
Pyrene	11000		110		ug/Kg	☼	10/01/18 09:55	10/01/18 20:31	10
Benzo[a]anthracene	7800		110		ug/Kg	☼	10/01/18 09:55	10/01/18 20:31	10
Chrysene	9800		110		ug/Kg	☼	10/01/18 09:55	10/01/18 20:31	10
Benzo[b]fluoranthene	14000		110		ug/Kg	☼	10/01/18 09:55	10/01/18 20:31	10
Benzo[k]fluoranthene	5100		110		ug/Kg	☼	10/01/18 09:55	10/01/18 20:31	10
Benzo[a]pyrene	12000		110		ug/Kg	☼	10/01/18 09:55	10/01/18 20:31	10
Indeno[1,2,3-cd]pyrene	6300		110		ug/Kg	☼	10/01/18 09:55	10/01/18 20:31	10
Dibenz(a,h)anthracene	2100		110		ug/Kg	☼	10/01/18 09:55	10/01/18 20:31	10
Benzo[g,h,i]perylene	7500		110		ug/Kg	☼	10/01/18 09:55	10/01/18 20:31	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	72		23 - 120	10/01/18 09:55	10/01/18 20:31	10
2-Fluorobiphenyl (Surr)	73		38 - 123	10/01/18 09:55	10/01/18 20:31	10
p-Terphenyl-d14	83		68 - 136	10/01/18 09:55	10/01/18 20:31	10

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	19		1.2		mg/Kg	☼	10/03/18 16:39	10/04/18 16:45	1
Lead	1700		2.9		mg/Kg	☼	10/03/18 16:39	10/04/18 16:45	1

Client Sample ID: TP-20-12

Lab Sample ID: 590-9464-42

Date Collected: 09/25/18 14:20

Matrix: Solid

Date Received: 09/26/18 10:18

Percent Solids: 96.4

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	☼	10/01/18 09:55	10/01/18 20:57	1
2-Methylnaphthalene	ND		10		ug/Kg	☼	10/01/18 09:55	10/01/18 20:57	1
1-Methylnaphthalene	ND		10		ug/Kg	☼	10/01/18 09:55	10/01/18 20:57	1
Acenaphthylene	ND		10		ug/Kg	☼	10/01/18 09:55	10/01/18 20:57	1
Acenaphthene	ND		10		ug/Kg	☼	10/01/18 09:55	10/01/18 20:57	1
Fluorene	ND		10		ug/Kg	☼	10/01/18 09:55	10/01/18 20:57	1
Phenanthrene	ND		10		ug/Kg	☼	10/01/18 09:55	10/01/18 20:57	1
Anthracene	ND		10		ug/Kg	☼	10/01/18 09:55	10/01/18 20:57	1
Fluoranthene	ND		10		ug/Kg	☼	10/01/18 09:55	10/01/18 20:57	1
Pyrene	ND		10		ug/Kg	☼	10/01/18 09:55	10/01/18 20:57	1
Benzo[a]anthracene	ND		10		ug/Kg	☼	10/01/18 09:55	10/01/18 20:57	1
Chrysene	ND		10		ug/Kg	☼	10/01/18 09:55	10/01/18 20:57	1
Benzo[b]fluoranthene	ND		10		ug/Kg	☼	10/01/18 09:55	10/01/18 20:57	1
Benzo[k]fluoranthene	ND		10		ug/Kg	☼	10/01/18 09:55	10/01/18 20:57	1
Benzo[a]pyrene	ND		10		ug/Kg	☼	10/01/18 09:55	10/01/18 20:57	1

TestAmerica Spokane

Client Sample Results

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014001

TestAmerica Job ID: 590-9464-1

Client Sample ID: TP-20-12

Lab Sample ID: 590-9464-42

Date Collected: 09/25/18 14:20

Matrix: Solid

Date Received: 09/26/18 10:18

Percent Solids: 96.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	ND		10		ug/Kg	☼	10/01/18 09:55	10/01/18 20:57	1
Dibenz(a,h)anthracene	ND		10		ug/Kg	☼	10/01/18 09:55	10/01/18 20:57	1
Benzo[g,h,i]perylene	ND		10		ug/Kg	☼	10/01/18 09:55	10/01/18 20:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	76		23 - 120				10/01/18 09:55	10/01/18 20:57	1
2-Fluorobiphenyl (Surr)	81		38 - 123				10/01/18 09:55	10/01/18 20:57	1
p-Terphenyl-d14	93		68 - 136				10/01/18 09:55	10/01/18 20:57	1

Client Sample ID: TP-42-6

Lab Sample ID: 590-9464-45

Date Collected: 09/25/18 14:30

Matrix: Solid

Date Received: 09/26/18 10:18

Percent Solids: 95.1

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	☼	10/01/18 09:55	10/01/18 21:21	1
2-Methylnaphthalene	ND		10		ug/Kg	☼	10/01/18 09:55	10/01/18 21:21	1
1-Methylnaphthalene	ND		10		ug/Kg	☼	10/01/18 09:55	10/01/18 21:21	1
Acenaphthylene	ND		10		ug/Kg	☼	10/01/18 09:55	10/01/18 21:21	1
Acenaphthene	ND		10		ug/Kg	☼	10/01/18 09:55	10/01/18 21:21	1
Fluorene	ND		10		ug/Kg	☼	10/01/18 09:55	10/01/18 21:21	1
Phenanthrene	ND		10		ug/Kg	☼	10/01/18 09:55	10/01/18 21:21	1
Anthracene	ND		10		ug/Kg	☼	10/01/18 09:55	10/01/18 21:21	1
Fluoranthene	23		10		ug/Kg	☼	10/01/18 09:55	10/01/18 21:21	1
Pyrene	26		10		ug/Kg	☼	10/01/18 09:55	10/01/18 21:21	1
Benzo[a]anthracene	16		10		ug/Kg	☼	10/01/18 09:55	10/01/18 21:21	1
Chrysene	22		10		ug/Kg	☼	10/01/18 09:55	10/01/18 21:21	1
Benzo[b]fluoranthene	26		10		ug/Kg	☼	10/01/18 09:55	10/01/18 21:21	1
Benzo[k]fluoranthene	10		10		ug/Kg	☼	10/01/18 09:55	10/01/18 21:21	1
Benzo[a]pyrene	22		10		ug/Kg	☼	10/01/18 09:55	10/01/18 21:21	1
Indeno[1,2,3-cd]pyrene	12		10		ug/Kg	☼	10/01/18 09:55	10/01/18 21:21	1
Dibenz(a,h)anthracene	ND		10		ug/Kg	☼	10/01/18 09:55	10/01/18 21:21	1
Benzo[g,h,i]perylene	14		10		ug/Kg	☼	10/01/18 09:55	10/01/18 21:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	80		23 - 120				10/01/18 09:55	10/01/18 21:21	1
2-Fluorobiphenyl (Surr)	80		38 - 123				10/01/18 09:55	10/01/18 21:21	1
p-Terphenyl-d14	101		68 - 136				10/01/18 09:55	10/01/18 21:21	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	7.3		0.93		mg/Kg	☼	10/03/18 16:39	10/04/18 16:48	1
Lead	21		2.2		mg/Kg	☼	10/03/18 16:39	10/04/18 16:48	1

Client Sample ID: TP-43-6

Lab Sample ID: 590-9464-47

Date Collected: 09/25/18 14:45

Matrix: Solid

Date Received: 09/26/18 10:18

Percent Solids: 96.1

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	☼	10/01/18 09:55	10/01/18 21:46	1

TestAmerica Spokane

Client Sample Results

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014001

TestAmerica Job ID: 590-9464-1

Client Sample ID: TP-43-6

Date Collected: 09/25/18 14:45

Date Received: 09/26/18 10:18

Lab Sample ID: 590-9464-47

Matrix: Solid

Percent Solids: 96.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		10		ug/Kg	☼	10/01/18 09:55	10/01/18 21:46	1
1-Methylnaphthalene	ND		10		ug/Kg	☼	10/01/18 09:55	10/01/18 21:46	1
Acenaphthylene	ND		10		ug/Kg	☼	10/01/18 09:55	10/01/18 21:46	1
Acenaphthene	ND		10		ug/Kg	☼	10/01/18 09:55	10/01/18 21:46	1
Fluorene	ND		10		ug/Kg	☼	10/01/18 09:55	10/01/18 21:46	1
Phenanthrene	ND		10		ug/Kg	☼	10/01/18 09:55	10/01/18 21:46	1
Anthracene	ND		10		ug/Kg	☼	10/01/18 09:55	10/01/18 21:46	1
Fluoranthene	12		10		ug/Kg	☼	10/01/18 09:55	10/01/18 21:46	1
Pyrene	14		10		ug/Kg	☼	10/01/18 09:55	10/01/18 21:46	1
Benzo[a]anthracene	ND		10		ug/Kg	☼	10/01/18 09:55	10/01/18 21:46	1
Chrysene	12		10		ug/Kg	☼	10/01/18 09:55	10/01/18 21:46	1
Benzo[b]fluoranthene	15		10		ug/Kg	☼	10/01/18 09:55	10/01/18 21:46	1
Benzo[k]fluoranthene	ND		10		ug/Kg	☼	10/01/18 09:55	10/01/18 21:46	1
Benzo[a]pyrene	14		10		ug/Kg	☼	10/01/18 09:55	10/01/18 21:46	1
Indeno[1,2,3-cd]pyrene	ND		10		ug/Kg	☼	10/01/18 09:55	10/01/18 21:46	1
Dibenz(a,h)anthracene	ND		10		ug/Kg	☼	10/01/18 09:55	10/01/18 21:46	1
Benzo[g,h,i]perylene	ND		10		ug/Kg	☼	10/01/18 09:55	10/01/18 21:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	81		23 - 120	10/01/18 09:55	10/01/18 21:46	1
2-Fluorobiphenyl (Surr)	75		38 - 123	10/01/18 09:55	10/01/18 21:46	1
p-Terphenyl-d14	88		68 - 136	10/01/18 09:55	10/01/18 21:46	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	7.7		0.96		mg/Kg	☼	10/03/18 16:39	10/04/18 16:52	1
Lead	45		2.3		mg/Kg	☼	10/03/18 16:39	10/04/18 16:52	1

Client Sample ID: SP-1

Date Collected: 09/25/18 15:20

Date Received: 09/26/18 10:18

Lab Sample ID: 590-9464-49

Matrix: Solid

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		510		ug/Kg	☼	10/01/18 09:55	10/01/18 22:11	50
2-Methylnaphthalene	ND		510		ug/Kg	☼	10/01/18 09:55	10/01/18 22:11	50
1-Methylnaphthalene	ND		510		ug/Kg	☼	10/01/18 09:55	10/01/18 22:11	50
Acenaphthylene	ND		510		ug/Kg	☼	10/01/18 09:55	10/01/18 22:11	50
Acenaphthene	2100		510		ug/Kg	☼	10/01/18 09:55	10/01/18 22:11	50
Fluorene	660		510		ug/Kg	☼	10/01/18 09:55	10/01/18 22:11	50
Phenanthrene	14000		510		ug/Kg	☼	10/01/18 09:55	10/01/18 22:11	50
Anthracene	3100		510		ug/Kg	☼	10/01/18 09:55	10/01/18 22:11	50
Fluoranthene	33000		510		ug/Kg	☼	10/01/18 09:55	10/01/18 22:11	50
Pyrene	36000		510		ug/Kg	☼	10/01/18 09:55	10/01/18 22:11	50
Benzo[a]anthracene	22000		510		ug/Kg	☼	10/01/18 09:55	10/01/18 22:11	50
Chrysene	29000		510		ug/Kg	☼	10/01/18 09:55	10/01/18 22:11	50
Benzo[b]fluoranthene	33000		510		ug/Kg	☼	10/01/18 09:55	10/01/18 22:11	50
Benzo[k]fluoranthene	14000		510		ug/Kg	☼	10/01/18 09:55	10/01/18 22:11	50
Benzo[a]pyrene	30000		510		ug/Kg	☼	10/01/18 09:55	10/01/18 22:11	50
Indeno[1,2,3-cd]pyrene	15000		510		ug/Kg	☼	10/01/18 09:55	10/01/18 22:11	50

TestAmerica Spokane

Client Sample Results

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014001

TestAmerica Job ID: 590-9464-1

Client Sample ID: SP-1

Date Collected: 09/25/18 15:20

Date Received: 09/26/18 10:18

Lab Sample ID: 590-9464-49

Matrix: Solid

Percent Solids: 96.6

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	5100		510		ug/Kg	☼	10/01/18 09:55	10/01/18 22:11	50
Benzo[g,h,i]perylene	16000		510		ug/Kg	☼	10/01/18 09:55	10/01/18 22:11	50
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	78		23 - 120				10/01/18 09:55	10/01/18 22:11	50
2-Fluorobiphenyl (Surr)	77		38 - 123				10/01/18 09:55	10/01/18 22:11	50
p-Terphenyl-d14	83		68 - 136				10/01/18 09:55	10/01/18 22:11	50

Method: NWTPH-HCID - Northwest - Hydrocarbon Identification (GC)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		25		mg/Kg	☼	10/03/18 17:31	10/04/18 13:05	1
Diesel Range Organics (DRO) (C10-C25)	330		50		mg/Kg	☼	10/03/18 17:31	10/04/18 13:05	1
Residual Range Organics (RRO) (C25-C36)	1500		100		mg/Kg	☼	10/03/18 17:31	10/04/18 13:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	103		50 - 150				10/03/18 17:31	10/04/18 13:05	1
n-Triacontane-d62	114		50 - 150				10/03/18 17:31	10/04/18 13:05	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	37		0.99		mg/Kg	☼	10/03/18 16:39	10/04/18 16:56	1
Lead	3200		2.4		mg/Kg	☼	10/03/18 16:39	10/04/18 16:56	1

Client Sample ID: SP-2

Date Collected: 09/25/18 15:30

Date Received: 09/26/18 10:18

Lab Sample ID: 590-9464-50

Matrix: Solid

Percent Solids: 95.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	710		520		ug/Kg	☼	10/01/18 09:55	10/01/18 22:36	50
2-Methylnaphthalene	790		520		ug/Kg	☼	10/01/18 09:55	10/01/18 22:36	50
1-Methylnaphthalene	700		520		ug/Kg	☼	10/01/18 09:55	10/01/18 22:36	50
Acenaphthylene	ND		520		ug/Kg	☼	10/01/18 09:55	10/01/18 22:36	50
Acenaphthene	4400		520		ug/Kg	☼	10/01/18 09:55	10/01/18 22:36	50
Fluorene	1700		520		ug/Kg	☼	10/01/18 09:55	10/01/18 22:36	50
Phenanthrene	36000		520		ug/Kg	☼	10/01/18 09:55	10/01/18 22:36	50
Anthracene	8100		520		ug/Kg	☼	10/01/18 09:55	10/01/18 22:36	50
Fluoranthene	63000		520		ug/Kg	☼	10/01/18 09:55	10/01/18 22:36	50
Pyrene	72000		520		ug/Kg	☼	10/01/18 09:55	10/01/18 22:36	50
Benzo[a]anthracene	41000		520		ug/Kg	☼	10/01/18 09:55	10/01/18 22:36	50
Chrysene	54000		520		ug/Kg	☼	10/01/18 09:55	10/01/18 22:36	50
Benzo[b]fluoranthene	53000		520		ug/Kg	☼	10/01/18 09:55	10/01/18 22:36	50
Benzo[k]fluoranthene	25000		520		ug/Kg	☼	10/01/18 09:55	10/01/18 22:36	50
Benzo[a]pyrene	51000		520		ug/Kg	☼	10/01/18 09:55	10/01/18 22:36	50
Indeno[1,2,3-cd]pyrene	24000		520		ug/Kg	☼	10/01/18 09:55	10/01/18 22:36	50
Dibenz(a,h)anthracene	8500		520		ug/Kg	☼	10/01/18 09:55	10/01/18 22:36	50
Benzo[g,h,i]perylene	26000		520		ug/Kg	☼	10/01/18 09:55	10/01/18 22:36	50

TestAmerica Spokane

Client Sample Results

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014001

TestAmerica Job ID: 590-9464-1

Client Sample ID: SP-2

Date Collected: 09/25/18 15:30

Date Received: 09/26/18 10:18

Lab Sample ID: 590-9464-50

Matrix: Solid

Percent Solids: 95.4

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	77		23 - 120	10/01/18 09:55	10/01/18 22:36	50
2-Fluorobiphenyl (Surr)	92		38 - 123	10/01/18 09:55	10/01/18 22:36	50
p-Terphenyl-d14	98		68 - 136	10/01/18 09:55	10/01/18 22:36	50

Method: NWTPH-HCID - Northwest - Hydrocarbon Identification (GC)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		25		mg/Kg	☼	10/03/18 17:31	10/04/18 13:28	1
Diesel Range Organics (DRO)	310		49		mg/Kg	☼	10/03/18 17:31	10/04/18 13:28	1
(C10-C25)									
Residual Range Organics (RRO)	1400		98		mg/Kg	☼	10/03/18 17:31	10/04/18 13:28	1
(C25-C36)									

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	105		50 - 150	10/03/18 17:31	10/04/18 13:28	1
n-Triacontane-d62	106		50 - 150	10/03/18 17:31	10/04/18 13:28	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	11		0.84		mg/Kg	☼	10/03/18 16:39	10/04/18 17:00	1
Lead	600		2.0		mg/Kg	☼	10/03/18 16:39	10/04/18 17:00	1

Client Sample ID: SP-3

Date Collected: 09/25/18 15:47

Date Received: 09/26/18 10:18

Lab Sample ID: 590-9464-51

Matrix: Solid

Percent Solids: 95.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	78		52		ug/Kg	☼	10/03/18 10:40	10/03/18 20:03	5
2-Methylnaphthalene	62		52		ug/Kg	☼	10/03/18 10:40	10/03/18 20:03	5
1-Methylnaphthalene	ND		52		ug/Kg	☼	10/03/18 10:40	10/03/18 20:03	5
Acenaphthylene	ND		52		ug/Kg	☼	10/03/18 10:40	10/03/18 20:03	5
Acenaphthene	570		52		ug/Kg	☼	10/03/18 10:40	10/03/18 20:03	5
Fluorene	170		52		ug/Kg	☼	10/03/18 10:40	10/03/18 20:03	5
Phenanthrene	3400		52		ug/Kg	☼	10/03/18 10:40	10/03/18 20:03	5
Anthracene	860		52		ug/Kg	☼	10/03/18 10:40	10/03/18 20:03	5
Fluoranthene	7600		52		ug/Kg	☼	10/03/18 10:40	10/03/18 20:03	5
Pyrene	9400		52		ug/Kg	☼	10/03/18 10:40	10/03/18 20:03	5
Benzo[a]anthracene	5700		52		ug/Kg	☼	10/03/18 10:40	10/03/18 20:03	5
Chrysene	7400		52		ug/Kg	☼	10/03/18 10:40	10/03/18 20:03	5
Benzo[b]fluoranthene	8800		52		ug/Kg	☼	10/03/18 10:40	10/03/18 20:03	5
Benzo[k]fluoranthene	3700		52		ug/Kg	☼	10/03/18 10:40	10/03/18 20:03	5
Benzo[a]pyrene	8500		52		ug/Kg	☼	10/03/18 10:40	10/03/18 20:03	5
Indeno[1,2,3-cd]pyrene	4800		52		ug/Kg	☼	10/03/18 10:40	10/03/18 20:03	5
Dibenz(a,h)anthracene	1500		52		ug/Kg	☼	10/03/18 10:40	10/03/18 20:03	5
Benzo[g,h,i]perylene	5400		52		ug/Kg	☼	10/03/18 10:40	10/03/18 20:03	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	77		23 - 120	10/03/18 10:40	10/03/18 20:03	5
2-Fluorobiphenyl (Surr)	80		38 - 123	10/03/18 10:40	10/03/18 20:03	5
p-Terphenyl-d14	90		68 - 136	10/03/18 10:40	10/03/18 20:03	5

TestAmerica Spokane

Client Sample Results

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014001

TestAmerica Job ID: 590-9464-1

Client Sample ID: SP-3

Date Collected: 09/25/18 15:47

Date Received: 09/26/18 10:18

Lab Sample ID: 590-9464-51

Matrix: Solid

Percent Solids: 95.6

Method: NWTPH-HCID - Northwest - Hydrocarbon Identification (GC)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		25		mg/Kg	☼	10/03/18 17:31	10/04/18 13:51	1
Diesel Range Organics (DRO) (C10-C25)	130		51		mg/Kg	☼	10/03/18 17:31	10/04/18 13:51	1
Residual Range Organics (RRO) (C25-C36)	680		100		mg/Kg	☼	10/03/18 17:31	10/04/18 13:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	72		50 - 150				10/03/18 17:31	10/04/18 13:51	1
<i>n</i> -Triacontane-d62	72		50 - 150				10/03/18 17:31	10/04/18 13:51	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	10		1.0		mg/Kg	☼	10/03/18 16:39	10/04/18 17:03	1
Lead	770		2.5		mg/Kg	☼	10/03/18 16:39	10/04/18 17:03	1

Client Sample ID: SP-4

Date Collected: 09/25/18 15:52

Date Received: 09/26/18 10:18

Lab Sample ID: 590-9464-52

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	☼	10/03/18 10:40	10/03/18 20:28	1
2-Methylnaphthalene	ND		10		ug/Kg	☼	10/03/18 10:40	10/03/18 20:28	1
1-Methylnaphthalene	ND		10		ug/Kg	☼	10/03/18 10:40	10/03/18 20:28	1
Acenaphthylene	ND		10		ug/Kg	☼	10/03/18 10:40	10/03/18 20:28	1
Acenaphthene	ND		10		ug/Kg	☼	10/03/18 10:40	10/03/18 20:28	1
Fluorene	ND		10		ug/Kg	☼	10/03/18 10:40	10/03/18 20:28	1
Phenanthrene	ND		10		ug/Kg	☼	10/03/18 10:40	10/03/18 20:28	1
Anthracene	ND		10		ug/Kg	☼	10/03/18 10:40	10/03/18 20:28	1
Fluoranthene	17		10		ug/Kg	☼	10/03/18 10:40	10/03/18 20:28	1
Pyrene	28		10		ug/Kg	☼	10/03/18 10:40	10/03/18 20:28	1
Benzo[a]anthracene	18		10		ug/Kg	☼	10/03/18 10:40	10/03/18 20:28	1
Chrysene	27		10		ug/Kg	☼	10/03/18 10:40	10/03/18 20:28	1
Benzo[b]fluoranthene	24		10		ug/Kg	☼	10/03/18 10:40	10/03/18 20:28	1
Benzo[k]fluoranthene	ND		10		ug/Kg	☼	10/03/18 10:40	10/03/18 20:28	1
Benzo[a]pyrene	28		10		ug/Kg	☼	10/03/18 10:40	10/03/18 20:28	1
Indeno[1,2,3-cd]pyrene	13		10		ug/Kg	☼	10/03/18 10:40	10/03/18 20:28	1
Dibenz(a,h)anthracene	ND		10		ug/Kg	☼	10/03/18 10:40	10/03/18 20:28	1
Benzo[g,h,i]perylene	22		10		ug/Kg	☼	10/03/18 10:40	10/03/18 20:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>Nitrobenzene-d5</i>	87		23 - 120				10/03/18 10:40	10/03/18 20:28	1
<i>2-Fluorobiphenyl (Surr)</i>	86		38 - 123				10/03/18 10:40	10/03/18 20:28	1
<i>p</i> -Terphenyl-d14	101		68 - 136				10/03/18 10:40	10/03/18 20:28	1

Method: NWTPH-HCID - Northwest - Hydrocarbon Identification (GC)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		25		mg/Kg	☼	10/03/18 17:31	10/04/18 12:19	1
Diesel Range Organics (DRO) (C10-C25)	ND		50		mg/Kg	☼	10/03/18 17:31	10/04/18 12:19	1
Residual Range Organics (RRO) (C25-C36)	ND		100		mg/Kg	☼	10/03/18 17:31	10/04/18 12:19	1

TestAmerica Spokane

Client Sample Results

Client: Hart Crowser, Inc.
 Project/Site: CVSD/15014001

TestAmerica Job ID: 590-9464-1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	84		50 - 150	10/03/18 17:31	10/04/18 12:19	1
<i>n</i> -Triacontane-d62	89		50 - 150	10/03/18 17:31	10/04/18 12:19	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	8.5		1.0		mg/Kg	☼	10/03/18 16:39	10/04/18 17:07	1
Lead	53		2.5		mg/Kg	☼	10/03/18 16:39	10/04/18 17:07	1



QC Sample Results

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014001

TestAmerica Job ID: 590-9464-1

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

Lab Sample ID: MB 590-19137/1-A
Matrix: Solid
Analysis Batch: 19135

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 19137

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		10		ug/Kg		10/01/18 09:55	10/01/18 12:36	1
2-Methylnaphthalene	ND		10		ug/Kg		10/01/18 09:55	10/01/18 12:36	1
1-Methylnaphthalene	ND		10		ug/Kg		10/01/18 09:55	10/01/18 12:36	1
Acenaphthylene	ND		10		ug/Kg		10/01/18 09:55	10/01/18 12:36	1
Acenaphthene	ND		10		ug/Kg		10/01/18 09:55	10/01/18 12:36	1
Fluorene	ND		10		ug/Kg		10/01/18 09:55	10/01/18 12:36	1
Phenanthrene	ND		10		ug/Kg		10/01/18 09:55	10/01/18 12:36	1
Anthracene	ND		10		ug/Kg		10/01/18 09:55	10/01/18 12:36	1
Fluoranthene	ND		10		ug/Kg		10/01/18 09:55	10/01/18 12:36	1
Pyrene	ND		10		ug/Kg		10/01/18 09:55	10/01/18 12:36	1
Benzo[a]anthracene	ND		10		ug/Kg		10/01/18 09:55	10/01/18 12:36	1
Chrysene	ND		10		ug/Kg		10/01/18 09:55	10/01/18 12:36	1
Benzo[b]fluoranthene	ND		10		ug/Kg		10/01/18 09:55	10/01/18 12:36	1
Benzo[k]fluoranthene	ND		10		ug/Kg		10/01/18 09:55	10/01/18 12:36	1
Benzo[a]pyrene	ND		10		ug/Kg		10/01/18 09:55	10/01/18 12:36	1
Indeno[1,2,3-cd]pyrene	ND		10		ug/Kg		10/01/18 09:55	10/01/18 12:36	1
Dibenz(a,h)anthracene	ND		10		ug/Kg		10/01/18 09:55	10/01/18 12:36	1
Benzo[g,h,i]perylene	ND		10		ug/Kg		10/01/18 09:55	10/01/18 12:36	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	99		23 - 120	10/01/18 09:55	10/01/18 12:36	1
2-Fluorobiphenyl (Surr)	99		38 - 123	10/01/18 09:55	10/01/18 12:36	1
p-Terphenyl-d14	123		68 - 136	10/01/18 09:55	10/01/18 12:36	1

Lab Sample ID: LCS 590-19137/2-A
Matrix: Solid
Analysis Batch: 19135

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 19137

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Naphthalene	267	182		ug/Kg		68	41 - 121
2-Methylnaphthalene	267	192		ug/Kg		72	39 - 132
1-Methylnaphthalene	267	216		ug/Kg		81	46 - 131
Acenaphthylene	267	175		ug/Kg		66	56 - 123
Acenaphthene	267	204		ug/Kg		76	43 - 140
Fluorene	267	179		ug/Kg		67	54 - 131
Phenanthrene	267	196		ug/Kg		74	55 - 141
Anthracene	267	244		ug/Kg		92	60 - 129
Fluoranthene	267	213		ug/Kg		80	63 - 141
Pyrene	267	223		ug/Kg		84	62 - 139
Benzo[a]anthracene	267	224		ug/Kg		84	61 - 136
Chrysene	267	211		ug/Kg		79	57 - 144
Benzo[b]fluoranthene	267	211		ug/Kg		79	66 - 141
Benzo[k]fluoranthene	267	211		ug/Kg		79	63 - 150
Benzo[a]pyrene	267	203		ug/Kg		76	60 - 133
Indeno[1,2,3-cd]pyrene	267	191		ug/Kg		71	55 - 142
Dibenz(a,h)anthracene	267	183		ug/Kg		69	60 - 150
Benzo[g,h,i]perylene	267	198		ug/Kg		74	58 - 147

TestAmerica Spokane

QC Sample Results

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014001

TestAmerica Job ID: 590-9464-1

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

Lab Sample ID: LCS 590-19137/2-A
Matrix: Solid
Analysis Batch: 19135

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 19137

<i>Surrogate</i>	<i>%Recovery</i>	<i>LCS Qualifier</i>	<i>Limits</i>
Nitrobenzene-d5	86		23 - 120
2-Fluorobiphenyl (Surr)	86		38 - 123
p-Terphenyl-d14	110		68 - 136

Lab Sample ID: 590-9464-9 MS
Matrix: Solid
Analysis Batch: 19135

Client Sample ID: TP-30-6
Prep Type: Total/NA
Prep Batch: 19137

<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>Limits</i>
Naphthalene	ND		277	194		ug/Kg	☼	56	41 - 121
2-Methylnaphthalene	ND		277	196		ug/Kg	☼	59	39 - 132
1-Methylnaphthalene	ND		277	219		ug/Kg	☼	69	46 - 131
Acenaphthylene	ND		277	191		ug/Kg	☼	69	56 - 123
Acenaphthene	280		277	440		ug/Kg	☼	56	43 - 140
Fluorene	78		277	228		ug/Kg	☼	54	54 - 131
Phenanthrene	1500	F2	277	1250	4	ug/Kg	☼	-76	55 - 141
Anthracene	350	F1 F2	277	498	F1	ug/Kg	☼	52	60 - 129
Fluoranthene	3600	F2	277	2970	4	ug/Kg	☼	-225	63 - 141
Pyrene	4300	F2	277	3270	4	ug/Kg	☼	-376	62 - 139
Benzo[a]anthracene	3000	F2	277	2460	4	ug/Kg	☼	-199	61 - 136
Chrysene	3900	F2	277	3050	4	ug/Kg	☼	-314	57 - 144
Benzo[b]fluoranthene	5100	F2	277	3880	4	ug/Kg	☼	-440	66 - 141
Benzo[k]fluoranthene	1900	F2	277	1770	4	ug/Kg	☼	-46	63 - 150
Benzo[a]pyrene	4400	F2	277	3510	4	ug/Kg	☼	-336	60 - 133
Indeno[1,2,3-cd]pyrene	2500	F2	277	2120	4	ug/Kg	☼	-149	55 - 142
Dibenz(a,h)anthracene	810	F1 F2	277	823	F1	ug/Kg	☼	5	60 - 150
Benzo[g,h,i]perylene	3000	F2	277	2490	4	ug/Kg	☼	-199	58 - 147

<i>Surrogate</i>	<i>%Recovery</i>	<i>MS Qualifier</i>	<i>Limits</i>
Nitrobenzene-d5	80		23 - 120
2-Fluorobiphenyl (Surr)	84		38 - 123
p-Terphenyl-d14	93		68 - 136

Lab Sample ID: 590-9464-9 MSD
Matrix: Solid
Analysis Batch: 19135

Client Sample ID: TP-30-6
Prep Type: Total/NA
Prep Batch: 19137

<i>Analyte</i>	<i>Sample Result</i>	<i>Sample Qualifier</i>	<i>Spike Added</i>	<i>MSD Result</i>	<i>MSD Qualifier</i>	<i>Unit</i>	<i>D</i>	<i>%Rec</i>	<i>Limits</i>	<i>RPD</i>	<i>Limit</i>
Naphthalene	ND		280	241		ug/Kg	☼	72	41 - 121	22	35
2-Methylnaphthalene	ND		280	238		ug/Kg	☼	74	39 - 132	19	35
1-Methylnaphthalene	ND		280	263		ug/Kg	☼	84	46 - 131	18	35
Acenaphthylene	ND		280	205		ug/Kg	☼	73	56 - 123	7	35
Acenaphthene	280		280	619		ug/Kg	☼	119	43 - 140	34	35
Fluorene	78		280	318		ug/Kg	☼	86	54 - 131	33	35
Phenanthrene	1500	F2	280	2330	4 F2	ug/Kg	☼	311	55 - 141	60	35
Anthracene	350	F1 F2	280	756	F1 F2	ug/Kg	☼	144	60 - 129	41	35
Fluoranthene	3600	F2	280	5550	4 F2	ug/Kg	☼	699	63 - 141	61	35
Pyrene	4300	F2	280	6000	4 F2	ug/Kg	☼	601	62 - 139	59	35

TestAmerica Spokane

QC Sample Results

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014001

TestAmerica Job ID: 590-9464-1

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

Lab Sample ID: 590-9464-9 MSD
Matrix: Solid
Analysis Batch: 19135

Client Sample ID: TP-30-6
Prep Type: Total/NA
Prep Batch: 19137

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier						
Benzo[a]anthracene	3000	F2	280	4530	4 F2	ug/Kg	☼	540	61 - 136	59	35
Chrysene	3900	F2	280	5460	4 F2	ug/Kg	☼	552	57 - 144	57	35
Benzo[b]fluoranthene	5100	F2	280	6780	4 F2	ug/Kg	☼	602	66 - 141	54	35
Benzo[k]fluoranthene	1900	F2	280	3070	4 F2	ug/Kg	☼	419	63 - 150	54	35
Benzo[a]pyrene	4400	F2	280	6060	4 F2	ug/Kg	☼	576	60 - 133	53	35
Indeno[1,2,3-cd]pyrene	2500	F2	280	3680	4 F2	ug/Kg	☼	410	55 - 142	54	35
Dibenz(a,h)anthracene	810	F1 F2	280	1320	F1 F2	ug/Kg	☼	183	60 - 150	47	35
Benzo[g,h,i]perylene	3000	F2	280	4220	4 F2	ug/Kg	☼	422	58 - 147	52	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
Nitrobenzene-d5	85		23 - 120
2-Fluorobiphenyl (Surr)	83		38 - 123
p-Terphenyl-d14	103		68 - 136

Lab Sample ID: MB 590-19192/1-A
Matrix: Solid
Analysis Batch: 19190

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 19192

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Naphthalene	ND		10		ug/Kg		10/03/18 10:40	10/03/18 17:09	1
2-Methylnaphthalene	ND		10		ug/Kg		10/03/18 10:40	10/03/18 17:09	1
1-Methylnaphthalene	ND		10		ug/Kg		10/03/18 10:40	10/03/18 17:09	1
Acenaphthylene	ND		10		ug/Kg		10/03/18 10:40	10/03/18 17:09	1
Acenaphthene	ND		10		ug/Kg		10/03/18 10:40	10/03/18 17:09	1
Fluorene	ND		10		ug/Kg		10/03/18 10:40	10/03/18 17:09	1
Phenanthrene	ND		10		ug/Kg		10/03/18 10:40	10/03/18 17:09	1
Anthracene	ND		10		ug/Kg		10/03/18 10:40	10/03/18 17:09	1
Fluoranthene	ND		10		ug/Kg		10/03/18 10:40	10/03/18 17:09	1
Pyrene	ND		10		ug/Kg		10/03/18 10:40	10/03/18 17:09	1
Benzo[a]anthracene	ND		10		ug/Kg		10/03/18 10:40	10/03/18 17:09	1
Chrysene	ND		10		ug/Kg		10/03/18 10:40	10/03/18 17:09	1
Benzo[b]fluoranthene	ND		10		ug/Kg		10/03/18 10:40	10/03/18 17:09	1
Benzo[k]fluoranthene	ND		10		ug/Kg		10/03/18 10:40	10/03/18 17:09	1
Benzo[a]pyrene	ND		10		ug/Kg		10/03/18 10:40	10/03/18 17:09	1
Indeno[1,2,3-cd]pyrene	ND		10		ug/Kg		10/03/18 10:40	10/03/18 17:09	1
Dibenz(a,h)anthracene	ND		10		ug/Kg		10/03/18 10:40	10/03/18 17:09	1
Benzo[g,h,i]perylene	ND		10		ug/Kg		10/03/18 10:40	10/03/18 17:09	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	92		23 - 120	10/03/18 10:40	10/03/18 17:09	1
2-Fluorobiphenyl (Surr)	92		38 - 123	10/03/18 10:40	10/03/18 17:09	1
p-Terphenyl-d14	107		68 - 136	10/03/18 10:40	10/03/18 17:09	1

TestAmerica Spokane

QC Sample Results

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014001

TestAmerica Job ID: 590-9464-1

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

Lab Sample ID: LCS 590-19192/2-A
Matrix: Solid
Analysis Batch: 19190

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 19192

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Naphthalene	267	203		ug/Kg		76	41 - 121
2-Methylnaphthalene	267	205		ug/Kg		77	39 - 132
1-Methylnaphthalene	267	228		ug/Kg		85	46 - 131
Acenaphthylene	267	206		ug/Kg		77	56 - 123
Acenaphthene	267	206		ug/Kg		77	43 - 140
Fluorene	267	194		ug/Kg		73	54 - 131
Phenanthrene	267	204		ug/Kg		77	55 - 141
Anthracene	267	265		ug/Kg		99	60 - 129
Fluoranthene	267	214		ug/Kg		80	63 - 141
Pyrene	267	220		ug/Kg		82	62 - 139
Benzo[a]anthracene	267	214		ug/Kg		80	61 - 136
Chrysene	267	218		ug/Kg		82	57 - 144
Benzo[b]fluoranthene	267	212		ug/Kg		79	66 - 141
Benzo[k]fluoranthene	267	213		ug/Kg		80	63 - 150
Benzo[a]pyrene	267	218		ug/Kg		82	60 - 133
Indeno[1,2,3-cd]pyrene	267	217		ug/Kg		81	55 - 142
Dibenz(a,h)anthracene	267	217		ug/Kg		81	60 - 150
Benzo[g,h,i]perylene	267	218		ug/Kg		82	58 - 147

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Nitrobenzene-d5	94		23 - 120
2-Fluorobiphenyl (Surr)	97		38 - 123
p-Terphenyl-d14	105		68 - 136

Lab Sample ID: LCSD 590-19192/3-A
Matrix: Solid
Analysis Batch: 19190

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 19192

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Naphthalene	267	194		ug/Kg		73	41 - 121	5	35
2-Methylnaphthalene	267	187		ug/Kg		70	39 - 132	9	35
1-Methylnaphthalene	267	199		ug/Kg		75	46 - 131	14	35
Acenaphthylene	267	203		ug/Kg		76	56 - 123	2	35
Acenaphthene	267	208		ug/Kg		78	43 - 140	1	35
Fluorene	267	196		ug/Kg		74	54 - 131	1	35
Phenanthrene	267	198		ug/Kg		74	55 - 141	3	35
Anthracene	267	262		ug/Kg		98	60 - 129	1	35
Fluoranthene	267	207		ug/Kg		78	63 - 141	3	35
Pyrene	267	215		ug/Kg		81	62 - 139	2	35
Benzo[a]anthracene	267	209		ug/Kg		78	61 - 136	2	35
Chrysene	267	213		ug/Kg		80	57 - 144	2	35
Benzo[b]fluoranthene	267	211		ug/Kg		79	66 - 141	0	35
Benzo[k]fluoranthene	267	217		ug/Kg		81	63 - 150	2	35
Benzo[a]pyrene	267	215		ug/Kg		81	60 - 133	1	35
Indeno[1,2,3-cd]pyrene	267	214		ug/Kg		80	55 - 142	1	35
Dibenz(a,h)anthracene	267	211		ug/Kg		79	60 - 150	3	35
Benzo[g,h,i]perylene	267	216		ug/Kg		81	58 - 147	1	35

TestAmerica Spokane

QC Sample Results

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014001

TestAmerica Job ID: 590-9464-1

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

Lab Sample ID: LCSD 590-19192/3-A
Matrix: Solid
Analysis Batch: 19190

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 19192

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
Nitrobenzene-d5	88		23 - 120
2-Fluorobiphenyl (Surr)	96		38 - 123
p-Terphenyl-d14	100		68 - 136

Method: NWTPH-HCID - Northwest - Hydrocarbon Identification (GC)

Lab Sample ID: MB 590-19218/1-A
Matrix: Solid
Analysis Batch: 19220

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 19218

Analyte	MB MB		RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Gasoline Range Organics [C6 - C10]	ND		25		mg/Kg		10/03/18 17:31	10/04/18 10:48	1
Diesel Range Organics (DRO) (C10-C25)	ND		50		mg/Kg		10/03/18 17:31	10/04/18 10:48	1
Residual Range Organics (RRO) (C25-C36)	ND		100		mg/Kg		10/03/18 17:31	10/04/18 10:48	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
o-Terphenyl	88		50 - 150	10/03/18 17:31	10/04/18 10:48	1
n-Triacontane-d62	89		50 - 150	10/03/18 17:31	10/04/18 10:48	1

Lab Sample ID: 590-9464-49 DU
Matrix: Solid
Analysis Batch: 19220

Client Sample ID: SP-1
Prep Type: Total/NA
Prep Batch: 19218

Analyte	Sample		DU DU		Unit	D	RPD	RPD	Limit
	Result	Qualifier	Result	Qualifier					
Gasoline Range Organics [C6 - C10]	ND		ND		mg/Kg	☼		NC	25
Diesel Range Organics (DRO) (C10-C25)	330		193	F3	mg/Kg	☼		52	25
Residual Range Organics (RRO) (C25-C36)	1500		994	F3	mg/Kg	☼		41	25

Surrogate	DU DU		Limits
	%Recovery	Qualifier	
o-Terphenyl	72		50 - 150
n-Triacontane-d62	79		50 - 150

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 590-19140/2-A
Matrix: Solid
Analysis Batch: 19168

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 19140

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Lead	ND		3.0		mg/Kg		10/01/18 12:25	10/02/18 11:45	1

TestAmerica Spokane

QC Sample Results

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014001

TestAmerica Job ID: 590-9464-1

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

Lab Sample ID: LCS 590-19140/1-A
Matrix: Solid
Analysis Batch: 19168

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 19140

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	50.0	52.9		mg/Kg		106	80 - 120

Lab Sample ID: 590-9464-1 MS
Matrix: Solid
Analysis Batch: 19168

Client Sample ID: TP-24-6
Prep Type: Total/NA
Prep Batch: 19140

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	22		50.3	64.8		mg/Kg	☼	85	75 - 125

Lab Sample ID: 590-9464-1 MSD
Matrix: Solid
Analysis Batch: 19168

Client Sample ID: TP-24-6
Prep Type: Total/NA
Prep Batch: 19140

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Lead	22		51.3	62.9		mg/Kg	☼	80	75 - 125	3	20

Lab Sample ID: 590-9464-1 DU
Matrix: Solid
Analysis Batch: 19168

Client Sample ID: TP-24-6
Prep Type: Total/NA
Prep Batch: 19140

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Lead	22		25.6		mg/Kg	☼	15	20

Lab Sample ID: MB 590-19211/2-A
Matrix: Solid
Analysis Batch: 19237

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 19211

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		1.3		mg/Kg		10/03/18 16:39	10/04/18 13:59	1
Lead	ND		3.0		mg/Kg		10/03/18 16:39	10/04/18 13:59	1

Lab Sample ID: LCS 590-19211/1-A
Matrix: Solid
Analysis Batch: 19237

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 19211

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	50.0	48.8		mg/Kg		98	80 - 120
Lead	50.0	52.1		mg/Kg		104	80 - 120

Lab Chronicle

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014001

TestAmerica Job ID: 590-9464-1

Client Sample ID: TP-24-6

Date Collected: 09/25/18 09:15

Date Received: 09/26/18 10:18

Lab Sample ID: 590-9464-1

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			19108	09/28/18 10:27	MO	TAL SPK

Client Sample ID: TP-24-6

Date Collected: 09/25/18 09:15

Date Received: 09/26/18 10:18

Lab Sample ID: 590-9464-1

Matrix: Solid

Percent Solids: 97.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			1.15 g	50 mL	19140	10/01/18 12:25	JSP	TAL SPK
Total/NA	Analysis	6010C		1			19168	10/02/18 11:48	JSP	TAL SPK

Client Sample ID: TP-25-6

Date Collected: 09/25/18 09:25

Date Received: 09/26/18 10:18

Lab Sample ID: 590-9464-3

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			19108	09/28/18 10:27	MO	TAL SPK

Client Sample ID: TP-25-6

Date Collected: 09/25/18 09:25

Date Received: 09/26/18 10:18

Lab Sample ID: 590-9464-3

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			1.21 g	50 mL	19140	10/01/18 12:25	JSP	TAL SPK
Total/NA	Analysis	6010C		1			19229	10/03/18 18:02	JSP	TAL SPK

Client Sample ID: TP-27-6

Date Collected: 09/25/18 09:40

Date Received: 09/26/18 10:18

Lab Sample ID: 590-9464-5

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			19108	09/28/18 10:27	MO	TAL SPK

Client Sample ID: TP-27-6

Date Collected: 09/25/18 09:40

Date Received: 09/26/18 10:18

Lab Sample ID: 590-9464-5

Matrix: Solid

Percent Solids: 97.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			1.10 g	50 mL	19140	10/01/18 12:25	JSP	TAL SPK
Total/NA	Analysis	6010C		1			19229	10/03/18 18:05	JSP	TAL SPK

TestAmerica Spokane

Lab Chronicle

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014001

TestAmerica Job ID: 590-9464-1

Client Sample ID: TP-26-6

Date Collected: 09/25/18 09:55

Date Received: 09/26/18 10:18

Lab Sample ID: 590-9464-7

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			19108	09/28/18 10:27	MO	TAL SPK

Client Sample ID: TP-26-6

Date Collected: 09/25/18 09:55

Date Received: 09/26/18 10:18

Lab Sample ID: 590-9464-7

Matrix: Solid

Percent Solids: 97.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			1.20 g	50 mL	19140	10/01/18 12:25	JSP	TAL SPK
Total/NA	Analysis	6010C		1			19229	10/03/18 18:19	JSP	TAL SPK

Client Sample ID: TP-30-6

Date Collected: 09/25/18 10:25

Date Received: 09/26/18 10:18

Lab Sample ID: 590-9464-9

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			19108	09/28/18 10:27	MO	TAL SPK

Client Sample ID: TP-30-6

Date Collected: 09/25/18 10:25

Date Received: 09/26/18 10:18

Lab Sample ID: 590-9464-9

Matrix: Solid

Percent Solids: 92.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			15.56 g	2 mL	19137	10/01/18 09:55	NMI	TAL SPK
Total/NA	Analysis	8270D SIM		5			19135	10/01/18 14:44	NMI	TAL SPK
Total/NA	Prep	3050B			1.11 g	50 mL	19140	10/01/18 12:25	JSP	TAL SPK
Total/NA	Analysis	6010C		1			19229	10/03/18 18:22	JSP	TAL SPK

Client Sample ID: TP-28-6

Date Collected: 09/25/18 10:30

Date Received: 09/26/18 10:18

Lab Sample ID: 590-9464-11

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			19108	09/28/18 10:27	MO	TAL SPK

Client Sample ID: TP-28-6

Date Collected: 09/25/18 10:30

Date Received: 09/26/18 10:18

Lab Sample ID: 590-9464-11

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	3550C			15.00 g	2 mL	19137	10/01/18 09:55	NMI	TAL SPK
Total/NA	Analysis	8270D SIM		1			19135	10/01/18 15:09	NMI	TAL SPK
Total/NA	Prep	3050B			1.09 g	50 mL	19140	10/01/18 12:25	JSP	TAL SPK

TestAmerica Spokane

Lab Chronicle

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014001

TestAmerica Job ID: 590-9464-1

Client Sample ID: TP-28-6

Date Collected: 09/25/18 10:30

Date Received: 09/26/18 10:18

Lab Sample ID: 590-9464-11

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	Analysis	6010C		1			19229	10/03/18 18:26	JSP	TAL SPK

Client Sample ID: TP-29-6

Date Collected: 09/25/18 10:45

Date Received: 09/26/18 10:18

Lab Sample ID: 590-9464-13

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			19108	09/28/18 10:27	MO	TAL SPK

Client Sample ID: TP-29-6

Date Collected: 09/25/18 10:45

Date Received: 09/26/18 10:18

Lab Sample ID: 590-9464-13

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			15.41 g	2 mL	19137	10/01/18 09:55	NMI	TAL SPK
Total/NA	Analysis	8270D SIM		1			19135	10/01/18 15:34	NMI	TAL SPK
Total/NA	Prep	3050B			1.18 g	50 mL	19140	10/01/18 12:25	JSP	TAL SPK
Total/NA	Analysis	6010C		1			19229	10/03/18 18:30	JSP	TAL SPK

Client Sample ID: TP-31-6

Date Collected: 09/25/18 11:00

Date Received: 09/26/18 10:18

Lab Sample ID: 590-9464-15

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			19108	09/28/18 10:27	MO	TAL SPK

Client Sample ID: TP-31-6

Date Collected: 09/25/18 11:00

Date Received: 09/26/18 10:18

Lab Sample ID: 590-9464-15

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			15.90 g	2 mL	19137	10/01/18 09:55	NMI	TAL SPK
Total/NA	Analysis	8270D SIM		1			19135	10/01/18 15:59	NMI	TAL SPK
Total/NA	Prep	3050B			1.12 g	50 mL	19140	10/01/18 12:25	JSP	TAL SPK
Total/NA	Analysis	6010C		1			19229	10/03/18 18:33	JSP	TAL SPK

Client Sample ID: TP-33-6

Date Collected: 09/25/18 11:25

Date Received: 09/26/18 10:18

Lab Sample ID: 590-9464-17

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			19108	09/28/18 10:27	MO	TAL SPK

TestAmerica Spokane

Lab Chronicle

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014001

TestAmerica Job ID: 590-9464-1

Client Sample ID: TP-33-6

Lab Sample ID: 590-9464-17

Date Collected: 09/25/18 11:25

Matrix: Solid

Date Received: 09/26/18 10:18

Percent Solids: 93.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			15.73 g	2 mL	19137	10/01/18 09:55	NMI	TAL SPK
Total/NA	Analysis	8270D SIM		100			19135	10/01/18 16:23	NMI	TAL SPK
Total/NA	Prep	3050B			1.15 g	50 mL	19140	10/01/18 12:25	JSP	TAL SPK
Total/NA	Analysis	6010C		1			19229	10/03/18 18:37	JSP	TAL SPK

Client Sample ID: TP-18-18

Lab Sample ID: 590-9464-19

Date Collected: 09/25/18 11:45

Matrix: Solid

Date Received: 09/26/18 10:18

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			19108	09/28/18 10:27	MO	TAL SPK

Client Sample ID: TP-18-18

Lab Sample ID: 590-9464-19

Date Collected: 09/25/18 11:45

Matrix: Solid

Date Received: 09/26/18 10:18

Percent Solids: 95.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			15.97 g	2 mL	19137	10/01/18 09:55	NMI	TAL SPK
Total/NA	Analysis	8270D SIM		1			19135	10/01/18 16:48	NMI	TAL SPK

Client Sample ID: TP-32-6

Lab Sample ID: 590-9464-21

Date Collected: 09/25/18 12:10

Matrix: Solid

Date Received: 09/26/18 10:18

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			19108	09/28/18 10:27	MO	TAL SPK

Client Sample ID: TP-32-6

Lab Sample ID: 590-9464-21

Date Collected: 09/25/18 12:10

Matrix: Solid

Date Received: 09/26/18 10:18

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			15.14 g	2 mL	19137	10/01/18 09:55	NMI	TAL SPK
Total/NA	Analysis	8270D SIM		5			19135	10/01/18 17:13	NMI	TAL SPK
Total/NA	Prep	3050B			1.13 g	50 mL	19140	10/01/18 12:25	JSP	TAL SPK
Total/NA	Analysis	6010C		1			19229	10/03/18 18:41	JSP	TAL SPK

Lab Chronicle

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014001

TestAmerica Job ID: 590-9464-1

Client Sample ID: TP-34-6

Date Collected: 09/25/18 12:20

Date Received: 09/26/18 10:18

Lab Sample ID: 590-9464-23

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			19108	09/28/18 10:27	MO	TAL SPK

Client Sample ID: TP-34-6

Date Collected: 09/25/18 12:20

Date Received: 09/26/18 10:18

Lab Sample ID: 590-9464-23

Matrix: Solid

Percent Solids: 93.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			15.34 g	2 mL	19137	10/01/18 09:55	NMI	TAL SPK
Total/NA	Analysis	8270D SIM		1			19135	10/01/18 17:38	NMI	TAL SPK
Total/NA	Prep	3050B			1.19 g	50 mL	19140	10/01/18 12:25	JSP	TAL SPK
Total/NA	Analysis	6010C		1			19229	10/03/18 18:45	JSP	TAL SPK

Client Sample ID: TP-36-6

Date Collected: 09/25/18 12:30

Date Received: 09/26/18 10:18

Lab Sample ID: 590-9464-25

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			19112	09/28/18 10:59	MO	TAL SPK

Client Sample ID: TP-36-6

Date Collected: 09/25/18 12:30

Date Received: 09/26/18 10:18

Lab Sample ID: 590-9464-25

Matrix: Solid

Percent Solids: 94.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			15.73 g	2 mL	19137	10/01/18 09:55	NMI	TAL SPK
Total/NA	Analysis	8270D SIM		1			19135	10/01/18 18:03	NMI	TAL SPK
Total/NA	Prep	3050B			1.15 g	50 mL	19140	10/01/18 12:25	JSP	TAL SPK
Total/NA	Analysis	6010C		1			19229	10/03/18 18:48	JSP	TAL SPK

Client Sample ID: TP-38-6

Date Collected: 09/25/18 12:40

Date Received: 09/26/18 10:18

Lab Sample ID: 590-9464-27

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			19112	09/28/18 10:59	MO	TAL SPK

Client Sample ID: TP-38-6

Date Collected: 09/25/18 12:40

Date Received: 09/26/18 10:18

Lab Sample ID: 590-9464-27

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			15.55 g	2 mL	19137	10/01/18 09:55	NMI	TAL SPK

TestAmerica Spokane

Lab Chronicle

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014001

TestAmerica Job ID: 590-9464-1

Client Sample ID: TP-38-6

Date Collected: 09/25/18 12:40

Date Received: 09/26/18 10:18

Lab Sample ID: 590-9464-27

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			19135	10/01/18 18:27	NMI	TAL SPK
Total/NA	Prep	3050B			1.22 g	50 mL	19140	10/01/18 12:25	JSP	TAL SPK
Total/NA	Analysis	6010C		1			19229	10/03/18 18:52	JSP	TAL SPK

Client Sample ID: TP-40-6

Date Collected: 09/25/18 13:00

Date Received: 09/26/18 10:18

Lab Sample ID: 590-9464-29

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			19112	09/28/18 10:59	MO	TAL SPK

Client Sample ID: TP-40-6

Date Collected: 09/25/18 13:00

Date Received: 09/26/18 10:18

Lab Sample ID: 590-9464-29

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	3550C			15.79 g	2 mL	19137	10/01/18 09:55	NMI	TAL SPK
Total/NA	Analysis	8270D SIM		1			19135	10/01/18 18:52	NMI	TAL SPK
Total/NA	Prep	3050B			1.15 g	50 mL	19140	10/01/18 12:25	JSP	TAL SPK
Total/NA	Analysis	6010C		1			19229	10/03/18 19:05	JSP	TAL SPK

Client Sample ID: TP-19-18

Date Collected: 09/25/18 13:20

Date Received: 09/26/18 10:18

Lab Sample ID: 590-9464-31

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			19112	09/28/18 10:59	MO	TAL SPK

Client Sample ID: TP-19-18

Date Collected: 09/25/18 13:20

Date Received: 09/26/18 10:18

Lab Sample ID: 590-9464-31

Matrix: Solid

Percent Solids: 92.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			15.26 g	2 mL	19137	10/01/18 09:55	NMI	TAL SPK
Total/NA	Analysis	8270D SIM		2			19135	10/01/18 19:17	NMI	TAL SPK
Total/NA	Prep	3050B			1.24 g	50 mL	19140	10/01/18 12:25	JSP	TAL SPK
Total/NA	Analysis	6010C		1			19229	10/03/18 19:09	JSP	TAL SPK

TestAmerica Spokane

Lab Chronicle

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014001

TestAmerica Job ID: 590-9464-1

Client Sample ID: TP-37-6

Date Collected: 09/25/18 13:25

Date Received: 09/26/18 10:18

Lab Sample ID: 590-9464-33

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			19112	09/28/18 10:59	MO	TAL SPK

Client Sample ID: TP-37-6

Date Collected: 09/25/18 13:25

Date Received: 09/26/18 10:18

Lab Sample ID: 590-9464-33

Matrix: Solid

Percent Solids: 90.1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			15.65 g	2 mL	19137	10/01/18 09:55	NMI	TAL SPK
Total/NA	Analysis	8270D SIM		5			19135	10/01/18 19:42	NMI	TAL SPK
Total/NA	Prep	3050B			1.23 g	50 mL	19211	10/03/18 16:39	JSP	TAL SPK
Total/NA	Analysis	6010C		1			19257	10/04/18 16:37	JSP	TAL SPK

Client Sample ID: TP-35-6

Date Collected: 09/25/18 13:30

Date Received: 09/26/18 10:18

Lab Sample ID: 590-9464-35

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			19112	09/28/18 10:59	MO	TAL SPK

Client Sample ID: TP-35-6

Date Collected: 09/25/18 13:30

Date Received: 09/26/18 10:18

Lab Sample ID: 590-9464-35

Matrix: Solid

Percent Solids: 90.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			15.32 g	2 mL	19137	10/01/18 09:55	NMI	TAL SPK
Total/NA	Analysis	8270D SIM		5			19135	10/01/18 20:07	NMI	TAL SPK
Total/NA	Prep	3050B			1.17 g	50 mL	19211	10/03/18 16:39	JSP	TAL SPK
Total/NA	Analysis	6010C		1			19257	10/04/18 16:41	JSP	TAL SPK

Client Sample ID: TP-39-6

Date Collected: 09/25/18 13:40

Date Received: 09/26/18 10:18

Lab Sample ID: 590-9464-37

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			19112	09/28/18 10:59	MO	TAL SPK

Client Sample ID: TP-39-6

Date Collected: 09/25/18 13:40

Date Received: 09/26/18 10:18

Lab Sample ID: 590-9464-37

Matrix: Solid

Percent Solids: 89.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			15.58 g	2 mL	19137	10/01/18 09:55	NMI	TAL SPK

TestAmerica Spokane

Lab Chronicle

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014001

TestAmerica Job ID: 590-9464-1

Client Sample ID: TP-39-6

Lab Sample ID: 590-9464-37

Date Collected: 09/25/18 13:40

Matrix: Solid

Date Received: 09/26/18 10:18

Percent Solids: 89.4

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		10			19135	10/01/18 20:31	NMI	TAL SPK
Total/NA	Prep	3050B			1.15 g	50 mL	19211	10/03/18 16:39	JSP	TAL SPK
Total/NA	Analysis	6010C		1			19257	10/04/18 16:45	JSP	TAL SPK

Client Sample ID: TP-20-12

Lab Sample ID: 590-9464-42

Date Collected: 09/25/18 14:20

Matrix: Solid

Date Received: 09/26/18 10:18

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			19112	09/28/18 10:59	MO	TAL SPK

Client Sample ID: TP-20-12

Lab Sample ID: 590-9464-42

Date Collected: 09/25/18 14:20

Matrix: Solid

Date Received: 09/26/18 10:18

Percent Solids: 96.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			15.35 g	2 mL	19137	10/01/18 09:55	NMI	TAL SPK
Total/NA	Analysis	8270D SIM		1			19135	10/01/18 20:57	NMI	TAL SPK

Client Sample ID: TP-42-6

Lab Sample ID: 590-9464-45

Date Collected: 09/25/18 14:30

Matrix: Solid

Date Received: 09/26/18 10:18

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			19112	09/28/18 10:59	MO	TAL SPK

Client Sample ID: TP-42-6

Lab Sample ID: 590-9464-45

Date Collected: 09/25/18 14:30

Matrix: Solid

Date Received: 09/26/18 10:18

Percent Solids: 95.1

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	19137	10/01/18 09:55	NMI	TAL SPK
Total/NA	Analysis	8270D SIM		1			19135	10/01/18 21:21	NMI	TAL SPK
Total/NA	Prep	3050B			1.41 g	50 mL	19211	10/03/18 16:39	JSP	TAL SPK
Total/NA	Analysis	6010C		1			19257	10/04/18 16:48	JSP	TAL SPK

Client Sample ID: TP-43-6

Lab Sample ID: 590-9464-47

Date Collected: 09/25/18 14:45

Matrix: Solid

Date Received: 09/26/18 10:18

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			19112	09/28/18 10:59	MO	TAL SPK

TestAmerica Spokane

Lab Chronicle

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014001

TestAmerica Job ID: 590-9464-1

Client Sample ID: TP-43-6

Lab Sample ID: 590-9464-47

Date Collected: 09/25/18 14:45

Matrix: Solid

Date Received: 09/26/18 10:18

Percent Solids: 96.1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			15.19 g	2 mL	19137	10/01/18 09:55	NMI	TAL SPK
Total/NA	Analysis	8270D SIM		1			19135	10/01/18 21:46	NMI	TAL SPK
Total/NA	Prep	3050B			1.36 g	50 mL	19211	10/03/18 16:39	JSP	TAL SPK
Total/NA	Analysis	6010C		1			19257	10/04/18 16:52	JSP	TAL SPK

Client Sample ID: SP-1

Lab Sample ID: 590-9464-49

Date Collected: 09/25/18 15:20

Matrix: Solid

Date Received: 09/26/18 10:18

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			19112	09/28/18 10:59	MO	TAL SPK

Client Sample ID: SP-1

Lab Sample ID: 590-9464-49

Date Collected: 09/25/18 15:20

Matrix: Solid

Date Received: 09/26/18 10:18

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			15.35 g	2 mL	19137	10/01/18 09:55	NMI	TAL SPK
Total/NA	Analysis	8270D SIM		50			19135	10/01/18 22:11	NMI	TAL SPK
Total/NA	Prep	NWTPH-HCID			10.34 g	20 mL	19218	10/03/18 17:31	NMI	TAL SPK
Total/NA	Analysis	NWTPH-HCID		1			19220	10/04/18 13:05	NMI	TAL SPK
Total/NA	Prep	3050B			1.31 g	50 mL	19211	10/03/18 16:39	JSP	TAL SPK
Total/NA	Analysis	6010C		1			19257	10/04/18 16:56	JSP	TAL SPK

Client Sample ID: SP-2

Lab Sample ID: 590-9464-50

Date Collected: 09/25/18 15:30

Matrix: Solid

Date Received: 09/26/18 10:18

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			19112	09/28/18 10:59	MO	TAL SPK

Client Sample ID: SP-2

Lab Sample ID: 590-9464-50

Date Collected: 09/25/18 15:30

Matrix: Solid

Date Received: 09/26/18 10:18

Percent Solids: 95.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			15.03 g	2 mL	19137	10/01/18 09:55	NMI	TAL SPK
Total/NA	Analysis	8270D SIM		50			19135	10/01/18 22:36	NMI	TAL SPK
Total/NA	Prep	NWTPH-HCID			10.68 g	20 mL	19218	10/03/18 17:31	NMI	TAL SPK
Total/NA	Analysis	NWTPH-HCID		1			19220	10/04/18 13:28	NMI	TAL SPK
Total/NA	Prep	3050B			1.55 g	50 mL	19211	10/03/18 16:39	JSP	TAL SPK
Total/NA	Analysis	6010C		1			19257	10/04/18 17:00	JSP	TAL SPK

TestAmerica Spokane

Lab Chronicle

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014001

TestAmerica Job ID: 590-9464-1

Client Sample ID: SP-3

Lab Sample ID: 590-9464-51

Date Collected: 09/25/18 15:47

Matrix: Solid

Date Received: 09/26/18 10:18

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			19112	09/28/18 10:59	MO	TAL SPK

Client Sample ID: SP-3

Lab Sample ID: 590-9464-51

Date Collected: 09/25/18 15:47

Matrix: Solid

Date Received: 09/26/18 10:18

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	3550C			15.04 g	2 mL	19192	10/03/18 10:40	NMI	TAL SPK
Total/NA	Analysis	8270D SIM		5			19190	10/03/18 20:03	NMI	TAL SPK
Total/NA	Prep	NWTPH-HCID			10.35 g	20 mL	19218	10/03/18 17:31	NMI	TAL SPK
Total/NA	Analysis	NWTPH-HCID		1			19220	10/04/18 13:51	NMI	TAL SPK
Total/NA	Prep	3050B			1.27 g	50 mL	19211	10/03/18 16:39	JSP	TAL SPK
Total/NA	Analysis	6010C		1			19257	10/04/18 17:03	JSP	TAL SPK

Client Sample ID: SP-4

Lab Sample ID: 590-9464-52

Date Collected: 09/25/18 15:52

Matrix: Solid

Date Received: 09/26/18 10:18

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			19112	09/28/18 10:59	MO	TAL SPK

Client Sample ID: SP-4

Lab Sample ID: 590-9464-52

Date Collected: 09/25/18 15:52

Matrix: Solid

Date Received: 09/26/18 10:18

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			15.31 g	2 mL	19192	10/03/18 10:40	NMI	TAL SPK
Total/NA	Analysis	8270D SIM		1			19190	10/03/18 20:28	NMI	TAL SPK
Total/NA	Prep	NWTPH-HCID			10.50 g	20 mL	19218	10/03/18 17:31	NMI	TAL SPK
Total/NA	Analysis	NWTPH-HCID		1			19220	10/04/18 12:19	NMI	TAL SPK
Total/NA	Prep	3050B			1.25 g	50 mL	19211	10/03/18 16:39	JSP	TAL SPK
Total/NA	Analysis	6010C		1			19257	10/04/18 17:07	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: CVSD/15014001

TestAmerica Job ID: 590-9464-1

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 the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids
NWTPH-HCID	NWTPH-HCID	Solid	Diesel Range Organics (DRO) (C10-C25)
NWTPH-HCID	NWTPH-HCID	Solid	Gasoline Range Organics [C6 - C10]
NWTPH-HCID	NWTPH-HCID	Solid	Residual Range Organics (RRO) (C25-C36)

Method Summary

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014001

TestAmerica Job ID: 590-9464-1

Method	Method Description	Protocol	Laboratory
8270D SIM	Semivolatile Organic Compounds (GC/MS SIM)	SW846	TAL SPK
NWTPH-HCID	Northwest - Hydrocarbon Identification (GC)	NWTPH	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
NWTPH-HCID	Solvent Extraction	NWTPH	TAL SPK

Protocol References:

EPA = US Environmental Protection Agency

NWTPH = Northwest Total Petroleum Hydrocarbon

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 AREA 104

HART CROWSER Page 1 of 5

Hart Crowser, Inc.
3131 Elliott Avenue, Suite 600
Seattle, Washington 98122
Office: 206.324.9530 • Fax 206.328.5582
07/5/2018

JOB 15014001 LAB NUMBER _____
 PROJECT NAME CVSD
 HART CROWSER CONTACT J. Havey
 SAMPLED BY: WDM/KH

REQUESTED ANALYSIS			
LEAD			
As			
PAH's			
TPH-HCHD			

NO. OF CONTAINERS

590-9464 Chain of Custody



LAB NO.	SAMPLE ID	DESCRIPTION	DATE	TIME	MATRIX	REQUESTED ANALYSIS				NO. OF CONTAINERS
	TP-24-G		9/25/18	0915	Soil	X	X	X	X	1
	TP-24-12			0916		X	X	X	X	Hold Pb only
	TP-25-G			0925		X	X	X	X	Hold Pb only
	TP-25-12			0926		X	X	X	X	Hold Pb only
	TP-27-G			0940		X	X	X	X	Hold Pb only
	TP-27-12			0941		X	X	X	X	Hold Pb only
	TP-26-G			0955		X	X	X	X	Hold Pb only
	TP-26-12			0956		X	X	X	X	Hold Pb only
	TP-30-G			1025		X	X	X	X	Hold
	TP-30-12			1026		X	X	X	X	Hold
	TP-28-G			1030		X	X	X	X	Hold
	TP-28-12			1031		X	X	X	X	Hold

RELINQUISHED BY: [Signature] DATE: 9/26/18
 SIGNATURE: [Signature] TIME: _____
 PRINT NAME: John McDevitt
 COMPANY: _____

RECEIVED BY: [Signature] DATE: 9/26/18
 SIGNATURE: [Signature] TIME: _____
 PRINT NAME: Rain Kirtz
 COMPANY: _____

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

SPECIAL SHIPMENT HANDLING OR STORAGE REQUIREMENTS:
TP-24-G TO TP-27-G Pb only

COOLER NO.: _____ STORAGE LOCATION: _____

TOTAL NUMBER OF CONTAINERS

SAMPLE RECEIPT INFORMATION

CUSTODY SEALS: YES NO N/A

GOOD CONDITION: YES NO

TEMPERATURE: 2.6 C TPCOY

SHIPMENT METHOD: HAND COURIER OVERNIGHT

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

Sample Custody Record

Samples Shipped to: TEST AMERICA

HART CROWSER Page 2 of 5

Hart Crowser, Inc.
3131 Elliott Avenue, Suite 602
Seattle, Washington 98122
Office: 206.324.9530 • Fax 206.328.5582
07/5/2018

JOB 15014001 LAB NUMBER _____
 PROJECT NAME CVSD
 HART CROWSER CONTACT J. HANEY
 SAMPLED BY: NJM/KH

REQUESTED ANALYSIS	
<input checked="" type="checkbox"/>	REND
<input checked="" type="checkbox"/>	AS
<input checked="" type="checkbox"/>	PAHS
<input checked="" type="checkbox"/>	TPH-HCID

NO. OF CONTAINERS _____
 OBSERVATIONS/COMMENTS/
 COMPOSITING INSTRUCTIONS

LAB NO.	SAMPLE ID	DESCRIPTION	DATE	TIME	MATRIX	REQUESTED ANALYSIS		NO. OF CONTAINERS	OBSERVATIONS/COMMENTS/ COMPOSITING INSTRUCTIONS
	TP-29-6		9/25/18	1045	Soil	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	1	Hold
	TP-29-12		10/16			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	1	Hold
	TP-31-6		11/06			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	1	Hold
	TP-31-12		11/01			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	1	Hold
	TP-33-6		11/25			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	1	Hold
	TP-33-12		11/26			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	1	Hold
	TP-18-18		11/45			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	1	PAHS ONLY
	TP-18-24		11/16			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	1	Hold
	TP-32-6		12/10			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	1	Hold
	TP-32-12		12/11			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	1	Hold
	TP-34-6		12/20			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	1	Hold
	TP-34-12		12/21			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	1	Hold

RELINQUISHED BY: [Signature] DATE: 9/25/18
 RECEIVED BY: [Signature] DATE: 9/26/18
 SIGNATURE: [Signature] TIME: 10:15
 PRINT NAME: THOMAS KRATZ
 COMPANY: TA

SPECIAL SHIPMENT HANDLING OR STORAGE REQUIREMENTS:
TP-18-18 PAHs ONLY

TOTAL NUMBER OF CONTAINERS: _____
 SAMPLE RECEIPT INFORMATION
 CUSTODY SEALS: YES NO N/A
 GOOD CONDITION: YES NO
 TEMPERATURE: 2.6 STABLY
 SHIPMENT METHOD: HAND COURIER OVERNIGHT

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

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 _____

- 1
- 2
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Sample Custody Record

Samples Shipped to: TEST AMERICA

HART CROWSER
PHASE 3 OF 5

Hart Crowser, Inc.
 3131 Elliott Avenue, Suite 600
 Seattle, Washington 98122
 Office: 206.324.9530 • Fax 206.328.5580
 10/5/2018

JOB 15014001 LAB NUMBER _____
 PROJECT NAME CVSD
 HART CROWSER CONTACT J. HANEY
 SAMPLED BY: Wm/KH

REQUESTED ANALYSIS			
<u>LEAD</u>			
<u>AS</u>			
<u>PHAS</u>			
<u>TPH-ACID</u>			

NO. OF CONTAINERS _____
 OBSERVATIONS/COMMENTS/
 COMPOSITING INSTRUCTIONS

LAB NO.	SAMPLE ID	DESCRIPTION	DATE	TIME	MATRIX	LEAD	AS	PHAS	TPH-ACID	NO. OF CONTAINERS	OBSERVATIONS/COMMENTS/ COMPOSITING INSTRUCTIONS
	TP-36-6		9/25/18	1230	Soil	X	X	X		1	Hold
	TP-36-12			1231							Hold
	TP-38-6			1240		X	X	X			Hold
	TP-38-12			1241							Hold
	TP-40-6			1300		X	X	Y			Hold
	TP-40-12			1301							Hold
	TP-19-N			1320		X	X	X			Hold
	TP-19-24			1321							Hold
	TP-37-6			1325		X	X	X			Hold
	TP-37-12			1326							Hold
	TP-35-6			1330		X	X	X			Hold
	TP-35-12			1331							Hold

RELINQUISHED BY: _____ DATE: _____
 RECEIVED BY: _____ DATE: _____
 SIGNATURE: _____ TIME: _____
 PRINT NAME: Wm Crowser COMPANY: _____
 SIGNATURE: _____ TIME: _____
 PRINT NAME: JA Spivey COMPANY: _____
 DATE: _____
 RECEIVED BY: _____ DATE: _____
 SIGNATURE: _____ TIME: _____
 PRINT NAME: _____ COMPANY: _____

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: 2.6 STABBY
 SHIPMENT METHOD: HAND COURIER OVERNIGHT

Sample Custody Record

Samples Shipped to: TEST AMERICA

Hart Crowser, Inc.
3131 Elliott Avenue, Suite 600
Seattle, Washington 98112
Office: 206.324.9530 • Fax 206.328.5588

JOB 15-014601 LAB NUMBER _____
 PROJECT NAME CVSD
 HART CROWSER CONTACT J. Haney
 SAMPLED BY: WOM/KH

REQUESTED ANALYSIS	
<input checked="" type="checkbox"/>	LEAD
<input checked="" type="checkbox"/>	AS
<input checked="" type="checkbox"/>	PATHS
<input checked="" type="checkbox"/>	TPH-HCID

NO. OF CONTAINERS _____

OBSERVATIONS/COMMENTS/
COMPOSITING INSTRUCTIONS

LAB NO.	SAMPLE ID	DESCRIPTION	DATE	TIME	MATRIX	SPECIAL SHIPMENT HANDLING OR STORAGE REQUIREMENTS:		TOTAL NUMBER OF CONTAINERS
	TP-39-6		9/21/18	1340	Soil	X	X	1
	TP-39-12			1341				Hold
	TP-40-6			1355		X	X	Hold
	TP-40-12			1356		X	X	Hold
	TP-41-6			1400		X	X	Hold
	TP-41-12			1401		X	X	Parts only
	TP-20-12			1420				Hold
	TP-20-18			1421				Hold
	TP-20-24			1422				Hold
	TP-42-6			1436		X	X	Hold
	TP-42-12			1431				
	TP-43-6			1445		X	X	Hold

RELINQUISHED BY: [Signature] DATE: 9/21/18
 SIGNATURE: [Signature] TIME: 9:00 AM
 PRINT NAME: John McDevitt
 COMPANY: [Signature]

RECEIVED BY: [Signature] DATE: 9/21/18
 SIGNATURE: [Signature] TIME: 10:18
 PRINT NAME: JA DPC
 COMPANY: [Signature]

COOLER NO.: _____ STORAGE LOCATION: _____

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

White to Lab Yellow to Project Manager Pink to Sample Custodian

See Lab Work Order No. _____
 for Other Contract Requirements

- 1
- 2
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Sample Custody Record

Samples Shipped to: TEST AMERICA

HART CROWSER PAGE 5 OF 5

Hart Crowser, Inc.
3131 Elliott Avenue, Suite 600
Seattle, Washington 98148
Office: 206.324.9530 • Fax 206.328.5500

JOB <u>15904001</u> LAB NUMBER _____		PROJECT NAME <u>CVSD</u>		HART CROWSER CONTACT <u>J. Harvey</u>		SAMPLED BY: <u>con/kit</u>		REQUESTED ANALYSIS		NO. OF CONTAINERS		OBSERVATIONS/COMMENTS/ COMPOSITING INSTRUCTIONS		
LAB NO.	SAMPLE ID	DESCRIPTION	DATE	TIME	MATRIX									
	<u>TP-43</u>	<u>-12</u>	<u>9/22/10</u>	<u>1446</u>	<u>Soil</u>									
	<u>SP-1</u>			<u>1520</u>		X	X	X					<u>1</u>	
	<u>SP-2</u>			<u>1530</u>		X	X	X					<u>1</u>	
	<u>SP-3</u>			<u>1547</u>		X	X	X					<u>1</u>	
	<u>SP-4</u>			<u>1552</u>		X	X	X					<u>1</u>	
SPECIAL SHIPMENT HANDLING OR STORAGE REQUIREMENTS:													TOTAL NUMBER OF CONTAINERS	
RELINQUISHED BY <u>[Signature]</u> DATE <u>9/21/10</u> TIME <u>10:15</u>													SAMPLE RECEIPT INFORMATION	
RECEIVED BY <u>[Signature]</u> DATE <u>9/21/10</u> TIME <u>10:16</u>													CUSTODY SEALS:	
SIGNATURE <u>[Signature]</u> TIME <u>10:15</u>													GOOD CONDITION <input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A	
PRINT NAME <u>[Name]</u> COMPANY <u>[Company]</u>													TEMPERATURE <u>[Temp]</u> SHIPMENT METHOD: <input type="checkbox"/> HAND <input type="checkbox"/> COURIER <input type="checkbox"/> OVERNIGHT	
RELINQUISHED BY _____ DATE _____													TURNAROUND TIME:	
SIGNATURE _____ TIME _____													<input type="checkbox"/> 24 HOURS <input type="checkbox"/> 1 WEEK	
PRINT NAME _____ COMPANY _____													<input type="checkbox"/> 48 HOURS <input checked="" type="checkbox"/> STANDARD	
COMPANY _____													<input type="checkbox"/> 72 HOURS OTHER _____	
COOLER NO.: _____ STORAGE LOCATION: _____													See Lab Work Order No. _____ for Other Contract Requirements	

White to Lab Yellow to Project Manager Pink to Sample Custodian

Login Sample Receipt Checklist

Client: Hart Crowser, Inc.

Job Number: 590-9464-1

Login Number: 9464

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	
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.	True	
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

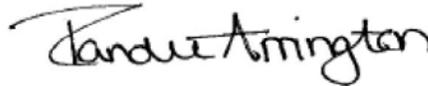
ANALYTICAL REPORT

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

TestAmerica Job ID: 590-9901-2
Client Project/Site: CVSD/15014001

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

Attn: John Haney



Authorized for release by:
11/13/2018 3:12:44 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.

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Chain of Custody	18
Receipt Checklists	22

Case Narrative

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014001

TestAmerica Job ID: 590-9901-2

Job ID: 590-9901-2

Laboratory: TestAmerica Spokane

Narrative

Receipt

The samples were received on 11/8/2018 4:20 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.9° C.

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.

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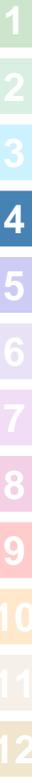
12

Sample Summary

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014001

TestAmerica Job ID: 590-9901-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
590-9901-3	TP-57-6	Solid	11/08/18 11:06	11/08/18 16:20
590-9901-5	TP-58-6	Solid	11/08/18 10:20	11/08/18 16:20
590-9901-7	TP-59-6	Solid	11/08/18 15:01	11/08/18 16:20
590-9901-9	TP-60-6	Solid	11/08/18 10:30	11/08/18 16:20
590-9901-11	TP-61-6	Solid	11/08/18 11:05	11/08/18 16:20
590-9901-37	TP-62-6	Solid	11/08/18 10:50	11/08/18 16:20
590-9901-39	TP-63-6	Solid	11/08/18 11:10	11/08/18 16:20



Definitions/Glossary

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014001

TestAmerica Job ID: 590-9901-2

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: CVSD/15014001

TestAmerica Job ID: 590-9901-2

Client Sample ID: TP-57-6

Date Collected: 11/08/18 11:06

Date Received: 11/08/18 16:20

Lab Sample ID: 590-9901-3

Matrix: Solid

Percent Solids: 86.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		12		ug/Kg	☼	11/09/18 11:14	11/09/18 17:09	1
2-Methylnaphthalene	ND		12		ug/Kg	☼	11/09/18 11:14	11/09/18 17:09	1
1-Methylnaphthalene	ND		12		ug/Kg	☼	11/09/18 11:14	11/09/18 17:09	1
Acenaphthylene	ND		12		ug/Kg	☼	11/09/18 11:14	11/09/18 17:09	1
Acenaphthene	ND		12		ug/Kg	☼	11/09/18 11:14	11/09/18 17:09	1
Fluorene	ND		12		ug/Kg	☼	11/09/18 11:14	11/09/18 17:09	1
Phenanthrene	34		12		ug/Kg	☼	11/09/18 11:14	11/09/18 17:09	1
Anthracene	ND		12		ug/Kg	☼	11/09/18 11:14	11/09/18 17:09	1
Fluoranthene	89		12		ug/Kg	☼	11/09/18 11:14	11/09/18 17:09	1
Pyrene	120		12		ug/Kg	☼	11/09/18 11:14	11/09/18 17:09	1
Benzo[a]anthracene	72		12		ug/Kg	☼	11/09/18 11:14	11/09/18 17:09	1
Chrysene	100		12		ug/Kg	☼	11/09/18 11:14	11/09/18 17:09	1
Benzo[b]fluoranthene	120		12		ug/Kg	☼	11/09/18 11:14	11/09/18 17:09	1
Benzo[k]fluoranthene	50		12		ug/Kg	☼	11/09/18 11:14	11/09/18 17:09	1
Benzo[a]pyrene	110		12		ug/Kg	☼	11/09/18 11:14	11/09/18 17:09	1
Indeno[1,2,3-cd]pyrene	65		12		ug/Kg	☼	11/09/18 11:14	11/09/18 17:09	1
Dibenz(a,h)anthracene	21		12		ug/Kg	☼	11/09/18 11:14	11/09/18 17:09	1
Benzo[g,h,i]perylene	83		12		ug/Kg	☼	11/09/18 11:14	11/09/18 17:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	71		23 - 120	11/09/18 11:14	11/09/18 17:09	1
2-Fluorobiphenyl (Surr)	74		38 - 123	11/09/18 11:14	11/09/18 17:09	1
p-Terphenyl-d14	86		68 - 136	11/09/18 11:14	11/09/18 17:09	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	40		2.8		mg/Kg	☼	11/12/18 09:42	11/12/18 17:51	1

Client Sample ID: TP-58-6

Date Collected: 11/08/18 10:20

Date Received: 11/08/18 16:20

Lab Sample ID: 590-9901-5

Matrix: Solid

Percent Solids: 86.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		12		ug/Kg	☼	11/09/18 11:14	11/09/18 17:34	1
2-Methylnaphthalene	ND		12		ug/Kg	☼	11/09/18 11:14	11/09/18 17:34	1
1-Methylnaphthalene	ND		12		ug/Kg	☼	11/09/18 11:14	11/09/18 17:34	1
Acenaphthylene	ND		12		ug/Kg	☼	11/09/18 11:14	11/09/18 17:34	1
Acenaphthene	ND		12		ug/Kg	☼	11/09/18 11:14	11/09/18 17:34	1
Fluorene	ND		12		ug/Kg	☼	11/09/18 11:14	11/09/18 17:34	1
Phenanthrene	ND		12		ug/Kg	☼	11/09/18 11:14	11/09/18 17:34	1
Anthracene	ND		12		ug/Kg	☼	11/09/18 11:14	11/09/18 17:34	1
Fluoranthene	ND		12		ug/Kg	☼	11/09/18 11:14	11/09/18 17:34	1
Pyrene	14		12		ug/Kg	☼	11/09/18 11:14	11/09/18 17:34	1
Benzo[a]anthracene	ND		12		ug/Kg	☼	11/09/18 11:14	11/09/18 17:34	1
Chrysene	12		12		ug/Kg	☼	11/09/18 11:14	11/09/18 17:34	1
Benzo[b]fluoranthene	14		12		ug/Kg	☼	11/09/18 11:14	11/09/18 17:34	1
Benzo[k]fluoranthene	ND		12		ug/Kg	☼	11/09/18 11:14	11/09/18 17:34	1
Benzo[a]pyrene	13		12		ug/Kg	☼	11/09/18 11:14	11/09/18 17:34	1
Indeno[1,2,3-cd]pyrene	ND		12		ug/Kg	☼	11/09/18 11:14	11/09/18 17:34	1

TestAmerica Spokane

Client Sample Results

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014001

TestAmerica Job ID: 590-9901-2

Client Sample ID: TP-58-6

Date Collected: 11/08/18 10:20

Date Received: 11/08/18 16:20

Lab Sample ID: 590-9901-5

Matrix: Solid

Percent Solids: 86.1

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	ND		12		ug/Kg	☼	11/09/18 11:14	11/09/18 17:34	1
Benzo[g,h,i]perylene	ND		12		ug/Kg	☼	11/09/18 11:14	11/09/18 17:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	79		23 - 120				11/09/18 11:14	11/09/18 17:34	1
2-Fluorobiphenyl (Surr)	88		38 - 123				11/09/18 11:14	11/09/18 17:34	1
p-Terphenyl-d14	99		68 - 136				11/09/18 11:14	11/09/18 17:34	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	17		2.7		mg/Kg	☼	11/12/18 09:42	11/12/18 17:54	1

Client Sample ID: TP-59-6

Date Collected: 11/08/18 15:01

Date Received: 11/08/18 16:20

Lab Sample ID: 590-9901-7

Matrix: Solid

Percent Solids: 81.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		12		ug/Kg	☼	11/09/18 11:14	11/09/18 17:59	1
2-Methylnaphthalene	ND		12		ug/Kg	☼	11/09/18 11:14	11/09/18 17:59	1
1-Methylnaphthalene	ND		12		ug/Kg	☼	11/09/18 11:14	11/09/18 17:59	1
Acenaphthylene	ND		12		ug/Kg	☼	11/09/18 11:14	11/09/18 17:59	1
Acenaphthene	ND		12		ug/Kg	☼	11/09/18 11:14	11/09/18 17:59	1
Fluorene	ND		12		ug/Kg	☼	11/09/18 11:14	11/09/18 17:59	1
Phenanthrene	ND		12		ug/Kg	☼	11/09/18 11:14	11/09/18 17:59	1
Anthracene	ND		12		ug/Kg	☼	11/09/18 11:14	11/09/18 17:59	1
Fluoranthene	ND		12		ug/Kg	☼	11/09/18 11:14	11/09/18 17:59	1
Pyrene	ND		12		ug/Kg	☼	11/09/18 11:14	11/09/18 17:59	1
Benzo[a]anthracene	ND		12		ug/Kg	☼	11/09/18 11:14	11/09/18 17:59	1
Chrysene	ND		12		ug/Kg	☼	11/09/18 11:14	11/09/18 17:59	1
Benzo[b]fluoranthene	ND		12		ug/Kg	☼	11/09/18 11:14	11/09/18 17:59	1
Benzo[k]fluoranthene	ND		12		ug/Kg	☼	11/09/18 11:14	11/09/18 17:59	1
Benzo[a]pyrene	ND		12		ug/Kg	☼	11/09/18 11:14	11/09/18 17:59	1
Indeno[1,2,3-cd]pyrene	ND		12		ug/Kg	☼	11/09/18 11:14	11/09/18 17:59	1
Dibenz(a,h)anthracene	ND		12		ug/Kg	☼	11/09/18 11:14	11/09/18 17:59	1
Benzo[g,h,i]perylene	ND		12		ug/Kg	☼	11/09/18 11:14	11/09/18 17:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	80		23 - 120				11/09/18 11:14	11/09/18 17:59	1
2-Fluorobiphenyl (Surr)	86		38 - 123				11/09/18 11:14	11/09/18 17:59	1
p-Terphenyl-d14	96		68 - 136				11/09/18 11:14	11/09/18 17:59	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	13		2.9		mg/Kg	☼	11/12/18 09:42	11/12/18 17:58	1

TestAmerica Spokane

Client Sample Results

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014001

TestAmerica Job ID: 590-9901-2

Client Sample ID: TP-60-6

Date Collected: 11/08/18 10:30

Date Received: 11/08/18 16:20

Lab Sample ID: 590-9901-9

Matrix: Solid

Percent Solids: 80.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		12		ug/Kg	☼	11/09/18 11:14	11/09/18 18:24	1
2-Methylnaphthalene	ND		12		ug/Kg	☼	11/09/18 11:14	11/09/18 18:24	1
1-Methylnaphthalene	ND		12		ug/Kg	☼	11/09/18 11:14	11/09/18 18:24	1
Acenaphthylene	ND		12		ug/Kg	☼	11/09/18 11:14	11/09/18 18:24	1
Acenaphthene	77		12		ug/Kg	☼	11/09/18 11:14	11/09/18 18:24	1
Fluorene	23		12		ug/Kg	☼	11/09/18 11:14	11/09/18 18:24	1
Phenanthrene	410		12		ug/Kg	☼	11/09/18 11:14	11/09/18 18:24	1
Anthracene	97		12		ug/Kg	☼	11/09/18 11:14	11/09/18 18:24	1
Fluoranthene	1100		12		ug/Kg	☼	11/09/18 11:14	11/09/18 18:24	1
Pyrene	1400		12		ug/Kg	☼	11/09/18 11:14	11/09/18 18:24	1
Benzo[a]anthracene	870		12		ug/Kg	☼	11/09/18 11:14	11/09/18 18:24	1
Chrysene	1200		12		ug/Kg	☼	11/09/18 11:14	11/09/18 18:24	1
Benzo[b]fluoranthene	1400		12		ug/Kg	☼	11/09/18 11:14	11/09/18 18:24	1
Benzo[k]fluoranthene	630		12		ug/Kg	☼	11/09/18 11:14	11/09/18 18:24	1
Benzo[a]pyrene	1400		12		ug/Kg	☼	11/09/18 11:14	11/09/18 18:24	1
Indeno[1,2,3-cd]pyrene	810		12		ug/Kg	☼	11/09/18 11:14	11/09/18 18:24	1
Dibenz(a,h)anthracene	270		12		ug/Kg	☼	11/09/18 11:14	11/09/18 18:24	1
Benzo[g,h,i]perylene	960		12		ug/Kg	☼	11/09/18 11:14	11/09/18 18:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	70		23 - 120	11/09/18 11:14	11/09/18 18:24	1
2-Fluorobiphenyl (Surr)	79		38 - 123	11/09/18 11:14	11/09/18 18:24	1
p-Terphenyl-d14	82		68 - 136	11/09/18 11:14	11/09/18 18:24	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	330		2.9		mg/Kg	☼	11/12/18 09:42	11/12/18 18:02	1

Client Sample ID: TP-61-6

Date Collected: 11/08/18 11:05

Date Received: 11/08/18 16:20

Lab Sample ID: 590-9901-11

Matrix: Solid

Percent Solids: 81.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		12		ug/Kg	☼	11/09/18 11:14	11/09/18 18:49	1
2-Methylnaphthalene	ND		12		ug/Kg	☼	11/09/18 11:14	11/09/18 18:49	1
1-Methylnaphthalene	ND		12		ug/Kg	☼	11/09/18 11:14	11/09/18 18:49	1
Acenaphthylene	ND		12		ug/Kg	☼	11/09/18 11:14	11/09/18 18:49	1
Acenaphthene	ND		12		ug/Kg	☼	11/09/18 11:14	11/09/18 18:49	1
Fluorene	ND		12		ug/Kg	☼	11/09/18 11:14	11/09/18 18:49	1
Phenanthrene	ND		12		ug/Kg	☼	11/09/18 11:14	11/09/18 18:49	1
Anthracene	ND		12		ug/Kg	☼	11/09/18 11:14	11/09/18 18:49	1
Fluoranthene	ND		12		ug/Kg	☼	11/09/18 11:14	11/09/18 18:49	1
Pyrene	ND		12		ug/Kg	☼	11/09/18 11:14	11/09/18 18:49	1
Benzo[a]anthracene	ND		12		ug/Kg	☼	11/09/18 11:14	11/09/18 18:49	1
Chrysene	ND		12		ug/Kg	☼	11/09/18 11:14	11/09/18 18:49	1
Benzo[b]fluoranthene	ND		12		ug/Kg	☼	11/09/18 11:14	11/09/18 18:49	1
Benzo[k]fluoranthene	ND		12		ug/Kg	☼	11/09/18 11:14	11/09/18 18:49	1
Benzo[a]pyrene	ND		12		ug/Kg	☼	11/09/18 11:14	11/09/18 18:49	1
Indeno[1,2,3-cd]pyrene	ND		12		ug/Kg	☼	11/09/18 11:14	11/09/18 18:49	1

TestAmerica Spokane

Client Sample Results

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014001

TestAmerica Job ID: 590-9901-2

Client Sample ID: TP-61-6

Date Collected: 11/08/18 11:05

Date Received: 11/08/18 16:20

Lab Sample ID: 590-9901-11

Matrix: Solid

Percent Solids: 81.0

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	ND		12		ug/Kg	☼	11/09/18 11:14	11/09/18 18:49	1
Benzo[g,h,i]perylene	ND		12		ug/Kg	☼	11/09/18 11:14	11/09/18 18:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	72		23 - 120				11/09/18 11:14	11/09/18 18:49	1
2-Fluorobiphenyl (Surr)	72		38 - 123				11/09/18 11:14	11/09/18 18:49	1
p-Terphenyl-d14	86		68 - 136				11/09/18 11:14	11/09/18 18:49	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	9.8		2.7		mg/Kg	☼	11/12/18 09:42	11/12/18 18:06	1

Client Sample ID: TP-62-6

Date Collected: 11/08/18 10:50

Date Received: 11/08/18 16:20

Lab Sample ID: 590-9901-37

Matrix: Solid

Percent Solids: 77.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		12		ug/Kg	☼	11/09/18 11:14	11/09/18 19:14	1
2-Methylnaphthalene	ND		12		ug/Kg	☼	11/09/18 11:14	11/09/18 19:14	1
1-Methylnaphthalene	ND		12		ug/Kg	☼	11/09/18 11:14	11/09/18 19:14	1
Acenaphthylene	ND		12		ug/Kg	☼	11/09/18 11:14	11/09/18 19:14	1
Acenaphthene	ND		12		ug/Kg	☼	11/09/18 11:14	11/09/18 19:14	1
Fluorene	ND		12		ug/Kg	☼	11/09/18 11:14	11/09/18 19:14	1
Phenanthrene	35		12		ug/Kg	☼	11/09/18 11:14	11/09/18 19:14	1
Anthracene	ND		12		ug/Kg	☼	11/09/18 11:14	11/09/18 19:14	1
Fluoranthene	66		12		ug/Kg	☼	11/09/18 11:14	11/09/18 19:14	1
Pyrene	82		12		ug/Kg	☼	11/09/18 11:14	11/09/18 19:14	1
Benzo[a]anthracene	46		12		ug/Kg	☼	11/09/18 11:14	11/09/18 19:14	1
Chrysene	59		12		ug/Kg	☼	11/09/18 11:14	11/09/18 19:14	1
Benzo[b]fluoranthene	64		12		ug/Kg	☼	11/09/18 11:14	11/09/18 19:14	1
Benzo[k]fluoranthene	26		12		ug/Kg	☼	11/09/18 11:14	11/09/18 19:14	1
Benzo[a]pyrene	60		12		ug/Kg	☼	11/09/18 11:14	11/09/18 19:14	1
Indeno[1,2,3-cd]pyrene	30		12		ug/Kg	☼	11/09/18 11:14	11/09/18 19:14	1
Dibenz(a,h)anthracene	ND		12		ug/Kg	☼	11/09/18 11:14	11/09/18 19:14	1
Benzo[g,h,i]perylene	37		12		ug/Kg	☼	11/09/18 11:14	11/09/18 19:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	78		23 - 120				11/09/18 11:14	11/09/18 19:14	1
2-Fluorobiphenyl (Surr)	81		38 - 123				11/09/18 11:14	11/09/18 19:14	1
p-Terphenyl-d14	90		68 - 136				11/09/18 11:14	11/09/18 19:14	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	25		2.4		mg/Kg	☼	11/12/18 09:42	11/12/18 18:09	1

TestAmerica Spokane

Client Sample Results

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014001

TestAmerica Job ID: 590-9901-2

Client Sample ID: TP-63-6

Lab Sample ID: 590-9901-39

Date Collected: 11/08/18 11:10

Matrix: Solid

Date Received: 11/08/18 16:20

Percent Solids: 81.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		12		ug/Kg	☼	11/09/18 11:14	11/09/18 19:38	1
2-Methylnaphthalene	ND		12		ug/Kg	☼	11/09/18 11:14	11/09/18 19:38	1
1-Methylnaphthalene	ND		12		ug/Kg	☼	11/09/18 11:14	11/09/18 19:38	1
Acenaphthylene	ND		12		ug/Kg	☼	11/09/18 11:14	11/09/18 19:38	1
Acenaphthene	ND		12		ug/Kg	☼	11/09/18 11:14	11/09/18 19:38	1
Fluorene	ND		12		ug/Kg	☼	11/09/18 11:14	11/09/18 19:38	1
Phenanthrene	ND		12		ug/Kg	☼	11/09/18 11:14	11/09/18 19:38	1
Anthracene	ND		12		ug/Kg	☼	11/09/18 11:14	11/09/18 19:38	1
Fluoranthene	ND		12		ug/Kg	☼	11/09/18 11:14	11/09/18 19:38	1
Pyrene	ND		12		ug/Kg	☼	11/09/18 11:14	11/09/18 19:38	1
Benzo[a]anthracene	ND		12		ug/Kg	☼	11/09/18 11:14	11/09/18 19:38	1
Chrysene	ND		12		ug/Kg	☼	11/09/18 11:14	11/09/18 19:38	1
Benzo[b]fluoranthene	ND		12		ug/Kg	☼	11/09/18 11:14	11/09/18 19:38	1
Benzo[k]fluoranthene	ND		12		ug/Kg	☼	11/09/18 11:14	11/09/18 19:38	1
Benzo[a]pyrene	ND		12		ug/Kg	☼	11/09/18 11:14	11/09/18 19:38	1
Indeno[1,2,3-cd]pyrene	ND		12		ug/Kg	☼	11/09/18 11:14	11/09/18 19:38	1
Dibenz(a,h)anthracene	ND		12		ug/Kg	☼	11/09/18 11:14	11/09/18 19:38	1
Benzo[g,h,i]perylene	ND		12		ug/Kg	☼	11/09/18 11:14	11/09/18 19:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	80		23 - 120	11/09/18 11:14	11/09/18 19:38	1
2-Fluorobiphenyl (Surr)	81		38 - 123	11/09/18 11:14	11/09/18 19:38	1
p-Terphenyl-d14	92		68 - 136	11/09/18 11:14	11/09/18 19:38	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	12		2.9		mg/Kg	☼	11/12/18 09:42	11/12/18 18:13	1

QC Sample Results

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014001

TestAmerica Job ID: 590-9901-2

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

Lab Sample ID: MB 590-19853/1-A
Matrix: Solid
Analysis Batch: 19855

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 19853

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		10		ug/Kg		11/09/18 11:14	11/09/18 14:40	1
2-Methylnaphthalene	ND		10		ug/Kg		11/09/18 11:14	11/09/18 14:40	1
1-Methylnaphthalene	ND		10		ug/Kg		11/09/18 11:14	11/09/18 14:40	1
Acenaphthylene	ND		10		ug/Kg		11/09/18 11:14	11/09/18 14:40	1
Acenaphthene	ND		10		ug/Kg		11/09/18 11:14	11/09/18 14:40	1
Fluorene	ND		10		ug/Kg		11/09/18 11:14	11/09/18 14:40	1
Phenanthrene	ND		10		ug/Kg		11/09/18 11:14	11/09/18 14:40	1
Anthracene	ND		10		ug/Kg		11/09/18 11:14	11/09/18 14:40	1
Fluoranthene	ND		10		ug/Kg		11/09/18 11:14	11/09/18 14:40	1
Pyrene	ND		10		ug/Kg		11/09/18 11:14	11/09/18 14:40	1
Benzo[a]anthracene	ND		10		ug/Kg		11/09/18 11:14	11/09/18 14:40	1
Chrysene	ND		10		ug/Kg		11/09/18 11:14	11/09/18 14:40	1
Benzo[b]fluoranthene	ND		10		ug/Kg		11/09/18 11:14	11/09/18 14:40	1
Benzo[k]fluoranthene	ND		10		ug/Kg		11/09/18 11:14	11/09/18 14:40	1
Benzo[a]pyrene	ND		10		ug/Kg		11/09/18 11:14	11/09/18 14:40	1
Indeno[1,2,3-cd]pyrene	ND		10		ug/Kg		11/09/18 11:14	11/09/18 14:40	1
Dibenz(a,h)anthracene	ND		10		ug/Kg		11/09/18 11:14	11/09/18 14:40	1
Benzo[g,h,i]perylene	ND		10		ug/Kg		11/09/18 11:14	11/09/18 14:40	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	76		23 - 120	11/09/18 11:14	11/09/18 14:40	1
2-Fluorobiphenyl (Surr)	83		38 - 123	11/09/18 11:14	11/09/18 14:40	1
p-Terphenyl-d14	94		68 - 136	11/09/18 11:14	11/09/18 14:40	1

Lab Sample ID: LCS 590-19853/2-A
Matrix: Solid
Analysis Batch: 19855

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 19853

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Naphthalene	267	148		ug/Kg		56	41 - 121
2-Methylnaphthalene	267	177		ug/Kg		66	39 - 132
1-Methylnaphthalene	267	197		ug/Kg		74	46 - 131
Acenaphthylene	267	201		ug/Kg		75	56 - 123
Acenaphthene	267	198		ug/Kg		74	43 - 140
Fluorene	267	204		ug/Kg		76	54 - 131
Phenanthrene	267	187		ug/Kg		70	55 - 141
Anthracene	267	239		ug/Kg		90	60 - 129
Fluoranthene	267	189		ug/Kg		71	63 - 141
Pyrene	267	210		ug/Kg		79	62 - 139
Benzo[a]anthracene	267	212		ug/Kg		80	61 - 136
Chrysene	267	220		ug/Kg		82	57 - 144
Benzo[b]fluoranthene	267	184		ug/Kg		69	66 - 141
Benzo[k]fluoranthene	267	183		ug/Kg		68	63 - 150
Benzo[a]pyrene	267	195		ug/Kg		73	60 - 133
Indeno[1,2,3-cd]pyrene	267	190		ug/Kg		71	55 - 142
Dibenz(a,h)anthracene	267	195		ug/Kg		73	60 - 150
Benzo[g,h,i]perylene	267	201		ug/Kg		75	58 - 147

TestAmerica Spokane

QC Sample Results

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014001

TestAmerica Job ID: 590-9901-2

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

Lab Sample ID: LCS 590-19853/2-A
Matrix: Solid
Analysis Batch: 19855

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 19853

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Nitrobenzene-d5	68		23 - 120
2-Fluorobiphenyl (Surr)	78		38 - 123
p-Terphenyl-d14	93		68 - 136

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 590-19867/2-A
Matrix: Solid
Analysis Batch: 19871

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 19867

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		3.0		mg/Kg		11/12/18 09:42	11/12/18 14:21	1

Lab Sample ID: LCS 590-19867/1-A
Matrix: Solid
Analysis Batch: 19871

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 19867

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	50.0	54.8		mg/Kg		110	80 - 120

Lab Chronicle

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014001

TestAmerica Job ID: 590-9901-2

Client Sample ID: TP-57-6

Date Collected: 11/08/18 11:06

Date Received: 11/08/18 16:20

Lab Sample ID: 590-9901-3

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			19850	11/09/18 10:41	MO	TAL SPK

Client Sample ID: TP-57-6

Date Collected: 11/08/18 11:06

Date Received: 11/08/18 16:20

Lab Sample ID: 590-9901-3

Matrix: Solid

Percent Solids: 86.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			15.11 g	2 mL	19853	11/09/18 11:14	MO	TAL SPK
Total/NA	Analysis	8270D SIM		1			19855	11/09/18 17:09	NMI	TAL SPK
Total/NA	Prep	3050B			1.25 g	50 mL	19867	11/12/18 09:42	JSP	TAL SPK
Total/NA	Analysis	6010C		1			19878	11/12/18 17:51	JSP	TAL SPK

Client Sample ID: TP-58-6

Date Collected: 11/08/18 10:20

Date Received: 11/08/18 16:20

Lab Sample ID: 590-9901-5

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			19850	11/09/18 10:41	MO	TAL SPK

Client Sample ID: TP-58-6

Date Collected: 11/08/18 10:20

Date Received: 11/08/18 16:20

Lab Sample ID: 590-9901-5

Matrix: Solid

Percent Solids: 86.1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			15.07 g	2 mL	19853	11/09/18 11:14	MO	TAL SPK
Total/NA	Analysis	8270D SIM		1			19855	11/09/18 17:34	NMI	TAL SPK
Total/NA	Prep	3050B			1.29 g	50 mL	19867	11/12/18 09:42	JSP	TAL SPK
Total/NA	Analysis	6010C		1			19878	11/12/18 17:54	JSP	TAL SPK

Client Sample ID: TP-59-6

Date Collected: 11/08/18 15:01

Date Received: 11/08/18 16:20

Lab Sample ID: 590-9901-7

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			19850	11/09/18 10:41	MO	TAL SPK

Client Sample ID: TP-59-6

Date Collected: 11/08/18 15:01

Date Received: 11/08/18 16:20

Lab Sample ID: 590-9901-7

Matrix: Solid

Percent Solids: 81.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			15.71 g	2 mL	19853	11/09/18 11:14	MO	TAL SPK

TestAmerica Spokane

Lab Chronicle

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014001

TestAmerica Job ID: 590-9901-2

Client Sample ID: TP-59-6

Date Collected: 11/08/18 15:01

Date Received: 11/08/18 16:20

Lab Sample ID: 590-9901-7

Matrix: Solid

Percent Solids: 81.3

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			19855	11/09/18 17:59	NMI	TAL SPK
Total/NA	Prep	3050B			1.28 g	50 mL	19867	11/12/18 09:42	JSP	TAL SPK
Total/NA	Analysis	6010C		1			19878	11/12/18 17:58	JSP	TAL SPK

Client Sample ID: TP-60-6

Date Collected: 11/08/18 10:30

Date Received: 11/08/18 16:20

Lab Sample ID: 590-9901-9

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			19850	11/09/18 10:41	MO	TAL SPK

Client Sample ID: TP-60-6

Date Collected: 11/08/18 10:30

Date Received: 11/08/18 16:20

Lab Sample ID: 590-9901-9

Matrix: Solid

Percent Solids: 80.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			15.27 g	2 mL	19853	11/09/18 11:14	MO	TAL SPK
Total/NA	Analysis	8270D SIM		1			19855	11/09/18 18:24	NMI	TAL SPK
Total/NA	Prep	3050B			1.30 g	50 mL	19867	11/12/18 09:42	JSP	TAL SPK
Total/NA	Analysis	6010C		1			19878	11/12/18 18:02	JSP	TAL SPK

Client Sample ID: TP-61-6

Date Collected: 11/08/18 11:05

Date Received: 11/08/18 16:20

Lab Sample ID: 590-9901-11

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			19850	11/09/18 10:41	MO	TAL SPK

Client Sample ID: TP-61-6

Date Collected: 11/08/18 11:05

Date Received: 11/08/18 16:20

Lab Sample ID: 590-9901-11

Matrix: Solid

Percent Solids: 81.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			15.69 g	2 mL	19853	11/09/18 11:14	MO	TAL SPK
Total/NA	Analysis	8270D SIM		1			19855	11/09/18 18:49	NMI	TAL SPK
Total/NA	Prep	3050B			1.39 g	50 mL	19867	11/12/18 09:42	JSP	TAL SPK
Total/NA	Analysis	6010C		1			19878	11/12/18 18:06	JSP	TAL SPK

TestAmerica Spokane

Lab Chronicle

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014001

TestAmerica Job ID: 590-9901-2

Client Sample ID: TP-62-6

Date Collected: 11/08/18 10:50

Date Received: 11/08/18 16:20

Lab Sample ID: 590-9901-37

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			19850	11/09/18 10:41	MO	TAL SPK

Client Sample ID: TP-62-6

Date Collected: 11/08/18 10:50

Date Received: 11/08/18 16:20

Lab Sample ID: 590-9901-37

Matrix: Solid

Percent Solids: 77.1

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	19853	11/09/18 11:14	MO	TAL SPK
Total/NA	Analysis	8270D SIM		1			19855	11/09/18 19:14	NMI	TAL SPK
Total/NA	Prep	3050B			1.59 g	50 mL	19867	11/12/18 09:42	JSP	TAL SPK
Total/NA	Analysis	6010C		1			19878	11/12/18 18:09	JSP	TAL SPK

Client Sample ID: TP-63-6

Date Collected: 11/08/18 11:10

Date Received: 11/08/18 16:20

Lab Sample ID: 590-9901-39

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			19850	11/09/18 10:41	MO	TAL SPK

Client Sample ID: TP-63-6

Date Collected: 11/08/18 11:10

Date Received: 11/08/18 16:20

Lab Sample ID: 590-9901-39

Matrix: Solid

Percent Solids: 81.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			15.22 g	2 mL	19853	11/09/18 11:14	MO	TAL SPK
Total/NA	Analysis	8270D SIM		1			19855	11/09/18 19:38	NMI	TAL SPK
Total/NA	Prep	3050B			1.25 g	50 mL	19867	11/12/18 09:42	JSP	TAL SPK
Total/NA	Analysis	6010C		1			19878	11/12/18 18:13	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: CVSD/15014001

TestAmerica Job ID: 590-9901-2

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 the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

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



Method Summary

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014001

TestAmerica Job ID: 590-9901-2

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



Sample Custody Record

Samples Shipped to: Test America

Hart Crowser, Inc.
3131 Elliott Avenue, Suite 600
Seattle, Washington 98121
Office: 206.324.9530 • Fax 206.328.5581

HART CROWSER
PAGE 1 OF 4

JOB 150014001 LAB NUMBER		PROJECT NAME CVSD		HART CROWSER CONTACT Ward McDonald		SAMPLED BY: Keylin Huddleston/Ward McDonald		REQUESTED ANALYSIS		OBSERVATIONS/COMMENTS/ COMPOSITING INSTRUCTIONS	
LAB NO.	SAMPLE ID	DESCRIPTION	DATE	TIME	MATRIX						
	TP-56-6		11/8/18	14:30	Soil	X	X				
	TP-56-12			14:31		X	X				
	TP-57-6			11:06		X	X				48 HR TURN AROUND (TAT)
	TP-57-12			11:05		X	X				48 HR TAT
	TP-58-6			10:20		X	X				48 HR TAT
	TP-58-12			10:21		X	X				48 HR TAT
	TP-59-6			15:01		X	X				48 HR TAT
	TP-59-12			15:02		X	X				48 HR TAT
	TP-60-6			10:30		X	X				48 HR TAT
	TP-60-12			10:31		X	X				48 HR TAT
	TP-61-6			11:05		X	X				48 HR TAT
	TP-61-12			11:06		X	X				48 HR TAT
 590-9901 Chain of Custody											
RELINQUISHED BY: <u>[Signature]</u> SIGNATURE: <u>WARD McDONALD</u> PRINT NAME: <u>WARD McDONALD</u> COMPANY: <u>HART CROWSER</u>						RECEIVED BY: <u>[Signature]</u> SIGNATURE: <u>Shoung Kratz</u> PRINT NAME: <u>SHOUNG KRATZ</u> COMPANY: <u>TEST AMERICA</u>					
RELINQUISHED BY: <u>[Signature]</u> SIGNATURE: <u>[Signature]</u> PRINT NAME: <u>[Signature]</u> COMPANY: <u>[Signature]</u>						RECEIVED BY: <u>[Signature]</u> SIGNATURE: <u>[Signature]</u> PRINT NAME: <u>[Signature]</u> COMPANY: <u>[Signature]</u>					
SPECIAL SHIPMENT HANDLING OR STORAGE REQUIREMENTS: 3.9C IRCOY FE ^{NDM} SAMPLES NOT MARKED FOR ANALYSIS TO BE ON HOLD						TOTAL NUMBER OF CONTAINERS: _____ 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					
COOLER NO.: _____ STORAGE LOCATION: _____ TURNAROUND TIME: <input type="checkbox"/> 24 HOURS <input type="checkbox"/> 1 WEEK <input type="checkbox"/> 48 HOURS <input type="checkbox"/> STANDARD <input type="checkbox"/> 72 HOURS <input type="checkbox"/> OTHER						See Lab Work Order No. _____ for Other Contract Requirements					

White to Lab Yellow to Project Manager Pink to Sample Custodian

Sample Custody Record

Samples Shipped to: Test America



HARTCROWSER

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Hart Crowser, Inc.
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Seattle, Washington 98121
Office: 206.324.9530 • Fax 206.328.5581

JOB <u>150014001</u> LAB NUMBER		REQUESTED ANALYSIS				NO. OF CONTAINERS	OBSERVATIONS/COMMENTS/ COMPOSITING INSTRUCTIONS
PROJECT NAME <u>CVSD</u>	HART CROWSER CONTACT <u>Ward McDonald</u>	DESCRIPTION	DATE	TIME	MATRIX		
SAMPLED BY: <u>Keylin Huddleston / Ward McDonald</u>							
LAB NO.	SAMPLE ID	DESCRIPTION	DATE	TIME	MATRIX		
	TP-50-6		11/8/18	12:51	Soil	X	
	TP-50-12			12:50		X	
	TP-51-6			13:50		X	
	TP-51-12			13:51		X	
	TP-52-6			13:40		X	
	TP-52-12			13:41		X	
	TP-53-6			14:55		X	
	TP-53-12			14:56		X	
	TP-54-6			14:15		X	
	TP-54-12			14:16		X	
	TP-55-6			14:20		X	
	TP-55-12			14:21		X	
RELINQUISHED BY		DATE	RECEIVED BY	DATE	SPECIAL SHIPMENT HANDLING OR STORAGE REQUIREMENTS:		
SIGNATURE <u>[Signature]</u>		11/8/18	SIGNATURE <u>[Signature]</u>	11/6/16	3.9C IR004		
PRINT NAME <u>[Name]</u>		TIME	PRINT NAME <u>[Name]</u>	TIME	SAMPLES NOT MARKED FOR ANALYSIS TO BE UNTOUD		
COMPANY <u>[Company]</u>		1620	COMPANY <u>[Company]</u>	1620	COOLER NO.: STORAGE LOCATION:		
RECEIVED BY		DATE	RECEIVED BY	DATE	TURNAROUND TIME:		
SIGNATURE		TIME	SIGNATURE	TIME	<input type="checkbox"/> 24 HOURS <input type="checkbox"/> 1 WEEK		
PRINT NAME			PRINT NAME		<input type="checkbox"/> 48 HOURS <input type="checkbox"/> STANDARD		
COMPANY			COMPANY		<input type="checkbox"/> 72 HOURS <input type="checkbox"/> OTHER		
REINQUISHED BY		DATE	RECEIVED BY	DATE	TOTAL NUMBER OF CONTAINERS		
SIGNATURE			SIGNATURE		SAMPLE RECEIPT INFORMATION		
PRINT NAME			PRINT NAME		CUSTODY SEALS: <input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A		
COMPANY			COMPANY		GOOD CONDITION <input type="checkbox"/> YES <input type="checkbox"/> NO		
					TEMPERATURE		
					SHIPMENT METHOD: <input type="checkbox"/> HAND <input type="checkbox"/> OVERNIGHT		
					COURIER		

White to Lab Yellow to Project Manager Pink to Sample Custodian

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Sample Custody Record

Samples Shipped to: Test America

HART CROWSER
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Hart Crowser, Inc.
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Seattle, Washington 98121
Office: 206.324.9530 • Fax 206.328.5581

JOB <u>150014001</u> LAB NUMBER _____ PROJECT NAME <u>CVSD</u> HART CROWSER CONTACT <u>Ward McDonald</u>		OBSERVATIONS/COMMENTS/ COMPOSITING INSTRUCTIONS				
SAMPLED BY: <u>Keylin Huddleston/Ward McDonald</u>		NO. OF CONTAINERS _____				
REQUESTED ANALYSIS		SPECIAL SHIPMENT HANDLING OR STORAGE REQUIREMENTS: <u>SAMPLES WERE ANALYSIS ISNT CHECKED ARE TO BE ON HOLD</u>				
LAB NO.	SAMPLE ID	DESCRIPTION	DATE	TIME	MATRIX	TOTAL NUMBER OF CONTAINERS
	TP-44-6		11/8/18	11:56	Soil	
	TP-44-12			11:55		
	TP-45-6			12:20		
	TP-45-12			12:21		
	TP-46-6			12:00		
	TP-46-12			12:01		
	TP-47-6			11:45		
	TP-47-12			11:46		
	TP-48-6			12:01		
	TP-48-12			12:00		
	TP-49-6			12:41		
	TP-49-12			12:40		
RELINQUISHED BY <u>[Signature]</u>	DATE <u>11/8/18</u>	RECEIVED BY <u>[Signature]</u>	DATE <u>11/6/18</u>	SPECIAL SHIPMENT HANDLING OR STORAGE REQUIREMENTS: <u>SAMPLES WERE ANALYSIS ISNT CHECKED ARE TO BE ON HOLD</u>		TOTAL NUMBER OF CONTAINERS
SIGNATURE <u>[Signature]</u>	TIME <u>1600</u>	SIGNATURE <u>[Signature]</u>	TIME <u>1600</u>	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"/> OVERNIGHT <input type="checkbox"/> COURIER		TURNAROUND TIME: <input type="checkbox"/> 24 HOURS <input type="checkbox"/> 1 WEEK <input type="checkbox"/> 48 HOURS <input type="checkbox"/> STANDARD <input type="checkbox"/> 72 HOURS <input type="checkbox"/> OTHER _____
RELINQUISHED BY <u>[Signature]</u>	DATE <u>11/6/18</u>	RECEIVED BY <u>[Signature]</u>	DATE <u>11/6/18</u>	COOLER NO.: _____ STORAGE LOCATION: _____		See Lab Work Order No. _____ for Other Contract Requirements
SIGNATURE <u>[Signature]</u>	TIME <u>1600</u>	SIGNATURE <u>[Signature]</u>	TIME <u>1600</u>	COOLER NO.: _____ STORAGE LOCATION: _____		See Lab Work Order No. _____ for Other Contract Requirements



Login Sample Receipt Checklist

Client: Hart Crowser, Inc.

Job Number: 590-9901-2

Login Number: 9901

List Source: TestAmerica Spokane

List Number: 1

Creator: Northrup, Trinitie L

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	
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.	True	
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

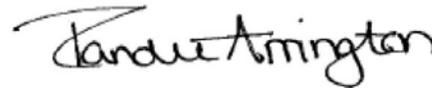
ANALYTICAL REPORT

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

TestAmerica Job ID: 590-9901-3
Client Project/Site: CVSD/15014001

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

Attn: John Haney



Authorized for release by:
11/16/2018 1:37:38 PM

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

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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.

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Case Narrative

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014001

TestAmerica Job ID: 590-9901-3

Job ID: 590-9901-3

Laboratory: TestAmerica Spokane

Narrative

Receipt

The samples were received on 11/8/2018 4:20 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.9° C.

GC/MS Semi VOA

Method 8270D SIM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 590-19884 and analytical batch 590-19883 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8270D SIM: The following sample required a dilution due to the nature of the sample matrix: TP-53-6 (590-9901-19). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

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

Metals

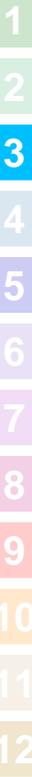
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

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.

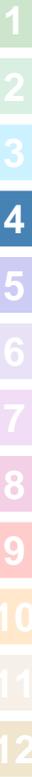


Sample Summary

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014001

TestAmerica Job ID: 590-9901-3

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
590-9901-1	TP-56-6	Solid	11/08/18 14:30	11/08/18 16:20
590-9901-13	TP-50-6	Solid	11/08/18 12:51	11/08/18 16:20
590-9901-15	TP-51-6	Solid	11/08/18 13:50	11/08/18 16:20
590-9901-17	TP-52-6	Solid	11/08/18 13:40	11/08/18 16:20
590-9901-19	TP-53-6	Solid	11/08/18 14:55	11/08/18 16:20
590-9901-21	TP-54-6	Solid	11/08/18 14:15	11/08/18 16:20
590-9901-23	TP-55-6	Solid	11/08/18 14:20	11/08/18 16:20
590-9901-25	TP-44-6	Solid	11/08/18 11:56	11/08/18 16:20
590-9901-27	TP-45-6	Solid	11/08/18 12:20	11/08/18 16:20
590-9901-29	TP-46-6	Solid	11/08/18 12:00	11/08/18 16:20
590-9901-31	TP-47-6	Solid	11/08/18 11:45	11/08/18 16:20
590-9901-33	TP-48-6	Solid	11/08/18 12:01	11/08/18 16:20
590-9901-35	TP-49-6	Solid	11/08/18 12:41	11/08/18 16:20



Definitions/Glossary

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014001

TestAmerica Job ID: 590-9901-3

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
X	Surrogate is outside control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
▫	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	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: CVSD/15014001

TestAmerica Job ID: 590-9901-3

Client Sample ID: TP-56-6

Date Collected: 11/08/18 14:30

Date Received: 11/08/18 16:20

Lab Sample ID: 590-9901-1

Matrix: Solid

Percent Solids: 91.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	160		100		ug/Kg	☼	11/09/18 11:14	11/09/18 20:03	10
2-Methylnaphthalene	110		100		ug/Kg	☼	11/09/18 11:14	11/09/18 20:03	10
1-Methylnaphthalene	ND		100		ug/Kg	☼	11/09/18 11:14	11/09/18 20:03	10
Acenaphthylene	ND		100		ug/Kg	☼	11/09/18 11:14	11/09/18 20:03	10
Acenaphthene	930		100		ug/Kg	☼	11/09/18 11:14	11/09/18 20:03	10
Fluorene	290		100		ug/Kg	☼	11/09/18 11:14	11/09/18 20:03	10
Phenanthrene	4700		100		ug/Kg	☼	11/09/18 11:14	11/09/18 20:03	10
Anthracene	1400		100		ug/Kg	☼	11/09/18 11:14	11/09/18 20:03	10
Fluoranthene	11000		100		ug/Kg	☼	11/09/18 11:14	11/09/18 20:03	10
Pyrene	15000		100		ug/Kg	☼	11/09/18 11:14	11/09/18 20:03	10
Benzo[a]anthracene	9300		100		ug/Kg	☼	11/09/18 11:14	11/09/18 20:03	10
Chrysene	12000		100		ug/Kg	☼	11/09/18 11:14	11/09/18 20:03	10
Benzo[b]fluoranthene	13000		100		ug/Kg	☼	11/09/18 11:14	11/09/18 20:03	10
Benzo[k]fluoranthene	5600		100		ug/Kg	☼	11/09/18 11:14	11/09/18 20:03	10
Benzo[a]pyrene	13000		100		ug/Kg	☼	11/09/18 11:14	11/09/18 20:03	10
Indeno[1,2,3-cd]pyrene	6400		100		ug/Kg	☼	11/09/18 11:14	11/09/18 20:03	10
Dibenz(a,h)anthracene	2200		100		ug/Kg	☼	11/09/18 11:14	11/09/18 20:03	10
Benzo[g,h,i]perylene	7000		100		ug/Kg	☼	11/09/18 11:14	11/09/18 20:03	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	64		23 - 120	11/09/18 11:14	11/09/18 20:03	10
2-Fluorobiphenyl (Surr)	71		38 - 123	11/09/18 11:14	11/09/18 20:03	10
p-Terphenyl-d14	86		68 - 136	11/09/18 11:14	11/09/18 20:03	10

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	420		2.4		mg/Kg	☼	11/14/18 08:57	11/15/18 15:14	1

Client Sample ID: TP-50-6

Date Collected: 11/08/18 12:51

Date Received: 11/08/18 16:20

Lab Sample ID: 590-9901-13

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	130		120		ug/Kg	☼	11/09/18 11:14	11/09/18 20:28	10
2-Methylnaphthalene	120		120		ug/Kg	☼	11/09/18 11:14	11/09/18 20:28	10
1-Methylnaphthalene	ND		120		ug/Kg	☼	11/09/18 11:14	11/09/18 20:28	10
Acenaphthylene	ND		120		ug/Kg	☼	11/09/18 11:14	11/09/18 20:28	10
Acenaphthene	1000		120		ug/Kg	☼	11/09/18 11:14	11/09/18 20:28	10
Fluorene	320		120		ug/Kg	☼	11/09/18 11:14	11/09/18 20:28	10
Phenanthrene	6000		120		ug/Kg	☼	11/09/18 11:14	11/09/18 20:28	10
Anthracene	1300		120		ug/Kg	☼	11/09/18 11:14	11/09/18 20:28	10
Fluoranthene	14000		120		ug/Kg	☼	11/09/18 11:14	11/09/18 20:28	10
Pyrene	20000		120		ug/Kg	☼	11/09/18 11:14	11/09/18 20:28	10
Benzo[a]anthracene	12000		120		ug/Kg	☼	11/09/18 11:14	11/09/18 20:28	10
Chrysene	16000		120		ug/Kg	☼	11/09/18 11:14	11/09/18 20:28	10
Benzo[b]fluoranthene	18000		120		ug/Kg	☼	11/09/18 11:14	11/09/18 20:28	10
Benzo[k]fluoranthene	7800		120		ug/Kg	☼	11/09/18 11:14	11/09/18 20:28	10
Benzo[a]pyrene	18000		120		ug/Kg	☼	11/09/18 11:14	11/09/18 20:28	10
Indeno[1,2,3-cd]pyrene	9800		120		ug/Kg	☼	11/09/18 11:14	11/09/18 20:28	10

TestAmerica Spokane

Client Sample Results

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014001

TestAmerica Job ID: 590-9901-3

Client Sample ID: TP-50-6

Lab Sample ID: 590-9901-13

Date Collected: 11/08/18 12:51

Matrix: Solid

Date Received: 11/08/18 16:20

Percent Solids: 79.8

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	3200		120		ug/Kg	☼	11/09/18 11:14	11/09/18 20:28	10
Benzo[g,h,i]perylene	12000		120		ug/Kg	☼	11/09/18 11:14	11/09/18 20:28	10
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	72		23 - 120				11/09/18 11:14	11/09/18 20:28	10
2-Fluorobiphenyl (Surr)	80		38 - 123				11/09/18 11:14	11/09/18 20:28	10
p-Terphenyl-d14	92		68 - 136				11/09/18 11:14	11/09/18 20:28	10

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	11000		5.9		mg/Kg	☼	11/14/18 08:57	11/15/18 16:26	2

Client Sample ID: TP-51-6

Lab Sample ID: 590-9901-15

Date Collected: 11/08/18 13:50

Matrix: Solid

Date Received: 11/08/18 16:20

Percent Solids: 86.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		11		ug/Kg	☼	11/09/18 11:14	11/09/18 20:53	1
2-Methylnaphthalene	ND		11		ug/Kg	☼	11/09/18 11:14	11/09/18 20:53	1
1-Methylnaphthalene	ND		11		ug/Kg	☼	11/09/18 11:14	11/09/18 20:53	1
Acenaphthylene	ND		11		ug/Kg	☼	11/09/18 11:14	11/09/18 20:53	1
Acenaphthene	54		11		ug/Kg	☼	11/09/18 11:14	11/09/18 20:53	1
Fluorene	18		11		ug/Kg	☼	11/09/18 11:14	11/09/18 20:53	1
Phenanthrene	310		11		ug/Kg	☼	11/09/18 11:14	11/09/18 20:53	1
Anthracene	85		11		ug/Kg	☼	11/09/18 11:14	11/09/18 20:53	1
Fluoranthene	720		11		ug/Kg	☼	11/09/18 11:14	11/09/18 20:53	1
Pyrene	900		11		ug/Kg	☼	11/09/18 11:14	11/09/18 20:53	1
Benzo[a]anthracene	620		11		ug/Kg	☼	11/09/18 11:14	11/09/18 20:53	1
Chrysene	790		11		ug/Kg	☼	11/09/18 11:14	11/09/18 20:53	1
Benzo[b]fluoranthene	1000		11		ug/Kg	☼	11/09/18 11:14	11/09/18 20:53	1
Benzo[k]fluoranthene	350		11		ug/Kg	☼	11/09/18 11:14	11/09/18 20:53	1
Benzo[a]pyrene	880		11		ug/Kg	☼	11/09/18 11:14	11/09/18 20:53	1
Indeno[1,2,3-cd]pyrene	470		11		ug/Kg	☼	11/09/18 11:14	11/09/18 20:53	1
Dibenz(a,h)anthracene	170		11		ug/Kg	☼	11/09/18 11:14	11/09/18 20:53	1
Benzo[g,h,i]perylene	620		11		ug/Kg	☼	11/09/18 11:14	11/09/18 20:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	80		23 - 120				11/09/18 11:14	11/09/18 20:53	1
2-Fluorobiphenyl (Surr)	90		38 - 123				11/09/18 11:14	11/09/18 20:53	1
p-Terphenyl-d14	90		68 - 136				11/09/18 11:14	11/09/18 20:53	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	33		2.3		mg/Kg	☼	11/14/18 08:57	11/15/18 15:22	1

TestAmerica Spokane

Client Sample Results

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014001

TestAmerica Job ID: 590-9901-3

Client Sample ID: TP-52-6

Date Collected: 11/08/18 13:40

Date Received: 11/08/18 16:20

Lab Sample ID: 590-9901-17

Matrix: Solid

Percent Solids: 81.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	1400		240		ug/Kg	☼	11/09/18 11:14	11/09/18 21:18	20
2-Methylnaphthalene	510		240		ug/Kg	☼	11/09/18 11:14	11/09/18 21:18	20
1-Methylnaphthalene	360		240		ug/Kg	☼	11/09/18 11:14	11/09/18 21:18	20
Acenaphthylene	ND		240		ug/Kg	☼	11/09/18 11:14	11/09/18 21:18	20
Acenaphthene	3300		240		ug/Kg	☼	11/09/18 11:14	11/09/18 21:18	20
Fluorene	1400		240		ug/Kg	☼	11/09/18 11:14	11/09/18 21:18	20
Phenanthrene	25000		240		ug/Kg	☼	11/09/18 11:14	11/09/18 21:18	20
Anthracene	7300		240		ug/Kg	☼	11/09/18 11:14	11/09/18 21:18	20
Fluoranthene	72000		2400		ug/Kg	☼	11/09/18 11:14	11/13/18 17:51	200
Pyrene	81000		2400		ug/Kg	☼	11/09/18 11:14	11/13/18 17:51	200
Benzo[a]anthracene	59000		240		ug/Kg	☼	11/09/18 11:14	11/09/18 21:18	20
Chrysene	65000		2400		ug/Kg	☼	11/09/18 11:14	11/13/18 17:51	200
Benzo[b]fluoranthene	65000		2400		ug/Kg	☼	11/09/18 11:14	11/13/18 17:51	200
Benzo[k]fluoranthene	31000		240		ug/Kg	☼	11/09/18 11:14	11/09/18 21:18	20
Benzo[a]pyrene	61000		2400		ug/Kg	☼	11/09/18 11:14	11/13/18 17:51	200
Indeno[1,2,3-cd]pyrene	29000		240		ug/Kg	☼	11/09/18 11:14	11/09/18 21:18	20
Dibenz(a,h)anthracene	10000		240		ug/Kg	☼	11/09/18 11:14	11/09/18 21:18	20
Benzo[g,h,i]perylene	33000		240		ug/Kg	☼	11/09/18 11:14	11/09/18 21:18	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	72		23 - 120	11/09/18 11:14	11/09/18 21:18	20
Nitrobenzene-d5	79		23 - 120	11/09/18 11:14	11/13/18 17:51	200
2-Fluorobiphenyl (Surr)	80		38 - 123	11/09/18 11:14	11/09/18 21:18	20
2-Fluorobiphenyl (Surr)	84		38 - 123	11/09/18 11:14	11/13/18 17:51	200
p-Terphenyl-d14	88		68 - 136	11/09/18 11:14	11/09/18 21:18	20
p-Terphenyl-d14	109		68 - 136	11/09/18 11:14	11/13/18 17:51	200

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	30000		11		mg/Kg	☼	11/14/18 08:57	11/15/18 16:30	5

Client Sample ID: TP-53-6

Date Collected: 11/08/18 14:55

Date Received: 11/08/18 16:20

Lab Sample ID: 590-9901-19

Matrix: Solid

Percent Solids: 90.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	3500		210		ug/Kg	☼	11/09/18 11:14	11/09/18 21:43	20
2-Methylnaphthalene	2800		210		ug/Kg	☼	11/09/18 11:14	11/09/18 21:43	20
1-Methylnaphthalene	1900		210		ug/Kg	☼	11/09/18 11:14	11/09/18 21:43	20
Acenaphthylene	ND		210		ug/Kg	☼	11/09/18 11:14	11/09/18 21:43	20
Acenaphthene	24000		210		ug/Kg	☼	11/09/18 11:14	11/09/18 21:43	20
Fluorene	7100		210		ug/Kg	☼	11/09/18 11:14	11/09/18 21:43	20
Phenanthrene	87000		5300		ug/Kg	☼	11/09/18 11:14	11/13/18 18:16	500
Anthracene	31000		210		ug/Kg	☼	11/09/18 11:14	11/09/18 21:43	20
Fluoranthene	210000		5300		ug/Kg	☼	11/09/18 11:14	11/13/18 18:16	500
Pyrene	270000		5300		ug/Kg	☼	11/09/18 11:14	11/13/18 18:16	500
Benzo[a]anthracene	170000		5300		ug/Kg	☼	11/09/18 11:14	11/13/18 18:16	500
Chrysene	200000		5300		ug/Kg	☼	11/09/18 11:14	11/13/18 18:16	500
Benzo[b]fluoranthene	220000		5300		ug/Kg	☼	11/09/18 11:14	11/13/18 18:16	500

TestAmerica Spokane

Client Sample Results

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014001

TestAmerica Job ID: 590-9901-3

Client Sample ID: TP-53-6

Lab Sample ID: 590-9901-19

Date Collected: 11/08/18 14:55

Matrix: Solid

Date Received: 11/08/18 16:20

Percent Solids: 90.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	84000		5300		ug/Kg	☼	11/09/18 11:14	11/13/18 18:16	500
Benzo[a]pyrene	210000		5300		ug/Kg	☼	11/09/18 11:14	11/13/18 18:16	500
Indeno[1,2,3-cd]pyrene	96000		5300		ug/Kg	☼	11/09/18 11:14	11/13/18 18:16	500
Dibenz(a,h)anthracene	40000		210		ug/Kg	☼	11/09/18 11:14	11/09/18 21:43	20
Benzo[g,h,i]perylene	100000		5300		ug/Kg	☼	11/09/18 11:14	11/13/18 18:16	500

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	74		23 - 120	11/09/18 11:14	11/09/18 21:43	20
Nitrobenzene-d5	140	X	23 - 120	11/09/18 11:14	11/13/18 18:16	500
2-Fluorobiphenyl (Surr)	86		38 - 123	11/09/18 11:14	11/09/18 21:43	20
2-Fluorobiphenyl (Surr)	98		38 - 123	11/09/18 11:14	11/13/18 18:16	500
p-Terphenyl-d14	88		68 - 136	11/09/18 11:14	11/09/18 21:43	20
p-Terphenyl-d14	149	X	68 - 136	11/09/18 11:14	11/13/18 18:16	500

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	380		5.1		mg/Kg	☼	11/14/18 08:57	11/15/18 16:34	2

Client Sample ID: TP-54-6

Lab Sample ID: 590-9901-21

Date Collected: 11/08/18 14:15

Matrix: Solid

Date Received: 11/08/18 16:20

Percent Solids: 83.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	17		12		ug/Kg	☼	11/09/18 11:14	11/09/18 22:08	1
2-Methylnaphthalene	18		12		ug/Kg	☼	11/09/18 11:14	11/09/18 22:08	1
1-Methylnaphthalene	15		12		ug/Kg	☼	11/09/18 11:14	11/09/18 22:08	1
Acenaphthylene	ND		12		ug/Kg	☼	11/09/18 11:14	11/09/18 22:08	1
Acenaphthene	150		12		ug/Kg	☼	11/09/18 11:14	11/09/18 22:08	1
Fluorene	56		12		ug/Kg	☼	11/09/18 11:14	11/09/18 22:08	1
Phenanthrene	870		12		ug/Kg	☼	11/09/18 11:14	11/09/18 22:08	1
Anthracene	230		12		ug/Kg	☼	11/09/18 11:14	11/09/18 22:08	1
Fluoranthene	1800		12		ug/Kg	☼	11/09/18 11:14	11/09/18 22:08	1
Pyrene	2200		12		ug/Kg	☼	11/09/18 11:14	11/09/18 22:08	1
Benzo[a]anthracene	1500		12		ug/Kg	☼	11/09/18 11:14	11/09/18 22:08	1
Chrysene	1800		12		ug/Kg	☼	11/09/18 11:14	11/09/18 22:08	1
Benzo[b]fluoranthene	2200		12		ug/Kg	☼	11/09/18 11:14	11/09/18 22:08	1
Benzo[k]fluoranthene	830		12		ug/Kg	☼	11/09/18 11:14	11/09/18 22:08	1
Benzo[a]pyrene	2100		12		ug/Kg	☼	11/09/18 11:14	11/09/18 22:08	1
Indeno[1,2,3-cd]pyrene	950		12		ug/Kg	☼	11/09/18 11:14	11/09/18 22:08	1
Dibenz(a,h)anthracene	340		12		ug/Kg	☼	11/09/18 11:14	11/09/18 22:08	1
Benzo[g,h,i]perylene	1200		12		ug/Kg	☼	11/09/18 11:14	11/09/18 22:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	78		23 - 120	11/09/18 11:14	11/09/18 22:08	1
2-Fluorobiphenyl (Surr)	86		38 - 123	11/09/18 11:14	11/09/18 22:08	1
p-Terphenyl-d14	94		68 - 136	11/09/18 11:14	11/09/18 22:08	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	220		2.9		mg/Kg	☼	11/14/18 08:57	11/15/18 15:42	1

TestAmerica Spokane

Client Sample Results

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014001

TestAmerica Job ID: 590-9901-3

Client Sample ID: TP-55-6

Lab Sample ID: 590-9901-23

Date Collected: 11/08/18 14:20

Matrix: Solid

Date Received: 11/08/18 16:20

Percent Solids: 83.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	57		12		ug/Kg	☼	11/09/18 11:14	11/09/18 22:33	1
2-Methylnaphthalene	59		12		ug/Kg	☼	11/09/18 11:14	11/09/18 22:33	1
1-Methylnaphthalene	39		12		ug/Kg	☼	11/09/18 11:14	11/09/18 22:33	1
Acenaphthylene	ND		12		ug/Kg	☼	11/09/18 11:14	11/09/18 22:33	1
Acenaphthene	910		12		ug/Kg	☼	11/09/18 11:14	11/09/18 22:33	1
Fluorene	190		12		ug/Kg	☼	11/09/18 11:14	11/09/18 22:33	1
Phenanthrene	3200		120		ug/Kg	☼	11/09/18 11:14	11/13/18 18:41	10
Anthracene	900		12		ug/Kg	☼	11/09/18 11:14	11/09/18 22:33	1
Fluoranthene	6700		120		ug/Kg	☼	11/09/18 11:14	11/13/18 18:41	10
Pyrene	8700		120		ug/Kg	☼	11/09/18 11:14	11/13/18 18:41	10
Benzo[a]anthracene	5400		120		ug/Kg	☼	11/09/18 11:14	11/13/18 18:41	10
Chrysene	6600		120		ug/Kg	☼	11/09/18 11:14	11/13/18 18:41	10
Benzo[b]fluoranthene	7000		120		ug/Kg	☼	11/09/18 11:14	11/13/18 18:41	10
Benzo[k]fluoranthene	3100		120		ug/Kg	☼	11/09/18 11:14	11/13/18 18:41	10
Benzo[a]pyrene	7500		120		ug/Kg	☼	11/09/18 11:14	11/13/18 18:41	10
Indeno[1,2,3-cd]pyrene	3500		120		ug/Kg	☼	11/09/18 11:14	11/13/18 18:41	10
Dibenz(a,h)anthracene	1100		12		ug/Kg	☼	11/09/18 11:14	11/09/18 22:33	1
Benzo[g,h,i]perylene	3600		120		ug/Kg	☼	11/09/18 11:14	11/13/18 18:41	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	72		23 - 120	11/09/18 11:14	11/09/18 22:33	1
Nitrobenzene-d5	69		23 - 120	11/09/18 11:14	11/13/18 18:41	10
2-Fluorobiphenyl (Surr)	81		38 - 123	11/09/18 11:14	11/09/18 22:33	1
2-Fluorobiphenyl (Surr)	75		38 - 123	11/09/18 11:14	11/13/18 18:41	10
p-Terphenyl-d14	79		68 - 136	11/09/18 11:14	11/09/18 22:33	1
p-Terphenyl-d14	84		68 - 136	11/09/18 11:14	11/13/18 18:41	10

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	18		3.0		mg/Kg	☼	11/14/18 08:57	11/15/18 15:46	1

Client Sample ID: TP-44-6

Lab Sample ID: 590-9901-25

Date Collected: 11/08/18 11:56

Matrix: Solid

Date Received: 11/08/18 16:20

Percent Solids: 86.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		11		ug/Kg	☼	11/09/18 11:14	11/09/18 22:58	1
2-Methylnaphthalene	ND		11		ug/Kg	☼	11/09/18 11:14	11/09/18 22:58	1
1-Methylnaphthalene	ND		11		ug/Kg	☼	11/09/18 11:14	11/09/18 22:58	1
Acenaphthylene	ND		11		ug/Kg	☼	11/09/18 11:14	11/09/18 22:58	1
Acenaphthene	ND		11		ug/Kg	☼	11/09/18 11:14	11/09/18 22:58	1
Fluorene	ND		11		ug/Kg	☼	11/09/18 11:14	11/09/18 22:58	1
Phenanthrene	ND		11		ug/Kg	☼	11/09/18 11:14	11/09/18 22:58	1
Anthracene	ND		11		ug/Kg	☼	11/09/18 11:14	11/09/18 22:58	1
Fluoranthene	ND		11		ug/Kg	☼	11/09/18 11:14	11/09/18 22:58	1
Pyrene	ND		11		ug/Kg	☼	11/09/18 11:14	11/09/18 22:58	1
Benzo[a]anthracene	ND		11		ug/Kg	☼	11/09/18 11:14	11/09/18 22:58	1
Chrysene	ND		11		ug/Kg	☼	11/09/18 11:14	11/09/18 22:58	1
Benzo[b]fluoranthene	ND		11		ug/Kg	☼	11/09/18 11:14	11/09/18 22:58	1

TestAmerica Spokane

Client Sample Results

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014001

TestAmerica Job ID: 590-9901-3

Client Sample ID: TP-44-6

Date Collected: 11/08/18 11:56

Date Received: 11/08/18 16:20

Lab Sample ID: 590-9901-25

Matrix: Solid

Percent Solids: 86.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	ND		11		ug/Kg	☼	11/09/18 11:14	11/09/18 22:58	1
Benzo[a]pyrene	ND		11		ug/Kg	☼	11/09/18 11:14	11/09/18 22:58	1
Indeno[1,2,3-cd]pyrene	ND		11		ug/Kg	☼	11/09/18 11:14	11/09/18 22:58	1
Dibenz(a,h)anthracene	ND		11		ug/Kg	☼	11/09/18 11:14	11/09/18 22:58	1
Benzo[g,h,i]perylene	ND		11		ug/Kg	☼	11/09/18 11:14	11/09/18 22:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	76		23 - 120				11/09/18 11:14	11/09/18 22:58	1
2-Fluorobiphenyl (Surr)	84		38 - 123				11/09/18 11:14	11/09/18 22:58	1
p-Terphenyl-d14	96		68 - 136				11/09/18 11:14	11/09/18 22:58	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	20		2.7		mg/Kg	☼	11/14/18 08:57	11/15/18 15:50	1

Client Sample ID: TP-45-6

Date Collected: 11/08/18 12:20

Date Received: 11/08/18 16:20

Lab Sample ID: 590-9901-27

Matrix: Solid

Percent Solids: 88.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		11		ug/Kg	☼	11/09/18 11:14	11/09/18 23:22	1
2-Methylnaphthalene	ND		11		ug/Kg	☼	11/09/18 11:14	11/09/18 23:22	1
1-Methylnaphthalene	ND		11		ug/Kg	☼	11/09/18 11:14	11/09/18 23:22	1
Acenaphthylene	ND		11		ug/Kg	☼	11/09/18 11:14	11/09/18 23:22	1
Acenaphthene	ND		11		ug/Kg	☼	11/09/18 11:14	11/09/18 23:22	1
Fluorene	ND		11		ug/Kg	☼	11/09/18 11:14	11/09/18 23:22	1
Phenanthrene	23		11		ug/Kg	☼	11/09/18 11:14	11/09/18 23:22	1
Anthracene	ND		11		ug/Kg	☼	11/09/18 11:14	11/09/18 23:22	1
Fluoranthene	68		11		ug/Kg	☼	11/09/18 11:14	11/09/18 23:22	1
Pyrene	100		11		ug/Kg	☼	11/09/18 11:14	11/09/18 23:22	1
Benzo[a]anthracene	58		11		ug/Kg	☼	11/09/18 11:14	11/09/18 23:22	1
Chrysene	82		11		ug/Kg	☼	11/09/18 11:14	11/09/18 23:22	1
Benzo[b]fluoranthene	100		11		ug/Kg	☼	11/09/18 11:14	11/09/18 23:22	1
Benzo[k]fluoranthene	43		11		ug/Kg	☼	11/09/18 11:14	11/09/18 23:22	1
Benzo[a]pyrene	96		11		ug/Kg	☼	11/09/18 11:14	11/09/18 23:22	1
Indeno[1,2,3-cd]pyrene	53		11		ug/Kg	☼	11/09/18 11:14	11/09/18 23:22	1
Dibenz(a,h)anthracene	17		11		ug/Kg	☼	11/09/18 11:14	11/09/18 23:22	1
Benzo[g,h,i]perylene	61		11		ug/Kg	☼	11/09/18 11:14	11/09/18 23:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	75		23 - 120				11/09/18 11:14	11/09/18 23:22	1
2-Fluorobiphenyl (Surr)	86		38 - 123				11/09/18 11:14	11/09/18 23:22	1
p-Terphenyl-d14	100		68 - 136				11/09/18 11:14	11/09/18 23:22	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	100		2.9		mg/Kg	☼	11/14/18 08:57	11/15/18 15:54	1

TestAmerica Spokane

Client Sample Results

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014001

TestAmerica Job ID: 590-9901-3

Client Sample ID: TP-46-6

Lab Sample ID: 590-9901-29

Date Collected: 11/08/18 12:00

Matrix: Solid

Date Received: 11/08/18 16:20

Percent Solids: 85.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		12		ug/Kg	☼	11/09/18 11:14	11/09/18 23:47	1
2-Methylnaphthalene	ND		12		ug/Kg	☼	11/09/18 11:14	11/09/18 23:47	1
1-Methylnaphthalene	ND		12		ug/Kg	☼	11/09/18 11:14	11/09/18 23:47	1
Acenaphthylene	ND		12		ug/Kg	☼	11/09/18 11:14	11/09/18 23:47	1
Acenaphthene	ND		12		ug/Kg	☼	11/09/18 11:14	11/09/18 23:47	1
Fluorene	ND		12		ug/Kg	☼	11/09/18 11:14	11/09/18 23:47	1
Phenanthrene	20		12		ug/Kg	☼	11/09/18 11:14	11/09/18 23:47	1
Anthracene	ND		12		ug/Kg	☼	11/09/18 11:14	11/09/18 23:47	1
Fluoranthene	46		12		ug/Kg	☼	11/09/18 11:14	11/09/18 23:47	1
Pyrene	67		12		ug/Kg	☼	11/09/18 11:14	11/09/18 23:47	1
Benzo[a]anthracene	39		12		ug/Kg	☼	11/09/18 11:14	11/09/18 23:47	1
Chrysene	51		12		ug/Kg	☼	11/09/18 11:14	11/09/18 23:47	1
Benzo[b]fluoranthene	65		12		ug/Kg	☼	11/09/18 11:14	11/09/18 23:47	1
Benzo[k]fluoranthene	26		12		ug/Kg	☼	11/09/18 11:14	11/09/18 23:47	1
Benzo[a]pyrene	57		12		ug/Kg	☼	11/09/18 11:14	11/09/18 23:47	1
Indeno[1,2,3-cd]pyrene	31		12		ug/Kg	☼	11/09/18 11:14	11/09/18 23:47	1
Dibenz(a,h)anthracene	ND		12		ug/Kg	☼	11/09/18 11:14	11/09/18 23:47	1
Benzo[g,h,i]perylene	37		12		ug/Kg	☼	11/09/18 11:14	11/09/18 23:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	75		23 - 120	11/09/18 11:14	11/09/18 23:47	1
2-Fluorobiphenyl (Surr)	79		38 - 123	11/09/18 11:14	11/09/18 23:47	1
p-Terphenyl-d14	87		68 - 136	11/09/18 11:14	11/09/18 23:47	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	2600		2.7		mg/Kg	☼	11/14/18 08:57	11/15/18 15:57	1

Client Sample ID: TP-47-6

Lab Sample ID: 590-9901-31

Date Collected: 11/08/18 11:45

Matrix: Solid

Date Received: 11/08/18 16:20

Percent Solids: 85.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		11		ug/Kg	☼	11/09/18 11:14	11/09/18 00:12	1
2-Methylnaphthalene	ND		11		ug/Kg	☼	11/09/18 11:14	11/09/18 00:12	1
1-Methylnaphthalene	ND		11		ug/Kg	☼	11/09/18 11:14	11/09/18 00:12	1
Acenaphthylene	ND		11		ug/Kg	☼	11/09/18 11:14	11/09/18 00:12	1
Acenaphthene	ND		11		ug/Kg	☼	11/09/18 11:14	11/09/18 00:12	1
Fluorene	ND		11		ug/Kg	☼	11/09/18 11:14	11/09/18 00:12	1
Phenanthrene	ND		11		ug/Kg	☼	11/09/18 11:14	11/09/18 00:12	1
Anthracene	ND		11		ug/Kg	☼	11/09/18 11:14	11/09/18 00:12	1
Fluoranthene	20		11		ug/Kg	☼	11/09/18 11:14	11/09/18 00:12	1
Pyrene	25		11		ug/Kg	☼	11/09/18 11:14	11/09/18 00:12	1
Benzo[a]anthracene	15		11		ug/Kg	☼	11/09/18 11:14	11/09/18 00:12	1
Chrysene	21		11		ug/Kg	☼	11/09/18 11:14	11/09/18 00:12	1
Benzo[b]fluoranthene	27		11		ug/Kg	☼	11/09/18 11:14	11/09/18 00:12	1
Benzo[k]fluoranthene	ND		11		ug/Kg	☼	11/09/18 11:14	11/09/18 00:12	1
Benzo[a]pyrene	23		11		ug/Kg	☼	11/09/18 11:14	11/09/18 00:12	1
Indeno[1,2,3-cd]pyrene	13		11		ug/Kg	☼	11/09/18 11:14	11/09/18 00:12	1

TestAmerica Spokane

Client Sample Results

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014001

TestAmerica Job ID: 590-9901-3

Client Sample ID: TP-47-6

Lab Sample ID: 590-9901-31

Date Collected: 11/08/18 11:45

Matrix: Solid

Date Received: 11/08/18 16:20

Percent Solids: 85.8

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	ND		11		ug/Kg	☼	11/09/18 11:14	11/09/18 00:12	1
Benzo[g,h,i]perylene	15		11		ug/Kg	☼	11/09/18 11:14	11/09/18 00:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	73		23 - 120				11/09/18 11:14	11/09/18 00:12	1
2-Fluorobiphenyl (Surr)	81		38 - 123				11/09/18 11:14	11/09/18 00:12	1
p-Terphenyl-d14	91		68 - 136				11/09/18 11:14	11/09/18 00:12	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	230		2.8		mg/Kg	☼	11/14/18 08:57	11/15/18 16:01	1

Client Sample ID: TP-48-6

Lab Sample ID: 590-9901-33

Date Collected: 11/08/18 12:01

Matrix: Solid

Date Received: 11/08/18 16:20

Percent Solids: 88.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		11		ug/Kg	☼	11/13/18 12:25	11/13/18 17:01	1
2-Methylnaphthalene	ND		11		ug/Kg	☼	11/13/18 12:25	11/13/18 17:01	1
1-Methylnaphthalene	ND		11		ug/Kg	☼	11/13/18 12:25	11/13/18 17:01	1
Acenaphthylene	ND		11		ug/Kg	☼	11/13/18 12:25	11/13/18 17:01	1
Acenaphthene	ND		11		ug/Kg	☼	11/13/18 12:25	11/13/18 17:01	1
Fluorene	ND		11		ug/Kg	☼	11/13/18 12:25	11/13/18 17:01	1
Phenanthrene	ND		11		ug/Kg	☼	11/13/18 12:25	11/13/18 17:01	1
Anthracene	ND		11		ug/Kg	☼	11/13/18 12:25	11/13/18 17:01	1
Fluoranthene	ND		11		ug/Kg	☼	11/13/18 12:25	11/13/18 17:01	1
Pyrene	11		11		ug/Kg	☼	11/13/18 12:25	11/13/18 17:01	1
Benzo[a]anthracene	ND		11		ug/Kg	☼	11/13/18 12:25	11/13/18 17:01	1
Chrysene	ND		11		ug/Kg	☼	11/13/18 12:25	11/13/18 17:01	1
Benzo[b]fluoranthene	12		11		ug/Kg	☼	11/13/18 12:25	11/13/18 17:01	1
Benzo[k]fluoranthene	ND		11		ug/Kg	☼	11/13/18 12:25	11/13/18 17:01	1
Benzo[a]pyrene	11		11		ug/Kg	☼	11/13/18 12:25	11/13/18 17:01	1
Indeno[1,2,3-cd]pyrene	ND		11		ug/Kg	☼	11/13/18 12:25	11/13/18 17:01	1
Dibenz(a,h)anthracene	ND		11		ug/Kg	☼	11/13/18 12:25	11/13/18 17:01	1
Benzo[g,h,i]perylene	ND		11		ug/Kg	☼	11/13/18 12:25	11/13/18 17:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	62		23 - 120				11/13/18 12:25	11/13/18 17:01	1
2-Fluorobiphenyl (Surr)	62		38 - 123				11/13/18 12:25	11/13/18 17:01	1
p-Terphenyl-d14	77		68 - 136				11/13/18 12:25	11/13/18 17:01	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	330		2.4		mg/Kg	☼	11/14/18 08:57	11/15/18 16:06	1

TestAmerica Spokane

Client Sample Results

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014001

TestAmerica Job ID: 590-9901-3

Client Sample ID: TP-49-6

Lab Sample ID: 590-9901-35

Date Collected: 11/08/18 12:41

Matrix: Solid

Date Received: 11/08/18 16:20

Percent Solids: 87.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		11		ug/Kg	☼	11/13/18 12:25	11/13/18 17:26	1
2-Methylnaphthalene	ND		11		ug/Kg	☼	11/13/18 12:25	11/13/18 17:26	1
1-Methylnaphthalene	ND		11		ug/Kg	☼	11/13/18 12:25	11/13/18 17:26	1
Acenaphthylene	ND		11		ug/Kg	☼	11/13/18 12:25	11/13/18 17:26	1
Acenaphthene	ND		11		ug/Kg	☼	11/13/18 12:25	11/13/18 17:26	1
Fluorene	ND		11		ug/Kg	☼	11/13/18 12:25	11/13/18 17:26	1
Phenanthrene	ND		11		ug/Kg	☼	11/13/18 12:25	11/13/18 17:26	1
Anthracene	ND		11		ug/Kg	☼	11/13/18 12:25	11/13/18 17:26	1
Fluoranthene	ND		11		ug/Kg	☼	11/13/18 12:25	11/13/18 17:26	1
Pyrene	ND		11		ug/Kg	☼	11/13/18 12:25	11/13/18 17:26	1
Benzo[a]anthracene	ND		11		ug/Kg	☼	11/13/18 12:25	11/13/18 17:26	1
Chrysene	ND		11		ug/Kg	☼	11/13/18 12:25	11/13/18 17:26	1
Benzo[b]fluoranthene	ND		11		ug/Kg	☼	11/13/18 12:25	11/13/18 17:26	1
Benzo[k]fluoranthene	ND		11		ug/Kg	☼	11/13/18 12:25	11/13/18 17:26	1
Benzo[a]pyrene	ND		11		ug/Kg	☼	11/13/18 12:25	11/13/18 17:26	1
Indeno[1,2,3-cd]pyrene	ND		11		ug/Kg	☼	11/13/18 12:25	11/13/18 17:26	1
Dibenz(a,h)anthracene	ND		11		ug/Kg	☼	11/13/18 12:25	11/13/18 17:26	1
Benzo[g,h,i]perylene	ND		11		ug/Kg	☼	11/13/18 12:25	11/13/18 17:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	61		23 - 120	11/13/18 12:25	11/13/18 17:26	1
2-Fluorobiphenyl (Surr)	63		38 - 123	11/13/18 12:25	11/13/18 17:26	1
p-Terphenyl-d14	80		68 - 136	11/13/18 12:25	11/13/18 17:26	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	17		2.8		mg/Kg	☼	11/14/18 08:57	11/15/18 16:09	1

QC Sample Results

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014001

TestAmerica Job ID: 590-9901-3

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

Lab Sample ID: MB 590-19853/1-A
Matrix: Solid
Analysis Batch: 19855

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 19853

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		10		ug/Kg		11/09/18 11:14	11/09/18 14:40	1
2-Methylnaphthalene	ND		10		ug/Kg		11/09/18 11:14	11/09/18 14:40	1
1-Methylnaphthalene	ND		10		ug/Kg		11/09/18 11:14	11/09/18 14:40	1
Acenaphthylene	ND		10		ug/Kg		11/09/18 11:14	11/09/18 14:40	1
Acenaphthene	ND		10		ug/Kg		11/09/18 11:14	11/09/18 14:40	1
Fluorene	ND		10		ug/Kg		11/09/18 11:14	11/09/18 14:40	1
Phenanthrene	ND		10		ug/Kg		11/09/18 11:14	11/09/18 14:40	1
Anthracene	ND		10		ug/Kg		11/09/18 11:14	11/09/18 14:40	1
Fluoranthene	ND		10		ug/Kg		11/09/18 11:14	11/09/18 14:40	1
Pyrene	ND		10		ug/Kg		11/09/18 11:14	11/09/18 14:40	1
Benzo[a]anthracene	ND		10		ug/Kg		11/09/18 11:14	11/09/18 14:40	1
Chrysene	ND		10		ug/Kg		11/09/18 11:14	11/09/18 14:40	1
Benzo[b]fluoranthene	ND		10		ug/Kg		11/09/18 11:14	11/09/18 14:40	1
Benzo[k]fluoranthene	ND		10		ug/Kg		11/09/18 11:14	11/09/18 14:40	1
Benzo[a]pyrene	ND		10		ug/Kg		11/09/18 11:14	11/09/18 14:40	1
Indeno[1,2,3-cd]pyrene	ND		10		ug/Kg		11/09/18 11:14	11/09/18 14:40	1
Dibenz(a,h)anthracene	ND		10		ug/Kg		11/09/18 11:14	11/09/18 14:40	1
Benzo[g,h,i]perylene	ND		10		ug/Kg		11/09/18 11:14	11/09/18 14:40	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	76		23 - 120	11/09/18 11:14	11/09/18 14:40	1
2-Fluorobiphenyl (Surr)	83		38 - 123	11/09/18 11:14	11/09/18 14:40	1
p-Terphenyl-d14	94		68 - 136	11/09/18 11:14	11/09/18 14:40	1

Lab Sample ID: LCS 590-19853/2-A
Matrix: Solid
Analysis Batch: 19855

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 19853

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Naphthalene	267	148		ug/Kg		56	41 - 121
2-Methylnaphthalene	267	177		ug/Kg		66	39 - 132
1-Methylnaphthalene	267	197		ug/Kg		74	46 - 131
Acenaphthylene	267	201		ug/Kg		75	56 - 123
Acenaphthene	267	198		ug/Kg		74	43 - 140
Fluorene	267	204		ug/Kg		76	54 - 131
Phenanthrene	267	187		ug/Kg		70	55 - 141
Anthracene	267	239		ug/Kg		90	60 - 129
Fluoranthene	267	189		ug/Kg		71	63 - 141
Pyrene	267	210		ug/Kg		79	62 - 139
Benzo[a]anthracene	267	212		ug/Kg		80	61 - 136
Chrysene	267	220		ug/Kg		82	57 - 144
Benzo[b]fluoranthene	267	184		ug/Kg		69	66 - 141
Benzo[k]fluoranthene	267	183		ug/Kg		68	63 - 150
Benzo[a]pyrene	267	195		ug/Kg		73	60 - 133
Indeno[1,2,3-cd]pyrene	267	190		ug/Kg		71	55 - 142
Dibenz(a,h)anthracene	267	195		ug/Kg		73	60 - 150
Benzo[g,h,i]perylene	267	201		ug/Kg		75	58 - 147

TestAmerica Spokane

QC Sample Results

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014001

TestAmerica Job ID: 590-9901-3

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

Lab Sample ID: LCS 590-19853/2-A
Matrix: Solid
Analysis Batch: 19855

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 19853

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
Nitrobenzene-d5	68		23 - 120
2-Fluorobiphenyl (Surr)	78		38 - 123
p-Terphenyl-d14	93		68 - 136

Lab Sample ID: MB 590-19884/1-A
Matrix: Solid
Analysis Batch: 19883

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 19884

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Naphthalene	ND		10		ug/Kg		11/13/18 12:25	11/13/18 13:44	1
2-Methylnaphthalene	ND		10		ug/Kg		11/13/18 12:25	11/13/18 13:44	1
1-Methylnaphthalene	ND		10		ug/Kg		11/13/18 12:25	11/13/18 13:44	1
Acenaphthylene	ND		10		ug/Kg		11/13/18 12:25	11/13/18 13:44	1
Acenaphthene	ND		10		ug/Kg		11/13/18 12:25	11/13/18 13:44	1
Fluorene	ND		10		ug/Kg		11/13/18 12:25	11/13/18 13:44	1
Phenanthrene	ND		10		ug/Kg		11/13/18 12:25	11/13/18 13:44	1
Anthracene	ND		10		ug/Kg		11/13/18 12:25	11/13/18 13:44	1
Fluoranthene	ND		10		ug/Kg		11/13/18 12:25	11/13/18 13:44	1
Pyrene	ND		10		ug/Kg		11/13/18 12:25	11/13/18 13:44	1
Benzo[a]anthracene	ND		10		ug/Kg		11/13/18 12:25	11/13/18 13:44	1
Chrysene	ND		10		ug/Kg		11/13/18 12:25	11/13/18 13:44	1
Benzo[b]fluoranthene	ND		10		ug/Kg		11/13/18 12:25	11/13/18 13:44	1
Benzo[k]fluoranthene	ND		10		ug/Kg		11/13/18 12:25	11/13/18 13:44	1
Benzo[a]pyrene	ND		10		ug/Kg		11/13/18 12:25	11/13/18 13:44	1
Indeno[1,2,3-cd]pyrene	ND		10		ug/Kg		11/13/18 12:25	11/13/18 13:44	1
Dibenz(a,h)anthracene	ND		10		ug/Kg		11/13/18 12:25	11/13/18 13:44	1
Benzo[g,h,i]perylene	ND		10		ug/Kg		11/13/18 12:25	11/13/18 13:44	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
Nitrobenzene-d5	78		23 - 120	11/13/18 12:25	11/13/18 13:44	1
2-Fluorobiphenyl (Surr)	85		38 - 123	11/13/18 12:25	11/13/18 13:44	1
p-Terphenyl-d14	91		68 - 136	11/13/18 12:25	11/13/18 13:44	1

Lab Sample ID: LCS 590-19884/2-A
Matrix: Solid
Analysis Batch: 19883

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 19884

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
Naphthalene	267	190		ug/Kg		71	41 - 121
2-Methylnaphthalene	267	195		ug/Kg		73	39 - 132
1-Methylnaphthalene	267	213		ug/Kg		80	46 - 131
Acenaphthylene	267	199		ug/Kg		75	56 - 123
Acenaphthene	267	205		ug/Kg		77	43 - 140
Fluorene	267	187		ug/Kg		70	54 - 131
Phenanthrene	267	205		ug/Kg		77	55 - 141
Anthracene	267	261		ug/Kg		98	60 - 129
Fluoranthene	267	210		ug/Kg		79	63 - 141
Pyrene	267	226		ug/Kg		85	62 - 139

TestAmerica Spokane

QC Sample Results

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014001

TestAmerica Job ID: 590-9901-3

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

Lab Sample ID: LCS 590-19884/2-A
Matrix: Solid
Analysis Batch: 19883

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 19884

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzo[a]anthracene	267	210		ug/Kg		79	61 - 136
Chrysene	267	226		ug/Kg		85	57 - 144
Benzo[b]fluoranthene	267	216		ug/Kg		81	66 - 141
Benzo[k]fluoranthene	267	213		ug/Kg		80	63 - 150
Benzo[a]pyrene	267	207		ug/Kg		78	60 - 133
Indeno[1,2,3-cd]pyrene	267	206		ug/Kg		77	55 - 142
Dibenz(a,h)anthracene	267	218		ug/Kg		82	60 - 150
Benzo[g,h,i]perylene	267	217		ug/Kg		81	58 - 147

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Nitrobenzene-d5	76		23 - 120
2-Fluorobiphenyl (Surr)	81		38 - 123
p-Terphenyl-d14	91		68 - 136

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 590-19898/2-A
Matrix: Solid
Analysis Batch: 19936

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 19898

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		3.0		mg/Kg		11/14/18 08:57	11/15/18 14:51	1

Lab Sample ID: LCS 590-19898/1-A
Matrix: Solid
Analysis Batch: 19936

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 19898

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	50.0	51.8		mg/Kg		104	80 - 120

Lab Chronicle

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014001

TestAmerica Job ID: 590-9901-3

Client Sample ID: TP-56-6

Date Collected: 11/08/18 14:30

Date Received: 11/08/18 16:20

Lab Sample ID: 590-9901-1

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			19850	11/09/18 10:41	MO	TAL SPK

Client Sample ID: TP-56-6

Date Collected: 11/08/18 14:30

Date Received: 11/08/18 16:20

Lab Sample ID: 590-9901-1

Matrix: Solid

Percent Solids: 91.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			15.69 g	2 mL	19853	11/09/18 11:14	MO	TAL SPK
Total/NA	Analysis	8270D SIM		10			19855	11/09/18 20:03	NMI	TAL SPK
Total/NA	Prep	3050B			1.38 g	50 mL	19898	11/14/18 08:57	JSP	TAL SPK
Total/NA	Analysis	6010C		1			19936	11/15/18 15:14	JSP	TAL SPK

Client Sample ID: TP-50-6

Date Collected: 11/08/18 12:51

Date Received: 11/08/18 16:20

Lab Sample ID: 590-9901-13

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			19850	11/09/18 10:41	MO	TAL SPK

Client Sample ID: TP-50-6

Date Collected: 11/08/18 12:51

Date Received: 11/08/18 16:20

Lab Sample ID: 590-9901-13

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			15.63 g	2 mL	19853	11/09/18 11:14	MO	TAL SPK
Total/NA	Analysis	8270D SIM		10			19855	11/09/18 20:28	NMI	TAL SPK
Total/NA	Prep	3050B			1.28 g	50 mL	19898	11/14/18 08:57	JSP	TAL SPK
Total/NA	Analysis	6010C		2			19936	11/15/18 16:26	JSP	TAL SPK

Client Sample ID: TP-51-6

Date Collected: 11/08/18 13:50

Date Received: 11/08/18 16:20

Lab Sample ID: 590-9901-15

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			19850	11/09/18 10:41	MO	TAL SPK

Client Sample ID: TP-51-6

Date Collected: 11/08/18 13:50

Date Received: 11/08/18 16:20

Lab Sample ID: 590-9901-15

Matrix: Solid

Percent Solids: 86.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			15.40 g	2 mL	19853	11/09/18 11:14	MO	TAL SPK

TestAmerica Spokane

Lab Chronicle

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014001

TestAmerica Job ID: 590-9901-3

Client Sample ID: TP-51-6

Date Collected: 11/08/18 13:50

Date Received: 11/08/18 16:20

Lab Sample ID: 590-9901-15

Matrix: Solid

Percent Solids: 86.2

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			19855	11/09/18 20:53	NMI	TAL SPK
Total/NA	Prep	3050B			1.50 g	50 mL	19898	11/14/18 08:57	JSP	TAL SPK
Total/NA	Analysis	6010C		1			19936	11/15/18 15:22	JSP	TAL SPK

Client Sample ID: TP-52-6

Date Collected: 11/08/18 13:40

Date Received: 11/08/18 16:20

Lab Sample ID: 590-9901-17

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			19850	11/09/18 10:41	MO	TAL SPK

Client Sample ID: TP-52-6

Date Collected: 11/08/18 13:40

Date Received: 11/08/18 16:20

Lab Sample ID: 590-9901-17

Matrix: Solid

Percent Solids: 81.1

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	19853	11/09/18 11:14	MO	TAL SPK
Total/NA	Analysis	8270D SIM		20			19855	11/09/18 21:18	NMI	TAL SPK
Total/NA	Prep	3550C			15.28 g	2 mL	19853	11/09/18 11:14	MO	TAL SPK
Total/NA	Analysis	8270D SIM		200			19883	11/13/18 17:51	NMI	TAL SPK
Total/NA	Prep	3050B			1.66 g	50 mL	19898	11/14/18 08:57	JSP	TAL SPK
Total/NA	Analysis	6010C		5			19936	11/15/18 16:30	JSP	TAL SPK

Client Sample ID: TP-53-6

Date Collected: 11/08/18 14:55

Date Received: 11/08/18 16:20

Lab Sample ID: 590-9901-19

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			19850	11/09/18 10:41	MO	TAL SPK

Client Sample ID: TP-53-6

Date Collected: 11/08/18 14:55

Date Received: 11/08/18 16:20

Lab Sample ID: 590-9901-19

Matrix: Solid

Percent Solids: 90.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			15.75 g	2 mL	19853	11/09/18 11:14	MO	TAL SPK
Total/NA	Analysis	8270D SIM		20			19855	11/09/18 21:43	NMI	TAL SPK
Total/NA	Prep	3550C			15.75 g	2 mL	19853	11/09/18 11:14	MO	TAL SPK
Total/NA	Analysis	8270D SIM		500			19883	11/13/18 18:16	NMI	TAL SPK
Total/NA	Prep	3050B			1.31 g	50 mL	19898	11/14/18 08:57	JSP	TAL SPK
Total/NA	Analysis	6010C		2			19936	11/15/18 16:34	JSP	TAL SPK

TestAmerica Spokane

Lab Chronicle

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014001

TestAmerica Job ID: 590-9901-3

Client Sample ID: TP-54-6

Date Collected: 11/08/18 14:15

Date Received: 11/08/18 16:20

Lab Sample ID: 590-9901-21

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			19850	11/09/18 10:41	MO	TAL SPK

Client Sample ID: TP-54-6

Date Collected: 11/08/18 14:15

Date Received: 11/08/18 16:20

Lab Sample ID: 590-9901-21

Matrix: Solid

Percent Solids: 83.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			15.39 g	2 mL	19853	11/09/18 11:14	MO	TAL SPK
Total/NA	Analysis	8270D SIM		1			19855	11/09/18 22:08	NMI	TAL SPK
Total/NA	Prep	3050B			1.26 g	50 mL	19898	11/14/18 08:57	JSP	TAL SPK
Total/NA	Analysis	6010C		1			19936	11/15/18 15:42	JSP	TAL SPK

Client Sample ID: TP-55-6

Date Collected: 11/08/18 14:20

Date Received: 11/08/18 16:20

Lab Sample ID: 590-9901-23

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			19850	11/09/18 10:41	MO	TAL SPK

Client Sample ID: TP-55-6

Date Collected: 11/08/18 14:20

Date Received: 11/08/18 16:20

Lab Sample ID: 590-9901-23

Matrix: Solid

Percent Solids: 83.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			15.56 g	2 mL	19853	11/09/18 11:14	MO	TAL SPK
Total/NA	Analysis	8270D SIM		1			19855	11/09/18 22:33	NMI	TAL SPK
Total/NA	Prep	3550C			15.56 g	2 mL	19853	11/09/18 11:14	MO	TAL SPK
Total/NA	Analysis	8270D SIM		10			19883	11/13/18 18:41	NMI	TAL SPK
Total/NA	Prep	3050B			1.20 g	50 mL	19898	11/14/18 08:57	JSP	TAL SPK
Total/NA	Analysis	6010C		1			19936	11/15/18 15:46	JSP	TAL SPK

Client Sample ID: TP-44-6

Date Collected: 11/08/18 11:56

Date Received: 11/08/18 16:20

Lab Sample ID: 590-9901-25

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			19850	11/09/18 10:41	MO	TAL SPK

TestAmerica Spokane

Lab Chronicle

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014001

TestAmerica Job ID: 590-9901-3

Client Sample ID: TP-44-6

Date Collected: 11/08/18 11:56

Date Received: 11/08/18 16:20

Lab Sample ID: 590-9901-25

Matrix: Solid

Percent Solids: 86.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			15.16 g	2 mL	19853	11/09/18 11:14	MO	TAL SPK
Total/NA	Analysis	8270D SIM		1			19855	11/09/18 22:58	NMI	TAL SPK
Total/NA	Prep	3050B			1.26 g	50 mL	19898	11/14/18 08:57	JSP	TAL SPK
Total/NA	Analysis	6010C		1			19936	11/15/18 15:50	JSP	TAL SPK

Client Sample ID: TP-45-6

Date Collected: 11/08/18 12:20

Date Received: 11/08/18 16:20

Lab Sample ID: 590-9901-27

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			19850	11/09/18 10:41	MO	TAL SPK

Client Sample ID: TP-45-6

Date Collected: 11/08/18 12:20

Date Received: 11/08/18 16:20

Lab Sample ID: 590-9901-27

Matrix: Solid

Percent Solids: 88.1

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	19853	11/09/18 11:14	MO	TAL SPK
Total/NA	Analysis	8270D SIM		1			19855	11/09/18 23:22	NMI	TAL SPK
Total/NA	Prep	3050B			1.18 g	50 mL	19898	11/14/18 08:57	JSP	TAL SPK
Total/NA	Analysis	6010C		1			19936	11/15/18 15:54	JSP	TAL SPK

Client Sample ID: TP-46-6

Date Collected: 11/08/18 12:00

Date Received: 11/08/18 16:20

Lab Sample ID: 590-9901-29

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			19850	11/09/18 10:41	MO	TAL SPK

Client Sample ID: TP-46-6

Date Collected: 11/08/18 12:00

Date Received: 11/08/18 16:20

Lab Sample ID: 590-9901-29

Matrix: Solid

Percent Solids: 85.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			15.21 g	2 mL	19853	11/09/18 11:14	MO	TAL SPK
Total/NA	Analysis	8270D SIM		1			19855	11/09/18 23:47	NMI	TAL SPK
Total/NA	Prep	3050B			1.30 g	50 mL	19898	11/14/18 08:57	JSP	TAL SPK
Total/NA	Analysis	6010C		1			19936	11/15/18 15:57	JSP	TAL SPK

Lab Chronicle

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014001

TestAmerica Job ID: 590-9901-3

Client Sample ID: TP-47-6

Date Collected: 11/08/18 11:45

Date Received: 11/08/18 16:20

Lab Sample ID: 590-9901-31

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			19850	11/09/18 10:41	MO	TAL SPK

Client Sample ID: TP-47-6

Date Collected: 11/08/18 11:45

Date Received: 11/08/18 16:20

Lab Sample ID: 590-9901-31

Matrix: Solid

Percent Solids: 85.8

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			19855	11/09/18 00:12	NMI	TAL SPK
Total/NA	Prep	3550C			15.60 g	2 mL	19853	11/09/18 11:14	MO	TAL SPK
Total/NA	Prep	3050B			1.27 g	50 mL	19898	11/14/18 08:57	JSP	TAL SPK
Total/NA	Analysis	6010C		1			19936	11/15/18 16:01	JSP	TAL SPK

Client Sample ID: TP-48-6

Date Collected: 11/08/18 12:01

Date Received: 11/08/18 16:20

Lab Sample ID: 590-9901-33

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			19850	11/09/18 10:41	MO	TAL SPK

Client Sample ID: TP-48-6

Date Collected: 11/08/18 12:01

Date Received: 11/08/18 16:20

Lab Sample ID: 590-9901-33

Matrix: Solid

Percent Solids: 88.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			15.30 g	2 mL	19884	11/13/18 12:25	NMI	TAL SPK
Total/NA	Analysis	8270D SIM		1			19883	11/13/18 17:01	NMI	TAL SPK
Total/NA	Prep	3050B			1.42 g	50 mL	19898	11/14/18 08:57	JSP	TAL SPK
Total/NA	Analysis	6010C		1			19936	11/15/18 16:06	JSP	TAL SPK

Client Sample ID: TP-49-6

Date Collected: 11/08/18 12:41

Date Received: 11/08/18 16:20

Lab Sample ID: 590-9901-35

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			19850	11/09/18 10:41	MO	TAL SPK

Client Sample ID: TP-49-6

Date Collected: 11/08/18 12:41

Date Received: 11/08/18 16:20

Lab Sample ID: 590-9901-35

Matrix: Solid

Percent Solids: 87.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			15.11 g	2 mL	19884	11/13/18 12:25	NMI	TAL SPK

TestAmerica Spokane

Lab Chronicle

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014001

TestAmerica Job ID: 590-9901-3

Client Sample ID: TP-49-6

Date Collected: 11/08/18 12:41

Date Received: 11/08/18 16:20

Lab Sample ID: 590-9901-35

Matrix: Solid

Percent Solids: 87.7

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			19883	11/13/18 17:26	NMI	TAL SPK
Total/NA	Prep	3050B			1.20 g	50 mL	19898	11/14/18 08:57	JSP	TAL SPK
Total/NA	Analysis	6010C		1			19936	11/15/18 16:09	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: CVSD/15014001

TestAmerica Job ID: 590-9901-3

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

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

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

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

Method Summary

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014001

TestAmerica Job ID: 590-9901-3

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

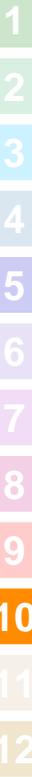
Protocol References:

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



Sample Custody Record

Samples Shipped to: Test America

HART CROWSER

HART CROWSER

Hart Crowser, Inc.
3131 Elliott Avenue, Suite 600
Seattle, Washington 98121
Office: 206.324.9530 • Fax 206.328.5581

PAGE 1 OF 4

JOB 150014001 LAB NUMBER		PROJECT NAME CVSD		HART CROWSER CONTACT Ward McDonald		SAMPLED BY: Keylin Huddleston/Ward McDonald		OBSERVATIONS/COMMENTS/ COMPOSITING INSTRUCTIONS	
LAB NO.	SAMPLE ID	DESCRIPTION	DATE	TIME	MATRIX	REQUESTED ANALYSIS	NO. OF CONTAINERS		
TP-56-6		Soil	11/8/18	14:30	Soil				
TP-56-12				14:31					
TP-57-6				11:06				48 HR TURN AROUND (TAT)	
TP-57-12				11:05				48 HR TAT	
TP-58-6				10:20				48 HR TAT	
TP-58-12				10:21				48 HR TAT	
TP-59-6				15:01				48 HR TAT	
TP-59-12				15:02				48 HR TAT	
TP-60-6				10:30				48 HR TAT	
TP-60-12				10:31				48 HR TAT	
TP-61-6				11:05				48 HR TAT	
TP-61-12				11:06				48 HR TAT	
 590-9901 Chain of Custody									
RELINQUISHED BY: <u>[Signature]</u> SIGNATURE: <u>WARD McDONALD</u> PRINT NAME: <u>WARD McDONALD</u> COMPANY: <u>HART CROWSER</u>						RECEIVED BY: <u>[Signature]</u> SIGNATURE: <u>SHONG KRATZ</u> PRINT NAME: <u>SHONG KRATZ</u> COMPANY: <u>TEST AMERICA</u>			
RELINQUISHED BY: <u>[Signature]</u> SIGNATURE: <u>WARD McDONALD</u> PRINT NAME: <u>WARD McDONALD</u> COMPANY: <u>HART CROWSER</u>						RECEIVED BY: <u>[Signature]</u> SIGNATURE: <u>SHONG KRATZ</u> PRINT NAME: <u>SHONG KRATZ</u> COMPANY: <u>TEST AMERICA</u>			
SPECIAL SHIPMENT HANDLING OR STORAGE REQUIREMENTS: 3.9C IRCOY FE ND M SAMPLES NOT MARKED FOR ANALYSIS TO BE ON HOLD						TOTAL NUMBER OF CONTAINERS: _____ 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			
COOLER NO.: _____ STORAGE LOCATION: _____ TURNAROUND TIME: <input type="checkbox"/> 24 HOURS <input type="checkbox"/> 1 WEEK <input type="checkbox"/> 48 HOURS <input type="checkbox"/> STANDARD <input type="checkbox"/> 72 HOURS <input type="checkbox"/> OTHER						See Lab Work Order No. _____ for Other Contract Requirements			



Sample Custody Record

Samples Shipped to: Test America



HARTCROWSER

PAGE 2 OF 4

Hart Crowser, Inc.
3131 Elliott Avenue, Suite 600
Seattle, Washington 98121
Office: 206.324.9530 • Fax 206.328.5581

JOB <u>150014001</u> LAB NUMBER		REQUESTED ANALYSIS				NO. OF CONTAINERS	OBSERVATIONS/COMMENTS/ COMPOSITING INSTRUCTIONS
PROJECT NAME <u>CVSD</u>	HART CROWSER CONTACT <u>Ward McDonald</u>	DESCRIPTION	DATE	TIME	MATRIX		
SAMPLED BY: <u>Keylin Huddleston / Ward McDonald</u>							
LAB NO.	SAMPLE ID	DESCRIPTION	DATE	TIME	MATRIX		
	TP-50-6		11/8/18	12:51	Soil	X	
	TP-50-12			12:50		X	
	TP-51-6			13:50		X	
	TP-51-12			13:51		X	
	TP-52-6			13:40		X	
	TP-52-12			13:41		X	
	TP-53-6			14:55		X	
	TP-53-12			14:56		X	
	TP-54-6			14:15		X	
	TP-54-12			14:16		X	
	TP-55-6			14:20		X	
	TP-55-12			14:21		X	
RELINQUISHED BY		DATE	RECEIVED BY	DATE	SPECIAL SHIPMENT HANDLING OR STORAGE REQUIREMENTS:		
SIGNATURE <u>[Signature]</u>		11/8/18	SIGNATURE <u>[Signature]</u>	11/6/16	3.9C IR004		
PRINT NAME <u>Ward Crowser</u>		TIME	PRINT NAME <u>Shawn [Signature]</u>	TIME	SAMPLES NOT MARKED FOR ANALYSIS TO BE UNTOUCHED		
COMPANY <u>HART CROWSER</u>		1620	COMPANY <u>TA GPO</u>	1620	COOLER NO.: STORAGE LOCATION:		
RECEIVED BY		DATE	RECEIVED BY	DATE	TURNAROUND TIME:		
SIGNATURE		TIME	SIGNATURE	TIME	<input type="checkbox"/> 24 HOURS <input type="checkbox"/> 1 WEEK		
PRINT NAME			PRINT NAME		<input type="checkbox"/> 48 HOURS <input type="checkbox"/> STANDARD		
COMPANY			COMPANY		<input type="checkbox"/> 72 HOURS <input type="checkbox"/> OTHER		
RELINQUISHED BY		DATE	RECEIVED BY	DATE	TOTAL NUMBER OF CONTAINERS		
SIGNATURE			SIGNATURE		SAMPLE RECEIPT INFORMATION		
PRINT NAME			PRINT NAME		CUSTODY SEALS: <input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A		
COMPANY			COMPANY		GOOD CONDITION <input type="checkbox"/> YES <input type="checkbox"/> NO		
RECEIVED BY		DATE	RECEIVED BY	DATE	TEMPERATURE		
SIGNATURE			SIGNATURE		SHIPMENT METHOD: <input type="checkbox"/> HAND <input type="checkbox"/> OVERNIGHT		
PRINT NAME			PRINT NAME		TURNAROUND TIME:		
COMPANY			COMPANY		See Lab Work Order No. for Other Contract Requirements		

White to Lab Yellow to Project Manager Pink to Sample Custodian

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Sample Custody Record

Samples Shipped to: Test America

HART CROWSER
Page 3 of 4

Hart Crowser, Inc.
3131 Elliott Avenue, Suite 600
Seattle, Washington 98121
Office: 206.324.9530 • Fax 206.328.5581

JOB <u>150014001</u> LAB NUMBER _____ PROJECT NAME <u>CVSD</u> HART CROWSER CONTACT <u>Ward McDonald</u>		OBSERVATIONS/COMMENTS/ COMPOSITING INSTRUCTIONS	
SAMPLED BY: <u>Keylin Huddleston/Ward McDonald</u>		NO. OF CONTAINERS _____	
REQUESTED ANALYSIS _____		SPECIAL SHIPMENT HANDLING OR STORAGE REQUIREMENTS: <u>SAMPLES WERE ANALYSIS ISNT CHECKED ARE TO BE ON HOLD</u>	
TOTAL NUMBER OF CONTAINERS _____		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"/> OVERNIGHT <input type="checkbox"/> COURIER	
COOLER NO.: _____ STORAGE LOCATION: _____		TURNAROUND TIME: <input type="checkbox"/> 24 HOURS <input type="checkbox"/> 1 WEEK <input type="checkbox"/> 48 HOURS <input type="checkbox"/> STANDARD <input type="checkbox"/> 72 HOURS <input type="checkbox"/> OTHER _____	
See Lab Work Order No. _____ for Other Contract Requirements			

LAB NO.	SAMPLE ID	DESCRIPTION	DATE	TIME	MATRIX	RECEIVED BY	DATE	TIME	RECEIVED BY	DATE	TIME
	TP-44-6		11/8/18	11:56	Soil	<u>Shoula Krotz</u>	11/6/18		<u>Shoula Krotz</u>	11/6/18	
	TP-44-12			11:55		<u>Shoula Krotz</u>			<u>Shoula Krotz</u>		
	TP-45-6			12:20		<u>Shoula Krotz</u>			<u>Shoula Krotz</u>		
	TP-45-12			12:21		<u>Shoula Krotz</u>			<u>Shoula Krotz</u>		
	TP-46-6			12:00		<u>Shoula Krotz</u>			<u>Shoula Krotz</u>		
	TP-46-12			12:01		<u>Shoula Krotz</u>			<u>Shoula Krotz</u>		
	TP-47-6			11:45		<u>Shoula Krotz</u>			<u>Shoula Krotz</u>		
	TP-47-12			11:46		<u>Shoula Krotz</u>			<u>Shoula Krotz</u>		
	TP-48-6			12:01		<u>Shoula Krotz</u>			<u>Shoula Krotz</u>		
	TP-48-12			12:00		<u>Shoula Krotz</u>			<u>Shoula Krotz</u>		
	TP-49-6			12:41		<u>Shoula Krotz</u>			<u>Shoula Krotz</u>		
	TP-49-12			12:40		<u>Shoula Krotz</u>			<u>Shoula Krotz</u>		

RELINQUISHED BY	DATE	RECEIVED BY	DATE
<u>Shoula Krotz</u>	11/8/18	<u>Shoula Krotz</u>	11/6/18
<u>Shoula Krotz</u>		<u>Shoula Krotz</u>	
<u>Shoula Krotz</u>		<u>Shoula Krotz</u>	
<u>Shoula Krotz</u>		<u>Shoula Krotz</u>	
<u>Shoula Krotz</u>		<u>Shoula Krotz</u>	
<u>Shoula Krotz</u>		<u>Shoula Krotz</u>	
<u>Shoula Krotz</u>		<u>Shoula Krotz</u>	
<u>Shoula Krotz</u>		<u>Shoula Krotz</u>	
<u>Shoula Krotz</u>		<u>Shoula Krotz</u>	
<u>Shoula Krotz</u>		<u>Shoula Krotz</u>	
<u>Shoula Krotz</u>		<u>Shoula Krotz</u>	

White to Lab Yellow to Project Manager Pink to Sample Custodian

Login Sample Receipt Checklist

Client: Hart Crowser, Inc.

Job Number: 590-9901-3

Login Number: 9901

List Source: TestAmerica Spokane

List Number: 1

Creator: Northrup, Trinitie L

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	
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.	True	
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

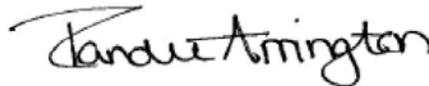
ANALYTICAL REPORT

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

TestAmerica Job ID: 590-9901-5
Client Project/Site: CVSD/15014001

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

Attn: John Haney



Authorized for release by:
11/28/2018 9:00:59 AM

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

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results through
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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.

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Method Summary	18
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Case Narrative

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014001

TestAmerica Job ID: 590-9901-5

Job ID: 590-9901-5

Laboratory: TestAmerica Spokane

Narrative

Receipt

The samples were received on 11/8/2018 4:20 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.9° C.

Receipt Exceptions

The following samples were activated for 8270D SIM PAHs and 6010C Lead by the client on 11/16/18: TP-56-12 (590-9901-2) and TP-60-12 (590-9901-10).

The following samples were activated for 8270D SIM PAHs by the client on 11/16/18: TP-57-12 (590-9901-4), TP-51-12 (590-9901-16), TP-54-12 (590-9901-22), TP-55-12 (590-9901-24) and TP-45-12 (590-9901-28).

The following samples were activated for 6010C Lead by the client on 11/16/18: TP-46-12 (590-9901-30) and TP-48-12 (590-9901-34).

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

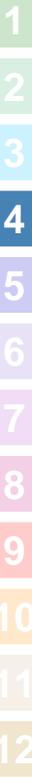
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Sample Summary

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014001

TestAmerica Job ID: 590-9901-5

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
590-9901-2	TP-56-12	Solid	11/08/18 14:31	11/08/18 16:20
590-9901-4	TP-57-12	Solid	11/08/18 11:05	11/08/18 16:20
590-9901-10	TP-60-12	Solid	11/08/18 10:31	11/08/18 16:20
590-9901-16	TP-51-12	Solid	11/08/18 13:51	11/08/18 16:20
590-9901-22	TP-54-12	Solid	11/08/18 14:16	11/08/18 16:20
590-9901-24	TP-55-12	Solid	11/08/18 14:21	11/08/18 16:20
590-9901-28	TP-45-12	Solid	11/08/18 12:21	11/08/18 16:20
590-9901-30	TP-46-12	Solid	11/08/18 12:01	11/08/18 16:20
590-9901-34	TP-48-12	Solid	11/08/18 12:00	11/08/18 16:20



Definitions/Glossary

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014001

TestAmerica Job ID: 590-9901-5

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: CVSD/15014001

TestAmerica Job ID: 590-9901-5

Client Sample ID: TP-56-12

Date Collected: 11/08/18 14:31

Date Received: 11/08/18 16:20

Lab Sample ID: 590-9901-2

Matrix: Solid

Percent Solids: 92.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		1000		ug/Kg	☼	11/19/18 11:32	11/20/18 12:29	100
2-Methylnaphthalene	ND		1000		ug/Kg	☼	11/19/18 11:32	11/20/18 12:29	100
1-Methylnaphthalene	ND		1000		ug/Kg	☼	11/19/18 11:32	11/20/18 12:29	100
Acenaphthylene	ND		1000		ug/Kg	☼	11/19/18 11:32	11/20/18 12:29	100
Acenaphthene	1300		1000		ug/Kg	☼	11/19/18 11:32	11/20/18 12:29	100
Fluorene	ND		1000		ug/Kg	☼	11/19/18 11:32	11/20/18 12:29	100
Phenanthrene	5900		1000		ug/Kg	☼	11/19/18 11:32	11/20/18 12:29	100
Anthracene	1600		1000		ug/Kg	☼	11/19/18 11:32	11/20/18 12:29	100
Fluoranthene	13000		1000		ug/Kg	☼	11/19/18 11:32	11/20/18 12:29	100
Pyrene	19000		1000		ug/Kg	☼	11/19/18 11:32	11/20/18 12:29	100
Benzo[a]anthracene	11000		1000		ug/Kg	☼	11/19/18 11:32	11/20/18 12:29	100
Chrysene	14000		1000		ug/Kg	☼	11/19/18 11:32	11/20/18 12:29	100
Benzo[b]fluoranthene	16000		1000		ug/Kg	☼	11/19/18 11:32	11/20/18 12:29	100
Benzo[k]fluoranthene	6700		1000		ug/Kg	☼	11/19/18 11:32	11/20/18 12:29	100
Benzo[a]pyrene	15000		1000		ug/Kg	☼	11/19/18 11:32	11/20/18 12:29	100
Indeno[1,2,3-cd]pyrene	7400		1000		ug/Kg	☼	11/19/18 11:32	11/20/18 12:29	100
Dibenz(a,h)anthracene	2600		1000		ug/Kg	☼	11/19/18 11:32	11/20/18 12:29	100
Benzo[g,h,i]perylene	9100		1000		ug/Kg	☼	11/19/18 11:32	11/20/18 12:29	100

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	52		23 - 120	11/19/18 11:32	11/20/18 12:29	100
2-Fluorobiphenyl (Surr)	71		38 - 123	11/19/18 11:32	11/20/18 12:29	100
p-Terphenyl-d14	86		68 - 136	11/19/18 11:32	11/20/18 12:29	100

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	730		2.1		mg/Kg	☼	11/26/18 13:06	11/27/18 12:45	1

Client Sample ID: TP-57-12

Date Collected: 11/08/18 11:05

Date Received: 11/08/18 16:20

Lab Sample ID: 590-9901-4

Matrix: Solid

Percent Solids: 94.3

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	☼	11/19/18 11:32	11/20/18 12:53	1
2-Methylnaphthalene	ND		10		ug/Kg	☼	11/19/18 11:32	11/20/18 12:53	1
1-Methylnaphthalene	ND		10		ug/Kg	☼	11/19/18 11:32	11/20/18 12:53	1
Acenaphthylene	ND		10		ug/Kg	☼	11/19/18 11:32	11/20/18 12:53	1
Acenaphthene	ND		10		ug/Kg	☼	11/19/18 11:32	11/20/18 12:53	1
Fluorene	ND		10		ug/Kg	☼	11/19/18 11:32	11/20/18 12:53	1
Phenanthrene	ND		10		ug/Kg	☼	11/19/18 11:32	11/20/18 12:53	1
Anthracene	ND		10		ug/Kg	☼	11/19/18 11:32	11/20/18 12:53	1
Fluoranthene	ND		10		ug/Kg	☼	11/19/18 11:32	11/20/18 12:53	1
Pyrene	ND		10		ug/Kg	☼	11/19/18 11:32	11/20/18 12:53	1
Benzo[a]anthracene	ND		10		ug/Kg	☼	11/19/18 11:32	11/20/18 12:53	1
Chrysene	ND		10		ug/Kg	☼	11/19/18 11:32	11/20/18 12:53	1
Benzo[b]fluoranthene	ND		10		ug/Kg	☼	11/19/18 11:32	11/20/18 12:53	1
Benzo[k]fluoranthene	ND		10		ug/Kg	☼	11/19/18 11:32	11/20/18 12:53	1
Benzo[a]pyrene	ND		10		ug/Kg	☼	11/19/18 11:32	11/20/18 12:53	1
Indeno[1,2,3-cd]pyrene	ND		10		ug/Kg	☼	11/19/18 11:32	11/20/18 12:53	1

TestAmerica Spokane

Client Sample Results

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014001

TestAmerica Job ID: 590-9901-5

Client Sample ID: TP-57-12

Date Collected: 11/08/18 11:05

Date Received: 11/08/18 16:20

Lab Sample ID: 590-9901-4

Matrix: Solid

Percent Solids: 94.3

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	ND		10		ug/Kg	☼	11/19/18 11:32	11/20/18 12:53	1
Benzo[g,h,i]perylene	ND		10		ug/Kg	☼	11/19/18 11:32	11/20/18 12:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	67		23 - 120				11/19/18 11:32	11/20/18 12:53	1
2-Fluorobiphenyl (Surr)	80		38 - 123				11/19/18 11:32	11/20/18 12:53	1
p-Terphenyl-d14	89		68 - 136				11/19/18 11:32	11/20/18 12:53	1

Client Sample ID: TP-60-12

Date Collected: 11/08/18 10:31

Date Received: 11/08/18 16:20

Lab Sample ID: 590-9901-10

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		11		ug/Kg	☼	11/19/18 11:32	11/20/18 13:18	1
2-Methylnaphthalene	ND		11		ug/Kg	☼	11/19/18 11:32	11/20/18 13:18	1
1-Methylnaphthalene	ND		11		ug/Kg	☼	11/19/18 11:32	11/20/18 13:18	1
Acenaphthylene	ND		11		ug/Kg	☼	11/19/18 11:32	11/20/18 13:18	1
Acenaphthene	ND		11		ug/Kg	☼	11/19/18 11:32	11/20/18 13:18	1
Fluorene	ND		11		ug/Kg	☼	11/19/18 11:32	11/20/18 13:18	1
Phenanthrene	ND		11		ug/Kg	☼	11/19/18 11:32	11/20/18 13:18	1
Anthracene	ND		11		ug/Kg	☼	11/19/18 11:32	11/20/18 13:18	1
Fluoranthene	22		11		ug/Kg	☼	11/19/18 11:32	11/20/18 13:18	1
Pyrene	32		11		ug/Kg	☼	11/19/18 11:32	11/20/18 13:18	1
Benzo[a]anthracene	19		11		ug/Kg	☼	11/19/18 11:32	11/20/18 13:18	1
Chrysene	27		11		ug/Kg	☼	11/19/18 11:32	11/20/18 13:18	1
Benzo[b]fluoranthene	31		11		ug/Kg	☼	11/19/18 11:32	11/20/18 13:18	1
Benzo[k]fluoranthene	13		11		ug/Kg	☼	11/19/18 11:32	11/20/18 13:18	1
Benzo[a]pyrene	28		11		ug/Kg	☼	11/19/18 11:32	11/20/18 13:18	1
Indeno[1,2,3-cd]pyrene	18		11		ug/Kg	☼	11/19/18 11:32	11/20/18 13:18	1
Dibenz(a,h)anthracene	ND		11		ug/Kg	☼	11/19/18 11:32	11/20/18 13:18	1
Benzo[g,h,i]perylene	22		11		ug/Kg	☼	11/19/18 11:32	11/20/18 13:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	65		23 - 120				11/19/18 11:32	11/20/18 13:18	1
2-Fluorobiphenyl (Surr)	74		38 - 123				11/19/18 11:32	11/20/18 13:18	1
p-Terphenyl-d14	85		68 - 136				11/19/18 11:32	11/20/18 13:18	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	19		2.5		mg/Kg	☼	11/26/18 13:06	11/27/18 12:48	1

Client Sample ID: TP-51-12

Date Collected: 11/08/18 13:51

Date Received: 11/08/18 16:20

Lab Sample ID: 590-9901-16

Matrix: Solid

Percent Solids: 89.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		11		ug/Kg	☼	11/19/18 11:32	11/20/18 13:43	1
2-Methylnaphthalene	ND		11		ug/Kg	☼	11/19/18 11:32	11/20/18 13:43	1
1-Methylnaphthalene	ND		11		ug/Kg	☼	11/19/18 11:32	11/20/18 13:43	1

TestAmerica Spokane

Client Sample Results

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014001

TestAmerica Job ID: 590-9901-5

Client Sample ID: TP-51-12

Lab Sample ID: 590-9901-16

Date Collected: 11/08/18 13:51

Matrix: Solid

Date Received: 11/08/18 16:20

Percent Solids: 89.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthylene	ND		11		ug/Kg	☼	11/19/18 11:32	11/20/18 13:43	1
Acenaphthene	17		11		ug/Kg	☼	11/19/18 11:32	11/20/18 13:43	1
Fluorene	ND		11		ug/Kg	☼	11/19/18 11:32	11/20/18 13:43	1
Phenanthrene	53		11		ug/Kg	☼	11/19/18 11:32	11/20/18 13:43	1
Anthracene	12		11		ug/Kg	☼	11/19/18 11:32	11/20/18 13:43	1
Fluoranthene	160		11		ug/Kg	☼	11/19/18 11:32	11/20/18 13:43	1
Pyrene	190		11		ug/Kg	☼	11/19/18 11:32	11/20/18 13:43	1
Benzo[a]anthracene	150		11		ug/Kg	☼	11/19/18 11:32	11/20/18 13:43	1
Chrysene	190		11		ug/Kg	☼	11/19/18 11:32	11/20/18 13:43	1
Benzo[b]fluoranthene	230		11		ug/Kg	☼	11/19/18 11:32	11/20/18 13:43	1
Benzo[k]fluoranthene	100		11		ug/Kg	☼	11/19/18 11:32	11/20/18 13:43	1
Benzo[a]pyrene	220		11		ug/Kg	☼	11/19/18 11:32	11/20/18 13:43	1
Indeno[1,2,3-cd]pyrene	130		11		ug/Kg	☼	11/19/18 11:32	11/20/18 13:43	1
Dibenz(a,h)anthracene	47		11		ug/Kg	☼	11/19/18 11:32	11/20/18 13:43	1
Benzo[g,h,i]perylene	160		11		ug/Kg	☼	11/19/18 11:32	11/20/18 13:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	62		23 - 120	11/19/18 11:32	11/20/18 13:43	1
2-Fluorobiphenyl (Surr)	77		38 - 123	11/19/18 11:32	11/20/18 13:43	1
p-Terphenyl-d14	88		68 - 136	11/19/18 11:32	11/20/18 13:43	1

Client Sample ID: TP-54-12

Lab Sample ID: 590-9901-22

Date Collected: 11/08/18 14:16

Matrix: Solid

Date Received: 11/08/18 16:20

Percent Solids: 87.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	17		11		ug/Kg	☼	11/19/18 11:32	11/20/18 14:07	1
2-Methylnaphthalene	17		11		ug/Kg	☼	11/19/18 11:32	11/20/18 14:07	1
1-Methylnaphthalene	14		11		ug/Kg	☼	11/19/18 11:32	11/20/18 14:07	1
Acenaphthylene	ND		11		ug/Kg	☼	11/19/18 11:32	11/20/18 14:07	1
Acenaphthene	97		11		ug/Kg	☼	11/19/18 11:32	11/20/18 14:07	1
Fluorene	37		11		ug/Kg	☼	11/19/18 11:32	11/20/18 14:07	1
Phenanthrene	650		11		ug/Kg	☼	11/19/18 11:32	11/20/18 14:07	1
Anthracene	150		11		ug/Kg	☼	11/19/18 11:32	11/20/18 14:07	1
Fluoranthene	1100		11		ug/Kg	☼	11/19/18 11:32	11/20/18 14:07	1
Pyrene	1600		11		ug/Kg	☼	11/19/18 11:32	11/20/18 14:07	1
Benzo[a]anthracene	950		11		ug/Kg	☼	11/19/18 11:32	11/20/18 14:07	1
Chrysene	1400		11		ug/Kg	☼	11/19/18 11:32	11/20/18 14:07	1
Benzo[b]fluoranthene	1400		11		ug/Kg	☼	11/19/18 11:32	11/20/18 14:07	1
Benzo[k]fluoranthene	520		11		ug/Kg	☼	11/19/18 11:32	11/20/18 14:07	1
Benzo[a]pyrene	1200		11		ug/Kg	☼	11/19/18 11:32	11/20/18 14:07	1
Indeno[1,2,3-cd]pyrene	720		11		ug/Kg	☼	11/19/18 11:32	11/20/18 14:07	1
Dibenz(a,h)anthracene	250		11		ug/Kg	☼	11/19/18 11:32	11/20/18 14:07	1
Benzo[g,h,i]perylene	880		11		ug/Kg	☼	11/19/18 11:32	11/20/18 14:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	72		23 - 120	11/19/18 11:32	11/20/18 14:07	1
2-Fluorobiphenyl (Surr)	88		38 - 123	11/19/18 11:32	11/20/18 14:07	1
p-Terphenyl-d14	90		68 - 136	11/19/18 11:32	11/20/18 14:07	1

TestAmerica Spokane

Client Sample Results

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014001

TestAmerica Job ID: 590-9901-5

Client Sample ID: TP-55-12

Lab Sample ID: 590-9901-24

Date Collected: 11/08/18 14:21

Matrix: Solid

Date Received: 11/08/18 16:20

Percent Solids: 85.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	16		11		ug/Kg	☼	11/19/18 11:32	11/20/18 14:32	1
2-Methylnaphthalene	11		11		ug/Kg	☼	11/19/18 11:32	11/20/18 14:32	1
1-Methylnaphthalene	ND		11		ug/Kg	☼	11/19/18 11:32	11/20/18 14:32	1
Acenaphthylene	ND		11		ug/Kg	☼	11/19/18 11:32	11/20/18 14:32	1
Acenaphthene	110		11		ug/Kg	☼	11/19/18 11:32	11/20/18 14:32	1
Fluorene	28		11		ug/Kg	☼	11/19/18 11:32	11/20/18 14:32	1
Phenanthrene	580		11		ug/Kg	☼	11/19/18 11:32	11/20/18 14:32	1
Anthracene	140		11		ug/Kg	☼	11/19/18 11:32	11/20/18 14:32	1
Fluoranthene	1500		11		ug/Kg	☼	11/19/18 11:32	11/20/18 14:32	1
Pyrene	2000		11		ug/Kg	☼	11/19/18 11:32	11/20/18 14:32	1
Benzo[a]anthracene	1200		11		ug/Kg	☼	11/19/18 11:32	11/20/18 14:32	1
Chrysene	1500		11		ug/Kg	☼	11/19/18 11:32	11/20/18 14:32	1
Benzo[b]fluoranthene	1700		11		ug/Kg	☼	11/19/18 11:32	11/20/18 14:32	1
Benzo[k]fluoranthene	700		11		ug/Kg	☼	11/19/18 11:32	11/20/18 14:32	1
Benzo[a]pyrene	1600		11		ug/Kg	☼	11/19/18 11:32	11/20/18 14:32	1
Indeno[1,2,3-cd]pyrene	870		11		ug/Kg	☼	11/19/18 11:32	11/20/18 14:32	1
Dibenz(a,h)anthracene	280		11		ug/Kg	☼	11/19/18 11:32	11/20/18 14:32	1
Benzo[g,h,i]perylene	1000		11		ug/Kg	☼	11/19/18 11:32	11/20/18 14:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	68		23 - 120	11/19/18 11:32	11/20/18 14:32	1
2-Fluorobiphenyl (Surr)	82		38 - 123	11/19/18 11:32	11/20/18 14:32	1
p-Terphenyl-d14	82		68 - 136	11/19/18 11:32	11/20/18 14:32	1

Client Sample ID: TP-45-12

Lab Sample ID: 590-9901-28

Date Collected: 11/08/18 12:21

Matrix: Solid

Date Received: 11/08/18 16:20

Percent Solids: 92.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		11		ug/Kg	☼	11/19/18 11:32	11/20/18 14:57	1
2-Methylnaphthalene	ND		11		ug/Kg	☼	11/19/18 11:32	11/20/18 14:57	1
1-Methylnaphthalene	ND		11		ug/Kg	☼	11/19/18 11:32	11/20/18 14:57	1
Acenaphthylene	ND		11		ug/Kg	☼	11/19/18 11:32	11/20/18 14:57	1
Acenaphthene	ND		11		ug/Kg	☼	11/19/18 11:32	11/20/18 14:57	1
Fluorene	ND		11		ug/Kg	☼	11/19/18 11:32	11/20/18 14:57	1
Phenanthrene	ND		11		ug/Kg	☼	11/19/18 11:32	11/20/18 14:57	1
Anthracene	ND		11		ug/Kg	☼	11/19/18 11:32	11/20/18 14:57	1
Fluoranthene	28		11		ug/Kg	☼	11/19/18 11:32	11/20/18 14:57	1
Pyrene	38		11		ug/Kg	☼	11/19/18 11:32	11/20/18 14:57	1
Benzo[a]anthracene	23		11		ug/Kg	☼	11/19/18 11:32	11/20/18 14:57	1
Chrysene	31		11		ug/Kg	☼	11/19/18 11:32	11/20/18 14:57	1
Benzo[b]fluoranthene	38		11		ug/Kg	☼	11/19/18 11:32	11/20/18 14:57	1
Benzo[k]fluoranthene	15		11		ug/Kg	☼	11/19/18 11:32	11/20/18 14:57	1
Benzo[a]pyrene	33		11		ug/Kg	☼	11/19/18 11:32	11/20/18 14:57	1
Indeno[1,2,3-cd]pyrene	21		11		ug/Kg	☼	11/19/18 11:32	11/20/18 14:57	1
Dibenz(a,h)anthracene	ND		11		ug/Kg	☼	11/19/18 11:32	11/20/18 14:57	1
Benzo[g,h,i]perylene	25		11		ug/Kg	☼	11/19/18 11:32	11/20/18 14:57	1

TestAmerica Spokane

Client Sample Results

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014001

TestAmerica Job ID: 590-9901-5

Client Sample ID: TP-45-12

Date Collected: 11/08/18 12:21

Date Received: 11/08/18 16:20

Lab Sample ID: 590-9901-28

Matrix: Solid

Percent Solids: 92.7

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	69		23 - 120	11/19/18 11:32	11/20/18 14:57	1
2-Fluorobiphenyl (Surr)	79		38 - 123	11/19/18 11:32	11/20/18 14:57	1
p-Terphenyl-d14	90		68 - 136	11/19/18 11:32	11/20/18 14:57	1

Client Sample ID: TP-46-12

Date Collected: 11/08/18 12:01

Date Received: 11/08/18 16:20

Lab Sample ID: 590-9901-30

Matrix: Solid

Percent Solids: 90.0

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	1600		2.6		mg/Kg	☼	11/26/18 13:06	11/27/18 12:52	1

Client Sample ID: TP-48-12

Date Collected: 11/08/18 12:00

Date Received: 11/08/18 16:20

Lab Sample ID: 590-9901-34

Matrix: Solid

Percent Solids: 89.8

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	14		2.5		mg/Kg	☼	11/26/18 13:06	11/27/18 13:05	1

QC Sample Results

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014001

TestAmerica Job ID: 590-9901-5

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

Lab Sample ID: MB 590-19954/1-A
Matrix: Solid
Analysis Batch: 19955

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 19954

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		10		ug/Kg		11/19/18 11:32	11/19/18 15:45	1
2-Methylnaphthalene	ND		10		ug/Kg		11/19/18 11:32	11/19/18 15:45	1
1-Methylnaphthalene	ND		10		ug/Kg		11/19/18 11:32	11/19/18 15:45	1
Acenaphthylene	ND		10		ug/Kg		11/19/18 11:32	11/19/18 15:45	1
Acenaphthene	ND		10		ug/Kg		11/19/18 11:32	11/19/18 15:45	1
Fluorene	ND		10		ug/Kg		11/19/18 11:32	11/19/18 15:45	1
Phenanthrene	ND		10		ug/Kg		11/19/18 11:32	11/19/18 15:45	1
Anthracene	ND		10		ug/Kg		11/19/18 11:32	11/19/18 15:45	1
Fluoranthene	ND		10		ug/Kg		11/19/18 11:32	11/19/18 15:45	1
Pyrene	ND		10		ug/Kg		11/19/18 11:32	11/19/18 15:45	1
Benzo[a]anthracene	ND		10		ug/Kg		11/19/18 11:32	11/19/18 15:45	1
Chrysene	ND		10		ug/Kg		11/19/18 11:32	11/19/18 15:45	1
Benzo[b]fluoranthene	ND		10		ug/Kg		11/19/18 11:32	11/19/18 15:45	1
Benzo[k]fluoranthene	ND		10		ug/Kg		11/19/18 11:32	11/19/18 15:45	1
Benzo[a]pyrene	ND		10		ug/Kg		11/19/18 11:32	11/19/18 15:45	1
Indeno[1,2,3-cd]pyrene	ND		10		ug/Kg		11/19/18 11:32	11/19/18 15:45	1
Dibenz(a,h)anthracene	ND		10		ug/Kg		11/19/18 11:32	11/19/18 15:45	1
Benzo[g,h,i]perylene	ND		10		ug/Kg		11/19/18 11:32	11/19/18 15:45	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	79		23 - 120	11/19/18 11:32	11/19/18 15:45	1
2-Fluorobiphenyl (Surr)	88		38 - 123	11/19/18 11:32	11/19/18 15:45	1
p-Terphenyl-d14	106		68 - 136	11/19/18 11:32	11/19/18 15:45	1

Lab Sample ID: LCS 590-19954/2-A
Matrix: Solid
Analysis Batch: 19955

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 19954

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Naphthalene	267	199		ug/Kg		75	41 - 121
2-Methylnaphthalene	267	185		ug/Kg		70	39 - 132
1-Methylnaphthalene	267	203		ug/Kg		76	46 - 131
Acenaphthylene	267	220		ug/Kg		82	56 - 123
Acenaphthene	267	232		ug/Kg		87	43 - 140
Fluorene	267	187		ug/Kg		70	54 - 131
Phenanthrene	267	207		ug/Kg		78	55 - 141
Anthracene	267	257		ug/Kg		96	60 - 129
Fluoranthene	267	211		ug/Kg		79	63 - 141
Pyrene	267	228		ug/Kg		85	62 - 139
Benzo[a]anthracene	267	218		ug/Kg		82	61 - 136
Chrysene	267	227		ug/Kg		85	57 - 144
Benzo[b]fluoranthene	267	213		ug/Kg		80	66 - 141
Benzo[k]fluoranthene	267	218		ug/Kg		82	63 - 150
Benzo[a]pyrene	267	215		ug/Kg		81	60 - 133
Indeno[1,2,3-cd]pyrene	267	208		ug/Kg		78	55 - 142
Dibenz(a,h)anthracene	267	213		ug/Kg		80	60 - 150
Benzo[g,h,i]perylene	267	212		ug/Kg		79	58 - 147

TestAmerica Spokane

QC Sample Results

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014001

TestAmerica Job ID: 590-9901-5

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

Lab Sample ID: LCS 590-19954/2-A
Matrix: Solid
Analysis Batch: 19955

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 19954

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Nitrobenzene-d5	79		23 - 120
2-Fluorobiphenyl (Surr)	92		38 - 123
p-Terphenyl-d14	89		68 - 136

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 590-20008/2-A
Matrix: Solid
Analysis Batch: 20030

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 20008

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		3.0		mg/Kg		11/26/18 13:06	11/27/18 12:20	1

Lab Sample ID: LCS 590-20008/1-A
Matrix: Solid
Analysis Batch: 20030

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 20008

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	50.0	50.5		mg/Kg		101	80 - 120

Lab Chronicle

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014001

TestAmerica Job ID: 590-9901-5

Client Sample ID: TP-56-12

Date Collected: 11/08/18 14:31

Date Received: 11/08/18 16:20

Lab Sample ID: 590-9901-2

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			19952	11/19/18 10:58	NMI	TAL SPK

Client Sample ID: TP-56-12

Date Collected: 11/08/18 14:31

Date Received: 11/08/18 16:20

Lab Sample ID: 590-9901-2

Matrix: Solid

Percent Solids: 92.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			15.90 g	2 mL	19954	11/19/18 11:32	NMI	TAL SPK
Total/NA	Analysis	8270D SIM		100			19974	11/20/18 12:29	NMI	TAL SPK
Total/NA	Prep	3050B			1.52 g	50 mL	20008	11/26/18 13:06	JSP	TAL SPK
Total/NA	Analysis	6010C		1			20030	11/27/18 12:45	JSP	TAL SPK

Client Sample ID: TP-57-12

Date Collected: 11/08/18 11:05

Date Received: 11/08/18 16:20

Lab Sample ID: 590-9901-4

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			19952	11/19/18 10:58	NMI	TAL SPK

Client Sample ID: TP-57-12

Date Collected: 11/08/18 11:05

Date Received: 11/08/18 16:20

Lab Sample ID: 590-9901-4

Matrix: Solid

Percent Solids: 94.3

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	19954	11/19/18 11:32	NMI	TAL SPK
Total/NA	Analysis	8270D SIM		1			19974	11/20/18 12:53	NMI	TAL SPK

Client Sample ID: TP-60-12

Date Collected: 11/08/18 10:31

Date Received: 11/08/18 16:20

Lab Sample ID: 590-9901-10

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			19952	11/19/18 10:58	NMI	TAL SPK

Client Sample ID: TP-60-12

Date Collected: 11/08/18 10:31

Date Received: 11/08/18 16:20

Lab Sample ID: 590-9901-10

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			15.41 g	2 mL	19954	11/19/18 11:32	NMI	TAL SPK
Total/NA	Analysis	8270D SIM		1			19974	11/20/18 13:18	NMI	TAL SPK
Total/NA	Prep	3050B			1.28 g	50 mL	20008	11/26/18 13:06	JSP	TAL SPK

TestAmerica Spokane

Lab Chronicle

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014001

TestAmerica Job ID: 590-9901-5

Client Sample ID: TP-60-12

Date Collected: 11/08/18 10:31

Date Received: 11/08/18 16:20

Lab Sample ID: 590-9901-10

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	Analysis	6010C		1			20030	11/27/18 12:48	JSP	TAL SPK

Client Sample ID: TP-51-12

Date Collected: 11/08/18 13:51

Date Received: 11/08/18 16:20

Lab Sample ID: 590-9901-16

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			19952	11/19/18 10:58	NMI	TAL SPK

Client Sample ID: TP-51-12

Date Collected: 11/08/18 13:51

Date Received: 11/08/18 16:20

Lab Sample ID: 590-9901-16

Matrix: Solid

Percent Solids: 89.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			15.42 g	2 mL	19954	11/19/18 11:32	NMI	TAL SPK
Total/NA	Analysis	8270D SIM		1			19974	11/20/18 13:43	NMI	TAL SPK

Client Sample ID: TP-54-12

Date Collected: 11/08/18 14:16

Date Received: 11/08/18 16:20

Lab Sample ID: 590-9901-22

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			19952	11/19/18 10:58	NMI	TAL SPK

Client Sample ID: TP-54-12

Date Collected: 11/08/18 14:16

Date Received: 11/08/18 16:20

Lab Sample ID: 590-9901-22

Matrix: Solid

Percent Solids: 87.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			15.29 g	2 mL	19954	11/19/18 11:32	NMI	TAL SPK
Total/NA	Analysis	8270D SIM		1			19974	11/20/18 14:07	NMI	TAL SPK

Client Sample ID: TP-55-12

Date Collected: 11/08/18 14:21

Date Received: 11/08/18 16:20

Lab Sample ID: 590-9901-24

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			19952	11/19/18 10:58	NMI	TAL SPK

TestAmerica Spokane

Lab Chronicle

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014001

TestAmerica Job ID: 590-9901-5

Client Sample ID: TP-55-12

Lab Sample ID: 590-9901-24

Date Collected: 11/08/18 14:21

Matrix: Solid

Date Received: 11/08/18 16:20

Percent Solids: 85.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			15.59 g	2 mL	19954	11/19/18 11:32	NMI	TAL SPK
Total/NA	Analysis	8270D SIM		1			19974	11/20/18 14:32	NMI	TAL SPK

Client Sample ID: TP-45-12

Lab Sample ID: 590-9901-28

Date Collected: 11/08/18 12:21

Matrix: Solid

Date Received: 11/08/18 16:20

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			19952	11/19/18 10:58	NMI	TAL SPK

Client Sample ID: TP-45-12

Lab Sample ID: 590-9901-28

Date Collected: 11/08/18 12:21

Matrix: Solid

Date Received: 11/08/18 16:20

Percent Solids: 92.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			15.40 g	2 mL	19954	11/19/18 11:32	NMI	TAL SPK
Total/NA	Analysis	8270D SIM		1			19974	11/20/18 14:57	NMI	TAL SPK

Client Sample ID: TP-46-12

Lab Sample ID: 590-9901-30

Date Collected: 11/08/18 12:01

Matrix: Solid

Date Received: 11/08/18 16:20

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			19952	11/19/18 10:58	NMI	TAL SPK

Client Sample ID: TP-46-12

Lab Sample ID: 590-9901-30

Date Collected: 11/08/18 12:01

Matrix: Solid

Date Received: 11/08/18 16:20

Percent Solids: 90.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			1.29 g	50 mL	20008	11/26/18 13:06	JSP	TAL SPK
Total/NA	Analysis	6010C		1			20030	11/27/18 12:52	JSP	TAL SPK

Client Sample ID: TP-48-12

Lab Sample ID: 590-9901-34

Date Collected: 11/08/18 12:00

Matrix: Solid

Date Received: 11/08/18 16:20

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			19952	11/19/18 10:58	NMI	TAL SPK

TestAmerica Spokane

Lab Chronicle

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014001

TestAmerica Job ID: 590-9901-5

Client Sample ID: TP-48-12

Lab Sample ID: 590-9901-34

Date Collected: 11/08/18 12:00

Matrix: Solid

Date Received: 11/08/18 16:20

Percent Solids: 89.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			1.32 g	50 mL	20008	11/26/18 13:06	JSP	TAL SPK
Total/NA	Analysis	6010C		1			20030	11/27/18 13:05	JSP	TAL SPK

Laboratory References:

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

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Accreditation/Certification Summary

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014001

TestAmerica Job ID: 590-9901-5

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 the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

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

- 1
- 2
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Method Summary

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014001

TestAmerica Job ID: 590-9901-5

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



Sample Custody Record

Samples Shipped to: Test America

HART CROWSER PAGE 1 OF 4

Hart Crowser, Inc.
3131 Elliott Avenue, Suite 600
Seattle, Washington 98121
Office: 206.324.9530 • Fax 206.328.5581

JOB <u>150014001</u> LAB NUMBER		PROJECT NAME <u>CVSD</u>		HART CROWSER CONTACT <u>Ward McDonald</u>		SAMPLER BY: <u>Keylin Huddleston/Ward McDonald</u>		REQUESTED ANALYSIS		OBSERVATIONS/COMMENTS/ COMPOSITING INSTRUCTIONS
LAB NO.	SAMPLE ID	DESCRIPTION	DATE	TIME	MATRIX			NO. OF CONTAINERS		
	TP-56-6		11/8/18	14:30	Soil					
	TP-56-12			14:31						
	TP-57-6			11:06						48 HR TURN AROUND (TAT)
	TP-57-12			11:05						48 HR TAT
	TP-58-6			10:20						48 HR TAT
	TP-58-12			10:21						48 HR TAT
	TP-59-6			15:01						48 HR TAT
	TP-59-12			15:02						48 HR TAT
	TP-60-6			10:30						48 HR TAT
	TP-60-12			10:31						48 HR TAT
	TP-61-6			11:05						48 HR TAT
	TP-61-12			11:06						48 HR TAT
 590-9901 Chain of Custody										
RELINQUISHED BY		DATE	RECEIVED BY		DATE	SPECIAL SHIPMENT HANDLING OR STORAGE REQUIREMENTS:		TOTAL NUMBER OF CONTAINERS		
SIGNATURE <u>[Signature]</u>		5/8/18	SIGNATURE <u>[Signature]</u>		11/8/18	3.9C IRCOY NDM		SAMPLE RECEIPT INFORMATION		
PRINT NAME <u>WARD MCDONALD</u>		TIME	PRINT NAME <u>SHONG KRATZ</u>		TIME	SAMPLES NOT MARKED FOR ANALYSIS TO BE ON HOLD		CUSTODY SEALS:		
COMPANY <u>HART CROWSER</u>			COMPANY <u>TA</u>					<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A <input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> NO <input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> YES <input type="checkbox"/> NO		
RELINQUISHED BY		DATE	RECEIVED BY		DATE	COOLER NO.:		SHIPMENT METHOD:		
SIGNATURE			SIGNATURE			STORAGE LOCATION:		<input type="checkbox"/> HAND <input type="checkbox"/> OVERNIGHT <input type="checkbox"/> COURIER		
PRINT NAME			PRINT NAME			See Lab Work Order No.		TURNAROUND TIME:		
COMPANY			COMPANY			for Other Contract Requirements		<input type="checkbox"/> 24 HOURS <input type="checkbox"/> 1 WEEK <input type="checkbox"/> 48 HOURS <input type="checkbox"/> STANDARD <input type="checkbox"/> 72 HOURS <input type="checkbox"/> OTHER		



Sample Custody Record

Samples Shipped to: Test America



HARTCROWSER

PAGE 2 OF 4

Hart Crowser, Inc.
3131 Elliott Avenue, Suite 600
Seattle, Washington 98121
Office: 206.324.9530 • Fax 206.328.5581

JOB <u>150014001</u> LAB NUMBER		REQUESTED ANALYSIS				NO. OF CONTAINERS	OBSERVATIONS/COMMENTS/ COMPOSITING INSTRUCTIONS
PROJECT NAME <u>CVSD</u>	HART CROWSER CONTACT <u>Ward McDonald</u>	DESCRIPTION	DATE	TIME	MATRIX		
SAMPLED BY: <u>Keylin Huddleston / Ward McDonald</u>							
LAB NO.	SAMPLE ID	DESCRIPTION	DATE	TIME	MATRIX		
	TP-50-6		11/8/18	12:51	Soil	X	
	TP-50-12			12:50		X	
	TP-51-6			13:50		X	
	TP-51-12			13:51		X	
	TP-52-6			13:40		X	
	TP-52-12			13:41		X	
	TP-53-6			14:55		X	
	TP-53-12			14:56		X	
	TP-54-6			14:15		X	
	TP-54-12			14:16		X	
	TP-55-6			14:20		X	
	TP-55-12			14:21		X	
RELINQUISHED BY		DATE	RECEIVED BY	DATE	SPECIAL SHIPMENT HANDLING OR STORAGE REQUIREMENTS:		
SIGNATURE <u>[Signature]</u>		11/8/18	SIGNATURE <u>[Signature]</u>	11/6/16	3.9C IR004		
PRINT NAME <u>Ward Crowser</u>		TIME <u>1620</u>	PRINT NAME <u>Shawn [Signature]</u>	TIME <u>1030</u>	SAMPLES NOT MARKED FOR ANALYSIS TO BE UNTOUCHED		
COMPANY <u>HART CROWSER</u>			COMPANY <u>TA GPO</u>		COOLER NO.: STORAGE LOCATION:		
RELINQUISHED BY		DATE	RECEIVED BY	DATE	TURNAROUND TIME:		
SIGNATURE		TIME	SIGNATURE	TIME	<input type="checkbox"/> 24 HOURS <input type="checkbox"/> 1 WEEK		
PRINT NAME			PRINT NAME		<input type="checkbox"/> 48 HOURS <input type="checkbox"/> STANDARD		
COMPANY			COMPANY		<input type="checkbox"/> 72 HOURS <input type="checkbox"/> OTHER		
TOTAL NUMBER OF CONTAINERS		SAMPLE RECEIPT INFORMATION		SHIPMENT METHOD: <input type="checkbox"/> HAND <input type="checkbox"/> OVERNIGHT			
		CUSTODY SEALS: <input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A		TEMPERATURE			
		GOOD CONDITION <input type="checkbox"/> YES <input type="checkbox"/> NO		SHIPMENT METHOD: <input type="checkbox"/> COURIER <input type="checkbox"/> OVERNIGHT			

White to Lab Yellow to Project Manager Pink to Sample Custodian

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Login Sample Receipt Checklist

Client: Hart Crowser, Inc.

Job Number: 590-9901-5

Login Number: 9901

List Source: TestAmerica Spokane

List Number: 1

Creator: Northrup, Trinitie L

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	
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.	True	
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

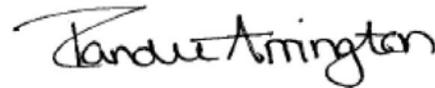
ANALYTICAL REPORT

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

TestAmerica Job ID: 590-9901-6
Client Project/Site: CVSD/15014001

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

Attn: John Haney



Authorized for release by:
1/7/2019 2:37:18 PM

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

LINKS

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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.

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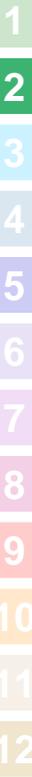


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Case Narrative

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014001

TestAmerica Job ID: 590-9901-6

Job ID: 590-9901-6

Laboratory: TestAmerica Spokane

Narrative

Receipt

The samples were received on 11/8/2018 4:20 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.9° C.

Receipt Exceptions

The following samples were activated for 6010C Lead by the client on 01/02/2019: TP-50-12 (590-9901-14), TP-52-12 (590-9901-18) and TP-53-12 (590-9901-20).

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.

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Sample Summary

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014001

TestAmerica Job ID: 590-9901-6

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
590-9901-14	TP-50-12	Solid	11/08/18 12:50	11/08/18 16:20
590-9901-18	TP-52-12	Solid	11/08/18 13:41	11/08/18 16:20
590-9901-20	TP-53-12	Solid	11/08/18 14:56	11/08/18 16:20

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Definitions/Glossary

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014001

TestAmerica Job ID: 590-9901-6

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: CVSD/15014001

TestAmerica Job ID: 590-9901-6

Client Sample ID: TP-50-12

Date Collected: 11/08/18 12:50

Date Received: 11/08/18 16:20

Lab Sample ID: 590-9901-14

Matrix: Solid

Percent Solids: 87.6

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	1000		2.1		mg/Kg	☼	01/04/19 12:10	01/07/19 10:37	1

Client Sample ID: TP-52-12

Date Collected: 11/08/18 13:41

Date Received: 11/08/18 16:20

Lab Sample ID: 590-9901-18

Matrix: Solid

Percent Solids: 86.8

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	150		2.5		mg/Kg	☼	01/04/19 12:10	01/07/19 10:41	1

Client Sample ID: TP-53-12

Date Collected: 11/08/18 14:56

Date Received: 11/08/18 16:20

Lab Sample ID: 590-9901-20

Matrix: Solid

Percent Solids: 84.3

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	570		5.9		mg/Kg	☼	01/04/19 12:10	01/07/19 10:58	2

QC Sample Results

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014001

TestAmerica Job ID: 590-9901-6

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 590-20477/2-A
Matrix: Solid
Analysis Batch: 20484

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 20477

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		3.0		mg/Kg		01/04/19 12:10	01/07/19 10:13	1

Lab Sample ID: LCS 590-20477/1-A
Matrix: Solid
Analysis Batch: 20484

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 20477

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	50.0	50.7		mg/Kg		101	80 - 120

Lab Chronicle

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014001

TestAmerica Job ID: 590-9901-6

Client Sample ID: TP-50-12

Date Collected: 11/08/18 12:50

Date Received: 11/08/18 16:20

Lab Sample ID: 590-9901-14

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			20480	01/04/19 15:24	JSP	TAL SPK

Client Sample ID: TP-50-12

Date Collected: 11/08/18 12:50

Date Received: 11/08/18 16:20

Lab Sample ID: 590-9901-14

Matrix: Solid

Percent Solids: 87.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			1.65 g	50 mL	20477	01/04/19 12:10	JSP	TAL SPK
Total/NA	Analysis	6010C		1			20484	01/07/19 10:37	JSP	TAL SPK

Client Sample ID: TP-52-12

Date Collected: 11/08/18 13:41

Date Received: 11/08/18 16:20

Lab Sample ID: 590-9901-18

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			20480	01/04/19 15:24	JSP	TAL SPK

Client Sample ID: TP-52-12

Date Collected: 11/08/18 13:41

Date Received: 11/08/18 16:20

Lab Sample ID: 590-9901-18

Matrix: Solid

Percent Solids: 86.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			1.38 g	50 mL	20477	01/04/19 12:10	JSP	TAL SPK
Total/NA	Analysis	6010C		1			20484	01/07/19 10:41	JSP	TAL SPK

Client Sample ID: TP-53-12

Date Collected: 11/08/18 14:56

Date Received: 11/08/18 16:20

Lab Sample ID: 590-9901-20

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			20480	01/04/19 15:24	JSP	TAL SPK

Client Sample ID: TP-53-12

Date Collected: 11/08/18 14:56

Date Received: 11/08/18 16:20

Lab Sample ID: 590-9901-20

Matrix: Solid

Percent Solids: 84.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			1.20 g	50 mL	20477	01/04/19 12:10	JSP	TAL SPK
Total/NA	Analysis	6010C		2			20484	01/07/19 10:58	JSP	TAL SPK

Laboratory References:

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

TestAmerica Spokane

Accreditation/Certification Summary

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014001

TestAmerica Job ID: 590-9901-6

Laboratory: TestAmerica Spokane

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Alaska (UST)	State Program	10	17-025	03-07-19
Nevada	State Program	9	WA012202019-1	07-31-19
Oregon	NELAP	10	4137	12-07-19

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Method Summary

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014001

TestAmerica Job ID: 590-9901-6

Method	Method Description	Protocol	Laboratory
6010C	Metals (ICP)	SW846	TAL SPK
Moisture	Percent Moisture	EPA	TAL SPK
3050B	Preparation, Metals	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

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Sample Custody Record

Samples Shipped to: Test America

HART CROWSER
PAGE 1 OF 4

Hart Crowser, Inc.
3131 Elliott Avenue, Suite 600
Seattle, Washington 98121
Office: 206.324.9530 • Fax 206.328.5581

JOB <u>150014001</u> LAB NUMBER		PROJECT NAME <u>CVSD</u>		HART CROWSER CONTACT <u>Ward McDonald</u>		SAMPLER BY: <u>Keylin Huddleston/Ward McDonald</u>		REQUESTED ANALYSIS		OBSERVATIONS/COMMENTS/ COMPOSITING INSTRUCTIONS	
LAB NO.	SAMPLE ID	DESCRIPTION	DATE	TIME	MATRIX						
	TP-56-6		11/8/18	14:30	Soil	X	X				
	TP-56-12			14:31		X	X				
	TP-57-6			11:06		X	X				48 HR TURN AROUND (TAT)
	TP-57-12			11:05		X	X				48 HR TAT
	TP-58-6			10:20		X	X				48 HR TAT
	TP-58-12			10:21		X	X				48 HR TAT
	TP-59-6			15:01		X	X				48 HR TAT
	TP-59-12			15:02		X	X				48 HR TAT
	TP-60-6			10:30		X	X				48 HR TAT
	TP-60-12			10:31		X	X				48 HR TAT
	TP-61-6			11:05		X	X				48 HR TAT
	TP-61-12			11:06		X	X				48 HR TAT
 590-9901 Chain of Custody											
RELINQUISHED BY: <u>[Signature]</u> SIGNATURE: <u>WARD McDONALD</u> PRINT NAME: <u>WARD McDONALD</u> COMPANY: <u>HART CROWSER</u>						RECEIVED BY: <u>[Signature]</u> SIGNATURE: <u>SHONG KRATZ</u> PRINT NAME: <u>SHONG KRATZ</u> COMPANY: <u>TEST AMERICA</u>					
RELINQUISHED BY: <u>[Signature]</u> SIGNATURE: <u>[Signature]</u> PRINT NAME: <u>[Signature]</u> COMPANY: <u>[Signature]</u>						RECEIVED BY: <u>[Signature]</u> SIGNATURE: <u>[Signature]</u> PRINT NAME: <u>[Signature]</u> COMPANY: <u>[Signature]</u>					
SPECIAL SHIPMENT HANDLING OR STORAGE REQUIREMENTS: <u>3.9C IRCOY</u> <u>NDM</u> <u>SAMPLES NOT MARKED FOR ANALYSIS TO BE ON HOLD</u>						TOTAL NUMBER OF CONTAINERS: _____ 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					
COOLER NO.: _____ STORAGE LOCATION: _____ TURNAROUND TIME: <input type="checkbox"/> 24 HOURS <input type="checkbox"/> 1 WEEK <input type="checkbox"/> 48 HOURS <input type="checkbox"/> STANDARD <input type="checkbox"/> 72 HOURS <input type="checkbox"/> OTHER						See Lab Work Order No. _____ for Other Contract Requirements					



Sample Custody Record

Samples Shipped to: Test America

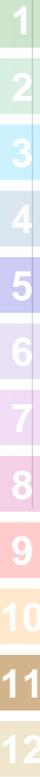


HARTCROWSER

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Hart Crowser, Inc.
3131 Elliott Avenue, Suite 600
Seattle, Washington 98121
Office: 206.324.9530 • Fax 206.328.5581

JOB <u>150014001</u> LAB NUMBER		REQUESTED ANALYSIS				NO. OF CONTAINERS	OBSERVATIONS/COMMENTS/ COMPOSITING INSTRUCTIONS
PROJECT NAME <u>CVSD</u>	HART CROWSER CONTACT <u>Ward McDonald</u>	DESCRIPTION	DATE	TIME	MATRIX		
SAMPLED BY: <u>Keylin Huddleston / Ward McDonald</u>							
LAB NO.	SAMPLE ID	DESCRIPTION	DATE	TIME	MATRIX		
	TP-50-6		11/8/18	12:51	Soil	X	
	TP-50-12			12:50		X	
	TP-51-6			13:50		X	
	TP-51-12			13:51		X	
	TP-52-6			13:40		X	
	TP-52-12			13:41		X	
	TP-53-6			14:55		X	
	TP-53-12			14:56		X	
	TP-54-6			14:15		X	
	TP-54-12			14:16		X	
	TP-55-6			14:20		X	
	TP-55-12			14:21		X	
RELINQUISHED BY		DATE	RECEIVED BY	DATE	SPECIAL SHIPMENT HANDLING OR STORAGE REQUIREMENTS:		
SIGNATURE <u>[Signature]</u>		11/8/18	SIGNATURE <u>[Signature]</u>	11/6/16	3.9C IR004		
PRINT NAME <u>[Name]</u>		TIME	PRINT NAME <u>[Name]</u>	TIME	SAMPLES NOT MARKED FOR ANALYSIS TO BE UNTOUD		
COMPANY <u>[Company]</u>		1620	COMPANY <u>[Company]</u>	1620	COOLER NO.: STORAGE LOCATION:		
RELINQUISHED BY		DATE	RECEIVED BY	DATE	TURNAROUND TIME:		
SIGNATURE		TIME	SIGNATURE	TIME	<input type="checkbox"/> 24 HOURS <input type="checkbox"/> 1 WEEK		
PRINT NAME			PRINT NAME		<input type="checkbox"/> 48 HOURS <input type="checkbox"/> STANDARD		
COMPANY			COMPANY		<input type="checkbox"/> 72 HOURS <input type="checkbox"/> OTHER		
TOTAL NUMBER OF CONTAINERS		SAMPLE RECEIPT INFORMATION		SHIPMENT METHOD: <input type="checkbox"/> HAND <input type="checkbox"/> OVERNIGHT			
		CUSTODY SEALS: <input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A		TEMPERATURE			
		GOOD CONDITION <input type="checkbox"/> YES <input type="checkbox"/> NO		SHIPMENT METHOD: <input type="checkbox"/> HAND <input type="checkbox"/> OVERNIGHT			
		TEMPERATURE		TURNAROUND TIME:			
		SHIPMENT METHOD: <input type="checkbox"/> HAND <input type="checkbox"/> OVERNIGHT		COOLER NO.: STORAGE LOCATION:			
		TURNAROUND TIME:		See Lab Work Order No. _____ for Other Contract Requirements			



Sample Custody Record

Samples Shipped to: Test America

HART CROWSER
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Hart Crowser, Inc.
3131 Elliott Avenue, Suite 600
Seattle, Washington 98121
Office: 206.324.9530 • Fax 206.328.5581

JOB <u>150014001</u> LAB NUMBER _____ PROJECT NAME <u>CVSD</u> HART CROWSER CONTACT <u>Ward McDonald</u>		OBSERVATIONS/COMMENTS/ COMPOSITING INSTRUCTIONS					
SAMPLED BY: <u>Keylin Huddleston/Ward McDonald</u>		NO. OF CONTAINERS _____					
REQUESTED ANALYSIS		SPECIAL SHIPMENT HANDLING OR STORAGE REQUIREMENTS: <u>SAMPLES W/HERE ANALYSIS ISNT CHECKED ARE TO BE ON HOLD</u>					
LAB NO.	SAMPLE ID	DESCRIPTION	DATE	TIME	MATRIX	X	TOTAL NUMBER OF CONTAINERS
	TP-44-6		11/8/18	11:56	Soil	X	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
	TP-44-12			11:55		X	TURNAROUND TIME: <input type="checkbox"/> 24 HOURS <input type="checkbox"/> 1 WEEK <input type="checkbox"/> 48 HOURS <input type="checkbox"/> STANDARD <input type="checkbox"/> 72 HOURS <input type="checkbox"/> OTHER _____
	TP-45-6			12:20		X	
	TP-45-12			12:21		X	
	TP-46-6			12:00		X	
	TP-46-12			12:01		X	
	TP-47-6			11:45		X	
	TP-47-12			11:46		X	
	TP-48-6			12:01		X	
	TP-48-12			12:00		X	
	TP-49-6			12:41		X	
	TP-49-12			12:40		X	
RELINQUISHED BY <u>[Signature]</u> SIGNATURE <u>Ward McDonald</u> PRINT NAME COMPANY	DATE <u>11/8/18</u> TIME <u>1620</u>	RECEIVED BY <u>[Signature]</u> SIGNATURE <u>Shane Krutz</u> PRINT NAME COMPANY	DATE <u>11/6/18</u> TIME <u>1600</u>	RECEIVED BY <u>[Signature]</u> SIGNATURE <u>3.9CJRODY</u> PRINT NAME COMPANY	DATE TIME	STORAGE LOCATION: See Lab Work Order No. _____ for Other Contract Requirements	COOLER NO.: _____ STORAGE LOCATION: _____



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HART CROWSER

Sample Custody Record

Samples Shipped to: Test America

JOB <u>150014001</u> LAB NUMBER		REQUESTED ANALYSIS				NO. OF CONTAINERS		OBSERVATIONS/COMMENTS/ COMPOSITING INSTRUCTIONS	
PROJECT NAME <u>CVSP</u>		SPECIAL SHIPMENT HANDLING OR STORAGE REQUIREMENTS:				TOTAL NUMBER OF CONTAINERS		SAMPLE RECEIPT INFORMATION	
HART CROWSER CONTACT <u>ward McDonald</u>		SPECIAL SHIPMENT HANDLING OR STORAGE REQUIREMENTS:				TOTAL NUMBER OF CONTAINERS		CUSTODY SEALS:	
SAMPLED BY: <u>Keylin Huddleston/Ward McDonald</u>		SPECIAL SHIPMENT HANDLING OR STORAGE REQUIREMENTS:				TOTAL NUMBER OF CONTAINERS		GOOD CONDITION	
LAB NO.	SAMPLE ID	DESCRIPTION	DATE	TIME	MATRIX	NO. OF CONTAINERS	NO. OF CONTAINERS	TEMPERATURE	
	TP-62-6		11/8/18	10:50	Soil	X		SHIPMENT METHOD: <input type="checkbox"/> HAND <input type="checkbox"/> COURIER <input type="checkbox"/> OVERNIGHT	
	TP-62-12		11/8/18	10:51	↓	X	48 HR HOLD TAT	TURNAROUND TIME: <input type="checkbox"/> 24 HOURS <input type="checkbox"/> 1 WEEK <input type="checkbox"/> 48 HOURS <input type="checkbox"/> STANDARD <input type="checkbox"/> 72 HOURS <input type="checkbox"/> OTHER	
	TP-63-6		11/11	11:10	↓	X	48 HR HOLD TAT	COSTUMES NOT MARKED FOR ANALYSIS ARE TO BE ON HOLD	
	TP-63-12		11/11	11:11	↓	X	24 HR HOLD TAT	COOLER NO.: STORAGE LOCATION:	
	TP-64		15:10	15:10	↓	X	24 HR TAT	See Lab Work Order No. for Other Contract Requirements	
	TP-65		15:15	15:15	↓	X			
RELINQUISHED BY: <u>[Signature]</u>		DATE: <u>11/8/18</u>	RECEIVED BY: <u>[Signature]</u>		DATE: <u>11/6/18</u>	SPECIAL SHIPMENT HANDLING OR STORAGE REQUIREMENTS:			
SIGNATURE: <u>[Signature]</u>		TIME: <u>1600</u>	SIGNATURE: <u>[Signature]</u>		TIME: <u>1600</u>	SPECIAL SHIPMENT HANDLING OR STORAGE REQUIREMENTS:			
PRINT NAME: <u>HART CROWSER</u>		COMPANY: <u>HART CROWSER</u>	PRINT NAME: <u>TA of DC</u>		COMPANY: <u>3.95 JROCK</u>	SPECIAL SHIPMENT HANDLING OR STORAGE REQUIREMENTS:			
RELINQUISHED BY: _____		DATE: _____	RECEIVED BY: _____		DATE: _____	SPECIAL SHIPMENT HANDLING OR STORAGE REQUIREMENTS:			
SIGNATURE: _____		TIME: _____	SIGNATURE: _____		TIME: _____	SPECIAL SHIPMENT HANDLING OR STORAGE REQUIREMENTS:			
PRINT NAME: _____		COMPANY: _____	PRINT NAME: _____		COMPANY: _____	SPECIAL SHIPMENT HANDLING OR STORAGE REQUIREMENTS:			

White to Lab Yellow to Project Manager Pink to Sample Custodian

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Login Sample Receipt Checklist

Client: Hart Crowser, Inc.

Job Number: 590-9901-6

Login Number: 9901

List Source: TestAmerica Spokane

List Number: 1

Creator: Northrup, Trinitie L

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	
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.	True	
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

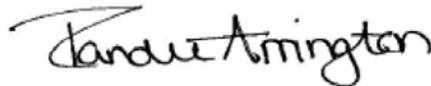
ANALYTICAL REPORT

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

TestAmerica Job ID: 590-9910-1
Client Project/Site: CVSD/15014001

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

Attn: John Haney



Authorized for release by:
11/14/2018 4:02:30 PM

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

LINKS

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results through
TotalAccess

Have a Question?



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

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Case Narrative

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014001

TestAmerica Job ID: 590-9910-1

Job ID: 590-9910-1

Laboratory: TestAmerica Spokane

Narrative

Receipt

The samples were received on 11/12/2018 1:53 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 5.9° C.

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.

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Sample Summary

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014001

TestAmerica Job ID: 590-9910-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
590-9910-1	TP-12EX-N	Solid	11/12/18 12:20	11/12/18 13:53
590-9910-2	TP-12EX-S	Solid	11/12/18 12:25	11/12/18 13:53
590-9910-3	SP-5	Solid	11/12/18 12:35	11/12/18 13:53

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Definitions/Glossary

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014001

TestAmerica Job ID: 590-9910-1

Qualifiers

Metals

Qualifier	Qualifier Description
F2	MS/MSD RPD exceeds control 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: CVSD/15014001

TestAmerica Job ID: 590-9910-1

Client Sample ID: TP-12EX-N

Date Collected: 11/12/18 12:20
Date Received: 11/12/18 13:53

Lab Sample ID: 590-9910-1

Matrix: Solid
Percent Solids: 90.1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	29	F2	2.8		mg/Kg	☼	11/14/18 08:53	11/14/18 14:25	1

Client Sample ID: TP-12EX-S

Date Collected: 11/12/18 12:25
Date Received: 11/12/18 13:53

Lab Sample ID: 590-9910-2

Matrix: Solid
Percent Solids: 87.9

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	27		2.4		mg/Kg	☼	11/14/18 08:53	11/14/18 14:47	1

Client Sample ID: SP-5

Date Collected: 11/12/18 12:35
Date Received: 11/12/18 13:53

Lab Sample ID: 590-9910-3

Matrix: Solid
Percent Solids: 85.8

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	96		2.8		mg/Kg	☼	11/14/18 08:53	11/14/18 14:51	1

QC Sample Results

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014001

TestAmerica Job ID: 590-9910-1

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 590-19897/2-A
Matrix: Solid
Analysis Batch: 19906

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 19897

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		3.0		mg/Kg		11/14/18 08:53	11/14/18 14:22	1

Lab Sample ID: LCS 590-19897/1-A
Matrix: Solid
Analysis Batch: 19906

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 19897

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	50.0	50.7		mg/Kg		101	80 - 120

Lab Sample ID: 590-9910-1 MS
Matrix: Solid
Analysis Batch: 19906

Client Sample ID: TP-12EX-N
Prep Type: Total/NA
Prep Batch: 19897

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	29	F2	54.9	92.8		mg/Kg	☼	115	75 - 125

Lab Sample ID: 590-9910-1 MSD
Matrix: Solid
Analysis Batch: 19906

Client Sample ID: TP-12EX-N
Prep Type: Total/NA
Prep Batch: 19897

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead	29	F2	52.3	73.9	F2	mg/Kg	☼	85	75 - 125	23	20

Lab Sample ID: 590-9910-1 DU
Matrix: Solid
Analysis Batch: 19906

Client Sample ID: TP-12EX-N
Prep Type: Total/NA
Prep Batch: 19897

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Lead	29	F2	32.6		mg/Kg	☼	10	20

Lab Chronicle

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014001

TestAmerica Job ID: 590-9910-1

Client Sample ID: TP-12EX-N
Date Collected: 11/12/18 12:20
Date Received: 11/12/18 13:53

Lab Sample ID: 590-9910-1
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			19889	11/13/18 14:37	NMI	TAL SPK

Client Sample ID: TP-12EX-N
Date Collected: 11/12/18 12:20
Date Received: 11/12/18 13:53

Lab Sample ID: 590-9910-1
Matrix: Solid
Percent Solids: 90.1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			1.19 g	50 mL	19897	11/14/18 08:53	JSP	TAL SPK
Total/NA	Analysis	6010C		1			19906	11/14/18 14:25	JSP	TAL SPK

Client Sample ID: TP-12EX-S
Date Collected: 11/12/18 12:25
Date Received: 11/12/18 13:53

Lab Sample ID: 590-9910-2
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			19889	11/13/18 14:37	NMI	TAL SPK

Client Sample ID: TP-12EX-S
Date Collected: 11/12/18 12:25
Date Received: 11/12/18 13:53

Lab Sample ID: 590-9910-2
Matrix: Solid
Percent Solids: 87.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			1.42 g	50 mL	19897	11/14/18 08:53	JSP	TAL SPK
Total/NA	Analysis	6010C		1			19906	11/14/18 14:47	JSP	TAL SPK

Client Sample ID: SP-5
Date Collected: 11/12/18 12:35
Date Received: 11/12/18 13:53

Lab Sample ID: 590-9910-3
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			19889	11/13/18 14:37	NMI	TAL SPK

Client Sample ID: SP-5
Date Collected: 11/12/18 12:35
Date Received: 11/12/18 13:53

Lab Sample ID: 590-9910-3
Matrix: Solid
Percent Solids: 85.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			1.25 g	50 mL	19897	11/14/18 08:53	JSP	TAL SPK
Total/NA	Analysis	6010C		1			19906	11/14/18 14:51	JSP	TAL SPK

Laboratory References:

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

TestAmerica Spokane

Accreditation/Certification Summary

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014001

TestAmerica Job ID: 590-9910-1

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 the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

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

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Method Summary

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014001

TestAmerica Job ID: 590-9910-1

Method	Method Description	Protocol	Laboratory
6010C	Metals (ICP)	SW846	TAL SPK
Moisture	Percent Moisture	EPA	TAL SPK
3050B	Preparation, Metals	SW846	TAL SPK

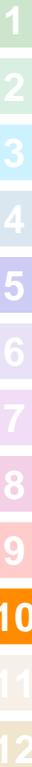
Protocol References:

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



Login Sample Receipt Checklist

Client: Hart Crowser, Inc.

Job Number: 590-9910-1

Login Number: 9910

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	
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?	N/A	Not listed on COC
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	Sample is solid
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

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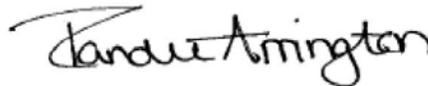
ANALYTICAL REPORT

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

TestAmerica Job ID: 590-10409-1
Client Project/Site: CVSD/15014001

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

Attn: John Haney



Authorized for release by:
2/13/2019 3:54:12 PM

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

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Case Narrative

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014001

TestAmerica Job ID: 590-10409-1

Job ID: 590-10409-1

Laboratory: TestAmerica Spokane

Narrative

Receipt

The samples were received on 2/12/2019 11:35 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.8° C.

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.

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Sample Summary

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014001

TestAmerica Job ID: 590-10409-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
590-10409-1	TP-66(6)	Solid	02/12/19 10:00	02/12/19 11:35
590-10409-2	TP-67(6)	Solid	02/12/19 10:15	02/12/19 11:35
590-10409-3	TP-68(6)	Solid	02/12/19 10:30	02/12/19 11:35

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Definitions/Glossary

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014001

TestAmerica Job ID: 590-10409-1

Qualifiers

Metals

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
F3	Duplicate RPD exceeds the control limit

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: CVSD/15014001

TestAmerica Job ID: 590-10409-1

Client Sample ID: TP-66(6)

Date Collected: 02/12/19 10:00

Date Received: 02/12/19 11:35

Lab Sample ID: 590-10409-1

Matrix: Solid

Percent Solids: 77.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		12		ug/Kg	☼	02/13/19 09:02	02/13/19 12:37	1
2-Methylnaphthalene	ND		12		ug/Kg	☼	02/13/19 09:02	02/13/19 12:37	1
1-Methylnaphthalene	ND		12		ug/Kg	☼	02/13/19 09:02	02/13/19 12:37	1
Acenaphthylene	ND		12		ug/Kg	☼	02/13/19 09:02	02/13/19 12:37	1
Acenaphthene	ND		12		ug/Kg	☼	02/13/19 09:02	02/13/19 12:37	1
Fluorene	ND		12		ug/Kg	☼	02/13/19 09:02	02/13/19 12:37	1
Phenanthrene	ND		12		ug/Kg	☼	02/13/19 09:02	02/13/19 12:37	1
Anthracene	ND		12		ug/Kg	☼	02/13/19 09:02	02/13/19 12:37	1
Fluoranthene	ND		12		ug/Kg	☼	02/13/19 09:02	02/13/19 12:37	1
Pyrene	ND		12		ug/Kg	☼	02/13/19 09:02	02/13/19 12:37	1
Benzo[a]anthracene	ND		12		ug/Kg	☼	02/13/19 09:02	02/13/19 12:37	1
Chrysene	ND		12		ug/Kg	☼	02/13/19 09:02	02/13/19 12:37	1
Benzo[b]fluoranthene	12		12		ug/Kg	☼	02/13/19 09:02	02/13/19 12:37	1
Benzo[k]fluoranthene	ND		12		ug/Kg	☼	02/13/19 09:02	02/13/19 12:37	1
Benzo[a]pyrene	ND		12		ug/Kg	☼	02/13/19 09:02	02/13/19 12:37	1
Indeno[1,2,3-cd]pyrene	ND		12		ug/Kg	☼	02/13/19 09:02	02/13/19 12:37	1
Dibenz(a,h)anthracene	ND		12		ug/Kg	☼	02/13/19 09:02	02/13/19 12:37	1
Benzo[g,h,i]perylene	ND		12		ug/Kg	☼	02/13/19 09:02	02/13/19 12:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	66		23 - 120				02/13/19 09:02	02/13/19 12:37	1
2-Fluorobiphenyl (Surr)	77		38 - 123				02/13/19 09:02	02/13/19 12:37	1
p-Terphenyl-d14	88		68 - 136				02/13/19 09:02	02/13/19 12:37	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	27	F1	2.8		mg/Kg	☼	02/12/19 14:03	02/13/19 11:03	1

Client Sample ID: TP-67(6)

Date Collected: 02/12/19 10:15

Date Received: 02/12/19 11:35

Lab Sample ID: 590-10409-2

Matrix: Solid

Percent Solids: 75.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		13		ug/Kg	☼	02/13/19 09:02	02/13/19 13:03	1
2-Methylnaphthalene	ND		13		ug/Kg	☼	02/13/19 09:02	02/13/19 13:03	1
1-Methylnaphthalene	ND		13		ug/Kg	☼	02/13/19 09:02	02/13/19 13:03	1
Acenaphthylene	ND		13		ug/Kg	☼	02/13/19 09:02	02/13/19 13:03	1
Acenaphthene	ND		13		ug/Kg	☼	02/13/19 09:02	02/13/19 13:03	1
Fluorene	ND		13		ug/Kg	☼	02/13/19 09:02	02/13/19 13:03	1
Phenanthrene	ND		13		ug/Kg	☼	02/13/19 09:02	02/13/19 13:03	1
Anthracene	ND		13		ug/Kg	☼	02/13/19 09:02	02/13/19 13:03	1
Fluoranthene	13		13		ug/Kg	☼	02/13/19 09:02	02/13/19 13:03	1
Pyrene	14		13		ug/Kg	☼	02/13/19 09:02	02/13/19 13:03	1
Benzo[a]anthracene	ND		13		ug/Kg	☼	02/13/19 09:02	02/13/19 13:03	1
Chrysene	13		13		ug/Kg	☼	02/13/19 09:02	02/13/19 13:03	1
Benzo[b]fluoranthene	19		13		ug/Kg	☼	02/13/19 09:02	02/13/19 13:03	1
Benzo[k]fluoranthene	ND		13		ug/Kg	☼	02/13/19 09:02	02/13/19 13:03	1
Benzo[a]pyrene	15		13		ug/Kg	☼	02/13/19 09:02	02/13/19 13:03	1
Indeno[1,2,3-cd]pyrene	ND		13		ug/Kg	☼	02/13/19 09:02	02/13/19 13:03	1

TestAmerica Spokane

Client Sample Results

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014001

TestAmerica Job ID: 590-10409-1

Client Sample ID: TP-67(6)

Date Collected: 02/12/19 10:15

Date Received: 02/12/19 11:35

Lab Sample ID: 590-10409-2

Matrix: Solid

Percent Solids: 75.9

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	ND		13		ug/Kg	☼	02/13/19 09:02	02/13/19 13:03	1
Benzo[g,h,i]perylene	13		13		ug/Kg	☼	02/13/19 09:02	02/13/19 13:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	75		23 - 120				02/13/19 09:02	02/13/19 13:03	1
2-Fluorobiphenyl (Surr)	85		38 - 123				02/13/19 09:02	02/13/19 13:03	1
p-Terphenyl-d14	95		68 - 136				02/13/19 09:02	02/13/19 13:03	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	20		2.8		mg/Kg	☼	02/12/19 14:03	02/13/19 11:25	1

Client Sample ID: TP-68(6)

Date Collected: 02/12/19 10:30

Date Received: 02/12/19 11:35

Lab Sample ID: 590-10409-3

Matrix: Solid

Percent Solids: 75.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		13		ug/Kg	☼	02/13/19 09:02	02/13/19 13:29	1
2-Methylnaphthalene	ND		13		ug/Kg	☼	02/13/19 09:02	02/13/19 13:29	1
1-Methylnaphthalene	ND		13		ug/Kg	☼	02/13/19 09:02	02/13/19 13:29	1
Acenaphthylene	ND		13		ug/Kg	☼	02/13/19 09:02	02/13/19 13:29	1
Acenaphthene	ND		13		ug/Kg	☼	02/13/19 09:02	02/13/19 13:29	1
Fluorene	ND		13		ug/Kg	☼	02/13/19 09:02	02/13/19 13:29	1
Phenanthrene	ND		13		ug/Kg	☼	02/13/19 09:02	02/13/19 13:29	1
Anthracene	ND		13		ug/Kg	☼	02/13/19 09:02	02/13/19 13:29	1
Fluoranthene	28		13		ug/Kg	☼	02/13/19 09:02	02/13/19 13:29	1
Pyrene	33		13		ug/Kg	☼	02/13/19 09:02	02/13/19 13:29	1
Benzo[a]anthracene	22		13		ug/Kg	☼	02/13/19 09:02	02/13/19 13:29	1
Chrysene	29		13		ug/Kg	☼	02/13/19 09:02	02/13/19 13:29	1
Benzo[b]fluoranthene	40		13		ug/Kg	☼	02/13/19 09:02	02/13/19 13:29	1
Benzo[k]fluoranthene	16		13		ug/Kg	☼	02/13/19 09:02	02/13/19 13:29	1
Benzo[a]pyrene	32		13		ug/Kg	☼	02/13/19 09:02	02/13/19 13:29	1
Indeno[1,2,3-cd]pyrene	21		13		ug/Kg	☼	02/13/19 09:02	02/13/19 13:29	1
Dibenz(a,h)anthracene	ND		13		ug/Kg	☼	02/13/19 09:02	02/13/19 13:29	1
Benzo[g,h,i]perylene	27		13		ug/Kg	☼	02/13/19 09:02	02/13/19 13:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	71		23 - 120				02/13/19 09:02	02/13/19 13:29	1
2-Fluorobiphenyl (Surr)	84		38 - 123				02/13/19 09:02	02/13/19 13:29	1
p-Terphenyl-d14	96		68 - 136				02/13/19 09:02	02/13/19 13:29	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	31		2.4		mg/Kg	☼	02/12/19 14:03	02/13/19 11:38	1

TestAmerica Spokane

QC Sample Results

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014001

TestAmerica Job ID: 590-10409-1

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

Lab Sample ID: MB 590-20917/1-A
Matrix: Solid
Analysis Batch: 20918

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 20917

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		10		ug/Kg		02/13/19 09:02	02/13/19 10:52	1
2-Methylnaphthalene	ND		10		ug/Kg		02/13/19 09:02	02/13/19 10:52	1
1-Methylnaphthalene	ND		10		ug/Kg		02/13/19 09:02	02/13/19 10:52	1
Acenaphthylene	ND		10		ug/Kg		02/13/19 09:02	02/13/19 10:52	1
Acenaphthene	ND		10		ug/Kg		02/13/19 09:02	02/13/19 10:52	1
Fluorene	ND		10		ug/Kg		02/13/19 09:02	02/13/19 10:52	1
Phenanthrene	ND		10		ug/Kg		02/13/19 09:02	02/13/19 10:52	1
Anthracene	ND		10		ug/Kg		02/13/19 09:02	02/13/19 10:52	1
Fluoranthene	ND		10		ug/Kg		02/13/19 09:02	02/13/19 10:52	1
Pyrene	ND		10		ug/Kg		02/13/19 09:02	02/13/19 10:52	1
Benzo[a]anthracene	ND		10		ug/Kg		02/13/19 09:02	02/13/19 10:52	1
Chrysene	ND		10		ug/Kg		02/13/19 09:02	02/13/19 10:52	1
Benzo[b]fluoranthene	ND		10		ug/Kg		02/13/19 09:02	02/13/19 10:52	1
Benzo[k]fluoranthene	ND		10		ug/Kg		02/13/19 09:02	02/13/19 10:52	1
Benzo[a]pyrene	ND		10		ug/Kg		02/13/19 09:02	02/13/19 10:52	1
Indeno[1,2,3-cd]pyrene	ND		10		ug/Kg		02/13/19 09:02	02/13/19 10:52	1
Dibenz(a,h)anthracene	ND		10		ug/Kg		02/13/19 09:02	02/13/19 10:52	1
Benzo[g,h,i]perylene	ND		10		ug/Kg		02/13/19 09:02	02/13/19 10:52	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	65		23 - 120	02/13/19 09:02	02/13/19 10:52	1
2-Fluorobiphenyl (Surr)	70		38 - 123	02/13/19 09:02	02/13/19 10:52	1
p-Terphenyl-d14	99		68 - 136	02/13/19 09:02	02/13/19 10:52	1

Lab Sample ID: LCS 590-20917/2-A
Matrix: Solid
Analysis Batch: 20918

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 20917

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Naphthalene	267	197		ug/Kg		74	41 - 121
2-Methylnaphthalene	267	206		ug/Kg		77	39 - 132
1-Methylnaphthalene	267	215		ug/Kg		80	46 - 131
Acenaphthylene	267	231		ug/Kg		87	56 - 123
Acenaphthene	267	220		ug/Kg		83	43 - 140
Fluorene	267	236		ug/Kg		88	54 - 131
Phenanthrene	267	233		ug/Kg		87	55 - 141
Anthracene	267	228		ug/Kg		85	60 - 129
Fluoranthene	267	246		ug/Kg		92	63 - 141
Pyrene	267	245		ug/Kg		92	62 - 139
Benzo[a]anthracene	267	247		ug/Kg		92	61 - 136
Chrysene	267	250		ug/Kg		94	57 - 144
Benzo[b]fluoranthene	267	248		ug/Kg		93	66 - 141
Benzo[k]fluoranthene	267	251		ug/Kg		94	63 - 150
Benzo[a]pyrene	267	215		ug/Kg		81	60 - 133
Indeno[1,2,3-cd]pyrene	267	247		ug/Kg		93	55 - 142
Dibenz(a,h)anthracene	267	249		ug/Kg		94	60 - 150
Benzo[g,h,i]perylene	267	246		ug/Kg		92	58 - 147

TestAmerica Spokane

QC Sample Results

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014001

TestAmerica Job ID: 590-10409-1

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

Lab Sample ID: LCS 590-20917/2-A
Matrix: Solid
Analysis Batch: 20918

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 20917

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Nitrobenzene-d5	85		23 - 120
2-Fluorobiphenyl (Surr)	92		38 - 123
p-Terphenyl-d14	107		68 - 136

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 590-20898/2-A
Matrix: Solid
Analysis Batch: 20921

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 20898

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		3.0		mg/Kg		02/12/19 14:03	02/13/19 11:00	1

Lab Sample ID: LCS 590-20898/1-A
Matrix: Solid
Analysis Batch: 20921

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 20898

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	50.0	52.8		mg/Kg		106	80 - 120

Lab Sample ID: 590-10409-1 MS
Matrix: Solid
Analysis Batch: 20921

Client Sample ID: TP-66(6)
Prep Type: Total/NA
Prep Batch: 20898

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	27	F1	53.1	60.3	F1	mg/Kg	☼	62	75 - 125

Lab Sample ID: 590-10409-1 MSD
Matrix: Solid
Analysis Batch: 20921

Client Sample ID: TP-66(6)
Prep Type: Total/NA
Prep Batch: 20898

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead	27	F1	58.4	69.1	F1	mg/Kg	☼	72	75 - 125	14	20

Lab Sample ID: 590-10409-1 DU
Matrix: Solid
Analysis Batch: 20921

Client Sample ID: TP-66(6)
Prep Type: Total/NA
Prep Batch: 20898

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Lead	27	F1	17.0	F3	mg/Kg	☼	46	20

Lab Chronicle

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014001

TestAmerica Job ID: 590-10409-1

Client Sample ID: TP-66(6)
Date Collected: 02/12/19 10:00
Date Received: 02/12/19 11:35

Lab Sample ID: 590-10409-1
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			20909	02/12/19 17:32	JSP	TAL SPK

Client Sample ID: TP-66(6)
Date Collected: 02/12/19 10:00
Date Received: 02/12/19 11:35

Lab Sample ID: 590-10409-1
Matrix: Solid
Percent Solids: 77.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			15.96 g	2 mL	20917	02/13/19 09:02	NMI	TAL SPK
Total/NA	Analysis	8270D SIM		1			20918	02/13/19 12:37	NMI	TAL SPK
Total/NA	Prep	3050B			1.38 g	50 mL	20898	02/12/19 14:03	JSP	TAL SPK
Total/NA	Analysis	6010C		1			20921	02/13/19 11:03	JSP	TAL SPK

Client Sample ID: TP-67(6)
Date Collected: 02/12/19 10:15
Date Received: 02/12/19 11:35

Lab Sample ID: 590-10409-2
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			20909	02/12/19 17:32	JSP	TAL SPK

Client Sample ID: TP-67(6)
Date Collected: 02/12/19 10:15
Date Received: 02/12/19 11:35

Lab Sample ID: 590-10409-2
Matrix: Solid
Percent Solids: 75.9

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	20917	02/13/19 09:02	NMI	TAL SPK
Total/NA	Analysis	8270D SIM		1			20918	02/13/19 13:03	NMI	TAL SPK
Total/NA	Prep	3050B			1.42 g	50 mL	20898	02/12/19 14:03	JSP	TAL SPK
Total/NA	Analysis	6010C		1			20921	02/13/19 11:25	JSP	TAL SPK

Client Sample ID: TP-68(6)
Date Collected: 02/12/19 10:30
Date Received: 02/12/19 11:35

Lab Sample ID: 590-10409-3
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			20909	02/12/19 17:32	JSP	TAL SPK

Client Sample ID: TP-68(6)
Date Collected: 02/12/19 10:30
Date Received: 02/12/19 11:35

Lab Sample ID: 590-10409-3
Matrix: Solid
Percent Solids: 75.1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			15.34 g	2 mL	20917	02/13/19 09:02	NMI	TAL SPK

TestAmerica Spokane

Lab Chronicle

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014001

TestAmerica Job ID: 590-10409-1

Client Sample ID: TP-68(6)

Date Collected: 02/12/19 10:30

Date Received: 02/12/19 11:35

Lab Sample ID: 590-10409-3

Matrix: Solid

Percent Solids: 75.1

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			20918	02/13/19 13:29	NMI	TAL SPK
Total/NA	Prep	3050B			1.67 g	50 mL	20898	02/12/19 14:03	JSP	TAL SPK
Total/NA	Analysis	6010C		1			20921	02/13/19 11:38	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: CVSD/15014001

TestAmerica Job ID: 590-10409-1

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	01-06-20

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

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: CVSD/15014001

TestAmerica Job ID: 590-10409-1

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

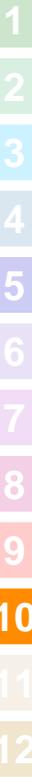
Protocol References:

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



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

11922 E. First Ave., Spokane WA 99206-5302
 9405 SW Nimbus Ave., Beaverton, OR 97008-7145
 2000 W International Airport Rd Ste A10, Anchorage, AK 99502-1119

509-924-9200 FAX 924-9290
 503-906-9200 FAX 906-9210
 907-563-9200 FAX 563-9210

CHAIN OF CUSTODY REPORT

Work Order #:

CLIENT:		INVOICE TO: JOHN HANEY HART CROWSEY		TURNAROUND REQUEST in Business Days * Organic & Inorganic Analyses <input type="checkbox"/> 10 <input type="checkbox"/> 7 <input type="checkbox"/> 5 <input type="checkbox"/> 4 <input type="checkbox"/> 3 <input type="checkbox"/> 2 <input type="checkbox"/> 1 <input type="checkbox"/> <1 STD. Petroleum Hydrocarbon Analyses <input type="checkbox"/> 5 <input type="checkbox"/> 4 <input type="checkbox"/> 3 <input type="checkbox"/> 2 <input type="checkbox"/> 1 <input type="checkbox"/> <1 STD. <input type="checkbox"/> OTHER Specify: 24 HR			
REPORT TO: JOHN HANEY HART CROWSEY ADDRESS:		P.O. NUMBER:					
PHONE: 206-324-9330 FAX:		PRESERVATIVE		* Turnaround Requests less than standard may incur Rush Charges.			
PROJECT NAME: CVSD		REQUESTED ANALYSES					
PROJECT NUMBER:				MATRIX (W, S, O) # OF CONT. LOCATION/ COMMENTS TA WO ID			
SAMPLED BY: W. McDONALD							
CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME	PHAS	LEAD				
1 TP-66(6)	2/12/19 1000	X	X				
2 TP-67(6)	↓ 1015	X	X				
3 TP-68(6)	↓ 1030	X	X				
4							
5							
6							
7							
8							
9							
10							
RELEASED BY: W. McDONALD	FIRM: HC	DATE: 2/12/19	TIME: 11:35	RECEIVED BY: Math Suda	FIRM: TA-890	DATE: 2-12-19	TIME: 11:35
RELEASED BY:	FIRM:	DATE:	TIME:	RECEIVED BY:	FIRM:	DATE:	TIME:
PRINT NAME:	FIRM:	DATE:	TIME:	PRINT NAME:	FIRM:	DATE:	TIME:
ADDITIONAL REMARKS:						TEMP: 5.8°C	PAGE OF



590-10409 Chain of Custody

TEMP: **5.8°C**
 (1200) TAL-1000 (0714)

Login Sample Receipt Checklist

Client: Hart Crowser, Inc.

Job Number: 590-10409-1

Login Number: 10409

List Source: TestAmerica Spokane

List Number: 1

Creator: Arrington, Randee E

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	
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	



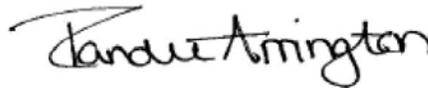
ANALYTICAL REPORT

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

TestAmerica Job ID: 590-10409-2
Client Project/Site: CVSD/15014001

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

Attn: John Haney



Authorized for release by:
3/11/2019 2:03:39 PM

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

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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.



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Case Narrative

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014001

TestAmerica Job ID: 590-10409-2

Job ID: 590-10409-2

Laboratory: TestAmerica Spokane

Narrative

Receipt

The samples were received on 2/12/2019 11:35 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.8° C.

Receipt Exceptions

The following samples were activated for Organochlorinated, Organophosphorus Pesticide and Herbicide analysis by the client on 3/1/2019: TP-66(6) (590-10409-1), TP-67(6) (590-10409-2) and TP-68(6) (590-10409-3). This analysis was not originally requested on the chain-of-custody (COC).

GC/MS Semi VOA

Method 8270D: The continuing calibration verification (CCV) associated with batch 400-432209 recovered outside acceptance criteria, low biased, for Sulfotepp and Tokuthion. A reporting limit (RL) standard was analyzed, and the target analyte was detected. Since the associated samples were non-detect for this analyte, the data have been reported.

Method 8270D: The continuing calibration verification (CCV) associated with batch 400-432209 recovered above the upper control limit for Prometon and Simazine. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 8270D: The continuing calibration verification (CCV) associated with batch 400-432209 recovered outside acceptance criteria, low biased, for Sulfotepp, Tokuthion, Vernolate, EPTC, Butylate and Pebulate. A reporting limit (RL) standard was analyzed, and the target analyte was detected. Since the associated samples were non-detect for this analyte, the data have been reported.

Method 8270D: The continuing calibration verification (CCV) associated with batch 400-432424 recovered above the upper control limit for Famphur. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 8270D: The continuing calibration verification (CCV) associated with batch 400-432424 recovered outside acceptance criteria, low biased, for Tokuthion, Vernolate, EPTC, Butylate and Pebulate. A reporting limit (RL) standard was analyzed, and the target analyte was detected. Since the associated samples were non-detect for this analyte, the data have been reported.

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

GC Semi VOA

Method 8081B: The continuing calibration verification (CCV) associated with batch 400-432212 recovered outside acceptance criteria, low biased, for Heptachlor, Methoxychlor, Endosulfan II, 4,4'-DDD and 4,4'-DDT. A reporting limit (RL) standard was analyzed, and the target analyte was detected. Since the associated samples were non-detect for this analyte, the data have been reported.

Method 8081B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 400-431997 and analytical batch 400-432212 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

Organic Prep

Method 3546: The following samples were prepared outside of preparation holding time due to client request: TP-66(6) (590-10409-1), TP-67(6) (590-10409-2), TP-68(6) (590-10409-3), (590-10409-A-2 MS) and (590-10409-A-2 MSD).

Method 8151A: The following samples were prepared outside of preparation holding time due to samples activated out of hold : TP-66(6) (590-10409-1), TP-67(6) (590-10409-2) and TP-68(6) (590-10409-3).

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

Sample Summary

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014001

TestAmerica Job ID: 590-10409-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
590-10409-1	TP-66(6)	Solid	02/12/19 10:00	02/12/19 11:35
590-10409-2	TP-67(6)	Solid	02/12/19 10:15	02/12/19 11:35
590-10409-3	TP-68(6)	Solid	02/12/19 10:30	02/12/19 11:35

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12

Definitions/Glossary

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014001

TestAmerica Job ID: 590-10409-2

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
H	Sample was prepped or analyzed beyond the specified holding time
*	LCS or LCSD is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC Semi VOA

Qualifier	Qualifier Description
H	Sample was prepped or analyzed beyond the specified holding time
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

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: CVSD/15014001

TestAmerica Job ID: 590-10409-2

Client Sample ID: TP-66(6)

Lab Sample ID: 590-10409-1

Date Collected: 02/12/19 10:00

Matrix: Solid

Date Received: 02/12/19 11:35

Percent Solids: 77.2

Method: 8270D - Pesticides by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ametryn	ND	H	84		ug/Kg	☼	03/04/19 09:46	03/05/19 23:46	1
Atrazine	ND	H	84		ug/Kg	☼	03/04/19 09:46	03/05/19 23:46	1
Bolstar	ND	H	84		ug/Kg	☼	03/04/19 09:46	03/05/19 23:46	1
Butylate	ND	H	84		ug/Kg	☼	03/04/19 09:46	03/05/19 23:46	1
Chlorpyrifos	ND	H	84		ug/Kg	☼	03/04/19 09:46	03/05/19 23:46	1
Coumaphos	ND	H	840		ug/Kg	☼	03/04/19 09:46	03/05/19 23:46	1
Cycloate	ND	H	84		ug/Kg	☼	03/04/19 09:46	03/05/19 23:46	1
Diazinon	ND	H	170		ug/Kg	☼	03/04/19 09:46	03/05/19 23:46	1
Dichlorvos	ND	H	170		ug/Kg	☼	03/04/19 09:46	03/05/19 23:46	1
Dimethoate	ND	H	170		ug/Kg	☼	03/04/19 09:46	03/05/19 23:46	1
Disulfoton	ND	H	170		ug/Kg	☼	03/04/19 09:46	03/05/19 23:46	1
EPN	ND	H	170		ug/Kg	☼	03/04/19 09:46	03/05/19 23:46	1
EPTC	ND	H *	84		ug/Kg	☼	03/04/19 09:46	03/05/19 23:46	1
Ethoprop	ND	H	84		ug/Kg	☼	03/04/19 09:46	03/05/19 23:46	1
Ethyl Parathion	ND	H	84		ug/Kg	☼	03/04/19 09:46	03/05/19 23:46	1
Famphur	ND	H	170		ug/Kg	☼	03/04/19 09:46	03/05/19 23:46	1
Fensulfothion	ND	H	840		ug/Kg	☼	03/04/19 09:46	03/05/19 23:46	1
Fenthion	ND	H	84		ug/Kg	☼	03/04/19 09:46	03/05/19 23:46	1
Malathion	ND	H	84		ug/Kg	☼	03/04/19 09:46	03/05/19 23:46	1
Methyl parathion	ND	H	84		ug/Kg	☼	03/04/19 09:46	03/05/19 23:46	1
Mevinphos	ND	H	170		ug/Kg	☼	03/04/19 09:46	03/05/19 23:46	1
Molinate	ND	H	84		ug/Kg	☼	03/04/19 09:46	03/05/19 23:46	1
Pebulate	ND	H	84		ug/Kg	☼	03/04/19 09:46	03/05/19 23:46	1
Phorate	ND	H	84		ug/Kg	☼	03/04/19 09:46	03/05/19 23:46	1
Prometon	ND	H	84		ug/Kg	☼	03/04/19 09:46	03/05/19 23:46	1
Prometryn	ND	H	84		ug/Kg	☼	03/04/19 09:46	03/05/19 23:46	1
Propazine	ND	H	84		ug/Kg	☼	03/04/19 09:46	03/05/19 23:46	1
Ronnel	ND	H	84		ug/Kg	☼	03/04/19 09:46	03/05/19 23:46	1
Simazine	ND	H	84		ug/Kg	☼	03/04/19 09:46	03/05/19 23:46	1
Simetryn	ND	H	84		ug/Kg	☼	03/04/19 09:46	03/05/19 23:46	1
Stirophos	ND	H	84		ug/Kg	☼	03/04/19 09:46	03/05/19 23:46	1
Sulfotepp	ND	H	84		ug/Kg	☼	03/04/19 09:46	03/05/19 23:46	1
Terbutryn	ND	H	84		ug/Kg	☼	03/04/19 09:46	03/05/19 23:46	1
Thionazin	ND	H	84		ug/Kg	☼	03/04/19 09:46	03/05/19 23:46	1
Tokuthion	ND	H	84		ug/Kg	☼	03/04/19 09:46	03/05/19 23:46	1
Trichloronate	ND	H	840		ug/Kg	☼	03/04/19 09:46	03/05/19 23:46	1
Vernolate	ND	H	84		ug/Kg	☼	03/04/19 09:46	03/05/19 23:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Triphenylphosphate	62		30 - 164	03/04/19 09:46	03/05/19 23:46	1

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND	H	2.1		ug/Kg	☼	03/04/19 09:24	03/06/19 01:22	1
4,4'-DDE	ND	H	2.1		ug/Kg	☼	03/04/19 09:24	03/06/19 01:22	1
4,4'-DDT	ND	H	2.1		ug/Kg	☼	03/04/19 09:24	03/06/19 01:22	1
Aldrin	ND	H	2.1		ug/Kg	☼	03/04/19 09:24	03/06/19 01:22	1
alpha-BHC	ND	H	2.1		ug/Kg	☼	03/04/19 09:24	03/06/19 01:22	1
beta-BHC	ND	H	2.1		ug/Kg	☼	03/04/19 09:24	03/06/19 01:22	1
cis-Chlordane	ND	H	2.1		ug/Kg	☼	03/04/19 09:24	03/06/19 01:22	1

TestAmerica Spokane

Client Sample Results

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014001

TestAmerica Job ID: 590-10409-2

Client Sample ID: TP-66(6)

Lab Sample ID: 590-10409-1

Date Collected: 02/12/19 10:00

Matrix: Solid

Date Received: 02/12/19 11:35

Percent Solids: 77.2

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
delta-BHC	ND	H	2.1		ug/Kg	☼	03/04/19 09:24	03/06/19 01:22	1
Dieldrin	ND	H	2.1		ug/Kg	☼	03/04/19 09:24	03/06/19 01:22	1
Endosulfan I	ND	H	2.1		ug/Kg	☼	03/04/19 09:24	03/06/19 01:22	1
Endosulfan II	ND	H	2.1		ug/Kg	☼	03/04/19 09:24	03/06/19 01:22	1
Endosulfan sulfate	ND	H	2.1		ug/Kg	☼	03/04/19 09:24	03/06/19 01:22	1
Endrin	ND	H	2.1		ug/Kg	☼	03/04/19 09:24	03/06/19 01:22	1
Endrin aldehyde	ND	H	2.1		ug/Kg	☼	03/04/19 09:24	03/06/19 01:22	1
Endrin ketone	ND	H	2.1		ug/Kg	☼	03/04/19 09:24	03/06/19 01:22	1
gamma-BHC (Lindane)	ND	H	2.1		ug/Kg	☼	03/04/19 09:24	03/06/19 01:22	1
Heptachlor	ND	H	2.1		ug/Kg	☼	03/04/19 09:24	03/06/19 01:22	1
Heptachlor epoxide	ND	H	2.1		ug/Kg	☼	03/04/19 09:24	03/06/19 01:22	1
Methoxychlor	ND	H	2.1		ug/Kg	☼	03/04/19 09:24	03/06/19 01:22	1
Toxaphene	ND	H	130		ug/Kg	☼	03/04/19 09:24	03/06/19 01:22	1
trans-Chlordane	ND	H	2.1		ug/Kg	☼	03/04/19 09:24	03/06/19 01:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	100		26 - 129				03/04/19 09:24	03/06/19 01:22	1
Tetrachloro-m-xylene	67		31 - 122				03/04/19 09:24	03/06/19 01:22	1

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	ND	H	0.26		mg/Kg	☼	03/04/19 13:11	03/07/19 22:01	1
Dinoseb	ND	H	0.26		mg/Kg	☼	03/04/19 13:11	03/07/19 22:01	1
Silvex (2,4,5-TP)	ND	H	0.052		mg/Kg	☼	03/04/19 13:11	03/07/19 22:01	1
2,4,5-T	ND	H	0.052		mg/Kg	☼	03/04/19 13:11	03/07/19 22:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	64		10 - 150				03/04/19 13:11	03/07/19 22:01	1

Client Sample ID: TP-67(6)

Lab Sample ID: 590-10409-2

Date Collected: 02/12/19 10:15

Matrix: Solid

Date Received: 02/12/19 11:35

Percent Solids: 75.9

Method: 8270D - Pesticides by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ametryn	ND	H	87		ug/Kg	☼	03/04/19 09:46	03/06/19 00:11	1
Atrazine	ND	H	87		ug/Kg	☼	03/04/19 09:46	03/06/19 00:11	1
Bolstar	ND	H	87		ug/Kg	☼	03/04/19 09:46	03/06/19 00:11	1
Butylate	ND	H	87		ug/Kg	☼	03/04/19 09:46	03/06/19 00:11	1
Chlorpyrifos	ND	H	87		ug/Kg	☼	03/04/19 09:46	03/06/19 00:11	1
Coumaphos	ND	H	870		ug/Kg	☼	03/04/19 09:46	03/06/19 00:11	1
Cycloate	ND	H	87		ug/Kg	☼	03/04/19 09:46	03/06/19 00:11	1
Diazinon	ND	H	170		ug/Kg	☼	03/04/19 09:46	03/06/19 00:11	1
Dichlorvos	ND	H	170		ug/Kg	☼	03/04/19 09:46	03/06/19 00:11	1
Dimethoate	ND	H	170		ug/Kg	☼	03/04/19 09:46	03/06/19 00:11	1
Disulfoton	ND	H	170		ug/Kg	☼	03/04/19 09:46	03/06/19 00:11	1
EPN	ND	H	170		ug/Kg	☼	03/04/19 09:46	03/06/19 00:11	1
EPTC	ND	H *	87		ug/Kg	☼	03/04/19 09:46	03/06/19 00:11	1
Ethoprop	ND	H	87		ug/Kg	☼	03/04/19 09:46	03/06/19 00:11	1
Ethyl Parathion	ND	H	87		ug/Kg	☼	03/04/19 09:46	03/06/19 00:11	1

TestAmerica Spokane

Client Sample Results

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014001

TestAmerica Job ID: 590-10409-2

Client Sample ID: TP-67(6)

Lab Sample ID: 590-10409-2

Date Collected: 02/12/19 10:15

Matrix: Solid

Date Received: 02/12/19 11:35

Percent Solids: 75.9

Method: 8270D - Pesticides by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Famphur	ND	H	170		ug/Kg	☼	03/04/19 09:46	03/06/19 00:11	1
Fensulfothion	ND	H	870		ug/Kg	☼	03/04/19 09:46	03/06/19 00:11	1
Fenthion	ND	H	87		ug/Kg	☼	03/04/19 09:46	03/06/19 00:11	1
Malathion	ND	H	87		ug/Kg	☼	03/04/19 09:46	03/06/19 00:11	1
Methyl parathion	ND	H	87		ug/Kg	☼	03/04/19 09:46	03/06/19 00:11	1
Mevinphos	ND	H	170		ug/Kg	☼	03/04/19 09:46	03/06/19 00:11	1
Molinate	ND	H	87		ug/Kg	☼	03/04/19 09:46	03/06/19 00:11	1
Pebulate	ND	H	87		ug/Kg	☼	03/04/19 09:46	03/06/19 00:11	1
Phorate	ND	H	87		ug/Kg	☼	03/04/19 09:46	03/06/19 00:11	1
Prometon	ND	H	87		ug/Kg	☼	03/04/19 09:46	03/06/19 00:11	1
Prometryn	ND	H	87		ug/Kg	☼	03/04/19 09:46	03/06/19 00:11	1
Propazine	ND	H	87		ug/Kg	☼	03/04/19 09:46	03/06/19 00:11	1
Ronnel	ND	H	87		ug/Kg	☼	03/04/19 09:46	03/06/19 00:11	1
Simazine	ND	H	87		ug/Kg	☼	03/04/19 09:46	03/06/19 00:11	1
Simetryn	ND	H	87		ug/Kg	☼	03/04/19 09:46	03/06/19 00:11	1
Stirophos	ND	H	87		ug/Kg	☼	03/04/19 09:46	03/06/19 00:11	1
Sulfotepp	ND	H	87		ug/Kg	☼	03/04/19 09:46	03/06/19 00:11	1
Terbutryn	ND	H	87		ug/Kg	☼	03/04/19 09:46	03/06/19 00:11	1
Thionazin	ND	H	87		ug/Kg	☼	03/04/19 09:46	03/06/19 00:11	1
Tokuthion	ND	H	87		ug/Kg	☼	03/04/19 09:46	03/06/19 00:11	1
Trichloronate	ND	H	870		ug/Kg	☼	03/04/19 09:46	03/06/19 00:11	1
Vernolate	ND	H	87		ug/Kg	☼	03/04/19 09:46	03/06/19 00:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Triphenylphosphate	75		30 - 164	03/04/19 09:46	03/06/19 00:11	1

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND	H	2.2		ug/Kg	☼	03/04/19 09:24	03/06/19 01:52	1
4,4'-DDE	ND	H	2.2		ug/Kg	☼	03/04/19 09:24	03/06/19 01:52	1
4,4'-DDT	ND	H	2.2		ug/Kg	☼	03/04/19 09:24	03/06/19 01:52	1
Aldrin	ND	H	2.2		ug/Kg	☼	03/04/19 09:24	03/06/19 01:52	1
alpha-BHC	ND	H	2.2		ug/Kg	☼	03/04/19 09:24	03/06/19 01:52	1
beta-BHC	ND	H	2.2		ug/Kg	☼	03/04/19 09:24	03/06/19 01:52	1
cis-Chlordane	ND	H	2.2		ug/Kg	☼	03/04/19 09:24	03/06/19 01:52	1
delta-BHC	ND	H	2.2		ug/Kg	☼	03/04/19 09:24	03/06/19 01:52	1
Dieldrin	ND	H	2.2		ug/Kg	☼	03/04/19 09:24	03/06/19 01:52	1
Endosulfan I	ND	H	2.2		ug/Kg	☼	03/04/19 09:24	03/06/19 01:52	1
Endosulfan II	ND	H	2.2		ug/Kg	☼	03/04/19 09:24	03/06/19 01:52	1
Endosulfan sulfate	ND	H	2.2		ug/Kg	☼	03/04/19 09:24	03/06/19 01:52	1
Endrin	ND	H	2.2		ug/Kg	☼	03/04/19 09:24	03/06/19 01:52	1
Endrin aldehyde	ND	H	2.2		ug/Kg	☼	03/04/19 09:24	03/06/19 01:52	1
Endrin ketone	ND	H F1	2.2		ug/Kg	☼	03/04/19 09:24	03/06/19 01:52	1
gamma-BHC (Lindane)	ND	H	2.2		ug/Kg	☼	03/04/19 09:24	03/06/19 01:52	1
Heptachlor	ND	H	2.2		ug/Kg	☼	03/04/19 09:24	03/06/19 01:52	1
Heptachlor epoxide	ND	H F2	2.2		ug/Kg	☼	03/04/19 09:24	03/06/19 01:52	1
Methoxychlor	ND	H	2.2		ug/Kg	☼	03/04/19 09:24	03/06/19 01:52	1
Toxaphene	ND	H	130		ug/Kg	☼	03/04/19 09:24	03/06/19 01:52	1
trans-Chlordane	ND	H	2.2		ug/Kg	☼	03/04/19 09:24	03/06/19 01:52	1

TestAmerica Spokane

Client Sample Results

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014001

TestAmerica Job ID: 590-10409-2

Client Sample ID: TP-67(6)

Date Collected: 02/12/19 10:15

Date Received: 02/12/19 11:35

Lab Sample ID: 590-10409-2

Matrix: Solid

Percent Solids: 75.9

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	76		26 - 129	03/04/19 09:24	03/06/19 01:52	1
Tetrachloro-m-xylene	56		31 - 122	03/04/19 09:24	03/06/19 01:52	1

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	ND	H	0.26		mg/Kg	☼	03/04/19 13:11	03/07/19 22:33	1
Dinoseb	ND	H	0.26		mg/Kg	☼	03/04/19 13:11	03/07/19 22:33	1
Silvex (2,4,5-TP)	ND	H	0.053		mg/Kg	☼	03/04/19 13:11	03/07/19 22:33	1
2,4,5-T	ND	H	0.053		mg/Kg	☼	03/04/19 13:11	03/07/19 22:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	69		10 - 150	03/04/19 13:11	03/07/19 22:33	1

Client Sample ID: TP-68(6)

Date Collected: 02/12/19 10:30

Date Received: 02/12/19 11:35

Lab Sample ID: 590-10409-3

Matrix: Solid

Percent Solids: 75.1

Method: 8270D - Pesticides by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ametryn	ND	H	87		ug/Kg	☼	03/04/19 09:46	03/07/19 10:13	1
Atrazine	ND	H	87		ug/Kg	☼	03/04/19 09:46	03/07/19 10:13	1
Bolstar	ND	H	87		ug/Kg	☼	03/04/19 09:46	03/07/19 10:13	1
Butylate	ND	H	87		ug/Kg	☼	03/04/19 09:46	03/07/19 10:13	1
Chlorpyrifos	ND	H	87		ug/Kg	☼	03/04/19 09:46	03/07/19 10:13	1
Coumaphos	ND	H	870		ug/Kg	☼	03/04/19 09:46	03/07/19 10:13	1
Cycloate	ND	H	87		ug/Kg	☼	03/04/19 09:46	03/07/19 10:13	1
Diazinon	ND	H	170		ug/Kg	☼	03/04/19 09:46	03/07/19 10:13	1
Dichlorvos	ND	H	170		ug/Kg	☼	03/04/19 09:46	03/07/19 10:13	1
Dimethoate	ND	H	170		ug/Kg	☼	03/04/19 09:46	03/07/19 10:13	1
Disulfoton	ND	H	170		ug/Kg	☼	03/04/19 09:46	03/07/19 10:13	1
EPN	ND	H	170		ug/Kg	☼	03/04/19 09:46	03/07/19 10:13	1
EPTC	ND	H	87		ug/Kg	☼	03/04/19 09:46	03/07/19 10:13	1
Ethoprop	ND	H	87		ug/Kg	☼	03/04/19 09:46	03/07/19 10:13	1
Ethyl Parathion	ND	H	87		ug/Kg	☼	03/04/19 09:46	03/07/19 10:13	1
Famphur	ND	H	170		ug/Kg	☼	03/04/19 09:46	03/07/19 10:13	1
Fensulfothion	ND	H	870		ug/Kg	☼	03/04/19 09:46	03/07/19 10:13	1
Fenthion	ND	H	87		ug/Kg	☼	03/04/19 09:46	03/07/19 10:13	1
Malathion	ND	H	87		ug/Kg	☼	03/04/19 09:46	03/07/19 10:13	1
Methyl parathion	ND	H	87		ug/Kg	☼	03/04/19 09:46	03/07/19 10:13	1
Mevinphos	ND	H	170		ug/Kg	☼	03/04/19 09:46	03/07/19 10:13	1
Molinate	ND	H	87		ug/Kg	☼	03/04/19 09:46	03/07/19 10:13	1
Pebulate	ND	H	87		ug/Kg	☼	03/04/19 09:46	03/07/19 10:13	1
Phorate	ND	H	87		ug/Kg	☼	03/04/19 09:46	03/07/19 10:13	1
Prometon	ND	H	87		ug/Kg	☼	03/04/19 09:46	03/07/19 10:13	1
Prometryn	ND	H	87		ug/Kg	☼	03/04/19 09:46	03/07/19 10:13	1
Propazine	ND	H	87		ug/Kg	☼	03/04/19 09:46	03/07/19 10:13	1
Ronnel	ND	H	87		ug/Kg	☼	03/04/19 09:46	03/07/19 10:13	1
Simazine	ND	H	87		ug/Kg	☼	03/04/19 09:46	03/07/19 10:13	1
Simetryn	ND	H	87		ug/Kg	☼	03/04/19 09:46	03/07/19 10:13	1
Stirophos	ND	H	87		ug/Kg	☼	03/04/19 09:46	03/07/19 10:13	1
Sulfotepp	ND	H	87		ug/Kg	☼	03/04/19 09:46	03/07/19 10:13	1

TestAmerica Spokane

Client Sample Results

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014001

TestAmerica Job ID: 590-10409-2

Client Sample ID: TP-68(6)

Lab Sample ID: 590-10409-3

Date Collected: 02/12/19 10:30

Matrix: Solid

Date Received: 02/12/19 11:35

Percent Solids: 75.1

Method: 8270D - Pesticides by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Terbutryn	ND	H	87		ug/Kg	☼	03/04/19 09:46	03/07/19 10:13	1
Thionazin	ND	H	87		ug/Kg	☼	03/04/19 09:46	03/07/19 10:13	1
Tokuthion	ND	H	87		ug/Kg	☼	03/04/19 09:46	03/07/19 10:13	1
Trichloronate	ND	H	870		ug/Kg	☼	03/04/19 09:46	03/07/19 10:13	1
Vernolate	ND	H	87		ug/Kg	☼	03/04/19 09:46	03/07/19 10:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Triphenylphosphate	67		30 - 164				03/04/19 09:46	03/07/19 10:13	1

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND	H	2.2		ug/Kg	☼	03/04/19 09:24	03/06/19 02:22	1
4,4'-DDE	ND	H	2.2		ug/Kg	☼	03/04/19 09:24	03/06/19 02:22	1
4,4'-DDT	ND	H	2.2		ug/Kg	☼	03/04/19 09:24	03/06/19 02:22	1
Aldrin	ND	H	2.2		ug/Kg	☼	03/04/19 09:24	03/06/19 02:22	1
alpha-BHC	ND	H	2.2		ug/Kg	☼	03/04/19 09:24	03/06/19 02:22	1
beta-BHC	ND	H	2.2		ug/Kg	☼	03/04/19 09:24	03/06/19 02:22	1
cis-Chlordane	ND	H	2.2		ug/Kg	☼	03/04/19 09:24	03/06/19 02:22	1
delta-BHC	ND	H	2.2		ug/Kg	☼	03/04/19 09:24	03/06/19 02:22	1
Dieldrin	ND	H	2.2		ug/Kg	☼	03/04/19 09:24	03/06/19 02:22	1
Endosulfan I	ND	H	2.2		ug/Kg	☼	03/04/19 09:24	03/06/19 02:22	1
Endosulfan II	ND	H	2.2		ug/Kg	☼	03/04/19 09:24	03/06/19 02:22	1
Endosulfan sulfate	ND	H	2.2		ug/Kg	☼	03/04/19 09:24	03/06/19 02:22	1
Endrin	ND	H	2.2		ug/Kg	☼	03/04/19 09:24	03/06/19 02:22	1
Endrin aldehyde	ND	H	2.2		ug/Kg	☼	03/04/19 09:24	03/06/19 02:22	1
Endrin ketone	ND	H	2.2		ug/Kg	☼	03/04/19 09:24	03/06/19 02:22	1
gamma-BHC (Lindane)	ND	H	2.2		ug/Kg	☼	03/04/19 09:24	03/06/19 02:22	1
Heptachlor	ND	H	2.2		ug/Kg	☼	03/04/19 09:24	03/06/19 02:22	1
Heptachlor epoxide	ND	H	2.2		ug/Kg	☼	03/04/19 09:24	03/06/19 02:22	1
Methoxychlor	ND	H	2.2		ug/Kg	☼	03/04/19 09:24	03/06/19 02:22	1
Toxaphene	ND	H	130		ug/Kg	☼	03/04/19 09:24	03/06/19 02:22	1
trans-Chlordane	ND	H	2.2		ug/Kg	☼	03/04/19 09:24	03/06/19 02:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	75		26 - 129				03/04/19 09:24	03/06/19 02:22	1
Tetrachloro-m-xylene	53		31 - 122				03/04/19 09:24	03/06/19 02:22	1

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	ND	H	0.26		mg/Kg	☼	03/04/19 13:11	03/07/19 23:06	1
Dinoseb	ND	H	0.26		mg/Kg	☼	03/04/19 13:11	03/07/19 23:06	1
Silvex (2,4,5-TP)	ND	H	0.053		mg/Kg	☼	03/04/19 13:11	03/07/19 23:06	1
2,4,5-T	ND	H	0.053		mg/Kg	☼	03/04/19 13:11	03/07/19 23:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	76		10 - 150				03/04/19 13:11	03/07/19 23:06	1

TestAmerica Spokane

QC Sample Results

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014001

TestAmerica Job ID: 590-10409-2

Method: 8270D - Pesticides by GC/MS

Lab Sample ID: MB 400-432007/1-A
Matrix: Solid
Analysis Batch: 432209

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 432007

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ametryn	ND		66		ug/Kg		03/04/19 09:46	03/05/19 20:53	1
Atrazine	ND		66		ug/Kg		03/04/19 09:46	03/05/19 20:53	1
Bolstar	ND		66		ug/Kg		03/04/19 09:46	03/05/19 20:53	1
Butylate	ND		66		ug/Kg		03/04/19 09:46	03/05/19 20:53	1
Chlorpyrifos	ND		66		ug/Kg		03/04/19 09:46	03/05/19 20:53	1
Coumaphos	ND		660		ug/Kg		03/04/19 09:46	03/05/19 20:53	1
Cycloate	ND		66		ug/Kg		03/04/19 09:46	03/05/19 20:53	1
Diazinon	ND		130		ug/Kg		03/04/19 09:46	03/05/19 20:53	1
Dichlorvos	ND		130		ug/Kg		03/04/19 09:46	03/05/19 20:53	1
Dimethoate	ND		130		ug/Kg		03/04/19 09:46	03/05/19 20:53	1
Disulfoton	ND		130		ug/Kg		03/04/19 09:46	03/05/19 20:53	1
EPN	ND		130		ug/Kg		03/04/19 09:46	03/05/19 20:53	1
EPTC	ND		66		ug/Kg		03/04/19 09:46	03/05/19 20:53	1
Ethoprop	ND		66		ug/Kg		03/04/19 09:46	03/05/19 20:53	1
Ethyl Parathion	ND		66		ug/Kg		03/04/19 09:46	03/05/19 20:53	1
Famphur	ND		130		ug/Kg		03/04/19 09:46	03/05/19 20:53	1
Fensulfothion	ND		660		ug/Kg		03/04/19 09:46	03/05/19 20:53	1
Fenthion	ND		66		ug/Kg		03/04/19 09:46	03/05/19 20:53	1
Malathion	ND		66		ug/Kg		03/04/19 09:46	03/05/19 20:53	1
Methyl parathion	ND		66		ug/Kg		03/04/19 09:46	03/05/19 20:53	1
Mevinphos	ND		130		ug/Kg		03/04/19 09:46	03/05/19 20:53	1
Molinate	ND		66		ug/Kg		03/04/19 09:46	03/05/19 20:53	1
Pebulate	ND		66		ug/Kg		03/04/19 09:46	03/05/19 20:53	1
Phorate	ND		66		ug/Kg		03/04/19 09:46	03/05/19 20:53	1
Prometon	ND		66		ug/Kg		03/04/19 09:46	03/05/19 20:53	1
Prometryn	ND		66		ug/Kg		03/04/19 09:46	03/05/19 20:53	1
Propazine	ND		66		ug/Kg		03/04/19 09:46	03/05/19 20:53	1
Ronnel	ND		66		ug/Kg		03/04/19 09:46	03/05/19 20:53	1
Simazine	ND		66		ug/Kg		03/04/19 09:46	03/05/19 20:53	1
Simetryn	ND		66		ug/Kg		03/04/19 09:46	03/05/19 20:53	1
Stirophos	ND		66		ug/Kg		03/04/19 09:46	03/05/19 20:53	1
Sulfotepp	ND		66		ug/Kg		03/04/19 09:46	03/05/19 20:53	1
Terbutryn	ND		66		ug/Kg		03/04/19 09:46	03/05/19 20:53	1
Thionazin	ND		66		ug/Kg		03/04/19 09:46	03/05/19 20:53	1
Tokuthion	ND		66		ug/Kg		03/04/19 09:46	03/05/19 20:53	1
Trichloronate	ND		660		ug/Kg		03/04/19 09:46	03/05/19 20:53	1
Vernolate	ND		66		ug/Kg		03/04/19 09:46	03/05/19 20:53	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Triphenylphosphate	64		30 - 164	03/04/19 09:46	03/05/19 20:53	1

Lab Sample ID: LCS 400-432007/4-A
Matrix: Solid
Analysis Batch: 432209

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 432007

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Ametryn	333	293		ug/Kg		88	40 - 140
Atrazine	333	273		ug/Kg		82	18 - 131

TestAmerica Spokane

QC Sample Results

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014001

TestAmerica Job ID: 590-10409-2

Method: 8270D - Pesticides by GC/MS (Continued)

Lab Sample ID: LCS 400-432007/4-A
Matrix: Solid
Analysis Batch: 432209

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 432007

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bolstar	667	511		ug/Kg		77	40 - 156
Butylate	331	183		ug/Kg		55	40 - 140
Chlorpyrifos	667	480		ug/Kg		72	22 - 130
Coumaphos	667	537	J	ug/Kg		81	51 - 147
Cycloate	332	261		ug/Kg		78	40 - 140
Diazinon	667	544		ug/Kg		82	41 - 130
Dichlorvos	667	657		ug/Kg		98	10 - 130
Dimethoate	667	618		ug/Kg		93	38 - 130
Disulfoton	667	471		ug/Kg		71	10 - 134
EPN	667	577		ug/Kg		87	48 - 124
EPTC	334	131	*	ug/Kg		39	40 - 140
Ethoprop	667	545		ug/Kg		82	40 - 140
Ethyl Parathion	667	537		ug/Kg		80	24 - 151
Famphur	667	618		ug/Kg		93	10 - 130
Fensulfothion	667	594	J	ug/Kg		89	43 - 145
Fenthion	667	473		ug/Kg		71	10 - 130
Malathion	667	535		ug/Kg		80	10 - 141
Methyl parathion	667	547		ug/Kg		82	36 - 149
Mevinphos	667	540		ug/Kg		81	40 - 140
Molinate	333	250		ug/Kg		75	40 - 140
Pebulate	333	178		ug/Kg		53	40 - 140
Phorate	667	569		ug/Kg		85	36 - 130
Prometon	333	343		ug/Kg		103	40 - 140
Prometryn	333	298		ug/Kg		89	40 - 140
Propazine	333	298		ug/Kg		89	40 - 140
Ronnel	667	453		ug/Kg		68	40 - 140
Simazine	333	352		ug/Kg		105	10 - 181
Simetryn	333	302		ug/Kg		91	30 - 130
Stirophos	667	573		ug/Kg		86	36 - 130
Sulfotepp	667	364		ug/Kg		55	13 - 171
Terbutryn	333	321		ug/Kg		96	40 - 140
Thionazin	670	566		ug/Kg		85	10 - 130
Tokuthion	667	404		ug/Kg		61	14 - 130
Trichloronate	667	454	J	ug/Kg		68	49 - 161
Vernolate	335	150		ug/Kg		45	40 - 140

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Triphenylphosphate	60		30 - 164

Method: 8081B - Organochlorine Pesticides (GC)

Lab Sample ID: MB 400-431997/1-A
Matrix: Solid
Analysis Batch: 432212

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 431997

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		1.7		ug/Kg		03/04/19 09:24	03/05/19 23:21	1
4,4'-DDE	ND		1.7		ug/Kg		03/04/19 09:24	03/05/19 23:21	1

TestAmerica Spokane

QC Sample Results

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014001

TestAmerica Job ID: 590-10409-2

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: MB 400-431997/1-A
Matrix: Solid
Analysis Batch: 432212

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 431997

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDT	ND		1.7		ug/Kg		03/04/19 09:24	03/05/19 23:21	1
Aldrin	ND		1.7		ug/Kg		03/04/19 09:24	03/05/19 23:21	1
alpha-BHC	ND		1.7		ug/Kg		03/04/19 09:24	03/05/19 23:21	1
beta-BHC	ND		1.7		ug/Kg		03/04/19 09:24	03/05/19 23:21	1
cis-Chlordane	ND		1.7		ug/Kg		03/04/19 09:24	03/05/19 23:21	1
delta-BHC	ND		1.7		ug/Kg		03/04/19 09:24	03/05/19 23:21	1
Dieldrin	ND		1.7		ug/Kg		03/04/19 09:24	03/05/19 23:21	1
Endosulfan I	ND		1.7		ug/Kg		03/04/19 09:24	03/05/19 23:21	1
Endosulfan II	ND		1.7		ug/Kg		03/04/19 09:24	03/05/19 23:21	1
Endosulfan sulfate	ND		1.7		ug/Kg		03/04/19 09:24	03/05/19 23:21	1
Endrin	ND		1.7		ug/Kg		03/04/19 09:24	03/05/19 23:21	1
Endrin aldehyde	ND		1.7		ug/Kg		03/04/19 09:24	03/05/19 23:21	1
Endrin ketone	ND		1.7		ug/Kg		03/04/19 09:24	03/05/19 23:21	1
gamma-BHC (Lindane)	ND		1.7		ug/Kg		03/04/19 09:24	03/05/19 23:21	1
Heptachlor	ND		1.7		ug/Kg		03/04/19 09:24	03/05/19 23:21	1
Heptachlor epoxide	ND		1.7		ug/Kg		03/04/19 09:24	03/05/19 23:21	1
Methoxychlor	ND		1.7		ug/Kg		03/04/19 09:24	03/05/19 23:21	1
Toxaphene	ND		100		ug/Kg		03/04/19 09:24	03/05/19 23:21	1
trans-Chlordane	ND		1.7		ug/Kg		03/04/19 09:24	03/05/19 23:21	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	94		26 - 129	03/04/19 09:24	03/05/19 23:21	1
Tetrachloro-m-xylene	70		31 - 122	03/04/19 09:24	03/05/19 23:21	1

Lab Sample ID: LCS 400-431997/2-A
Matrix: Solid
Analysis Batch: 432212

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 431997

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
4,4'-DDD	33.3	22.9		ug/Kg		69	46 - 152
4,4'-DDE	33.3	31.5		ug/Kg		94	49 - 148
4,4'-DDT	33.3	22.6		ug/Kg		68	44 - 168
Aldrin	33.3	33.8		ug/Kg		101	47 - 137
alpha-BHC	33.3	31.7		ug/Kg		95	50 - 148
beta-BHC	33.3	27.3		ug/Kg		82	46 - 133
cis-Chlordane	33.3	27.7		ug/Kg		83	35 - 134
delta-BHC	33.3	26.4		ug/Kg		79	10 - 162
Dieldrin	33.3	26.9		ug/Kg		81	41 - 164
Endosulfan I	33.3	27.8		ug/Kg		83	50 - 141
Endosulfan II	33.3	20.6		ug/Kg		62	47 - 148
Endosulfan sulfate	33.3	23.6		ug/Kg		71	50 - 145
Endrin	33.3	27.4		ug/Kg		82	45 - 159
Endrin aldehyde	33.3	25.1		ug/Kg		75	10 - 190
Endrin ketone	33.3	22.6		ug/Kg		68	48 - 159
gamma-BHC (Lindane)	33.3	26.2		ug/Kg		79	50 - 148
Heptachlor	33.3	22.4		ug/Kg		67	46 - 158
Heptachlor epoxide	33.3	29.9		ug/Kg		90	49 - 148
Methoxychlor	33.3	22.6		ug/Kg		68	40 - 164

TestAmerica Spokane

QC Sample Results

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014001

TestAmerica Job ID: 590-10409-2

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCS 400-431997/2-A
Matrix: Solid
Analysis Batch: 432212

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 431997

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
trans-Chlordane	33.3	26.4		ug/Kg		79	39 - 146
Surrogate							
	%Recovery	Qualifier	Limits				
DCB Decachlorobiphenyl	85		26 - 129				
Tetrachloro-m-xylene	76		31 - 122				

Lab Sample ID: 590-10409-2 MS
Matrix: Solid
Analysis Batch: 432212

Client Sample ID: TP-67(6)
Prep Type: Total/NA
Prep Batch: 431997

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
4,4'-DDD	ND	H	43.4	26.1		ug/Kg	☼	60	13 - 146
4,4'-DDE	ND	H	43.4	35.9		ug/Kg	☼	83	23 - 143
4,4'-DDT	ND	H	43.4	24.6		ug/Kg	☼	57	10 - 160
Aldrin	ND	H	43.4	36.4		ug/Kg	☼	84	10 - 154
alpha-BHC	ND	H	43.4	33.7		ug/Kg	☼	78	15 - 152
beta-BHC	ND	H	43.4	29.6		ug/Kg	☼	68	10 - 160
cis-Chlordane	ND	H	43.4	30.0		ug/Kg	☼	69	10 - 160
delta-BHC	ND	H	43.4	29.0		ug/Kg	☼	67	10 - 160
Dieldrin	ND	H	43.4	30.2		ug/Kg	☼	70	10 - 160
Endosulfan I	ND	H	43.4	30.7		ug/Kg	☼	71	10 - 160
Endosulfan II	ND	H	43.4	22.6		ug/Kg	☼	52	10 - 160
Endosulfan sulfate	ND	H	43.4	25.7		ug/Kg	☼	59	27 - 143
Endrin	ND	H	43.4	30.4		ug/Kg	☼	70	20 - 156
Endrin aldehyde	ND	H	43.4	28.2		ug/Kg	☼	65	14 - 160
Endrin ketone	ND	H F1	43.4	ND	F1	ug/Kg	☼	0	31 - 155
gamma-BHC (Lindane)	ND	H	43.4	27.1		ug/Kg	☼	63	26 - 142
Heptachlor	ND	H	43.4	22.6		ug/Kg	☼	52	10 - 160
Heptachlor epoxide	ND	H F2	43.4	33.4		ug/Kg	☼	77	10 - 160
Methoxychlor	ND	H	43.4	22.8		ug/Kg	☼	52	10 - 160
trans-Chlordane	ND	H	43.4	29.1		ug/Kg	☼	67	10 - 160
Surrogate									
	%Recovery	Qualifier	Limits						
DCB Decachlorobiphenyl	86		26 - 129						
Tetrachloro-m-xylene	58		31 - 122						

Lab Sample ID: 590-10409-2 MSD
Matrix: Solid
Analysis Batch: 432212

Client Sample ID: TP-67(6)
Prep Type: Total/NA
Prep Batch: 431997

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
4,4'-DDD	ND	H	43.4	23.3		ug/Kg	☼	54	13 - 146	11	88
4,4'-DDE	ND	H	43.4	35.6		ug/Kg	☼	82	23 - 143	1	86
4,4'-DDT	ND	H	43.4	19.5		ug/Kg	☼	45	10 - 160	23	43
Aldrin	ND	H	43.4	34.3		ug/Kg	☼	79	10 - 154	6	60
alpha-BHC	ND	H	43.4	29.8		ug/Kg	☼	69	15 - 152	12	60
beta-BHC	ND	H	43.4	26.5		ug/Kg	☼	61	10 - 160	11	60
cis-Chlordane	ND	H	43.4	27.3		ug/Kg	☼	63	10 - 160	9	60

TestAmerica Spokane

QC Sample Results

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014001

TestAmerica Job ID: 590-10409-2

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 590-10409-2 MSD
Matrix: Solid
Analysis Batch: 432212

Client Sample ID: TP-67(6)
Prep Type: Total/NA
Prep Batch: 431997

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	Limits	RPD	Limit
	Result	Qualifier		Result	Qualifier						
delta-BHC	ND	H	43.4	26.2		ug/Kg	☼	60	10 - 160	10	60
Dieldrin	ND	H	43.4	27.8		ug/Kg	☼	64	10 - 160	8	60
Endosulfan I	ND	H	43.4	26.6		ug/Kg	☼	61	10 - 160	14	60
Endosulfan II	ND	H	43.4	19.2		ug/Kg	☼	44	10 - 160	17	49
Endosulfan sulfate	ND	H	43.4	21.7		ug/Kg	☼	50	27 - 143	17	60
Endrin	ND	H	43.4	26.8		ug/Kg	☼	62	20 - 156	13	60
Endrin aldehyde	ND	H	43.4	24.1		ug/Kg	☼	56	14 - 160	15	37
Endrin ketone	ND	H F1	43.4	20.2		ug/Kg	☼	46	31 - 155	NC	60
gamma-BHC (Lindane)	ND	H	43.4	22.1		ug/Kg	☼	51	26 - 142	21	60
Heptachlor	ND	H	43.4	19.8		ug/Kg	☼	46	10 - 160	13	60
Heptachlor epoxide	ND	H F2	43.4	16.0	F2	ug/Kg	☼	37	10 - 160	70	60
Methoxychlor	ND	H	43.4	18.1		ug/Kg	☼	42	10 - 160	23	47
trans-Chlordane	ND	H	43.4	25.8		ug/Kg	☼	59	10 - 160	12	60
MSD MSD											
Surrogate	%Recovery	Qualifier	Limits								
DCB Decachlorobiphenyl	78		26 - 129								
Tetrachloro-m-xylene	52		31 - 122								

Method: 8151A - Herbicides (GC)

Lab Sample ID: MB 400-432038/1-A
Matrix: Solid
Analysis Batch: 432158

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 432038

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
2,4-D	ND		0.20		mg/Kg		03/04/19 12:48	03/05/19 20:23	1
Dinoseb	ND		0.20		mg/Kg		03/04/19 12:48	03/05/19 20:23	1
Silvex (2,4,5-TP)	ND		0.040		mg/Kg		03/04/19 12:48	03/05/19 20:23	1
2,4,5-T	ND		0.040		mg/Kg		03/04/19 12:48	03/05/19 20:23	1
MB MB									
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
2,4-Dichlorophenylacetic acid	64		10 - 150			03/04/19 12:48	03/05/19 20:23	1	

Lab Sample ID: LCS 400-432038/2-A
Matrix: Solid
Analysis Batch: 432158

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 432038

Analyte	Spike	LCS	LCS	Unit	D	%Rec	Limits
		Result	Qualifier				
2,4-D	0.0836	0.0614	J	mg/Kg		73	34 - 120
Dinoseb	0.0845	0.0473	J	mg/Kg		56	10 - 120
Silvex (2,4,5-TP)	0.0834	0.0562		mg/Kg		67	34 - 120
2,4,5-T	0.0841	0.0573		mg/Kg		68	40 - 120
LCS LCS							
Surrogate	%Recovery	Qualifier	Limits				
2,4-Dichlorophenylacetic acid	67		10 - 150				

TestAmerica Spokane

Lab Chronicle

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014001

TestAmerica Job ID: 590-10409-2

Client Sample ID: TP-66(6)

Date Collected: 02/12/19 10:00

Date Received: 02/12/19 11:35

Lab Sample ID: 590-10409-1

Matrix: Solid

Percent Solids: 77.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.34 g	1.0 mL	432007	03/04/19 09:46	KLR	TAL PEN
Total/NA	Analysis	8270D		1			432209	03/05/19 23:46	KJA	TAL PEN
Total/NA	Prep	3546			15.40 g	5.0 mL	431997	03/04/19 09:24	KLR	TAL PEN
Total/NA	Analysis	8081B		1			432212	03/06/19 01:22	DS	TAL PEN
Total/NA	Prep	8151A			30.08 g	10.0 mL	432038	03/04/19 13:11	KLR	TAL PEN
Total/NA	Analysis	8151A		1			432568	03/07/19 22:01	DS	TAL PEN

Client Sample ID: TP-67(6)

Date Collected: 02/12/19 10:15

Date Received: 02/12/19 11:35

Lab Sample ID: 590-10409-2

Matrix: Solid

Percent Solids: 75.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.04 g	1.0 mL	432007	03/04/19 09:46	KLR	TAL PEN
Total/NA	Analysis	8270D		1			432209	03/06/19 00:11	KJA	TAL PEN
Total/NA	Prep	3546			15.29 g	5.0 mL	431997	03/04/19 09:24	KLR	TAL PEN
Total/NA	Analysis	8081B		1			432212	03/06/19 01:52	DS	TAL PEN
Total/NA	Prep	8151A			30.04 g	10.0 mL	432038	03/04/19 13:11	KLR	TAL PEN
Total/NA	Analysis	8151A		1			432568	03/07/19 22:33	DS	TAL PEN

Client Sample ID: TP-68(6)

Date Collected: 02/12/19 10:30

Date Received: 02/12/19 11:35

Lab Sample ID: 590-10409-3

Matrix: Solid

Percent Solids: 75.1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.11 g	1.0 mL	432007	03/04/19 09:46	KLR	TAL PEN
Total/NA	Analysis	8270D		1			432424	03/07/19 10:13	KJA	TAL PEN
Total/NA	Prep	3546			15.36 g	5.0 mL	431997	03/04/19 09:24	KLR	TAL PEN
Total/NA	Analysis	8081B		1			432212	03/06/19 02:22	DS	TAL PEN
Total/NA	Prep	8151A			30.27 g	10.0 mL	432038	03/04/19 13:11	KLR	TAL PEN
Total/NA	Analysis	8151A		1			432568	03/07/19 23:06	DS	TAL PEN

Laboratory References:

TAL PEN = TestAmerica Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

Accreditation/Certification Summary

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014001

TestAmerica Job ID: 590-10409-2

Laboratory: TestAmerica Spokane

The accreditations/certifications listed below are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Washington	State Program	10	C569	01-06-20

Laboratory: TestAmerica Pensacola

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Alabama	State Program	4	40150	06-30-19
ANAB	ISO/IEC 17025		L2471	02-22-20
Arizona	State Program	9	AZ0710	01-12-20
Arkansas DEQ	State Program	6	88-0689	09-01-19
California	State Program	9	2510	06-30-19
Florida	NELAP	4	E81010	06-30-19
Georgia	State Program	4	E81010 (FL)	06-30-19
Illinois	NELAP	5	200041	10-09-19
Iowa	State Program	7	367	08-01-20
Kansas	NELAP	7	E-10253	10-31-19
Kentucky (UST)	State Program	4	53	06-30-19
Kentucky (WW)	State Program	4	98030	12-31-19
Louisiana	NELAP	6	30976	06-30-19
Louisiana (DW)	NELAP	6	LA017	12-31-19
Maryland	State Program	3	233	09-30-19
Massachusetts	State Program	1	M-FL094	06-30-19
Michigan	State Program	5	9912	06-30-19
New Jersey	NELAP	2	FL006	06-30-19
North Carolina (WW/SW)	State Program	4	314	12-31-19
Oklahoma	State Program	6	9810	08-31-19
Pennsylvania	NELAP	3	68-00467	01-31-20
Rhode Island	State Program	1	LAO00307	12-30-19
South Carolina	State Program	4	96026	06-30-19
Tennessee	State Program	4	TN02907	06-30-19
Texas	NELAP	6	T104704286-18-15	09-30-19
US Fish & Wildlife	Federal		LE058448-0	07-31-19
USDA	Federal		P330-18-00148	05-17-21
Virginia	NELAP	3	460166	06-14-19
Washington	State Program	10	C915	05-15-19
West Virginia DEP	State Program	3	136	07-31-19

Method Summary

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014001

TestAmerica Job ID: 590-10409-2

Method	Method Description	Protocol	Laboratory
8270D	Pesticides by GC/MS	SW846	TAL PEN
8081B	Organochlorine Pesticides (GC)	SW846	TAL PEN
8151A	Herbicides (GC)	SW846	TAL PEN
3546	Microwave Extraction	SW846	TAL PEN
8151A	Extraction (Herbicides)	SW846	TAL PEN

Protocol References:

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

Laboratory References:

TAL PEN = TestAmerica Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001



Login Sample Receipt Checklist

Client: Hart Crowser, Inc.

Job Number: 590-10409-2

Login Number: 10409

List Source: TestAmerica Spokane

List Number: 1

Creator: Arrington, Randee E

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	
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	



Login Sample Receipt Checklist

Client: Hart Crowser, Inc.

Job Number: 590-10409-2

Login Number: 10409
List Number: 2
Creator: Conrady, Hank W

List Source: TestAmerica Pensacola
List Creation: 03/02/19 01:48 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
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	
Cooler Temperature is recorded.	True	4.5°C IR-8
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.	True	
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").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



ANALYTICAL REPORT

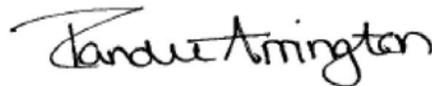
Eurofins TestAmerica, Spokane
11922 East 1st Ave
Spokane, WA 99206
Tel: (509)924-9200

Laboratory Job ID: 590-10868-1
Client Project/Site: CVSD/15014001

For:

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

Attn: John Haney



*Authorized for release by:
5/6/2019 12:22:56 PM*

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

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



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Case Narrative

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014001

Job ID: 590-10868-1

Job ID: 590-10868-1

Laboratory: Eurofins TestAmerica, Spokane

Narrative

Receipt

The samples were received on 4/26/2019 10:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.2° C.

Receipt Exceptions

The following sample was listed on the Chain of Custody (COC); however, no sample was received: TP-19(36) (590-10868-39). The client was notified and instructed the laboratory to cancel the sample.

GC/MS Semi VOA

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

Metals

Method 6010C: The matrix spike / matrix spike duplicate / sample duplicate (MS/MSD/DUP) precision for preparation batch 590-21935 and analytical batch 590-22021 was outside control limits. Sample non-homogeneity is suspected because the associated laboratory control sample(LCS) precision was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or 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: CVSD/15014001

Job ID: 590-10868-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
590-10868-1	B-3(0-6)	Solid	04/25/19 10:50	04/26/19 10:30
590-10868-3	B-1(0-6)	Solid	04/25/19 10:55	04/26/19 10:30
590-10868-5	B-4(0-6)	Solid	04/25/19 11:00	04/26/19 10:30
590-10868-7	B-2(0-6)	Solid	04/25/19 11:10	04/26/19 10:30
590-10868-9	B-5(0-6)	Solid	04/25/19 11:35	04/26/19 10:30
590-10868-11	B-6(0-6)	Solid	04/25/19 11:40	04/26/19 10:30
590-10868-13	B-7(0-6)	Solid	04/25/19 12:00	04/26/19 10:30
590-10868-15	B-8(0-6)	Solid	04/25/19 12:10	04/26/19 10:30
590-10868-17	B-14(0-6)	Solid	04/25/19 12:20	04/26/19 10:30
590-10868-20	B-16(0-14)	Solid	04/25/19 12:30	04/26/19 10:30
590-10868-22	B-17(0-6)	Solid	04/25/19 12:40	04/26/19 10:30
590-10868-24	B-18(0-6)	Solid	04/25/19 13:25	04/26/19 10:30
590-10868-27	B-19(0-6)	Solid	04/25/19 13:40	04/26/19 10:30
590-10868-29	B-15(0-6)	Solid	04/25/19 13:50	04/26/19 10:30
590-10868-31	B-11(36)	Solid	04/25/19 14:05	04/26/19 10:30
590-10868-32	B-9(36)	Solid	04/25/19 14:06	04/26/19 10:30
590-10868-34	B-10(36)	Solid	04/25/19 14:20	04/26/19 10:30
590-10868-35	B-12(96)	Solid	04/25/19 14:25	04/26/19 10:30
590-10868-36	B-13(42)	Solid	04/25/19 14:45	04/26/19 10:30
590-10868-40	TP-41(24-36)	Solid	04/25/19 15:15	04/26/19 10:30
590-10868-41	TP-53(24-36)	Solid	04/25/19 15:20	04/26/19 10:30
590-10868-42	TP-52(24-36)	Solid	04/25/19 15:30	04/26/19 10:30
590-10868-43	TP-54(24-36)	Solid	04/25/19 15:40	04/26/19 10:30
590-10868-44	TP-55(24-36)	Solid	04/25/19 15:45	04/26/19 10:30
590-10868-45	TP-56(24-36)	Solid	04/25/19 16:00	04/26/19 10:30
590-10868-46	TP-39(36)	Solid	04/25/19 15:10	04/26/19 10:30

Definitions/Glossary

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014001

Job ID: 590-10868-1

Qualifiers

Metals

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
F3	Duplicate RPD exceeds the control limit

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	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: CVSD/15014001

Job ID: 590-10868-1

Client Sample ID: B-3(0-6)

Lab Sample ID: 590-10868-1

Date Collected: 04/25/19 10:50

Matrix: Solid

Date Received: 04/26/19 10:30

Percent Solids: 90.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		11		ug/Kg	☼	05/02/19 10:10	05/02/19 13:39	1
2-Methylnaphthalene	ND		11		ug/Kg	☼	05/02/19 10:10	05/02/19 13:39	1
1-Methylnaphthalene	ND		11		ug/Kg	☼	05/02/19 10:10	05/02/19 13:39	1
Acenaphthylene	ND		11		ug/Kg	☼	05/02/19 10:10	05/02/19 13:39	1
Acenaphthene	ND		11		ug/Kg	☼	05/02/19 10:10	05/02/19 13:39	1
Fluorene	ND		11		ug/Kg	☼	05/02/19 10:10	05/02/19 13:39	1
Phenanthrene	ND		11		ug/Kg	☼	05/02/19 10:10	05/02/19 13:39	1
Anthracene	ND		11		ug/Kg	☼	05/02/19 10:10	05/02/19 13:39	1
Fluoranthene	ND		11		ug/Kg	☼	05/02/19 10:10	05/02/19 13:39	1
Pyrene	ND		11		ug/Kg	☼	05/02/19 10:10	05/02/19 13:39	1
Benzo[a]anthracene	ND		11		ug/Kg	☼	05/02/19 10:10	05/02/19 13:39	1
Chrysene	ND		11		ug/Kg	☼	05/02/19 10:10	05/02/19 13:39	1
Benzo[b]fluoranthene	ND		11		ug/Kg	☼	05/02/19 10:10	05/02/19 13:39	1
Benzo[k]fluoranthene	ND		11		ug/Kg	☼	05/02/19 10:10	05/02/19 13:39	1
Benzo[a]pyrene	ND		11		ug/Kg	☼	05/02/19 10:10	05/02/19 13:39	1
Indeno[1,2,3-cd]pyrene	ND		11		ug/Kg	☼	05/02/19 10:10	05/02/19 13:39	1
Dibenz(a,h)anthracene	ND		11		ug/Kg	☼	05/02/19 10:10	05/02/19 13:39	1
Benzo[g,h,i]perylene	ND		11		ug/Kg	☼	05/02/19 10:10	05/02/19 13:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	75		31 - 120	05/02/19 10:10	05/02/19 13:39	1
2-Fluorobiphenyl (Surr)	83		46 - 120	05/02/19 10:10	05/02/19 13:39	1
p-Terphenyl-d14	108		61 - 136	05/02/19 10:10	05/02/19 13:39	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	22	F1	3.3		mg/Kg	☼	04/29/19 09:52	05/03/19 10:08	1

Client Sample ID: B-1(0-6)

Lab Sample ID: 590-10868-3

Date Collected: 04/25/19 10:55

Matrix: Solid

Date Received: 04/26/19 10:30

Percent Solids: 88.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		11		ug/Kg	☼	05/02/19 10:10	05/02/19 14:05	1
2-Methylnaphthalene	ND		11		ug/Kg	☼	05/02/19 10:10	05/02/19 14:05	1
1-Methylnaphthalene	ND		11		ug/Kg	☼	05/02/19 10:10	05/02/19 14:05	1
Acenaphthylene	ND		11		ug/Kg	☼	05/02/19 10:10	05/02/19 14:05	1
Acenaphthene	ND		11		ug/Kg	☼	05/02/19 10:10	05/02/19 14:05	1
Fluorene	ND		11		ug/Kg	☼	05/02/19 10:10	05/02/19 14:05	1
Phenanthrene	ND		11		ug/Kg	☼	05/02/19 10:10	05/02/19 14:05	1
Anthracene	ND		11		ug/Kg	☼	05/02/19 10:10	05/02/19 14:05	1
Fluoranthene	19		11		ug/Kg	☼	05/02/19 10:10	05/02/19 14:05	1
Pyrene	23		11		ug/Kg	☼	05/02/19 10:10	05/02/19 14:05	1
Benzo[a]anthracene	14		11		ug/Kg	☼	05/02/19 10:10	05/02/19 14:05	1
Chrysene	22		11		ug/Kg	☼	05/02/19 10:10	05/02/19 14:05	1
Benzo[b]fluoranthene	26		11		ug/Kg	☼	05/02/19 10:10	05/02/19 14:05	1
Benzo[k]fluoranthene	ND		11		ug/Kg	☼	05/02/19 10:10	05/02/19 14:05	1
Benzo[a]pyrene	23		11		ug/Kg	☼	05/02/19 10:10	05/02/19 14:05	1
Indeno[1,2,3-cd]pyrene	14		11		ug/Kg	☼	05/02/19 10:10	05/02/19 14:05	1

Eurofins TestAmerica, Spokane

Client Sample Results

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014001

Job ID: 590-10868-1

Client Sample ID: B-1(0-6)

Lab Sample ID: 590-10868-3

Date Collected: 04/25/19 10:55

Matrix: Solid

Date Received: 04/26/19 10:30

Percent Solids: 88.1

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	ND		11		ug/Kg	☼	05/02/19 10:10	05/02/19 14:05	1
Benzo[g,h,i]perylene	18		11		ug/Kg	☼	05/02/19 10:10	05/02/19 14:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	81		31 - 120				05/02/19 10:10	05/02/19 14:05	1
2-Fluorobiphenyl (Surr)	86		46 - 120				05/02/19 10:10	05/02/19 14:05	1
p-Terphenyl-d14	103		61 - 136				05/02/19 10:10	05/02/19 14:05	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	1500		3.4		mg/Kg	☼	04/29/19 09:52	05/03/19 10:31	1

Client Sample ID: B-4(0-6)

Lab Sample ID: 590-10868-5

Date Collected: 04/25/19 11:00

Matrix: Solid

Date Received: 04/26/19 10:30

Percent Solids: 85.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		12		ug/Kg	☼	05/02/19 10:10	05/02/19 14:31	1
2-Methylnaphthalene	ND		12		ug/Kg	☼	05/02/19 10:10	05/02/19 14:31	1
1-Methylnaphthalene	ND		12		ug/Kg	☼	05/02/19 10:10	05/02/19 14:31	1
Acenaphthylene	ND		12		ug/Kg	☼	05/02/19 10:10	05/02/19 14:31	1
Acenaphthene	ND		12		ug/Kg	☼	05/02/19 10:10	05/02/19 14:31	1
Fluorene	ND		12		ug/Kg	☼	05/02/19 10:10	05/02/19 14:31	1
Phenanthrene	ND		12		ug/Kg	☼	05/02/19 10:10	05/02/19 14:31	1
Anthracene	ND		12		ug/Kg	☼	05/02/19 10:10	05/02/19 14:31	1
Fluoranthene	ND		12		ug/Kg	☼	05/02/19 10:10	05/02/19 14:31	1
Pyrene	ND		12		ug/Kg	☼	05/02/19 10:10	05/02/19 14:31	1
Benzo[a]anthracene	ND		12		ug/Kg	☼	05/02/19 10:10	05/02/19 14:31	1
Chrysene	ND		12		ug/Kg	☼	05/02/19 10:10	05/02/19 14:31	1
Benzo[b]fluoranthene	14		12		ug/Kg	☼	05/02/19 10:10	05/02/19 14:31	1
Benzo[k]fluoranthene	ND		12		ug/Kg	☼	05/02/19 10:10	05/02/19 14:31	1
Benzo[a]pyrene	12		12		ug/Kg	☼	05/02/19 10:10	05/02/19 14:31	1
Indeno[1,2,3-cd]pyrene	ND		12		ug/Kg	☼	05/02/19 10:10	05/02/19 14:31	1
Dibenz(a,h)anthracene	ND		12		ug/Kg	☼	05/02/19 10:10	05/02/19 14:31	1
Benzo[g,h,i]perylene	ND		12		ug/Kg	☼	05/02/19 10:10	05/02/19 14:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	80		31 - 120				05/02/19 10:10	05/02/19 14:31	1
2-Fluorobiphenyl (Surr)	84		46 - 120				05/02/19 10:10	05/02/19 14:31	1
p-Terphenyl-d14	104		61 - 136				05/02/19 10:10	05/02/19 14:31	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	1100		3.5		mg/Kg	☼	04/29/19 09:52	05/03/19 10:35	1

Client Sample Results

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014001

Job ID: 590-10868-1

Client Sample ID: B-2(0-6)

Lab Sample ID: 590-10868-7

Date Collected: 04/25/19 11:10

Matrix: Solid

Date Received: 04/26/19 10:30

Percent Solids: 83.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	17		11		ug/Kg	☼	05/02/19 10:10	05/02/19 14:58	1
2-Methylnaphthalene	ND		11		ug/Kg	☼	05/02/19 10:10	05/02/19 14:58	1
1-Methylnaphthalene	ND		11		ug/Kg	☼	05/02/19 10:10	05/02/19 14:58	1
Acenaphthylene	ND		11		ug/Kg	☼	05/02/19 10:10	05/02/19 14:58	1
Acenaphthene	80		11		ug/Kg	☼	05/02/19 10:10	05/02/19 14:58	1
Fluorene	44		11		ug/Kg	☼	05/02/19 10:10	05/02/19 14:58	1
Phenanthrene	510		11		ug/Kg	☼	05/02/19 10:10	05/02/19 14:58	1
Anthracene	110		11		ug/Kg	☼	05/02/19 10:10	05/02/19 14:58	1
Fluoranthene	1400		11		ug/Kg	☼	05/02/19 10:10	05/02/19 14:58	1
Pyrene	1300		11		ug/Kg	☼	05/02/19 10:10	05/02/19 14:58	1
Benzo[a]anthracene	1000		11		ug/Kg	☼	05/02/19 10:10	05/02/19 14:58	1
Chrysene	1300		11		ug/Kg	☼	05/02/19 10:10	05/02/19 14:58	1
Benzo[b]fluoranthene	2000		11		ug/Kg	☼	05/02/19 10:10	05/02/19 14:58	1
Benzo[k]fluoranthene	670		11		ug/Kg	☼	05/02/19 10:10	05/02/19 14:58	1
Benzo[a]pyrene	1400		11		ug/Kg	☼	05/02/19 10:10	05/02/19 14:58	1
Indeno[1,2,3-cd]pyrene	950		11		ug/Kg	☼	05/02/19 10:10	05/02/19 14:58	1
Dibenz(a,h)anthracene	300		11		ug/Kg	☼	05/02/19 10:10	05/02/19 14:58	1
Benzo[g,h,i]perylene	1100		11		ug/Kg	☼	05/02/19 10:10	05/02/19 14:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	77		31 - 120	05/02/19 10:10	05/02/19 14:58	1
2-Fluorobiphenyl (Surr)	91		46 - 120	05/02/19 10:10	05/02/19 14:58	1
p-Terphenyl-d14	101		61 - 136	05/02/19 10:10	05/02/19 14:58	1

Client Sample ID: B-5(0-6)

Lab Sample ID: 590-10868-9

Date Collected: 04/25/19 11:35

Matrix: Solid

Date Received: 04/26/19 10:30

Percent Solids: 86.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		12		ug/Kg	☼	05/02/19 10:10	05/02/19 13:12	1
2-Methylnaphthalene	ND		12		ug/Kg	☼	05/02/19 10:10	05/02/19 13:12	1
1-Methylnaphthalene	ND		12		ug/Kg	☼	05/02/19 10:10	05/02/19 13:12	1
Acenaphthylene	ND		12		ug/Kg	☼	05/02/19 10:10	05/02/19 13:12	1
Acenaphthene	ND		12		ug/Kg	☼	05/02/19 10:10	05/02/19 13:12	1
Fluorene	ND		12		ug/Kg	☼	05/02/19 10:10	05/02/19 13:12	1
Phenanthrene	ND		12		ug/Kg	☼	05/02/19 10:10	05/02/19 13:12	1
Anthracene	ND		12		ug/Kg	☼	05/02/19 10:10	05/02/19 13:12	1
Fluoranthene	ND		12		ug/Kg	☼	05/02/19 10:10	05/02/19 13:12	1
Pyrene	ND		12		ug/Kg	☼	05/02/19 10:10	05/02/19 13:12	1
Benzo[a]anthracene	ND		12		ug/Kg	☼	05/02/19 10:10	05/02/19 13:12	1
Chrysene	ND		12		ug/Kg	☼	05/02/19 10:10	05/02/19 13:12	1
Benzo[b]fluoranthene	ND		12		ug/Kg	☼	05/02/19 10:10	05/02/19 13:12	1
Benzo[k]fluoranthene	ND		12		ug/Kg	☼	05/02/19 10:10	05/02/19 13:12	1
Benzo[a]pyrene	ND		12		ug/Kg	☼	05/02/19 10:10	05/02/19 13:12	1
Indeno[1,2,3-cd]pyrene	ND		12		ug/Kg	☼	05/02/19 10:10	05/02/19 13:12	1
Dibenz(a,h)anthracene	ND		12		ug/Kg	☼	05/02/19 10:10	05/02/19 13:12	1
Benzo[g,h,i]perylene	ND		12		ug/Kg	☼	05/02/19 10:10	05/02/19 13:12	1

Eurofins TestAmerica, Spokane

Client Sample Results

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014001

Job ID: 590-10868-1

Client Sample ID: B-5(0-6)

Date Collected: 04/25/19 11:35

Date Received: 04/26/19 10:30

Lab Sample ID: 590-10868-9

Matrix: Solid

Percent Solids: 86.1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	82		31 - 120	05/02/19 10:10	05/02/19 13:12	1
2-Fluorobiphenyl (Surr)	86		46 - 120	05/02/19 10:10	05/02/19 13:12	1
p-Terphenyl-d14	111		61 - 136	05/02/19 10:10	05/02/19 13:12	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	15		3.5		mg/Kg	☼	04/29/19 09:52	05/03/19 10:48	1

Client Sample ID: B-6(0-6)

Date Collected: 04/25/19 11:40

Date Received: 04/26/19 10:30

Lab Sample ID: 590-10868-11

Matrix: Solid

Percent Solids: 75.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		13		ug/Kg	☼	05/02/19 10:10	05/02/19 15:24	1
2-Methylnaphthalene	ND		13		ug/Kg	☼	05/02/19 10:10	05/02/19 15:24	1
1-Methylnaphthalene	ND		13		ug/Kg	☼	05/02/19 10:10	05/02/19 15:24	1
Acenaphthylene	ND		13		ug/Kg	☼	05/02/19 10:10	05/02/19 15:24	1
Acenaphthene	87		13		ug/Kg	☼	05/02/19 10:10	05/02/19 15:24	1
Fluorene	26		13		ug/Kg	☼	05/02/19 10:10	05/02/19 15:24	1
Phenanthrene	490		13		ug/Kg	☼	05/02/19 10:10	05/02/19 15:24	1
Anthracene	110		13		ug/Kg	☼	05/02/19 10:10	05/02/19 15:24	1
Fluoranthene	1200		13		ug/Kg	☼	05/02/19 10:10	05/02/19 15:24	1
Pyrene	1400		13		ug/Kg	☼	05/02/19 10:10	05/02/19 15:24	1
Benzo[a]anthracene	910		13		ug/Kg	☼	05/02/19 10:10	05/02/19 15:24	1
Chrysene	1300		13		ug/Kg	☼	05/02/19 10:10	05/02/19 15:24	1
Benzo[b]fluoranthene	1600		13		ug/Kg	☼	05/02/19 10:10	05/02/19 15:24	1
Benzo[k]fluoranthene	600		13		ug/Kg	☼	05/02/19 10:10	05/02/19 15:24	1
Benzo[a]pyrene	1400		13		ug/Kg	☼	05/02/19 10:10	05/02/19 15:24	1
Indeno[1,2,3-cd]pyrene	840		13		ug/Kg	☼	05/02/19 10:10	05/02/19 15:24	1
Dibenz(a,h)anthracene	280		13		ug/Kg	☼	05/02/19 10:10	05/02/19 15:24	1
Benzo[g,h,i]perylene	980		13		ug/Kg	☼	05/02/19 10:10	05/02/19 15:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	83		31 - 120	05/02/19 10:10	05/02/19 15:24	1
2-Fluorobiphenyl (Surr)	92		46 - 120	05/02/19 10:10	05/02/19 15:24	1
p-Terphenyl-d14	103		61 - 136	05/02/19 10:10	05/02/19 15:24	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	1300		2.5		mg/Kg	☼	04/29/19 09:52	05/03/19 10:52	1

Client Sample ID: B-7(0-6)

Date Collected: 04/25/19 12:00

Date Received: 04/26/19 10:30

Lab Sample ID: 590-10868-13

Matrix: Solid

Percent Solids: 85.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		11		ug/Kg	☼	05/02/19 10:10	05/02/19 15:50	1
2-Methylnaphthalene	ND		11		ug/Kg	☼	05/02/19 10:10	05/02/19 15:50	1
1-Methylnaphthalene	ND		11		ug/Kg	☼	05/02/19 10:10	05/02/19 15:50	1
Acenaphthylene	ND		11		ug/Kg	☼	05/02/19 10:10	05/02/19 15:50	1

Eurofins TestAmerica, Spokane

Client Sample Results

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014001

Job ID: 590-10868-1

Client Sample ID: B-7(0-6)

Date Collected: 04/25/19 12:00

Date Received: 04/26/19 10:30

Lab Sample ID: 590-10868-13

Matrix: Solid

Percent Solids: 85.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		11		ug/Kg	☼	05/02/19 10:10	05/02/19 15:50	1
Fluorene	ND		11		ug/Kg	☼	05/02/19 10:10	05/02/19 15:50	1
Phenanthrene	ND		11		ug/Kg	☼	05/02/19 10:10	05/02/19 15:50	1
Anthracene	ND		11		ug/Kg	☼	05/02/19 10:10	05/02/19 15:50	1
Fluoranthene	20		11		ug/Kg	☼	05/02/19 10:10	05/02/19 15:50	1
Pyrene	25		11		ug/Kg	☼	05/02/19 10:10	05/02/19 15:50	1
Benzo[a]anthracene	16		11		ug/Kg	☼	05/02/19 10:10	05/02/19 15:50	1
Chrysene	22		11		ug/Kg	☼	05/02/19 10:10	05/02/19 15:50	1
Benzo[b]fluoranthene	28		11		ug/Kg	☼	05/02/19 10:10	05/02/19 15:50	1
Benzo[k]fluoranthene	ND		11		ug/Kg	☼	05/02/19 10:10	05/02/19 15:50	1
Benzo[a]pyrene	25		11		ug/Kg	☼	05/02/19 10:10	05/02/19 15:50	1
Indeno[1,2,3-cd]pyrene	16		11		ug/Kg	☼	05/02/19 10:10	05/02/19 15:50	1
Dibenz(a,h)anthracene	ND		11		ug/Kg	☼	05/02/19 10:10	05/02/19 15:50	1
Benzo[g,h,i]perylene	19		11		ug/Kg	☼	05/02/19 10:10	05/02/19 15:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	65		31 - 120				05/02/19 10:10	05/02/19 15:50	1
2-Fluorobiphenyl (Surr)	73		46 - 120				05/02/19 10:10	05/02/19 15:50	1
p-Terphenyl-d14	94		61 - 136				05/02/19 10:10	05/02/19 15:50	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	620		3.5		mg/Kg	☼	04/29/19 09:52	05/03/19 10:55	1

Client Sample ID: B-8(0-6)

Date Collected: 04/25/19 12:10

Date Received: 04/26/19 10:30

Lab Sample ID: 590-10868-15

Matrix: Solid

Percent Solids: 78.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		12		ug/Kg	☼	05/02/19 10:10	05/02/19 16:16	1
2-Methylnaphthalene	ND		12		ug/Kg	☼	05/02/19 10:10	05/02/19 16:16	1
1-Methylnaphthalene	ND		12		ug/Kg	☼	05/02/19 10:10	05/02/19 16:16	1
Acenaphthylene	ND		12		ug/Kg	☼	05/02/19 10:10	05/02/19 16:16	1
Acenaphthene	12		12		ug/Kg	☼	05/02/19 10:10	05/02/19 16:16	1
Fluorene	ND		12		ug/Kg	☼	05/02/19 10:10	05/02/19 16:16	1
Phenanthrene	130		12		ug/Kg	☼	05/02/19 10:10	05/02/19 16:16	1
Anthracene	21		12		ug/Kg	☼	05/02/19 10:10	05/02/19 16:16	1
Fluoranthene	330		12		ug/Kg	☼	05/02/19 10:10	05/02/19 16:16	1
Pyrene	390		12		ug/Kg	☼	05/02/19 10:10	05/02/19 16:16	1
Benzo[a]anthracene	200		12		ug/Kg	☼	05/02/19 10:10	05/02/19 16:16	1
Chrysene	310		12		ug/Kg	☼	05/02/19 10:10	05/02/19 16:16	1
Benzo[b]fluoranthene	350		12		ug/Kg	☼	05/02/19 10:10	05/02/19 16:16	1
Benzo[k]fluoranthene	140		12		ug/Kg	☼	05/02/19 10:10	05/02/19 16:16	1
Benzo[a]pyrene	310		12		ug/Kg	☼	05/02/19 10:10	05/02/19 16:16	1
Indeno[1,2,3-cd]pyrene	180		12		ug/Kg	☼	05/02/19 10:10	05/02/19 16:16	1
Dibenz(a,h)anthracene	62		12		ug/Kg	☼	05/02/19 10:10	05/02/19 16:16	1
Benzo[g,h,i]perylene	230		12		ug/Kg	☼	05/02/19 10:10	05/02/19 16:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	75		31 - 120				05/02/19 10:10	05/02/19 16:16	1

Eurofins TestAmerica, Spokane

Client Sample Results

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014001

Job ID: 590-10868-1

Client Sample ID: B-8(0-6)

Date Collected: 04/25/19 12:10

Date Received: 04/26/19 10:30

Lab Sample ID: 590-10868-15

Matrix: Solid

Percent Solids: 78.8

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	83		46 - 120	05/02/19 10:10	05/02/19 16:16	1
p-Terphenyl-d14	103		61 - 136	05/02/19 10:10	05/02/19 16:16	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	480		3.8		mg/Kg	☼	04/29/19 09:52	05/03/19 10:59	1

Client Sample ID: B-14(0-6)

Date Collected: 04/25/19 12:20

Date Received: 04/26/19 10:30

Lab Sample ID: 590-10868-17

Matrix: Solid

Percent Solids: 78.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		1300		ug/Kg	☼	05/02/19 10:10	05/02/19 16:43	100
2-Methylnaphthalene	ND		1300		ug/Kg	☼	05/02/19 10:10	05/02/19 16:43	100
1-Methylnaphthalene	ND		1300		ug/Kg	☼	05/02/19 10:10	05/02/19 16:43	100
Acenaphthylene	ND		1300		ug/Kg	☼	05/02/19 10:10	05/02/19 16:43	100
Acenaphthene	4000		1300		ug/Kg	☼	05/02/19 10:10	05/02/19 16:43	100
Fluorene	1400		1300		ug/Kg	☼	05/02/19 10:10	05/02/19 16:43	100
Phenanthrene	22000		1300		ug/Kg	☼	05/02/19 10:10	05/02/19 16:43	100
Anthracene	4900		1300		ug/Kg	☼	05/02/19 10:10	05/02/19 16:43	100
Fluoranthene	52000		1300		ug/Kg	☼	05/02/19 10:10	05/02/19 16:43	100
Pyrene	64000		1300		ug/Kg	☼	05/02/19 10:10	05/02/19 16:43	100
Benzo[a]anthracene	46000		1300		ug/Kg	☼	05/02/19 10:10	05/02/19 16:43	100
Chrysene	64000		1300		ug/Kg	☼	05/02/19 10:10	05/02/19 16:43	100
Benzo[b]fluoranthene	70000		1300		ug/Kg	☼	05/02/19 10:10	05/02/19 16:43	100
Benzo[k]fluoranthene	23000		1300		ug/Kg	☼	05/02/19 10:10	05/02/19 16:43	100
Benzo[a]pyrene	72000		1300		ug/Kg	☼	05/02/19 10:10	05/02/19 16:43	100
Indeno[1,2,3-cd]pyrene	33000		1300		ug/Kg	☼	05/02/19 10:10	05/02/19 16:43	100
Dibenz(a,h)anthracene	14000		1300		ug/Kg	☼	05/02/19 10:10	05/02/19 16:43	100
Benzo[g,h,i]perylene	50000		1300		ug/Kg	☼	05/02/19 10:10	05/02/19 16:43	100

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	87		31 - 120	05/02/19 10:10	05/02/19 16:43	100
2-Fluorobiphenyl (Surr)	97		46 - 120	05/02/19 10:10	05/02/19 16:43	100
p-Terphenyl-d14	110		61 - 136	05/02/19 10:10	05/02/19 16:43	100

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	480		3.8		mg/Kg	☼	04/29/19 09:52	05/03/19 11:03	1

Client Sample ID: B-16(0-14)

Date Collected: 04/25/19 12:30

Date Received: 04/26/19 10:30

Lab Sample ID: 590-10868-20

Matrix: Solid

Percent Solids: 70.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	34		14		ug/Kg	☼	05/02/19 10:10	05/02/19 17:09	1
2-Methylnaphthalene	35		14		ug/Kg	☼	05/02/19 10:10	05/02/19 17:09	1
1-Methylnaphthalene	22		14		ug/Kg	☼	05/02/19 10:10	05/02/19 17:09	1
Acenaphthylene	ND		14		ug/Kg	☼	05/02/19 10:10	05/02/19 17:09	1

Eurofins TestAmerica, Spokane

Client Sample Results

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014001

Job ID: 590-10868-1

Client Sample ID: B-16(0-14)

Lab Sample ID: 590-10868-20

Date Collected: 04/25/19 12:30

Matrix: Solid

Date Received: 04/26/19 10:30

Percent Solids: 70.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	240		14		ug/Kg	☼	05/02/19 10:10	05/02/19 17:09	1
Fluorene	84		14		ug/Kg	☼	05/02/19 10:10	05/02/19 17:09	1
Phenanthrene	1700		14		ug/Kg	☼	05/02/19 10:10	05/02/19 17:09	1
Anthracene	370		14		ug/Kg	☼	05/02/19 10:10	05/02/19 17:09	1
Fluoranthene	2600		14		ug/Kg	☼	05/02/19 10:10	05/02/19 17:09	1
Pyrene	4400		140		ug/Kg	☼	05/02/19 10:10	05/05/19 13:13	10
Benzo[a]anthracene	2400		14		ug/Kg	☼	05/02/19 10:10	05/02/19 17:09	1
Chrysene	3000		14		ug/Kg	☼	05/02/19 10:10	05/02/19 17:09	1
Benzo[b]fluoranthene	3400		14		ug/Kg	☼	05/02/19 10:10	05/02/19 17:09	1
Benzo[k]fluoranthene	1200		14		ug/Kg	☼	05/02/19 10:10	05/02/19 17:09	1
Benzo[a]pyrene	3600		14		ug/Kg	☼	05/02/19 10:10	05/02/19 17:09	1
Indeno[1,2,3-cd]pyrene	1800		14		ug/Kg	☼	05/02/19 10:10	05/02/19 17:09	1
Dibenz(a,h)anthracene	660		14		ug/Kg	☼	05/02/19 10:10	05/02/19 17:09	1
Benzo[g,h,i]perylene	2300		14		ug/Kg	☼	05/02/19 10:10	05/02/19 17:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	87		31 - 120	05/02/19 10:10	05/02/19 17:09	1
Nitrobenzene-d5	91		31 - 120	05/02/19 10:10	05/05/19 13:13	10
2-Fluorobiphenyl (Surr)	97		46 - 120	05/02/19 10:10	05/02/19 17:09	1
2-Fluorobiphenyl (Surr)	101		46 - 120	05/02/19 10:10	05/05/19 13:13	10
p-Terphenyl-d14	105		61 - 136	05/02/19 10:10	05/02/19 17:09	1
p-Terphenyl-d14	103		61 - 136	05/02/19 10:10	05/05/19 13:13	10

Client Sample ID: B-17(0-6)

Lab Sample ID: 590-10868-22

Date Collected: 04/25/19 12:40

Matrix: Solid

Date Received: 04/26/19 10:30

Percent Solids: 89.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	1900		1000		ug/Kg	☼	05/02/19 10:10	05/02/19 17:35	100
2-Methylnaphthalene	1100		1000		ug/Kg	☼	05/02/19 10:10	05/02/19 17:35	100
1-Methylnaphthalene	ND		1000		ug/Kg	☼	05/02/19 10:10	05/02/19 17:35	100
Acenaphthylene	ND		1000		ug/Kg	☼	05/02/19 10:10	05/02/19 17:35	100
Acenaphthene	11000		1000		ug/Kg	☼	05/02/19 10:10	05/02/19 17:35	100
Fluorene	3300		1000		ug/Kg	☼	05/02/19 10:10	05/02/19 17:35	100
Phenanthrene	50000		1000		ug/Kg	☼	05/02/19 10:10	05/02/19 17:35	100
Anthracene	13000		1000		ug/Kg	☼	05/02/19 10:10	05/02/19 17:35	100
Fluoranthene	120000		1000		ug/Kg	☼	05/02/19 10:10	05/02/19 17:35	100
Pyrene	130000		1000		ug/Kg	☼	05/02/19 10:10	05/02/19 17:35	100
Benzo[a]anthracene	95000		1000		ug/Kg	☼	05/02/19 10:10	05/02/19 17:35	100
Chrysene	120000		1000		ug/Kg	☼	05/02/19 10:10	05/02/19 17:35	100
Benzo[b]fluoranthene	140000		1000		ug/Kg	☼	05/02/19 10:10	05/02/19 17:35	100
Benzo[k]fluoranthene	66000		1000		ug/Kg	☼	05/02/19 10:10	05/02/19 17:35	100
Benzo[a]pyrene	140000		1000		ug/Kg	☼	05/02/19 10:10	05/02/19 17:35	100
Indeno[1,2,3-cd]pyrene	73000		1000		ug/Kg	☼	05/02/19 10:10	05/02/19 17:35	100
Dibenz(a,h)anthracene	26000		1000		ug/Kg	☼	05/02/19 10:10	05/02/19 17:35	100
Benzo[g,h,i]perylene	80000		1000		ug/Kg	☼	05/02/19 10:10	05/02/19 17:35	100

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	87		31 - 120	05/02/19 10:10	05/02/19 17:35	100

Eurofins TestAmerica, Spokane

Client Sample Results

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014001

Job ID: 590-10868-1

Client Sample ID: B-17(0-6)

Date Collected: 04/25/19 12:40

Date Received: 04/26/19 10:30

Lab Sample ID: 590-10868-22

Matrix: Solid

Percent Solids: 89.4

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	99		46 - 120	05/02/19 10:10	05/02/19 17:35	100
p-Terphenyl-d14	110		61 - 136	05/02/19 10:10	05/02/19 17:35	100

Client Sample ID: B-18(0-6)

Date Collected: 04/25/19 13:25

Date Received: 04/26/19 10:30

Lab Sample ID: 590-10868-24

Matrix: Solid

Percent Solids: 85.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	250		120		ug/Kg	☼	05/02/19 10:10	05/05/19 13:39	10
2-Methylnaphthalene	220		120		ug/Kg	☼	05/02/19 10:10	05/05/19 13:39	10
1-Methylnaphthalene	170		120		ug/Kg	☼	05/02/19 10:10	05/05/19 13:39	10
Acenaphthylene	ND		120		ug/Kg	☼	05/02/19 10:10	05/05/19 13:39	10
Acenaphthene	1700		120		ug/Kg	☼	05/02/19 10:10	05/05/19 13:39	10
Fluorene	580		120		ug/Kg	☼	05/02/19 10:10	05/05/19 13:39	10
Phenanthrene	8700		120		ug/Kg	☼	05/02/19 10:10	05/05/19 13:39	10
Anthracene	2000		120		ug/Kg	☼	05/02/19 10:10	05/05/19 13:39	10
Fluoranthene	18000		120		ug/Kg	☼	05/02/19 10:10	05/05/19 13:39	10
Pyrene	23000		120		ug/Kg	☼	05/02/19 10:10	05/05/19 13:39	10
Benzo[a]anthracene	16000		120		ug/Kg	☼	05/02/19 10:10	05/05/19 13:39	10
Chrysene	20000		120		ug/Kg	☼	05/02/19 10:10	05/05/19 13:39	10
Benzo[b]fluoranthene	25000		120		ug/Kg	☼	05/02/19 10:10	05/05/19 13:39	10
Benzo[k]fluoranthene	11000		120		ug/Kg	☼	05/02/19 10:10	05/05/19 13:39	10
Benzo[a]pyrene	24000		120		ug/Kg	☼	05/02/19 10:10	05/05/19 13:39	10
Indeno[1,2,3-cd]pyrene	13000		120		ug/Kg	☼	05/02/19 10:10	05/05/19 13:39	10
Dibenz(a,h)anthracene	4500		120		ug/Kg	☼	05/02/19 10:10	05/05/19 13:39	10
Benzo[g,h,i]perylene	16000		120		ug/Kg	☼	05/02/19 10:10	05/05/19 13:39	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	85		31 - 120	05/02/19 10:10	05/05/19 13:39	10
2-Fluorobiphenyl (Surr)	89		46 - 120	05/02/19 10:10	05/05/19 13:39	10
p-Terphenyl-d14	104		61 - 136	05/02/19 10:10	05/05/19 13:39	10

Client Sample ID: B-19(0-6)

Date Collected: 04/25/19 13:40

Date Received: 04/26/19 10:30

Lab Sample ID: 590-10868-27

Matrix: Solid

Percent Solids: 85.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		11		ug/Kg	☼	05/02/19 10:10	05/02/19 18:28	1
2-Methylnaphthalene	ND		11		ug/Kg	☼	05/02/19 10:10	05/02/19 18:28	1
1-Methylnaphthalene	ND		11		ug/Kg	☼	05/02/19 10:10	05/02/19 18:28	1
Acenaphthylene	ND		11		ug/Kg	☼	05/02/19 10:10	05/02/19 18:28	1
Acenaphthene	ND		11		ug/Kg	☼	05/02/19 10:10	05/02/19 18:28	1
Fluorene	ND		11		ug/Kg	☼	05/02/19 10:10	05/02/19 18:28	1
Phenanthrene	29		11		ug/Kg	☼	05/02/19 10:10	05/02/19 18:28	1
Anthracene	ND		11		ug/Kg	☼	05/02/19 10:10	05/02/19 18:28	1
Fluoranthene	71		11		ug/Kg	☼	05/02/19 10:10	05/02/19 18:28	1
Pyrene	84		11		ug/Kg	☼	05/02/19 10:10	05/02/19 18:28	1
Benzo[a]anthracene	53		11		ug/Kg	☼	05/02/19 10:10	05/02/19 18:28	1

Eurofins TestAmerica, Spokane

Client Sample Results

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014001

Job ID: 590-10868-1

Client Sample ID: B-19(0-6)

Lab Sample ID: 590-10868-27

Date Collected: 04/25/19 13:40

Matrix: Solid

Date Received: 04/26/19 10:30

Percent Solids: 85.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	70		11		ug/Kg	☼	05/02/19 10:10	05/02/19 18:28	1
Benzo[b]fluoranthene	87		11		ug/Kg	☼	05/02/19 10:10	05/02/19 18:28	1
Benzo[k]fluoranthene	34		11		ug/Kg	☼	05/02/19 10:10	05/02/19 18:28	1
Benzo[a]pyrene	76		11		ug/Kg	☼	05/02/19 10:10	05/02/19 18:28	1
Indeno[1,2,3-cd]pyrene	43		11		ug/Kg	☼	05/02/19 10:10	05/02/19 18:28	1
Dibenz(a,h)anthracene	14		11		ug/Kg	☼	05/02/19 10:10	05/02/19 18:28	1
Benzo[g,h,i]perylene	50		11		ug/Kg	☼	05/02/19 10:10	05/02/19 18:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	71		31 - 120	05/02/19 10:10	05/02/19 18:28	1
2-Fluorobiphenyl (Surr)	80		46 - 120	05/02/19 10:10	05/02/19 18:28	1
p-Terphenyl-d14	104		61 - 136	05/02/19 10:10	05/02/19 18:28	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	130		3.5		mg/Kg	☼	04/29/19 09:52	05/03/19 11:07	1

Client Sample ID: B-15(0-6)

Lab Sample ID: 590-10868-29

Date Collected: 04/25/19 13:50

Matrix: Solid

Date Received: 04/26/19 10:30

Percent Solids: 84.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	35		12		ug/Kg	☼	05/02/19 10:10	05/02/19 18:54	1
2-Methylnaphthalene	26		12		ug/Kg	☼	05/02/19 10:10	05/02/19 18:54	1
1-Methylnaphthalene	19		12		ug/Kg	☼	05/02/19 10:10	05/02/19 18:54	1
Acenaphthylene	ND		12		ug/Kg	☼	05/02/19 10:10	05/02/19 18:54	1
Acenaphthene	270		12		ug/Kg	☼	05/02/19 10:10	05/02/19 18:54	1
Fluorene	85		12		ug/Kg	☼	05/02/19 10:10	05/02/19 18:54	1
Phenanthrene	1400		12		ug/Kg	☼	05/02/19 10:10	05/02/19 18:54	1
Anthracene	330		12		ug/Kg	☼	05/02/19 10:10	05/02/19 18:54	1
Fluoranthene	3900		120		ug/Kg	☼	05/02/19 10:10	05/05/19 14:06	10
Pyrene	4200		120		ug/Kg	☼	05/02/19 10:10	05/05/19 14:06	10
Benzo[a]anthracene	3000		12		ug/Kg	☼	05/02/19 10:10	05/02/19 18:54	1
Chrysene	3800		120		ug/Kg	☼	05/02/19 10:10	05/05/19 14:06	10
Benzo[b]fluoranthene	4900		120		ug/Kg	☼	05/02/19 10:10	05/05/19 14:06	10
Benzo[k]fluoranthene	2000		12		ug/Kg	☼	05/02/19 10:10	05/02/19 18:54	1
Benzo[a]pyrene	4500		120		ug/Kg	☼	05/02/19 10:10	05/05/19 14:06	10
Indeno[1,2,3-cd]pyrene	2600		12		ug/Kg	☼	05/02/19 10:10	05/02/19 18:54	1
Dibenz(a,h)anthracene	850		12		ug/Kg	☼	05/02/19 10:10	05/02/19 18:54	1
Benzo[g,h,i]perylene	2800		12		ug/Kg	☼	05/02/19 10:10	05/02/19 18:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	87		31 - 120	05/02/19 10:10	05/02/19 18:54	1
Nitrobenzene-d5	87		31 - 120	05/02/19 10:10	05/05/19 14:06	10
2-Fluorobiphenyl (Surr)	93		46 - 120	05/02/19 10:10	05/02/19 18:54	1
2-Fluorobiphenyl (Surr)	92		46 - 120	05/02/19 10:10	05/05/19 14:06	10
p-Terphenyl-d14	106		61 - 136	05/02/19 10:10	05/02/19 18:54	1
p-Terphenyl-d14	99		61 - 136	05/02/19 10:10	05/05/19 14:06	10

Eurofins TestAmerica, Spokane

Client Sample Results

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014001

Job ID: 590-10868-1

Client Sample ID: B-15(0-6)

Date Collected: 04/25/19 13:50

Date Received: 04/26/19 10:30

Lab Sample ID: 590-10868-29

Matrix: Solid

Percent Solids: 84.3

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	24		3.6		mg/Kg	☼	04/29/19 09:52	05/03/19 11:10	1

Client Sample ID: B-11(36)

Date Collected: 04/25/19 14:05

Date Received: 04/26/19 10:30

Lab Sample ID: 590-10868-31

Matrix: Solid

Percent Solids: 89.9

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	☼	05/02/19 10:10	05/02/19 19:21	1
2-Methylnaphthalene	ND		10		ug/Kg	☼	05/02/19 10:10	05/02/19 19:21	1
1-Methylnaphthalene	ND		10		ug/Kg	☼	05/02/19 10:10	05/02/19 19:21	1
Acenaphthylene	ND		10		ug/Kg	☼	05/02/19 10:10	05/02/19 19:21	1
Acenaphthene	ND		10		ug/Kg	☼	05/02/19 10:10	05/02/19 19:21	1
Fluorene	ND		10		ug/Kg	☼	05/02/19 10:10	05/02/19 19:21	1
Phenanthrene	40		10		ug/Kg	☼	05/02/19 10:10	05/02/19 19:21	1
Anthracene	11		10		ug/Kg	☼	05/02/19 10:10	05/02/19 19:21	1
Fluoranthene	95		10		ug/Kg	☼	05/02/19 10:10	05/02/19 19:21	1
Pyrene	100		10		ug/Kg	☼	05/02/19 10:10	05/02/19 19:21	1
Benzo[a]anthracene	81		10		ug/Kg	☼	05/02/19 10:10	05/02/19 19:21	1
Chrysene	100		10		ug/Kg	☼	05/02/19 10:10	05/02/19 19:21	1
Benzo[b]fluoranthene	110		10		ug/Kg	☼	05/02/19 10:10	05/02/19 19:21	1
Benzo[k]fluoranthene	46		10		ug/Kg	☼	05/02/19 10:10	05/02/19 19:21	1
Benzo[a]pyrene	100		10		ug/Kg	☼	05/02/19 10:10	05/02/19 19:21	1
Indeno[1,2,3-cd]pyrene	52		10		ug/Kg	☼	05/02/19 10:10	05/02/19 19:21	1
Dibenz(a,h)anthracene	19		10		ug/Kg	☼	05/02/19 10:10	05/02/19 19:21	1
Benzo[g,h,i]perylene	64		10		ug/Kg	☼	05/02/19 10:10	05/02/19 19:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	86		31 - 120	05/02/19 10:10	05/02/19 19:21	1
2-Fluorobiphenyl (Surr)	90		46 - 120	05/02/19 10:10	05/02/19 19:21	1
p-Terphenyl-d14	103		61 - 136	05/02/19 10:10	05/02/19 19:21	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	11		2.7		mg/Kg	☼	04/29/19 09:52	05/03/19 11:14	1

Client Sample ID: B-9(36)

Date Collected: 04/25/19 14:06

Date Received: 04/26/19 10:30

Lab Sample ID: 590-10868-32

Matrix: Solid

Percent Solids: 89.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		11		ug/Kg	☼	05/02/19 10:10	05/02/19 19:47	1
2-Methylnaphthalene	ND		11		ug/Kg	☼	05/02/19 10:10	05/02/19 19:47	1
1-Methylnaphthalene	ND		11		ug/Kg	☼	05/02/19 10:10	05/02/19 19:47	1
Acenaphthylene	ND		11		ug/Kg	☼	05/02/19 10:10	05/02/19 19:47	1
Acenaphthene	ND		11		ug/Kg	☼	05/02/19 10:10	05/02/19 19:47	1
Fluorene	ND		11		ug/Kg	☼	05/02/19 10:10	05/02/19 19:47	1
Phenanthrene	19		11		ug/Kg	☼	05/02/19 10:10	05/02/19 19:47	1
Anthracene	ND		11		ug/Kg	☼	05/02/19 10:10	05/02/19 19:47	1
Fluoranthene	49		11		ug/Kg	☼	05/02/19 10:10	05/02/19 19:47	1

Eurofins TestAmerica, Spokane

Client Sample Results

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014001

Job ID: 590-10868-1

Client Sample ID: B-9(36)
Date Collected: 04/25/19 14:06
Date Received: 04/26/19 10:30

Lab Sample ID: 590-10868-32
Matrix: Solid
Percent Solids: 89.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pyrene	48		11		ug/Kg	☼	05/02/19 10:10	05/02/19 19:47	1
Benzo[a]anthracene	40		11		ug/Kg	☼	05/02/19 10:10	05/02/19 19:47	1
Chrysene	49		11		ug/Kg	☼	05/02/19 10:10	05/02/19 19:47	1
Benzo[b]fluoranthene	61		11		ug/Kg	☼	05/02/19 10:10	05/02/19 19:47	1
Benzo[k]fluoranthene	25		11		ug/Kg	☼	05/02/19 10:10	05/02/19 19:47	1
Benzo[a]pyrene	50		11		ug/Kg	☼	05/02/19 10:10	05/02/19 19:47	1
Indeno[1,2,3-cd]pyrene	29		11		ug/Kg	☼	05/02/19 10:10	05/02/19 19:47	1
Dibenz(a,h)anthracene	11		11		ug/Kg	☼	05/02/19 10:10	05/02/19 19:47	1
Benzo[g,h,i]perylene	35		11		ug/Kg	☼	05/02/19 10:10	05/02/19 19:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	66		31 - 120				05/02/19 10:10	05/02/19 19:47	1
2-Fluorobiphenyl (Surr)	74		46 - 120				05/02/19 10:10	05/02/19 19:47	1
p-Terphenyl-d14	99		61 - 136				05/02/19 10:10	05/02/19 19:47	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	9.1		2.7		mg/Kg	☼	04/29/19 09:52	05/03/19 11:18	1

Client Sample ID: B-10(36)
Date Collected: 04/25/19 14:20
Date Received: 04/26/19 10:30

Lab Sample ID: 590-10868-34
Matrix: Solid
Percent Solids: 89.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		11		ug/Kg	☼	05/02/19 10:10	05/02/19 20:13	1
2-Methylnaphthalene	ND		11		ug/Kg	☼	05/02/19 10:10	05/02/19 20:13	1
1-Methylnaphthalene	ND		11		ug/Kg	☼	05/02/19 10:10	05/02/19 20:13	1
Acenaphthylene	ND		11		ug/Kg	☼	05/02/19 10:10	05/02/19 20:13	1
Acenaphthene	68		11		ug/Kg	☼	05/02/19 10:10	05/02/19 20:13	1
Fluorene	26		11		ug/Kg	☼	05/02/19 10:10	05/02/19 20:13	1
Phenanthrene	350		11		ug/Kg	☼	05/02/19 10:10	05/02/19 20:13	1
Anthracene	99		11		ug/Kg	☼	05/02/19 10:10	05/02/19 20:13	1
Fluoranthene	890		11		ug/Kg	☼	05/02/19 10:10	05/02/19 20:13	1
Pyrene	860		11		ug/Kg	☼	05/02/19 10:10	05/02/19 20:13	1
Benzo[a]anthracene	710		11		ug/Kg	☼	05/02/19 10:10	05/02/19 20:13	1
Chrysene	790		11		ug/Kg	☼	05/02/19 10:10	05/02/19 20:13	1
Benzo[b]fluoranthene	1100		11		ug/Kg	☼	05/02/19 10:10	05/02/19 20:13	1
Benzo[k]fluoranthene	420		11		ug/Kg	☼	05/02/19 10:10	05/02/19 20:13	1
Benzo[a]pyrene	930		11		ug/Kg	☼	05/02/19 10:10	05/02/19 20:13	1
Indeno[1,2,3-cd]pyrene	520		11		ug/Kg	☼	05/02/19 10:10	05/02/19 20:13	1
Dibenz(a,h)anthracene	170		11		ug/Kg	☼	05/02/19 10:10	05/02/19 20:13	1
Benzo[g,h,i]perylene	600		11		ug/Kg	☼	05/02/19 10:10	05/02/19 20:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	72		31 - 120				05/02/19 10:10	05/02/19 20:13	1
2-Fluorobiphenyl (Surr)	79		46 - 120				05/02/19 10:10	05/02/19 20:13	1
p-Terphenyl-d14	99		61 - 136				05/02/19 10:10	05/02/19 20:13	1

Client Sample Results

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014001

Job ID: 590-10868-1

Client Sample ID: B-10(36)

Date Collected: 04/25/19 14:20

Date Received: 04/26/19 10:30

Lab Sample ID: 590-10868-34

Matrix: Solid

Percent Solids: 89.0

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	15		2.4		mg/Kg	☼	04/29/19 09:52	05/03/19 11:22	1

Client Sample ID: B-12(96)

Date Collected: 04/25/19 14:25

Date Received: 04/26/19 10:30

Lab Sample ID: 590-10868-35

Matrix: Solid

Percent Solids: 91.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	2400		1100		ug/Kg	☼	05/02/19 10:10	05/02/19 20:40	100
2-Methylnaphthalene	2200		1100		ug/Kg	☼	05/02/19 10:10	05/02/19 20:40	100
1-Methylnaphthalene	1500		1100		ug/Kg	☼	05/02/19 10:10	05/02/19 20:40	100
Acenaphthylene	ND		1100		ug/Kg	☼	05/02/19 10:10	05/02/19 20:40	100
Acenaphthene	17000		1100		ug/Kg	☼	05/02/19 10:10	05/02/19 20:40	100
Fluorene	6800		1100		ug/Kg	☼	05/02/19 10:10	05/02/19 20:40	100
Phenanthrene	86000		1100		ug/Kg	☼	05/02/19 10:10	05/02/19 20:40	100
Anthracene	21000		1100		ug/Kg	☼	05/02/19 10:10	05/02/19 20:40	100
Fluoranthene	200000		1100		ug/Kg	☼	05/02/19 10:10	05/02/19 20:40	100
Pyrene	230000		1100		ug/Kg	☼	05/02/19 10:10	05/02/19 20:40	100
Benzo[a]anthracene	160000		1100		ug/Kg	☼	05/02/19 10:10	05/02/19 20:40	100
Chrysene	200000		1100		ug/Kg	☼	05/02/19 10:10	05/02/19 20:40	100
Benzo[b]fluoranthene	240000		1100		ug/Kg	☼	05/02/19 10:10	05/02/19 20:40	100
Benzo[k]fluoranthene	85000		1100		ug/Kg	☼	05/02/19 10:10	05/02/19 20:40	100
Benzo[a]pyrene	220000		1100		ug/Kg	☼	05/02/19 10:10	05/02/19 20:40	100
Indeno[1,2,3-cd]pyrene	110000		1100		ug/Kg	☼	05/02/19 10:10	05/02/19 20:40	100
Dibenz(a,h)anthracene	39000		1100		ug/Kg	☼	05/02/19 10:10	05/02/19 20:40	100
Benzo[g,h,i]perylene	120000		1100		ug/Kg	☼	05/02/19 10:10	05/02/19 20:40	100

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	103		31 - 120	05/02/19 10:10	05/02/19 20:40	100
2-Fluorobiphenyl (Surr)	115		46 - 120	05/02/19 10:10	05/02/19 20:40	100
p-Terphenyl-d14	132		61 - 136	05/02/19 10:10	05/02/19 20:40	100

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	72		2.6		mg/Kg	☼	04/29/19 09:52	05/03/19 11:35	1

Client Sample ID: B-13(42)

Date Collected: 04/25/19 14:45

Date Received: 04/26/19 10:30

Lab Sample ID: 590-10868-36

Matrix: Solid

Percent Solids: 92.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		11		ug/Kg	☼	05/02/19 10:10	05/02/19 21:06	1
2-Methylnaphthalene	ND		11		ug/Kg	☼	05/02/19 10:10	05/02/19 21:06	1
1-Methylnaphthalene	ND		11		ug/Kg	☼	05/02/19 10:10	05/02/19 21:06	1
Acenaphthylene	ND		11		ug/Kg	☼	05/02/19 10:10	05/02/19 21:06	1
Acenaphthene	ND		11		ug/Kg	☼	05/02/19 10:10	05/02/19 21:06	1
Fluorene	ND		11		ug/Kg	☼	05/02/19 10:10	05/02/19 21:06	1
Phenanthrene	ND		11		ug/Kg	☼	05/02/19 10:10	05/02/19 21:06	1
Anthracene	ND		11		ug/Kg	☼	05/02/19 10:10	05/02/19 21:06	1
Fluoranthene	ND		11		ug/Kg	☼	05/02/19 10:10	05/02/19 21:06	1

Eurofins TestAmerica, Spokane

Client Sample Results

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014001

Job ID: 590-10868-1

Client Sample ID: B-13(42)

Lab Sample ID: 590-10868-36

Date Collected: 04/25/19 14:45

Matrix: Solid

Date Received: 04/26/19 10:30

Percent Solids: 92.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pyrene	12		11		ug/Kg	☼	05/02/19 10:10	05/02/19 21:06	1
Benzo[a]anthracene	ND		11		ug/Kg	☼	05/02/19 10:10	05/02/19 21:06	1
Chrysene	13		11		ug/Kg	☼	05/02/19 10:10	05/02/19 21:06	1
Benzo[b]fluoranthene	14		11		ug/Kg	☼	05/02/19 10:10	05/02/19 21:06	1
Benzo[k]fluoranthene	ND		11		ug/Kg	☼	05/02/19 10:10	05/02/19 21:06	1
Benzo[a]pyrene	13		11		ug/Kg	☼	05/02/19 10:10	05/02/19 21:06	1
Indeno[1,2,3-cd]pyrene	ND		11		ug/Kg	☼	05/02/19 10:10	05/02/19 21:06	1
Dibenz(a,h)anthracene	ND		11		ug/Kg	☼	05/02/19 10:10	05/02/19 21:06	1
Benzo[g,h,i]perylene	ND		11		ug/Kg	☼	05/02/19 10:10	05/02/19 21:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	60		31 - 120				05/02/19 10:10	05/02/19 21:06	1
2-Fluorobiphenyl (Surr)	72		46 - 120				05/02/19 10:10	05/02/19 21:06	1
p-Terphenyl-d14	87		61 - 136				05/02/19 10:10	05/02/19 21:06	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	9.0		2.5		mg/Kg	☼	04/29/19 09:52	05/03/19 11:39	1

Client Sample ID: TP-41(24-36)

Lab Sample ID: 590-10868-40

Date Collected: 04/25/19 15:15

Matrix: Solid

Date Received: 04/26/19 10:30

Percent Solids: 86.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		12		ug/Kg	☼	05/02/19 10:10	05/02/19 21:32	1
2-Methylnaphthalene	ND		12		ug/Kg	☼	05/02/19 10:10	05/02/19 21:32	1
1-Methylnaphthalene	ND		12		ug/Kg	☼	05/02/19 10:10	05/02/19 21:32	1
Acenaphthylene	ND		12		ug/Kg	☼	05/02/19 10:10	05/02/19 21:32	1
Acenaphthene	ND		12		ug/Kg	☼	05/02/19 10:10	05/02/19 21:32	1
Fluorene	ND		12		ug/Kg	☼	05/02/19 10:10	05/02/19 21:32	1
Phenanthrene	ND		12		ug/Kg	☼	05/02/19 10:10	05/02/19 21:32	1
Anthracene	ND		12		ug/Kg	☼	05/02/19 10:10	05/02/19 21:32	1
Fluoranthene	18		12		ug/Kg	☼	05/02/19 10:10	05/02/19 21:32	1
Pyrene	21		12		ug/Kg	☼	05/02/19 10:10	05/02/19 21:32	1
Benzo[a]anthracene	14		12		ug/Kg	☼	05/02/19 10:10	05/02/19 21:32	1
Chrysene	19		12		ug/Kg	☼	05/02/19 10:10	05/02/19 21:32	1
Benzo[b]fluoranthene	24		12		ug/Kg	☼	05/02/19 10:10	05/02/19 21:32	1
Benzo[k]fluoranthene	ND		12		ug/Kg	☼	05/02/19 10:10	05/02/19 21:32	1
Benzo[a]pyrene	22		12		ug/Kg	☼	05/02/19 10:10	05/02/19 21:32	1
Indeno[1,2,3-cd]pyrene	12		12		ug/Kg	☼	05/02/19 10:10	05/02/19 21:32	1
Dibenz(a,h)anthracene	ND		12		ug/Kg	☼	05/02/19 10:10	05/02/19 21:32	1
Benzo[g,h,i]perylene	14		12		ug/Kg	☼	05/02/19 10:10	05/02/19 21:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	59		31 - 120				05/02/19 10:10	05/02/19 21:32	1
2-Fluorobiphenyl (Surr)	68		46 - 120				05/02/19 10:10	05/02/19 21:32	1
p-Terphenyl-d14	95		61 - 136				05/02/19 10:10	05/02/19 21:32	1

Euofins TestAmerica, Spokane

Client Sample Results

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014001

Job ID: 590-10868-1

Client Sample ID: TP-41(24-36)

Date Collected: 04/25/19 15:15

Date Received: 04/26/19 10:30

Lab Sample ID: 590-10868-40

Matrix: Solid

Percent Solids: 86.7

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	28		2.5		mg/Kg	☼	04/29/19 09:52	05/03/19 11:43	1

Client Sample ID: TP-53(24-36)

Date Collected: 04/25/19 15:20

Date Received: 04/26/19 10:30

Lab Sample ID: 590-10868-41

Matrix: Solid

Percent Solids: 84.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		12		ug/Kg	☼	05/05/19 12:06	05/05/19 15:25	1
2-Methylnaphthalene	ND		12		ug/Kg	☼	05/05/19 12:06	05/05/19 15:25	1
1-Methylnaphthalene	ND		12		ug/Kg	☼	05/05/19 12:06	05/05/19 15:25	1
Acenaphthylene	ND		12		ug/Kg	☼	05/05/19 12:06	05/05/19 15:25	1
Acenaphthene	ND		12		ug/Kg	☼	05/05/19 12:06	05/05/19 15:25	1
Fluorene	ND		12		ug/Kg	☼	05/05/19 12:06	05/05/19 15:25	1
Phenanthrene	ND		12		ug/Kg	☼	05/05/19 12:06	05/05/19 15:25	1
Anthracene	ND		12		ug/Kg	☼	05/05/19 12:06	05/05/19 15:25	1
Fluoranthene	ND		12		ug/Kg	☼	05/05/19 12:06	05/05/19 15:25	1
Pyrene	ND		12		ug/Kg	☼	05/05/19 12:06	05/05/19 15:25	1
Benzo[a]anthracene	ND		12		ug/Kg	☼	05/05/19 12:06	05/05/19 15:25	1
Chrysene	ND		12		ug/Kg	☼	05/05/19 12:06	05/05/19 15:25	1
Benzo[b]fluoranthene	ND		12		ug/Kg	☼	05/05/19 12:06	05/05/19 15:25	1
Benzo[k]fluoranthene	ND		12		ug/Kg	☼	05/05/19 12:06	05/05/19 15:25	1
Benzo[a]pyrene	ND		12		ug/Kg	☼	05/05/19 12:06	05/05/19 15:25	1
Indeno[1,2,3-cd]pyrene	ND		12		ug/Kg	☼	05/05/19 12:06	05/05/19 15:25	1
Dibenz(a,h)anthracene	ND		12		ug/Kg	☼	05/05/19 12:06	05/05/19 15:25	1
Benzo[g,h,i]perylene	ND		12		ug/Kg	☼	05/05/19 12:06	05/05/19 15:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	92		31 - 120	05/05/19 12:06	05/05/19 15:25	1
2-Fluorobiphenyl (Surr)	98		46 - 120	05/05/19 12:06	05/05/19 15:25	1
p-Terphenyl-d14	127		61 - 136	05/05/19 12:06	05/05/19 15:25	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	13		2.6		mg/Kg	☼	04/29/19 09:52	05/03/19 11:46	1

Client Sample ID: TP-52(24-36)

Date Collected: 04/25/19 15:30

Date Received: 04/26/19 10:30

Lab Sample ID: 590-10868-42

Matrix: Solid

Percent Solids: 92.3

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	☼	05/05/19 12:06	05/05/19 15:51	1
2-Methylnaphthalene	ND		10		ug/Kg	☼	05/05/19 12:06	05/05/19 15:51	1
1-Methylnaphthalene	ND		10		ug/Kg	☼	05/05/19 12:06	05/05/19 15:51	1
Acenaphthylene	ND		10		ug/Kg	☼	05/05/19 12:06	05/05/19 15:51	1
Acenaphthene	29		10		ug/Kg	☼	05/05/19 12:06	05/05/19 15:51	1
Fluorene	12		10		ug/Kg	☼	05/05/19 12:06	05/05/19 15:51	1
Phenanthrene	180		10		ug/Kg	☼	05/05/19 12:06	05/05/19 15:51	1
Anthracene	45		10		ug/Kg	☼	05/05/19 12:06	05/05/19 15:51	1
Fluoranthene	390		10		ug/Kg	☼	05/05/19 12:06	05/05/19 15:51	1

Eurofins TestAmerica, Spokane

Client Sample Results

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014001

Job ID: 590-10868-1

Client Sample ID: TP-52(24-36)

Lab Sample ID: 590-10868-42

Date Collected: 04/25/19 15:30

Matrix: Solid

Date Received: 04/26/19 10:30

Percent Solids: 92.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pyrene	450		10		ug/Kg	☼	05/05/19 12:06	05/05/19 15:51	1
Benzo[a]anthracene	340		10		ug/Kg	☼	05/05/19 12:06	05/05/19 15:51	1
Chrysene	430		10		ug/Kg	☼	05/05/19 12:06	05/05/19 15:51	1
Benzo[b]fluoranthene	500		10		ug/Kg	☼	05/05/19 12:06	05/05/19 15:51	1
Benzo[k]fluoranthene	170		10		ug/Kg	☼	05/05/19 12:06	05/05/19 15:51	1
Benzo[a]pyrene	460		10		ug/Kg	☼	05/05/19 12:06	05/05/19 15:51	1
Indeno[1,2,3-cd]pyrene	250		10		ug/Kg	☼	05/05/19 12:06	05/05/19 15:51	1
Dibenz(a,h)anthracene	89		10		ug/Kg	☼	05/05/19 12:06	05/05/19 15:51	1
Benzo[g,h,i]perylene	320		10		ug/Kg	☼	05/05/19 12:06	05/05/19 15:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	65		31 - 120				05/05/19 12:06	05/05/19 15:51	1
2-Fluorobiphenyl (Surr)	78		46 - 120				05/05/19 12:06	05/05/19 15:51	1
p-Terphenyl-d14	105		61 - 136				05/05/19 12:06	05/05/19 15:51	1

Client Sample ID: TP-54(24-36)

Lab Sample ID: 590-10868-43

Date Collected: 04/25/19 15:40

Matrix: Solid

Date Received: 04/26/19 10:30

Percent Solids: 85.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		11		ug/Kg	☼	05/05/19 12:06	05/05/19 16:17	1
2-Methylnaphthalene	ND		11		ug/Kg	☼	05/05/19 12:06	05/05/19 16:17	1
1-Methylnaphthalene	ND		11		ug/Kg	☼	05/05/19 12:06	05/05/19 16:17	1
Acenaphthylene	ND		11		ug/Kg	☼	05/05/19 12:06	05/05/19 16:17	1
Acenaphthene	ND		11		ug/Kg	☼	05/05/19 12:06	05/05/19 16:17	1
Fluorene	ND		11		ug/Kg	☼	05/05/19 12:06	05/05/19 16:17	1
Phenanthrene	ND		11		ug/Kg	☼	05/05/19 12:06	05/05/19 16:17	1
Anthracene	ND		11		ug/Kg	☼	05/05/19 12:06	05/05/19 16:17	1
Fluoranthene	ND		11		ug/Kg	☼	05/05/19 12:06	05/05/19 16:17	1
Pyrene	ND		11		ug/Kg	☼	05/05/19 12:06	05/05/19 16:17	1
Benzo[a]anthracene	ND		11		ug/Kg	☼	05/05/19 12:06	05/05/19 16:17	1
Chrysene	ND		11		ug/Kg	☼	05/05/19 12:06	05/05/19 16:17	1
Benzo[b]fluoranthene	ND		11		ug/Kg	☼	05/05/19 12:06	05/05/19 16:17	1
Benzo[k]fluoranthene	ND		11		ug/Kg	☼	05/05/19 12:06	05/05/19 16:17	1
Benzo[a]pyrene	ND		11		ug/Kg	☼	05/05/19 12:06	05/05/19 16:17	1
Indeno[1,2,3-cd]pyrene	ND		11		ug/Kg	☼	05/05/19 12:06	05/05/19 16:17	1
Dibenz(a,h)anthracene	ND		11		ug/Kg	☼	05/05/19 12:06	05/05/19 16:17	1
Benzo[g,h,i]perylene	ND		11		ug/Kg	☼	05/05/19 12:06	05/05/19 16:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	83		31 - 120				05/05/19 12:06	05/05/19 16:17	1
2-Fluorobiphenyl (Surr)	87		46 - 120				05/05/19 12:06	05/05/19 16:17	1
p-Terphenyl-d14	103		61 - 136				05/05/19 12:06	05/05/19 16:17	1

Client Sample Results

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014001

Job ID: 590-10868-1

Client Sample ID: TP-55(24-36)

Lab Sample ID: 590-10868-44

Date Collected: 04/25/19 15:45

Matrix: Solid

Date Received: 04/26/19 10:30

Percent Solids: 92.4

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	☼	05/05/19 12:06	05/05/19 16:44	1
2-Methylnaphthalene	ND		10		ug/Kg	☼	05/05/19 12:06	05/05/19 16:44	1
1-Methylnaphthalene	ND		10		ug/Kg	☼	05/05/19 12:06	05/05/19 16:44	1
Acenaphthylene	ND		10		ug/Kg	☼	05/05/19 12:06	05/05/19 16:44	1
Acenaphthene	ND		10		ug/Kg	☼	05/05/19 12:06	05/05/19 16:44	1
Fluorene	ND		10		ug/Kg	☼	05/05/19 12:06	05/05/19 16:44	1
Phenanthrene	ND		10		ug/Kg	☼	05/05/19 12:06	05/05/19 16:44	1
Anthracene	ND		10		ug/Kg	☼	05/05/19 12:06	05/05/19 16:44	1
Fluoranthene	ND		10		ug/Kg	☼	05/05/19 12:06	05/05/19 16:44	1
Pyrene	ND		10		ug/Kg	☼	05/05/19 12:06	05/05/19 16:44	1
Benzo[a]anthracene	ND		10		ug/Kg	☼	05/05/19 12:06	05/05/19 16:44	1
Chrysene	ND		10		ug/Kg	☼	05/05/19 12:06	05/05/19 16:44	1
Benzo[b]fluoranthene	ND		10		ug/Kg	☼	05/05/19 12:06	05/05/19 16:44	1
Benzo[k]fluoranthene	ND		10		ug/Kg	☼	05/05/19 12:06	05/05/19 16:44	1
Benzo[a]pyrene	ND		10		ug/Kg	☼	05/05/19 12:06	05/05/19 16:44	1
Indeno[1,2,3-cd]pyrene	ND		10		ug/Kg	☼	05/05/19 12:06	05/05/19 16:44	1
Dibenz(a,h)anthracene	ND		10		ug/Kg	☼	05/05/19 12:06	05/05/19 16:44	1
Benzo[g,h,i]perylene	ND		10		ug/Kg	☼	05/05/19 12:06	05/05/19 16:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	70		31 - 120	05/05/19 12:06	05/05/19 16:44	1
2-Fluorobiphenyl (Surr)	81		46 - 120	05/05/19 12:06	05/05/19 16:44	1
p-Terphenyl-d14	100		61 - 136	05/05/19 12:06	05/05/19 16:44	1

Client Sample ID: TP-56(24-36)

Lab Sample ID: 590-10868-45

Date Collected: 04/25/19 16:00

Matrix: Solid

Date Received: 04/26/19 10:30

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	☼	05/05/19 12:06	05/05/19 17:10	1
2-Methylnaphthalene	ND		10		ug/Kg	☼	05/05/19 12:06	05/05/19 17:10	1
1-Methylnaphthalene	ND		10		ug/Kg	☼	05/05/19 12:06	05/05/19 17:10	1
Acenaphthylene	ND		10		ug/Kg	☼	05/05/19 12:06	05/05/19 17:10	1
Acenaphthene	11		10		ug/Kg	☼	05/05/19 12:06	05/05/19 17:10	1
Fluorene	ND		10		ug/Kg	☼	05/05/19 12:06	05/05/19 17:10	1
Phenanthrene	70		10		ug/Kg	☼	05/05/19 12:06	05/05/19 17:10	1
Anthracene	17		10		ug/Kg	☼	05/05/19 12:06	05/05/19 17:10	1
Fluoranthene	250		10		ug/Kg	☼	05/05/19 12:06	05/05/19 17:10	1
Pyrene	250		10		ug/Kg	☼	05/05/19 12:06	05/05/19 17:10	1
Benzo[a]anthracene	200		10		ug/Kg	☼	05/05/19 12:06	05/05/19 17:10	1
Chrysene	240		10		ug/Kg	☼	05/05/19 12:06	05/05/19 17:10	1
Benzo[b]fluoranthene	320		10		ug/Kg	☼	05/05/19 12:06	05/05/19 17:10	1
Benzo[k]fluoranthene	110		10		ug/Kg	☼	05/05/19 12:06	05/05/19 17:10	1
Benzo[a]pyrene	280		10		ug/Kg	☼	05/05/19 12:06	05/05/19 17:10	1
Indeno[1,2,3-cd]pyrene	170		10		ug/Kg	☼	05/05/19 12:06	05/05/19 17:10	1
Dibenz(a,h)anthracene	53		10		ug/Kg	☼	05/05/19 12:06	05/05/19 17:10	1
Benzo[g,h,i]perylene	190		10		ug/Kg	☼	05/05/19 12:06	05/05/19 17:10	1

Eurofins TestAmerica, Spokane

Client Sample Results

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014001

Job ID: 590-10868-1

Client Sample ID: TP-56(24-36)

Date Collected: 04/25/19 16:00

Date Received: 04/26/19 10:30

Lab Sample ID: 590-10868-45

Matrix: Solid

Percent Solids: 95.0

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	66		31 - 120	05/05/19 12:06	05/05/19 17:10	1
2-Fluorobiphenyl (Surr)	73		46 - 120	05/05/19 12:06	05/05/19 17:10	1
p-Terphenyl-d14	100		61 - 136	05/05/19 12:06	05/05/19 17:10	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	190		2.4		mg/Kg	☼	04/29/19 09:52	05/03/19 11:50	1

Client Sample ID: TP-39(36)

Date Collected: 04/25/19 15:10

Date Received: 04/26/19 10:30

Lab Sample ID: 590-10868-46

Matrix: Solid

Percent Solids: 90.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		11		ug/Kg	☼	05/05/19 12:06	05/05/19 17:36	1
2-Methylnaphthalene	ND		11		ug/Kg	☼	05/05/19 12:06	05/05/19 17:36	1
1-Methylnaphthalene	ND		11		ug/Kg	☼	05/05/19 12:06	05/05/19 17:36	1
Acenaphthylene	ND		11		ug/Kg	☼	05/05/19 12:06	05/05/19 17:36	1
Acenaphthene	ND		11		ug/Kg	☼	05/05/19 12:06	05/05/19 17:36	1
Fluorene	ND		11		ug/Kg	☼	05/05/19 12:06	05/05/19 17:36	1
Phenanthrene	ND		11		ug/Kg	☼	05/05/19 12:06	05/05/19 17:36	1
Anthracene	ND		11		ug/Kg	☼	05/05/19 12:06	05/05/19 17:36	1
Fluoranthene	ND		11		ug/Kg	☼	05/05/19 12:06	05/05/19 17:36	1
Pyrene	ND		11		ug/Kg	☼	05/05/19 12:06	05/05/19 17:36	1
Benzo[a]anthracene	ND		11		ug/Kg	☼	05/05/19 12:06	05/05/19 17:36	1
Chrysene	ND		11		ug/Kg	☼	05/05/19 12:06	05/05/19 17:36	1
Benzo[b]fluoranthene	ND		11		ug/Kg	☼	05/05/19 12:06	05/05/19 17:36	1
Benzo[k]fluoranthene	ND		11		ug/Kg	☼	05/05/19 12:06	05/05/19 17:36	1
Benzo[a]pyrene	ND		11		ug/Kg	☼	05/05/19 12:06	05/05/19 17:36	1
Indeno[1,2,3-cd]pyrene	ND		11		ug/Kg	☼	05/05/19 12:06	05/05/19 17:36	1
Dibenz(a,h)anthracene	ND		11		ug/Kg	☼	05/05/19 12:06	05/05/19 17:36	1
Benzo[g,h,i]perylene	ND		11		ug/Kg	☼	05/05/19 12:06	05/05/19 17:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	74		31 - 120	05/05/19 12:06	05/05/19 17:36	1
2-Fluorobiphenyl (Surr)	84		46 - 120	05/05/19 12:06	05/05/19 17:36	1
p-Terphenyl-d14	104		61 - 136	05/05/19 12:06	05/05/19 17:36	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	19		2.4		mg/Kg	☼	04/29/19 09:52	05/03/19 11:54	1

QC Sample Results

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014001

Job ID: 590-10868-1

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

Lab Sample ID: MB 590-21975/1-A
Matrix: Solid
Analysis Batch: 21991

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 21975

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		10		ug/Kg		05/02/19 10:10	05/02/19 11:27	1
2-Methylnaphthalene	ND		10		ug/Kg		05/02/19 10:10	05/02/19 11:27	1
1-Methylnaphthalene	ND		10		ug/Kg		05/02/19 10:10	05/02/19 11:27	1
Acenaphthylene	ND		10		ug/Kg		05/02/19 10:10	05/02/19 11:27	1
Acenaphthene	ND		10		ug/Kg		05/02/19 10:10	05/02/19 11:27	1
Fluorene	ND		10		ug/Kg		05/02/19 10:10	05/02/19 11:27	1
Phenanthrene	ND		10		ug/Kg		05/02/19 10:10	05/02/19 11:27	1
Anthracene	ND		10		ug/Kg		05/02/19 10:10	05/02/19 11:27	1
Fluoranthene	ND		10		ug/Kg		05/02/19 10:10	05/02/19 11:27	1
Pyrene	ND		10		ug/Kg		05/02/19 10:10	05/02/19 11:27	1
Benzo[a]anthracene	ND		10		ug/Kg		05/02/19 10:10	05/02/19 11:27	1
Chrysene	ND		10		ug/Kg		05/02/19 10:10	05/02/19 11:27	1
Benzo[b]fluoranthene	ND		10		ug/Kg		05/02/19 10:10	05/02/19 11:27	1
Benzo[k]fluoranthene	ND		10		ug/Kg		05/02/19 10:10	05/02/19 11:27	1
Benzo[a]pyrene	ND		10		ug/Kg		05/02/19 10:10	05/02/19 11:27	1
Indeno[1,2,3-cd]pyrene	ND		10		ug/Kg		05/02/19 10:10	05/02/19 11:27	1
Dibenz(a,h)anthracene	ND		10		ug/Kg		05/02/19 10:10	05/02/19 11:27	1
Benzo[g,h,i]perylene	ND		10		ug/Kg		05/02/19 10:10	05/02/19 11:27	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	73		31 - 120	05/02/19 10:10	05/02/19 11:27	1
2-Fluorobiphenyl (Surr)	78		46 - 120	05/02/19 10:10	05/02/19 11:27	1
p-Terphenyl-d14	104		61 - 136	05/02/19 10:10	05/02/19 11:27	1

Lab Sample ID: LCS 590-21975/2-A
Matrix: Solid
Analysis Batch: 21991

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 21975

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Naphthalene	267	228		ug/Kg		85	33 - 120
2-Methylnaphthalene	267	238		ug/Kg		89	48 - 120
1-Methylnaphthalene	267	247		ug/Kg		93	55 - 120
Acenaphthylene	267	249		ug/Kg		93	47 - 120
Acenaphthene	267	252		ug/Kg		95	53 - 120
Fluorene	267	257		ug/Kg		96	54 - 120
Phenanthrene	267	269		ug/Kg		101	55 - 121
Anthracene	267	270		ug/Kg		101	60 - 129
Fluoranthene	267	280		ug/Kg		105	63 - 127
Pyrene	267	282		ug/Kg		106	62 - 125
Benzo[a]anthracene	267	282		ug/Kg		106	61 - 125
Chrysene	267	290		ug/Kg		109	57 - 127
Benzo[b]fluoranthene	267	284		ug/Kg		106	59 - 127
Benzo[k]fluoranthene	267	279		ug/Kg		105	63 - 127
Benzo[a]pyrene	267	264		ug/Kg		99	60 - 120
Indeno[1,2,3-cd]pyrene	267	286		ug/Kg		107	55 - 128
Dibenz(a,h)anthracene	267	289		ug/Kg		108	60 - 128
Benzo[g,h,i]perylene	267	278		ug/Kg		104	58 - 129

Eurofins TestAmerica, Spokane

QC Sample Results

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014001

Job ID: 590-10868-1

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

Lab Sample ID: LCS 590-21975/2-A
Matrix: Solid
Analysis Batch: 21991

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 21975

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
Nitrobenzene-d5	96		31 - 120
2-Fluorobiphenyl (Surr)	99		46 - 120
p-Terphenyl-d14	122		61 - 136

Lab Sample ID: 590-10868-9 MS
Matrix: Solid
Analysis Batch: 21991

Client Sample ID: B-5(0-6)
Prep Type: Total/NA
Prep Batch: 21975

Analyte	Sample Result	Sample Qualifier	Spike Added	MS MS		Unit	D	%Rec	%Rec.	
				Result	Qualifier				Limits	RPD
Naphthalene	ND		308	171		ug/Kg	☼	56	33 - 120	
2-Methylnaphthalene	ND		308	203		ug/Kg	☼	66	48 - 120	
1-Methylnaphthalene	ND		308	199		ug/Kg	☼	65	55 - 120	
Acenaphthylene	ND		308	239		ug/Kg	☼	78	47 - 120	
Acenaphthene	ND		308	235		ug/Kg	☼	76	53 - 120	
Fluorene	ND		308	259		ug/Kg	☼	84	54 - 120	
Phenanthrene	ND		308	264		ug/Kg	☼	86	55 - 121	
Anthracene	ND		308	274		ug/Kg	☼	89	60 - 129	
Fluoranthene	ND		308	281		ug/Kg	☼	91	63 - 127	
Pyrene	ND		308	275		ug/Kg	☼	89	62 - 125	
Benzo[a]anthracene	ND		308	280		ug/Kg	☼	91	61 - 125	
Chrysene	ND		308	282		ug/Kg	☼	91	57 - 127	
Benzo[b]fluoranthene	ND		308	269		ug/Kg	☼	87	59 - 127	
Benzo[k]fluoranthene	ND		308	289		ug/Kg	☼	94	63 - 127	
Benzo[a]pyrene	ND		308	269		ug/Kg	☼	88	60 - 120	
Indeno[1,2,3-cd]pyrene	ND		308	284		ug/Kg	☼	92	55 - 128	
Dibenz(a,h)anthracene	ND		308	289		ug/Kg	☼	94	60 - 128	
Benzo[g,h,i]perylene	ND		308	279		ug/Kg	☼	91	58 - 129	

Surrogate	MS MS		Limits
	%Recovery	Qualifier	
Nitrobenzene-d5	78		31 - 120
2-Fluorobiphenyl (Surr)	84		46 - 120
p-Terphenyl-d14	102		61 - 136

Lab Sample ID: 590-10868-9 MSD
Matrix: Solid
Analysis Batch: 21991

Client Sample ID: B-5(0-6)
Prep Type: Total/NA
Prep Batch: 21975

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD MSD		Unit	D	%Rec	%Rec.		RPD	Limit
				Result	Qualifier				Limits	RPD		
Naphthalene	ND		308	194		ug/Kg	☼	63	33 - 120	12	35	
2-Methylnaphthalene	ND		308	225		ug/Kg	☼	73	48 - 120	10	23	
1-Methylnaphthalene	ND		308	227		ug/Kg	☼	74	55 - 120	13	24	
Acenaphthylene	ND		308	255		ug/Kg	☼	83	47 - 120	6	20	
Acenaphthene	ND		308	260		ug/Kg	☼	84	53 - 120	10	17	
Fluorene	ND		308	275		ug/Kg	☼	89	54 - 120	6	21	
Phenanthrene	ND		308	288		ug/Kg	☼	93	55 - 121	8	18	
Anthracene	ND		308	292		ug/Kg	☼	95	60 - 129	7	18	
Fluoranthene	ND		308	307		ug/Kg	☼	100	63 - 127	9	18	
Pyrene	ND		308	306		ug/Kg	☼	99	62 - 125	11	16	

Eurofins TestAmerica, Spokane

QC Sample Results

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014001

Job ID: 590-10868-1

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

Lab Sample ID: 590-10868-9 MSD
Matrix: Solid
Analysis Batch: 21991

Client Sample ID: B-5(0-6)
Prep Type: Total/NA
Prep Batch: 21975

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	RPD
	Result	Qualifier	Added	Result	Qualifier						
Benzo[a]anthracene	ND		308	314		ug/Kg	☼	102	61 - 125	11	16
Chrysene	ND		308	315		ug/Kg	☼	102	57 - 127	11	15
Benzo[b]fluoranthene	ND		308	308		ug/Kg	☼	100	59 - 127	13	16
Benzo[k]fluoranthene	ND		308	323		ug/Kg	☼	105	63 - 127	11	16
Benzo[a]pyrene	ND		308	296		ug/Kg	☼	96	60 - 120	9	20
Indeno[1,2,3-cd]pyrene	ND		308	317		ug/Kg	☼	103	55 - 128	11	18
Dibenz(a,h)anthracene	ND		308	320		ug/Kg	☼	104	60 - 128	10	18
Benzo[g,h,i]perylene	ND		308	315		ug/Kg	☼	102	58 - 129	12	17

Surrogate	MSD	MSD	Limits
	%Recovery	Qualifier	
Nitrobenzene-d5	84		31 - 120
2-Fluorobiphenyl (Surr)	89		46 - 120
p-Terphenyl-d14	113		61 - 136

Lab Sample ID: MB 590-22033/1-A
Matrix: Solid
Analysis Batch: 22032

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 22033

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil	Fac
	Result	Qualifier								
Naphthalene	ND		10		ug/Kg		05/05/19 12:06	05/05/19 14:32		1
2-Methylnaphthalene	ND		10		ug/Kg		05/05/19 12:06	05/05/19 14:32		1
1-Methylnaphthalene	ND		10		ug/Kg		05/05/19 12:06	05/05/19 14:32		1
Acenaphthylene	ND		10		ug/Kg		05/05/19 12:06	05/05/19 14:32		1
Acenaphthene	ND		10		ug/Kg		05/05/19 12:06	05/05/19 14:32		1
Fluorene	ND		10		ug/Kg		05/05/19 12:06	05/05/19 14:32		1
Phenanthrene	ND		10		ug/Kg		05/05/19 12:06	05/05/19 14:32		1
Anthracene	ND		10		ug/Kg		05/05/19 12:06	05/05/19 14:32		1
Fluoranthene	ND		10		ug/Kg		05/05/19 12:06	05/05/19 14:32		1
Pyrene	ND		10		ug/Kg		05/05/19 12:06	05/05/19 14:32		1
Benzo[a]anthracene	ND		10		ug/Kg		05/05/19 12:06	05/05/19 14:32		1
Chrysene	ND		10		ug/Kg		05/05/19 12:06	05/05/19 14:32		1
Benzo[b]fluoranthene	ND		10		ug/Kg		05/05/19 12:06	05/05/19 14:32		1
Benzo[k]fluoranthene	ND		10		ug/Kg		05/05/19 12:06	05/05/19 14:32		1
Benzo[a]pyrene	ND		10		ug/Kg		05/05/19 12:06	05/05/19 14:32		1
Indeno[1,2,3-cd]pyrene	ND		10		ug/Kg		05/05/19 12:06	05/05/19 14:32		1
Dibenz(a,h)anthracene	ND		10		ug/Kg		05/05/19 12:06	05/05/19 14:32		1
Benzo[g,h,i]perylene	ND		10		ug/Kg		05/05/19 12:06	05/05/19 14:32		1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil	Fac
	%Recovery	Qualifier					
Nitrobenzene-d5	85		31 - 120	05/05/19 12:06	05/05/19 14:32		1
2-Fluorobiphenyl (Surr)	89		46 - 120	05/05/19 12:06	05/05/19 14:32		1
p-Terphenyl-d14	113		61 - 136	05/05/19 12:06	05/05/19 14:32		1

QC Sample Results

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014001

Job ID: 590-10868-1

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

Lab Sample ID: LCS 590-22033/2-A
Matrix: Solid
Analysis Batch: 22032

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 22033

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Naphthalene	267	144		ug/Kg		54	33 - 120
2-Methylnaphthalene	267	156		ug/Kg		58	48 - 120
1-Methylnaphthalene	267	150		ug/Kg		56	55 - 120
Acenaphthylene	267	175		ug/Kg		66	47 - 120
Acenaphthene	267	180		ug/Kg		68	53 - 120
Fluorene	267	199		ug/Kg		75	54 - 120
Phenanthrene	267	211		ug/Kg		79	55 - 121
Anthracene	267	213		ug/Kg		80	60 - 129
Fluoranthene	267	236		ug/Kg		89	63 - 127
Pyrene	267	229		ug/Kg		86	62 - 125
Benzo[a]anthracene	267	239		ug/Kg		90	61 - 125
Chrysene	267	243		ug/Kg		91	57 - 127
Benzo[b]fluoranthene	267	238		ug/Kg		89	59 - 127
Benzo[k]fluoranthene	267	247		ug/Kg		93	63 - 127
Benzo[a]pyrene	267	226		ug/Kg		85	60 - 120
Indeno[1,2,3-cd]pyrene	267	242		ug/Kg		91	55 - 128
Dibenz(a,h)anthracene	267	248		ug/Kg		93	60 - 128
Benzo[g,h,i]perylene	267	231		ug/Kg		87	58 - 129

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Nitrobenzene-d5	65		31 - 120
2-Fluorobiphenyl (Surr)	75		46 - 120
p-Terphenyl-d14	99		61 - 136

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 590-21935/2-A
Matrix: Solid
Analysis Batch: 22021

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 21935

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		3.0		mg/Kg		04/29/19 09:52	05/03/19 10:05	1

Lab Sample ID: LCS 590-21935/1-A
Matrix: Solid
Analysis Batch: 22021

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 21935

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	50.0	54.5		mg/Kg		109	80 - 120

Lab Sample ID: 590-10868-1 MS
Matrix: Solid
Analysis Batch: 22021

Client Sample ID: B-3(0-6)
Prep Type: Total/NA
Prep Batch: 21935

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	22	F1	55.2	59.8	F1	mg/Kg	☼	69	75 - 125

Eurofins TestAmerica, Spokane

QC Sample Results

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014001

Job ID: 590-10868-1

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

Lab Sample ID: 590-10868-1 MSD
Matrix: Solid
Analysis Batch: 22021

Client Sample ID: B-3(0-6)
Prep Type: Total/NA
Prep Batch: 21935

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead	22	F1	55.2	58.4	F1	mg/Kg	☼	66	75 - 125	2	20

Lab Sample ID: 590-10868-1 DU
Matrix: Solid
Analysis Batch: 22021

Client Sample ID: B-3(0-6)
Prep Type: Total/NA
Prep Batch: 21935

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Lead	22	F1	11.0	F3	mg/Kg	☼	66	20

Lab Chronicle

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014001

Job ID: 590-10868-1

Client Sample ID: B-3(0-6)

Date Collected: 04/25/19 10:50

Date Received: 04/26/19 10:30

Lab Sample ID: 590-10868-1

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			21942	04/29/19 14:35	SJK	TAL SPK

Client Sample ID: B-3(0-6)

Date Collected: 04/25/19 10:50

Date Received: 04/26/19 10:30

Lab Sample ID: 590-10868-1

Matrix: Solid

Percent Solids: 90.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			15.44 g	2 mL	21975	05/02/19 10:10	NMI	TAL SPK
Total/NA	Analysis	8270D SIM		1			21991	05/02/19 13:39	NMI	TAL SPK
Total/NA	Prep	3050B			1.00 g	50 mL	21935	04/29/19 09:52	SJK	TAL SPK
Total/NA	Analysis	6010C		1			22021	05/03/19 10:08	JSP	TAL SPK

Client Sample ID: B-1(0-6)

Date Collected: 04/25/19 10:55

Date Received: 04/26/19 10:30

Lab Sample ID: 590-10868-3

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			21942	04/29/19 14:35	SJK	TAL SPK

Client Sample ID: B-1(0-6)

Date Collected: 04/25/19 10:55

Date Received: 04/26/19 10:30

Lab Sample ID: 590-10868-3

Matrix: Solid

Percent Solids: 88.1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			15.79 g	2 mL	21975	05/02/19 10:10	NMI	TAL SPK
Total/NA	Analysis	8270D SIM		1			21991	05/02/19 14:05	NMI	TAL SPK
Total/NA	Prep	3050B			1.00 g	50 mL	21935	04/29/19 09:52	SJK	TAL SPK
Total/NA	Analysis	6010C		1			22021	05/03/19 10:31	JSP	TAL SPK

Client Sample ID: B-4(0-6)

Date Collected: 04/25/19 11:00

Date Received: 04/26/19 10:30

Lab Sample ID: 590-10868-5

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			21942	04/29/19 14:35	SJK	TAL SPK

Client Sample ID: B-4(0-6)

Date Collected: 04/25/19 11:00

Date Received: 04/26/19 10:30

Lab Sample ID: 590-10868-5

Matrix: Solid

Percent Solids: 85.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			15.08 g	2 mL	21975	05/02/19 10:10	NMI	TAL SPK
Total/NA	Analysis	8270D SIM		1			21991	05/02/19 14:31	NMI	TAL SPK
Total/NA	Prep	3050B			1.01 g	50 mL	21935	04/29/19 09:52	SJK	TAL SPK
Total/NA	Analysis	6010C		1			22021	05/03/19 10:35	JSP	TAL SPK

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Lab Chronicle

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014001

Job ID: 590-10868-1

Client Sample ID: B-2(0-6)

Date Collected: 04/25/19 11:10

Date Received: 04/26/19 10:30

Lab Sample ID: 590-10868-7

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			21968	05/01/19 08:43	NMI	TAL SPK

Client Sample ID: B-2(0-6)

Date Collected: 04/25/19 11:10

Date Received: 04/26/19 10:30

Lab Sample ID: 590-10868-7

Matrix: Solid

Percent Solids: 83.3

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	21975	05/02/19 10:10	NMI	TAL SPK
Total/NA	Analysis	8270D SIM		1			21991	05/02/19 14:58	NMI	TAL SPK

Client Sample ID: B-5(0-6)

Date Collected: 04/25/19 11:35

Date Received: 04/26/19 10:30

Lab Sample ID: 590-10868-9

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			21942	04/29/19 14:35	SJK	TAL SPK

Client Sample ID: B-5(0-6)

Date Collected: 04/25/19 11:35

Date Received: 04/26/19 10:30

Lab Sample ID: 590-10868-9

Matrix: Solid

Percent Solids: 86.1

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	21975	05/02/19 10:10	NMI	TAL SPK
Total/NA	Analysis	8270D SIM		1			21991	05/02/19 13:12	NMI	TAL SPK
Total/NA	Prep	3050B			1.00 g	50 mL	21935	04/29/19 09:52	SJK	TAL SPK
Total/NA	Analysis	6010C		1			22021	05/03/19 10:48	JSP	TAL SPK

Client Sample ID: B-6(0-6)

Date Collected: 04/25/19 11:40

Date Received: 04/26/19 10:30

Lab Sample ID: 590-10868-11

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			21942	04/29/19 14:35	SJK	TAL SPK

Client Sample ID: B-6(0-6)

Date Collected: 04/25/19 11:40

Date Received: 04/26/19 10:30

Lab Sample ID: 590-10868-11

Matrix: Solid

Percent Solids: 75.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			15.38 g	2 mL	21975	05/02/19 10:10	NMI	TAL SPK
Total/NA	Analysis	8270D SIM		1			21991	05/02/19 15:24	NMI	TAL SPK
Total/NA	Prep	3050B			1.58 g	50 mL	21935	04/29/19 09:52	SJK	TAL SPK
Total/NA	Analysis	6010C		1			22021	05/03/19 10:52	JSP	TAL SPK

Lab Chronicle

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014001

Job ID: 590-10868-1

Client Sample ID: B-7(0-6)

Date Collected: 04/25/19 12:00

Date Received: 04/26/19 10:30

Lab Sample ID: 590-10868-13

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			21942	04/29/19 14:35	SJK	TAL SPK

Client Sample ID: B-7(0-6)

Date Collected: 04/25/19 12:00

Date Received: 04/26/19 10:30

Lab Sample ID: 590-10868-13

Matrix: Solid

Percent Solids: 85.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			15.71 g	2 mL	21975	05/02/19 10:10	NMI	TAL SPK
Total/NA	Analysis	8270D SIM		1			21991	05/02/19 15:50	NMI	TAL SPK
Total/NA	Prep	3050B			1.00 g	50 mL	21935	04/29/19 09:52	SJK	TAL SPK
Total/NA	Analysis	6010C		1			22021	05/03/19 10:55	JSP	TAL SPK

Client Sample ID: B-8(0-6)

Date Collected: 04/25/19 12:10

Date Received: 04/26/19 10:30

Lab Sample ID: 590-10868-15

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			21942	04/29/19 14:35	SJK	TAL SPK

Client Sample ID: B-8(0-6)

Date Collected: 04/25/19 12:10

Date Received: 04/26/19 10:30

Lab Sample ID: 590-10868-15

Matrix: Solid

Percent Solids: 78.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			15.90 g	2 mL	21975	05/02/19 10:10	NMI	TAL SPK
Total/NA	Analysis	8270D SIM		1			21991	05/02/19 16:16	NMI	TAL SPK
Total/NA	Prep	3050B			1.01 g	50 mL	21935	04/29/19 09:52	SJK	TAL SPK
Total/NA	Analysis	6010C		1			22021	05/03/19 10:59	JSP	TAL SPK

Client Sample ID: B-14(0-6)

Date Collected: 04/25/19 12:20

Date Received: 04/26/19 10:30

Lab Sample ID: 590-10868-17

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			21942	04/29/19 14:35	SJK	TAL SPK

Client Sample ID: B-14(0-6)

Date Collected: 04/25/19 12:20

Date Received: 04/26/19 10:30

Lab Sample ID: 590-10868-17

Matrix: Solid

Percent Solids: 78.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			15.26 g	2 mL	21975	05/02/19 10:10	NMI	TAL SPK
Total/NA	Analysis	8270D SIM		100			21991	05/02/19 16:43	NMI	TAL SPK
Total/NA	Prep	3050B			1.00 g	50 mL	21935	04/29/19 09:52	SJK	TAL SPK
Total/NA	Analysis	6010C		1			22021	05/03/19 11:03	JSP	TAL SPK

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Lab Chronicle

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014001

Job ID: 590-10868-1

Client Sample ID: B-16(0-14)

Date Collected: 04/25/19 12:30

Date Received: 04/26/19 10:30

Lab Sample ID: 590-10868-20

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			21968	05/01/19 08:43	NMI	TAL SPK

Client Sample ID: B-16(0-14)

Date Collected: 04/25/19 12:30

Date Received: 04/26/19 10:30

Lab Sample ID: 590-10868-20

Matrix: Solid

Percent Solids: 70.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			15.30 g	2 mL	21975	05/02/19 10:10	NMI	TAL SPK
Total/NA	Analysis	8270D SIM		1			21991	05/02/19 17:09	NMI	TAL SPK
Total/NA	Prep	3550C			15.30 g	2 mL	21975	05/02/19 10:10	NMI	TAL SPK
Total/NA	Analysis	8270D SIM		10			22032	05/05/19 13:13	NMI	TAL SPK

Client Sample ID: B-17(0-6)

Date Collected: 04/25/19 12:40

Date Received: 04/26/19 10:30

Lab Sample ID: 590-10868-22

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			21968	05/01/19 08:43	NMI	TAL SPK

Client Sample ID: B-17(0-6)

Date Collected: 04/25/19 12:40

Date Received: 04/26/19 10:30

Lab Sample ID: 590-10868-22

Matrix: Solid

Percent Solids: 89.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			15.98 g	2 mL	21975	05/02/19 10:10	NMI	TAL SPK
Total/NA	Analysis	8270D SIM		100			21991	05/02/19 17:35	NMI	TAL SPK

Client Sample ID: B-18(0-6)

Date Collected: 04/25/19 13:25

Date Received: 04/26/19 10:30

Lab Sample ID: 590-10868-24

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			21968	05/01/19 08:43	NMI	TAL SPK

Client Sample ID: B-18(0-6)

Date Collected: 04/25/19 13:25

Date Received: 04/26/19 10:30

Lab Sample ID: 590-10868-24

Matrix: Solid

Percent Solids: 85.0

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	21975	05/02/19 10:10	NMI	TAL SPK
Total/NA	Analysis	8270D SIM		10			22032	05/05/19 13:39	NMI	TAL SPK

Lab Chronicle

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014001

Job ID: 590-10868-1

Client Sample ID: B-19(0-6)

Date Collected: 04/25/19 13:40

Date Received: 04/26/19 10:30

Lab Sample ID: 590-10868-27

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			21942	04/29/19 14:35	SJK	TAL SPK

Client Sample ID: B-19(0-6)

Date Collected: 04/25/19 13:40

Date Received: 04/26/19 10:30

Lab Sample ID: 590-10868-27

Matrix: Solid

Percent Solids: 85.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			15.60 g	2 mL	21975	05/02/19 10:10	NMI	TAL SPK
Total/NA	Analysis	8270D SIM		1			21991	05/02/19 18:28	NMI	TAL SPK
Total/NA	Prep	3050B			1.01 g	50 mL	21935	04/29/19 09:52	SJK	TAL SPK
Total/NA	Analysis	6010C		1			22021	05/03/19 11:07	JSP	TAL SPK

Client Sample ID: B-15(0-6)

Date Collected: 04/25/19 13:50

Date Received: 04/26/19 10:30

Lab Sample ID: 590-10868-29

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			21942	04/29/19 14:35	SJK	TAL SPK

Client Sample ID: B-15(0-6)

Date Collected: 04/25/19 13:50

Date Received: 04/26/19 10:30

Lab Sample ID: 590-10868-29

Matrix: Solid

Percent Solids: 84.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			15.08 g	2 mL	21975	05/02/19 10:10	NMI	TAL SPK
Total/NA	Analysis	8270D SIM		1			21991	05/02/19 18:54	NMI	TAL SPK
Total/NA	Prep	3550C			15.08 g	2 mL	21975	05/02/19 10:10	NMI	TAL SPK
Total/NA	Analysis	8270D SIM		10			22032	05/05/19 14:06	NMI	TAL SPK
Total/NA	Prep	3050B			1.00 g	50 mL	21935	04/29/19 09:52	SJK	TAL SPK
Total/NA	Analysis	6010C		1			22021	05/03/19 11:10	JSP	TAL SPK

Client Sample ID: B-11(36)

Date Collected: 04/25/19 14:05

Date Received: 04/26/19 10:30

Lab Sample ID: 590-10868-31

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			21942	04/29/19 14:35	SJK	TAL SPK

Client Sample ID: B-11(36)

Date Collected: 04/25/19 14:05

Date Received: 04/26/19 10:30

Lab Sample ID: 590-10868-31

Matrix: Solid

Percent Solids: 89.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			16.12 g	2 mL	21975	05/02/19 10:10	NMI	TAL SPK
Total/NA	Analysis	8270D SIM		1			21991	05/02/19 19:21	NMI	TAL SPK

Lab Chronicle

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014001

Job ID: 590-10868-1

Client Sample ID: B-11(36)

Date Collected: 04/25/19 14:05

Date Received: 04/26/19 10:30

Lab Sample ID: 590-10868-31

Matrix: Solid

Percent Solids: 89.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			1.25 g	50 mL	21935	04/29/19 09:52	SJK	TAL SPK
Total/NA	Analysis	6010C		1			22021	05/03/19 11:14	JSP	TAL SPK

Client Sample ID: B-9(36)

Date Collected: 04/25/19 14:06

Date Received: 04/26/19 10:30

Lab Sample ID: 590-10868-32

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			21942	04/29/19 14:35	SJK	TAL SPK

Client Sample ID: B-9(36)

Date Collected: 04/25/19 14:06

Date Received: 04/26/19 10:30

Lab Sample ID: 590-10868-32

Matrix: Solid

Percent Solids: 89.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			15.76 g	2 mL	21975	05/02/19 10:10	NMI	TAL SPK
Total/NA	Analysis	8270D SIM		1			21991	05/02/19 19:47	NMI	TAL SPK
Total/NA	Prep	3050B			1.24 g	50 mL	21935	04/29/19 09:52	SJK	TAL SPK
Total/NA	Analysis	6010C		1			22021	05/03/19 11:18	JSP	TAL SPK

Client Sample ID: B-10(36)

Date Collected: 04/25/19 14:20

Date Received: 04/26/19 10:30

Lab Sample ID: 590-10868-34

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			21942	04/29/19 14:35	SJK	TAL SPK

Client Sample ID: B-10(36)

Date Collected: 04/25/19 14:20

Date Received: 04/26/19 10:30

Lab Sample ID: 590-10868-34

Matrix: Solid

Percent Solids: 89.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			15.18 g	2 mL	21975	05/02/19 10:10	NMI	TAL SPK
Total/NA	Analysis	8270D SIM		1			21991	05/02/19 20:13	NMI	TAL SPK
Total/NA	Prep	3050B			1.40 g	50 mL	21935	04/29/19 09:52	SJK	TAL SPK
Total/NA	Analysis	6010C		1			22021	05/03/19 11:22	JSP	TAL SPK

Client Sample ID: B-12(96)

Date Collected: 04/25/19 14:25

Date Received: 04/26/19 10:30

Lab Sample ID: 590-10868-35

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			21942	04/29/19 14:35	SJK	TAL SPK

Lab Chronicle

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014001

Job ID: 590-10868-1

Client Sample ID: B-12(96)

Date Collected: 04/25/19 14:25

Date Received: 04/26/19 10:30

Lab Sample ID: 590-10868-35

Matrix: Solid

Percent Solids: 91.2

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	21975	05/02/19 10:10	NMI	TAL SPK
Total/NA	Analysis	8270D SIM		100			21991	05/02/19 20:40	NMI	TAL SPK
Total/NA	Prep	3050B			1.25 g	50 mL	21935	04/29/19 09:52	SJK	TAL SPK
Total/NA	Analysis	6010C		1			22021	05/03/19 11:35	JSP	TAL SPK

Client Sample ID: B-13(42)

Date Collected: 04/25/19 14:45

Date Received: 04/26/19 10:30

Lab Sample ID: 590-10868-36

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			21942	04/29/19 14:35	SJK	TAL SPK

Client Sample ID: B-13(42)

Date Collected: 04/25/19 14:45

Date Received: 04/26/19 10:30

Lab Sample ID: 590-10868-36

Matrix: Solid

Percent Solids: 92.1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			15.38 g	2 mL	21975	05/02/19 10:10	NMI	TAL SPK
Total/NA	Analysis	8270D SIM		1			21991	05/02/19 21:06	NMI	TAL SPK
Total/NA	Prep	3050B			1.29 g	50 mL	21935	04/29/19 09:52	SJK	TAL SPK
Total/NA	Analysis	6010C		1			22021	05/03/19 11:39	JSP	TAL SPK

Client Sample ID: TP-41(24-36)

Date Collected: 04/25/19 15:15

Date Received: 04/26/19 10:30

Lab Sample ID: 590-10868-40

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			21942	04/29/19 14:35	SJK	TAL SPK

Client Sample ID: TP-41(24-36)

Date Collected: 04/25/19 15:15

Date Received: 04/26/19 10:30

Lab Sample ID: 590-10868-40

Matrix: Solid

Percent Solids: 86.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			15.02 g	2 mL	21975	05/02/19 10:10	NMI	TAL SPK
Total/NA	Analysis	8270D SIM		1			21991	05/02/19 21:32	NMI	TAL SPK
Total/NA	Prep	3050B			1.41 g	50 mL	21935	04/29/19 09:52	SJK	TAL SPK
Total/NA	Analysis	6010C		1			22021	05/03/19 11:43	JSP	TAL SPK

Client Sample ID: TP-53(24-36)

Date Collected: 04/25/19 15:20

Date Received: 04/26/19 10:30

Lab Sample ID: 590-10868-41

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			21942	04/29/19 14:35	SJK	TAL SPK

Lab Chronicle

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014001

Job ID: 590-10868-1

Client Sample ID: TP-53(24-36)

Date Collected: 04/25/19 15:20

Date Received: 04/26/19 10:30

Lab Sample ID: 590-10868-41

Matrix: Solid

Percent Solids: 84.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			15.30 g	2 mL	22033	05/05/19 12:06	NMI	TAL SPK
Total/NA	Analysis	8270D SIM		1			22032	05/05/19 15:25	NMI	TAL SPK
Total/NA	Prep	3050B			1.35 g	50 mL	21935	04/29/19 09:52	SJK	TAL SPK
Total/NA	Analysis	6010C		1			22021	05/03/19 11:46	JSP	TAL SPK

Client Sample ID: TP-52(24-36)

Date Collected: 04/25/19 15:30

Date Received: 04/26/19 10:30

Lab Sample ID: 590-10868-42

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			21968	05/01/19 08:43	NMI	TAL SPK

Client Sample ID: TP-52(24-36)

Date Collected: 04/25/19 15:30

Date Received: 04/26/19 10:30

Lab Sample ID: 590-10868-42

Matrix: Solid

Percent Solids: 92.3

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	22033	05/05/19 12:06	NMI	TAL SPK
Total/NA	Analysis	8270D SIM		1			22032	05/05/19 15:51	NMI	TAL SPK

Client Sample ID: TP-54(24-36)

Date Collected: 04/25/19 15:40

Date Received: 04/26/19 10:30

Lab Sample ID: 590-10868-43

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			21968	05/01/19 08:43	NMI	TAL SPK

Client Sample ID: TP-54(24-36)

Date Collected: 04/25/19 15:40

Date Received: 04/26/19 10:30

Lab Sample ID: 590-10868-43

Matrix: Solid

Percent Solids: 85.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			15.68 g	2 mL	22033	05/05/19 12:06	NMI	TAL SPK
Total/NA	Analysis	8270D SIM		1			22032	05/05/19 16:17	NMI	TAL SPK

Client Sample ID: TP-55(24-36)

Date Collected: 04/25/19 15:45

Date Received: 04/26/19 10:30

Lab Sample ID: 590-10868-44

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			21968	05/01/19 08:43	NMI	TAL SPK

Lab Chronicle

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014001

Job ID: 590-10868-1

Client Sample ID: TP-55(24-36)

Lab Sample ID: 590-10868-44

Date Collected: 04/25/19 15:45

Matrix: Solid

Date Received: 04/26/19 10:30

Percent Solids: 92.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			16.03 g	2 mL	22033	05/05/19 12:06	NMI	TAL SPK
Total/NA	Analysis	8270D SIM		1			22032	05/05/19 16:44	NMI	TAL SPK

Client Sample ID: TP-56(24-36)

Lab Sample ID: 590-10868-45

Date Collected: 04/25/19 16:00

Matrix: Solid

Date Received: 04/26/19 10:30

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			21942	04/29/19 14:35	SJK	TAL SPK

Client Sample ID: TP-56(24-36)

Lab Sample ID: 590-10868-45

Date Collected: 04/25/19 16:00

Matrix: Solid

Date Received: 04/26/19 10:30

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			15.37 g	2 mL	22033	05/05/19 12:06	NMI	TAL SPK
Total/NA	Analysis	8270D SIM		1			22032	05/05/19 17:10	NMI	TAL SPK
Total/NA	Prep	3050B			1.31 g	50 mL	21935	04/29/19 09:52	SJK	TAL SPK
Total/NA	Analysis	6010C		1			22021	05/03/19 11:50	JSP	TAL SPK

Client Sample ID: TP-39(36)

Lab Sample ID: 590-10868-46

Date Collected: 04/25/19 15:10

Matrix: Solid

Date Received: 04/26/19 10:30

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			21942	04/29/19 14:35	SJK	TAL SPK

Client Sample ID: TP-39(36)

Lab Sample ID: 590-10868-46

Date Collected: 04/25/19 15:10

Matrix: Solid

Date Received: 04/26/19 10:30

Percent Solids: 90.2

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	22033	05/05/19 12:06	NMI	TAL SPK
Total/NA	Analysis	8270D SIM		1			22032	05/05/19 17:36	NMI	TAL SPK
Total/NA	Prep	3050B			1.41 g	50 mL	21935	04/29/19 09:52	SJK	TAL SPK
Total/NA	Analysis	6010C		1			22021	05/03/19 11:54	JSP	TAL SPK

Laboratory References:

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

Accreditation/Certification Summary

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014001

Job ID: 590-10868-1

Laboratory: Eurofins 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	01-06-20

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

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

Method Summary

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014001

Job ID: 590-10868-1

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

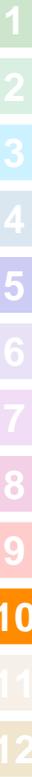
Protocol References:

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



Sample Custody Record

Samples Shipped to: TEST AMERICA



PAGE 1 OF 4

Hart Crowser, Inc.
3131 Elliott Avenue, Suite 600
Seattle, Washington 98121
Office: 206.324.9530 • Fax 206.328.5581

JOB <u>150014001</u> LAB NUMBER _____						REQUESTED ANALYSIS										NO. OF CONTAINERS	OBSERVATIONS/COMMENTS/ COMPOSITING INSTRUCTIONS			
PROJECT NAME <u>CVSD</u>																				
HART CROWSER CONTACT <u>JOHN HANEY</u>																590-10868 Chain of Custody				
SAMPLED BY: <u>W. McDONALD</u>																				
LAB NO.	SAMPLE ID	DESCRIPTION	DATE	TIME	MATRIX															
	B-3(0-6)		4/25/19	1050	SOIL	X	X													
	B-3(6-12)			1051																Hold
	B-1(0-6)			1055		X	X													Hold
	B-1(6-12)			1056																Hold
	B-4(0-6)			1100		X	X													Hold WDM
	B-4(6-12)			1101																Hold
	B-2(0-6)			1110		X														Hold
	B-2(6-12)			1111																Hold
	B-5(0-6)			1135		X	X													Hold
	B-5(6-12)			1136																Hold
	B-6(0-6)			1140		X	X													Hold
	B-6(6-12)			1141																Hold
RELINQUISHED BY		DATE	RECEIVED BY		DATE	SPECIAL SHIPMENT HANDLING OR STORAGE REQUIREMENTS:										TOTAL NUMBER OF CONTAINERS				
SIGNATURE <u>WARD McDONALD</u>		TIME	SIGNATURE <u>Watt Sudo</u>		TIME	Hold samples without analyte selected										SAMPLE RECEIPT INFORMATION				
PRINT NAME <u>HC</u>		DATE	PRINT NAME <u>TAL 510</u>		DATE											CUSTODY SEALS:				
COMPANY		TIME	COMPANY		TIME	GOOD CONDITION		SHIPMENT METHOD: <input type="checkbox"/> HAND <input type="checkbox"/> OVERNIGHT												
RELINQUISHED BY		DATE	RECEIVED BY		DATE	COOLER NO.:		STORAGE LOCATION:		TURNAROUND TIME:										
SIGNATURE		TIME	SIGNATURE		TIME	See Lab Work Order No. _____		See Lab Work Order No. _____		<input type="checkbox"/> 24 HOURS <input type="checkbox"/> 1 WEEK <input type="checkbox"/> 48 HOURS <input checked="" type="checkbox"/> STANDARD <input type="checkbox"/> 72 HOURS OTHER _____										
PRINT NAME		DATE	PRINT NAME		DATE	for Other Contract Requirements		for Other Contract Requirements												
COMPANY		DATE	COMPANY		DATE															

Sample Custody Record

Samples Shipped to: TEST AMERICA



PAGE 2 OF 4

Hart Crowser, Inc.
3131 Elliott Avenue, Suite 600
Seattle, Washington 98121
Office: 206.324.9530 • Fax 206.328.5581

JOB <u>150014001</u> LAB NUMBER _____						REQUESTED ANALYSIS										NO. OF CONTAINERS	OBSERVATIONS/COMMENTS/ COMPOSITING INSTRUCTIONS			
PROJECT NAME <u>CVSD</u>																				
HART CROWSER CONTACT <u>JOHN HANEY</u>																				
SAMPLED BY: <u>W. McDONALD</u>																				
LAB NO.	SAMPLE ID	DESCRIPTION	DATE	TIME	MATRIX	PAHS	LEAD													
	B-7(0-6)		4/15/19	1200	SOIL	X	X													
	B-7(6-12)			1201																Hold
	B-8(0-6)			1210		X	X													
	B-8(6-12)			1211																Hold
	B-14(0-6)			1220		X	X													
	B-14(6-12)			1221																Hold
	B-14(36)			1222		X	X													Hold
	B-16(0-14)			1230		X														Hold work
	B-16(14-30)			1231																Hold
	B-17(0-6)			1240		X														
	B-17(6-12)			1241																Hold
	B-18(0-6)			1325		X														

RELINQUISHED BY <u>[Signature]</u> SIGNATURE <u>Walter McDonald</u> PRINT NAME <u>HC</u> COMPANY	DATE <u>4/26/19</u> TIME <u>1029</u>	RECEIVED BY <u>[Signature]</u> SIGNATURE <u>Matt Suda</u> PRINT NAME <u>JA-SPO</u> COMPANY	DATE <u>4-26-19</u> TIME <u>1030</u>	SPECIAL SHIPMENT HANDLING OR STORAGE REQUIREMENTS: <u>3.2°C (100°C)</u>	TOTAL NUMBER OF CONTAINERS
RELINQUISHED BY	DATE	RECEIVED BY	DATE	COOLER NO.:	STORAGE LOCATION:
SIGNATURE	TIME	SIGNATURE	TIME	See Lab Work Order No. _____	TURNAROUND TIME:
PRINT NAME		PRINT NAME		for Other Contract Requirements	<input type="checkbox"/> 24 HOURS <input type="checkbox"/> 1 WEEK
COMPANY		COMPANY			<input type="checkbox"/> 48 HOURS <input checked="" type="checkbox"/> STANDARD
					<input type="checkbox"/> 72 HOURS OTHER _____

Sample Custody Record

Samples Shipped to: TEST AMERICA



PAGE 4 OF 4

Hart Crowser, Inc.
3131 Elliott Avenue, Suite 600
Seattle, Washington 98121
Office: 206.324.9530 • Fax 206.328.5581

JOB <u>150614001</u> LAB NUMBER _____ PROJECT NAME <u>CVSD</u> HART CROWSER CONTACT <u>JOHN HANEY</u> SAMPLED BY: <u>W. McDONALD</u>						REQUESTED ANALYSIS <div style="display: flex; justify-content: space-between;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">PANS</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">LEAD</div> </div>										NO. OF CONTAINERS	OBSERVATIONS/COMMENTS/ COMPOSITING INSTRUCTIONS									
LAB NO.	SAMPLE ID	DESCRIPTION	DATE	TIME	MATRIX																					
	<u>B-13(36)</u>		<u>4/25/19</u>	<u>1443</u> <u>1505</u>	<u>SOIL</u>																					
	<u>TP-19(36-48)</u>			<u>1505</u>		<u>WASH</u>																				
	<u>TP-19(36)</u>			<u>1510</u>		X																				
	<u>TP-41(24-36)</u>			<u>1515</u>		X	X																			
	<u>TP-53(24-36)</u>			<u>1520</u>		X	X																			
	<u>TP-52(24-36)</u>			<u>1530</u>		X																				
	<u>TP-54(24-36)</u>			<u>1540</u>		X																				
	<u>TP-55(24-36)</u>			<u>1545</u>		X																				
	<u>TP-56(24-36)</u>			<u>1600</u>		X	X																			
	<u>TP-39(36)</u>			<u>1510</u>		X	X																			
RELINQUISHED BY			DATE	RECEIVED BY			DATE	SPECIAL SHIPMENT HANDLING OR STORAGE REQUIREMENTS:										TOTAL NUMBER OF CONTAINERS								
SIGNATURE <u>W. McDonald</u>			<u>4/26/19</u>	SIGNATURE <u>Matt Suda</u>			<u>4-26-19</u>	<u>3-2°C (100%)</u> COOLER NO.: _____ STORAGE LOCATION: _____ See Lab Work Order No. _____ for Other Contract Requirements										SAMPLE RECEIPT INFORMATION								
PRINT NAME <u>HE</u>			TIME	PRINT NAME <u>TA-580</u>			TIME											CUSTODY SEALS:								
COMPANY <u>1029</u>				COMPANY														<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								
RELINQUISHED BY			DATE	RECEIVED BY			DATE											TURNAROUND TIME:								
SIGNATURE			TIME	SIGNATURE			TIME	<input type="checkbox"/> 24 HOURS <input type="checkbox"/> 1 WEEK <input type="checkbox"/> 48 HOURS <input checked="" type="checkbox"/> STANDARD <input type="checkbox"/> 72 HOURS OTHER _____																		
PRINT NAME				PRINT NAME																						
COMPANY				COMPANY																						

Login Sample Receipt Checklist

Client: Hart Crowser, Inc.

Job Number: 590-10868-1

Login Number: 10868

List Number: 1

Creator: O'Toole, Maria C

List Source: Eurofins TestAmerica, Spokane

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	
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.



ANALYTICAL REPORT

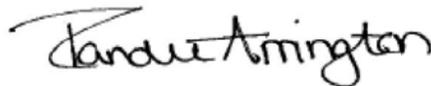
Eurofins TestAmerica, Spokane
11922 East 1st Ave
Spokane, WA 99206
Tel: (509)924-9200

Laboratory Job ID: 590-10868-2
Client Project/Site: CVSD/15014001

For:

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

Attn: John Haney



*Authorized for release by:
5/14/2019 9:26:39 AM*

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



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Case Narrative

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014001

Job ID: 590-10868-2

Job ID: 590-10868-2

Laboratory: Eurofins TestAmerica, Spokane

Narrative

Receipt

The samples were received on 4/26/2019 10:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.2° C.

Receipt Exceptions

The following samples were activated for 6010C Lead analysis by the client on 05/07/2019: B-1(6-12) (590-10868-4), B-4(6-12) (590-10868-6) and B-7(6-12) (590-10868-14).

The following samples were activated for 8270D SIM PAHs by the client on 05/07/2019: B-2(6-12) (590-10868-8), B-16(14-30) (590-10868-21), B-17(6-12) (590-10868-23), B-18(12-18) (590-10868-26), B-15(6-12) (590-10868-30) and TP-19(36-48) (590-10868-38).

The following samples were activated for 8270D SIM PAHs and 6010C Lead by the client on 05/07/2019: B-6(6-12) (590-10868-12), B-8(6-12) (590-10868-16) and B-14(36) (590-10868-19).

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: CVSD/15014001

Job ID: 590-10868-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
590-10868-4	B-1(6-12)	Solid	04/25/19 10:56	04/26/19 10:30
590-10868-6	B-4(6-12)	Solid	04/25/19 11:01	04/26/19 10:30
590-10868-8	B-2(6-12)	Solid	04/25/19 11:11	04/26/19 10:30
590-10868-12	B-6(6-12)	Solid	04/25/19 11:41	04/26/19 10:30
590-10868-14	B-7(6-12)	Solid	04/25/19 12:01	04/26/19 10:30
590-10868-16	B-8(6-12)	Solid	04/25/19 12:11	04/26/19 10:30
590-10868-19	B-14(36)	Solid	04/25/19 12:22	04/26/19 10:30
590-10868-21	B-16(14-30)	Solid	04/25/19 12:31	04/26/19 10:30
590-10868-23	B-17(6-12)	Solid	04/25/19 12:41	04/26/19 10:30
590-10868-26	B-18(12-18)	Solid	04/25/19 13:27	04/26/19 10:30
590-10868-30	B-15(6-12)	Solid	04/25/19 13:51	04/26/19 10:30
590-10868-38	TP-19(36-48)	Solid	04/25/19 15:05	04/26/19 10:30

Definitions/Glossary

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014001

Job ID: 590-10868-2

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: CVSD/15014001

Job ID: 590-10868-2

Client Sample ID: B-1(6-12)

Date Collected: 04/25/19 10:56

Date Received: 04/26/19 10:30

Lab Sample ID: 590-10868-4

Matrix: Solid

Percent Solids: 88.3

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	11		2.8		mg/Kg	☼	05/09/19 11:33	05/13/19 12:27	1

Client Sample ID: B-4(6-12)

Date Collected: 04/25/19 11:01

Date Received: 04/26/19 10:30

Lab Sample ID: 590-10868-6

Matrix: Solid

Percent Solids: 94.5

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	8.7		2.8		mg/Kg	☼	05/09/19 11:33	05/13/19 12:31	1

Client Sample ID: B-2(6-12)

Date Collected: 04/25/19 11:11

Date Received: 04/26/19 10:30

Lab Sample ID: 590-10868-8

Matrix: Solid

Percent Solids: 88.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		11		ug/Kg	☼	05/08/19 12:21	05/08/19 17:14	1
2-Methylnaphthalene	ND		11		ug/Kg	☼	05/08/19 12:21	05/08/19 17:14	1
1-Methylnaphthalene	ND		11		ug/Kg	☼	05/08/19 12:21	05/08/19 17:14	1
Acenaphthylene	ND		11		ug/Kg	☼	05/08/19 12:21	05/08/19 17:14	1
Acenaphthene	ND		11		ug/Kg	☼	05/08/19 12:21	05/08/19 17:14	1
Fluorene	ND		11		ug/Kg	☼	05/08/19 12:21	05/08/19 17:14	1
Phenanthrene	ND		11		ug/Kg	☼	05/08/19 12:21	05/08/19 17:14	1
Anthracene	ND		11		ug/Kg	☼	05/08/19 12:21	05/08/19 17:14	1
Fluoranthene	ND		11		ug/Kg	☼	05/08/19 12:21	05/08/19 17:14	1
Pyrene	ND		11		ug/Kg	☼	05/08/19 12:21	05/08/19 17:14	1
Benzo[a]anthracene	ND		11		ug/Kg	☼	05/08/19 12:21	05/08/19 17:14	1
Chrysene	ND		11		ug/Kg	☼	05/08/19 12:21	05/08/19 17:14	1
Benzo[b]fluoranthene	ND		11		ug/Kg	☼	05/08/19 12:21	05/08/19 17:14	1
Benzo[k]fluoranthene	ND		11		ug/Kg	☼	05/08/19 12:21	05/08/19 17:14	1
Benzo[a]pyrene	ND		11		ug/Kg	☼	05/08/19 12:21	05/08/19 17:14	1
Indeno[1,2,3-cd]pyrene	ND		11		ug/Kg	☼	05/08/19 12:21	05/08/19 17:14	1
Dibenz(a,h)anthracene	ND		11		ug/Kg	☼	05/08/19 12:21	05/08/19 17:14	1
Benzo[g,h,i]perylene	ND		11		ug/Kg	☼	05/08/19 12:21	05/08/19 17:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	70		31 - 120	05/08/19 12:21	05/08/19 17:14	1
2-Fluorobiphenyl (Surr)	80		46 - 120	05/08/19 12:21	05/08/19 17:14	1
p-Terphenyl-d14	104		61 - 136	05/08/19 12:21	05/08/19 17:14	1

Client Sample ID: B-6(6-12)

Date Collected: 04/25/19 11:41

Date Received: 04/26/19 10:30

Lab Sample ID: 590-10868-12

Matrix: Solid

Percent Solids: 89.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		11		ug/Kg	☼	05/08/19 12:21	05/08/19 17:40	1
2-Methylnaphthalene	ND		11		ug/Kg	☼	05/08/19 12:21	05/08/19 17:40	1
1-Methylnaphthalene	ND		11		ug/Kg	☼	05/08/19 12:21	05/08/19 17:40	1
Acenaphthylene	ND		11		ug/Kg	☼	05/08/19 12:21	05/08/19 17:40	1
Acenaphthene	ND		11		ug/Kg	☼	05/08/19 12:21	05/08/19 17:40	1

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Client Sample Results

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014001

Job ID: 590-10868-2

Client Sample ID: B-6(6-12)

Lab Sample ID: 590-10868-12

Date Collected: 04/25/19 11:41

Matrix: Solid

Date Received: 04/26/19 10:30

Percent Solids: 89.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluorene	ND		11		ug/Kg	☼	05/08/19 12:21	05/08/19 17:40	1
Phenanthrene	ND		11		ug/Kg	☼	05/08/19 12:21	05/08/19 17:40	1
Anthracene	ND		11		ug/Kg	☼	05/08/19 12:21	05/08/19 17:40	1
Fluoranthene	ND		11		ug/Kg	☼	05/08/19 12:21	05/08/19 17:40	1
Pyrene	ND		11		ug/Kg	☼	05/08/19 12:21	05/08/19 17:40	1
Benzo[a]anthracene	ND		11		ug/Kg	☼	05/08/19 12:21	05/08/19 17:40	1
Chrysene	ND		11		ug/Kg	☼	05/08/19 12:21	05/08/19 17:40	1
Benzo[b]fluoranthene	ND		11		ug/Kg	☼	05/08/19 12:21	05/08/19 17:40	1
Benzo[k]fluoranthene	ND		11		ug/Kg	☼	05/08/19 12:21	05/08/19 17:40	1
Benzo[a]pyrene	ND		11		ug/Kg	☼	05/08/19 12:21	05/08/19 17:40	1
Indeno[1,2,3-cd]pyrene	ND		11		ug/Kg	☼	05/08/19 12:21	05/08/19 17:40	1
Dibenz(a,h)anthracene	ND		11		ug/Kg	☼	05/08/19 12:21	05/08/19 17:40	1
Benzo[g,h,i]perylene	ND		11		ug/Kg	☼	05/08/19 12:21	05/08/19 17:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	85		31 - 120				05/08/19 12:21	05/08/19 17:40	1
2-Fluorobiphenyl (Surr)	93		46 - 120				05/08/19 12:21	05/08/19 17:40	1
p-Terphenyl-d14	113		61 - 136				05/08/19 12:21	05/08/19 17:40	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	7.1		3.0		mg/Kg	☼	05/09/19 11:33	05/13/19 12:34	1

Client Sample ID: B-7(6-12)

Lab Sample ID: 590-10868-14

Date Collected: 04/25/19 12:01

Matrix: Solid

Date Received: 04/26/19 10:30

Percent Solids: 88.2

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	10		2.3		mg/Kg	☼	05/09/19 11:33	05/13/19 12:38	1

Client Sample ID: B-8(6-12)

Lab Sample ID: 590-10868-16

Date Collected: 04/25/19 12:11

Matrix: Solid

Date Received: 04/26/19 10:30

Percent Solids: 83.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		12		ug/Kg	☼	05/08/19 12:21	05/08/19 18:06	1
2-Methylnaphthalene	ND		12		ug/Kg	☼	05/08/19 12:21	05/08/19 18:06	1
1-Methylnaphthalene	ND		12		ug/Kg	☼	05/08/19 12:21	05/08/19 18:06	1
Acenaphthylene	ND		12		ug/Kg	☼	05/08/19 12:21	05/08/19 18:06	1
Acenaphthene	ND		12		ug/Kg	☼	05/08/19 12:21	05/08/19 18:06	1
Fluorene	ND		12		ug/Kg	☼	05/08/19 12:21	05/08/19 18:06	1
Phenanthrene	ND		12		ug/Kg	☼	05/08/19 12:21	05/08/19 18:06	1
Anthracene	ND		12		ug/Kg	☼	05/08/19 12:21	05/08/19 18:06	1
Fluoranthene	ND		12		ug/Kg	☼	05/08/19 12:21	05/08/19 18:06	1
Pyrene	ND		12		ug/Kg	☼	05/08/19 12:21	05/08/19 18:06	1
Benzo[a]anthracene	ND		12		ug/Kg	☼	05/08/19 12:21	05/08/19 18:06	1
Chrysene	ND		12		ug/Kg	☼	05/08/19 12:21	05/08/19 18:06	1
Benzo[b]fluoranthene	ND		12		ug/Kg	☼	05/08/19 12:21	05/08/19 18:06	1
Benzo[k]fluoranthene	ND		12		ug/Kg	☼	05/08/19 12:21	05/08/19 18:06	1

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Client Sample Results

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014001

Job ID: 590-10868-2

Client Sample ID: B-8(6-12)

Lab Sample ID: 590-10868-16

Date Collected: 04/25/19 12:11

Matrix: Solid

Date Received: 04/26/19 10:30

Percent Solids: 83.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	ND		12		ug/Kg	☼	05/08/19 12:21	05/08/19 18:06	1
Indeno[1,2,3-cd]pyrene	ND		12		ug/Kg	☼	05/08/19 12:21	05/08/19 18:06	1
Dibenz(a,h)anthracene	ND		12		ug/Kg	☼	05/08/19 12:21	05/08/19 18:06	1
Benzo[g,h,i]perylene	ND		12		ug/Kg	☼	05/08/19 12:21	05/08/19 18:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	85		31 - 120				05/08/19 12:21	05/08/19 18:06	1
2-Fluorobiphenyl (Surr)	89		46 - 120				05/08/19 12:21	05/08/19 18:06	1
p-Terphenyl-d14	108		61 - 136				05/08/19 12:21	05/08/19 18:06	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	8.5		2.5		mg/Kg	☼	05/09/19 11:33	05/13/19 12:42	1

Client Sample ID: B-14(36)

Lab Sample ID: 590-10868-19

Date Collected: 04/25/19 12:22

Matrix: Solid

Date Received: 04/26/19 10:30

Percent Solids: 90.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		11		ug/Kg	☼	05/08/19 12:21	05/08/19 18:33	1
2-Methylnaphthalene	ND		11		ug/Kg	☼	05/08/19 12:21	05/08/19 18:33	1
1-Methylnaphthalene	ND		11		ug/Kg	☼	05/08/19 12:21	05/08/19 18:33	1
Acenaphthylene	ND		11		ug/Kg	☼	05/08/19 12:21	05/08/19 18:33	1
Acenaphthene	ND		11		ug/Kg	☼	05/08/19 12:21	05/08/19 18:33	1
Fluorene	ND		11		ug/Kg	☼	05/08/19 12:21	05/08/19 18:33	1
Phenanthrene	ND		11		ug/Kg	☼	05/08/19 12:21	05/08/19 18:33	1
Anthracene	ND		11		ug/Kg	☼	05/08/19 12:21	05/08/19 18:33	1
Fluoranthene	ND		11		ug/Kg	☼	05/08/19 12:21	05/08/19 18:33	1
Pyrene	ND		11		ug/Kg	☼	05/08/19 12:21	05/08/19 18:33	1
Benzo[a]anthracene	ND		11		ug/Kg	☼	05/08/19 12:21	05/08/19 18:33	1
Chrysene	ND		11		ug/Kg	☼	05/08/19 12:21	05/08/19 18:33	1
Benzo[b]fluoranthene	ND		11		ug/Kg	☼	05/08/19 12:21	05/08/19 18:33	1
Benzo[k]fluoranthene	ND		11		ug/Kg	☼	05/08/19 12:21	05/08/19 18:33	1
Benzo[a]pyrene	ND		11		ug/Kg	☼	05/08/19 12:21	05/08/19 18:33	1
Indeno[1,2,3-cd]pyrene	ND		11		ug/Kg	☼	05/08/19 12:21	05/08/19 18:33	1
Dibenz(a,h)anthracene	ND		11		ug/Kg	☼	05/08/19 12:21	05/08/19 18:33	1
Benzo[g,h,i]perylene	ND		11		ug/Kg	☼	05/08/19 12:21	05/08/19 18:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	94		31 - 120				05/08/19 12:21	05/08/19 18:33	1
2-Fluorobiphenyl (Surr)	103		46 - 120				05/08/19 12:21	05/08/19 18:33	1
p-Terphenyl-d14	116		61 - 136				05/08/19 12:21	05/08/19 18:33	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	11		2.3		mg/Kg	☼	05/09/19 11:33	05/13/19 12:46	1

Client Sample Results

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014001

Job ID: 590-10868-2

Client Sample ID: B-16(14-30)

Lab Sample ID: 590-10868-21

Date Collected: 04/25/19 12:31

Matrix: Solid

Date Received: 04/26/19 10:30

Percent Solids: 83.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		12		ug/Kg	☼	05/08/19 12:21	05/08/19 18:59	1
2-Methylnaphthalene	ND		12		ug/Kg	☼	05/08/19 12:21	05/08/19 18:59	1
1-Methylnaphthalene	ND		12		ug/Kg	☼	05/08/19 12:21	05/08/19 18:59	1
Acenaphthylene	ND		12		ug/Kg	☼	05/08/19 12:21	05/08/19 18:59	1
Acenaphthene	ND		12		ug/Kg	☼	05/08/19 12:21	05/08/19 18:59	1
Fluorene	ND		12		ug/Kg	☼	05/08/19 12:21	05/08/19 18:59	1
Phenanthrene	ND		12		ug/Kg	☼	05/08/19 12:21	05/08/19 18:59	1
Anthracene	ND		12		ug/Kg	☼	05/08/19 12:21	05/08/19 18:59	1
Fluoranthene	ND		12		ug/Kg	☼	05/08/19 12:21	05/08/19 18:59	1
Pyrene	ND		12		ug/Kg	☼	05/08/19 12:21	05/08/19 18:59	1
Benzo[a]anthracene	ND		12		ug/Kg	☼	05/08/19 12:21	05/08/19 18:59	1
Chrysene	ND		12		ug/Kg	☼	05/08/19 12:21	05/08/19 18:59	1
Benzo[b]fluoranthene	ND		12		ug/Kg	☼	05/08/19 12:21	05/08/19 18:59	1
Benzo[k]fluoranthene	ND		12		ug/Kg	☼	05/08/19 12:21	05/08/19 18:59	1
Benzo[a]pyrene	ND		12		ug/Kg	☼	05/08/19 12:21	05/08/19 18:59	1
Indeno[1,2,3-cd]pyrene	ND		12		ug/Kg	☼	05/08/19 12:21	05/08/19 18:59	1
Dibenz(a,h)anthracene	ND		12		ug/Kg	☼	05/08/19 12:21	05/08/19 18:59	1
Benzo[g,h,i]perylene	ND		12		ug/Kg	☼	05/08/19 12:21	05/08/19 18:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	77		31 - 120	05/08/19 12:21	05/08/19 18:59	1
2-Fluorobiphenyl (Surr)	86		46 - 120	05/08/19 12:21	05/08/19 18:59	1
p-Terphenyl-d14	113		61 - 136	05/08/19 12:21	05/08/19 18:59	1

Client Sample ID: B-17(6-12)

Lab Sample ID: 590-10868-23

Date Collected: 04/25/19 12:41

Matrix: Solid

Date Received: 04/26/19 10:30

Percent Solids: 91.0

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	☼	05/08/19 12:21	05/08/19 19:26	1
2-Methylnaphthalene	ND		10		ug/Kg	☼	05/08/19 12:21	05/08/19 19:26	1
1-Methylnaphthalene	ND		10		ug/Kg	☼	05/08/19 12:21	05/08/19 19:26	1
Acenaphthylene	ND		10		ug/Kg	☼	05/08/19 12:21	05/08/19 19:26	1
Acenaphthene	ND		10		ug/Kg	☼	05/08/19 12:21	05/08/19 19:26	1
Fluorene	ND		10		ug/Kg	☼	05/08/19 12:21	05/08/19 19:26	1
Phenanthrene	ND		10		ug/Kg	☼	05/08/19 12:21	05/08/19 19:26	1
Anthracene	ND		10		ug/Kg	☼	05/08/19 12:21	05/08/19 19:26	1
Fluoranthene	ND		10		ug/Kg	☼	05/08/19 12:21	05/08/19 19:26	1
Pyrene	ND		10		ug/Kg	☼	05/08/19 12:21	05/08/19 19:26	1
Benzo[a]anthracene	ND		10		ug/Kg	☼	05/08/19 12:21	05/08/19 19:26	1
Chrysene	ND		10		ug/Kg	☼	05/08/19 12:21	05/08/19 19:26	1
Benzo[b]fluoranthene	11		10		ug/Kg	☼	05/08/19 12:21	05/08/19 19:26	1
Benzo[k]fluoranthene	ND		10		ug/Kg	☼	05/08/19 12:21	05/08/19 19:26	1
Benzo[a]pyrene	ND		10		ug/Kg	☼	05/08/19 12:21	05/08/19 19:26	1
Indeno[1,2,3-cd]pyrene	ND		10		ug/Kg	☼	05/08/19 12:21	05/08/19 19:26	1
Dibenz(a,h)anthracene	ND		10		ug/Kg	☼	05/08/19 12:21	05/08/19 19:26	1
Benzo[g,h,i]perylene	ND		10		ug/Kg	☼	05/08/19 12:21	05/08/19 19:26	1

Euofins TestAmerica, Spokane

Client Sample Results

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014001

Job ID: 590-10868-2

Client Sample ID: B-17(6-12)

Date Collected: 04/25/19 12:41

Date Received: 04/26/19 10:30

Lab Sample ID: 590-10868-23

Matrix: Solid
Percent Solids: 91.0

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	83		31 - 120	05/08/19 12:21	05/08/19 19:26	1
2-Fluorobiphenyl (Surr)	89		46 - 120	05/08/19 12:21	05/08/19 19:26	1
p-Terphenyl-d14	110		61 - 136	05/08/19 12:21	05/08/19 19:26	1

Client Sample ID: B-18(12-18)

Date Collected: 04/25/19 13:27

Date Received: 04/26/19 10:30

Lab Sample ID: 590-10868-26

Matrix: Solid
Percent Solids: 89.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		11		ug/Kg	☼	05/08/19 12:21	05/08/19 19:52	1
2-Methylnaphthalene	ND		11		ug/Kg	☼	05/08/19 12:21	05/08/19 19:52	1
1-Methylnaphthalene	ND		11		ug/Kg	☼	05/08/19 12:21	05/08/19 19:52	1
Acenaphthylene	ND		11		ug/Kg	☼	05/08/19 12:21	05/08/19 19:52	1
Acenaphthene	ND		11		ug/Kg	☼	05/08/19 12:21	05/08/19 19:52	1
Fluorene	ND		11		ug/Kg	☼	05/08/19 12:21	05/08/19 19:52	1
Phenanthrene	ND		11		ug/Kg	☼	05/08/19 12:21	05/08/19 19:52	1
Anthracene	ND		11		ug/Kg	☼	05/08/19 12:21	05/08/19 19:52	1
Fluoranthene	ND		11		ug/Kg	☼	05/08/19 12:21	05/08/19 19:52	1
Pyrene	ND		11		ug/Kg	☼	05/08/19 12:21	05/08/19 19:52	1
Benzo[a]anthracene	ND		11		ug/Kg	☼	05/08/19 12:21	05/08/19 19:52	1
Chrysene	ND		11		ug/Kg	☼	05/08/19 12:21	05/08/19 19:52	1
Benzo[b]fluoranthene	ND		11		ug/Kg	☼	05/08/19 12:21	05/08/19 19:52	1
Benzo[k]fluoranthene	ND		11		ug/Kg	☼	05/08/19 12:21	05/08/19 19:52	1
Benzo[a]pyrene	ND		11		ug/Kg	☼	05/08/19 12:21	05/08/19 19:52	1
Indeno[1,2,3-cd]pyrene	ND		11		ug/Kg	☼	05/08/19 12:21	05/08/19 19:52	1
Dibenz(a,h)anthracene	ND		11		ug/Kg	☼	05/08/19 12:21	05/08/19 19:52	1
Benzo[g,h,i]perylene	ND		11		ug/Kg	☼	05/08/19 12:21	05/08/19 19:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	78		31 - 120	05/08/19 12:21	05/08/19 19:52	1
2-Fluorobiphenyl (Surr)	86		46 - 120	05/08/19 12:21	05/08/19 19:52	1
p-Terphenyl-d14	113		61 - 136	05/08/19 12:21	05/08/19 19:52	1

Client Sample ID: B-15(6-12)

Date Collected: 04/25/19 13:51

Date Received: 04/26/19 10:30

Lab Sample ID: 590-10868-30

Matrix: Solid
Percent Solids: 89.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		11		ug/Kg	☼	05/08/19 12:21	05/08/19 20:18	1
2-Methylnaphthalene	ND		11		ug/Kg	☼	05/08/19 12:21	05/08/19 20:18	1
1-Methylnaphthalene	ND		11		ug/Kg	☼	05/08/19 12:21	05/08/19 20:18	1
Acenaphthylene	ND		11		ug/Kg	☼	05/08/19 12:21	05/08/19 20:18	1
Acenaphthene	ND		11		ug/Kg	☼	05/08/19 12:21	05/08/19 20:18	1
Fluorene	ND		11		ug/Kg	☼	05/08/19 12:21	05/08/19 20:18	1
Phenanthrene	ND		11		ug/Kg	☼	05/08/19 12:21	05/08/19 20:18	1
Anthracene	ND		11		ug/Kg	☼	05/08/19 12:21	05/08/19 20:18	1
Fluoranthene	ND		11		ug/Kg	☼	05/08/19 12:21	05/08/19 20:18	1
Pyrene	ND		11		ug/Kg	☼	05/08/19 12:21	05/08/19 20:18	1
Benzo[a]anthracene	ND		11		ug/Kg	☼	05/08/19 12:21	05/08/19 20:18	1

Eurofins TestAmerica, Spokane

Client Sample Results

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014001

Job ID: 590-10868-2

Client Sample ID: B-15(6-12)

Lab Sample ID: 590-10868-30

Date Collected: 04/25/19 13:51

Matrix: Solid

Date Received: 04/26/19 10:30

Percent Solids: 89.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	ND		11		ug/Kg	☼	05/08/19 12:21	05/08/19 20:18	1
Benzo[b]fluoranthene	ND		11		ug/Kg	☼	05/08/19 12:21	05/08/19 20:18	1
Benzo[k]fluoranthene	ND		11		ug/Kg	☼	05/08/19 12:21	05/08/19 20:18	1
Benzo[a]pyrene	ND		11		ug/Kg	☼	05/08/19 12:21	05/08/19 20:18	1
Indeno[1,2,3-cd]pyrene	ND		11		ug/Kg	☼	05/08/19 12:21	05/08/19 20:18	1
Dibenz(a,h)anthracene	ND		11		ug/Kg	☼	05/08/19 12:21	05/08/19 20:18	1
Benzo[g,h,i]perylene	ND		11		ug/Kg	☼	05/08/19 12:21	05/08/19 20:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	67		31 - 120	05/08/19 12:21	05/08/19 20:18	1
2-Fluorobiphenyl (Surr)	77		46 - 120	05/08/19 12:21	05/08/19 20:18	1
p-Terphenyl-d14	105		61 - 136	05/08/19 12:21	05/08/19 20:18	1

Client Sample ID: TP-19(36-48)

Lab Sample ID: 590-10868-38

Date Collected: 04/25/19 15:05

Matrix: Solid

Date Received: 04/26/19 10:30

Percent Solids: 91.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		11		ug/Kg	☼	05/08/19 12:21	05/08/19 20:45	1
2-Methylnaphthalene	ND		11		ug/Kg	☼	05/08/19 12:21	05/08/19 20:45	1
1-Methylnaphthalene	ND		11		ug/Kg	☼	05/08/19 12:21	05/08/19 20:45	1
Acenaphthylene	ND		11		ug/Kg	☼	05/08/19 12:21	05/08/19 20:45	1
Acenaphthene	ND		11		ug/Kg	☼	05/08/19 12:21	05/08/19 20:45	1
Fluorene	ND		11		ug/Kg	☼	05/08/19 12:21	05/08/19 20:45	1
Phenanthrene	ND		11		ug/Kg	☼	05/08/19 12:21	05/08/19 20:45	1
Anthracene	ND		11		ug/Kg	☼	05/08/19 12:21	05/08/19 20:45	1
Fluoranthene	ND		11		ug/Kg	☼	05/08/19 12:21	05/08/19 20:45	1
Pyrene	ND		11		ug/Kg	☼	05/08/19 12:21	05/08/19 20:45	1
Benzo[a]anthracene	ND		11		ug/Kg	☼	05/08/19 12:21	05/08/19 20:45	1
Chrysene	ND		11		ug/Kg	☼	05/08/19 12:21	05/08/19 20:45	1
Benzo[b]fluoranthene	ND		11		ug/Kg	☼	05/08/19 12:21	05/08/19 20:45	1
Benzo[k]fluoranthene	ND		11		ug/Kg	☼	05/08/19 12:21	05/08/19 20:45	1
Benzo[a]pyrene	ND		11		ug/Kg	☼	05/08/19 12:21	05/08/19 20:45	1
Indeno[1,2,3-cd]pyrene	ND		11		ug/Kg	☼	05/08/19 12:21	05/08/19 20:45	1
Dibenz(a,h)anthracene	ND		11		ug/Kg	☼	05/08/19 12:21	05/08/19 20:45	1
Benzo[g,h,i]perylene	ND		11		ug/Kg	☼	05/08/19 12:21	05/08/19 20:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	73		31 - 120	05/08/19 12:21	05/08/19 20:45	1
2-Fluorobiphenyl (Surr)	81		46 - 120	05/08/19 12:21	05/08/19 20:45	1
p-Terphenyl-d14	100		61 - 136	05/08/19 12:21	05/08/19 20:45	1

QC Sample Results

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014001

Job ID: 590-10868-2

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

Lab Sample ID: MB 590-22095/1-A
Matrix: Solid
Analysis Batch: 22094

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 22095

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		10		ug/Kg		05/08/19 12:21	05/08/19 14:37	1
2-Methylnaphthalene	ND		10		ug/Kg		05/08/19 12:21	05/08/19 14:37	1
1-Methylnaphthalene	ND		10		ug/Kg		05/08/19 12:21	05/08/19 14:37	1
Acenaphthylene	ND		10		ug/Kg		05/08/19 12:21	05/08/19 14:37	1
Acenaphthene	ND		10		ug/Kg		05/08/19 12:21	05/08/19 14:37	1
Fluorene	ND		10		ug/Kg		05/08/19 12:21	05/08/19 14:37	1
Phenanthrene	ND		10		ug/Kg		05/08/19 12:21	05/08/19 14:37	1
Anthracene	ND		10		ug/Kg		05/08/19 12:21	05/08/19 14:37	1
Fluoranthene	ND		10		ug/Kg		05/08/19 12:21	05/08/19 14:37	1
Pyrene	ND		10		ug/Kg		05/08/19 12:21	05/08/19 14:37	1
Benzo[a]anthracene	ND		10		ug/Kg		05/08/19 12:21	05/08/19 14:37	1
Chrysene	ND		10		ug/Kg		05/08/19 12:21	05/08/19 14:37	1
Benzo[b]fluoranthene	ND		10		ug/Kg		05/08/19 12:21	05/08/19 14:37	1
Benzo[k]fluoranthene	ND		10		ug/Kg		05/08/19 12:21	05/08/19 14:37	1
Benzo[a]pyrene	ND		10		ug/Kg		05/08/19 12:21	05/08/19 14:37	1
Indeno[1,2,3-cd]pyrene	ND		10		ug/Kg		05/08/19 12:21	05/08/19 14:37	1
Dibenz(a,h)anthracene	ND		10		ug/Kg		05/08/19 12:21	05/08/19 14:37	1
Benzo[g,h,i]perylene	ND		10		ug/Kg		05/08/19 12:21	05/08/19 14:37	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	102		31 - 120	05/08/19 12:21	05/08/19 14:37	1
2-Fluorobiphenyl (Surr)	108		46 - 120	05/08/19 12:21	05/08/19 14:37	1
p-Terphenyl-d14	125		61 - 136	05/08/19 12:21	05/08/19 14:37	1

Lab Sample ID: LCS 590-22095/2-A
Matrix: Solid
Analysis Batch: 22094

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 22095

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Naphthalene	267	208		ug/Kg		78	33 - 120
2-Methylnaphthalene	267	207		ug/Kg		78	48 - 120
1-Methylnaphthalene	267	209		ug/Kg		78	55 - 120
Acenaphthylene	267	236		ug/Kg		89	47 - 120
Acenaphthene	267	236		ug/Kg		88	53 - 120
Fluorene	267	240		ug/Kg		90	54 - 120
Phenanthrene	267	244		ug/Kg		92	55 - 121
Anthracene	267	254		ug/Kg		95	60 - 129
Fluoranthene	267	274		ug/Kg		103	63 - 127
Pyrene	267	264		ug/Kg		99	62 - 125
Benzo[a]anthracene	267	279		ug/Kg		105	61 - 125
Chrysene	267	278		ug/Kg		104	57 - 127
Benzo[b]fluoranthene	267	280		ug/Kg		105	59 - 127
Benzo[k]fluoranthene	267	274		ug/Kg		103	63 - 127
Benzo[a]pyrene	267	268		ug/Kg		101	60 - 120
Indeno[1,2,3-cd]pyrene	267	282		ug/Kg		106	55 - 128
Dibenz(a,h)anthracene	267	289		ug/Kg		108	60 - 128
Benzo[g,h,i]perylene	267	271		ug/Kg		102	58 - 129

Eurofins TestAmerica, Spokane

QC Sample Results

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014001

Job ID: 590-10868-2

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

Lab Sample ID: LCS 590-22095/2-A
Matrix: Solid
Analysis Batch: 22094

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 22095

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
Nitrobenzene-d5	91		31 - 120
2-Fluorobiphenyl (Surr)	97		46 - 120
p-Terphenyl-d14	121		61 - 136

Lab Sample ID: 590-10868-8 MS
Matrix: Solid
Analysis Batch: 22094

Client Sample ID: B-2(6-12)
Prep Type: Total/NA
Prep Batch: 22095

Analyte	Sample Result	Sample Qualifier	Spike Added	MS MS		Unit	D	%Rec	%Rec.	
				Result	Qualifier				Limits	RPD
Naphthalene	ND		287	204		ug/Kg	☼	71	33 - 120	
2-Methylnaphthalene	ND		287	215		ug/Kg	☼	75	48 - 120	
1-Methylnaphthalene	ND		287	216		ug/Kg	☼	75	55 - 120	
Acenaphthylene	ND		287	234		ug/Kg	☼	81	47 - 120	
Acenaphthene	ND		287	241		ug/Kg	☼	84	53 - 120	
Fluorene	ND		287	243		ug/Kg	☼	84	54 - 120	
Phenanthrene	ND		287	249		ug/Kg	☼	87	55 - 121	
Anthracene	ND		287	248		ug/Kg	☼	86	60 - 129	
Fluoranthene	ND		287	272		ug/Kg	☼	95	63 - 127	
Pyrene	ND		287	271		ug/Kg	☼	94	62 - 125	
Benzo[a]anthracene	ND		287	275		ug/Kg	☼	96	61 - 125	
Chrysene	ND		287	281		ug/Kg	☼	98	57 - 127	
Benzo[b]fluoranthene	ND		287	274		ug/Kg	☼	95	59 - 127	
Benzo[k]fluoranthene	ND		287	276		ug/Kg	☼	96	63 - 127	
Benzo[a]pyrene	ND		287	262		ug/Kg	☼	91	60 - 120	
Indeno[1,2,3-cd]pyrene	ND		287	272		ug/Kg	☼	95	55 - 128	
Dibenz(a,h)anthracene	ND		287	277		ug/Kg	☼	96	60 - 128	
Benzo[g,h,i]perylene	ND		287	266		ug/Kg	☼	93	58 - 129	

Surrogate	MS MS		Limits
	%Recovery	Qualifier	
Nitrobenzene-d5	83		31 - 120
2-Fluorobiphenyl (Surr)	89		46 - 120
p-Terphenyl-d14	110		61 - 136

Lab Sample ID: 590-10868-8 MSD
Matrix: Solid
Analysis Batch: 22094

Client Sample ID: B-2(6-12)
Prep Type: Total/NA
Prep Batch: 22095

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD MSD		Unit	D	%Rec	%Rec.		RPD	Limit
				Result	Qualifier				Limits	RPD		
Naphthalene	ND		301	185		ug/Kg	☼	61	33 - 120	10	35	
2-Methylnaphthalene	ND		301	212		ug/Kg	☼	70	48 - 120	2	23	
1-Methylnaphthalene	ND		301	221		ug/Kg	☼	73	55 - 120	2	24	
Acenaphthylene	ND		301	230		ug/Kg	☼	76	47 - 120	2	20	
Acenaphthene	ND		301	240		ug/Kg	☼	80	53 - 120	0	17	
Fluorene	ND		301	242		ug/Kg	☼	81	54 - 120	0	21	
Phenanthrene	ND		301	251		ug/Kg	☼	83	55 - 121	1	18	
Anthracene	ND		301	257		ug/Kg	☼	85	60 - 129	3	18	
Fluoranthene	ND		301	273		ug/Kg	☼	91	63 - 127	0	18	
Pyrene	ND		301	266		ug/Kg	☼	89	62 - 125	2	16	

Eurofins TestAmerica, Spokane

QC Sample Results

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014001

Job ID: 590-10868-2

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

Lab Sample ID: 590-10868-8 MSD
Matrix: Solid
Analysis Batch: 22094

Client Sample ID: B-2(6-12)
Prep Type: Total/NA
Prep Batch: 22095

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	RPD
	Result	Qualifier	Added	Result	Qualifier				Limits		
Benzo[a]anthracene	ND		301	274		ug/Kg	☼	91	61 - 125	0	16
Chrysene	ND		301	278		ug/Kg	☼	92	57 - 127	1	15
Benzo[b]fluoranthene	ND		301	274		ug/Kg	☼	91	59 - 127	0	16
Benzo[k]fluoranthene	ND		301	279		ug/Kg	☼	93	63 - 127	1	16
Benzo[a]pyrene	ND		301	265		ug/Kg	☼	88	60 - 120	1	20
Indeno[1,2,3-cd]pyrene	ND		301	273		ug/Kg	☼	91	55 - 128	0	18
Dibenz(a,h)anthracene	ND		301	278		ug/Kg	☼	92	60 - 128	0	18
Benzo[g,h,i]perylene	ND		301	268		ug/Kg	☼	89	58 - 129	0	17
Surrogate	MSD	MSD									
	%Recovery	Qualifier	Limits								
Nitrobenzene-d5	85		31 - 120								
2-Fluorobiphenyl (Surr)	87		46 - 120								
p-Terphenyl-d14	105		61 - 136								

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 590-22110/2-A
Matrix: Solid
Analysis Batch: 22160

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 22110

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Lead	ND		3.0		mg/Kg		05/09/19 11:33	05/13/19 11:41	1

Lab Sample ID: LCS 590-22110/1-A
Matrix: Solid
Analysis Batch: 22160

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 22110

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec.
		Result	Qualifier				Limits
Lead	50.0	55.2		mg/Kg		110	80 - 120

Lab Chronicle

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014001

Job ID: 590-10868-2

Client Sample ID: B-1(6-12)

Date Collected: 04/25/19 10:56

Date Received: 04/26/19 10:30

Lab Sample ID: 590-10868-4

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			22073	05/07/19 15:17	SJK	TAL SPK

Client Sample ID: B-1(6-12)

Date Collected: 04/25/19 10:56

Date Received: 04/26/19 10:30

Lab Sample ID: 590-10868-4

Matrix: Solid

Percent Solids: 88.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			1.23 g	50 mL	22110	05/09/19 11:33	JSP	TAL SPK
Total/NA	Analysis	6010C		1			22160	05/13/19 12:27	JSP	TAL SPK

Client Sample ID: B-4(6-12)

Date Collected: 04/25/19 11:01

Date Received: 04/26/19 10:30

Lab Sample ID: 590-10868-6

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			22073	05/07/19 15:17	SJK	TAL SPK

Client Sample ID: B-4(6-12)

Date Collected: 04/25/19 11:01

Date Received: 04/26/19 10:30

Lab Sample ID: 590-10868-6

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	3050B			1.15 g	50 mL	22110	05/09/19 11:33	JSP	TAL SPK
Total/NA	Analysis	6010C		1			22160	05/13/19 12:31	JSP	TAL SPK

Client Sample ID: B-2(6-12)

Date Collected: 04/25/19 11:11

Date Received: 04/26/19 10:30

Lab Sample ID: 590-10868-8

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			22073	05/07/19 15:17	SJK	TAL SPK

Client Sample ID: B-2(6-12)

Date Collected: 04/25/19 11:11

Date Received: 04/26/19 10:30

Lab Sample ID: 590-10868-8

Matrix: Solid

Percent Solids: 88.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			15.48 g	2 mL	22095	05/08/19 12:21	NMI	TAL SPK
Total/NA	Analysis	8270D SIM		1			22094	05/08/19 17:14	NMI	TAL SPK

Client Sample ID: B-6(6-12)

Date Collected: 04/25/19 11:41

Date Received: 04/26/19 10:30

Lab Sample ID: 590-10868-12

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			22073	05/07/19 15:17	SJK	TAL SPK

Eurofins TestAmerica, Spokane

Lab Chronicle

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014001

Job ID: 590-10868-2

Client Sample ID: B-6(6-12)

Date Collected: 04/25/19 11:41

Date Received: 04/26/19 10:30

Lab Sample ID: 590-10868-12

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	3550C			15.67 g	2 mL	22095	05/08/19 12:21	NMI	TAL SPK
Total/NA	Analysis	8270D SIM		1			22094	05/08/19 17:40	NMI	TAL SPK
Total/NA	Prep	3050B			1.13 g	50 mL	22110	05/09/19 11:33	JSP	TAL SPK
Total/NA	Analysis	6010C		1			22160	05/13/19 12:34	JSP	TAL SPK

Client Sample ID: B-7(6-12)

Date Collected: 04/25/19 12:01

Date Received: 04/26/19 10:30

Lab Sample ID: 590-10868-14

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			22073	05/07/19 15:17	SJK	TAL SPK

Client Sample ID: B-7(6-12)

Date Collected: 04/25/19 12:01

Date Received: 04/26/19 10:30

Lab Sample ID: 590-10868-14

Matrix: Solid

Percent Solids: 88.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			1.49 g	50 mL	22110	05/09/19 11:33	JSP	TAL SPK
Total/NA	Analysis	6010C		1			22160	05/13/19 12:38	JSP	TAL SPK

Client Sample ID: B-8(6-12)

Date Collected: 04/25/19 12:11

Date Received: 04/26/19 10:30

Lab Sample ID: 590-10868-16

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			22073	05/07/19 15:17	SJK	TAL SPK

Client Sample ID: B-8(6-12)

Date Collected: 04/25/19 12:11

Date Received: 04/26/19 10:30

Lab Sample ID: 590-10868-16

Matrix: Solid

Percent Solids: 83.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			15.03 g	2 mL	22095	05/08/19 12:21	NMI	TAL SPK
Total/NA	Analysis	8270D SIM		1			22094	05/08/19 18:06	NMI	TAL SPK
Total/NA	Prep	3050B			1.44 g	50 mL	22110	05/09/19 11:33	JSP	TAL SPK
Total/NA	Analysis	6010C		1			22160	05/13/19 12:42	JSP	TAL SPK

Client Sample ID: B-14(36)

Date Collected: 04/25/19 12:22

Date Received: 04/26/19 10:30

Lab Sample ID: 590-10868-19

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			22073	05/07/19 15:17	SJK	TAL SPK

Lab Chronicle

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014001

Job ID: 590-10868-2

Client Sample ID: B-14(36)

Date Collected: 04/25/19 12:22

Date Received: 04/26/19 10:30

Lab Sample ID: 590-10868-19

Matrix: Solid

Percent Solids: 90.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			15.62 g	2 mL	22095	05/08/19 12:21	NMI	TAL SPK
Total/NA	Analysis	8270D SIM		1			22094	05/08/19 18:33	NMI	TAL SPK
Total/NA	Prep	3050B			1.46 g	50 mL	22110	05/09/19 11:33	JSP	TAL SPK
Total/NA	Analysis	6010C		1			22160	05/13/19 12:46	JSP	TAL SPK

Client Sample ID: B-16(14-30)

Date Collected: 04/25/19 12:31

Date Received: 04/26/19 10:30

Lab Sample ID: 590-10868-21

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			22073	05/07/19 15:17	SJK	TAL SPK

Client Sample ID: B-16(14-30)

Date Collected: 04/25/19 12:31

Date Received: 04/26/19 10:30

Lab Sample ID: 590-10868-21

Matrix: Solid

Percent Solids: 83.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			15.31 g	2 mL	22095	05/08/19 12:21	NMI	TAL SPK
Total/NA	Analysis	8270D SIM		1			22094	05/08/19 18:59	NMI	TAL SPK

Client Sample ID: B-17(6-12)

Date Collected: 04/25/19 12:41

Date Received: 04/26/19 10:30

Lab Sample ID: 590-10868-23

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			22073	05/07/19 15:17	SJK	TAL SPK

Client Sample ID: B-17(6-12)

Date Collected: 04/25/19 12:41

Date Received: 04/26/19 10:30

Lab Sample ID: 590-10868-23

Matrix: Solid

Percent Solids: 91.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			15.96 g	2 mL	22095	05/08/19 12:21	NMI	TAL SPK
Total/NA	Analysis	8270D SIM		1			22094	05/08/19 19:26	NMI	TAL SPK

Client Sample ID: B-18(12-18)

Date Collected: 04/25/19 13:27

Date Received: 04/26/19 10:30

Lab Sample ID: 590-10868-26

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			22073	05/07/19 15:17	SJK	TAL SPK

Lab Chronicle

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014001

Job ID: 590-10868-2

Client Sample ID: B-18(12-18)

Lab Sample ID: 590-10868-26

Date Collected: 04/25/19 13:27

Matrix: Solid

Date Received: 04/26/19 10:30

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	3550C			15.47 g	2 mL	22095	05/08/19 12:21	NMI	TAL SPK
Total/NA	Analysis	8270D SIM		1			22094	05/08/19 19:52	NMI	TAL SPK

Client Sample ID: B-15(6-12)

Lab Sample ID: 590-10868-30

Date Collected: 04/25/19 13:51

Matrix: Solid

Date Received: 04/26/19 10:30

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			22073	05/07/19 15:17	SJK	TAL SPK

Client Sample ID: B-15(6-12)

Lab Sample ID: 590-10868-30

Date Collected: 04/25/19 13:51

Matrix: Solid

Date Received: 04/26/19 10:30

Percent Solids: 89.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			15.18 g	2 mL	22095	05/08/19 12:21	NMI	TAL SPK
Total/NA	Analysis	8270D SIM		1			22094	05/08/19 20:18	NMI	TAL SPK

Client Sample ID: TP-19(36-48)

Lab Sample ID: 590-10868-38

Date Collected: 04/25/19 15:05

Matrix: Solid

Date Received: 04/26/19 10:30

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			22073	05/07/19 15:17	SJK	TAL SPK

Client Sample ID: TP-19(36-48)

Lab Sample ID: 590-10868-38

Date Collected: 04/25/19 15:05

Matrix: Solid

Date Received: 04/26/19 10:30

Percent Solids: 91.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			15.29 g	2 mL	22095	05/08/19 12:21	NMI	TAL SPK
Total/NA	Analysis	8270D SIM		1			22094	05/08/19 20:45	NMI	TAL SPK

Laboratory References:

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

Accreditation/Certification Summary

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014001

Job ID: 590-10868-2

Laboratory: Eurofins 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	01-06-20

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

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



Method Summary

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014001

Job ID: 590-10868-2

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

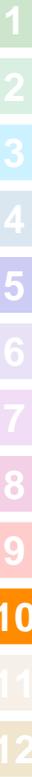
Protocol References:

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



Sample Custody Record

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Hart Crowser, Inc.
3131 Elliott Avenue, Suite 600
Seattle, Washington 98121
Office: 206.324.9530 • Fax 206.328.5581

JOB <u>150014001</u> LAB NUMBER _____						REQUESTED ANALYSIS										NO. OF CONTAINERS	OBSERVATIONS/COMMENTS/ COMPOSITING INSTRUCTIONS		
PROJECT NAME <u>CVSD</u>																			
HART CROWSER CONTACT <u>JOHN HANEY</u>																590-10868 Chain of Custody			
SAMPLED BY: <u>W. McDONALD</u>																			
LAB NO.	SAMPLE ID	DESCRIPTION	DATE	TIME	MATRIX														
	B-3(0-6)		4/25/19	1050	SOIL	X	X												
	B-3(6-12)			1051															Hold
	B-1(0-6)			1055		X	X												Hold
	B-1(6-12)			1056															Hold
	B-4(0-6)			1100		X	X												Hold WDM
	B-4(6-12)			1101															Hold
	B-2(0-6)			1110		X													Hold
	B-2(6-12)			1111															Hold
	B-5(0-6)			1135		X	X												Hold
	B-5(6-12)			1136															Hold
	B-6(0-6)			1140		X	X												Hold
	B-6(6-12)			1141															Hold
RELINQUISHED BY		DATE	RECEIVED BY		DATE	SPECIAL SHIPMENT HANDLING OR STORAGE REQUIREMENTS:										TOTAL NUMBER OF CONTAINERS			
[Signature]		4/26/19	[Signature]		4/26/19	HOLD SAMPLES WITHOUT ANALYTE SELECTED 3.2°C (10004) COOLER NO.: _____ STORAGE LOCATION: _____ See Lab Work Order No. _____ for Other Contract Requirements										SAMPLE RECEIPT INFORMATION			
WARD McDONALD		TIME	Matt Sudo		TIME											CUSTODY SEALS:			
HC		1029	TEL 510		1030											<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			
COMPANY			COMPANY													TURNAROUND TIME:			
RELINQUISHED BY		DATE	RECEIVED BY		DATE														
SIGNATURE		TIME	SIGNATURE		TIME											<input type="checkbox"/> 24 HOURS <input type="checkbox"/> 1 WEEK <input type="checkbox"/> 48 HOURS <input checked="" type="checkbox"/> STANDARD <input type="checkbox"/> 72 HOURS OTHER _____			
PRINT NAME			PRINT NAME																
COMPANY			COMPANY																

Sample Custody Record

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PAGE 2 OF 4

Hart Crowser, Inc.
3131 Elliott Avenue, Suite 600
Seattle, Washington 98121
Office: 206.324.9530 • Fax 206.328.5581

JOB <u>150014001</u> LAB NUMBER _____						REQUESTED ANALYSIS										NO. OF CONTAINERS	OBSERVATIONS/COMMENTS/ COMPOSITING INSTRUCTIONS			
PROJECT NAME <u>CVSD</u>																				
HART CROWSER CONTACT <u>JOHN HANEY</u>																				
SAMPLED BY: <u>W. McDONALD</u>																				
LAB NO.	SAMPLE ID	DESCRIPTION	DATE	TIME	MATRIX	PAHS	LEAD													
	B-7(0-6)		4/15/19	1200	SOIL	X	X													
	B-7(6-12)			1201																Hold
	B-8(0-6)			1210		X	X													Hold
	B-8(6-12)			1211																Hold
	B-14(0-6)			1220		X	X													Hold
	B-14(6-12)			1221																Hold
	B-14(36)			1222		X	X													Hold
	B-16(0-14)			1230		X														Hold work
	B-16(14-30)			1231																Hold
	B-17(0-6)			1240		X														Hold
	B-17(6-12)			1241																Hold
	B-18(0-6)			1325		X														

RELINQUISHED BY <i>[Signature]</i> WALTER McDONALD HC COMPANY	DATE 4/26/19 TIME 1029	RECEIVED BY <i>[Signature]</i> Matt Suda JA-SPO COMPANY	DATE 4-26-19 TIME 1030	SPECIAL SHIPMENT HANDLING OR STORAGE REQUIREMENTS: 3.2°C (100.0)	TOTAL NUMBER OF CONTAINERS
RELINQUISHED BY	DATE	RECEIVED BY	DATE	COOLER NO.:	STORAGE LOCATION:
SIGNATURE	TIME	SIGNATURE	TIME	See Lab Work Order No. _____	TURNAROUND TIME:
PRINT NAME		PRINT NAME		for Other Contract Requirements	<input type="checkbox"/> 24 HOURS <input type="checkbox"/> 1 WEEK
COMPANY		COMPANY			<input type="checkbox"/> 48 HOURS <input checked="" type="checkbox"/> STANDARD
					<input type="checkbox"/> 72 HOURS OTHER _____

Sample Custody Record

Samples Shipped to: TEST AMERICA



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Hart Crowser, Inc.
3131 Elliott Avenue, Suite 600
Seattle, Washington 98121
Office: 206.324.9530 • Fax 206.328.5581

JOB <u>150014001</u> LAB NUMBER _____						REQUESTED ANALYSIS										NO. OF CONTAINERS	OBSERVATIONS/COMMENTS/ COMPOSITING INSTRUCTIONS						
PROJECT NAME <u>CVSD</u>																							
HART CROWSER CONTACT <u>JOHN HANEY</u>																							
SAMPLED BY: <u>W. McDONALD</u>																							
LAB NO.	SAMPLE ID	DESCRIPTION	DATE	TIME	MATRIX																		
	<u>B-18(6-12)</u>		<u>4/25/19</u>	<u>1326</u>	<u>SOIL</u>																1	<u>Hold</u>	
	<u>B-18(12-18)</u>			<u>1327</u>																		1	<u>Hold</u>
	<u>B-19(0-6)</u>			<u>1340</u>		<u>X</u>	<u>X</u>															1	
	<u>B-19(6-12)</u>			<u>1341</u>																		1	<u>Hold</u>
	<u>B-19(0-6)</u>			<u>1350</u>		<u>X</u>	<u>X</u>															1	
	<u>B-15(6-12)</u>			<u>1351</u>																		1	<u>Hold</u>
	<u>B-11(36)</u>			<u>1405</u>		<u>X</u>	<u>X</u>															1	
	<u>B-9(36)</u>			<u>146</u>		<u>X</u>	<u>X</u>															1	
	<u>B-9(12)</u>			<u>1415</u>																		1	<u>Hold</u>
	<u>B-10(36)</u>			<u>1420</u>		<u>X</u>	<u>X</u>															1	
	<u>B-12(96)</u>			<u>1425</u>		<u>X</u>	<u>X</u>															1	
	<u>B-13(42)</u>			<u>1445</u>		<u>X</u>	<u>X</u>															1	

RELINQUISHED BY <u>[Signature]</u>	DATE <u>4/26/19</u>	RECEIVED BY <u>[Signature]</u>	DATE <u>4/26/19</u>	SPECIAL SHIPMENT HANDLING OR STORAGE REQUIREMENTS: <u>3°C (100%)</u>	TOTAL NUMBER OF CONTAINERS
SIGNATURE <u>WARD McANARD</u>	TIME <u>1029</u>	SIGNATURE <u>Matt Suda</u>	TIME <u>1030</u>		
PRINT NAME <u>He</u>		PRINT NAME			
COMPANY		COMPANY			
RELINQUISHED BY	DATE	RECEIVED BY	DATE	COOLER NO.: _____ STORAGE LOCATION: _____	TURNAROUND TIME: <input type="checkbox"/> 24 HOURS <input type="checkbox"/> 1 WEEK <input type="checkbox"/> 48 HOURS <input checked="" type="checkbox"/> STANDARD <input type="checkbox"/> 72 HOURS OTHER _____
SIGNATURE	TIME	SIGNATURE	TIME		
PRINT NAME		PRINT NAME			
COMPANY		COMPANY			

Sample Custody Record

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HARTCROWSER

Hart Crowser, Inc.
3131 Elliott Avenue, Suite 600
Seattle, Washington 98121
Office: 206.324.9530 • Fax 206.328.5581

JOB <u>150614001</u> LAB NUMBER _____ PROJECT NAME <u>CVSD</u> HART CROWSER CONTACT <u>JOHN HANEY</u> SAMPLED BY: <u>W. McDONALD</u>						REQUESTED ANALYSIS <div style="display: flex; justify-content: space-between;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">PANS</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">LEAD</div> </div>										NO. OF CONTAINERS	OBSERVATIONS/COMMENTS/ COMPOSITING INSTRUCTIONS									
LAB NO.	SAMPLE ID	DESCRIPTION	DATE	TIME	MATRIX																					
	<u>B-13(36)</u>		<u>4/25/19</u>	<u>1443</u> <u>1505</u>	<u>SOIL</u>																					
	<u>TP-19(36-48)</u>			<u>1505</u>																						
	<u>TP-19(36)</u>			<u>1510</u>																						
	<u>TP-41(24-36)</u>			<u>1515</u>																						
	<u>TP-53(24-36)</u>			<u>1520</u>																						
	<u>TP-52(24-36)</u>			<u>1530</u>																						
	<u>TP-54(24-36)</u>			<u>1540</u>																						
	<u>TP-55(24-36)</u>			<u>1545</u>																						
	<u>TP-56(24-36)</u>			<u>1600</u>																						
	<u>TP-39(36)</u>			<u>1510</u>																						
RELINQUISHED BY			DATE	RECEIVED BY			DATE	SPECIAL SHIPMENT HANDLING OR STORAGE REQUIREMENTS:										TOTAL NUMBER OF CONTAINERS								
SIGNATURE <u>W. McDonald</u>			<u>4/26/19</u>	SIGNATURE <u>Matt Suda</u>			<u>4-26-19</u>	<u>3-2°C (100%)</u> COOLER NO.: _____ STORAGE LOCATION: _____ See Lab Work Order No. _____ for Other Contract Requirements										SAMPLE RECEIPT INFORMATION								
PRINT NAME <u>HE</u>			TIME	PRINT NAME <u>TA-580</u>			TIME											CUSTODY SEALS:								
COMPANY <u>1029</u>				COMPANY														<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								
RELINQUISHED BY			DATE	RECEIVED BY			DATE											TURNAROUND TIME:								
SIGNATURE			TIME	SIGNATURE			TIME	<input type="checkbox"/> 24 HOURS <input type="checkbox"/> 1 WEEK <input type="checkbox"/> 48 HOURS <input checked="" type="checkbox"/> STANDARD <input type="checkbox"/> 72 HOURS OTHER _____																		
PRINT NAME				PRINT NAME																						
COMPANY				COMPANY																						

Login Sample Receipt Checklist

Client: Hart Crowser, Inc.

Job Number: 590-10868-2

Login Number: 10868

List Number: 1

Creator: O'Toole, Maria C

List Source: Eurofins TestAmerica, Spokane

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	
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.

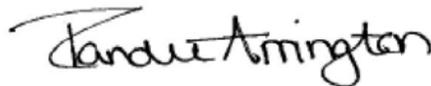
ANALYTICAL REPORT

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

Laboratory Job ID: 590-11043-1
Client Project/Site: CVSD/15014001

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

Attn: John Haney



Authorized for release by:
6/4/2019 3:48:39 PM

Randee Arrington, Project Manager II
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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.



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Case Narrative

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014001

Job ID: 590-11043-1

Job ID: 590-11043-1

Laboratory: Eurofins TestAmerica, Spokane

Narrative

Receipt

The samples were received on 5/20/2019 3:07 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.1° C.

Receipt Exceptions

The following samples were activated for 8270D SIM PAHs by the client on 05/31/2019: TP-69 (12) (590-11043-2), TP-70 (12) (590-11043-4), TP-71 (12) (590-11043-6) and TP-72 (12) (590-11043-8).

GC/MS Semi VOA

Method 8270D SIM: Surrogate recovery for the following sample was outside control limits: TP-69 (6) (590-11043-1). Evidence of matrix interference due to non-target analytes 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 method blank for preparation batch 590-22371 and analytical batch 590-22439 contained Lead above the reporting limit (RL). Associated samples were not re-extracted and/or re-analyzed because results were greater than 10X the value found in the method blank.

No additional analytical or quality issues were noted, other than those described above or 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: CVSD/15014001

Job ID: 590-11043-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
590-11043-1	TP-69 (6)	Solid	05/20/19 14:42	05/20/19 15:40	
590-11043-2	TP-69 (12)	Solid	05/20/19 14:50	05/20/19 15:40	
590-11043-3	TP-70 (6)	Solid	05/20/19 14:22	05/20/19 15:40	
590-11043-4	TP-70 (12)	Solid	05/20/19 14:30	05/20/19 15:40	
590-11043-5	TP-71 (6)	Solid	05/20/19 13:56	05/20/19 15:40	
590-11043-6	TP-71 (12)	Solid	05/20/19 14:08	05/20/19 15:40	
590-11043-7	TP-72 (6)	Solid	05/20/19 13:32	05/20/19 15:40	
590-11043-8	TP-72 (12)	Solid	05/20/19 13:44	05/20/19 15:40	

Definitions/Glossary

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014001

Job ID: 590-11043-1

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
X	Surrogate is outside control limits

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.

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: CVSD/15014001

Job ID: 590-11043-1

Client Sample ID: TP-69 (6)

Lab Sample ID: 590-11043-1

Date Collected: 05/20/19 14:42

Matrix: Solid

Date Received: 05/20/19 15:40

Percent Solids: 85.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	800		120		ug/Kg	☼	05/23/19 15:53	05/23/19 19:48	10
2-Methylnaphthalene	770		120		ug/Kg	☼	05/23/19 15:53	05/23/19 19:48	10
1-Methylnaphthalene	440		120		ug/Kg	☼	05/23/19 15:53	05/23/19 19:48	10
Acenaphthylene	ND		120		ug/Kg	☼	05/23/19 15:53	05/23/19 19:48	10
Acenaphthene	9400		120		ug/Kg	☼	05/23/19 15:53	05/23/19 19:48	10
Fluorene	2200		120		ug/Kg	☼	05/23/19 15:53	05/23/19 19:48	10
Phenanthrene	39000		1200		ug/Kg	☼	05/23/19 15:53	05/24/19 10:55	100
Anthracene	8000		120		ug/Kg	☼	05/23/19 15:53	05/23/19 19:48	10
Fluoranthene	99000		1200		ug/Kg	☼	05/23/19 15:53	05/24/19 10:55	100
Pyrene	110000		1200		ug/Kg	☼	05/23/19 15:53	05/24/19 10:55	100
Benzo[a]anthracene	70000		1200		ug/Kg	☼	05/23/19 15:53	05/24/19 10:55	100
Chrysene	88000		1200		ug/Kg	☼	05/23/19 15:53	05/24/19 10:55	100
Benzo[b]fluoranthene	99000		1200		ug/Kg	☼	05/23/19 15:53	05/24/19 10:55	100
Benzo[k]fluoranthene	45000		1200		ug/Kg	☼	05/23/19 15:53	05/24/19 10:55	100
Benzo[a]pyrene	96000		1200		ug/Kg	☼	05/23/19 15:53	05/24/19 10:55	100
Indeno[1,2,3-cd]pyrene	52000		1200		ug/Kg	☼	05/23/19 15:53	05/24/19 10:55	100
Dibenz(a,h)anthracene	14000		120		ug/Kg	☼	05/23/19 15:53	05/23/19 19:48	10
Benzo[g,h,i]perylene	58000		1200		ug/Kg	☼	05/23/19 15:53	05/24/19 10:55	100

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	97		31 - 120	05/23/19 15:53	05/23/19 19:48	10
Nitrobenzene-d5	120		31 - 120	05/23/19 15:53	05/24/19 10:55	100
2-Fluorobiphenyl (Surr)	102		46 - 120	05/23/19 15:53	05/23/19 19:48	10
2-Fluorobiphenyl (Surr)	123	X	46 - 120	05/23/19 15:53	05/24/19 10:55	100
p-Terphenyl-d14	123		61 - 136	05/23/19 15:53	05/23/19 19:48	10
p-Terphenyl-d14	141	X	61 - 136	05/23/19 15:53	05/24/19 10:55	100

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	50000	B	26		mg/Kg	☼	05/29/19 13:51	06/04/19 10:25	10

Client Sample ID: TP-69 (12)

Lab Sample ID: 590-11043-2

Date Collected: 05/20/19 14:50

Matrix: Solid

Date Received: 05/20/19 15:40

Percent Solids: 80.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	25		12		ug/Kg	☼	06/03/19 15:26	06/03/19 22:18	1
2-Methylnaphthalene	21		12		ug/Kg	☼	06/03/19 15:26	06/03/19 22:18	1
1-Methylnaphthalene	16		12		ug/Kg	☼	06/03/19 15:26	06/03/19 22:18	1
Acenaphthylene	ND		12		ug/Kg	☼	06/03/19 15:26	06/03/19 22:18	1
Acenaphthene	170		12		ug/Kg	☼	06/03/19 15:26	06/03/19 22:18	1
Fluorene	49		12		ug/Kg	☼	06/03/19 15:26	06/03/19 22:18	1
Phenanthrene	810		12		ug/Kg	☼	06/03/19 15:26	06/03/19 22:18	1
Anthracene	200		12		ug/Kg	☼	06/03/19 15:26	06/03/19 22:18	1
Fluoranthene	1800		12		ug/Kg	☼	06/03/19 15:26	06/03/19 22:18	1
Pyrene	2200		12		ug/Kg	☼	06/03/19 15:26	06/03/19 22:18	1
Benzo[a]anthracene	1400		12		ug/Kg	☼	06/03/19 15:26	06/03/19 22:18	1
Chrysene	1800		12		ug/Kg	☼	06/03/19 15:26	06/03/19 22:18	1
Benzo[b]fluoranthene	2300		12		ug/Kg	☼	06/03/19 15:26	06/03/19 22:18	1

Euofins TestAmerica, Spokane

Client Sample Results

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014001

Job ID: 590-11043-1

Client Sample ID: TP-69 (12)

Lab Sample ID: 590-11043-2

Date Collected: 05/20/19 14:50

Matrix: Solid

Date Received: 05/20/19 15:40

Percent Solids: 80.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	1100		12		ug/Kg	☼	06/03/19 15:26	06/03/19 22:18	1
Benzo[a]pyrene	2000		12		ug/Kg	☼	06/03/19 15:26	06/03/19 22:18	1
Indeno[1,2,3-cd]pyrene	670		12		ug/Kg	☼	06/03/19 15:26	06/03/19 22:18	1
Dibenz(a,h)anthracene	250		12		ug/Kg	☼	06/03/19 15:26	06/03/19 22:18	1
Benzo[g,h,i]perylene	650		12		ug/Kg	☼	06/03/19 15:26	06/03/19 22:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	100		31 - 120				06/03/19 15:26	06/03/19 22:18	1
2-Fluorobiphenyl (Surr)	107		46 - 120				06/03/19 15:26	06/03/19 22:18	1
p-Terphenyl-d14	128		61 - 136				06/03/19 15:26	06/03/19 22:18	1

Client Sample ID: TP-70 (6)

Lab Sample ID: 590-11043-3

Date Collected: 05/20/19 14:22

Matrix: Solid

Date Received: 05/20/19 15:40

Percent Solids: 81.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		12		ug/Kg	☼	05/23/19 15:53	05/23/19 20:14	1
2-Methylnaphthalene	ND		12		ug/Kg	☼	05/23/19 15:53	05/23/19 20:14	1
1-Methylnaphthalene	ND		12		ug/Kg	☼	05/23/19 15:53	05/23/19 20:14	1
Acenaphthylene	ND		12		ug/Kg	☼	05/23/19 15:53	05/23/19 20:14	1
Acenaphthene	15		12		ug/Kg	☼	05/23/19 15:53	05/23/19 20:14	1
Fluorene	ND		12		ug/Kg	☼	05/23/19 15:53	05/23/19 20:14	1
Phenanthrene	65		12		ug/Kg	☼	05/23/19 15:53	05/23/19 20:14	1
Anthracene	16		12		ug/Kg	☼	05/23/19 15:53	05/23/19 20:14	1
Fluoranthene	140		12		ug/Kg	☼	05/23/19 15:53	05/23/19 20:14	1
Pyrene	170		12		ug/Kg	☼	05/23/19 15:53	05/23/19 20:14	1
Benzo[a]anthracene	130		12		ug/Kg	☼	05/23/19 15:53	05/23/19 20:14	1
Chrysene	180		12		ug/Kg	☼	05/23/19 15:53	05/23/19 20:14	1
Benzo[b]fluoranthene	210		12		ug/Kg	☼	05/23/19 15:53	05/23/19 20:14	1
Benzo[k]fluoranthene	92		12		ug/Kg	☼	05/23/19 15:53	05/23/19 20:14	1
Benzo[a]pyrene	220		12		ug/Kg	☼	05/23/19 15:53	05/23/19 20:14	1
Indeno[1,2,3-cd]pyrene	130		12		ug/Kg	☼	05/23/19 15:53	05/23/19 20:14	1
Dibenz(a,h)anthracene	45		12		ug/Kg	☼	05/23/19 15:53	05/23/19 20:14	1
Benzo[g,h,i]perylene	140		12		ug/Kg	☼	05/23/19 15:53	05/23/19 20:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	86		31 - 120				05/23/19 15:53	05/23/19 20:14	1
2-Fluorobiphenyl (Surr)	90		46 - 120				05/23/19 15:53	05/23/19 20:14	1
p-Terphenyl-d14	111		61 - 136				05/23/19 15:53	05/23/19 20:14	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	250	B	2.8		mg/Kg	☼	05/29/19 13:51	06/04/19 10:38	1

Client Sample Results

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014001

Job ID: 590-11043-1

Client Sample ID: TP-70 (12)

Lab Sample ID: 590-11043-4

Date Collected: 05/20/19 14:30

Matrix: Solid

Date Received: 05/20/19 15:40

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	ND		12		ug/Kg	☼	06/03/19 15:26	06/03/19 22:44	1
2-Methylnaphthalene	ND		12		ug/Kg	☼	06/03/19 15:26	06/03/19 22:44	1
1-Methylnaphthalene	ND		12		ug/Kg	☼	06/03/19 15:26	06/03/19 22:44	1
Acenaphthylene	ND		12		ug/Kg	☼	06/03/19 15:26	06/03/19 22:44	1
Acenaphthene	ND		12		ug/Kg	☼	06/03/19 15:26	06/03/19 22:44	1
Fluorene	ND		12		ug/Kg	☼	06/03/19 15:26	06/03/19 22:44	1
Phenanthrene	14		12		ug/Kg	☼	06/03/19 15:26	06/03/19 22:44	1
Anthracene	ND		12		ug/Kg	☼	06/03/19 15:26	06/03/19 22:44	1
Fluoranthene	38		12		ug/Kg	☼	06/03/19 15:26	06/03/19 22:44	1
Pyrene	46		12		ug/Kg	☼	06/03/19 15:26	06/03/19 22:44	1
Benzo[a]anthracene	30		12		ug/Kg	☼	06/03/19 15:26	06/03/19 22:44	1
Chrysene	42		12		ug/Kg	☼	06/03/19 15:26	06/03/19 22:44	1
Benzo[b]fluoranthene	58		12		ug/Kg	☼	06/03/19 15:26	06/03/19 22:44	1
Benzo[k]fluoranthene	27		12		ug/Kg	☼	06/03/19 15:26	06/03/19 22:44	1
Benzo[a]pyrene	48		12		ug/Kg	☼	06/03/19 15:26	06/03/19 22:44	1
Indeno[1,2,3-cd]pyrene	17		12		ug/Kg	☼	06/03/19 15:26	06/03/19 22:44	1
Dibenz(a,h)anthracene	ND		12		ug/Kg	☼	06/03/19 15:26	06/03/19 22:44	1
Benzo[g,h,i]perylene	18		12		ug/Kg	☼	06/03/19 15:26	06/03/19 22:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	91		31 - 120	06/03/19 15:26	06/03/19 22:44	1
2-Fluorobiphenyl (Surr)	91		46 - 120	06/03/19 15:26	06/03/19 22:44	1
p-Terphenyl-d14	117		61 - 136	06/03/19 15:26	06/03/19 22:44	1

Client Sample ID: TP-71 (6)

Lab Sample ID: 590-11043-5

Date Collected: 05/20/19 13:56

Matrix: Solid

Date Received: 05/20/19 15:40

Percent Solids: 84.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	210		120		ug/Kg	☼	05/23/19 15:53	05/23/19 20:40	10
2-Methylnaphthalene	130		120		ug/Kg	☼	05/23/19 15:53	05/23/19 20:40	10
1-Methylnaphthalene	ND		120		ug/Kg	☼	05/23/19 15:53	05/23/19 20:40	10
Acenaphthylene	ND		120		ug/Kg	☼	05/23/19 15:53	05/23/19 20:40	10
Acenaphthene	770		120		ug/Kg	☼	05/23/19 15:53	05/23/19 20:40	10
Fluorene	230		120		ug/Kg	☼	05/23/19 15:53	05/23/19 20:40	10
Phenanthrene	3400		120		ug/Kg	☼	05/23/19 15:53	05/23/19 20:40	10
Anthracene	840		120		ug/Kg	☼	05/23/19 15:53	05/23/19 20:40	10
Fluoranthene	8400		120		ug/Kg	☼	05/23/19 15:53	05/23/19 20:40	10
Pyrene	9500		120		ug/Kg	☼	05/23/19 15:53	05/23/19 20:40	10
Benzo[a]anthracene	7300		120		ug/Kg	☼	05/23/19 15:53	05/23/19 20:40	10
Chrysene	9500		120		ug/Kg	☼	05/23/19 15:53	05/23/19 20:40	10
Benzo[b]fluoranthene	13000		120		ug/Kg	☼	05/23/19 15:53	05/23/19 20:40	10
Benzo[k]fluoranthene	5700		120		ug/Kg	☼	05/23/19 15:53	05/23/19 20:40	10
Benzo[a]pyrene	12000		120		ug/Kg	☼	05/23/19 15:53	05/23/19 20:40	10
Indeno[1,2,3-cd]pyrene	7100		120		ug/Kg	☼	05/23/19 15:53	05/23/19 20:40	10
Dibenz(a,h)anthracene	2400		120		ug/Kg	☼	05/23/19 15:53	05/23/19 20:40	10
Benzo[g,h,i]perylene	7900		120		ug/Kg	☼	05/23/19 15:53	05/23/19 20:40	10

Eurofins TestAmerica, Spokane

Client Sample Results

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014001

Job ID: 590-11043-1

Client Sample ID: TP-71 (6)

Date Collected: 05/20/19 13:56

Date Received: 05/20/19 15:40

Lab Sample ID: 590-11043-5

Matrix: Solid

Percent Solids: 84.4

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	93		31 - 120	05/23/19 15:53	05/23/19 20:40	10
2-Fluorobiphenyl (Surr)	94		46 - 120	05/23/19 15:53	05/23/19 20:40	10
p-Terphenyl-d14	111		61 - 136	05/23/19 15:53	05/23/19 20:40	10

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	1200	B	2.5		mg/Kg	☼	05/29/19 13:51	06/04/19 10:42	1

Client Sample ID: TP-71 (12)

Date Collected: 05/20/19 14:08

Date Received: 05/20/19 15:40

Lab Sample ID: 590-11043-6

Matrix: Solid

Percent Solids: 80.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		12		ug/Kg	☼	06/03/19 15:26	06/03/19 23:10	1
2-Methylnaphthalene	ND		12		ug/Kg	☼	06/03/19 15:26	06/03/19 23:10	1
1-Methylnaphthalene	ND		12		ug/Kg	☼	06/03/19 15:26	06/03/19 23:10	1
Acenaphthylene	ND		12		ug/Kg	☼	06/03/19 15:26	06/03/19 23:10	1
Acenaphthene	37		12		ug/Kg	☼	06/03/19 15:26	06/03/19 23:10	1
Fluorene	ND		12		ug/Kg	☼	06/03/19 15:26	06/03/19 23:10	1
Phenanthrene	190		12		ug/Kg	☼	06/03/19 15:26	06/03/19 23:10	1
Anthracene	46		12		ug/Kg	☼	06/03/19 15:26	06/03/19 23:10	1
Fluoranthene	520		12		ug/Kg	☼	06/03/19 15:26	06/03/19 23:10	1
Pyrene	610		12		ug/Kg	☼	06/03/19 15:26	06/03/19 23:10	1
Benzo[a]anthracene	410		12		ug/Kg	☼	06/03/19 15:26	06/03/19 23:10	1
Chrysene	530		12		ug/Kg	☼	06/03/19 15:26	06/03/19 23:10	1
Benzo[b]fluoranthene	760		12		ug/Kg	☼	06/03/19 15:26	06/03/19 23:10	1
Benzo[k]fluoranthene	290		12		ug/Kg	☼	06/03/19 15:26	06/03/19 23:10	1
Benzo[a]pyrene	630		12		ug/Kg	☼	06/03/19 15:26	06/03/19 23:10	1
Indeno[1,2,3-cd]pyrene	250		12		ug/Kg	☼	06/03/19 15:26	06/03/19 23:10	1
Dibenz(a,h)anthracene	86		12		ug/Kg	☼	06/03/19 15:26	06/03/19 23:10	1
Benzo[g,h,i]perylene	250		12		ug/Kg	☼	06/03/19 15:26	06/03/19 23:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	94		31 - 120	06/03/19 15:26	06/03/19 23:10	1
2-Fluorobiphenyl (Surr)	98		46 - 120	06/03/19 15:26	06/03/19 23:10	1
p-Terphenyl-d14	123		61 - 136	06/03/19 15:26	06/03/19 23:10	1

Client Sample ID: TP-72 (6)

Date Collected: 05/20/19 13:32

Date Received: 05/20/19 15:40

Lab Sample ID: 590-11043-7

Matrix: Solid

Percent Solids: 85.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	190		110		ug/Kg	☼	05/23/19 15:53	05/23/19 21:07	10
2-Methylnaphthalene	180		110		ug/Kg	☼	05/23/19 15:53	05/23/19 21:07	10
1-Methylnaphthalene	140		110		ug/Kg	☼	05/23/19 15:53	05/23/19 21:07	10
Acenaphthylene	ND		110		ug/Kg	☼	05/23/19 15:53	05/23/19 21:07	10
Acenaphthene	1400		110		ug/Kg	☼	05/23/19 15:53	05/23/19 21:07	10
Fluorene	490		110		ug/Kg	☼	05/23/19 15:53	05/23/19 21:07	10
Phenanthrene	9800		110		ug/Kg	☼	05/23/19 15:53	05/23/19 21:07	10

Eurofins TestAmerica, Spokane

Client Sample Results

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014001

Job ID: 590-11043-1

Client Sample ID: TP-72 (6)

Lab Sample ID: 590-11043-7

Date Collected: 05/20/19 13:32

Matrix: Solid

Date Received: 05/20/19 15:40

Percent Solids: 85.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	2100		110		ug/Kg	☼	05/23/19 15:53	05/23/19 21:07	10
Fluoranthene	23000		110		ug/Kg	☼	05/23/19 15:53	05/23/19 21:07	10
Pyrene	28000		110		ug/Kg	☼	05/23/19 15:53	05/23/19 21:07	10
Benzo[a]anthracene	17000		110		ug/Kg	☼	05/23/19 15:53	05/23/19 21:07	10
Chrysene	22000		110		ug/Kg	☼	05/23/19 15:53	05/23/19 21:07	10
Benzo[b]fluoranthene	27000		110		ug/Kg	☼	05/23/19 15:53	05/23/19 21:07	10
Benzo[k]fluoranthene	9900		110		ug/Kg	☼	05/23/19 15:53	05/23/19 21:07	10
Benzo[a]pyrene	23000		110		ug/Kg	☼	05/23/19 15:53	05/23/19 21:07	10
Indeno[1,2,3-cd]pyrene	12000		110		ug/Kg	☼	05/23/19 15:53	05/23/19 21:07	10
Dibenz(a,h)anthracene	4300		110		ug/Kg	☼	05/23/19 15:53	05/23/19 21:07	10
Benzo[g,h,i]perylene	14000		110		ug/Kg	☼	05/23/19 15:53	05/23/19 21:07	10
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	92		31 - 120				05/23/19 15:53	05/23/19 21:07	10
2-Fluorobiphenyl (Surr)	93		46 - 120				05/23/19 15:53	05/23/19 21:07	10
p-Terphenyl-d14	108		61 - 136				05/23/19 15:53	05/23/19 21:07	10

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	150	B	2.7		mg/Kg	☼	05/29/19 13:51	06/04/19 10:46	1

Client Sample ID: TP-72 (12)

Lab Sample ID: 590-11043-8

Date Collected: 05/20/19 13:44

Matrix: Solid

Date Received: 05/20/19 15:40

Percent Solids: 84.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		12		ug/Kg	☼	06/03/19 15:26	06/03/19 23:36	1
2-Methylnaphthalene	ND		12		ug/Kg	☼	06/03/19 15:26	06/03/19 23:36	1
1-Methylnaphthalene	ND		12		ug/Kg	☼	06/03/19 15:26	06/03/19 23:36	1
Acenaphthylene	ND		12		ug/Kg	☼	06/03/19 15:26	06/03/19 23:36	1
Acenaphthene	79		12		ug/Kg	☼	06/03/19 15:26	06/03/19 23:36	1
Fluorene	17		12		ug/Kg	☼	06/03/19 15:26	06/03/19 23:36	1
Phenanthrene	290		12		ug/Kg	☼	06/03/19 15:26	06/03/19 23:36	1
Anthracene	72		12		ug/Kg	☼	06/03/19 15:26	06/03/19 23:36	1
Fluoranthene	850		12		ug/Kg	☼	06/03/19 15:26	06/03/19 23:36	1
Pyrene	960		12		ug/Kg	☼	06/03/19 15:26	06/03/19 23:36	1
Benzo[a]anthracene	660		12		ug/Kg	☼	06/03/19 15:26	06/03/19 23:36	1
Chrysene	810		12		ug/Kg	☼	06/03/19 15:26	06/03/19 23:36	1
Benzo[b]fluoranthene	1200		12		ug/Kg	☼	06/03/19 15:26	06/03/19 23:36	1
Benzo[k]fluoranthene	460		12		ug/Kg	☼	06/03/19 15:26	06/03/19 23:36	1
Benzo[a]pyrene	930		12		ug/Kg	☼	06/03/19 15:26	06/03/19 23:36	1
Indeno[1,2,3-cd]pyrene	320		12		ug/Kg	☼	06/03/19 15:26	06/03/19 23:36	1
Dibenz(a,h)anthracene	120		12		ug/Kg	☼	06/03/19 15:26	06/03/19 23:36	1
Benzo[g,h,i]perylene	300		12		ug/Kg	☼	06/03/19 15:26	06/03/19 23:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	96		31 - 120				06/03/19 15:26	06/03/19 23:36	1
2-Fluorobiphenyl (Surr)	95		46 - 120				06/03/19 15:26	06/03/19 23:36	1
p-Terphenyl-d14	116		61 - 136				06/03/19 15:26	06/03/19 23:36	1

Eurofins TestAmerica, Spokane

QC Sample Results

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014001

Job ID: 590-11043-1

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

Lab Sample ID: MB 590-22295/1-A
Matrix: Solid
Analysis Batch: 22292

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 22295

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		10		ug/Kg		05/23/19 15:53	05/23/19 17:10	1
2-Methylnaphthalene	ND		10		ug/Kg		05/23/19 15:53	05/23/19 17:10	1
1-Methylnaphthalene	ND		10		ug/Kg		05/23/19 15:53	05/23/19 17:10	1
Acenaphthylene	ND		10		ug/Kg		05/23/19 15:53	05/23/19 17:10	1
Acenaphthene	ND		10		ug/Kg		05/23/19 15:53	05/23/19 17:10	1
Fluorene	ND		10		ug/Kg		05/23/19 15:53	05/23/19 17:10	1
Phenanthrene	ND		10		ug/Kg		05/23/19 15:53	05/23/19 17:10	1
Anthracene	ND		10		ug/Kg		05/23/19 15:53	05/23/19 17:10	1
Fluoranthene	ND		10		ug/Kg		05/23/19 15:53	05/23/19 17:10	1
Pyrene	ND		10		ug/Kg		05/23/19 15:53	05/23/19 17:10	1
Benzo[a]anthracene	ND		10		ug/Kg		05/23/19 15:53	05/23/19 17:10	1
Chrysene	ND		10		ug/Kg		05/23/19 15:53	05/23/19 17:10	1
Benzo[b]fluoranthene	ND		10		ug/Kg		05/23/19 15:53	05/23/19 17:10	1
Benzo[k]fluoranthene	ND		10		ug/Kg		05/23/19 15:53	05/23/19 17:10	1
Benzo[a]pyrene	ND		10		ug/Kg		05/23/19 15:53	05/23/19 17:10	1
Indeno[1,2,3-cd]pyrene	ND		10		ug/Kg		05/23/19 15:53	05/23/19 17:10	1
Dibenz(a,h)anthracene	ND		10		ug/Kg		05/23/19 15:53	05/23/19 17:10	1
Benzo[g,h,i]perylene	ND		10		ug/Kg		05/23/19 15:53	05/23/19 17:10	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	96		31 - 120	05/23/19 15:53	05/23/19 17:10	1
2-Fluorobiphenyl (Surr)	98		46 - 120	05/23/19 15:53	05/23/19 17:10	1
p-Terphenyl-d14	124		61 - 136	05/23/19 15:53	05/23/19 17:10	1

Lab Sample ID: LCS 590-22295/2-A
Matrix: Solid
Analysis Batch: 22292

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 22295

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Naphthalene	267	224		ug/Kg		84	33 - 120
2-Methylnaphthalene	267	235		ug/Kg		88	48 - 120
1-Methylnaphthalene	267	243		ug/Kg		91	55 - 120
Acenaphthylene	267	249		ug/Kg		93	47 - 120
Acenaphthene	267	252		ug/Kg		94	53 - 120
Fluorene	267	255		ug/Kg		96	54 - 120
Phenanthrene	267	260		ug/Kg		98	55 - 121
Anthracene	267	279		ug/Kg		105	60 - 129
Fluoranthene	267	295		ug/Kg		111	63 - 127
Pyrene	267	293		ug/Kg		110	62 - 125
Benzo[a]anthracene	267	292		ug/Kg		109	61 - 125
Chrysene	267	298		ug/Kg		112	57 - 127
Benzo[b]fluoranthene	267	281		ug/Kg		105	59 - 127
Benzo[k]fluoranthene	267	298		ug/Kg		112	63 - 127
Benzo[a]pyrene	267	278		ug/Kg		104	60 - 120
Indeno[1,2,3-cd]pyrene	267	291		ug/Kg		109	55 - 128
Dibenz(a,h)anthracene	267	298		ug/Kg		112	60 - 128
Benzo[g,h,i]perylene	267	286		ug/Kg		107	58 - 129

Eurofins TestAmerica, Spokane

QC Sample Results

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014001

Job ID: 590-11043-1

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

Lab Sample ID: LCS 590-22295/2-A
Matrix: Solid
Analysis Batch: 22292

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 22295

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
Nitrobenzene-d5	94		31 - 120
2-Fluorobiphenyl (Surr)	97		46 - 120
p-Terphenyl-d14	122		61 - 136

Lab Sample ID: MB 590-22421/1-A
Matrix: Solid
Analysis Batch: 22420

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 22421

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Naphthalene	ND		10		ug/Kg		06/03/19 15:26	06/03/19 17:02	1
2-Methylnaphthalene	ND		10		ug/Kg		06/03/19 15:26	06/03/19 17:02	1
1-Methylnaphthalene	ND		10		ug/Kg		06/03/19 15:26	06/03/19 17:02	1
Acenaphthylene	ND		10		ug/Kg		06/03/19 15:26	06/03/19 17:02	1
Acenaphthene	ND		10		ug/Kg		06/03/19 15:26	06/03/19 17:02	1
Fluorene	ND		10		ug/Kg		06/03/19 15:26	06/03/19 17:02	1
Phenanthrene	ND		10		ug/Kg		06/03/19 15:26	06/03/19 17:02	1
Anthracene	ND		10		ug/Kg		06/03/19 15:26	06/03/19 17:02	1
Fluoranthene	ND		10		ug/Kg		06/03/19 15:26	06/03/19 17:02	1
Pyrene	ND		10		ug/Kg		06/03/19 15:26	06/03/19 17:02	1
Benzo[a]anthracene	ND		10		ug/Kg		06/03/19 15:26	06/03/19 17:02	1
Chrysene	ND		10		ug/Kg		06/03/19 15:26	06/03/19 17:02	1
Benzo[b]fluoranthene	ND		10		ug/Kg		06/03/19 15:26	06/03/19 17:02	1
Benzo[k]fluoranthene	ND		10		ug/Kg		06/03/19 15:26	06/03/19 17:02	1
Benzo[a]pyrene	ND		10		ug/Kg		06/03/19 15:26	06/03/19 17:02	1
Indeno[1,2,3-cd]pyrene	ND		10		ug/Kg		06/03/19 15:26	06/03/19 17:02	1
Dibenz(a,h)anthracene	ND		10		ug/Kg		06/03/19 15:26	06/03/19 17:02	1
Benzo[g,h,i]perylene	ND		10		ug/Kg		06/03/19 15:26	06/03/19 17:02	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
Nitrobenzene-d5	101		31 - 120	06/03/19 15:26	06/03/19 17:02	1
2-Fluorobiphenyl (Surr)	100		46 - 120	06/03/19 15:26	06/03/19 17:02	1
p-Terphenyl-d14	122		61 - 136	06/03/19 15:26	06/03/19 17:02	1

Lab Sample ID: LCS 590-22421/2-A
Matrix: Solid
Analysis Batch: 22420

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 22421

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	Limits
		Result	Qualifier				
Naphthalene	267	266		ug/Kg		100	33 - 120
2-Methylnaphthalene	267	273		ug/Kg		102	48 - 120
1-Methylnaphthalene	267	269		ug/Kg		101	55 - 120
Acenaphthylene	267	298		ug/Kg		112	47 - 120
Acenaphthene	267	302		ug/Kg		113	53 - 120
Fluorene	267	294		ug/Kg		110	54 - 120
Phenanthrene	267	283		ug/Kg		106	55 - 121
Anthracene	267	295		ug/Kg		111	60 - 129
Fluoranthene	267	320		ug/Kg		120	63 - 127
Pyrene	267	299		ug/Kg		112	62 - 125

Eurofins TestAmerica, Spokane

QC Sample Results

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014001

Job ID: 590-11043-1

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

Lab Sample ID: LCS 590-22421/2-A
Matrix: Solid
Analysis Batch: 22420

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 22421

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	
Benzo[a]anthracene	267	311		ug/Kg		117	61 - 125	
Chrysene	267	324		ug/Kg		122	57 - 127	
Benzo[b]fluoranthene	267	312		ug/Kg		117	59 - 127	
Benzo[k]fluoranthene	267	312		ug/Kg		117	63 - 127	
Benzo[a]pyrene	267	306		ug/Kg		115	60 - 120	
Indeno[1,2,3-cd]pyrene	267	318		ug/Kg		119	55 - 128	
Dibenz(a,h)anthracene	267	327		ug/Kg		123	60 - 128	
Benzo[g,h,i]perylene	267	313		ug/Kg		117	58 - 129	

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
Nitrobenzene-d5	115		31 - 120
2-Fluorobiphenyl (Surr)	118		46 - 120
p-Terphenyl-d14	134		61 - 136

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 590-22371/2-A
Matrix: Solid
Analysis Batch: 22389

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 22371

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Lead	3.79		3.0		mg/Kg		05/29/19 13:51	05/30/19 12:16	1

Lab Sample ID: LCS 590-22371/1-A
Matrix: Solid
Analysis Batch: 22389

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 22371

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	
Lead	50.0	53.5		mg/Kg		107	80 - 120	

Lab Chronicle

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014001

Job ID: 590-11043-1

Client Sample ID: TP-69 (6)

Date Collected: 05/20/19 14:42

Date Received: 05/20/19 15:40

Lab Sample ID: 590-11043-1

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			22296	05/23/19 16:01	NMI	TAL SPK

Client Sample ID: TP-69 (6)

Date Collected: 05/20/19 14:42

Date Received: 05/20/19 15:40

Lab Sample ID: 590-11043-1

Matrix: Solid

Percent Solids: 85.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			15.15 g	2 mL	22295	05/23/19 15:53	NMI	TAL SPK
Total/NA	Analysis	8270D SIM		10			22292	05/23/19 19:48	NMI	TAL SPK
Total/NA	Prep	3550C			15.15 g	2 mL	22295	05/23/19 15:53	NMI	TAL SPK
Total/NA	Analysis	8270D SIM		100			22298	05/24/19 10:55	NMI	TAL SPK
Total/NA	Prep	3050B			1.36 g	50 mL	22371	05/29/19 13:51	JSP	TAL SPK
Total/NA	Analysis	6010C		10			22439	06/04/19 10:25	JSP	TAL SPK

Client Sample ID: TP-69 (12)

Date Collected: 05/20/19 14:50

Date Received: 05/20/19 15:40

Lab Sample ID: 590-11043-2

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			22422	06/03/19 15:53	SJK	TAL SPK

Client Sample ID: TP-69 (12)

Date Collected: 05/20/19 14:50

Date Received: 05/20/19 15:40

Lab Sample ID: 590-11043-2

Matrix: Solid

Percent Solids: 80.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			15.30 g	2 mL	22421	06/03/19 15:26	NMI	TAL SPK
Total/NA	Analysis	8270D SIM		1			22420	06/03/19 22:18	NMI	TAL SPK

Client Sample ID: TP-70 (6)

Date Collected: 05/20/19 14:22

Date Received: 05/20/19 15:40

Lab Sample ID: 590-11043-3

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			22296	05/23/19 16:01	NMI	TAL SPK

Client Sample ID: TP-70 (6)

Date Collected: 05/20/19 14:22

Date Received: 05/20/19 15:40

Lab Sample ID: 590-11043-3

Matrix: Solid

Percent Solids: 81.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			15.52 g	2 mL	22295	05/23/19 15:53	NMI	TAL SPK
Total/NA	Analysis	8270D SIM		1			22292	05/23/19 20:14	NMI	TAL SPK
Total/NA	Prep	3050B			1.31 g	50 mL	22371	05/29/19 13:51	JSP	TAL SPK
Total/NA	Analysis	6010C		1			22439	06/04/19 10:38	JSP	TAL SPK

Eurofins TestAmerica, Spokane

Lab Chronicle

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014001

Job ID: 590-11043-1

Client Sample ID: TP-70 (12)

Date Collected: 05/20/19 14:30

Date Received: 05/20/19 15:40

Lab Sample ID: 590-11043-4

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			22422	06/03/19 15:53	SJK	TAL SPK

Client Sample ID: TP-70 (12)

Date Collected: 05/20/19 14:30

Date Received: 05/20/19 15:40

Lab Sample ID: 590-11043-4

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			15.36 g	2 mL	22421	06/03/19 15:26	NMI	TAL SPK
Total/NA	Analysis	8270D SIM		1			22420	06/03/19 22:44	NMI	TAL SPK

Client Sample ID: TP-71 (6)

Date Collected: 05/20/19 13:56

Date Received: 05/20/19 15:40

Lab Sample ID: 590-11043-5

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			22296	05/23/19 16:01	NMI	TAL SPK

Client Sample ID: TP-71 (6)

Date Collected: 05/20/19 13:56

Date Received: 05/20/19 15:40

Lab Sample ID: 590-11043-5

Matrix: Solid

Percent Solids: 84.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			15.39 g	2 mL	22295	05/23/19 15:53	NMI	TAL SPK
Total/NA	Analysis	8270D SIM		10			22292	05/23/19 20:40	NMI	TAL SPK
Total/NA	Prep	3050B			1.40 g	50 mL	22371	05/29/19 13:51	JSP	TAL SPK
Total/NA	Analysis	6010C		1			22439	06/04/19 10:42	JSP	TAL SPK

Client Sample ID: TP-71 (12)

Date Collected: 05/20/19 14:08

Date Received: 05/20/19 15:40

Lab Sample ID: 590-11043-6

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			22422	06/03/19 15:53	SJK	TAL SPK

Client Sample ID: TP-71 (12)

Date Collected: 05/20/19 14:08

Date Received: 05/20/19 15:40

Lab Sample ID: 590-11043-6

Matrix: Solid

Percent Solids: 80.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			15.81 g	2 mL	22421	06/03/19 15:26	NMI	TAL SPK
Total/NA	Analysis	8270D SIM		1			22420	06/03/19 23:10	NMI	TAL SPK

Lab Chronicle

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014001

Job ID: 590-11043-1

Client Sample ID: TP-72 (6)

Date Collected: 05/20/19 13:32

Date Received: 05/20/19 15:40

Lab Sample ID: 590-11043-7

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			22296	05/23/19 16:01	NMI	TAL SPK

Client Sample ID: TP-72 (6)

Date Collected: 05/20/19 13:32

Date Received: 05/20/19 15:40

Lab Sample ID: 590-11043-7

Matrix: Solid

Percent Solids: 85.4

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	22295	05/23/19 15:53	NMI	TAL SPK
Total/NA	Analysis	8270D SIM		10			22292	05/23/19 21:07	NMI	TAL SPK
Total/NA	Prep	3050B			1.32 g	50 mL	22371	05/29/19 13:51	JSP	TAL SPK
Total/NA	Analysis	6010C		1			22439	06/04/19 10:46	JSP	TAL SPK

Client Sample ID: TP-72 (12)

Date Collected: 05/20/19 13:44

Date Received: 05/20/19 15:40

Lab Sample ID: 590-11043-8

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			22422	06/03/19 15:53	SJK	TAL SPK

Client Sample ID: TP-72 (12)

Date Collected: 05/20/19 13:44

Date Received: 05/20/19 15:40

Lab Sample ID: 590-11043-8

Matrix: Solid

Percent Solids: 84.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			15.30 g	2 mL	22421	06/03/19 15:26	NMI	TAL SPK
Total/NA	Analysis	8270D SIM		1			22420	06/03/19 23:36	NMI	TAL SPK

Laboratory References:

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

Accreditation/Certification Summary

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014001

Job ID: 590-11043-1

Laboratory: Eurofins 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	01-06-20

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

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

Method Summary

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014001

Job ID: 590-11043-1

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

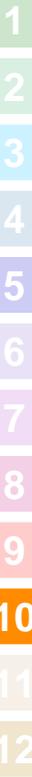
Protocol References:

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



Sample Custody Record

Samples Shipped to: Test America



Hart Crowser, Inc.
1700 Westlake Avenue North, Suite 200
Seattle, Washington 98109-6212
Office: 206.324.9530 • Fax 206.328.5581

JOB <u>150014001</u> LAB NUMBER _____ PROJECT NAME <u>LVSD</u> HART CROWSER CONTACT <u>John Haney</u> SAMPLED BY: <u>Keylin Huddleston</u>						REQUESTED ANALYSIS PAHs Pb (lead)										NO. OF CONTAINERS	OBSERVATIONS/COMMENTS/ COMPOSITING INSTRUCTIONS	
LAB NO.	SAMPLE ID	DESCRIPTION	DATE	TIME	MATRIX													
	TP-69(6)		5/20/14	14:22	Soil	X	X										1	
	TP-69(12)			14:30	50												1	Hold
	TP-70(6)			14:22		X	X										1	
	TP-70(12)			14:30													1	Hold
	TP-71(6)			13:56		X	X										1	
	TP-71(12)			14:08													1	Hold
	TP-72(6)			13:32		X	X										1	
	TP-72(12)			13:44													1	Hold
																590-11043 Chain of Custody		
RELINQUISHED BY <u>Keylin Huddleston</u> SIGNATURE		DATE 5/20	RECEIVED BY <u>Matt Suda</u> SIGNATURE		DATE 5.20.14	SPECIAL SHIPMENT HANDLING OR STORAGE REQUIREMENTS: 21°C (1000g)										TOTAL NUMBER OF CONTAINERS		
PRINT NAME Keylin Huddleston		TIME 15:40	PRINT NAME Matt Suda		TIME 1537											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		
COMPANY Hart Crowser			COMPANY													TURNAROUND TIME: <input type="checkbox"/> 24 HOURS <input type="checkbox"/> 1 WEEK <input type="checkbox"/> 48 HOURS <input checked="" type="checkbox"/> STANDARD <input type="checkbox"/> 72 HOURS OTHER _____		
RELINQUISHED BY _____ SIGNATURE		DATE _____ TIME	RECEIVED BY _____ SIGNATURE		DATE _____ TIME	COOLER NO.: _____					STORAGE LOCATION: _____					See Lab Work Order No. _____ for Other Contract Requirements		
PRINT NAME _____ COMPANY			PRINT NAME _____ COMPANY															

Login Sample Receipt Checklist

Client: Hart Crowser, Inc.

Job Number: 590-11043-1

Login Number: 11043

List Number: 1

Creator: Suda, Matt R

List Source: Eurofins TestAmerica, Spokane

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	
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").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



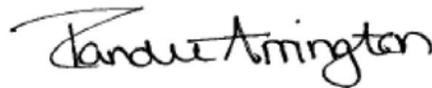
ANALYTICAL REPORT

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

Laboratory Job ID: 590-11043-2
Client Project/Site: CVSD/15014001

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

Attn: John Haney



Authorized for release by:
6/17/2019 9:20:19 AM

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

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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.



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Case Narrative

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014001

Job ID: 590-11043-2

Job ID: 590-11043-2

Laboratory: Eurofins TestAmerica, Spokane

Narrative

Receipt

The samples were received on 5/20/2019 3:07 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.1° C.

Receipt Exceptions

The following samples were activated for 6010C Lead analysis by the client on 06/05/19: TP-69 (12) (590-11043-2) and TP-71 (12) (590-11043-6). This analysis was not originally requested on the chain-of-custody (COC).

Metals

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

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Sample Summary

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014001

Job ID: 590-11043-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
590-11043-2	TP-69 (12)	Solid	05/20/19 14:50	05/20/19 15:40	
590-11043-6	TP-71 (12)	Solid	05/20/19 14:08	05/20/19 15:40	

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Definitions/Glossary

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014001

Job ID: 590-11043-2

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: CVSD/15014001

Job ID: 590-11043-2

Client Sample ID: TP-69 (12)

Date Collected: 05/20/19 14:50

Date Received: 05/20/19 15:40

Lab Sample ID: 590-11043-2

Matrix: Solid

Percent Solids: 80.8

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	47		2.7		mg/Kg	☼	06/12/19 10:20	06/13/19 17:03	1

Client Sample ID: TP-71 (12)

Date Collected: 05/20/19 14:08

Date Received: 05/20/19 15:40

Lab Sample ID: 590-11043-6

Matrix: Solid

Percent Solids: 80.2

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	80		3.0		mg/Kg	☼	06/12/19 10:20	06/13/19 17:07	1

QC Sample Results

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014001

Job ID: 590-11043-2

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 590-22536/2-A
Matrix: Solid
Analysis Batch: 22592

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 22536

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		3.0		mg/Kg		06/12/19 10:20	06/13/19 16:21	1

Lab Sample ID: LCS 590-22536/1-A
Matrix: Solid
Analysis Batch: 22592

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 22536

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	50.0	51.4		mg/Kg		103	80 - 120

Lab Chronicle

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014001

Job ID: 590-11043-2

Client Sample ID: TP-69 (12)

Date Collected: 05/20/19 14:50

Date Received: 05/20/19 15:40

Lab Sample ID: 590-11043-2

Matrix: Solid

Percent Solids: 80.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			1.36 g	50 mL	22536	06/12/19 10:20	JSP	TAL SPK
Total/NA	Analysis	6010C		1			22592	06/13/19 17:03	JSP	TAL SPK

Client Sample ID: TP-71 (12)

Date Collected: 05/20/19 14:08

Date Received: 05/20/19 15:40

Lab Sample ID: 590-11043-6

Matrix: Solid

Percent Solids: 80.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			1.24 g	50 mL	22536	06/12/19 10:20	JSP	TAL SPK
Total/NA	Analysis	6010C		1			22592	06/13/19 17:07	JSP	TAL SPK

Laboratory References:

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

Accreditation/Certification Summary

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014001

Job ID: 590-11043-2

Laboratory: Eurofins 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	01-06-20

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

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: CVSD/15014001

Job ID: 590-11043-2

Method	Method Description	Protocol	Laboratory
6010C	Metals (ICP)	SW846	TAL SPK
3050B	Preparation, Metals	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 = Eurofins TestAmerica, Spokane, 11922 East 1st Ave, Spokane, WA 99206, TEL (509)924-9200



Sample Custody Record

Samples Shipped to: Test America



Hart Crowser, Inc.
1700 Westlake Avenue North, Suite 200
Seattle, Washington 98109-6212
Office: 206.324.9530 • Fax 206.328.5581

JOB <u>150014001</u> LAB NUMBER _____ PROJECT NAME <u>LVSD</u> HART CROWSER CONTACT <u>John Haney</u> SAMPLED BY: <u>Keylin Huddleston</u>						REQUESTED ANALYSIS						NO. OF CONTAINERS	OBSERVATIONS/COMMENTS/ COMPOSITING INSTRUCTIONS		
						PAHs	Pb (lead)								
LAB NO.	SAMPLE ID	DESCRIPTION	DATE	TIME	MATRIX										
	TP-69(6)		5/20/19	14:22	Soil	X	X							1	
	TP-69(12)			14:30	50									1	Hold
	TP-70(6)			14:22		X	X							1	
	TP-70(12)			14:30										1	Hold
	TP-71(6)			13:56		X	X							1	
	TP-71(12)			14:08										1	Hold
	TP-72(6)			13:32		X	X							1	
	TP-72(12)			13:44										1	Hold
 590-11043 Chain of Custody															
RELINQUISHED BY		DATE	RECEIVED BY		DATE	SPECIAL SHIPMENT HANDLING OR STORAGE REQUIREMENTS: <u>21°C (1000G)</u>						TOTAL NUMBER OF CONTAINERS			
SIGNATURE		TIME	SIGNATURE		TIME							SAMPLE RECEIPT INFORMATION			
PRINT NAME			PRINT NAME									CUSTODY SEALS:			
COMPANY			COMPANY									<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			
RELINQUISHED BY		DATE	RECEIVED BY		DATE	COOLER NO.:				STORAGE LOCATION:					
SIGNATURE		TIME	SIGNATURE		TIME	See Lab Work Order No. _____				TURNAROUND TIME:					
PRINT NAME			PRINT NAME			for Other Contract Requirements				<input type="checkbox"/> 24 HOURS <input type="checkbox"/> 1 WEEK <input type="checkbox"/> 48 HOURS <input checked="" type="checkbox"/> STANDARD <input type="checkbox"/> 72 HOURS OTHER _____					
COMPANY			COMPANY												

Login Sample Receipt Checklist

Client: Hart Crowser, Inc.

Job Number: 590-11043-2

Login Number: 11043

List Number: 1

Creator: Suda, Matt R

List Source: Eurofins TestAmerica, Spokane

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	
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").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



ANALYTICAL REPORT

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

Laboratory Job ID: 590-14035-1
Client Project/Site: CVSD/15014004

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

Attn: John Haney



*Authorized for release by:
10/29/2020 5:41:27 PM*

Randee Arrington, Project Manager II
(509)924-9200
Randee.Arrington@Eurofinset.com

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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.



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Case Narrative

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014004

Job ID: 590-14035-1

Job ID: 590-14035-1

Laboratory: Eurofins TestAmerica, Spokane

Narrative

Receipt

The samples were received on 10/9/2020 2:25 PM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 2.8° C.

GC/MS Semi VOA

Method 8270E SIM: The following samples required a dilution due to the nature of the sample matrix: SB-5(0-1) (590-14035-8) and SB-8(0-1) (590-14035-17). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

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

Metals

Method 6010D: The low level continuing calibration verification (CCVL) associated with batch 590-29494 recovered above the upper control limit for Lead. The samples associated with this CCV were >10x for the affected analytes; therefore, the data have been reported. The following samples are affected: SB-12(2-3) (590-14035-27) and SB-18(5-6) (590-14035-33).

Method 6010D: The low level continuing calibration verification (CCVL) associated with batch 590-29482 recovered above the upper control limit for Lead. The samples associated with this CCV were either >10x or non-detects for the affected analytes; therefore, the data have been reported. The following samples are affected: SB-2(1-2) (590-14035-3) and SB-10(5-6) (590-14035-22).

Method 6010D: The low level continuing calibration verification (CCVL) associated with batch 590-29505 recovered above the upper control limit for Lead. The samples associated with this CCV were either >10x or non-detects for the affected analytes; therefore, the data have been reported. The following sample is affected: SB-15(0-1) (590-14035-30),

Method 6010D: The low level initial calibration verification (ICVL) associated with batch 590-29505 recovered above the upper control limit for Lead. The samples associated with this ICVL were >10x or non-detects for the affected analytes; therefore, the data have been reported. The following samples are affected: SB-3(0-1) (590-14035-4), SB-6(1-2) (590-14035-13), SB-9(1-2) (590-14035-18), SB-9(2-3) (590-14035-19), SB-10(0-1) (590-14035-21) and SB-11(0-1) (590-14035-23).

Method 6010D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 590-29507 and analytical batch 590-29525 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 6010D: The low level continuing calibration verification (CCVL) associated with batch 590-29525 recovered above the upper control limit for Lead. The samples associated with this CCV were either >10x or non-detects for the affected analytes; therefore, the data have been reported. The following sample is affected: SB-12(1-2) (590-14035-26).

No additional analytical or quality issues were noted, other than those described above or 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: CVSD/15014004

Job ID: 590-14035-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
590-14035-1	SB-1(1-2)	Solid	10/06/20 09:51	10/09/20 14:25	
590-14035-2	SB-1(3-4)	Solid	10/06/20 09:53	10/09/20 14:25	
590-14035-3	SB-2(1-2)	Solid	10/06/20 10:01	10/09/20 14:25	
590-14035-4	SB-3(0-1)	Solid	10/06/20 10:30	10/09/20 14:25	
590-14035-5	SB-3(2-3)	Solid	10/06/20 10:32	10/09/20 14:25	
590-14035-6	SB-3(4-5)	Solid	10/06/20 10:34	10/09/20 14:25	
590-14035-7	SB-4(2-3)	Solid	10/06/20 09:02	10/09/20 14:25	
590-14035-8	SB-5(0-1)	Solid	10/05/20 16:30	10/09/20 14:25	
590-14035-9	SB-5(1-2)	Solid	10/05/20 16:31	10/09/20 14:25	
590-14035-10	SB-5(2-3)	Solid	10/05/20 16:32	10/09/20 14:25	
590-14035-11	SB-5(6-7)	Solid	10/06/20 15:55	10/09/20 14:25	
590-14035-12	SB-6(0-1)	Solid	10/06/20 10:50	10/09/20 14:25	
590-14035-13	SB-6(1-2)	Solid	10/06/20 10:51	10/09/20 14:25	
590-14035-14	SB-6(3-4)	Solid	10/06/20 10:53	10/09/20 14:25	
590-14035-15	SB-7(0-1)	Solid	10/06/20 11:15	10/09/20 14:25	
590-14035-16	SB-7(2-3)	Solid	10/06/20 11:17	10/09/20 14:25	
590-14035-17	SB-8(0-1)	Solid	10/05/20 15:50	10/09/20 14:25	
590-14035-18	SB-9(1-2)	Solid	10/05/20 15:31	10/09/20 14:25	
590-14035-19	SB-9(2-3)	Solid	10/05/20 15:32	10/09/20 14:25	
590-14035-20	SB-9(3-4)	Solid	10/05/20 15:33	10/09/20 14:25	
590-14035-21	SB-10(0-1)	Solid	10/06/20 12:20	10/09/20 14:25	
590-14035-22	SB-10(5-6)	Solid	10/06/20 16:10	10/09/20 14:25	
590-14035-23	SB-11(0-1)	Solid	10/06/20 12:40	10/09/20 14:25	
590-14035-24	SB-11(1-2)	Solid	10/06/20 12:41	10/09/20 14:25	
590-14035-25	SB-12(0-1)	Solid	10/05/20 15:15	10/09/20 14:25	
590-14035-26	SB-12(1-2)	Solid	10/05/20 15:16	10/09/20 14:25	
590-14035-27	SB-12(2-3)	Solid	10/05/20 15:17	10/09/20 14:25	
590-14035-28	SB-13(1-2)	Solid	10/05/20 14:41	10/09/20 14:25	
590-14035-29	SB-13(2-3)	Solid	10/05/20 14:42	10/09/20 14:25	
590-14035-30	SB-15(0-1)	Solid	10/06/20 13:15	10/09/20 14:25	
590-14035-31	SB-15(1-2)	Solid	10/06/20 13:16	10/09/20 14:25	
590-14035-32	SB-17(3-4)	Solid	10/05/20 13:33	10/09/20 14:25	
590-14035-33	SB-18(5-6)	Solid	10/06/20 15:00	10/09/20 14:25	
590-14035-34	SB-18(6-7)	Solid	10/06/20 15:02	10/09/20 14:25	
590-14035-35	SB-19(6-7)	Solid	10/06/20 14:21	10/09/20 14:25	
590-14035-36	SB-20(5-6)	Solid	10/06/20 14:35	10/09/20 14:25	

Definitions/Glossary

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014004

Job ID: 590-14035-1

Qualifiers

GC/MS Semi VOA

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.
X	Surrogate recovery exceeds control limits

Metals

Qualifier	Qualifier Description
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.
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.
F3	Duplicate RPD exceeds the control limit

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
CFU	Colony Forming Unit
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)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
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)
TNTC	Too Numerous To Count

Client Sample Results

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014004

Job ID: 590-14035-1

Client Sample ID: SB-1(1-2)

Date Collected: 10/06/20 09:51

Date Received: 10/09/20 14:25

Lab Sample ID: 590-14035-1

Matrix: Solid

Percent Solids: 82.8

Method: 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	14		1.2		mg/Kg	☼	10/21/20 09:30	10/26/20 12:32	1

Client Sample ID: SB-1(3-4)

Date Collected: 10/06/20 09:53

Date Received: 10/09/20 14:25

Lab Sample ID: 590-14035-2

Matrix: Solid

Percent Solids: 95.5

Method: 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	8.2		0.96		mg/Kg	☼	10/21/20 09:30	10/26/20 12:36	1

Client Sample ID: SB-2(1-2)

Date Collected: 10/06/20 10:01

Date Received: 10/09/20 14:25

Lab Sample ID: 590-14035-3

Matrix: Solid

Percent Solids: 93.9

Method: 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	280	^	2.6		mg/Kg	☼	10/21/20 09:30	10/26/20 12:40	1

Client Sample ID: SB-3(0-1)

Date Collected: 10/06/20 10:30

Date Received: 10/09/20 14:25

Lab Sample ID: 590-14035-4

Matrix: Solid

Percent Solids: 93.0

Method: 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	13000	^	270		mg/Kg	☼	10/21/20 09:30	10/27/20 23:51	100

Client Sample ID: SB-3(2-3)

Date Collected: 10/06/20 10:32

Date Received: 10/09/20 14:25

Lab Sample ID: 590-14035-5

Matrix: Solid

Percent Solids: 94.1

Method: 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	18		1.0		mg/Kg	☼	10/21/20 09:30	10/26/20 12:47	1

Client Sample ID: SB-3(4-5)

Date Collected: 10/06/20 10:34

Date Received: 10/09/20 14:25

Lab Sample ID: 590-14035-6

Matrix: Solid

Percent Solids: 94.5

Method: 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	13		0.91		mg/Kg	☼	10/21/20 09:30	10/26/20 12:51	1

Client Sample ID: SB-4(2-3)

Date Collected: 10/06/20 09:02

Date Received: 10/09/20 14:25

Lab Sample ID: 590-14035-7

Matrix: Solid

Percent Solids: 93.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		100		ug/Kg	☼	10/13/20 12:37	10/13/20 15:28	10
2-Methylnaphthalene	ND		100		ug/Kg	☼	10/13/20 12:37	10/13/20 15:28	10
1-Methylnaphthalene	ND		100		ug/Kg	☼	10/13/20 12:37	10/13/20 15:28	10
Acenaphthylene	ND		100		ug/Kg	☼	10/13/20 12:37	10/13/20 15:28	10

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Client Sample Results

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014004

Job ID: 590-14035-1

Client Sample ID: SB-4(2-3)

Lab Sample ID: 590-14035-7

Date Collected: 10/06/20 09:02

Matrix: Solid

Date Received: 10/09/20 14:25

Percent Solids: 93.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	240		100		ug/Kg	☼	10/13/20 12:37	10/13/20 15:28	10
Fluorene	ND		100		ug/Kg	☼	10/13/20 12:37	10/13/20 15:28	10
Phenanthrene	1200		100		ug/Kg	☼	10/13/20 12:37	10/13/20 15:28	10
Anthracene	300		100		ug/Kg	☼	10/13/20 12:37	10/13/20 15:28	10
Fluoranthene	3100		100		ug/Kg	☼	10/13/20 12:37	10/13/20 15:28	10
Pyrene	3700		100		ug/Kg	☼	10/13/20 12:37	10/13/20 15:28	10
Benzo[a]anthracene	2600		100		ug/Kg	☼	10/13/20 12:37	10/13/20 15:28	10
Chrysene	3200		100		ug/Kg	☼	10/13/20 12:37	10/13/20 15:28	10
Benzo[b]fluoranthene	4000		100		ug/Kg	☼	10/13/20 12:37	10/13/20 15:28	10
Benzo[k]fluoranthene	1200		100		ug/Kg	☼	10/13/20 12:37	10/13/20 15:28	10
Benzo[a]pyrene	4000		100		ug/Kg	☼	10/13/20 12:37	10/13/20 15:28	10
Indeno[1,2,3-cd]pyrene	2100		100		ug/Kg	☼	10/13/20 12:37	10/13/20 15:28	10
Dibenz(a,h)anthracene	670		100		ug/Kg	☼	10/13/20 12:37	10/13/20 15:28	10
Benzo[g,h,i]perylene	2600		100		ug/Kg	☼	10/13/20 12:37	10/13/20 15:28	10
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	73		43 - 120				10/13/20 12:37	10/13/20 15:28	10
2-Fluorobiphenyl (Surr)	85		56 - 120				10/13/20 12:37	10/13/20 15:28	10
p-Terphenyl-d14	98		74 - 136				10/13/20 12:37	10/13/20 15:28	10

Client Sample ID: SB-5(0-1)

Lab Sample ID: 590-14035-8

Date Collected: 10/05/20 16:30

Matrix: Solid

Date Received: 10/09/20 14:25

Percent Solids: 91.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	5800		5400		ug/Kg	☼	10/13/20 12:37	10/13/20 16:50	100
2-Methylnaphthalene	5900		5400		ug/Kg	☼	10/13/20 12:37	10/13/20 16:50	100
1-Methylnaphthalene	ND		5400		ug/Kg	☼	10/13/20 12:37	10/13/20 16:50	100
Acenaphthylene	ND		5400		ug/Kg	☼	10/13/20 12:37	10/13/20 16:50	100
Acenaphthene	87000		5400		ug/Kg	☼	10/13/20 12:37	10/13/20 16:50	100
Fluorene	33000		5400		ug/Kg	☼	10/13/20 12:37	10/13/20 16:50	100
Phenanthrene	470000		5400		ug/Kg	☼	10/13/20 12:37	10/13/20 16:50	100
Anthracene	130000		5400		ug/Kg	☼	10/13/20 12:37	10/13/20 16:50	100
Fluoranthene	1100000		5400		ug/Kg	☼	10/13/20 12:37	10/13/20 16:50	100
Pyrene	1200000		5400		ug/Kg	☼	10/13/20 12:37	10/13/20 16:50	100
Benzo[a]anthracene	970000		5400		ug/Kg	☼	10/13/20 12:37	10/13/20 16:50	100
Chrysene	1000000		5400		ug/Kg	☼	10/13/20 12:37	10/13/20 16:50	100
Benzo[b]fluoranthene	1400000		5400		ug/Kg	☼	10/13/20 12:37	10/13/20 16:50	100
Benzo[k]fluoranthene	500000		5400		ug/Kg	☼	10/13/20 12:37	10/13/20 16:50	100
Benzo[a]pyrene	1400000		5400		ug/Kg	☼	10/13/20 12:37	10/13/20 16:50	100
Indeno[1,2,3-cd]pyrene	620000		5400		ug/Kg	☼	10/13/20 12:37	10/13/20 16:50	100
Dibenz(a,h)anthracene	210000		5400		ug/Kg	☼	10/13/20 12:37	10/13/20 16:50	100
Benzo[g,h,i]perylene	800000		5400		ug/Kg	☼	10/13/20 12:37	10/13/20 16:50	100
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	0	X	43 - 120				10/13/20 12:37	10/13/20 16:50	100
2-Fluorobiphenyl (Surr)	99		56 - 120				10/13/20 12:37	10/13/20 16:50	100
p-Terphenyl-d14	180	X	74 - 136				10/13/20 12:37	10/13/20 16:50	100

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Client Sample Results

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014004

Job ID: 590-14035-1

Client Sample ID: SB-5(1-2)

Lab Sample ID: 590-14035-9

Date Collected: 10/05/20 16:31

Matrix: Solid

Date Received: 10/09/20 14:25

Percent Solids: 86.9

Method: 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	10		1.1		mg/Kg	☼	10/21/20 09:30	10/26/20 12:54	1

Client Sample ID: SB-5(2-3)

Lab Sample ID: 590-14035-10

Date Collected: 10/05/20 16:32

Matrix: Solid

Date Received: 10/09/20 14:25

Percent Solids: 89.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	440		110		ug/Kg	☼	10/13/20 12:37	10/13/20 17:17	10
2-Methylnaphthalene	300		110		ug/Kg	☼	10/13/20 12:37	10/13/20 17:17	10
1-Methylnaphthalene	190		110		ug/Kg	☼	10/13/20 12:37	10/13/20 17:17	10
Acenaphthylene	ND		110		ug/Kg	☼	10/13/20 12:37	10/13/20 17:17	10
Acenaphthene	3500		110		ug/Kg	☼	10/13/20 12:37	10/13/20 17:17	10
Fluorene	1300		110		ug/Kg	☼	10/13/20 12:37	10/13/20 17:17	10
Phenanthrene	18000		110		ug/Kg	☼	10/13/20 12:37	10/13/20 17:17	10
Anthracene	4600		110		ug/Kg	☼	10/13/20 12:37	10/13/20 17:17	10
Fluoranthene	41000		1100		ug/Kg	☼	10/13/20 12:37	10/16/20 11:41	100
Pyrene	46000		1100		ug/Kg	☼	10/13/20 12:37	10/16/20 11:41	100
Benzo[a]anthracene	36000		1100		ug/Kg	☼	10/13/20 12:37	10/16/20 11:41	100
Chrysene	42000		1100		ug/Kg	☼	10/13/20 12:37	10/16/20 11:41	100
Benzo[b]fluoranthene	55000		1100		ug/Kg	☼	10/13/20 12:37	10/16/20 11:41	100
Benzo[k]fluoranthene	20000		110		ug/Kg	☼	10/13/20 12:37	10/13/20 17:17	10
Benzo[a]pyrene	54000		1100		ug/Kg	☼	10/13/20 12:37	10/16/20 11:41	100
Indeno[1,2,3-cd]pyrene	24000		110		ug/Kg	☼	10/13/20 12:37	10/13/20 17:17	10
Dibenz(a,h)anthracene	7900		110		ug/Kg	☼	10/13/20 12:37	10/13/20 17:17	10
Benzo[g,h,i]perylene	27000		110		ug/Kg	☼	10/13/20 12:37	10/13/20 17:17	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	78		43 - 120	10/13/20 12:37	10/13/20 17:17	10
Nitrobenzene-d5	85		43 - 120	10/13/20 12:37	10/16/20 11:41	100
2-Fluorobiphenyl (Surr)	82		56 - 120	10/13/20 12:37	10/13/20 17:17	10
2-Fluorobiphenyl (Surr)	81		56 - 120	10/13/20 12:37	10/16/20 11:41	100
p-Terphenyl-d14	93		74 - 136	10/13/20 12:37	10/13/20 17:17	10
p-Terphenyl-d14	90		74 - 136	10/13/20 12:37	10/16/20 11:41	100

Client Sample ID: SB-5(6-7)

Lab Sample ID: 590-14035-11

Date Collected: 10/06/20 15:55

Matrix: Solid

Date Received: 10/09/20 14:25

Percent Solids: 95.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		10		ug/Kg	☼	10/13/20 12:37	10/13/20 17:43	1
2-Methylnaphthalene	ND		10		ug/Kg	☼	10/13/20 12:37	10/13/20 17:43	1
1-Methylnaphthalene	ND		10		ug/Kg	☼	10/13/20 12:37	10/13/20 17:43	1
Acenaphthylene	ND		10		ug/Kg	☼	10/13/20 12:37	10/13/20 17:43	1
Acenaphthene	10		10		ug/Kg	☼	10/13/20 12:37	10/13/20 17:43	1
Fluorene	ND		10		ug/Kg	☼	10/13/20 12:37	10/13/20 17:43	1
Phenanthrene	73		10		ug/Kg	☼	10/13/20 12:37	10/13/20 17:43	1
Anthracene	18		10		ug/Kg	☼	10/13/20 12:37	10/13/20 17:43	1
Fluoranthene	220		10		ug/Kg	☼	10/13/20 12:37	10/13/20 17:43	1
Pyrene	240		10		ug/Kg	☼	10/13/20 12:37	10/13/20 17:43	1

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Client Sample Results

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014004

Job ID: 590-14035-1

Client Sample ID: SB-5(6-7)

Date Collected: 10/06/20 15:55

Date Received: 10/09/20 14:25

Lab Sample ID: 590-14035-11

Matrix: Solid

Percent Solids: 95.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	190		10		ug/Kg	☼	10/13/20 12:37	10/13/20 17:43	1
Chrysene	210		10		ug/Kg	☼	10/13/20 12:37	10/13/20 17:43	1
Benzo[b]fluoranthene	300		10		ug/Kg	☼	10/13/20 12:37	10/13/20 17:43	1
Benzo[k]fluoranthene	100		10		ug/Kg	☼	10/13/20 12:37	10/13/20 17:43	1
Benzo[a]pyrene	270		10		ug/Kg	☼	10/13/20 12:37	10/13/20 17:43	1
Indeno[1,2,3-cd]pyrene	140		10		ug/Kg	☼	10/13/20 12:37	10/13/20 17:43	1
Dibenz(a,h)anthracene	46		10		ug/Kg	☼	10/13/20 12:37	10/13/20 17:43	1
Benzo[g,h,i]perylene	170		10		ug/Kg	☼	10/13/20 12:37	10/13/20 17:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	61		43 - 120	10/13/20 12:37	10/13/20 17:43	1
2-Fluorobiphenyl (Surr)	68		56 - 120	10/13/20 12:37	10/13/20 17:43	1
p-Terphenyl-d14	91		74 - 136	10/13/20 12:37	10/13/20 17:43	1

Client Sample ID: SB-6(0-1)

Date Collected: 10/06/20 10:50

Date Received: 10/09/20 14:25

Lab Sample ID: 590-14035-12

Matrix: Solid

Percent Solids: 94.1

Method: 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	84		1.1		mg/Kg	☼	10/21/20 09:30	10/26/20 12:58	1

Client Sample ID: SB-6(1-2)

Date Collected: 10/06/20 10:51

Date Received: 10/09/20 14:25

Lab Sample ID: 590-14035-13

Matrix: Solid

Percent Solids: 91.1

Method: 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	2300	^	22		mg/Kg	☼	10/21/20 09:30	10/27/20 23:55	10

Client Sample ID: SB-6(3-4)

Date Collected: 10/06/20 10:53

Date Received: 10/09/20 14:25

Lab Sample ID: 590-14035-14

Matrix: Solid

Percent Solids: 92.7

Method: 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	9.8		1.1		mg/Kg	☼	10/21/20 09:30	10/26/20 13:06	1

Client Sample ID: SB-7(0-1)

Date Collected: 10/06/20 11:15

Date Received: 10/09/20 14:25

Lab Sample ID: 590-14035-15

Matrix: Solid

Percent Solids: 93.0

Method: 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	15		2.0		mg/Kg	☼	10/21/20 09:30	10/27/20 23:58	2

Client Sample Results

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014004

Job ID: 590-14035-1

Client Sample ID: SB-7(2-3)

Lab Sample ID: 590-14035-16

Date Collected: 10/06/20 11:17

Matrix: Solid

Date Received: 10/09/20 14:25

Percent Solids: 95.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		9.9		ug/Kg	✱	10/13/20 12:37	10/13/20 18:09	1
2-Methylnaphthalene	ND		9.9		ug/Kg	✱	10/13/20 12:37	10/13/20 18:09	1
1-Methylnaphthalene	ND		9.9		ug/Kg	✱	10/13/20 12:37	10/13/20 18:09	1
Acenaphthylene	ND		9.9		ug/Kg	✱	10/13/20 12:37	10/13/20 18:09	1
Acenaphthene	ND		9.9		ug/Kg	✱	10/13/20 12:37	10/13/20 18:09	1
Fluorene	ND		9.9		ug/Kg	✱	10/13/20 12:37	10/13/20 18:09	1
Phenanthrene	ND		9.9		ug/Kg	✱	10/13/20 12:37	10/13/20 18:09	1
Anthracene	ND		9.9		ug/Kg	✱	10/13/20 12:37	10/13/20 18:09	1
Fluoranthene	ND		9.9		ug/Kg	✱	10/13/20 12:37	10/13/20 18:09	1
Pyrene	ND		9.9		ug/Kg	✱	10/13/20 12:37	10/13/20 18:09	1
Benzo[a]anthracene	ND		9.9		ug/Kg	✱	10/13/20 12:37	10/13/20 18:09	1
Chrysene	ND		9.9		ug/Kg	✱	10/13/20 12:37	10/13/20 18:09	1
Benzo[b]fluoranthene	ND		9.9		ug/Kg	✱	10/13/20 12:37	10/13/20 18:09	1
Benzo[k]fluoranthene	ND		9.9		ug/Kg	✱	10/13/20 12:37	10/13/20 18:09	1
Benzo[a]pyrene	ND		9.9		ug/Kg	✱	10/13/20 12:37	10/13/20 18:09	1
Indeno[1,2,3-cd]pyrene	ND		9.9		ug/Kg	✱	10/13/20 12:37	10/13/20 18:09	1
Dibenz(a,h)anthracene	ND		9.9		ug/Kg	✱	10/13/20 12:37	10/13/20 18:09	1
Benzo[g,h,i]perylene	ND		9.9		ug/Kg	✱	10/13/20 12:37	10/13/20 18:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	71		43 - 120	10/13/20 12:37	10/13/20 18:09	1
2-Fluorobiphenyl (Surr)	79		56 - 120	10/13/20 12:37	10/13/20 18:09	1
p-Terphenyl-d14	86		74 - 136	10/13/20 12:37	10/13/20 18:09	1

Client Sample ID: SB-8(0-1)

Lab Sample ID: 590-14035-17

Date Collected: 10/05/20 15:50

Matrix: Solid

Date Received: 10/09/20 14:25

Percent Solids: 89.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	10000		5600		ug/Kg	✱	10/13/20 12:37	10/13/20 18:35	100
2-Methylnaphthalene	7800		5600		ug/Kg	✱	10/13/20 12:37	10/13/20 18:35	100
1-Methylnaphthalene	ND		5600		ug/Kg	✱	10/13/20 12:37	10/13/20 18:35	100
Acenaphthylene	ND		5600		ug/Kg	✱	10/13/20 12:37	10/13/20 18:35	100
Acenaphthene	83000		5600		ug/Kg	✱	10/13/20 12:37	10/13/20 18:35	100
Fluorene	29000		5600		ug/Kg	✱	10/13/20 12:37	10/13/20 18:35	100
Phenanthrene	460000		5600		ug/Kg	✱	10/13/20 12:37	10/13/20 18:35	100
Anthracene	120000		5600		ug/Kg	✱	10/13/20 12:37	10/13/20 18:35	100
Fluoranthene	1000000		5600		ug/Kg	✱	10/13/20 12:37	10/13/20 18:35	100
Pyrene	1300000		5600		ug/Kg	✱	10/13/20 12:37	10/13/20 18:35	100
Benzo[a]anthracene	890000		5600		ug/Kg	✱	10/13/20 12:37	10/13/20 18:35	100
Chrysene	1000000		5600		ug/Kg	✱	10/13/20 12:37	10/13/20 18:35	100
Benzo[b]fluoranthene	1400000		5600		ug/Kg	✱	10/13/20 12:37	10/13/20 18:35	100
Benzo[k]fluoranthene	520000		5600		ug/Kg	✱	10/13/20 12:37	10/13/20 18:35	100
Benzo[a]pyrene	1400000		5600		ug/Kg	✱	10/13/20 12:37	10/13/20 18:35	100
Indeno[1,2,3-cd]pyrene	610000		5600		ug/Kg	✱	10/13/20 12:37	10/13/20 18:35	100
Dibenz(a,h)anthracene	210000		5600		ug/Kg	✱	10/13/20 12:37	10/13/20 18:35	100
Benzo[g,h,i]perylene	720000		5600		ug/Kg	✱	10/13/20 12:37	10/13/20 18:35	100

Eurofins TestAmerica, Spokane

Client Sample Results

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014004

Job ID: 590-14035-1

Client Sample ID: SB-8(0-1)

Date Collected: 10/05/20 15:50

Date Received: 10/09/20 14:25

Lab Sample ID: 590-14035-17

Matrix: Solid

Percent Solids: 89.3

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	0	X	43 - 120	10/13/20 12:37	10/13/20 18:35	100
2-Fluorobiphenyl (Surr)	97		56 - 120	10/13/20 12:37	10/13/20 18:35	100
p-Terphenyl-d14	162	X	74 - 136	10/13/20 12:37	10/13/20 18:35	100

Client Sample ID: SB-9(1-2)

Date Collected: 10/05/20 15:31

Date Received: 10/09/20 14:25

Lab Sample ID: 590-14035-18

Matrix: Solid

Percent Solids: 94.7

Method: 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	510	^	11		mg/Kg	☼	10/21/20 09:30	10/28/20 00:02	5

Client Sample ID: SB-9(2-3)

Date Collected: 10/05/20 15:32

Date Received: 10/09/20 14:25

Lab Sample ID: 590-14035-19

Matrix: Solid

Percent Solids: 95.7

Method: 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	470	^	4.7		mg/Kg	☼	10/21/20 09:30	10/28/20 00:05	2

Client Sample ID: SB-9(3-4)

Date Collected: 10/05/20 15:33

Date Received: 10/09/20 14:25

Lab Sample ID: 590-14035-20

Matrix: Solid

Percent Solids: 96.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	450		98		ug/Kg	☼	10/13/20 12:37	10/13/20 19:02	10
2-Methylnaphthalene	270		98		ug/Kg	☼	10/13/20 12:37	10/13/20 19:02	10
1-Methylnaphthalene	190		98		ug/Kg	☼	10/13/20 12:37	10/13/20 19:02	10
Acenaphthylene	ND		98		ug/Kg	☼	10/13/20 12:37	10/13/20 19:02	10
Acenaphthene	2900		98		ug/Kg	☼	10/13/20 12:37	10/13/20 19:02	10
Fluorene	1100		98		ug/Kg	☼	10/13/20 12:37	10/13/20 19:02	10
Phenanthrene	16000		98		ug/Kg	☼	10/13/20 12:37	10/13/20 19:02	10
Anthracene	4000		98		ug/Kg	☼	10/13/20 12:37	10/13/20 19:02	10
Fluoranthene	38000		980		ug/Kg	☼	10/13/20 12:37	10/16/20 12:07	100
Pyrene	43000		980		ug/Kg	☼	10/13/20 12:37	10/16/20 12:07	100
Benzo[a]anthracene	32000		980		ug/Kg	☼	10/13/20 12:37	10/16/20 12:07	100
Chrysene	38000		980		ug/Kg	☼	10/13/20 12:37	10/16/20 12:07	100
Benzo[b]fluoranthene	48000		980		ug/Kg	☼	10/13/20 12:37	10/16/20 12:07	100
Benzo[k]fluoranthene	17000		98		ug/Kg	☼	10/13/20 12:37	10/13/20 19:02	10
Benzo[a]pyrene	48000		980		ug/Kg	☼	10/13/20 12:37	10/16/20 12:07	100
Indeno[1,2,3-cd]pyrene	21000		98		ug/Kg	☼	10/13/20 12:37	10/13/20 19:02	10
Dibenz(a,h)anthracene	6700		98		ug/Kg	☼	10/13/20 12:37	10/13/20 19:02	10
Benzo[g,h,i]perylene	22000		98		ug/Kg	☼	10/13/20 12:37	10/13/20 19:02	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	84		43 - 120	10/13/20 12:37	10/13/20 19:02	10
Nitrobenzene-d5	93		43 - 120	10/13/20 12:37	10/16/20 12:07	100
2-Fluorobiphenyl (Surr)	87		56 - 120	10/13/20 12:37	10/13/20 19:02	10
2-Fluorobiphenyl (Surr)	95		56 - 120	10/13/20 12:37	10/16/20 12:07	100
p-Terphenyl-d14	94		74 - 136	10/13/20 12:37	10/13/20 19:02	10
p-Terphenyl-d14	94		74 - 136	10/13/20 12:37	10/16/20 12:07	100

Eurofins TestAmerica, Spokane

Client Sample Results

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014004

Job ID: 590-14035-1

Client Sample ID: SB-10(0-1)

Date Collected: 10/06/20 12:20
Date Received: 10/09/20 14:25

Lab Sample ID: 590-14035-21

Matrix: Solid
Percent Solids: 92.9

Method: 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	82	^	4.3		mg/Kg	☼	10/21/20 09:30	10/28/20 00:09	2

Client Sample ID: SB-10(5-6)

Date Collected: 10/06/20 16:10
Date Received: 10/09/20 14:25

Lab Sample ID: 590-14035-22

Matrix: Solid
Percent Solids: 93.3

Method: 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	30	^	2.6		mg/Kg	☼	10/21/20 09:30	10/26/20 13:36	1

Client Sample ID: SB-11(0-1)

Date Collected: 10/06/20 12:40
Date Received: 10/09/20 14:25

Lab Sample ID: 590-14035-23

Matrix: Solid
Percent Solids: 92.5

Method: 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	7700	^	270		mg/Kg	☼	10/21/20 09:30	10/28/20 00:12	100

Client Sample ID: SB-11(1-2)

Date Collected: 10/06/20 12:41
Date Received: 10/09/20 14:25

Lab Sample ID: 590-14035-24

Matrix: Solid
Percent Solids: 92.9

Method: 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	14		1.1		mg/Kg	☼	10/21/20 09:30	10/26/20 13:43	1

Client Sample ID: SB-12(0-1)

Date Collected: 10/05/20 15:15
Date Received: 10/09/20 14:25

Lab Sample ID: 590-14035-25

Matrix: Solid
Percent Solids: 93.0

Method: 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	7.7		0.99		mg/Kg	☼	10/21/20 09:30	10/26/20 13:47	1

Client Sample ID: SB-12(1-2)

Date Collected: 10/05/20 15:16
Date Received: 10/09/20 14:25

Lab Sample ID: 590-14035-26

Matrix: Solid
Percent Solids: 93.3

Method: 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	760	^	12		mg/Kg	☼	10/28/20 07:26	10/29/20 14:44	5

Client Sample ID: SB-12(2-3)

Date Collected: 10/05/20 15:17
Date Received: 10/09/20 14:25

Lab Sample ID: 590-14035-27

Matrix: Solid
Percent Solids: 93.1

Method: 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	570	^	13		mg/Kg	☼	10/26/20 07:59	10/26/20 17:26	5

Client Sample Results

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014004

Job ID: 590-14035-1

Client Sample ID: SB-13(1-2)

Lab Sample ID: 590-14035-28

Date Collected: 10/05/20 14:41

Matrix: Solid

Date Received: 10/09/20 14:25

Percent Solids: 96.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		100		ug/Kg	☼	10/13/20 12:37	10/13/20 19:28	10
2-Methylnaphthalene	ND		100		ug/Kg	☼	10/13/20 12:37	10/13/20 19:28	10
1-Methylnaphthalene	ND		100		ug/Kg	☼	10/13/20 12:37	10/13/20 19:28	10
Acenaphthylene	ND		100		ug/Kg	☼	10/13/20 12:37	10/13/20 19:28	10
Acenaphthene	160		100		ug/Kg	☼	10/13/20 12:37	10/13/20 19:28	10
Fluorene	ND		100		ug/Kg	☼	10/13/20 12:37	10/13/20 19:28	10
Phenanthrene	800		100		ug/Kg	☼	10/13/20 12:37	10/13/20 19:28	10
Anthracene	200		100		ug/Kg	☼	10/13/20 12:37	10/13/20 19:28	10
Fluoranthene	2100		100		ug/Kg	☼	10/13/20 12:37	10/13/20 19:28	10
Pyrene	2400		100		ug/Kg	☼	10/13/20 12:37	10/13/20 19:28	10
Benzo[a]anthracene	1900		100		ug/Kg	☼	10/13/20 12:37	10/13/20 19:28	10
Chrysene	2300		100		ug/Kg	☼	10/13/20 12:37	10/13/20 19:28	10
Benzo[b]fluoranthene	3100		100		ug/Kg	☼	10/13/20 12:37	10/13/20 19:28	10
Benzo[k]fluoranthene	1100		100		ug/Kg	☼	10/13/20 12:37	10/13/20 19:28	10
Benzo[a]pyrene	2900		100		ug/Kg	☼	10/13/20 12:37	10/13/20 19:28	10
Indeno[1,2,3-cd]pyrene	1300		100		ug/Kg	☼	10/13/20 12:37	10/13/20 19:28	10
Dibenz(a,h)anthracene	470		100		ug/Kg	☼	10/13/20 12:37	10/13/20 19:28	10
Benzo[g,h,i]perylene	1600		100		ug/Kg	☼	10/13/20 12:37	10/13/20 19:28	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	70		43 - 120	10/13/20 12:37	10/13/20 19:28	10
2-Fluorobiphenyl (Surr)	84		56 - 120	10/13/20 12:37	10/13/20 19:28	10
p-Terphenyl-d14	99		74 - 136	10/13/20 12:37	10/13/20 19:28	10

Client Sample ID: SB-13(2-3)

Lab Sample ID: 590-14035-29

Date Collected: 10/05/20 14:42

Matrix: Solid

Date Received: 10/09/20 14:25

Percent Solids: 97.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		10		ug/Kg	☼	10/13/20 12:37	10/13/20 19:54	1
2-Methylnaphthalene	ND		10		ug/Kg	☼	10/13/20 12:37	10/13/20 19:54	1
1-Methylnaphthalene	ND		10		ug/Kg	☼	10/13/20 12:37	10/13/20 19:54	1
Acenaphthylene	ND		10		ug/Kg	☼	10/13/20 12:37	10/13/20 19:54	1
Acenaphthene	21		10		ug/Kg	☼	10/13/20 12:37	10/13/20 19:54	1
Fluorene	ND		10		ug/Kg	☼	10/13/20 12:37	10/13/20 19:54	1
Phenanthrene	130		10		ug/Kg	☼	10/13/20 12:37	10/13/20 19:54	1
Anthracene	32		10		ug/Kg	☼	10/13/20 12:37	10/13/20 19:54	1
Fluoranthene	350		10		ug/Kg	☼	10/13/20 12:37	10/13/20 19:54	1
Pyrene	400		10		ug/Kg	☼	10/13/20 12:37	10/13/20 19:54	1
Benzo[a]anthracene	330		10		ug/Kg	☼	10/13/20 12:37	10/13/20 19:54	1
Chrysene	380		10		ug/Kg	☼	10/13/20 12:37	10/13/20 19:54	1
Benzo[b]fluoranthene	540		10		ug/Kg	☼	10/13/20 12:37	10/13/20 19:54	1
Benzo[k]fluoranthene	190		10		ug/Kg	☼	10/13/20 12:37	10/13/20 19:54	1
Benzo[a]pyrene	500		10		ug/Kg	☼	10/13/20 12:37	10/13/20 19:54	1
Indeno[1,2,3-cd]pyrene	230		10		ug/Kg	☼	10/13/20 12:37	10/13/20 19:54	1
Dibenz(a,h)anthracene	79		10		ug/Kg	☼	10/13/20 12:37	10/13/20 19:54	1
Benzo[g,h,i]perylene	280		10		ug/Kg	☼	10/13/20 12:37	10/13/20 19:54	1

Eurofins TestAmerica, Spokane

Client Sample Results

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014004

Job ID: 590-14035-1

Client Sample ID: SB-13(2-3)

Date Collected: 10/05/20 14:42

Date Received: 10/09/20 14:25

Lab Sample ID: 590-14035-29

Matrix: Solid

Percent Solids: 97.0

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	75		43 - 120	10/13/20 12:37	10/13/20 19:54	1
2-Fluorobiphenyl (Surr)	83		56 - 120	10/13/20 12:37	10/13/20 19:54	1
p-Terphenyl-d14	92		74 - 136	10/13/20 12:37	10/13/20 19:54	1

Client Sample ID: SB-15(0-1)

Date Collected: 10/06/20 13:15

Date Received: 10/09/20 14:25

Lab Sample ID: 590-14035-30

Matrix: Solid

Percent Solids: 91.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		110		ug/Kg	☼	10/13/20 12:37	10/13/20 20:21	10
2-Methylnaphthalene	ND		110		ug/Kg	☼	10/13/20 12:37	10/13/20 20:21	10
1-Methylnaphthalene	ND		110		ug/Kg	☼	10/13/20 12:37	10/13/20 20:21	10
Acenaphthylene	ND		110		ug/Kg	☼	10/13/20 12:37	10/13/20 20:21	10
Acenaphthene	290		110		ug/Kg	☼	10/13/20 12:37	10/13/20 20:21	10
Fluorene	ND		110		ug/Kg	☼	10/13/20 12:37	10/13/20 20:21	10
Phenanthrene	1500		110		ug/Kg	☼	10/13/20 12:37	10/13/20 20:21	10
Anthracene	300		110		ug/Kg	☼	10/13/20 12:37	10/13/20 20:21	10
Fluoranthene	4300		110		ug/Kg	☼	10/13/20 12:37	10/13/20 20:21	10
Pyrene	5500		110		ug/Kg	☼	10/13/20 12:37	10/13/20 20:21	10
Benzo[a]anthracene	3500		110		ug/Kg	☼	10/13/20 12:37	10/13/20 20:21	10
Chrysene	4700		110		ug/Kg	☼	10/13/20 12:37	10/13/20 20:21	10
Benzo[b]fluoranthene	6000		110		ug/Kg	☼	10/13/20 12:37	10/13/20 20:21	10
Benzo[k]fluoranthene	2400		110		ug/Kg	☼	10/13/20 12:37	10/13/20 20:21	10
Benzo[a]pyrene	5800		110		ug/Kg	☼	10/13/20 12:37	10/13/20 20:21	10
Indeno[1,2,3-cd]pyrene	2900		110		ug/Kg	☼	10/13/20 12:37	10/13/20 20:21	10
Dibenz(a,h)anthracene	910		110		ug/Kg	☼	10/13/20 12:37	10/13/20 20:21	10
Benzo[g,h,i]perylene	3200		110		ug/Kg	☼	10/13/20 12:37	10/13/20 20:21	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	63		43 - 120	10/13/20 12:37	10/13/20 20:21	10
2-Fluorobiphenyl (Surr)	77		56 - 120	10/13/20 12:37	10/13/20 20:21	10
p-Terphenyl-d14	82		74 - 136	10/13/20 12:37	10/13/20 20:21	10

Method: 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	13000	^	260		mg/Kg	☼	10/26/20 07:59	10/27/20 14:41	100

Client Sample ID: SB-15(1-2)

Date Collected: 10/06/20 13:16

Date Received: 10/09/20 14:25

Lab Sample ID: 590-14035-31

Matrix: Solid

Percent Solids: 95.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		10		ug/Kg	☼	10/13/20 12:37	10/13/20 20:47	1
2-Methylnaphthalene	ND		10		ug/Kg	☼	10/13/20 12:37	10/13/20 20:47	1
1-Methylnaphthalene	ND		10		ug/Kg	☼	10/13/20 12:37	10/13/20 20:47	1
Acenaphthylene	ND		10		ug/Kg	☼	10/13/20 12:37	10/13/20 20:47	1
Acenaphthene	ND		10		ug/Kg	☼	10/13/20 12:37	10/13/20 20:47	1
Fluorene	ND		10		ug/Kg	☼	10/13/20 12:37	10/13/20 20:47	1
Phenanthrene	ND		10		ug/Kg	☼	10/13/20 12:37	10/13/20 20:47	1

Eurofins TestAmerica, Spokane

Client Sample Results

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014004

Job ID: 590-14035-1

Client Sample ID: SB-15(1-2)

Lab Sample ID: 590-14035-31

Date Collected: 10/06/20 13:16

Matrix: Solid

Date Received: 10/09/20 14:25

Percent Solids: 95.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	ND		10		ug/Kg	☼	10/13/20 12:37	10/13/20 20:47	1
Fluoranthene	ND		10		ug/Kg	☼	10/13/20 12:37	10/13/20 20:47	1
Pyrene	ND		10		ug/Kg	☼	10/13/20 12:37	10/13/20 20:47	1
Benzo[a]anthracene	ND		10		ug/Kg	☼	10/13/20 12:37	10/13/20 20:47	1
Chrysene	ND		10		ug/Kg	☼	10/13/20 12:37	10/13/20 20:47	1
Benzo[b]fluoranthene	ND		10		ug/Kg	☼	10/13/20 12:37	10/13/20 20:47	1
Benzo[k]fluoranthene	ND		10		ug/Kg	☼	10/13/20 12:37	10/13/20 20:47	1
Benzo[a]pyrene	ND		10		ug/Kg	☼	10/13/20 12:37	10/13/20 20:47	1
Indeno[1,2,3-cd]pyrene	ND		10		ug/Kg	☼	10/13/20 12:37	10/13/20 20:47	1
Dibenz(a,h)anthracene	ND		10		ug/Kg	☼	10/13/20 12:37	10/13/20 20:47	1
Benzo[g,h,i]perylene	ND		10		ug/Kg	☼	10/13/20 12:37	10/13/20 20:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	70		43 - 120				10/13/20 12:37	10/13/20 20:47	1
2-Fluorobiphenyl (Surr)	78		56 - 120				10/13/20 12:37	10/13/20 20:47	1
p-Terphenyl-d14	91		74 - 136				10/13/20 12:37	10/13/20 20:47	1

Client Sample ID: SB-17(3-4)

Lab Sample ID: 590-14035-32

Date Collected: 10/05/20 13:33

Matrix: Solid

Date Received: 10/09/20 14:25

Percent Solids: 97.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		9.8		ug/Kg	☼	10/13/20 12:37	10/13/20 21:13	1
2-Methylnaphthalene	ND		9.8		ug/Kg	☼	10/13/20 12:37	10/13/20 21:13	1
1-Methylnaphthalene	ND		9.8		ug/Kg	☼	10/13/20 12:37	10/13/20 21:13	1
Acenaphthylene	ND		9.8		ug/Kg	☼	10/13/20 12:37	10/13/20 21:13	1
Acenaphthene	ND		9.8		ug/Kg	☼	10/13/20 12:37	10/13/20 21:13	1
Fluorene	ND		9.8		ug/Kg	☼	10/13/20 12:37	10/13/20 21:13	1
Phenanthrene	63		9.8		ug/Kg	☼	10/13/20 12:37	10/13/20 21:13	1
Anthracene	12		9.8		ug/Kg	☼	10/13/20 12:37	10/13/20 21:13	1
Fluoranthene	220		9.8		ug/Kg	☼	10/13/20 12:37	10/13/20 21:13	1
Pyrene	250		9.8		ug/Kg	☼	10/13/20 12:37	10/13/20 21:13	1
Benzo[a]anthracene	190		9.8		ug/Kg	☼	10/13/20 12:37	10/13/20 21:13	1
Chrysene	220		9.8		ug/Kg	☼	10/13/20 12:37	10/13/20 21:13	1
Benzo[b]fluoranthene	310		9.8		ug/Kg	☼	10/13/20 12:37	10/13/20 21:13	1
Benzo[k]fluoranthene	110		9.8		ug/Kg	☼	10/13/20 12:37	10/13/20 21:13	1
Benzo[a]pyrene	300		9.8		ug/Kg	☼	10/13/20 12:37	10/13/20 21:13	1
Indeno[1,2,3-cd]pyrene	140		9.8		ug/Kg	☼	10/13/20 12:37	10/13/20 21:13	1
Dibenz(a,h)anthracene	46		9.8		ug/Kg	☼	10/13/20 12:37	10/13/20 21:13	1
Benzo[g,h,i]perylene	170		9.8		ug/Kg	☼	10/13/20 12:37	10/13/20 21:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	70		43 - 120				10/13/20 12:37	10/13/20 21:13	1
2-Fluorobiphenyl (Surr)	78		56 - 120				10/13/20 12:37	10/13/20 21:13	1
p-Terphenyl-d14	92		74 - 136				10/13/20 12:37	10/13/20 21:13	1

Eurofins TestAmerica, Spokane

Client Sample Results

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014004

Job ID: 590-14035-1

Client Sample ID: SB-18(5-6)

Lab Sample ID: 590-14035-33

Date Collected: 10/06/20 15:00

Matrix: Solid

Date Received: 10/09/20 14:25

Percent Solids: 89.8

Method: 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	17	^	2.7		mg/Kg	☼	10/26/20 07:59	10/26/20 17:48	1

Client Sample ID: SB-18(6-7)

Lab Sample ID: 590-14035-34

Date Collected: 10/06/20 15:02

Matrix: Solid

Date Received: 10/09/20 14:25

Percent Solids: 96.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		10		ug/Kg	☼	10/13/20 12:37	10/13/20 21:39	1
2-Methylnaphthalene	ND		10		ug/Kg	☼	10/13/20 12:37	10/13/20 21:39	1
1-Methylnaphthalene	ND		10		ug/Kg	☼	10/13/20 12:37	10/13/20 21:39	1
Acenaphthylene	ND		10		ug/Kg	☼	10/13/20 12:37	10/13/20 21:39	1
Acenaphthene	ND		10		ug/Kg	☼	10/13/20 12:37	10/13/20 21:39	1
Fluorene	ND		10		ug/Kg	☼	10/13/20 12:37	10/13/20 21:39	1
Phenanthrene	ND		10		ug/Kg	☼	10/13/20 12:37	10/13/20 21:39	1
Anthracene	ND		10		ug/Kg	☼	10/13/20 12:37	10/13/20 21:39	1
Fluoranthene	12		10		ug/Kg	☼	10/13/20 12:37	10/13/20 21:39	1
Pyrene	15		10		ug/Kg	☼	10/13/20 12:37	10/13/20 21:39	1
Benzo[a]anthracene	20		10		ug/Kg	☼	10/13/20 12:37	10/13/20 21:39	1
Chrysene	26		10		ug/Kg	☼	10/13/20 12:37	10/13/20 21:39	1
Benzo[b]fluoranthene	40		10		ug/Kg	☼	10/13/20 12:37	10/13/20 21:39	1
Benzo[k]fluoranthene	17		10		ug/Kg	☼	10/13/20 12:37	10/13/20 21:39	1
Benzo[a]pyrene	39		10		ug/Kg	☼	10/13/20 12:37	10/13/20 21:39	1
Indeno[1,2,3-cd]pyrene	20		10		ug/Kg	☼	10/13/20 12:37	10/13/20 21:39	1
Dibenz(a,h)anthracene	ND		10		ug/Kg	☼	10/13/20 12:37	10/13/20 21:39	1
Benzo[g,h,i]perylene	24		10		ug/Kg	☼	10/13/20 12:37	10/13/20 21:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	65		43 - 120	10/13/20 12:37	10/13/20 21:39	1
2-Fluorobiphenyl (Surr)	73		56 - 120	10/13/20 12:37	10/13/20 21:39	1
p-Terphenyl-d14	92		74 - 136	10/13/20 12:37	10/13/20 21:39	1

Client Sample ID: SB-19(6-7)

Lab Sample ID: 590-14035-35

Date Collected: 10/06/20 14:21

Matrix: Solid

Date Received: 10/09/20 14:25

Percent Solids: 93.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		10		ug/Kg	☼	10/13/20 12:37	10/13/20 22:05	1
2-Methylnaphthalene	ND		10		ug/Kg	☼	10/13/20 12:37	10/13/20 22:05	1
1-Methylnaphthalene	ND		10		ug/Kg	☼	10/13/20 12:37	10/13/20 22:05	1
Acenaphthylene	ND		10		ug/Kg	☼	10/13/20 12:37	10/13/20 22:05	1
Acenaphthene	ND		10		ug/Kg	☼	10/13/20 12:37	10/13/20 22:05	1
Fluorene	ND		10		ug/Kg	☼	10/13/20 12:37	10/13/20 22:05	1
Phenanthrene	31		10		ug/Kg	☼	10/13/20 12:37	10/13/20 22:05	1
Anthracene	ND		10		ug/Kg	☼	10/13/20 12:37	10/13/20 22:05	1
Fluoranthene	80		10		ug/Kg	☼	10/13/20 12:37	10/13/20 22:05	1
Pyrene	79		10		ug/Kg	☼	10/13/20 12:37	10/13/20 22:05	1
Benzo[a]anthracene	65		10		ug/Kg	☼	10/13/20 12:37	10/13/20 22:05	1
Chrysene	72		10		ug/Kg	☼	10/13/20 12:37	10/13/20 22:05	1
Benzo[b]fluoranthene	110		10		ug/Kg	☼	10/13/20 12:37	10/13/20 22:05	1

Eurofins TestAmerica, Spokane

Client Sample Results

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014004

Job ID: 590-14035-1

Client Sample ID: SB-19(6-7)

Lab Sample ID: 590-14035-35

Date Collected: 10/06/20 14:21

Matrix: Solid

Date Received: 10/09/20 14:25

Percent Solids: 93.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	33		10		ug/Kg	☼	10/13/20 12:37	10/13/20 22:05	1
Benzo[a]pyrene	88		10		ug/Kg	☼	10/13/20 12:37	10/13/20 22:05	1
Indeno[1,2,3-cd]pyrene	43		10		ug/Kg	☼	10/13/20 12:37	10/13/20 22:05	1
Dibenz(a,h)anthracene	15		10		ug/Kg	☼	10/13/20 12:37	10/13/20 22:05	1
Benzo[g,h,i]perylene	51		10		ug/Kg	☼	10/13/20 12:37	10/13/20 22:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	67		43 - 120	10/13/20 12:37	10/13/20 22:05	1
2-Fluorobiphenyl (Surr)	74		56 - 120	10/13/20 12:37	10/13/20 22:05	1
p-Terphenyl-d14	89		74 - 136	10/13/20 12:37	10/13/20 22:05	1

Client Sample ID: SB-20(5-6)

Lab Sample ID: 590-14035-36

Date Collected: 10/06/20 14:35

Matrix: Solid

Date Received: 10/09/20 14:25

Percent Solids: 92.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		11		ug/Kg	☼	10/13/20 12:37	10/13/20 22:32	1
2-Methylnaphthalene	ND		11		ug/Kg	☼	10/13/20 12:37	10/13/20 22:32	1
1-Methylnaphthalene	ND		11		ug/Kg	☼	10/13/20 12:37	10/13/20 22:32	1
Acenaphthylene	ND		11		ug/Kg	☼	10/13/20 12:37	10/13/20 22:32	1
Acenaphthene	ND		11		ug/Kg	☼	10/13/20 12:37	10/13/20 22:32	1
Fluorene	ND		11		ug/Kg	☼	10/13/20 12:37	10/13/20 22:32	1
Phenanthrene	ND		11		ug/Kg	☼	10/13/20 12:37	10/13/20 22:32	1
Anthracene	ND		11		ug/Kg	☼	10/13/20 12:37	10/13/20 22:32	1
Fluoranthene	ND		11		ug/Kg	☼	10/13/20 12:37	10/13/20 22:32	1
Pyrene	ND		11		ug/Kg	☼	10/13/20 12:37	10/13/20 22:32	1
Benzo[a]anthracene	ND		11		ug/Kg	☼	10/13/20 12:37	10/13/20 22:32	1
Chrysene	ND		11		ug/Kg	☼	10/13/20 12:37	10/13/20 22:32	1
Benzo[b]fluoranthene	ND		11		ug/Kg	☼	10/13/20 12:37	10/13/20 22:32	1
Benzo[k]fluoranthene	ND		11		ug/Kg	☼	10/13/20 12:37	10/13/20 22:32	1
Benzo[a]pyrene	ND		11		ug/Kg	☼	10/13/20 12:37	10/13/20 22:32	1
Indeno[1,2,3-cd]pyrene	ND		11		ug/Kg	☼	10/13/20 12:37	10/13/20 22:32	1
Dibenz(a,h)anthracene	ND		11		ug/Kg	☼	10/13/20 12:37	10/13/20 22:32	1
Benzo[g,h,i]perylene	ND		11		ug/Kg	☼	10/13/20 12:37	10/13/20 22:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	68		43 - 120	10/13/20 12:37	10/13/20 22:32	1
2-Fluorobiphenyl (Surr)	75		56 - 120	10/13/20 12:37	10/13/20 22:32	1
p-Terphenyl-d14	96		74 - 136	10/13/20 12:37	10/13/20 22:32	1

QC Sample Results

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014004

Job ID: 590-14035-1

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

Lab Sample ID: MB 590-29300/1-A
Matrix: Solid
Analysis Batch: 29298

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 29300

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Naphthalene	ND		10		ug/Kg		10/13/20 12:37	10/13/20 14:10	1
2-Methylnaphthalene	ND		10		ug/Kg		10/13/20 12:37	10/13/20 14:10	1
1-Methylnaphthalene	ND		10		ug/Kg		10/13/20 12:37	10/13/20 14:10	1
Acenaphthylene	ND		10		ug/Kg		10/13/20 12:37	10/13/20 14:10	1
Acenaphthene	ND		10		ug/Kg		10/13/20 12:37	10/13/20 14:10	1
Fluorene	ND		10		ug/Kg		10/13/20 12:37	10/13/20 14:10	1
Phenanthrene	ND		10		ug/Kg		10/13/20 12:37	10/13/20 14:10	1
Anthracene	ND		10		ug/Kg		10/13/20 12:37	10/13/20 14:10	1
Fluoranthene	ND		10		ug/Kg		10/13/20 12:37	10/13/20 14:10	1
Pyrene	ND		10		ug/Kg		10/13/20 12:37	10/13/20 14:10	1
Benzo[a]anthracene	ND		10		ug/Kg		10/13/20 12:37	10/13/20 14:10	1
Chrysene	ND		10		ug/Kg		10/13/20 12:37	10/13/20 14:10	1
Benzo[b]fluoranthene	ND		10		ug/Kg		10/13/20 12:37	10/13/20 14:10	1
Benzo[k]fluoranthene	ND		10		ug/Kg		10/13/20 12:37	10/13/20 14:10	1
Benzo[a]pyrene	ND		10		ug/Kg		10/13/20 12:37	10/13/20 14:10	1
Indeno[1,2,3-cd]pyrene	ND		10		ug/Kg		10/13/20 12:37	10/13/20 14:10	1
Dibenz(a,h)anthracene	ND		10		ug/Kg		10/13/20 12:37	10/13/20 14:10	1
Benzo[g,h,i]perylene	ND		10		ug/Kg		10/13/20 12:37	10/13/20 14:10	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
Nitrobenzene-d5	81		43 - 120	10/13/20 12:37	10/13/20 14:10	1
2-Fluorobiphenyl (Surr)	90		56 - 120	10/13/20 12:37	10/13/20 14:10	1
p-Terphenyl-d14	103		74 - 136	10/13/20 12:37	10/13/20 14:10	1

Lab Sample ID: LCS 590-29300/2-A
Matrix: Solid
Analysis Batch: 29298

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 29300

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
Naphthalene	267	219		ug/Kg		82	39 - 120
2-Methylnaphthalene	267	215		ug/Kg		81	48 - 120
1-Methylnaphthalene	267	217		ug/Kg		81	55 - 120
Acenaphthylene	267	240		ug/Kg		90	59 - 120
Acenaphthene	267	233		ug/Kg		88	53 - 120
Fluorene	267	232		ug/Kg		87	63 - 120
Phenanthrene	267	256		ug/Kg		96	65 - 121
Anthracene	267	271		ug/Kg		102	60 - 129
Fluoranthene	267	273		ug/Kg		103	63 - 127
Pyrene	267	271		ug/Kg		102	68 - 125
Benzo[a]anthracene	267	291		ug/Kg		109	61 - 125
Chrysene	267	271		ug/Kg		102	67 - 127
Benzo[b]fluoranthene	267	263		ug/Kg		99	67 - 127
Benzo[k]fluoranthene	267	260		ug/Kg		97	63 - 127
Benzo[a]pyrene	267	268		ug/Kg		100	60 - 120
Indeno[1,2,3-cd]pyrene	267	261		ug/Kg		98	63 - 128
Dibenz(a,h)anthracene	267	258		ug/Kg		97	60 - 128
Benzo[g,h,i]perylene	267	268		ug/Kg		101	58 - 129

QC Sample Results

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014004

Job ID: 590-14035-1

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

Lab Sample ID: LCS 590-29300/2-A
Matrix: Solid
Analysis Batch: 29298

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 29300

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
Nitrobenzene-d5	77		43 - 120
2-Fluorobiphenyl (Surr)	84		56 - 120
p-Terphenyl-d14	104		74 - 136

Lab Sample ID: 590-14035-7 MS
Matrix: Solid
Analysis Batch: 29298

Client Sample ID: SB-4(2-3)
Prep Type: Total/NA
Prep Batch: 29300

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.	
	Result	Qualifier	Added	Result	Qualifier				Limits	RPD
Naphthalene	ND		275	226		ug/Kg	☼	73	39 - 120	
2-Methylnaphthalene	ND		275	226		ug/Kg	☼	82	48 - 120	
1-Methylnaphthalene	ND		275	224		ug/Kg	☼	82	55 - 120	
Acenaphthylene	ND		275	241		ug/Kg	☼	88	59 - 120	
Acenaphthene	240		275	465		ug/Kg	☼	84	53 - 120	
Fluorene	ND		275	332		ug/Kg	☼	88	63 - 120	
Phenanthrene	1200		275	1420	4	ug/Kg	☼	77	65 - 121	
Anthracene	300		275	557		ug/Kg	☼	92	60 - 129	
Fluoranthene	3100		275	3310	4	ug/Kg	☼	58	63 - 127	
Pyrene	3700		275	3680	4	ug/Kg	☼	11	68 - 125	
Benzo[a]anthracene	2600		275	2790	4	ug/Kg	☼	66	61 - 125	
Chrysene	3200		275	3330	4	ug/Kg	☼	61	67 - 127	
Benzo[b]fluoranthene	4000		275	4150	4	ug/Kg	☼	56	67 - 127	
Benzo[k]fluoranthene	1200		275	1840	4	ug/Kg	☼	232	63 - 127	
Benzo[a]pyrene	4000		275	4150	4	ug/Kg	☼	64	60 - 120	
Indeno[1,2,3-cd]pyrene	2100		275	2290	4	ug/Kg	☼	69	63 - 128	
Dibenz(a,h)anthracene	670		275	889		ug/Kg	☼	80	60 - 128	
Benzo[g,h,i]perylene	2600		275	2810	4	ug/Kg	☼	63	58 - 129	

Surrogate	MS MS		Limits
	%Recovery	Qualifier	
Nitrobenzene-d5	71		43 - 120
2-Fluorobiphenyl (Surr)	79		56 - 120
p-Terphenyl-d14	93		74 - 136

Lab Sample ID: 590-14035-7 MSD
Matrix: Solid
Analysis Batch: 29298

Client Sample ID: SB-4(2-3)
Prep Type: Total/NA
Prep Batch: 29300

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.		RPD	RPD
	Result	Qualifier	Added	Result	Qualifier				Limits	RPD	Limit	
Naphthalene	ND		273	233		ug/Kg	☼	76	39 - 120		3	35
2-Methylnaphthalene	ND		273	231		ug/Kg	☼	85	48 - 120		2	30
1-Methylnaphthalene	ND		273	241		ug/Kg	☼	88	55 - 120		7	24
Acenaphthylene	ND		273	276		ug/Kg	☼	101	59 - 120		13	20
Acenaphthene	240		273	506		ug/Kg	☼	99	53 - 120		8	17
Fluorene	ND		273	367		ug/Kg	☼	101	63 - 120		10	21
Phenanthrene	1200		273	1450	4	ug/Kg	☼	88	65 - 121		2	18
Anthracene	300		273	541		ug/Kg	☼	87	60 - 129		3	18
Fluoranthene	3100		273	3310	4	ug/Kg	☼	57	63 - 127		0	18
Pyrene	3700		273	3740	4	ug/Kg	☼	31	68 - 125		1	16

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QC Sample Results

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014004

Job ID: 590-14035-1

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

Lab Sample ID: 590-14035-7 MSD
Matrix: Solid
Analysis Batch: 29298

Client Sample ID: SB-4(2-3)
Prep Type: Total/NA
Prep Batch: 29300

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier						
Benzo[a]anthracene	2600		273	2900	4	ug/Kg	⊛	104	61 - 125	4	16
Chrysene	3200		273	3390	4	ug/Kg	⊛	83	67 - 127	2	15
Benzo[b]fluoranthene	4000		273	4490	4	ug/Kg	⊛	181	67 - 127	8	16
Benzo[k]fluoranthene	1200		273	1820	4	ug/Kg	⊛	227	63 - 127	1	16
Benzo[a]pyrene	4000		273	4300	4	ug/Kg	⊛	119	60 - 120	4	20
Indeno[1,2,3-cd]pyrene	2100		273	2120	4	ug/Kg	⊛	7	63 - 128	8	18
Dibenz(a,h)anthracene	670		273	842		ug/Kg	⊛	63	60 - 128	5	18
Benzo[g,h,i]perylene	2600		273	2480	4	ug/Kg	⊛	-58	58 - 129	13	17

Surrogate	MSD	MSD	Limits
	%Recovery	Qualifier	
Nitrobenzene-d5	75		43 - 120
2-Fluorobiphenyl (Surr)	89		56 - 120
p-Terphenyl-d14	93		74 - 136

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 590-29423/2-A
Matrix: Solid
Analysis Batch: 29482

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 29423

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Arsenic	ND		1.3		mg/Kg		10/21/20 09:29	10/26/20 11:51	1
Lead	ND	^	3.0		mg/Kg		10/21/20 09:29	10/26/20 11:51	1

Lab Sample ID: LCS 590-29423/1-A
Matrix: Solid
Analysis Batch: 29482

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 29423

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec.	Limits
		Result	Qualifier					
Arsenic	100	109		mg/Kg		109	80 - 120	
Lead	50.0	59.7	^	mg/Kg		119	80 - 120	

Lab Sample ID: MB 590-29469/2-A
Matrix: Solid
Analysis Batch: 29494

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 29469

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Lead	ND	^	3.0		mg/Kg		10/26/20 07:59	10/26/20 17:19	1

Lab Sample ID: LCS 590-29469/1-A
Matrix: Solid
Analysis Batch: 29494

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 29469

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec.	Limits
		Result	Qualifier					
Lead	50.0	59.5	^	mg/Kg		119	80 - 120	

QC Sample Results

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014004

Job ID: 590-14035-1

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

Lab Sample ID: 590-14035-A-27-C MS
Matrix: Solid
Analysis Batch: 29494

Client Sample ID: 590-14035-A-27-C MS
Prep Type: Total/NA
Prep Batch: 29469

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	440	^	51.6	362	^ 4	mg/Kg	☼	-150	75 - 125

Lab Sample ID: 590-14035-A-27-D MSD
Matrix: Solid
Analysis Batch: 29494

Client Sample ID: 590-14035-A-27-D MSD
Prep Type: Total/NA
Prep Batch: 29469

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Lead	440	^	50.2	442	^ 4	mg/Kg	☼	5	75 - 125	20	20

Lab Sample ID: 590-14035-A-27-B DU
Matrix: Solid
Analysis Batch: 29494

Client Sample ID: 590-14035-A-27-B DU
Prep Type: Total/NA
Prep Batch: 29469

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Lead	440	^	205	^ F3	mg/Kg	☼	73	20

Lab Sample ID: MB 590-29507/2-A
Matrix: Solid
Analysis Batch: 29525

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 29507

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND	^	3.0		mg/Kg		10/28/20 07:26	10/29/20 14:36	1

Lab Sample ID: LCS 590-29507/1-A
Matrix: Solid
Analysis Batch: 29525

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 29507

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	50.0	57.5	^	mg/Kg		115	80 - 120

Lab Sample ID: 590-14035-26 MS
Matrix: Solid
Analysis Batch: 29525

Client Sample ID: SB-12(1-2)
Prep Type: Total/NA
Prep Batch: 29507

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	760	^	53.0	560	^ 4	mg/Kg	☼	-377	75 - 125

Lab Sample ID: 590-14035-26 MSD
Matrix: Solid
Analysis Batch: 29525

Client Sample ID: SB-12(1-2)
Prep Type: Total/NA
Prep Batch: 29507

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Lead	760	^	53.6	614	^ 4	mg/Kg	☼	-272	75 - 125	9	20

Lab Sample ID: 590-14035-26 DU
Matrix: Solid
Analysis Batch: 29525

Client Sample ID: SB-12(1-2)
Prep Type: Total/NA
Prep Batch: 29507

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Lead	760	^	496	^ F3	mg/Kg	☼	42	20

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Lab Chronicle

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014004

Job ID: 590-14035-1

Client Sample ID: SB-1(1-2)

Date Collected: 10/06/20 09:51

Date Received: 10/09/20 14:25

Lab Sample ID: 590-14035-1

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			29290	10/13/20 08:49	AMB	TAL SPK

Client Sample ID: SB-1(1-2)

Date Collected: 10/06/20 09:51

Date Received: 10/09/20 14:25

Lab Sample ID: 590-14035-1

Matrix: Solid

Percent Solids: 82.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			1.26 g	50 mL	29423	10/21/20 09:30	AMB	TAL SPK
Total/NA	Analysis	6010D		1			29482	10/26/20 12:32	JSP	TAL SPK

Client Sample ID: SB-1(3-4)

Date Collected: 10/06/20 09:53

Date Received: 10/09/20 14:25

Lab Sample ID: 590-14035-2

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			29290	10/13/20 08:49	AMB	TAL SPK

Client Sample ID: SB-1(3-4)

Date Collected: 10/06/20 09:53

Date Received: 10/09/20 14:25

Lab Sample ID: 590-14035-2

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			1.36 g	50 mL	29423	10/21/20 09:30	AMB	TAL SPK
Total/NA	Analysis	6010D		1			29482	10/26/20 12:36	JSP	TAL SPK

Client Sample ID: SB-2(1-2)

Date Collected: 10/06/20 10:01

Date Received: 10/09/20 14:25

Lab Sample ID: 590-14035-3

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			29290	10/13/20 08:49	AMB	TAL SPK

Client Sample ID: SB-2(1-2)

Date Collected: 10/06/20 10:01

Date Received: 10/09/20 14:25

Lab Sample ID: 590-14035-3

Matrix: Solid

Percent Solids: 93.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			1.22 g	50 mL	29423	10/21/20 09:30	AMB	TAL SPK
Total/NA	Analysis	6010D		1			29482	10/26/20 12:40	JSP	TAL SPK

Client Sample ID: SB-3(0-1)

Date Collected: 10/06/20 10:30

Date Received: 10/09/20 14:25

Lab Sample ID: 590-14035-4

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			29290	10/13/20 08:49	AMB	TAL SPK

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Lab Chronicle

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014004

Job ID: 590-14035-1

Client Sample ID: SB-3(0-1)

Lab Sample ID: 590-14035-4

Date Collected: 10/06/20 10:30

Matrix: Solid

Date Received: 10/09/20 14:25

Percent Solids: 93.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			1.21 g	50 mL	29423	10/21/20 09:30	AMB	TAL SPK
Total/NA	Analysis	6010D		100			29505	10/27/20 23:51	JSP	TAL SPK

Client Sample ID: SB-3(2-3)

Lab Sample ID: 590-14035-5

Date Collected: 10/06/20 10:32

Matrix: Solid

Date Received: 10/09/20 14:25

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			29290	10/13/20 08:49	AMB	TAL SPK

Client Sample ID: SB-3(2-3)

Lab Sample ID: 590-14035-5

Date Collected: 10/06/20 10:32

Matrix: Solid

Date Received: 10/09/20 14:25

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	29423	10/21/20 09:30	AMB	TAL SPK
Total/NA	Analysis	6010D		1			29482	10/26/20 12:47	JSP	TAL SPK

Client Sample ID: SB-3(4-5)

Lab Sample ID: 590-14035-6

Date Collected: 10/06/20 10:34

Matrix: Solid

Date Received: 10/09/20 14:25

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			29290	10/13/20 08:49	AMB	TAL SPK

Client Sample ID: SB-3(4-5)

Lab Sample ID: 590-14035-6

Date Collected: 10/06/20 10:34

Matrix: Solid

Date Received: 10/09/20 14:25

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	3050B			1.45 g	50 mL	29423	10/21/20 09:30	AMB	TAL SPK
Total/NA	Analysis	6010D		1			29482	10/26/20 12:51	JSP	TAL SPK

Client Sample ID: SB-4(2-3)

Lab Sample ID: 590-14035-7

Date Collected: 10/06/20 09:02

Matrix: Solid

Date Received: 10/09/20 14:25

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			29290	10/13/20 08:49	AMB	TAL SPK

Lab Chronicle

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014004

Job ID: 590-14035-1

Client Sample ID: SB-4(2-3)

Date Collected: 10/06/20 09:02

Date Received: 10/09/20 14:25

Lab Sample ID: 590-14035-7

Matrix: Solid

Percent Solids: 93.9

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	29300	10/13/20 12:37	NMI	TAL SPK
Total/NA	Analysis	8270E SIM		10			29298	10/13/20 15:28	NMI	TAL SPK

Client Sample ID: SB-5(0-1)

Date Collected: 10/05/20 16:30

Date Received: 10/09/20 14:25

Lab Sample ID: 590-14035-8

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			29290	10/13/20 08:49	AMB	TAL SPK

Client Sample ID: SB-5(0-1)

Date Collected: 10/05/20 16:30

Date Received: 10/09/20 14:25

Lab Sample ID: 590-14035-8

Matrix: Solid

Percent Solids: 91.2

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	10 mL	29300	10/13/20 12:37	NMI	TAL SPK
Total/NA	Analysis	8270E SIM		100			29298	10/13/20 16:50	NMI	TAL SPK

Client Sample ID: SB-5(1-2)

Date Collected: 10/05/20 16:31

Date Received: 10/09/20 14:25

Lab Sample ID: 590-14035-9

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			29290	10/13/20 08:49	AMB	TAL SPK

Client Sample ID: SB-5(1-2)

Date Collected: 10/05/20 16:31

Date Received: 10/09/20 14:25

Lab Sample ID: 590-14035-9

Matrix: Solid

Percent Solids: 86.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			1.29 g	50 mL	29423	10/21/20 09:30	AMB	TAL SPK
Total/NA	Analysis	6010D		1			29482	10/26/20 12:54	JSP	TAL SPK

Client Sample ID: SB-5(2-3)

Date Collected: 10/05/20 16:32

Date Received: 10/09/20 14:25

Lab Sample ID: 590-14035-10

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			29290	10/13/20 08:49	AMB	TAL SPK

Lab Chronicle

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014004

Job ID: 590-14035-1

Client Sample ID: SB-5(2-3)

Date Collected: 10/05/20 16:32

Date Received: 10/09/20 14:25

Lab Sample ID: 590-14035-10

Matrix: Solid

Percent Solids: 89.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			15.27 g	2 mL	29300	10/13/20 12:37	NMI	TAL SPK
Total/NA	Analysis	8270E SIM		10			29298	10/13/20 17:17	NMI	TAL SPK
Total/NA	Prep	3550C			15.27 g	2 mL	29300	10/13/20 12:37	NMI	TAL SPK
Total/NA	Analysis	8270E SIM		100			29358	10/16/20 11:41	NMI	TAL SPK

Client Sample ID: SB-5(6-7)

Date Collected: 10/06/20 15:55

Date Received: 10/09/20 14:25

Lab Sample ID: 590-14035-11

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			29290	10/13/20 08:49	AMB	TAL SPK

Client Sample ID: SB-5(6-7)

Date Collected: 10/06/20 15:55

Date Received: 10/09/20 14:25

Lab Sample ID: 590-14035-11

Matrix: Solid

Percent Solids: 95.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			15.02 g	2 mL	29300	10/13/20 12:37	NMI	TAL SPK
Total/NA	Analysis	8270E SIM		1			29298	10/13/20 17:43	NMI	TAL SPK

Client Sample ID: SB-6(0-1)

Date Collected: 10/06/20 10:50

Date Received: 10/09/20 14:25

Lab Sample ID: 590-14035-12

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			29290	10/13/20 08:49	AMB	TAL SPK

Client Sample ID: SB-6(0-1)

Date Collected: 10/06/20 10:50

Date Received: 10/09/20 14:25

Lab Sample ID: 590-14035-12

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			1.22 g	50 mL	29423	10/21/20 09:30	AMB	TAL SPK
Total/NA	Analysis	6010D		1			29482	10/26/20 12:58	JSP	TAL SPK

Client Sample ID: SB-6(1-2)

Date Collected: 10/06/20 10:51

Date Received: 10/09/20 14:25

Lab Sample ID: 590-14035-13

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			29290	10/13/20 08:49	AMB	TAL SPK

Lab Chronicle

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014004

Job ID: 590-14035-1

Client Sample ID: SB-6(1-2)

Lab Sample ID: 590-14035-13

Date Collected: 10/06/20 10:51

Matrix: Solid

Date Received: 10/09/20 14:25

Percent Solids: 91.1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			1.53 g	50 mL	29423	10/21/20 09:30	AMB	TAL SPK
Total/NA	Analysis	6010D		10			29505	10/27/20 23:55	JSP	TAL SPK

Client Sample ID: SB-6(3-4)

Lab Sample ID: 590-14035-14

Date Collected: 10/06/20 10:53

Matrix: Solid

Date Received: 10/09/20 14:25

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			29290	10/13/20 08:49	AMB	TAL SPK

Client Sample ID: SB-6(3-4)

Lab Sample ID: 590-14035-14

Date Collected: 10/06/20 10:53

Matrix: Solid

Date Received: 10/09/20 14:25

Percent Solids: 92.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			1.26 g	50 mL	29423	10/21/20 09:30	AMB	TAL SPK
Total/NA	Analysis	6010D		1			29482	10/26/20 13:06	JSP	TAL SPK

Client Sample ID: SB-7(0-1)

Lab Sample ID: 590-14035-15

Date Collected: 10/06/20 11:15

Matrix: Solid

Date Received: 10/09/20 14:25

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			29290	10/13/20 08:49	AMB	TAL SPK

Client Sample ID: SB-7(0-1)

Lab Sample ID: 590-14035-15

Date Collected: 10/06/20 11:15

Matrix: Solid

Date Received: 10/09/20 14:25

Percent Solids: 93.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			1.36 g	50 mL	29423	10/21/20 09:30	AMB	TAL SPK
Total/NA	Analysis	6010D		2			29505	10/27/20 23:58	JSP	TAL SPK

Client Sample ID: SB-7(2-3)

Lab Sample ID: 590-14035-16

Date Collected: 10/06/20 11:17

Matrix: Solid

Date Received: 10/09/20 14:25

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			29290	10/13/20 08:49	AMB	TAL SPK

Lab Chronicle

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014004

Job ID: 590-14035-1

Client Sample ID: SB-7(2-3)

Date Collected: 10/06/20 11:17

Date Received: 10/09/20 14:25

Lab Sample ID: 590-14035-16

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	3550C			15.85 g	2 mL	29300	10/13/20 12:37	NMI	TAL SPK
Total/NA	Analysis	8270E SIM		1			29298	10/13/20 18:09	NMI	TAL SPK

Client Sample ID: SB-8(0-1)

Date Collected: 10/05/20 15:50

Date Received: 10/09/20 14:25

Lab Sample ID: 590-14035-17

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			29290	10/13/20 08:49	AMB	TAL SPK

Client Sample ID: SB-8(0-1)

Date Collected: 10/05/20 15:50

Date Received: 10/09/20 14:25

Lab Sample ID: 590-14035-17

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	3550C			15.04 g	10 mL	29300	10/13/20 12:37	NMI	TAL SPK
Total/NA	Analysis	8270E SIM		100			29298	10/13/20 18:35	NMI	TAL SPK

Client Sample ID: SB-9(1-2)

Date Collected: 10/05/20 15:31

Date Received: 10/09/20 14:25

Lab Sample ID: 590-14035-18

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			29290	10/13/20 08:49	AMB	TAL SPK

Client Sample ID: SB-9(1-2)

Date Collected: 10/05/20 15:31

Date Received: 10/09/20 14:25

Lab Sample ID: 590-14035-18

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			1.40 g	50 mL	29423	10/21/20 09:30	AMB	TAL SPK
Total/NA	Analysis	6010D		5			29505	10/28/20 00:02	JSP	TAL SPK

Client Sample ID: SB-9(2-3)

Date Collected: 10/05/20 15:32

Date Received: 10/09/20 14:25

Lab Sample ID: 590-14035-19

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			29290	10/13/20 08:49	AMB	TAL SPK

Lab Chronicle

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014004

Job ID: 590-14035-1

Client Sample ID: SB-9(2-3)

Lab Sample ID: 590-14035-19

Date Collected: 10/05/20 15:32

Matrix: Solid

Date Received: 10/09/20 14:25

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			1.33 g	50 mL	29423	10/21/20 09:30	AMB	TAL SPK
Total/NA	Analysis	6010D		2			29505	10/28/20 00:05	JSP	TAL SPK

Client Sample ID: SB-9(3-4)

Lab Sample ID: 590-14035-20

Date Collected: 10/05/20 15:33

Matrix: Solid

Date Received: 10/09/20 14:25

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			29290	10/13/20 08:49	AMB	TAL SPK

Client Sample ID: SB-9(3-4)

Lab Sample ID: 590-14035-20

Date Collected: 10/05/20 15:33

Matrix: Solid

Date Received: 10/09/20 14:25

Percent Solids: 96.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			15.74 g	2 mL	29300	10/13/20 12:37	NMI	TAL SPK
Total/NA	Analysis	8270E SIM		10			29298	10/13/20 19:02	NMI	TAL SPK
Total/NA	Prep	3550C			15.74 g	2 mL	29300	10/13/20 12:37	NMI	TAL SPK
Total/NA	Analysis	8270E SIM		100			29358	10/16/20 12:07	NMI	TAL SPK

Client Sample ID: SB-10(0-1)

Lab Sample ID: 590-14035-21

Date Collected: 10/06/20 12:20

Matrix: Solid

Date Received: 10/09/20 14:25

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			29290	10/13/20 08:49	AMB	TAL SPK

Client Sample ID: SB-10(0-1)

Lab Sample ID: 590-14035-21

Date Collected: 10/06/20 12:20

Matrix: Solid

Date Received: 10/09/20 14:25

Percent Solids: 92.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			1.49 g	50 mL	29423	10/21/20 09:30	AMB	TAL SPK
Total/NA	Analysis	6010D		2			29505	10/28/20 00:09	JSP	TAL SPK

Client Sample ID: SB-10(5-6)

Lab Sample ID: 590-14035-22

Date Collected: 10/06/20 16:10

Matrix: Solid

Date Received: 10/09/20 14:25

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			29290	10/13/20 08:49	AMB	TAL SPK

Lab Chronicle

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014004

Job ID: 590-14035-1

Client Sample ID: SB-10(5-6)

Date Collected: 10/06/20 16:10

Date Received: 10/09/20 14:25

Lab Sample ID: 590-14035-22

Matrix: Solid

Percent Solids: 93.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			1.23 g	50 mL	29423	10/21/20 09:30	AMB	TAL SPK
Total/NA	Analysis	6010D		1			29482	10/26/20 13:36	JSP	TAL SPK

Client Sample ID: SB-11(0-1)

Date Collected: 10/06/20 12:40

Date Received: 10/09/20 14:25

Lab Sample ID: 590-14035-23

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			29290	10/13/20 08:49	AMB	TAL SPK

Client Sample ID: SB-11(0-1)

Date Collected: 10/06/20 12:40

Date Received: 10/09/20 14:25

Lab Sample ID: 590-14035-23

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	3050B			1.21 g	50 mL	29423	10/21/20 09:30	AMB	TAL SPK
Total/NA	Analysis	6010D		100			29505	10/28/20 00:12	JSP	TAL SPK

Client Sample ID: SB-11(1-2)

Date Collected: 10/06/20 12:41

Date Received: 10/09/20 14:25

Lab Sample ID: 590-14035-24

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			29290	10/13/20 08:49	AMB	TAL SPK

Client Sample ID: SB-11(1-2)

Date Collected: 10/06/20 12:41

Date Received: 10/09/20 14:25

Lab Sample ID: 590-14035-24

Matrix: Solid

Percent Solids: 92.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			1.25 g	50 mL	29423	10/21/20 09:30	AMB	TAL SPK
Total/NA	Analysis	6010D		1			29482	10/26/20 13:43	JSP	TAL SPK

Client Sample ID: SB-12(0-1)

Date Collected: 10/05/20 15:15

Date Received: 10/09/20 14:25

Lab Sample ID: 590-14035-25

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			29290	10/13/20 08:49	AMB	TAL SPK

Lab Chronicle

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014004

Job ID: 590-14035-1

Client Sample ID: SB-12(0-1)

Date Collected: 10/05/20 15:15

Date Received: 10/09/20 14:25

Lab Sample ID: 590-14035-25

Matrix: Solid

Percent Solids: 93.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			1.36 g	50 mL	29423	10/21/20 09:30	AMB	TAL SPK
Total/NA	Analysis	6010D		1			29482	10/26/20 13:47	JSP	TAL SPK

Client Sample ID: SB-12(1-2)

Date Collected: 10/05/20 15:16

Date Received: 10/09/20 14:25

Lab Sample ID: 590-14035-26

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			29290	10/13/20 08:49	AMB	TAL SPK

Client Sample ID: SB-12(1-2)

Date Collected: 10/05/20 15:16

Date Received: 10/09/20 14:25

Lab Sample ID: 590-14035-26

Matrix: Solid

Percent Solids: 93.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			1.36 g	50 mL	29507	10/28/20 07:26	AMB	TAL SPK
Total/NA	Analysis	6010D		5			29525	10/29/20 14:44	JSP	TAL SPK

Client Sample ID: SB-12(2-3)

Date Collected: 10/05/20 15:17

Date Received: 10/09/20 14:25

Lab Sample ID: 590-14035-27

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			29290	10/13/20 08:49	AMB	TAL SPK

Client Sample ID: SB-12(2-3)

Date Collected: 10/05/20 15:17

Date Received: 10/09/20 14:25

Lab Sample ID: 590-14035-27

Matrix: Solid

Percent Solids: 93.1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			1.25 g	50 mL	29469	10/26/20 07:59	AMB	TAL SPK
Total/NA	Analysis	6010D		5	10 mL	10 mL	29494	10/26/20 17:26	JSP	TAL SPK

Client Sample ID: SB-13(1-2)

Date Collected: 10/05/20 14:41

Date Received: 10/09/20 14:25

Lab Sample ID: 590-14035-28

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			29290	10/13/20 08:49	AMB	TAL SPK

Lab Chronicle

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014004

Job ID: 590-14035-1

Client Sample ID: SB-13(1-2)

Lab Sample ID: 590-14035-28

Date Collected: 10/05/20 14:41

Matrix: Solid

Date Received: 10/09/20 14:25

Percent Solids: 96.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			15.40 g	2 mL	29300	10/13/20 12:37	NMI	TAL SPK
Total/NA	Analysis	8270E SIM		10			29298	10/13/20 19:28	NMI	TAL SPK

Client Sample ID: SB-13(2-3)

Lab Sample ID: 590-14035-29

Date Collected: 10/05/20 14:42

Matrix: Solid

Date Received: 10/09/20 14:25

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			29290	10/13/20 08:49	AMB	TAL SPK

Client Sample ID: SB-13(2-3)

Lab Sample ID: 590-14035-29

Date Collected: 10/05/20 14:42

Matrix: Solid

Date Received: 10/09/20 14:25

Percent Solids: 97.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			15.21 g	2 mL	29300	10/13/20 12:37	NMI	TAL SPK
Total/NA	Analysis	8270E SIM		1			29298	10/13/20 19:54	NMI	TAL SPK

Client Sample ID: SB-15(0-1)

Lab Sample ID: 590-14035-30

Date Collected: 10/06/20 13:15

Matrix: Solid

Date Received: 10/09/20 14:25

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			29290	10/13/20 08:49	AMB	TAL SPK

Client Sample ID: SB-15(0-1)

Lab Sample ID: 590-14035-30

Date Collected: 10/06/20 13:15

Matrix: Solid

Date Received: 10/09/20 14:25

Percent Solids: 91.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			15.61 g	2 mL	29300	10/13/20 12:37	NMI	TAL SPK
Total/NA	Analysis	8270E SIM		10			29298	10/13/20 20:21	NMI	TAL SPK
Total/NA	Prep	3050B			1.28 g	50 mL	29469	10/26/20 07:59	AMB	TAL SPK
Total/NA	Analysis	6010D		100			29505	10/27/20 14:41	JSP	TAL SPK

Client Sample ID: SB-15(1-2)

Lab Sample ID: 590-14035-31

Date Collected: 10/06/20 13:16

Matrix: Solid

Date Received: 10/09/20 14:25

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			29290	10/13/20 08:49	AMB	TAL SPK

Lab Chronicle

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014004

Job ID: 590-14035-1

Client Sample ID: SB-15(1-2)

Lab Sample ID: 590-14035-31

Date Collected: 10/06/20 13:16

Matrix: Solid

Date Received: 10/09/20 14:25

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			15.14 g	2 mL	29300	10/13/20 12:37	NMI	TAL SPK
Total/NA	Analysis	8270E SIM		1			29298	10/13/20 20:47	NMI	TAL SPK

Client Sample ID: SB-17(3-4)

Lab Sample ID: 590-14035-32

Date Collected: 10/05/20 13:33

Matrix: Solid

Date Received: 10/09/20 14:25

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			29290	10/13/20 08:49	AMB	TAL SPK

Client Sample ID: SB-17(3-4)

Lab Sample ID: 590-14035-32

Date Collected: 10/05/20 13:33

Matrix: Solid

Date Received: 10/09/20 14:25

Percent Solids: 97.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			15.63 g	2 mL	29300	10/13/20 12:37	NMI	TAL SPK
Total/NA	Analysis	8270E SIM		1			29298	10/13/20 21:13	NMI	TAL SPK

Client Sample ID: SB-18(5-6)

Lab Sample ID: 590-14035-33

Date Collected: 10/06/20 15:00

Matrix: Solid

Date Received: 10/09/20 14:25

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			29290	10/13/20 08:49	AMB	TAL SPK

Client Sample ID: SB-18(5-6)

Lab Sample ID: 590-14035-33

Date Collected: 10/06/20 15:00

Matrix: Solid

Date Received: 10/09/20 14:25

Percent Solids: 89.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			1.22 g	50 mL	29469	10/26/20 07:59	AMB	TAL SPK
Total/NA	Analysis	6010D		1			29494	10/26/20 17:48	JSP	TAL SPK

Client Sample ID: SB-18(6-7)

Lab Sample ID: 590-14035-34

Date Collected: 10/06/20 15:02

Matrix: Solid

Date Received: 10/09/20 14:25

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			29290	10/13/20 08:49	AMB	TAL SPK

Lab Chronicle

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014004

Job ID: 590-14035-1

Client Sample ID: SB-18(6-7)

Date Collected: 10/06/20 15:02

Date Received: 10/09/20 14:25

Lab Sample ID: 590-14035-34

Matrix: Solid

Percent Solids: 96.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			15.48 g	2 mL	29300	10/13/20 12:37	NMI	TAL SPK
Total/NA	Analysis	8270E SIM		1			29298	10/13/20 21:39	NMI	TAL SPK

Client Sample ID: SB-19(6-7)

Date Collected: 10/06/20 14:21

Date Received: 10/09/20 14:25

Lab Sample ID: 590-14035-35

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			29290	10/13/20 08:49	AMB	TAL SPK

Client Sample ID: SB-19(6-7)

Date Collected: 10/06/20 14:21

Date Received: 10/09/20 14:25

Lab Sample ID: 590-14035-35

Matrix: Solid

Percent Solids: 93.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			15.70 g	2 mL	29300	10/13/20 12:37	NMI	TAL SPK
Total/NA	Analysis	8270E SIM		1			29298	10/13/20 22:05	NMI	TAL SPK

Client Sample ID: SB-20(5-6)

Date Collected: 10/06/20 14:35

Date Received: 10/09/20 14:25

Lab Sample ID: 590-14035-36

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			29290	10/13/20 08:49	AMB	TAL SPK

Client Sample ID: SB-20(5-6)

Date Collected: 10/06/20 14:35

Date Received: 10/09/20 14:25

Lab Sample ID: 590-14035-36

Matrix: Solid

Percent Solids: 92.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			15.05 g	2 mL	29300	10/13/20 12:37	NMI	TAL SPK
Total/NA	Analysis	8270E SIM		1			29298	10/13/20 22:32	NMI	TAL SPK

Laboratory References:

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

Accreditation/Certification Summary

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014004

Job ID: 590-14035-1

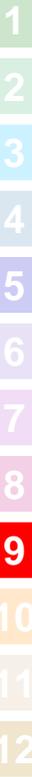
Laboratory: Eurofins TestAmerica, Spokane

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

<u>Authority</u>	<u>Program</u>	<u>Identification Number</u>	<u>Expiration Date</u>
Washington	State	C569	01-06-21

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

<u>Analysis Method</u>	<u>Prep Method</u>	<u>Matrix</u>	<u>Analyte</u>
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids



Method Summary

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014004

Job ID: 590-14035-1

Method	Method Description	Protocol	Laboratory
8270E SIM	Semivolatile Organic Compounds (GC/MS SIM)	SW846	TAL SPK
6010D	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 = Eurofins TestAmerica, Spokane, 11922 East 1st Ave, Spokane, WA 99206, TEL (509)924-9200



Sample Custody Record

Samples Shipped to: FEST ANSWER



Hart Crowsner, Inc.
3131 Elliott Avenue, Suite 600
Seattle, Washington 98121
Office: 206.324.9530 • Fax 206.328.5581

PAGE 1 OF 3

REQUESTED ANALYSIS

JOB 1500H004 LAB NUMBER _____
PROJECT NAME CVSD - Gen Club Assessment
HART CROWSER CONTACT J. HANEY
SAMPLED BY: K. HODGESTON

PAHS
LEAD
ARSENIC

NO. OF CONTAINERS
OBSERVATIONS/COMMENTS/
COMPOSITING INSTRUCTIONS

LAB NO.	SAMPLE ID	DESCRIPTION	DATE	TIME	MATRIX	PAHS	LEAD	ARSENIC	NO. OF CONTAINERS
	SB-1(1-2)		10/6/20	0951	Soil	X			1
	SB-1(3-4)			1001		X			1
	SB-2(1-2)			1030		X			1
	SB-3(0-1)			1032		X			1
	SB-3(2-3)			091034		X			1
	SB-3(4-5)			0902		X			1
	SB-4(2-3)		10/5/20	1030		X			1
	SB-5(0-1)			1031		X			1
	SB-5(1-2)			1032		X			1
	SB-5(2-3)			1555		X			1
	SB-5(6-7)		10/6/20	1030		X			1
	SB-6(0-1)								1



RELINQUISHED BY: [Signature] DATE: 10/9/20
SIGNATURE: [Signature] TIME: _____
PRINT NAME: Walter Brown
COMPANY: _____

RECEIVED BY: [Signature] DATE: 10/9/20
SIGNATURE: [Signature] TIME: _____
PRINT NAME: [Name]
COMPANY: _____

SPECIAL SHIPMENT HANDLING OR STORAGE REQUIREMENTS:
RETURN SAMPLES TO HC AFTER ANALYSIS

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

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

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 _____

Login Sample Receipt Checklist

Client: Hart Crowser, Inc.

Job Number: 590-14035-1

Login Number: 14035
List Number: 1
Creator: O'Toole, Maria C

List Source: Eurofins TestAmerica, Spokane

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	
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.



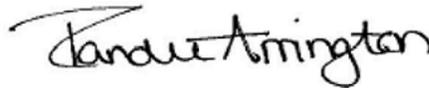
ANALYTICAL REPORT

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

Laboratory Job ID: 590-14035-2
Client Project/Site: CVSD/15014004

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

Attn: John Haney



*Authorized for release by:
11/13/2020 9:31:03 AM*

Randee Arrington, Project Manager II
(509)924-9200
Randee.Arrington@Eurofinset.com

LINKS

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www.eurofinsus.com/Env

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.



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Case Narrative

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014004

Job ID: 590-14035-2

Job ID: 590-14035-2

Laboratory: Eurofins TestAmerica, Spokane

Narrative

Receipt

The samples were received on 10/9/2020 2:25 PM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 2.8° C.

Receipt Exceptions

The following samples were activated for TCLP Lead analysis by the client on 11/03/20: SB-2(1-2) (590-14035-3), SB-3(0-1) (590-14035-4), SB-6(1-2) (590-14035-13), SB-9(1-2) (590-14035-18), SB-9(2-3) (590-14035-19), SB-10(0-1) (590-14035-21), SB-11(0-1) (590-14035-23), SB-12(1-2) (590-14035-26), SB-12(2-3) (590-14035-27) and SB-15(0-1) (590-14035-30). This analysis was not originally requested on the chain-of-custody (COC).

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.

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Sample Summary

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014004

Job ID: 590-14035-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
590-14035-3	SB-2(1-2)	Solid	10/06/20 10:01	10/09/20 14:25	
590-14035-4	SB-3(0-1)	Solid	10/06/20 10:30	10/09/20 14:25	
590-14035-13	SB-6(1-2)	Solid	10/06/20 10:51	10/09/20 14:25	
590-14035-18	SB-9(1-2)	Solid	10/05/20 15:31	10/09/20 14:25	
590-14035-19	SB-9(2-3)	Solid	10/05/20 15:32	10/09/20 14:25	
590-14035-21	SB-10(0-1)	Solid	10/06/20 12:20	10/09/20 14:25	
590-14035-23	SB-11(0-1)	Solid	10/06/20 12:40	10/09/20 14:25	
590-14035-26	SB-12(1-2)	Solid	10/05/20 15:16	10/09/20 14:25	
590-14035-27	SB-12(2-3)	Solid	10/05/20 15:17	10/09/20 14:25	
590-14035-30	SB-15(0-1)	Solid	10/06/20 13:15	10/09/20 14:25	

Definitions/Glossary

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014004

Job ID: 590-14035-2

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
CFU	Colony Forming Unit
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)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
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)
TNTC	Too Numerous To Count

Client Sample Results

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014004

Job ID: 590-14035-2

Client Sample ID: SB-2(1-2)

Date Collected: 10/06/20 10:01

Date Received: 10/09/20 14:25

Lab Sample ID: 590-14035-3

Matrix: Solid

Method: 6010D - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.21		0.060		mg/L		11/11/20 10:10	11/12/20 07:57	1

Client Sample ID: SB-3(0-1)

Date Collected: 10/06/20 10:30

Date Received: 10/09/20 14:25

Lab Sample ID: 590-14035-4

Matrix: Solid

Method: 6010D - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	27		0.30		mg/L		11/11/20 10:10	11/12/20 09:01	5

Client Sample ID: SB-6(1-2)

Date Collected: 10/06/20 10:51

Date Received: 10/09/20 14:25

Lab Sample ID: 590-14035-13

Matrix: Solid

Method: 6010D - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	1.9		0.060		mg/L		11/11/20 10:10	11/12/20 08:05	1

Client Sample ID: SB-9(1-2)

Date Collected: 10/05/20 15:31

Date Received: 10/09/20 14:25

Lab Sample ID: 590-14035-18

Matrix: Solid

Method: 6010D - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.39		0.060		mg/L		11/11/20 10:10	11/12/20 08:09	1

Client Sample ID: SB-9(2-3)

Date Collected: 10/05/20 15:32

Date Received: 10/09/20 14:25

Lab Sample ID: 590-14035-19

Matrix: Solid

Method: 6010D - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.46		0.060		mg/L		11/11/20 10:10	11/12/20 08:12	1

Client Sample ID: SB-10(0-1)

Date Collected: 10/06/20 12:20

Date Received: 10/09/20 14:25

Lab Sample ID: 590-14035-21

Matrix: Solid

Method: 6010D - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.12		0.060		mg/L		11/11/20 10:10	11/12/20 08:16	1

Client Sample ID: SB-11(0-1)

Date Collected: 10/06/20 12:40

Date Received: 10/09/20 14:25

Lab Sample ID: 590-14035-23

Matrix: Solid

Method: 6010D - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	30		0.30		mg/L		11/11/20 10:10	11/12/20 09:04	5

Client Sample Results

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014004

Job ID: 590-14035-2

Client Sample ID: SB-12(1-2)

Lab Sample ID: 590-14035-26

Date Collected: 10/05/20 15:16

Matrix: Solid

Date Received: 10/09/20 14:25

Method: 6010D - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.46		0.060		mg/L		11/11/20 10:10	11/12/20 08:24	1

Client Sample ID: SB-12(2-3)

Lab Sample ID: 590-14035-27

Date Collected: 10/05/20 15:17

Matrix: Solid

Date Received: 10/09/20 14:25

Method: 6010D - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.21		0.060		mg/L		11/11/20 10:10	11/12/20 08:28	1

Client Sample ID: SB-15(0-1)

Lab Sample ID: 590-14035-30

Date Collected: 10/06/20 13:15

Matrix: Solid

Date Received: 10/09/20 14:25

Method: 6010D - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	17		0.30		mg/L		11/11/20 10:10	11/12/20 09:08	5

QC Sample Results

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014004

Job ID: 590-14035-2

Method: 6010D - Metals (ICP)

Lab Sample ID: LCS 590-29657/1-A
Matrix: Solid
Analysis Batch: 29671

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 29657

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	1.00	1.08		mg/L		108	80 - 120

Lab Sample ID: LB 590-29650/1-B
Matrix: Solid
Analysis Batch: 29671

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 29657

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.060		mg/L		11/11/20 10:10	11/12/20 07:13	1

Lab Chronicle

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014004

Job ID: 590-14035-2

Client Sample ID: SB-2(1-2)

Date Collected: 10/06/20 10:01

Date Received: 10/09/20 14:25

Lab Sample ID: 590-14035-3

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			95.16 g	1915.73 mL	29650	11/10/20 15:13	AMB	TAL SPK
TCLP	Prep	3010A			50 mL	50 mL	29657	11/11/20 10:10	AMB	TAL SPK
TCLP	Analysis	6010D		1			29671	11/12/20 07:57	JSP	TAL SPK

Client Sample ID: SB-3(0-1)

Date Collected: 10/06/20 10:30

Date Received: 10/09/20 14:25

Lab Sample ID: 590-14035-4

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			90.09 g	1810.41 mL	29650	11/10/20 15:13	AMB	TAL SPK
TCLP	Prep	3010A			50 mL	50 mL	29657	11/11/20 10:10	AMB	TAL SPK
TCLP	Analysis	6010D		5			29671	11/12/20 09:01	JSP	TAL SPK

Client Sample ID: SB-6(1-2)

Date Collected: 10/06/20 10:51

Date Received: 10/09/20 14:25

Lab Sample ID: 590-14035-13

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			90.04 g	1805.25 mL	29650	11/10/20 15:13	AMB	TAL SPK
TCLP	Prep	3010A			50 mL	50 mL	29657	11/11/20 10:10	AMB	TAL SPK
TCLP	Analysis	6010D		1			29671	11/12/20 08:05	JSP	TAL SPK

Client Sample ID: SB-9(1-2)

Date Collected: 10/05/20 15:31

Date Received: 10/09/20 14:25

Lab Sample ID: 590-14035-18

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			100.06 g	2000.27 mL	29650	11/10/20 15:13	AMB	TAL SPK
TCLP	Prep	3010A			50 mL	50 mL	29657	11/11/20 10:10	AMB	TAL SPK
TCLP	Analysis	6010D		1			29671	11/12/20 08:09	JSP	TAL SPK

Client Sample ID: SB-9(2-3)

Date Collected: 10/05/20 15:32

Date Received: 10/09/20 14:25

Lab Sample ID: 590-14035-19

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			90.02 g	1805.30 mL	29650	11/10/20 15:13	AMB	TAL SPK
TCLP	Prep	3010A			50 mL	50 mL	29657	11/11/20 10:10	AMB	TAL SPK
TCLP	Analysis	6010D		1			29671	11/12/20 08:12	JSP	TAL SPK

Lab Chronicle

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014004

Job ID: 590-14035-2

Client Sample ID: SB-10(0-1)

Lab Sample ID: 590-14035-21

Date Collected: 10/06/20 12:20

Matrix: Solid

Date Received: 10/09/20 14:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			95.13 g	1924.64 mL	29650	11/10/20 15:13	AMB	TAL SPK
TCLP	Prep	3010A			50 mL	50 mL	29657	11/11/20 10:10	AMB	TAL SPK
TCLP	Analysis	6010D		1			29671	11/12/20 08:16	JSP	TAL SPK

Client Sample ID: SB-11(0-1)

Lab Sample ID: 590-14035-23

Date Collected: 10/06/20 12:40

Matrix: Solid

Date Received: 10/09/20 14:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			95.40 g	1908.14 mL	29650	11/10/20 15:13	AMB	TAL SPK
TCLP	Prep	3010A			50 mL	50 mL	29657	11/11/20 10:10	AMB	TAL SPK
TCLP	Analysis	6010D		5			29671	11/12/20 09:04	JSP	TAL SPK

Client Sample ID: SB-12(1-2)

Lab Sample ID: 590-14035-26

Date Collected: 10/05/20 15:16

Matrix: Solid

Date Received: 10/09/20 14:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			83.06 g	1664.28 mL	29650	11/10/20 15:13	AMB	TAL SPK
TCLP	Prep	3010A			50 mL	50 mL	29657	11/11/20 10:10	AMB	TAL SPK
TCLP	Analysis	6010D		1			29671	11/12/20 08:24	JSP	TAL SPK

Client Sample ID: SB-12(2-3)

Lab Sample ID: 590-14035-27

Date Collected: 10/05/20 15:17

Matrix: Solid

Date Received: 10/09/20 14:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			100.12 g	2001.20 mL	29650	11/10/20 15:13	AMB	TAL SPK
TCLP	Prep	3010A			50 mL	50 mL	29657	11/11/20 10:10	AMB	TAL SPK
TCLP	Analysis	6010D		1			29671	11/12/20 08:28	JSP	TAL SPK

Client Sample ID: SB-15(0-1)

Lab Sample ID: 590-14035-30

Date Collected: 10/06/20 13:15

Matrix: Solid

Date Received: 10/09/20 14:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			65.04 g	1300.20 mL	29650	11/10/20 15:13	AMB	TAL SPK
TCLP	Prep	3010A			50 mL	50 mL	29657	11/11/20 10:10	AMB	TAL SPK
TCLP	Analysis	6010D		5			29671	11/12/20 09:08	JSP	TAL SPK

Laboratory References:

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

Accreditation/Certification Summary

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014004

Job ID: 590-14035-2

Laboratory: Eurofins TestAmerica, Spokane

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Washington	State	C569	01-06-21

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

Method Summary

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014004

Job ID: 590-14035-2

Method	Method Description	Protocol	Laboratory
6010D	Metals (ICP)	SW846	TAL SPK
1311	TCLP Extraction	SW846	TAL SPK
3010A	Preparation, Total Metals	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 = Eurofins TestAmerica, Spokane, 11922 East 1st Ave, Spokane, WA 99206, TEL (509)924-9200



Sample Custody Record

Samples Shipped to: Test AWSERCK



HART CROWSNER

PAGE 1 OF 3

Hart Crowsner, Inc.
3131 Elliott Avenue, Suite 600
Seattle, Washington 98121
Office: 206.324.9530 • Fax 206.328.5581

REQUESTED ANALYSIS

PAHS
LEAD
ARSENIC

NO. OF CONTAINERS

OBSERVATIONS/COMMENTS/
COMPOSITING INSTRUCTIONS

JOB 1500H004 LAB NUMBER _____
PROJECT NAME CVSD - Gen Club Assessment
HART CROWSNER CONTACT J. HANEY
SAMPLED BY: K. HODGESTON

LAB NO.	SAMPLE ID	DESCRIPTION	DATE	TIME	MATRIX	RECEIVED BY	DATE	TIME	SPECIAL SHIPMENT HANDLING OR STORAGE REQUIREMENTS:	TOTAL NUMBER OF CONTAINERS
	SB-1(1-2)		10/6/20	0951	Soil	WSD	10/9/20	10912		1
	SB-1(3-4)			1001		WSD	10/9/20	10912		1
	SB-2(1-2)			1030		WSD	10/9/20	10912		1
	SB-3(0-1)			1032		WSD	10/9/20	10912		1
	SB-3(2-3)			0902		WSD	10/9/20	10912		1
	SB-3(4-5)			1030		WSD	10/9/20	10912		1
	SB-4(2-3)			1031		WSD	10/9/20	10912		1
	SB-5(0-1)			1032		WSD	10/9/20	10912		1
	SB-5(1-2)			1032		WSD	10/9/20	10912		1
	SB-5(2-3)			1032		WSD	10/9/20	10912		1
	SB-5(6-7)			1032		WSD	10/9/20	10912		1
	SB-6(0-1)			1032		WSD	10/9/20	10912		1



COOLER NO.: _____ STORAGE LOCATION: _____
SPECIAL SHIPMENT HANDLING OR STORAGE REQUIREMENTS:
RETURN SAMPLES TO HC AFTER ANALYSIS

SAMPLE RECEIPT INFORMATION
CUSTODY SEALS: YES NO N/A
GOOD CONDITION: YES NO
TEMPERATURE: 2.8
SHIPMENT METHOD: HAND COURIER
TURNAROUND TIME: 24 HOURS 1 WEEK STANDARD 48 HOURS 72 HOURS OTHER _____

Sample Custody Record

Samples Shipped to: TESS AMERICIA



Page 3 of 3
 3131 Elliott Avenue, Suite 600
 Seattle, Washington 98121
 Office: 206.324.9530 • Fax 206.328.5581

JOB 50014004 LAB NUMBER _____
 PROJECT NAME CVSD
 HART CROWSER CONTACT J. HANEY
 SAMPLED BY: K. HUDDESTON

REQUESTED ANALYSIS	
<u>PAHS</u>	
<u>LEAD</u>	
<u>ARSENIC</u>	

NO. OF CONTAINERS _____
 OBSERVATIONS/COMMENTS/
 COMPOSITING INSTRUCTIONS

LAB NO.	SAMPLE ID	DESCRIPTION	DATE	TIME	MATRIX					
	SB-12(0-1)		10/5/20	1515	Soil	X				
	SB-12(1-2)			1516		X				
	SB-12(2-3)			1517		X				
	SB-13(1-2)			1441		X				
	SB-13(2-3)			1442		X				
	SB-15(0-1)		10/6/20	1315		X				
	SB-15(1-2)			1316		X				
	SB-17(3-4)		10/5/20	1333		X				
	SB-18(5-6)		10/16/20	1500		X				
	SB-18(6-7)		10/16/20	1502		X				
	SB-19(6-7)			1421		X				
	SB-20(5-6)		10/16/20	1435		X				

RELINQUISHED BY: [Signature] DATE: 10/9/20 TIME: _____
 RECEIVED BY: [Signature] DATE: 10/9/20 TIME: _____
 SIGNATURE: _____ DATE: _____
 PRINT NAME: _____ TIME: _____
 COMPANY: _____

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

COOLER NO.: _____ STORAGE LOCATION: _____
 SPECIAL SHIPMENT HANDLING OR STORAGE REQUIREMENTS: _____
 TOTAL NUMBER OF CONTAINERS: _____

SAMPLE RECEIPT INFORMATION
 CUSTODY SEALS: YES NO N/A
 GOOD CONDITION: YES NO
 TEMPERATURE: 28
 SHIPMENT METHOD: HAND OVERNIGHT
 COURIER

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

See Lab Work Order No. _____ for Other Contract Requirements

White to Lab Yellow to Project Manager Pink to Sample Custodian

Login Sample Receipt Checklist

Client: Hart Crowser, Inc.

Job Number: 590-14035-2

Login Number: 14035
List Number: 1
Creator: O'Toole, Maria C

List Source: Eurofins TestAmerica, Spokane

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	
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.



ANALYTICAL REPORT

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

Laboratory Job ID: 590-14402-1
Client Project/Site: CVSD/15014004

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

Attn: John Haney



*Authorized for release by:
12/30/2020 4:25:03 PM*

Randee Arrington, Project Manager II
(509)924-9200
Randee.Arrington@Eurofinset.com

LINKS

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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.



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Case Narrative

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014004

Job ID: 590-14402-1

Job ID: 590-14402-1

Laboratory: Eurofins TestAmerica, Spokane

Narrative

Receipt

The samples were received on 12/22/2020 12:00 PM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 2.4° C.

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.

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Sample Summary

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014004

Job ID: 590-14402-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
590-14402-1	TP-81 (0-1')	Solid	12/21/20 11:20	12/22/20 12:00	
590-14402-2	TP-79 (0-1')	Solid	12/21/20 10:55	12/22/20 12:00	
590-14402-3	TP-77 (0-1')	Solid	12/21/20 10:30	12/22/20 12:00	
590-14402-4	TP-75 (0-1')	Solid	12/21/20 09:55	12/22/20 12:00	
590-14402-5	TP-76 (0-1')	Solid	12/21/20 08:30	12/22/20 12:00	
590-14402-6	TP-78 (0-1')	Solid	12/21/20 07:40	12/22/20 12:00	
590-14402-7	TP-80 (0-1')	Solid	12/22/20 08:10	12/22/20 12:00	
590-14402-8	TP-82 (0-1')	Solid	12/22/20 09:00	12/22/20 12:00	
590-14402-9	TP-83 (0-1')	Solid	12/22/20 09:30	12/22/20 12:00	
590-14402-10	TP-84 (0-1')	Solid	12/22/20 10:05	12/22/20 12:00	
590-14402-11	TP-85 (0-1')	Solid	12/22/20 10:35	12/22/20 12:00	

Definitions/Glossary

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014004

Job ID: 590-14402-1

Qualifiers

Metals

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control 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
CFU	Colony Forming Unit
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)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
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)
TNTC	Too Numerous To Count

Client Sample Results

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014004

Job ID: 590-14402-1

Client Sample ID: TP-81 (0-1')

Lab Sample ID: 590-14402-1

Date Collected: 12/21/20 11:20

Matrix: Solid

Date Received: 12/22/20 12:00

Percent Solids: 86.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		11		ug/Kg	☼	12/29/20 11:10	12/29/20 21:37	1
2-Methylnaphthalene	ND		11		ug/Kg	☼	12/29/20 11:10	12/29/20 21:37	1
1-Methylnaphthalene	ND		11		ug/Kg	☼	12/29/20 11:10	12/29/20 21:37	1
Acenaphthylene	ND		11		ug/Kg	☼	12/29/20 11:10	12/29/20 21:37	1
Acenaphthene	ND		11		ug/Kg	☼	12/29/20 11:10	12/29/20 21:37	1
Fluorene	ND		11		ug/Kg	☼	12/29/20 11:10	12/29/20 21:37	1
Phenanthrene	12		11		ug/Kg	☼	12/29/20 11:10	12/29/20 21:37	1
Anthracene	ND		11		ug/Kg	☼	12/29/20 11:10	12/29/20 21:37	1
Fluoranthene	29		11		ug/Kg	☼	12/29/20 11:10	12/29/20 21:37	1
Pyrene	34		11		ug/Kg	☼	12/29/20 11:10	12/29/20 21:37	1
Benzo[a]anthracene	25		11		ug/Kg	☼	12/29/20 11:10	12/29/20 21:37	1
Chrysene	32		11		ug/Kg	☼	12/29/20 11:10	12/29/20 21:37	1
Benzo[b]fluoranthene	41		11		ug/Kg	☼	12/29/20 11:10	12/29/20 21:37	1
Benzo[k]fluoranthene	17		11		ug/Kg	☼	12/29/20 11:10	12/29/20 21:37	1
Benzo[a]pyrene	38		11		ug/Kg	☼	12/29/20 11:10	12/29/20 21:37	1
Indeno[1,2,3-cd]pyrene	22		11		ug/Kg	☼	12/29/20 11:10	12/29/20 21:37	1
Dibenz(a,h)anthracene	ND		11		ug/Kg	☼	12/29/20 11:10	12/29/20 21:37	1
Benzo[g,h,i]perylene	27		11		ug/Kg	☼	12/29/20 11:10	12/29/20 21:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	72		33 - 120	12/29/20 11:10	12/29/20 21:37	1
2-Fluorobiphenyl (Surr)	80		47 - 120	12/29/20 11:10	12/29/20 21:37	1
p-Terphenyl-d14	116		74 - 120	12/29/20 11:10	12/29/20 21:37	1

Method: 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	120	F1	2.7		mg/Kg	☼	12/24/20 09:39	12/28/20 13:25	1

Client Sample ID: TP-79 (0-1')

Lab Sample ID: 590-14402-2

Date Collected: 12/21/20 10:55

Matrix: Solid

Date Received: 12/22/20 12:00

Percent Solids: 85.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		12		ug/Kg	☼	12/29/20 11:10	12/29/20 22:56	1
2-Methylnaphthalene	ND		12		ug/Kg	☼	12/29/20 11:10	12/29/20 22:56	1
1-Methylnaphthalene	ND		12		ug/Kg	☼	12/29/20 11:10	12/29/20 22:56	1
Acenaphthylene	ND		12		ug/Kg	☼	12/29/20 11:10	12/29/20 22:56	1
Acenaphthene	ND		12		ug/Kg	☼	12/29/20 11:10	12/29/20 22:56	1
Fluorene	ND		12		ug/Kg	☼	12/29/20 11:10	12/29/20 22:56	1
Phenanthrene	ND		12		ug/Kg	☼	12/29/20 11:10	12/29/20 22:56	1
Anthracene	ND		12		ug/Kg	☼	12/29/20 11:10	12/29/20 22:56	1
Fluoranthene	33		12		ug/Kg	☼	12/29/20 11:10	12/29/20 22:56	1
Pyrene	45		12		ug/Kg	☼	12/29/20 11:10	12/29/20 22:56	1
Benzo[a]anthracene	29		12		ug/Kg	☼	12/29/20 11:10	12/29/20 22:56	1
Chrysene	39		12		ug/Kg	☼	12/29/20 11:10	12/29/20 22:56	1
Benzo[b]fluoranthene	47		12		ug/Kg	☼	12/29/20 11:10	12/29/20 22:56	1
Benzo[k]fluoranthene	19		12		ug/Kg	☼	12/29/20 11:10	12/29/20 22:56	1
Benzo[a]pyrene	44		12		ug/Kg	☼	12/29/20 11:10	12/29/20 22:56	1
Indeno[1,2,3-cd]pyrene	26		12		ug/Kg	☼	12/29/20 11:10	12/29/20 22:56	1

Eurofins TestAmerica, Spokane

Client Sample Results

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014004

Job ID: 590-14402-1

Client Sample ID: TP-79 (0-1')

Lab Sample ID: 590-14402-2

Date Collected: 12/21/20 10:55

Matrix: Solid

Date Received: 12/22/20 12:00

Percent Solids: 85.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibenz(a,h)anthracene	ND		12		ug/Kg	☼	12/29/20 11:10	12/29/20 22:56	1
Benzo[g,h,i]perylene	34		12		ug/Kg	☼	12/29/20 11:10	12/29/20 22:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	76		33 - 120				12/29/20 11:10	12/29/20 22:56	1
2-Fluorobiphenyl (Surr)	87		47 - 120				12/29/20 11:10	12/29/20 22:56	1
p-Terphenyl-d14	111		74 - 120				12/29/20 11:10	12/29/20 22:56	1

Method: 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	57		2.6		mg/Kg	☼	12/24/20 09:39	12/29/20 12:14	1

Client Sample ID: TP-77 (0-1')

Lab Sample ID: 590-14402-3

Date Collected: 12/21/20 10:30

Matrix: Solid

Date Received: 12/22/20 12:00

Percent Solids: 85.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		11		ug/Kg	☼	12/29/20 11:10	12/30/20 10:51	1
2-Methylnaphthalene	ND		11		ug/Kg	☼	12/29/20 11:10	12/30/20 10:51	1
1-Methylnaphthalene	ND		11		ug/Kg	☼	12/29/20 11:10	12/30/20 10:51	1
Acenaphthylene	ND		11		ug/Kg	☼	12/29/20 11:10	12/30/20 10:51	1
Acenaphthene	ND		11		ug/Kg	☼	12/29/20 11:10	12/30/20 10:51	1
Fluorene	ND		11		ug/Kg	☼	12/29/20 11:10	12/30/20 10:51	1
Phenanthrene	ND		11		ug/Kg	☼	12/29/20 11:10	12/30/20 10:51	1
Anthracene	ND		11		ug/Kg	☼	12/29/20 11:10	12/30/20 10:51	1
Fluoranthene	20		11		ug/Kg	☼	12/29/20 11:10	12/30/20 10:51	1
Pyrene	23		11		ug/Kg	☼	12/29/20 11:10	12/30/20 10:51	1
Benzo[a]anthracene	17		11		ug/Kg	☼	12/29/20 11:10	12/30/20 10:51	1
Chrysene	22		11		ug/Kg	☼	12/29/20 11:10	12/30/20 10:51	1
Benzo[b]fluoranthene	27		11		ug/Kg	☼	12/29/20 11:10	12/30/20 10:51	1
Benzo[k]fluoranthene	14		11		ug/Kg	☼	12/29/20 11:10	12/30/20 10:51	1
Benzo[a]pyrene	26		11		ug/Kg	☼	12/29/20 11:10	12/30/20 10:51	1
Indeno[1,2,3-cd]pyrene	15		11		ug/Kg	☼	12/29/20 11:10	12/30/20 10:51	1
Dibenz(a,h)anthracene	ND		11		ug/Kg	☼	12/29/20 11:10	12/30/20 10:51	1
Benzo[g,h,i]perylene	19		11		ug/Kg	☼	12/29/20 11:10	12/30/20 10:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	75		33 - 120				12/29/20 11:10	12/30/20 10:51	1
2-Fluorobiphenyl (Surr)	92		47 - 120				12/29/20 11:10	12/30/20 10:51	1
p-Terphenyl-d14	114		74 - 120				12/29/20 11:10	12/30/20 10:51	1

Method: 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	48		2.4		mg/Kg	☼	12/24/20 09:39	12/29/20 12:18	1

Client Sample Results

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014004

Job ID: 590-14402-1

Client Sample ID: TP-75 (0-1')

Lab Sample ID: 590-14402-4

Date Collected: 12/21/20 09:55

Matrix: Solid

Date Received: 12/22/20 12:00

Percent Solids: 81.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		12		ug/Kg	☼	12/29/20 11:10	12/30/20 11:17	1
2-Methylnaphthalene	ND		12		ug/Kg	☼	12/29/20 11:10	12/30/20 11:17	1
1-Methylnaphthalene	ND		12		ug/Kg	☼	12/29/20 11:10	12/30/20 11:17	1
Acenaphthylene	ND		12		ug/Kg	☼	12/29/20 11:10	12/30/20 11:17	1
Acenaphthene	ND		12		ug/Kg	☼	12/29/20 11:10	12/30/20 11:17	1
Fluorene	ND		12		ug/Kg	☼	12/29/20 11:10	12/30/20 11:17	1
Phenanthrene	ND		12		ug/Kg	☼	12/29/20 11:10	12/30/20 11:17	1
Anthracene	ND		12		ug/Kg	☼	12/29/20 11:10	12/30/20 11:17	1
Fluoranthene	16		12		ug/Kg	☼	12/29/20 11:10	12/30/20 11:17	1
Pyrene	19		12		ug/Kg	☼	12/29/20 11:10	12/30/20 11:17	1
Benzo[a]anthracene	14		12		ug/Kg	☼	12/29/20 11:10	12/30/20 11:17	1
Chrysene	17		12		ug/Kg	☼	12/29/20 11:10	12/30/20 11:17	1
Benzo[b]fluoranthene	24		12		ug/Kg	☼	12/29/20 11:10	12/30/20 11:17	1
Benzo[k]fluoranthene	ND		12		ug/Kg	☼	12/29/20 11:10	12/30/20 11:17	1
Benzo[a]pyrene	21		12		ug/Kg	☼	12/29/20 11:10	12/30/20 11:17	1
Indeno[1,2,3-cd]pyrene	14		12		ug/Kg	☼	12/29/20 11:10	12/30/20 11:17	1
Dibenz(a,h)anthracene	ND		12		ug/Kg	☼	12/29/20 11:10	12/30/20 11:17	1
Benzo[g,h,i]perylene	16		12		ug/Kg	☼	12/29/20 11:10	12/30/20 11:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	69		33 - 120	12/29/20 11:10	12/30/20 11:17	1
2-Fluorobiphenyl (Surr)	83		47 - 120	12/29/20 11:10	12/30/20 11:17	1
p-Terphenyl-d14	112		74 - 120	12/29/20 11:10	12/30/20 11:17	1

Method: 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	740		14		mg/Kg	☼	12/24/20 09:39	12/29/20 13:05	5

Client Sample ID: TP-76 (0-1')

Lab Sample ID: 590-14402-5

Date Collected: 12/21/20 08:30

Matrix: Solid

Date Received: 12/22/20 12:00

Percent Solids: 87.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		11		ug/Kg	☼	12/29/20 11:10	12/30/20 11:44	1
2-Methylnaphthalene	ND		11		ug/Kg	☼	12/29/20 11:10	12/30/20 11:44	1
1-Methylnaphthalene	ND		11		ug/Kg	☼	12/29/20 11:10	12/30/20 11:44	1
Acenaphthylene	ND		11		ug/Kg	☼	12/29/20 11:10	12/30/20 11:44	1
Acenaphthene	ND		11		ug/Kg	☼	12/29/20 11:10	12/30/20 11:44	1
Fluorene	ND		11		ug/Kg	☼	12/29/20 11:10	12/30/20 11:44	1
Phenanthrene	ND		11		ug/Kg	☼	12/29/20 11:10	12/30/20 11:44	1
Anthracene	ND		11		ug/Kg	☼	12/29/20 11:10	12/30/20 11:44	1
Fluoranthene	ND		11		ug/Kg	☼	12/29/20 11:10	12/30/20 11:44	1
Pyrene	ND		11		ug/Kg	☼	12/29/20 11:10	12/30/20 11:44	1
Benzo[a]anthracene	ND		11		ug/Kg	☼	12/29/20 11:10	12/30/20 11:44	1
Chrysene	ND		11		ug/Kg	☼	12/29/20 11:10	12/30/20 11:44	1
Benzo[b]fluoranthene	11		11		ug/Kg	☼	12/29/20 11:10	12/30/20 11:44	1
Benzo[k]fluoranthene	ND		11		ug/Kg	☼	12/29/20 11:10	12/30/20 11:44	1
Benzo[a]pyrene	ND		11		ug/Kg	☼	12/29/20 11:10	12/30/20 11:44	1
Indeno[1,2,3-cd]pyrene	ND		11		ug/Kg	☼	12/29/20 11:10	12/30/20 11:44	1

Eurofins TestAmerica, Spokane

Client Sample Results

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014004

Job ID: 590-14402-1

Client Sample ID: TP-76 (0-1')

Lab Sample ID: 590-14402-5

Date Collected: 12/21/20 08:30

Matrix: Solid

Date Received: 12/22/20 12:00

Percent Solids: 87.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibenz(a,h)anthracene	ND		11		ug/Kg	☼	12/29/20 11:10	12/30/20 11:44	1
Benzo[g,h,i]perylene	ND		11		ug/Kg	☼	12/29/20 11:10	12/30/20 11:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	73		33 - 120				12/29/20 11:10	12/30/20 11:44	1
2-Fluorobiphenyl (Surr)	86		47 - 120				12/29/20 11:10	12/30/20 11:44	1
p-Terphenyl-d14	115		74 - 120				12/29/20 11:10	12/30/20 11:44	1

Method: 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	50		2.4		mg/Kg	☼	12/24/20 09:39	12/29/20 12:26	1

Client Sample ID: TP-78 (0-1')

Lab Sample ID: 590-14402-6

Date Collected: 12/21/20 07:40

Matrix: Solid

Date Received: 12/22/20 12:00

Percent Solids: 87.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		11		ug/Kg	☼	12/29/20 11:10	12/30/20 12:10	1
2-Methylnaphthalene	ND		11		ug/Kg	☼	12/29/20 11:10	12/30/20 12:10	1
1-Methylnaphthalene	ND		11		ug/Kg	☼	12/29/20 11:10	12/30/20 12:10	1
Acenaphthylene	ND		11		ug/Kg	☼	12/29/20 11:10	12/30/20 12:10	1
Acenaphthene	22		11		ug/Kg	☼	12/29/20 11:10	12/30/20 12:10	1
Fluorene	ND		11		ug/Kg	☼	12/29/20 11:10	12/30/20 12:10	1
Phenanthrene	140		11		ug/Kg	☼	12/29/20 11:10	12/30/20 12:10	1
Anthracene	24		11		ug/Kg	☼	12/29/20 11:10	12/30/20 12:10	1
Fluoranthene	380		11		ug/Kg	☼	12/29/20 11:10	12/30/20 12:10	1
Pyrene	490		11		ug/Kg	☼	12/29/20 11:10	12/30/20 12:10	1
Benzo[a]anthracene	310		11		ug/Kg	☼	12/29/20 11:10	12/30/20 12:10	1
Chrysene	440		11		ug/Kg	☼	12/29/20 11:10	12/30/20 12:10	1
Benzo[b]fluoranthene	550		11		ug/Kg	☼	12/29/20 11:10	12/30/20 12:10	1
Benzo[k]fluoranthene	190		11		ug/Kg	☼	12/29/20 11:10	12/30/20 12:10	1
Benzo[a]pyrene	510		11		ug/Kg	☼	12/29/20 11:10	12/30/20 12:10	1
Indeno[1,2,3-cd]pyrene	290		11		ug/Kg	☼	12/29/20 11:10	12/30/20 12:10	1
Dibenz(a,h)anthracene	99		11		ug/Kg	☼	12/29/20 11:10	12/30/20 12:10	1
Benzo[g,h,i]perylene	340		11		ug/Kg	☼	12/29/20 11:10	12/30/20 12:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	72		33 - 120				12/29/20 11:10	12/30/20 12:10	1
2-Fluorobiphenyl (Surr)	88		47 - 120				12/29/20 11:10	12/30/20 12:10	1
p-Terphenyl-d14	110		74 - 120				12/29/20 11:10	12/30/20 12:10	1

Method: 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	74		2.5		mg/Kg	☼	12/24/20 09:39	12/29/20 12:30	1

Client Sample Results

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014004

Job ID: 590-14402-1

Client Sample ID: TP-80 (0-1')

Lab Sample ID: 590-14402-7

Date Collected: 12/22/20 08:10

Matrix: Solid

Date Received: 12/22/20 12:00

Percent Solids: 56.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		17		ug/Kg	☼	12/29/20 11:10	12/30/20 12:33	1
2-Methylnaphthalene	ND		17		ug/Kg	☼	12/29/20 11:10	12/30/20 12:33	1
1-Methylnaphthalene	ND		17		ug/Kg	☼	12/29/20 11:10	12/30/20 12:33	1
Acenaphthylene	ND		17		ug/Kg	☼	12/29/20 11:10	12/30/20 12:33	1
Acenaphthene	ND		17		ug/Kg	☼	12/29/20 11:10	12/30/20 12:33	1
Fluorene	ND		17		ug/Kg	☼	12/29/20 11:10	12/30/20 12:33	1
Phenanthrene	60		17		ug/Kg	☼	12/29/20 11:10	12/30/20 12:33	1
Anthracene	ND		17		ug/Kg	☼	12/29/20 11:10	12/30/20 12:33	1
Fluoranthene	160		17		ug/Kg	☼	12/29/20 11:10	12/30/20 12:33	1
Pyrene	200		17		ug/Kg	☼	12/29/20 11:10	12/30/20 12:33	1
Benzo[a]anthracene	140		17		ug/Kg	☼	12/29/20 11:10	12/30/20 12:33	1
Chrysene	170		17		ug/Kg	☼	12/29/20 11:10	12/30/20 12:33	1
Benzo[b]fluoranthene	230		17		ug/Kg	☼	12/29/20 11:10	12/30/20 12:33	1
Benzo[k]fluoranthene	26		17		ug/Kg	☼	12/29/20 11:10	12/30/20 12:33	1
Benzo[a]pyrene	140		17		ug/Kg	☼	12/29/20 11:10	12/30/20 12:33	1
Indeno[1,2,3-cd]pyrene	120		17		ug/Kg	☼	12/29/20 11:10	12/30/20 12:33	1
Dibenz(a,h)anthracene	42		17		ug/Kg	☼	12/29/20 11:10	12/30/20 12:33	1
Benzo[g,h,i]perylene	140		17		ug/Kg	☼	12/29/20 11:10	12/30/20 12:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	62		33 - 120	12/29/20 11:10	12/30/20 12:33	1
2-Fluorobiphenyl (Surr)	80		47 - 120	12/29/20 11:10	12/30/20 12:33	1
p-Terphenyl-d14	105		74 - 120	12/29/20 11:10	12/30/20 12:33	1

Method: 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	95		2.5		mg/Kg	☼	12/24/20 09:39	12/29/20 12:34	1

Client Sample ID: TP-82 (0-1')

Lab Sample ID: 590-14402-8

Date Collected: 12/22/20 09:00

Matrix: Solid

Date Received: 12/22/20 12:00

Percent Solids: 78.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		120		ug/Kg	☼	12/29/20 11:10	12/30/20 12:59	10
2-Methylnaphthalene	ND		120		ug/Kg	☼	12/29/20 11:10	12/30/20 12:59	10
1-Methylnaphthalene	ND		120		ug/Kg	☼	12/29/20 11:10	12/30/20 12:59	10
Acenaphthylene	ND		120		ug/Kg	☼	12/29/20 11:10	12/30/20 12:59	10
Acenaphthene	1300		120		ug/Kg	☼	12/29/20 11:10	12/30/20 12:59	10
Fluorene	330		120		ug/Kg	☼	12/29/20 11:10	12/30/20 12:59	10
Phenanthrene	4300		120		ug/Kg	☼	12/29/20 11:10	12/30/20 12:59	10
Anthracene	1100		120		ug/Kg	☼	12/29/20 11:10	12/30/20 12:59	10
Fluoranthene	10000		120		ug/Kg	☼	12/29/20 11:10	12/30/20 12:59	10
Pyrene	10000		120		ug/Kg	☼	12/29/20 11:10	12/30/20 12:59	10
Benzo[a]anthracene	8800		120		ug/Kg	☼	12/29/20 11:10	12/30/20 12:59	10
Chrysene	8300		120		ug/Kg	☼	12/29/20 11:10	12/30/20 12:59	10
Benzo[b]fluoranthene	11000		120		ug/Kg	☼	12/29/20 11:10	12/30/20 12:59	10
Benzo[k]fluoranthene	3900		120		ug/Kg	☼	12/29/20 11:10	12/30/20 12:59	10
Benzo[a]pyrene	9700		120		ug/Kg	☼	12/29/20 11:10	12/30/20 12:59	10
Indeno[1,2,3-cd]pyrene	4800		120		ug/Kg	☼	12/29/20 11:10	12/30/20 12:59	10

Eurofins TestAmerica, Spokane

Client Sample Results

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014004

Job ID: 590-14402-1

Client Sample ID: TP-82 (0-1')

Lab Sample ID: 590-14402-8

Date Collected: 12/22/20 09:00

Matrix: Solid

Date Received: 12/22/20 12:00

Percent Solids: 78.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibenz(a,h)anthracene	1700		120		ug/Kg	☼	12/29/20 11:10	12/30/20 12:59	10
Benzo[g,h,i]perylene	5200		120		ug/Kg	☼	12/29/20 11:10	12/30/20 12:59	10
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	71		33 - 120				12/29/20 11:10	12/30/20 12:59	10
2-Fluorobiphenyl (Surr)	79		47 - 120				12/29/20 11:10	12/30/20 12:59	10
p-Terphenyl-d14	103		74 - 120				12/29/20 11:10	12/30/20 12:59	10

Method: 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	62		2.2		mg/Kg	☼	12/24/20 09:39	12/29/20 12:38	1

Client Sample ID: TP-83 (0-1')

Lab Sample ID: 590-14402-9

Date Collected: 12/22/20 09:30

Matrix: Solid

Date Received: 12/22/20 12:00

Percent Solids: 86.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		11		ug/Kg	☼	12/29/20 11:10	12/30/20 13:25	1
2-Methylnaphthalene	ND		11		ug/Kg	☼	12/29/20 11:10	12/30/20 13:25	1
1-Methylnaphthalene	ND		11		ug/Kg	☼	12/29/20 11:10	12/30/20 13:25	1
Acenaphthylene	ND		11		ug/Kg	☼	12/29/20 11:10	12/30/20 13:25	1
Acenaphthene	21		11		ug/Kg	☼	12/29/20 11:10	12/30/20 13:25	1
Fluorene	ND		11		ug/Kg	☼	12/29/20 11:10	12/30/20 13:25	1
Phenanthrene	100		11		ug/Kg	☼	12/29/20 11:10	12/30/20 13:25	1
Anthracene	22		11		ug/Kg	☼	12/29/20 11:10	12/30/20 13:25	1
Fluoranthene	260		11		ug/Kg	☼	12/29/20 11:10	12/30/20 13:25	1
Pyrene	360		11		ug/Kg	☼	12/29/20 11:10	12/30/20 13:25	1
Benzo[a]anthracene	300		11		ug/Kg	☼	12/29/20 11:10	12/30/20 13:25	1
Chrysene	390		11		ug/Kg	☼	12/29/20 11:10	12/30/20 13:25	1
Benzo[b]fluoranthene	380		11		ug/Kg	☼	12/29/20 11:10	12/30/20 13:25	1
Benzo[k]fluoranthene	140		11		ug/Kg	☼	12/29/20 11:10	12/30/20 13:25	1
Benzo[a]pyrene	420		11		ug/Kg	☼	12/29/20 11:10	12/30/20 13:25	1
Indeno[1,2,3-cd]pyrene	190		11		ug/Kg	☼	12/29/20 11:10	12/30/20 13:25	1
Dibenz(a,h)anthracene	75		11		ug/Kg	☼	12/29/20 11:10	12/30/20 13:25	1
Benzo[g,h,i]perylene	260		11		ug/Kg	☼	12/29/20 11:10	12/30/20 13:25	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	75		33 - 120				12/29/20 11:10	12/30/20 13:25	1
2-Fluorobiphenyl (Surr)	88		47 - 120				12/29/20 11:10	12/30/20 13:25	1
p-Terphenyl-d14	114		74 - 120				12/29/20 11:10	12/30/20 13:25	1

Method: 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	18		2.7		mg/Kg	☼	12/24/20 09:39	12/29/20 12:41	1

Client Sample Results

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014004

Job ID: 590-14402-1

Client Sample ID: TP-84 (0-1')

Lab Sample ID: 590-14402-10

Date Collected: 12/22/20 10:05

Matrix: Solid

Date Received: 12/22/20 12:00

Percent Solids: 79.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		12		ug/Kg	☼	12/29/20 11:10	12/30/20 13:51	1
2-Methylnaphthalene	ND		12		ug/Kg	☼	12/29/20 11:10	12/30/20 13:51	1
1-Methylnaphthalene	ND		12		ug/Kg	☼	12/29/20 11:10	12/30/20 13:51	1
Acenaphthylene	ND		12		ug/Kg	☼	12/29/20 11:10	12/30/20 13:51	1
Acenaphthene	46		12		ug/Kg	☼	12/29/20 11:10	12/30/20 13:51	1
Fluorene	14		12		ug/Kg	☼	12/29/20 11:10	12/30/20 13:51	1
Phenanthrene	240		12		ug/Kg	☼	12/29/20 11:10	12/30/20 13:51	1
Anthracene	49		12		ug/Kg	☼	12/29/20 11:10	12/30/20 13:51	1
Fluoranthene	650		12		ug/Kg	☼	12/29/20 11:10	12/30/20 13:51	1
Pyrene	840		12		ug/Kg	☼	12/29/20 11:10	12/30/20 13:51	1
Benzo[a]anthracene	630		12		ug/Kg	☼	12/29/20 11:10	12/30/20 13:51	1
Chrysene	800		12		ug/Kg	☼	12/29/20 11:10	12/30/20 13:51	1
Benzo[b]fluoranthene	910		12		ug/Kg	☼	12/29/20 11:10	12/30/20 13:51	1
Benzo[k]fluoranthene	360		12		ug/Kg	☼	12/29/20 11:10	12/30/20 13:51	1
Benzo[a]pyrene	990		12		ug/Kg	☼	12/29/20 11:10	12/30/20 13:51	1
Indeno[1,2,3-cd]pyrene	470		12		ug/Kg	☼	12/29/20 11:10	12/30/20 13:51	1
Dibenz(a,h)anthracene	170		12		ug/Kg	☼	12/29/20 11:10	12/30/20 13:51	1
Benzo[g,h,i]perylene	610		12		ug/Kg	☼	12/29/20 11:10	12/30/20 13:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	72		33 - 120	12/29/20 11:10	12/30/20 13:51	1
2-Fluorobiphenyl (Surr)	85		47 - 120	12/29/20 11:10	12/30/20 13:51	1
p-Terphenyl-d14	107		74 - 120	12/29/20 11:10	12/30/20 13:51	1

Method: 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	52		2.6		mg/Kg	☼	12/24/20 09:39	12/29/20 12:45	1

Client Sample ID: TP-85 (0-1')

Lab Sample ID: 590-14402-11

Date Collected: 12/22/20 10:35

Matrix: Solid

Date Received: 12/22/20 12:00

Percent Solids: 83.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	150		110		ug/Kg	☼	12/29/20 11:10	12/30/20 14:17	10
2-Methylnaphthalene	120		110		ug/Kg	☼	12/29/20 11:10	12/30/20 14:17	10
1-Methylnaphthalene	110		110		ug/Kg	☼	12/29/20 11:10	12/30/20 14:17	10
Acenaphthylene	ND		110		ug/Kg	☼	12/29/20 11:10	12/30/20 14:17	10
Acenaphthene	790		110		ug/Kg	☼	12/29/20 11:10	12/30/20 14:17	10
Fluorene	300		110		ug/Kg	☼	12/29/20 11:10	12/30/20 14:17	10
Phenanthrene	5100		110		ug/Kg	☼	12/29/20 11:10	12/30/20 14:17	10
Anthracene	940		110		ug/Kg	☼	12/29/20 11:10	12/30/20 14:17	10
Fluoranthene	14000		110		ug/Kg	☼	12/29/20 11:10	12/30/20 14:17	10
Pyrene	15000		220		ug/Kg	☼	12/29/20 11:10	12/30/20 15:35	20
Benzo[a]anthracene	13000		110		ug/Kg	☼	12/29/20 11:10	12/30/20 14:17	10
Chrysene	14000		220		ug/Kg	☼	12/29/20 11:10	12/30/20 15:35	20
Benzo[b]fluoranthene	18000		220		ug/Kg	☼	12/29/20 11:10	12/30/20 15:35	20
Benzo[k]fluoranthene	6700		110		ug/Kg	☼	12/29/20 11:10	12/30/20 14:17	10
Benzo[a]pyrene	16000		220		ug/Kg	☼	12/29/20 11:10	12/30/20 15:35	20
Indeno[1,2,3-cd]pyrene	8900		110		ug/Kg	☼	12/29/20 11:10	12/30/20 14:17	10

Eurofins TestAmerica, Spokane

Client Sample Results

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014004

Job ID: 590-14402-1

Client Sample ID: TP-85 (0-1')

Lab Sample ID: 590-14402-11

Date Collected: 12/22/20 10:35

Matrix: Solid

Date Received: 12/22/20 12:00

Percent Solids: 83.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibenz(a,h)anthracene	2900		110		ug/Kg	☼	12/29/20 11:10	12/30/20 14:17	10
Benzo[g,h,i]perylene	10000		110		ug/Kg	☼	12/29/20 11:10	12/30/20 14:17	10
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	81		33 - 120				12/29/20 11:10	12/30/20 14:17	10
Nitrobenzene-d5	81		33 - 120				12/29/20 11:10	12/30/20 15:35	20
2-Fluorobiphenyl (Surr)	89		47 - 120				12/29/20 11:10	12/30/20 14:17	10
2-Fluorobiphenyl (Surr)	88		47 - 120				12/29/20 11:10	12/30/20 15:35	20
p-Terphenyl-d14	116		74 - 120				12/29/20 11:10	12/30/20 14:17	10
p-Terphenyl-d14	117		74 - 120				12/29/20 11:10	12/30/20 15:35	20

Method: 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	19		2.3		mg/Kg	☼	12/24/20 09:39	12/29/20 12:49	1

QC Sample Results

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014004

Job ID: 590-14402-1

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

Lab Sample ID: MB 590-30126/1-A
Matrix: Solid
Analysis Batch: 30124

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 30126

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		10		ug/Kg		12/29/20 11:10	12/29/20 20:44	1
2-Methylnaphthalene	ND		10		ug/Kg		12/29/20 11:10	12/29/20 20:44	1
1-Methylnaphthalene	ND		10		ug/Kg		12/29/20 11:10	12/29/20 20:44	1
Acenaphthylene	ND		10		ug/Kg		12/29/20 11:10	12/29/20 20:44	1
Acenaphthene	ND		10		ug/Kg		12/29/20 11:10	12/29/20 20:44	1
Fluorene	ND		10		ug/Kg		12/29/20 11:10	12/29/20 20:44	1
Phenanthrene	ND		10		ug/Kg		12/29/20 11:10	12/29/20 20:44	1
Anthracene	ND		10		ug/Kg		12/29/20 11:10	12/29/20 20:44	1
Fluoranthene	ND		10		ug/Kg		12/29/20 11:10	12/29/20 20:44	1
Pyrene	ND		10		ug/Kg		12/29/20 11:10	12/29/20 20:44	1
Benzo[a]anthracene	ND		10		ug/Kg		12/29/20 11:10	12/29/20 20:44	1
Chrysene	ND		10		ug/Kg		12/29/20 11:10	12/29/20 20:44	1
Benzo[b]fluoranthene	ND		10		ug/Kg		12/29/20 11:10	12/29/20 20:44	1
Benzo[k]fluoranthene	ND		10		ug/Kg		12/29/20 11:10	12/29/20 20:44	1
Benzo[a]pyrene	ND		10		ug/Kg		12/29/20 11:10	12/29/20 20:44	1
Indeno[1,2,3-cd]pyrene	ND		10		ug/Kg		12/29/20 11:10	12/29/20 20:44	1
Dibenz(a,h)anthracene	ND		10		ug/Kg		12/29/20 11:10	12/29/20 20:44	1
Benzo[g,h,i]perylene	ND		10		ug/Kg		12/29/20 11:10	12/29/20 20:44	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	85		33 - 120	12/29/20 11:10	12/29/20 20:44	1
2-Fluorobiphenyl (Surr)	96		47 - 120	12/29/20 11:10	12/29/20 20:44	1
p-Terphenyl-d14	115		74 - 120	12/29/20 11:10	12/29/20 20:44	1

Lab Sample ID: LCS 590-30126/2-A
Matrix: Solid
Analysis Batch: 30124

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 30126

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Naphthalene	267	216		ug/Kg		81	45 - 120
2-Methylnaphthalene	267	226		ug/Kg		85	48 - 120
1-Methylnaphthalene	267	213		ug/Kg		80	44 - 120
Acenaphthylene	267	250		ug/Kg		94	52 - 120
Acenaphthene	267	242		ug/Kg		91	53 - 120
Fluorene	267	255		ug/Kg		96	55 - 120
Phenanthrene	267	267		ug/Kg		100	57 - 121
Anthracene	267	258		ug/Kg		97	60 - 120
Fluoranthene	267	283		ug/Kg		106	63 - 127
Pyrene	267	287		ug/Kg		107	61 - 125
Benzo[a]anthracene	267	307		ug/Kg		115	61 - 131
Chrysene	267	297		ug/Kg		111	67 - 127
Benzo[b]fluoranthene	267	300		ug/Kg		112	61 - 127
Benzo[k]fluoranthene	267	280		ug/Kg		105	63 - 127
Benzo[a]pyrene	267	293		ug/Kg		110	60 - 126
Indeno[1,2,3-cd]pyrene	267	290		ug/Kg		109	63 - 128
Dibenz(a,h)anthracene	267	299		ug/Kg		112	60 - 121
Benzo[g,h,i]perylene	267	295		ug/Kg		111	58 - 129

Eurofins TestAmerica, Spokane

QC Sample Results

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014004

Job ID: 590-14402-1

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

Lab Sample ID: LCS 590-30126/2-A
Matrix: Solid
Analysis Batch: 30124

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 30126

<u>Surrogate</u>	<u>LCS</u> <u>%Recovery</u>	<u>LCS</u> <u>Qualifier</u>	<u>Limits</u>
Nitrobenzene-d5	80		33 - 120
2-Fluorobiphenyl (Surr)	90		47 - 120
p-Terphenyl-d14	111		74 - 120

Lab Sample ID: 590-14402-1 MS
Matrix: Solid
Analysis Batch: 30124

Client Sample ID: TP-81 (0-1')
Prep Type: Total/NA
Prep Batch: 30126

<u>Analyte</u>	<u>Sample</u> <u>Result</u>	<u>Sample</u> <u>Qualifier</u>	<u>Spike</u> <u>Added</u>	<u>MS</u> <u>Result</u>	<u>MS</u> <u>Qualifier</u>	<u>Unit</u>	<u>D</u>	<u>%Rec</u>	<u>%Rec.</u> <u>Limits</u>
Naphthalene	ND		306	236		ug/Kg	☼	77	45 - 120
2-Methylnaphthalene	ND		306	260		ug/Kg	☼	85	48 - 120
1-Methylnaphthalene	ND		306	256		ug/Kg	☼	84	44 - 120
Acenaphthylene	ND		306	268		ug/Kg	☼	87	52 - 120
Acenaphthene	ND		306	259		ug/Kg	☼	85	53 - 120
Fluorene	ND		306	289		ug/Kg	☼	94	55 - 120
Phenanthrene	12		306	296		ug/Kg	☼	93	57 - 121
Anthracene	ND		306	280		ug/Kg	☼	90	60 - 120
Fluoranthene	29		306	328		ug/Kg	☼	98	63 - 127
Pyrene	34		306	349		ug/Kg	☼	103	61 - 125
Benzo[a]anthracene	25		306	353		ug/Kg	☼	107	61 - 131
Chrysene	32		306	335		ug/Kg	☼	99	67 - 127
Benzo[b]fluoranthene	41		306	363		ug/Kg	☼	105	61 - 127
Benzo[k]fluoranthene	17		306	325		ug/Kg	☼	100	63 - 127
Benzo[a]pyrene	38		306	366		ug/Kg	☼	107	60 - 126
Indeno[1,2,3-cd]pyrene	22		306	343		ug/Kg	☼	105	63 - 128
Dibenz(a,h)anthracene	ND		306	343		ug/Kg	☼	109	60 - 121
Benzo[g,h,i]perylene	27		306	347		ug/Kg	☼	104	58 - 129

<u>Surrogate</u>	<u>MS</u> <u>%Recovery</u>	<u>MS</u> <u>Qualifier</u>	<u>Limits</u>
Nitrobenzene-d5	79		33 - 120
2-Fluorobiphenyl (Surr)	89		47 - 120
p-Terphenyl-d14	107		74 - 120

Lab Sample ID: 590-14402-1 MSD
Matrix: Solid
Analysis Batch: 30124

Client Sample ID: TP-81 (0-1')
Prep Type: Total/NA
Prep Batch: 30126

<u>Analyte</u>	<u>Sample</u> <u>Result</u>	<u>Sample</u> <u>Qualifier</u>	<u>Spike</u> <u>Added</u>	<u>MSD</u> <u>Result</u>	<u>MSD</u> <u>Qualifier</u>	<u>Unit</u>	<u>D</u>	<u>%Rec</u>	<u>%Rec.</u> <u>Limits</u>	<u>RPD</u>	<u>RPD</u> <u>Limit</u>
Naphthalene	ND		302	209		ug/Kg	☼	69	45 - 120	12	20
2-Methylnaphthalene	ND		302	229		ug/Kg	☼	76	48 - 120	13	20
1-Methylnaphthalene	ND		302	223		ug/Kg	☼	74	44 - 120	14	14
Acenaphthylene	ND		302	256		ug/Kg	☼	85	52 - 120	5	20
Acenaphthene	ND		302	248		ug/Kg	☼	82	53 - 120	4	11
Fluorene	ND		302	263		ug/Kg	☼	87	55 - 120	9	21
Phenanthrene	12		302	282		ug/Kg	☼	90	57 - 121	5	18
Anthracene	ND		302	265		ug/Kg	☼	87	60 - 120	5	18
Fluoranthene	29		302	313		ug/Kg	☼	94	63 - 127	5	18
Pyrene	34		302	334		ug/Kg	☼	99	61 - 125	4	26

Eurofins TestAmerica, Spokane

QC Sample Results

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014004

Job ID: 590-14402-1

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

Lab Sample ID: 590-14402-1 MSD
Matrix: Solid
Analysis Batch: 30124

Client Sample ID: TP-81 (0-1')
Prep Type: Total/NA
Prep Batch: 30126

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzo[a]anthracene	25		302	343		ug/Kg	⊛	105	61 - 131	3	16
Chrysene	32		302	326		ug/Kg	⊛	97	67 - 127	3	15
Benzo[b]fluoranthene	41		302	333		ug/Kg	⊛	97	61 - 127	9	16
Benzo[k]fluoranthene	17		302	311		ug/Kg	⊛	97	63 - 127	4	16
Benzo[a]pyrene	38		302	338		ug/Kg	⊛	99	60 - 126	8	20
Indeno[1,2,3-cd]pyrene	22		302	313		ug/Kg	⊛	97	63 - 128	9	18
Dibenz(a,h)anthracene	ND		302	309		ug/Kg	⊛	100	60 - 121	10	18
Benzo[g,h,i]perylene	27		302	318		ug/Kg	⊛	96	58 - 129	9	17
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
Nitrobenzene-d5	69		33 - 120								
2-Fluorobiphenyl (Surr)	81		47 - 120								
p-Terphenyl-d14	101		74 - 120								

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 590-30101/2-A
Matrix: Solid
Analysis Batch: 30117

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 30101

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		3.0		mg/Kg		12/24/20 09:38	12/28/20 13:09	1

Lab Sample ID: LCS 590-30101/1-A
Matrix: Solid
Analysis Batch: 30117

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 30101

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	50.0	49.5		mg/Kg		99	80 - 120

Lab Sample ID: 590-14402-1 MS
Matrix: Solid
Analysis Batch: 30117

Client Sample ID: TP-81 (0-1')
Prep Type: Total/NA
Prep Batch: 30101

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	120	F1	55.7	166		mg/Kg	⊛	87	75 - 125

Lab Sample ID: 590-14402-1 MSD
Matrix: Solid
Analysis Batch: 30117

Client Sample ID: TP-81 (0-1')
Prep Type: Total/NA
Prep Batch: 30101

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead	120	F1	56.8	193	F1	mg/Kg	⊛	132	75 - 125	15	20

Lab Sample ID: 590-14402-1 DU
Matrix: Solid
Analysis Batch: 30117

Client Sample ID: TP-81 (0-1')
Prep Type: Total/NA
Prep Batch: 30101

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Lead	120	F1	96.3		mg/Kg	⊛	20	20

Eurofins TestAmerica, Spokane

Lab Chronicle

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014004

Job ID: 590-14402-1

Client Sample ID: TP-81 (0-1')
Date Collected: 12/21/20 11:20
Date Received: 12/22/20 12:00

Lab Sample ID: 590-14402-1
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			30078	12/22/20 16:14	NMI	TAL SPK

Client Sample ID: TP-81 (0-1')
Date Collected: 12/21/20 11:20
Date Received: 12/22/20 12:00

Lab Sample ID: 590-14402-1
Matrix: Solid
Percent Solids: 86.3

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	30126	12/29/20 11:10	NMI	TAL SPK
Total/NA	Analysis	8270E SIM		1			30124	12/29/20 21:37	NMI	TAL SPK
Total/NA	Prep	3050B			1.31 g	50 mL	30101	12/24/20 09:39	AMB	TAL SPK
Total/NA	Analysis	6010D		1			30117	12/28/20 13:25	JSP	TAL SPK

Client Sample ID: TP-79 (0-1')
Date Collected: 12/21/20 10:55
Date Received: 12/22/20 12:00

Lab Sample ID: 590-14402-2
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			30078	12/22/20 16:14	NMI	TAL SPK

Client Sample ID: TP-79 (0-1')
Date Collected: 12/21/20 10:55
Date Received: 12/22/20 12:00

Lab Sample ID: 590-14402-2
Matrix: Solid
Percent Solids: 85.1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			15.03 g	2 mL	30126	12/29/20 11:10	NMI	TAL SPK
Total/NA	Analysis	8270E SIM		1			30124	12/29/20 22:56	NMI	TAL SPK
Total/NA	Prep	3050B			1.37 g	50 mL	30101	12/24/20 09:39	AMB	TAL SPK
Total/NA	Analysis	6010D		1			30131	12/29/20 12:14	JSP	TAL SPK

Client Sample ID: TP-77 (0-1')
Date Collected: 12/21/20 10:30
Date Received: 12/22/20 12:00

Lab Sample ID: 590-14402-3
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			30078	12/22/20 16:14	NMI	TAL SPK

Client Sample ID: TP-77 (0-1')
Date Collected: 12/21/20 10:30
Date Received: 12/22/20 12:00

Lab Sample ID: 590-14402-3
Matrix: Solid
Percent Solids: 85.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			15.85 g	2 mL	30126	12/29/20 11:10	NMI	TAL SPK
Total/NA	Analysis	8270E SIM		1			30138	12/30/20 10:51	NMI	TAL SPK
Total/NA	Prep	3050B			1.45 g	50 mL	30101	12/24/20 09:39	AMB	TAL SPK
Total/NA	Analysis	6010D		1			30131	12/29/20 12:18	JSP	TAL SPK

Lab Chronicle

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014004

Job ID: 590-14402-1

Client Sample ID: TP-75 (0-1')
Date Collected: 12/21/20 09:55
Date Received: 12/22/20 12:00

Lab Sample ID: 590-14402-4
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			30078	12/22/20 16:14	NMI	TAL SPK

Client Sample ID: TP-75 (0-1')
Date Collected: 12/21/20 09:55
Date Received: 12/22/20 12:00

Lab Sample ID: 590-14402-4
Matrix: Solid
Percent Solids: 81.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			15.08 g	2 mL	30126	12/29/20 11:10	NMI	TAL SPK
Total/NA	Analysis	8270E SIM		1			30138	12/30/20 11:17	NMI	TAL SPK
Total/NA	Prep	3050B			1.31 g	50 mL	30101	12/24/20 09:39	AMB	TAL SPK
Total/NA	Analysis	6010D		5			30131	12/29/20 13:05	JSP	TAL SPK

Client Sample ID: TP-76 (0-1')
Date Collected: 12/21/20 08:30
Date Received: 12/22/20 12:00

Lab Sample ID: 590-14402-5
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			30078	12/22/20 16:14	NMI	TAL SPK

Client Sample ID: TP-76 (0-1')
Date Collected: 12/21/20 08:30
Date Received: 12/22/20 12:00

Lab Sample ID: 590-14402-5
Matrix: Solid
Percent Solids: 87.1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			15.13 g	2 mL	30126	12/29/20 11:10	NMI	TAL SPK
Total/NA	Analysis	8270E SIM		1			30138	12/30/20 11:44	NMI	TAL SPK
Total/NA	Prep	3050B			1.42 g	50 mL	30101	12/24/20 09:39	AMB	TAL SPK
Total/NA	Analysis	6010D		1			30131	12/29/20 12:26	JSP	TAL SPK

Client Sample ID: TP-78 (0-1')
Date Collected: 12/21/20 07:40
Date Received: 12/22/20 12:00

Lab Sample ID: 590-14402-6
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			30078	12/22/20 16:14	NMI	TAL SPK

Client Sample ID: TP-78 (0-1')
Date Collected: 12/21/20 07:40
Date Received: 12/22/20 12:00

Lab Sample ID: 590-14402-6
Matrix: Solid
Percent Solids: 87.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			15.54 g	2 mL	30126	12/29/20 11:10	NMI	TAL SPK
Total/NA	Analysis	8270E SIM		1			30138	12/30/20 12:10	NMI	TAL SPK
Total/NA	Prep	3050B			1.36 g	50 mL	30101	12/24/20 09:39	AMB	TAL SPK
Total/NA	Analysis	6010D		1			30131	12/29/20 12:30	JSP	TAL SPK

Lab Chronicle

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014004

Job ID: 590-14402-1

Client Sample ID: TP-80 (0-1')
Date Collected: 12/22/20 08:10
Date Received: 12/22/20 12:00

Lab Sample ID: 590-14402-7
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			30078	12/22/20 16:14	NMI	TAL SPK

Client Sample ID: TP-80 (0-1')
Date Collected: 12/22/20 08:10
Date Received: 12/22/20 12:00

Lab Sample ID: 590-14402-7
Matrix: Solid
Percent Solids: 56.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			15.32 g	2 mL	30126	12/29/20 11:10	NMI	TAL SPK
Total/NA	Analysis	8270E SIM		1			30138	12/30/20 12:33	NMI	TAL SPK
Total/NA	Prep	3050B			2.10 g	50 mL	30101	12/24/20 09:39	AMB	TAL SPK
Total/NA	Analysis	6010D		1			30131	12/29/20 12:34	JSP	TAL SPK

Client Sample ID: TP-82 (0-1')
Date Collected: 12/22/20 09:00
Date Received: 12/22/20 12:00

Lab Sample ID: 590-14402-8
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			30078	12/22/20 16:14	NMI	TAL SPK

Client Sample ID: TP-82 (0-1')
Date Collected: 12/22/20 09:00
Date Received: 12/22/20 12:00

Lab Sample ID: 590-14402-8
Matrix: Solid
Percent Solids: 78.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			15.68 g	2 mL	30126	12/29/20 11:10	NMI	TAL SPK
Total/NA	Analysis	8270E SIM		10			30138	12/30/20 12:59	NMI	TAL SPK
Total/NA	Prep	3050B			1.69 g	50 mL	30101	12/24/20 09:39	AMB	TAL SPK
Total/NA	Analysis	6010D		1			30131	12/29/20 12:38	JSP	TAL SPK

Client Sample ID: TP-83 (0-1')
Date Collected: 12/22/20 09:30
Date Received: 12/22/20 12:00

Lab Sample ID: 590-14402-9
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			30078	12/22/20 16:14	NMI	TAL SPK

Client Sample ID: TP-83 (0-1')
Date Collected: 12/22/20 09:30
Date Received: 12/22/20 12:00

Lab Sample ID: 590-14402-9
Matrix: Solid
Percent Solids: 86.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			15.24 g	2 mL	30126	12/29/20 11:10	NMI	TAL SPK
Total/NA	Analysis	8270E SIM		1			30138	12/30/20 13:25	NMI	TAL SPK
Total/NA	Prep	3050B			1.28 g	50 mL	30101	12/24/20 09:39	AMB	TAL SPK
Total/NA	Analysis	6010D		1			30131	12/29/20 12:41	JSP	TAL SPK

Lab Chronicle

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014004

Job ID: 590-14402-1

Client Sample ID: TP-84 (0-1')
Date Collected: 12/22/20 10:05
Date Received: 12/22/20 12:00

Lab Sample ID: 590-14402-10
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			30078	12/22/20 16:14	NMI	TAL SPK

Client Sample ID: TP-84 (0-1')
Date Collected: 12/22/20 10:05
Date Received: 12/22/20 12:00

Lab Sample ID: 590-14402-10
Matrix: Solid
Percent Solids: 79.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			15.13 g	2 mL	30126	12/29/20 11:10	NMI	TAL SPK
Total/NA	Analysis	8270E SIM		1			30138	12/30/20 13:51	NMI	TAL SPK
Total/NA	Prep	3050B			1.43 g	50 mL	30101	12/24/20 09:39	AMB	TAL SPK
Total/NA	Analysis	6010D		1			30131	12/29/20 12:45	JSP	TAL SPK

Client Sample ID: TP-85 (0-1')
Date Collected: 12/22/20 10:35
Date Received: 12/22/20 12:00

Lab Sample ID: 590-14402-11
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			30078	12/22/20 16:14	NMI	TAL SPK

Client Sample ID: TP-85 (0-1')
Date Collected: 12/22/20 10:35
Date Received: 12/22/20 12:00

Lab Sample ID: 590-14402-11
Matrix: Solid
Percent Solids: 83.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			15.95 g	2 mL	30126	12/29/20 11:10	NMI	TAL SPK
Total/NA	Analysis	8270E SIM		10			30138	12/30/20 14:17	NMI	TAL SPK
Total/NA	Prep	3550C			15.95 g	2 mL	30126	12/29/20 11:10	NMI	TAL SPK
Total/NA	Analysis	8270E SIM		20			30138	12/30/20 15:35	NMI	TAL SPK
Total/NA	Prep	3050B			1.54 g	50 mL	30101	12/24/20 09:39	AMB	TAL SPK
Total/NA	Analysis	6010D		1			30131	12/29/20 12:49	JSP	TAL SPK

Laboratory References:

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

Accreditation/Certification Summary

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014004

Job ID: 590-14402-1

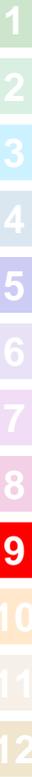
Laboratory: Eurofins TestAmerica, Spokane

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

<u>Authority</u>	<u>Program</u>	<u>Identification Number</u>	<u>Expiration Date</u>
Washington	State	C569	01-06-21

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

<u>Analysis Method</u>	<u>Prep Method</u>	<u>Matrix</u>	<u>Analyte</u>
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids



Method Summary

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014004

Job ID: 590-14402-1

Method	Method Description	Protocol	Laboratory
8270E SIM	Semivolatile Organic Compounds (GC/MS SIM)	SW846	TAL SPK
6010D	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 = Eurofins TestAmerica, Spokane, 11922 East 1st Ave, Spokane, WA 99206, TEL (509)924-9200



Sample Custody Record

Samples Shipped to: Test America



1 of 1

Hart Crowser, Inc.
3131 Elliott Avenue, Suite 600
Seattle, Washington 98121
Office: 206.324.9530 • Fax 206.328.5581

JOB <u>150014004</u> LAB NUMBER _____ PROJECT NAME <u>CVSD</u> HART CROWSER CONTACT <u>John Haney</u> SAMPLED BY: <u>KIT</u>						REQUESTED ANALYSIS <u>Lead</u> <u>PAHs</u>										NO. OF CONTAINERS	OBSERVATIONS/COMMENTS/ COMPOSITING INSTRUCTIONS			
LAB NO.	SAMPLE ID	DESCRIPTION	DATE	TIME	MATRIX															
	X TP-81	(0-1')	12/21/20	11:20	Soil	X	+													
	X TP-79	(0-1')		10:55		X	+													
	X TP-77	(0-1')		10:30		X	+													
	X TP-75	(0-1')		9:55		X	+													
	X TP-76	(0-1')		8:30		X	+													
	X TP-78	(0-1')		7:40		X	+													
	X TP-80	(0-1')	12/22/20	08:10		X	+													
	X TP-82	(0-1')		09:00		X	+													
	X TP-83	(0-1')		09:30		X	+													
	X TP-84	(0-1')		10:05		X	+													
	X TP-85	(0-1')		10:35		X	+													
RELINQUISHED BY		DATE	RECEIVED BY		DATE	SPECIAL SHIPMENT HANDLING OR STORAGE REQUIREMENTS:										TOTAL NUMBER OF CONTAINERS				
<u>Keylin Hood</u>		12/22/20	<u>Jerome P. v. c</u>		12/22/20	<input checked="" type="checkbox"/> 5 day TAT <input checked="" type="checkbox"/>										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 <u>2.4°C</u> SHIPMENT METHOD: <input type="checkbox"/> HAND <input type="checkbox"/> COURIER <input type="checkbox"/> OVERNIGHT				
SIGNATURE		TIME	SIGNATURE		TIME															
PRINT NAME			PRINT NAME																	
COMPANY			COMPANY																	
RELINQUISHED BY		DATE	RECEIVED BY		DATE	COOLER NO.:										TURNAROUND TIME:				
SIGNATURE			SIGNATURE			STORAGE LOCATION:										<input type="checkbox"/> 24 HOURS <input type="checkbox"/> 1 WEEK <input type="checkbox"/> 48 HOURS <input type="checkbox"/> STANDARD <input type="checkbox"/> 72 HOURS OTHER <u>5 day</u>				
PRINT NAME			PRINT NAME			See Lab Work Order No. _____														
COMPANY			COMPANY			for Other Contract Requirements														



Login Sample Receipt Checklist

Client: Hart Crowser, Inc.

Job Number: 590-14402-1

Login Number: 14402

List Source: Eurofins TestAmerica, Spokane

List Number: 1

Creator: Arrington, Randee E

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	
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	

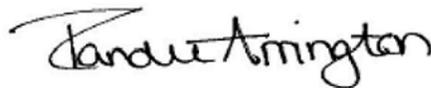
ANALYTICAL REPORT

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

Laboratory Job ID: 590-14419-1
Client Project/Site: CVSD/15014004

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

Attn: John Haney



*Authorized for release by:
1/11/2021 3:56:10 PM*

Randee Arrington, Project Manager II
(509)924-9200
Randee.Arrington@Eurofinset.com

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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.



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Case Narrative

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014004

Job ID: 590-14419-1

Job ID: 590-14419-1

Laboratory: Eurofins TestAmerica, Spokane

Narrative

Receipt

The samples were received on 12/24/2020 10:55 AM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 1.7° C.

Receipt Exceptions

Method 8270E SIM PAH: The following samples were received outside of holding time: SB-1(2-3) (590-14419-2), SB-2(2-3) (590-14419-3), SB-3(2-3) (590-14419-4), SB-4(4-5) (590-14419-6), SB-5(4-5) (590-14419-8), SB-6(2-3) (590-14419-9), SB-7(1-2) (590-14419-10), SB-8(2-3) (590-14419-11), SB-9(4-5) (590-14419-13), SB-10(1-2) (590-14419-14), SB-11(1-2) (590-14419-16), SB-12(4-5) (590-14419-18), SB-13(3-4) (590-14419-20), SB-14(1-2) (590-14419-21), SB-16(1-2) (590-14419-23) and SB-17(4-5) (590-14419-25).

GC/MS Semi VOA

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

Metals

Method 6010D: The low level continuing calibration verification (CCVL) associated with batch 590-30176 recovered above the upper control limit for Lead. The samples associated with this CCV were either 10x the spike amount 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.

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: CVSD/15014004

Job ID: 590-14419-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
590-14419-1	SB-1(1-2)	Solid	10/06/20 09:51	12/28/20 10:55	
590-14419-2	SB-1(2-3)	Solid	10/06/20 09:52	12/28/20 10:55	
590-14419-3	SB-2(2-3)	Solid	10/06/20 10:02	12/28/20 10:55	
590-14419-4	SB-3(2-3)	Solid	10/06/20 10:32	12/28/20 10:55	
590-14419-5	SB-4(1-2)	Solid	10/06/20 09:01	12/28/20 10:55	
590-14419-6	SB-4(4-5)	Solid	10/06/20 09:04	12/28/20 10:55	
590-14419-7	SB-5(2-3)	Solid	10/05/20 16:32	12/28/20 10:55	
590-14419-8	SB-5(4-5)	Solid	10/05/20 16:34	12/28/20 10:55	
590-14419-9	SB-6(2-3)	Solid	10/06/20 10:52	12/28/20 10:55	
590-14419-10	SB-7(1-2)	Solid	10/06/20 11:16	12/28/20 10:55	
590-14419-11	SB-8(2-3)	Solid	10/05/20 15:52	12/28/20 10:55	
590-14419-12	SB-9(3-4)	Solid	10/05/20 15:33	12/28/20 10:55	
590-14419-13	SB-9(4-5)	Solid	10/05/20 15:34	12/28/20 10:55	
590-14419-14	SB-10(1-2)	Solid	10/06/20 12:21	12/28/20 10:55	
590-14419-15	SB-11(2-3)	Solid	10/06/20 12:42	12/28/20 10:55	
590-14419-16	SB-11(1-2)	Solid	10/06/20 12:41	12/28/20 10:55	
590-14419-17	SB-12(3-4)	Solid	10/05/20 15:18	12/28/20 10:55	
590-14419-18	SB-12(4-5)	Solid	10/05/20 15:19	12/28/20 10:55	
590-14419-19	SB-13(1-2)	Solid	10/05/20 14:41	12/28/20 10:55	
590-14419-20	SB-13(3-4)	Solid	10/05/20 14:43	12/28/20 10:55	
590-14419-21	SB-14(1-2)	Solid	10/06/20 13:01	12/28/20 10:55	
590-14419-22	SB-15(2-3)	Solid	10/06/20 13:12	12/28/20 10:55	
590-14419-23	SB-16(1-2)	Solid	10/05/20 14:11	12/28/20 10:55	
590-14419-24	SB-17(2-3)	Solid	10/05/20 13:32	12/28/20 10:55	
590-14419-25	SB-17(4-5)	Solid	10/05/20 13:34	12/28/20 10:55	

Definitions/Glossary

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014004

Job ID: 590-14419-1

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
H3	Sample was received and analyzed past holding time.

Metals

Qualifier	Qualifier Description
^+	Continuing Calibration Verification (CCV) is outside acceptance limits, high biased.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
▫	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
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)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
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)
TNTC	Too Numerous To Count

Client Sample Results

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014004

Job ID: 590-14419-1

Client Sample ID: SB-1(1-2)

Lab Sample ID: 590-14419-1

Date Collected: 10/06/20 09:51

Matrix: Solid

Date Received: 12/28/20 10:55

Percent Solids: 93.5

Method: 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	110		2.3		mg/Kg	☼	01/04/21 09:30	01/06/21 12:20	1

Client Sample ID: SB-1(2-3)

Lab Sample ID: 590-14419-2

Date Collected: 10/06/20 09:52

Matrix: Solid

Date Received: 12/28/20 10:55

Percent Solids: 94.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND	H3	10		ug/Kg	☼	01/07/21 12:58	01/07/21 15:31	1
2-Methylnaphthalene	ND	H3	10		ug/Kg	☼	01/07/21 12:58	01/07/21 15:31	1
1-Methylnaphthalene	ND	H3	10		ug/Kg	☼	01/07/21 12:58	01/07/21 15:31	1
Acenaphthylene	ND	H3	10		ug/Kg	☼	01/07/21 12:58	01/07/21 15:31	1
Acenaphthene	ND	H3	10		ug/Kg	☼	01/07/21 12:58	01/07/21 15:31	1
Fluorene	ND	H3	10		ug/Kg	☼	01/07/21 12:58	01/07/21 15:31	1
Phenanthrene	58	H3	10		ug/Kg	☼	01/07/21 12:58	01/07/21 15:31	1
Anthracene	12	H3	10		ug/Kg	☼	01/07/21 12:58	01/07/21 15:31	1
Fluoranthene	160	H3	10		ug/Kg	☼	01/07/21 12:58	01/07/21 15:31	1
Pyrene	190	H3	10		ug/Kg	☼	01/07/21 12:58	01/07/21 15:31	1
Benzo[a]anthracene	140	H3	10		ug/Kg	☼	01/07/21 12:58	01/07/21 15:31	1
Chrysene	180	H3	10		ug/Kg	☼	01/07/21 12:58	01/07/21 15:31	1
Benzo[b]fluoranthene	280	H3	10		ug/Kg	☼	01/07/21 12:58	01/07/21 15:31	1
Benzo[k]fluoranthene	99	H3	10		ug/Kg	☼	01/07/21 12:58	01/07/21 15:31	1
Benzo[a]pyrene	240	H3	10		ug/Kg	☼	01/07/21 12:58	01/07/21 15:31	1
Indeno[1,2,3-cd]pyrene	140	H3	10		ug/Kg	☼	01/07/21 12:58	01/07/21 15:31	1
Dibenz(a,h)anthracene	46	H3	10		ug/Kg	☼	01/07/21 12:58	01/07/21 15:31	1
Benzo[g,h,i]perylene	190	H3	10		ug/Kg	☼	01/07/21 12:58	01/07/21 15:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	63	H3	33 - 120	01/07/21 12:58	01/07/21 15:31	1
2-Fluorobiphenyl (Surr)	73	H3	47 - 120	01/07/21 12:58	01/07/21 15:31	1
p-Terphenyl-d14	82	H3	74 - 120	01/07/21 12:58	01/07/21 15:31	1

Client Sample ID: SB-2(2-3)

Lab Sample ID: 590-14419-3

Date Collected: 10/06/20 10:02

Matrix: Solid

Date Received: 12/28/20 10:55

Percent Solids: 90.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND	H3	11		ug/Kg	☼	01/07/21 12:58	01/07/21 16:50	1
2-Methylnaphthalene	ND	H3	11		ug/Kg	☼	01/07/21 12:58	01/07/21 16:50	1
1-Methylnaphthalene	ND	H3	11		ug/Kg	☼	01/07/21 12:58	01/07/21 16:50	1
Acenaphthylene	ND	H3	11		ug/Kg	☼	01/07/21 12:58	01/07/21 16:50	1
Acenaphthene	ND	H3	11		ug/Kg	☼	01/07/21 12:58	01/07/21 16:50	1
Fluorene	ND	H3	11		ug/Kg	☼	01/07/21 12:58	01/07/21 16:50	1
Phenanthrene	ND	H3	11		ug/Kg	☼	01/07/21 12:58	01/07/21 16:50	1
Anthracene	ND	H3	11		ug/Kg	☼	01/07/21 12:58	01/07/21 16:50	1
Fluoranthene	16	H3	11		ug/Kg	☼	01/07/21 12:58	01/07/21 16:50	1
Pyrene	20	H3	11		ug/Kg	☼	01/07/21 12:58	01/07/21 16:50	1
Benzo[a]anthracene	17	H3	11		ug/Kg	☼	01/07/21 12:58	01/07/21 16:50	1
Chrysene	20	H3	11		ug/Kg	☼	01/07/21 12:58	01/07/21 16:50	1
Benzo[b]fluoranthene	31	H3	11		ug/Kg	☼	01/07/21 12:58	01/07/21 16:50	1

Eurofins TestAmerica, Spokane

Client Sample Results

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014004

Job ID: 590-14419-1

Client Sample ID: SB-2(2-3)

Lab Sample ID: 590-14419-3

Date Collected: 10/06/20 10:02

Matrix: Solid

Date Received: 12/28/20 10:55

Percent Solids: 90.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	13	H3	11		ug/Kg	☼	01/07/21 12:58	01/07/21 16:50	1
Benzo[a]pyrene	22	H3	11		ug/Kg	☼	01/07/21 12:58	01/07/21 16:50	1
Indeno[1,2,3-cd]pyrene	17	H3	11		ug/Kg	☼	01/07/21 12:58	01/07/21 16:50	1
Dibenz(a,h)anthracene	ND	H3	11		ug/Kg	☼	01/07/21 12:58	01/07/21 16:50	1
Benzo[g,h,i]perylene	21	H3	11		ug/Kg	☼	01/07/21 12:58	01/07/21 16:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	69		33 - 120				01/07/21 12:58	01/07/21 16:50	1
2-Fluorobiphenyl (Surr)	75		47 - 120				01/07/21 12:58	01/07/21 16:50	1
p-Terphenyl-d14	89		74 - 120				01/07/21 12:58	01/07/21 16:50	1

Method: 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	18	^+	2.3		mg/Kg	☼	01/04/21 09:30	01/05/21 15:30	1

Client Sample ID: SB-3(2-3)

Lab Sample ID: 590-14419-4

Date Collected: 10/06/20 10:32

Matrix: Solid

Date Received: 12/28/20 10:55

Percent Solids: 94.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND	H3	11		ug/Kg	☼	01/07/21 12:58	01/07/21 17:17	1
2-Methylnaphthalene	ND	H3	11		ug/Kg	☼	01/07/21 12:58	01/07/21 17:17	1
1-Methylnaphthalene	ND	H3	11		ug/Kg	☼	01/07/21 12:58	01/07/21 17:17	1
Acenaphthylene	ND	H3	11		ug/Kg	☼	01/07/21 12:58	01/07/21 17:17	1
Acenaphthene	ND	H3	11		ug/Kg	☼	01/07/21 12:58	01/07/21 17:17	1
Fluorene	ND	H3	11		ug/Kg	☼	01/07/21 12:58	01/07/21 17:17	1
Phenanthrene	ND	H3	11		ug/Kg	☼	01/07/21 12:58	01/07/21 17:17	1
Anthracene	ND	H3	11		ug/Kg	☼	01/07/21 12:58	01/07/21 17:17	1
Fluoranthene	21	H3	11		ug/Kg	☼	01/07/21 12:58	01/07/21 17:17	1
Pyrene	27	H3	11		ug/Kg	☼	01/07/21 12:58	01/07/21 17:17	1
Benzo[a]anthracene	18	H3	11		ug/Kg	☼	01/07/21 12:58	01/07/21 17:17	1
Chrysene	22	H3	11		ug/Kg	☼	01/07/21 12:58	01/07/21 17:17	1
Benzo[b]fluoranthene	34	H3	11		ug/Kg	☼	01/07/21 12:58	01/07/21 17:17	1
Benzo[k]fluoranthene	14	H3	11		ug/Kg	☼	01/07/21 12:58	01/07/21 17:17	1
Benzo[a]pyrene	27	H3	11		ug/Kg	☼	01/07/21 12:58	01/07/21 17:17	1
Indeno[1,2,3-cd]pyrene	17	H3	11		ug/Kg	☼	01/07/21 12:58	01/07/21 17:17	1
Dibenz(a,h)anthracene	ND	H3	11		ug/Kg	☼	01/07/21 12:58	01/07/21 17:17	1
Benzo[g,h,i]perylene	23	H3	11		ug/Kg	☼	01/07/21 12:58	01/07/21 17:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	65		33 - 120				01/07/21 12:58	01/07/21 17:17	1
2-Fluorobiphenyl (Surr)	74		47 - 120				01/07/21 12:58	01/07/21 17:17	1
p-Terphenyl-d14	91		74 - 120				01/07/21 12:58	01/07/21 17:17	1

Method: 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	970		23		mg/Kg	☼	01/04/21 09:30	01/06/21 12:43	10

Client Sample Results

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014004

Job ID: 590-14419-1

Client Sample ID: SB-4(1-2)

Date Collected: 10/06/20 09:01

Date Received: 12/28/20 10:55

Lab Sample ID: 590-14419-5

Matrix: Solid

Percent Solids: 93.9

Method: 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	210	^+	2.5		mg/Kg	☼	01/04/21 09:30	01/05/21 15:38	1

Client Sample ID: SB-4(4-5)

Date Collected: 10/06/20 09:04

Date Received: 12/28/20 10:55

Lab Sample ID: 590-14419-6

Matrix: Solid

Percent Solids: 88.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND	H3	11		ug/Kg	☼	01/07/21 12:58	01/07/21 17:43	1
2-Methylnaphthalene	ND	H3	11		ug/Kg	☼	01/07/21 12:58	01/07/21 17:43	1
1-Methylnaphthalene	ND	H3	11		ug/Kg	☼	01/07/21 12:58	01/07/21 17:43	1
Acenaphthylene	ND	H3	11		ug/Kg	☼	01/07/21 12:58	01/07/21 17:43	1
Acenaphthene	13	H3	11		ug/Kg	☼	01/07/21 12:58	01/07/21 17:43	1
Fluorene	ND	H3	11		ug/Kg	☼	01/07/21 12:58	01/07/21 17:43	1
Phenanthrene	95	H3	11		ug/Kg	☼	01/07/21 12:58	01/07/21 17:43	1
Anthracene	20	H3	11		ug/Kg	☼	01/07/21 12:58	01/07/21 17:43	1
Fluoranthene	250	H3	11		ug/Kg	☼	01/07/21 12:58	01/07/21 17:43	1
Pyrene	280	H3	11		ug/Kg	☼	01/07/21 12:58	01/07/21 17:43	1
Benzo[a]anthracene	220	H3	11		ug/Kg	☼	01/07/21 12:58	01/07/21 17:43	1
Chrysene	260	H3	11		ug/Kg	☼	01/07/21 12:58	01/07/21 17:43	1
Benzo[b]fluoranthene	370	H3	11		ug/Kg	☼	01/07/21 12:58	01/07/21 17:43	1
Benzo[k]fluoranthene	120	H3	11		ug/Kg	☼	01/07/21 12:58	01/07/21 17:43	1
Benzo[a]pyrene	320	H3	11		ug/Kg	☼	01/07/21 12:58	01/07/21 17:43	1
Indeno[1,2,3-cd]pyrene	180	H3	11		ug/Kg	☼	01/07/21 12:58	01/07/21 17:43	1
Dibenz(a,h)anthracene	59	H3	11		ug/Kg	☼	01/07/21 12:58	01/07/21 17:43	1
Benzo[g,h,i]perylene	230	H3	11		ug/Kg	☼	01/07/21 12:58	01/07/21 17:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	61		33 - 120	01/07/21 12:58	01/07/21 17:43	1
2-Fluorobiphenyl (Surr)	71		47 - 120	01/07/21 12:58	01/07/21 17:43	1
p-Terphenyl-d14	86		74 - 120	01/07/21 12:58	01/07/21 17:43	1

Client Sample ID: SB-5(2-3)

Date Collected: 10/05/20 16:32

Date Received: 12/28/20 10:55

Lab Sample ID: 590-14419-7

Matrix: Solid

Percent Solids: 89.8

Method: 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	30	^+	2.5		mg/Kg	☼	01/04/21 09:30	01/05/21 15:42	1

Client Sample ID: SB-5(4-5)

Date Collected: 10/05/20 16:34

Date Received: 12/28/20 10:55

Lab Sample ID: 590-14419-8

Matrix: Solid

Percent Solids: 91.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND	H3	54		ug/Kg	☼	01/07/21 12:58	01/07/21 18:09	5
2-Methylnaphthalene	ND	H3	54		ug/Kg	☼	01/07/21 12:58	01/07/21 18:09	5
1-Methylnaphthalene	ND	H3	54		ug/Kg	☼	01/07/21 12:58	01/07/21 18:09	5
Acenaphthylene	ND	H3	54		ug/Kg	☼	01/07/21 12:58	01/07/21 18:09	5
Acenaphthene	420	H3	54		ug/Kg	☼	01/07/21 12:58	01/07/21 18:09	5

Eurofins TestAmerica, Spokane

Client Sample Results

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014004

Job ID: 590-14419-1

Client Sample ID: SB-5(4-5)

Lab Sample ID: 590-14419-8

Date Collected: 10/05/20 16:34

Matrix: Solid

Date Received: 12/28/20 10:55

Percent Solids: 91.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluorene	150	H3	54		ug/Kg	☼	01/07/21 12:58	01/07/21 18:09	5
Phenanthrene	2100	H3	54		ug/Kg	☼	01/07/21 12:58	01/07/21 18:09	5
Anthracene	590	H3	54		ug/Kg	☼	01/07/21 12:58	01/07/21 18:09	5
Fluoranthene	4800	H3	54		ug/Kg	☼	01/07/21 12:58	01/07/21 18:09	5
Pyrene	5300	H3	54		ug/Kg	☼	01/07/21 12:58	01/07/21 18:09	5
Benzo[a]anthracene	4300	H3	54		ug/Kg	☼	01/07/21 12:58	01/07/21 18:09	5
Chrysene	4600	H3	54		ug/Kg	☼	01/07/21 12:58	01/07/21 18:09	5
Benzo[b]fluoranthene	6500	H3	54		ug/Kg	☼	01/07/21 12:58	01/07/21 18:09	5
Benzo[k]fluoranthene	2600	H3	54		ug/Kg	☼	01/07/21 12:58	01/07/21 18:09	5
Benzo[a]pyrene	6300	H3	54		ug/Kg	☼	01/07/21 12:58	01/07/21 18:09	5
Indeno[1,2,3-cd]pyrene	3300	H3	54		ug/Kg	☼	01/07/21 12:58	01/07/21 18:09	5
Dibenz(a,h)anthracene	1100	H3	54		ug/Kg	☼	01/07/21 12:58	01/07/21 18:09	5
Benzo[g,h,i]perylene	4100	H3	54		ug/Kg	☼	01/07/21 12:58	01/07/21 18:09	5
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	69		33 - 120				01/07/21 12:58	01/07/21 18:09	5
2-Fluorobiphenyl (Surr)	84		47 - 120				01/07/21 12:58	01/07/21 18:09	5
p-Terphenyl-d14	89		74 - 120				01/07/21 12:58	01/07/21 18:09	5

Client Sample ID: SB-6(2-3)

Lab Sample ID: 590-14419-9

Date Collected: 10/06/20 10:52

Matrix: Solid

Date Received: 12/28/20 10:55

Percent Solids: 92.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND	H3	11		ug/Kg	☼	01/07/21 12:58	01/07/21 18:35	1
2-Methylnaphthalene	ND	H3	11		ug/Kg	☼	01/07/21 12:58	01/07/21 18:35	1
1-Methylnaphthalene	ND	H3	11		ug/Kg	☼	01/07/21 12:58	01/07/21 18:35	1
Acenaphthylene	ND	H3	11		ug/Kg	☼	01/07/21 12:58	01/07/21 18:35	1
Acenaphthene	ND	H3	11		ug/Kg	☼	01/07/21 12:58	01/07/21 18:35	1
Fluorene	ND	H3	11		ug/Kg	☼	01/07/21 12:58	01/07/21 18:35	1
Phenanthrene	ND	H3	11		ug/Kg	☼	01/07/21 12:58	01/07/21 18:35	1
Anthracene	ND	H3	11		ug/Kg	☼	01/07/21 12:58	01/07/21 18:35	1
Fluoranthene	ND	H3	11		ug/Kg	☼	01/07/21 12:58	01/07/21 18:35	1
Pyrene	ND	H3	11		ug/Kg	☼	01/07/21 12:58	01/07/21 18:35	1
Benzo[a]anthracene	ND	H3	11		ug/Kg	☼	01/07/21 12:58	01/07/21 18:35	1
Chrysene	ND	H3	11		ug/Kg	☼	01/07/21 12:58	01/07/21 18:35	1
Benzo[b]fluoranthene	13	H3	11		ug/Kg	☼	01/07/21 12:58	01/07/21 18:35	1
Benzo[k]fluoranthene	ND	H3	11		ug/Kg	☼	01/07/21 12:58	01/07/21 18:35	1
Benzo[a]pyrene	11	H3	11		ug/Kg	☼	01/07/21 12:58	01/07/21 18:35	1
Indeno[1,2,3-cd]pyrene	ND	H3	11		ug/Kg	☼	01/07/21 12:58	01/07/21 18:35	1
Dibenz(a,h)anthracene	ND	H3	11		ug/Kg	☼	01/07/21 12:58	01/07/21 18:35	1
Benzo[g,h,i]perylene	ND	H3	11		ug/Kg	☼	01/07/21 12:58	01/07/21 18:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	60		33 - 120				01/07/21 12:58	01/07/21 18:35	1
2-Fluorobiphenyl (Surr)	69		47 - 120				01/07/21 12:58	01/07/21 18:35	1
p-Terphenyl-d14	84		74 - 120				01/07/21 12:58	01/07/21 18:35	1

Eurofins TestAmerica, Spokane

Client Sample Results

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014004

Job ID: 590-14419-1

Client Sample ID: SB-6(2-3)

Lab Sample ID: 590-14419-9

Date Collected: 10/06/20 10:52

Matrix: Solid

Date Received: 12/28/20 10:55

Percent Solids: 92.3

Method: 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	25		24		mg/Kg	☆	01/04/21 09:30	01/06/21 13:37	10

Client Sample ID: SB-7(1-2)

Lab Sample ID: 590-14419-10

Date Collected: 10/06/20 11:16

Matrix: Solid

Date Received: 12/28/20 10:55

Percent Solids: 95.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND	H3	10		ug/Kg	☆	01/07/21 12:58	01/07/21 19:01	1
2-Methylnaphthalene	ND	H3	10		ug/Kg	☆	01/07/21 12:58	01/07/21 19:01	1
1-Methylnaphthalene	ND	H3	10		ug/Kg	☆	01/07/21 12:58	01/07/21 19:01	1
Acenaphthylene	ND	H3	10		ug/Kg	☆	01/07/21 12:58	01/07/21 19:01	1
Acenaphthene	ND	H3	10		ug/Kg	☆	01/07/21 12:58	01/07/21 19:01	1
Fluorene	ND	H3	10		ug/Kg	☆	01/07/21 12:58	01/07/21 19:01	1
Phenanthrene	ND	H3	10		ug/Kg	☆	01/07/21 12:58	01/07/21 19:01	1
Anthracene	ND	H3	10		ug/Kg	☆	01/07/21 12:58	01/07/21 19:01	1
Fluoranthene	ND	H3	10		ug/Kg	☆	01/07/21 12:58	01/07/21 19:01	1
Pyrene	ND	H3	10		ug/Kg	☆	01/07/21 12:58	01/07/21 19:01	1
Benzo[a]anthracene	ND	H3	10		ug/Kg	☆	01/07/21 12:58	01/07/21 19:01	1
Chrysene	ND	H3	10		ug/Kg	☆	01/07/21 12:58	01/07/21 19:01	1
Benzo[b]fluoranthene	ND	H3	10		ug/Kg	☆	01/07/21 12:58	01/07/21 19:01	1
Benzo[k]fluoranthene	ND	H3	10		ug/Kg	☆	01/07/21 12:58	01/07/21 19:01	1
Benzo[a]pyrene	ND	H3	10		ug/Kg	☆	01/07/21 12:58	01/07/21 19:01	1
Indeno[1,2,3-cd]pyrene	ND	H3	10		ug/Kg	☆	01/07/21 12:58	01/07/21 19:01	1
Dibenz(a,h)anthracene	ND	H3	10		ug/Kg	☆	01/07/21 12:58	01/07/21 19:01	1
Benzo[g,h,i]perylene	ND	H3	10		ug/Kg	☆	01/07/21 12:58	01/07/21 19:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	68		33 - 120	01/07/21 12:58	01/07/21 19:01	1
2-Fluorobiphenyl (Surr)	78		47 - 120	01/07/21 12:58	01/07/21 19:01	1
p-Terphenyl-d14	89		74 - 120	01/07/21 12:58	01/07/21 19:01	1

Method: 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	14		2.5		mg/Kg	☆	01/04/21 09:30	01/05/21 16:01	1

Client Sample ID: SB-8(2-3)

Lab Sample ID: 590-14419-11

Date Collected: 10/05/20 15:52

Matrix: Solid

Date Received: 12/28/20 10:55

Percent Solids: 86.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	120	H3	57		ug/Kg	☆	01/07/21 12:58	01/07/21 19:28	5
2-Methylnaphthalene	82	H3	57		ug/Kg	☆	01/07/21 12:58	01/07/21 19:28	5
1-Methylnaphthalene	ND	H3	57		ug/Kg	☆	01/07/21 12:58	01/07/21 19:28	5
Acenaphthylene	ND	H3	57		ug/Kg	☆	01/07/21 12:58	01/07/21 19:28	5
Acenaphthene	930	H3	57		ug/Kg	☆	01/07/21 12:58	01/07/21 19:28	5
Fluorene	300	H3	57		ug/Kg	☆	01/07/21 12:58	01/07/21 19:28	5
Phenanthrene	4600	H3	57		ug/Kg	☆	01/07/21 12:58	01/07/21 19:28	5
Anthracene	1200	H3	57		ug/Kg	☆	01/07/21 12:58	01/07/21 19:28	5
Fluoranthene	12000	H3	570		ug/Kg	☆	01/07/21 12:58	01/11/21 11:44	50

Eurofins TestAmerica, Spokane

Client Sample Results

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014004

Job ID: 590-14419-1

Client Sample ID: SB-8(2-3)

Lab Sample ID: 590-14419-11

Date Collected: 10/05/20 15:52

Matrix: Solid

Date Received: 12/28/20 10:55

Percent Solids: 86.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pyrene	14000	H3	570		ug/Kg	☼	01/07/21 12:58	01/11/21 11:44	50
Benzo[a]anthracene	10000	H3	570		ug/Kg	☼	01/07/21 12:58	01/11/21 11:44	50
Chrysene	12000	H3	570		ug/Kg	☼	01/07/21 12:58	01/11/21 11:44	50
Benzo[b]fluoranthene	17000	H3	570		ug/Kg	☼	01/07/21 12:58	01/11/21 11:44	50
Benzo[k]fluoranthene	5500	H3	57		ug/Kg	☼	01/07/21 12:58	01/07/21 19:28	5
Benzo[a]pyrene	17000	H3	570		ug/Kg	☼	01/07/21 12:58	01/11/21 11:44	50
Indeno[1,2,3-cd]pyrene	8700	H3	570		ug/Kg	☼	01/07/21 12:58	01/11/21 11:44	50
Dibenz(a,h)anthracene	2600	H3	57		ug/Kg	☼	01/07/21 12:58	01/07/21 19:28	5
Benzo[g,h,i]perylene	12000	H3	570		ug/Kg	☼	01/07/21 12:58	01/11/21 11:44	50
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	76		33 - 120				01/07/21 12:58	01/07/21 19:28	5
Nitrobenzene-d5	94		33 - 120				01/07/21 12:58	01/11/21 11:44	50
2-Fluorobiphenyl (Surr)	86		47 - 120				01/07/21 12:58	01/07/21 19:28	5
2-Fluorobiphenyl (Surr)	100		47 - 120				01/07/21 12:58	01/11/21 11:44	50
p-Terphenyl-d14	88		74 - 120				01/07/21 12:58	01/07/21 19:28	5
p-Terphenyl-d14	106		74 - 120				01/07/21 12:58	01/11/21 11:44	50

Method: 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	19		2.5		mg/Kg	☼	01/04/21 09:30	01/05/21 16:05	1

Client Sample ID: SB-9(3-4)

Lab Sample ID: 590-14419-12

Date Collected: 10/05/20 15:33

Matrix: Solid

Date Received: 12/28/20 10:55

Percent Solids: 96.4

Method: 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	48		2.2		mg/Kg	☼	01/04/21 09:30	01/05/21 16:09	1

Client Sample ID: SB-9(4-5)

Lab Sample ID: 590-14419-13

Date Collected: 10/05/20 15:34

Matrix: Solid

Date Received: 12/28/20 10:55

Percent Solids: 96.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND	H3	10		ug/Kg	☼	01/07/21 12:58	01/07/21 19:54	1
2-Methylnaphthalene	ND	H3	10		ug/Kg	☼	01/07/21 12:58	01/07/21 19:54	1
1-Methylnaphthalene	ND	H3	10		ug/Kg	☼	01/07/21 12:58	01/07/21 19:54	1
Acenaphthylene	ND	H3	10		ug/Kg	☼	01/07/21 12:58	01/07/21 19:54	1
Acenaphthene	99	H3	10		ug/Kg	☼	01/07/21 12:58	01/07/21 19:54	1
Fluorene	37	H3	10		ug/Kg	☼	01/07/21 12:58	01/07/21 19:54	1
Phenanthrene	630	H3	10		ug/Kg	☼	01/07/21 12:58	01/07/21 19:54	1
Anthracene	150	H3	10		ug/Kg	☼	01/07/21 12:58	01/07/21 19:54	1
Fluoranthene	1200	H3	10		ug/Kg	☼	01/07/21 12:58	01/07/21 19:54	1
Pyrene	1700	H3	100		ug/Kg	☼	01/07/21 12:58	01/11/21 12:10	10
Benzo[a]anthracene	1300	H3	10		ug/Kg	☼	01/07/21 12:58	01/07/21 19:54	1
Chrysene	1400	H3	100		ug/Kg	☼	01/07/21 12:58	01/11/21 12:10	10
Benzo[b]fluoranthene	1700	H3	100		ug/Kg	☼	01/07/21 12:58	01/11/21 12:10	10
Benzo[k]fluoranthene	670	H3	10		ug/Kg	☼	01/07/21 12:58	01/07/21 19:54	1
Benzo[a]pyrene	1900	H3	100		ug/Kg	☼	01/07/21 12:58	01/11/21 12:10	10

Eurofins TestAmerica, Spokane

Client Sample Results

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014004

Job ID: 590-14419-1

Client Sample ID: SB-9(4-5)

Lab Sample ID: 590-14419-13

Date Collected: 10/05/20 15:34

Matrix: Solid

Date Received: 12/28/20 10:55

Percent Solids: 96.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	900	H3	10		ug/Kg	☼	01/07/21 12:58	01/07/21 19:54	1
Dibenz(a,h)anthracene	320	H3	10		ug/Kg	☼	01/07/21 12:58	01/07/21 19:54	1
Benzo[g,h,i]perylene	1200	H3	10		ug/Kg	☼	01/07/21 12:58	01/07/21 19:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	69		33 - 120	01/07/21 12:58	01/07/21 19:54	1
Nitrobenzene-d5	65		33 - 120	01/07/21 12:58	01/11/21 12:10	10
2-Fluorobiphenyl (Surr)	85		47 - 120	01/07/21 12:58	01/07/21 19:54	1
2-Fluorobiphenyl (Surr)	80		47 - 120	01/07/21 12:58	01/11/21 12:10	10
p-Terphenyl-d14	91		74 - 120	01/07/21 12:58	01/07/21 19:54	1
p-Terphenyl-d14	88		74 - 120	01/07/21 12:58	01/11/21 12:10	10

Client Sample ID: SB-10(1-2)

Lab Sample ID: 590-14419-14

Date Collected: 10/06/20 12:21

Matrix: Solid

Date Received: 12/28/20 10:55

Percent Solids: 94.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND	H3	10		ug/Kg	☼	01/07/21 12:58	01/07/21 20:20	1
2-Methylnaphthalene	ND	H3	10		ug/Kg	☼	01/07/21 12:58	01/07/21 20:20	1
1-Methylnaphthalene	ND	H3	10		ug/Kg	☼	01/07/21 12:58	01/07/21 20:20	1
Acenaphthylene	ND	H3	10		ug/Kg	☼	01/07/21 12:58	01/07/21 20:20	1
Acenaphthene	ND	H3	10		ug/Kg	☼	01/07/21 12:58	01/07/21 20:20	1
Fluorene	ND	H3	10		ug/Kg	☼	01/07/21 12:58	01/07/21 20:20	1
Phenanthrene	ND	H3	10		ug/Kg	☼	01/07/21 12:58	01/07/21 20:20	1
Anthracene	ND	H3	10		ug/Kg	☼	01/07/21 12:58	01/07/21 20:20	1
Fluoranthene	ND	H3	10		ug/Kg	☼	01/07/21 12:58	01/07/21 20:20	1
Pyrene	ND	H3	10		ug/Kg	☼	01/07/21 12:58	01/07/21 20:20	1
Benzo[a]anthracene	ND	H3	10		ug/Kg	☼	01/07/21 12:58	01/07/21 20:20	1
Chrysene	ND	H3	10		ug/Kg	☼	01/07/21 12:58	01/07/21 20:20	1
Benzo[b]fluoranthene	ND	H3	10		ug/Kg	☼	01/07/21 12:58	01/07/21 20:20	1
Benzo[k]fluoranthene	ND	H3	10		ug/Kg	☼	01/07/21 12:58	01/07/21 20:20	1
Benzo[a]pyrene	ND	H3	10		ug/Kg	☼	01/07/21 12:58	01/07/21 20:20	1
Indeno[1,2,3-cd]pyrene	ND	H3	10		ug/Kg	☼	01/07/21 12:58	01/07/21 20:20	1
Dibenz(a,h)anthracene	ND	H3	10		ug/Kg	☼	01/07/21 12:58	01/07/21 20:20	1
Benzo[g,h,i]perylene	ND	H3	10		ug/Kg	☼	01/07/21 12:58	01/07/21 20:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	60		33 - 120	01/07/21 12:58	01/07/21 20:20	1
2-Fluorobiphenyl (Surr)	73		47 - 120	01/07/21 12:58	01/07/21 20:20	1
p-Terphenyl-d14	88		74 - 120	01/07/21 12:58	01/07/21 20:20	1

Client Sample ID: SB-11(2-3)

Lab Sample ID: 590-14419-15

Date Collected: 10/06/20 12:42

Matrix: Solid

Date Received: 12/28/20 10:55

Percent Solids: 93.7

Method: 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	100		2.0		mg/Kg	☼	01/04/21 09:30	01/05/21 16:13	1

Eurofins TestAmerica, Spokane

Client Sample Results

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014004

Job ID: 590-14419-1

Client Sample ID: SB-11(1-2)

Lab Sample ID: 590-14419-16

Date Collected: 10/06/20 12:41

Matrix: Solid

Date Received: 12/28/20 10:55

Percent Solids: 92.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND	H3	11		ug/Kg	✱	01/07/21 12:58	01/07/21 20:46	1
2-Methylnaphthalene	ND	H3	11		ug/Kg	✱	01/07/21 12:58	01/07/21 20:46	1
1-Methylnaphthalene	ND	H3	11		ug/Kg	✱	01/07/21 12:58	01/07/21 20:46	1
Acenaphthylene	ND	H3	11		ug/Kg	✱	01/07/21 12:58	01/07/21 20:46	1
Acenaphthene	ND	H3	11		ug/Kg	✱	01/07/21 12:58	01/07/21 20:46	1
Fluorene	ND	H3	11		ug/Kg	✱	01/07/21 12:58	01/07/21 20:46	1
Phenanthrene	ND	H3	11		ug/Kg	✱	01/07/21 12:58	01/07/21 20:46	1
Anthracene	ND	H3	11		ug/Kg	✱	01/07/21 12:58	01/07/21 20:46	1
Fluoranthene	ND	H3	11		ug/Kg	✱	01/07/21 12:58	01/07/21 20:46	1
Pyrene	ND	H3	11		ug/Kg	✱	01/07/21 12:58	01/07/21 20:46	1
Benzo[a]anthracene	ND	H3	11		ug/Kg	✱	01/07/21 12:58	01/07/21 20:46	1
Chrysene	ND	H3	11		ug/Kg	✱	01/07/21 12:58	01/07/21 20:46	1
Benzo[b]fluoranthene	ND	H3	11		ug/Kg	✱	01/07/21 12:58	01/07/21 20:46	1
Benzo[k]fluoranthene	ND	H3	11		ug/Kg	✱	01/07/21 12:58	01/07/21 20:46	1
Benzo[a]pyrene	ND	H3	11		ug/Kg	✱	01/07/21 12:58	01/07/21 20:46	1
Indeno[1,2,3-cd]pyrene	ND	H3	11		ug/Kg	✱	01/07/21 12:58	01/07/21 20:46	1
Dibenz(a,h)anthracene	ND	H3	11		ug/Kg	✱	01/07/21 12:58	01/07/21 20:46	1
Benzo[g,h,i]perylene	ND	H3	11		ug/Kg	✱	01/07/21 12:58	01/07/21 20:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	57		33 - 120	01/07/21 12:58	01/07/21 20:46	1
2-Fluorobiphenyl (Surr)	67		47 - 120	01/07/21 12:58	01/07/21 20:46	1
p-Terphenyl-d14	89		74 - 120	01/07/21 12:58	01/07/21 20:46	1

Client Sample ID: SB-12(3-4)

Lab Sample ID: 590-14419-17

Date Collected: 10/05/20 15:18

Matrix: Solid

Date Received: 12/28/20 10:55

Percent Solids: 94.7

Method: 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	26		1.7		mg/Kg	✱	01/04/21 09:30	01/05/21 16:17	1

Client Sample ID: SB-12(4-5)

Lab Sample ID: 590-14419-18

Date Collected: 10/05/20 15:19

Matrix: Solid

Date Received: 12/28/20 10:55

Percent Solids: 98.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND	H3	9.9		ug/Kg	✱	01/07/21 12:58	01/07/21 21:12	1
2-Methylnaphthalene	ND	H3	9.9		ug/Kg	✱	01/07/21 12:58	01/07/21 21:12	1
1-Methylnaphthalene	ND	H3	9.9		ug/Kg	✱	01/07/21 12:58	01/07/21 21:12	1
Acenaphthylene	ND	H3	9.9		ug/Kg	✱	01/07/21 12:58	01/07/21 21:12	1
Acenaphthene	47	H3	9.9		ug/Kg	✱	01/07/21 12:58	01/07/21 21:12	1
Fluorene	18	H3	9.9		ug/Kg	✱	01/07/21 12:58	01/07/21 21:12	1
Phenanthrene	260	H3	9.9		ug/Kg	✱	01/07/21 12:58	01/07/21 21:12	1
Anthracene	67	H3	9.9		ug/Kg	✱	01/07/21 12:58	01/07/21 21:12	1
Fluoranthene	690	H3	9.9		ug/Kg	✱	01/07/21 12:58	01/07/21 21:12	1
Pyrene	740	H3	9.9		ug/Kg	✱	01/07/21 12:58	01/07/21 21:12	1
Benzo[a]anthracene	590	H3	9.9		ug/Kg	✱	01/07/21 12:58	01/07/21 21:12	1
Chrysene	690	H3	9.9		ug/Kg	✱	01/07/21 12:58	01/07/21 21:12	1
Benzo[b]fluoranthene	990	H3	9.9		ug/Kg	✱	01/07/21 12:58	01/07/21 21:12	1

Eurofins TestAmerica, Spokane

Client Sample Results

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014004

Job ID: 590-14419-1

Client Sample ID: SB-12(4-5)

Lab Sample ID: 590-14419-18

Date Collected: 10/05/20 15:19

Matrix: Solid

Date Received: 12/28/20 10:55

Percent Solids: 98.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	370	H3	9.9		ug/Kg	☼	01/07/21 12:58	01/07/21 21:12	1
Benzo[a]pyrene	900	H3	9.9		ug/Kg	☼	01/07/21 12:58	01/07/21 21:12	1
Indeno[1,2,3-cd]pyrene	470	H3	9.9		ug/Kg	☼	01/07/21 12:58	01/07/21 21:12	1
Dibenz(a,h)anthracene	150	H3	9.9		ug/Kg	☼	01/07/21 12:58	01/07/21 21:12	1
Benzo[g,h,i]perylene	590	H3	9.9		ug/Kg	☼	01/07/21 12:58	01/07/21 21:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	55		33 - 120	01/07/21 12:58	01/07/21 21:12	1
2-Fluorobiphenyl (Surr)	69		47 - 120	01/07/21 12:58	01/07/21 21:12	1
p-Terphenyl-d14	91		74 - 120	01/07/21 12:58	01/07/21 21:12	1

Client Sample ID: SB-13(1-2)

Lab Sample ID: 590-14419-19

Date Collected: 10/05/20 14:41

Matrix: Solid

Date Received: 12/28/20 10:55

Percent Solids: 96.8

Method: 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	13		1.9		mg/Kg	☼	01/04/21 09:30	01/05/21 16:21	1

Client Sample ID: SB-13(3-4)

Lab Sample ID: 590-14419-20

Date Collected: 10/05/20 14:43

Matrix: Solid

Date Received: 12/28/20 10:55

Percent Solids: 96.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND	H3	9.9		ug/Kg	☼	01/07/21 12:58	01/07/21 21:38	1
2-Methylnaphthalene	ND	H3	9.9		ug/Kg	☼	01/07/21 12:58	01/07/21 21:38	1
1-Methylnaphthalene	ND	H3	9.9		ug/Kg	☼	01/07/21 12:58	01/07/21 21:38	1
Acenaphthylene	ND	H3	9.9		ug/Kg	☼	01/07/21 12:58	01/07/21 21:38	1
Acenaphthene	ND	H3	9.9		ug/Kg	☼	01/07/21 12:58	01/07/21 21:38	1
Fluorene	ND	H3	9.9		ug/Kg	☼	01/07/21 12:58	01/07/21 21:38	1
Phenanthrene	41	H3	9.9		ug/Kg	☼	01/07/21 12:58	01/07/21 21:38	1
Anthracene	10	H3	9.9		ug/Kg	☼	01/07/21 12:58	01/07/21 21:38	1
Fluoranthene	96	H3	9.9		ug/Kg	☼	01/07/21 12:58	01/07/21 21:38	1
Pyrene	120	H3	9.9		ug/Kg	☼	01/07/21 12:58	01/07/21 21:38	1
Benzo[a]anthracene	92	H3	9.9		ug/Kg	☼	01/07/21 12:58	01/07/21 21:38	1
Chrysene	110	H3	9.9		ug/Kg	☼	01/07/21 12:58	01/07/21 21:38	1
Benzo[b]fluoranthene	150	H3	9.9		ug/Kg	☼	01/07/21 12:58	01/07/21 21:38	1
Benzo[k]fluoranthene	52	H3	9.9		ug/Kg	☼	01/07/21 12:58	01/07/21 21:38	1
Benzo[a]pyrene	130	H3	9.9		ug/Kg	☼	01/07/21 12:58	01/07/21 21:38	1
Indeno[1,2,3-cd]pyrene	69	H3	9.9		ug/Kg	☼	01/07/21 12:58	01/07/21 21:38	1
Dibenz(a,h)anthracene	24	H3	9.9		ug/Kg	☼	01/07/21 12:58	01/07/21 21:38	1
Benzo[g,h,i]perylene	96	H3	9.9		ug/Kg	☼	01/07/21 12:58	01/07/21 21:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	65		33 - 120	01/07/21 12:58	01/07/21 21:38	1
2-Fluorobiphenyl (Surr)	75		47 - 120	01/07/21 12:58	01/07/21 21:38	1
p-Terphenyl-d14	91		74 - 120	01/07/21 12:58	01/07/21 21:38	1

Eurofins TestAmerica, Spokane

Client Sample Results

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014004

Job ID: 590-14419-1

Client Sample ID: SB-14(1-2)

Date Collected: 10/06/20 13:01

Date Received: 12/28/20 10:55

Lab Sample ID: 590-14419-21

Matrix: Solid

Percent Solids: 92.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND	H3	11		ug/Kg	☼	01/07/21 12:58	01/07/21 22:04	1
2-Methylnaphthalene	ND	H3	11		ug/Kg	☼	01/07/21 12:58	01/07/21 22:04	1
1-Methylnaphthalene	ND	H3	11		ug/Kg	☼	01/07/21 12:58	01/07/21 22:04	1
Acenaphthylene	ND	H3	11		ug/Kg	☼	01/07/21 12:58	01/07/21 22:04	1
Acenaphthene	ND	H3	11		ug/Kg	☼	01/07/21 12:58	01/07/21 22:04	1
Fluorene	ND	H3	11		ug/Kg	☼	01/07/21 12:58	01/07/21 22:04	1
Phenanthrene	ND	H3	11		ug/Kg	☼	01/07/21 12:58	01/07/21 22:04	1
Anthracene	ND	H3	11		ug/Kg	☼	01/07/21 12:58	01/07/21 22:04	1
Fluoranthene	24	H3	11		ug/Kg	☼	01/07/21 12:58	01/07/21 22:04	1
Pyrene	31	H3	11		ug/Kg	☼	01/07/21 12:58	01/07/21 22:04	1
Benzo[a]anthracene	19	H3	11		ug/Kg	☼	01/07/21 12:58	01/07/21 22:04	1
Chrysene	25	H3	11		ug/Kg	☼	01/07/21 12:58	01/07/21 22:04	1
Benzo[b]fluoranthene	34	H3	11		ug/Kg	☼	01/07/21 12:58	01/07/21 22:04	1
Benzo[k]fluoranthene	14	H3	11		ug/Kg	☼	01/07/21 12:58	01/07/21 22:04	1
Benzo[a]pyrene	29	H3	11		ug/Kg	☼	01/07/21 12:58	01/07/21 22:04	1
Indeno[1,2,3-cd]pyrene	17	H3	11		ug/Kg	☼	01/07/21 12:58	01/07/21 22:04	1
Dibenz(a,h)anthracene	ND	H3	11		ug/Kg	☼	01/07/21 12:58	01/07/21 22:04	1
Benzo[g,h,i]perylene	21	H3	11		ug/Kg	☼	01/07/21 12:58	01/07/21 22:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	68		33 - 120	01/07/21 12:58	01/07/21 22:04	1
2-Fluorobiphenyl (Surr)	79		47 - 120	01/07/21 12:58	01/07/21 22:04	1
p-Terphenyl-d14	92		74 - 120	01/07/21 12:58	01/07/21 22:04	1

Method: 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	140		2.0		mg/Kg	☼	01/04/21 09:30	01/05/21 16:24	1

Client Sample ID: SB-15(2-3)

Date Collected: 10/06/20 13:12

Date Received: 12/28/20 10:55

Lab Sample ID: 590-14419-22

Matrix: Solid

Percent Solids: 96.0

Method: 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	18		2.4		mg/Kg	☼	01/04/21 09:30	01/05/21 16:28	1

Client Sample ID: SB-16(1-2)

Date Collected: 10/05/20 14:11

Date Received: 12/28/20 10:55

Lab Sample ID: 590-14419-23

Matrix: Solid

Percent Solids: 93.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	15	H3	10		ug/Kg	☼	01/07/21 12:58	01/07/21 22:30	1
2-Methylnaphthalene	14	H3	10		ug/Kg	☼	01/07/21 12:58	01/07/21 22:30	1
1-Methylnaphthalene	10	H3	10		ug/Kg	☼	01/07/21 12:58	01/07/21 22:30	1
Acenaphthylene	ND	H3	10		ug/Kg	☼	01/07/21 12:58	01/07/21 22:30	1
Acenaphthene	150	H3	10		ug/Kg	☼	01/07/21 12:58	01/07/21 22:30	1
Fluorene	55	H3	10		ug/Kg	☼	01/07/21 12:58	01/07/21 22:30	1
Phenanthrene	900	H3	10		ug/Kg	☼	01/07/21 12:58	01/07/21 22:30	1
Anthracene	190	H3	10		ug/Kg	☼	01/07/21 12:58	01/07/21 22:30	1
Fluoranthene	2100	H3	100		ug/Kg	☼	01/07/21 12:58	01/11/21 12:36	10

Eurofins TestAmerica, Spokane

Client Sample Results

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014004

Job ID: 590-14419-1

Client Sample ID: SB-16(1-2)

Lab Sample ID: 590-14419-23

Date Collected: 10/05/20 14:11

Matrix: Solid

Date Received: 12/28/20 10:55

Percent Solids: 93.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pyrene	2400	H3	100		ug/Kg	☼	01/07/21 12:58	01/11/21 12:36	10
Benzo[a]anthracene	1900	H3	100		ug/Kg	☼	01/07/21 12:58	01/11/21 12:36	10
Chrysene	2300	H3	100		ug/Kg	☼	01/07/21 12:58	01/11/21 12:36	10
Benzo[b]fluoranthene	3200	H3	100		ug/Kg	☼	01/07/21 12:58	01/11/21 12:36	10
Benzo[k]fluoranthene	1300	H3	10		ug/Kg	☼	01/07/21 12:58	01/07/21 22:30	1
Benzo[a]pyrene	2800	H3	100		ug/Kg	☼	01/07/21 12:58	01/11/21 12:36	10
Indeno[1,2,3-cd]pyrene	1500	H3	100		ug/Kg	☼	01/07/21 12:58	01/11/21 12:36	10
Dibenz(a,h)anthracene	480	H3	10		ug/Kg	☼	01/07/21 12:58	01/07/21 22:30	1
Benzo[g,h,i]perylene	2000	H3	100		ug/Kg	☼	01/07/21 12:58	01/11/21 12:36	10
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	70		33 - 120				01/07/21 12:58	01/07/21 22:30	1
Nitrobenzene-d5	68		33 - 120				01/07/21 12:58	01/11/21 12:36	10
2-Fluorobiphenyl (Surr)	90		47 - 120				01/07/21 12:58	01/07/21 22:30	1
2-Fluorobiphenyl (Surr)	87		47 - 120				01/07/21 12:58	01/11/21 12:36	10
p-Terphenyl-d14	93		74 - 120				01/07/21 12:58	01/07/21 22:30	1
p-Terphenyl-d14	93		74 - 120				01/07/21 12:58	01/11/21 12:36	10

Method: 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	16		2.3		mg/Kg	☼	01/04/21 09:30	01/05/21 16:32	1

Client Sample ID: SB-17(2-3)

Lab Sample ID: 590-14419-24

Date Collected: 10/05/20 13:32

Matrix: Solid

Date Received: 12/28/20 10:55

Percent Solids: 95.9

Method: 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	18		2.0		mg/Kg	☼	01/04/21 09:30	01/05/21 16:36	1

Client Sample ID: SB-17(4-5)

Lab Sample ID: 590-14419-25

Date Collected: 10/05/20 13:34

Matrix: Solid

Date Received: 12/28/20 10:55

Percent Solids: 95.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND	H3	10		ug/Kg	☼	01/07/21 12:58	01/07/21 22:57	1
2-Methylnaphthalene	ND	H3	10		ug/Kg	☼	01/07/21 12:58	01/07/21 22:57	1
1-Methylnaphthalene	ND	H3	10		ug/Kg	☼	01/07/21 12:58	01/07/21 22:57	1
Acenaphthylene	ND	H3	10		ug/Kg	☼	01/07/21 12:58	01/07/21 22:57	1
Acenaphthene	ND	H3	10		ug/Kg	☼	01/07/21 12:58	01/07/21 22:57	1
Fluorene	ND	H3	10		ug/Kg	☼	01/07/21 12:58	01/07/21 22:57	1
Phenanthrene	10	H3	10		ug/Kg	☼	01/07/21 12:58	01/07/21 22:57	1
Anthracene	ND	H3	10		ug/Kg	☼	01/07/21 12:58	01/07/21 22:57	1
Fluoranthene	31	H3	10		ug/Kg	☼	01/07/21 12:58	01/07/21 22:57	1
Pyrene	40	H3	10		ug/Kg	☼	01/07/21 12:58	01/07/21 22:57	1
Benzo[a]anthracene	30	H3	10		ug/Kg	☼	01/07/21 12:58	01/07/21 22:57	1
Chrysene	38	H3	10		ug/Kg	☼	01/07/21 12:58	01/07/21 22:57	1
Benzo[b]fluoranthene	53	H3	10		ug/Kg	☼	01/07/21 12:58	01/07/21 22:57	1
Benzo[k]fluoranthene	22	H3	10		ug/Kg	☼	01/07/21 12:58	01/07/21 22:57	1
Benzo[a]pyrene	47	H3	10		ug/Kg	☼	01/07/21 12:58	01/07/21 22:57	1

Eurofins TestAmerica, Spokane

Client Sample Results

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014004

Job ID: 590-14419-1

Client Sample ID: SB-17(4-5)

Lab Sample ID: 590-14419-25

Date Collected: 10/05/20 13:34

Matrix: Solid

Date Received: 12/28/20 10:55

Percent Solids: 95.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	27	H3	10		ug/Kg	☼	01/07/21 12:58	01/07/21 22:57	1
Dibenz(a,h)anthracene	ND	H3	10		ug/Kg	☼	01/07/21 12:58	01/07/21 22:57	1
Benzo[g,h,i]perylene	33	H3	10		ug/Kg	☼	01/07/21 12:58	01/07/21 22:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	66		33 - 120	01/07/21 12:58	01/07/21 22:57	1
2-Fluorobiphenyl (Surr)	76		47 - 120	01/07/21 12:58	01/07/21 22:57	1
p-Terphenyl-d14	94		74 - 120	01/07/21 12:58	01/07/21 22:57	1

QC Sample Results

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014004

Job ID: 590-14419-1

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

Lab Sample ID: MB 590-30191/1-A
Matrix: Solid
Analysis Batch: 30189

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 30191

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		10		ug/Kg		01/07/21 12:58	01/07/21 14:39	1
2-Methylnaphthalene	ND		10		ug/Kg		01/07/21 12:58	01/07/21 14:39	1
1-Methylnaphthalene	ND		10		ug/Kg		01/07/21 12:58	01/07/21 14:39	1
Acenaphthylene	ND		10		ug/Kg		01/07/21 12:58	01/07/21 14:39	1
Acenaphthene	ND		10		ug/Kg		01/07/21 12:58	01/07/21 14:39	1
Fluorene	ND		10		ug/Kg		01/07/21 12:58	01/07/21 14:39	1
Phenanthrene	ND		10		ug/Kg		01/07/21 12:58	01/07/21 14:39	1
Anthracene	ND		10		ug/Kg		01/07/21 12:58	01/07/21 14:39	1
Fluoranthene	ND		10		ug/Kg		01/07/21 12:58	01/07/21 14:39	1
Pyrene	ND		10		ug/Kg		01/07/21 12:58	01/07/21 14:39	1
Benzo[a]anthracene	ND		10		ug/Kg		01/07/21 12:58	01/07/21 14:39	1
Chrysene	ND		10		ug/Kg		01/07/21 12:58	01/07/21 14:39	1
Benzo[b]fluoranthene	ND		10		ug/Kg		01/07/21 12:58	01/07/21 14:39	1
Benzo[k]fluoranthene	ND		10		ug/Kg		01/07/21 12:58	01/07/21 14:39	1
Benzo[a]pyrene	ND		10		ug/Kg		01/07/21 12:58	01/07/21 14:39	1
Indeno[1,2,3-cd]pyrene	ND		10		ug/Kg		01/07/21 12:58	01/07/21 14:39	1
Dibenz(a,h)anthracene	ND		10		ug/Kg		01/07/21 12:58	01/07/21 14:39	1
Benzo[g,h,i]perylene	ND		10		ug/Kg		01/07/21 12:58	01/07/21 14:39	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	68		33 - 120	01/07/21 12:58	01/07/21 14:39	1
2-Fluorobiphenyl (Surr)	77		47 - 120	01/07/21 12:58	01/07/21 14:39	1
p-Terphenyl-d14	100		74 - 120	01/07/21 12:58	01/07/21 14:39	1

Lab Sample ID: LCS 590-30191/2-A
Matrix: Solid
Analysis Batch: 30189

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 30191

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Naphthalene	267	229		ug/Kg		86	45 - 120
2-Methylnaphthalene	267	245		ug/Kg		92	48 - 120
1-Methylnaphthalene	267	236		ug/Kg		89	44 - 120
Acenaphthylene	267	236		ug/Kg		88	52 - 120
Acenaphthene	267	264		ug/Kg		99	53 - 120
Fluorene	267	271		ug/Kg		102	55 - 120
Phenanthrene	267	291		ug/Kg		109	57 - 121
Anthracene	267	284		ug/Kg		107	60 - 120
Fluoranthene	267	283		ug/Kg		106	63 - 127
Pyrene	267	329		ug/Kg		124	61 - 125
Benzo[a]anthracene	267	321		ug/Kg		121	61 - 131
Chrysene	267	315		ug/Kg		118	67 - 127
Benzo[b]fluoranthene	267	320		ug/Kg		120	61 - 127
Benzo[k]fluoranthene	267	306		ug/Kg		115	63 - 127
Benzo[a]pyrene	267	306		ug/Kg		115	60 - 126
Indeno[1,2,3-cd]pyrene	267	299		ug/Kg		112	63 - 128
Dibenz(a,h)anthracene	267	294		ug/Kg		110	60 - 121
Benzo[g,h,i]perylene	267	304		ug/Kg		114	58 - 129

Eurofins TestAmerica, Spokane

QC Sample Results

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014004

Job ID: 590-14419-1

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

Lab Sample ID: LCS 590-30191/2-A
Matrix: Solid
Analysis Batch: 30189

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 30191

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
Nitrobenzene-d5	82		33 - 120
2-Fluorobiphenyl (Surr)	86		47 - 120
p-Terphenyl-d14	99		74 - 120

Lab Sample ID: 590-14419-2 MS
Matrix: Solid
Analysis Batch: 30189

Client Sample ID: SB-1(2-3)
Prep Type: Total/NA
Prep Batch: 30191

Analyte	Sample		Spike Added	MS MS		Unit	D	%Rec	%Rec.	
	Result	Qualifier		Result	Qualifier				Limits	
Naphthalene	ND	H3	281	217		ug/Kg	☼	77	45 - 120	
2-Methylnaphthalene	ND	H3	281	233		ug/Kg	☼	83	48 - 120	
1-Methylnaphthalene	ND	H3	281	241		ug/Kg	☼	86	44 - 120	
Acenaphthylene	ND	H3	281	253		ug/Kg	☼	90	52 - 120	
Acenaphthene	ND	H3	281	305		ug/Kg	☼	105	53 - 120	
Fluorene	ND	H3	281	280		ug/Kg	☼	99	55 - 120	
Phenanthrene	58	H3	281	346		ug/Kg	☼	103	57 - 121	
Anthracene	12	H3	281	282		ug/Kg	☼	96	60 - 120	
Fluoranthene	160	H3	281	461		ug/Kg	☼	108	63 - 127	
Pyrene	190	H3	281	523		ug/Kg	☼	118	61 - 125	
Benzo[a]anthracene	140	H3	281	477		ug/Kg	☼	119	61 - 131	
Chrysene	180	H3	281	492		ug/Kg	☼	112	67 - 127	
Benzo[b]fluoranthene	280	H3	281	588		ug/Kg	☼	112	61 - 127	
Benzo[k]fluoranthene	99	H3	281	420		ug/Kg	☼	114	63 - 127	
Benzo[a]pyrene	240	H3	281	560		ug/Kg	☼	114	60 - 126	
Indeno[1,2,3-cd]pyrene	140	H3	281	451		ug/Kg	☼	111	63 - 128	
Dibenz(a,h)anthracene	46	H3	281	337		ug/Kg	☼	104	60 - 121	
Benzo[g,h,i]perylene	190	H3	281	490		ug/Kg	☼	108	58 - 129	

Surrogate	MS MS		Limits
	%Recovery	Qualifier	
Nitrobenzene-d5	77		33 - 120
2-Fluorobiphenyl (Surr)	85		47 - 120
p-Terphenyl-d14	86		74 - 120

Lab Sample ID: 590-14419-2 MSD
Matrix: Solid
Analysis Batch: 30189

Client Sample ID: SB-1(2-3)
Prep Type: Total/NA
Prep Batch: 30191

Analyte	Sample		Spike Added	MSD MSD		Unit	D	%Rec	%Rec.		RPD	
	Result	Qualifier		Result	Qualifier				Limits	RPD	Limit	
Naphthalene	ND	H3	280	204		ug/Kg	☼	73	45 - 120	6	20	
2-Methylnaphthalene	ND	H3	280	219		ug/Kg	☼	78	48 - 120	6	20	
1-Methylnaphthalene	ND	H3	280	218		ug/Kg	☼	78	44 - 120	10	14	
Acenaphthylene	ND	H3	280	236		ug/Kg	☼	84	52 - 120	7	20	
Acenaphthene	ND	H3	280	287		ug/Kg	☼	99	53 - 120	6	11	
Fluorene	ND	H3	280	268		ug/Kg	☼	94	55 - 120	5	21	
Phenanthrene	58	H3	280	329		ug/Kg	☼	97	57 - 121	5	18	
Anthracene	12	H3	280	284		ug/Kg	☼	97	60 - 120	1	18	
Fluoranthene	160	H3	280	426		ug/Kg	☼	96	63 - 127	8	18	
Pyrene	190	H3	280	489		ug/Kg	☼	106	61 - 125	7	26	

Eurofins TestAmerica, Spokane

QC Sample Results

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014004

Job ID: 590-14419-1

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

Lab Sample ID: 590-14419-2 MSD
Matrix: Solid
Analysis Batch: 30189

Client Sample ID: SB-1(2-3)
Prep Type: Total/NA
Prep Batch: 30191

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier		Result	Qualifier						
Benzo[a]anthracene	140	H3	280	460		ug/Kg	⊛	113	61 - 131	4	16
Chrysene	180	H3	280	451		ug/Kg	⊛	97	67 - 127	9	15
Benzo[b]fluoranthene	280	H3	280	547		ug/Kg	⊛	97	61 - 127	7	16
Benzo[k]fluoranthene	99	H3	280	397		ug/Kg	⊛	106	63 - 127	6	16
Benzo[a]pyrene	240	H3	280	533		ug/Kg	⊛	105	60 - 126	5	20
Indeno[1,2,3-cd]pyrene	140	H3	280	431		ug/Kg	⊛	104	63 - 128	5	18
Dibenz(a,h)anthracene	46	H3	280	328		ug/Kg	⊛	101	60 - 121	3	18
Benzo[g,h,i]perylene	190	H3	280	477		ug/Kg	⊛	104	58 - 129	3	17
Surrogate	MSD	MSD									
	%Recovery	Qualifier	Limits								
Nitrobenzene-d5	69		33 - 120								
2-Fluorobiphenyl (Surr)	78		47 - 120								
p-Terphenyl-d14	87		74 - 120								

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 590-30159/2-A
Matrix: Solid
Analysis Batch: 30185

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 30159

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Lead	ND		3.0		mg/Kg		01/04/21 09:30	01/06/21 12:16	1

Lab Sample ID: LCS 590-30159/1-A
Matrix: Solid
Analysis Batch: 30185

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 30159

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

Lab Sample ID: 590-14419-1 MS
Matrix: Solid
Analysis Batch: 30185

Client Sample ID: SB-1(1-2)
Prep Type: Total/NA
Prep Batch: 30159

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.	Limits
	Result	Qualifier		Result	Qualifier					
Lead	110		53.5	177		mg/Kg	⊛	124	75 - 125	

Lab Sample ID: 590-14419-1 MSD
Matrix: Solid
Analysis Batch: 30185

Client Sample ID: SB-1(1-2)
Prep Type: Total/NA
Prep Batch: 30159

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier		Result	Qualifier						
Lead	110		53.5	161		mg/Kg	⊛	94	75 - 125	9	20

Lab Sample ID: 590-14419-1 DU
Matrix: Solid
Analysis Batch: 30185

Client Sample ID: SB-1(1-2)
Prep Type: Total/NA
Prep Batch: 30159

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier		Result				
Lead	110		120		mg/Kg	⊛	8	20

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Lab Chronicle

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014004

Job ID: 590-14419-1

Client Sample ID: SB-1(1-2)

Lab Sample ID: 590-14419-1

Date Collected: 10/06/20 09:51

Matrix: Solid

Date Received: 12/28/20 10:55

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			30150	12/31/20 09:21	AMB	TAL SPK

Client Sample ID: SB-1(1-2)

Lab Sample ID: 590-14419-1

Date Collected: 10/06/20 09:51

Matrix: Solid

Date Received: 12/28/20 10:55

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	3050B			1.42 g	50 mL	30159	01/04/21 09:30	AMB	TAL SPK
Total/NA	Analysis	6010D		1			30185	01/06/21 12:20	AMB	TAL SPK

Client Sample ID: SB-1(2-3)

Lab Sample ID: 590-14419-2

Date Collected: 10/06/20 09:52

Matrix: Solid

Date Received: 12/28/20 10:55

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			30150	12/31/20 09:21	AMB	TAL SPK

Client Sample ID: SB-1(2-3)

Lab Sample ID: 590-14419-2

Date Collected: 10/06/20 09:52

Matrix: Solid

Date Received: 12/28/20 10:55

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	3550C			15.12 g	2 mL	30191	01/07/21 12:58	NMI	TAL SPK
Total/NA	Analysis	8270E SIM		1			30189	01/07/21 15:31	NMI	TAL SPK

Client Sample ID: SB-2(2-3)

Lab Sample ID: 590-14419-3

Date Collected: 10/06/20 10:02

Matrix: Solid

Date Received: 12/28/20 10:55

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			30150	12/31/20 09:21	AMB	TAL SPK

Client Sample ID: SB-2(2-3)

Lab Sample ID: 590-14419-3

Date Collected: 10/06/20 10:02

Matrix: Solid

Date Received: 12/28/20 10:55

Percent Solids: 90.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			15.45 g	2 mL	30191	01/07/21 12:58	NMI	TAL SPK
Total/NA	Analysis	8270E SIM		1			30189	01/07/21 16:50	NMI	TAL SPK
Total/NA	Prep	3050B			1.45 g	50 mL	30159	01/04/21 09:30	AMB	TAL SPK
Total/NA	Analysis	6010D		1			30176	01/05/21 15:30	AMB	TAL SPK

Lab Chronicle

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014004

Job ID: 590-14419-1

Client Sample ID: SB-3(2-3)

Date Collected: 10/06/20 10:32

Date Received: 12/28/20 10:55

Lab Sample ID: 590-14419-4

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			30150	12/31/20 09:21	AMB	TAL SPK

Client Sample ID: SB-3(2-3)

Date Collected: 10/06/20 10:32

Date Received: 12/28/20 10:55

Lab Sample ID: 590-14419-4

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	3550C			15.07 g	2 mL	30191	01/07/21 12:58	NMI	TAL SPK
Total/NA	Analysis	8270E SIM		1			30189	01/07/21 17:17	NMI	TAL SPK
Total/NA	Prep	3050B			1.39 g	50 mL	30159	01/04/21 09:30	AMB	TAL SPK
Total/NA	Analysis	6010D		10			30185	01/06/21 12:43	AMB	TAL SPK

Client Sample ID: SB-4(1-2)

Date Collected: 10/06/20 09:01

Date Received: 12/28/20 10:55

Lab Sample ID: 590-14419-5

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			30150	12/31/20 09:21	AMB	TAL SPK

Client Sample ID: SB-4(1-2)

Date Collected: 10/06/20 09:01

Date Received: 12/28/20 10:55

Lab Sample ID: 590-14419-5

Matrix: Solid

Percent Solids: 93.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			1.30 g	50 mL	30159	01/04/21 09:30	AMB	TAL SPK
Total/NA	Analysis	6010D		1			30176	01/05/21 15:38	AMB	TAL SPK

Client Sample ID: SB-4(4-5)

Date Collected: 10/06/20 09:04

Date Received: 12/28/20 10:55

Lab Sample ID: 590-14419-6

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			30150	12/31/20 09:21	AMB	TAL SPK

Client Sample ID: SB-4(4-5)

Date Collected: 10/06/20 09:04

Date Received: 12/28/20 10:55

Lab Sample ID: 590-14419-6

Matrix: Solid

Percent Solids: 88.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			15.32 g	2 mL	30191	01/07/21 12:58	NMI	TAL SPK
Total/NA	Analysis	8270E SIM		1			30189	01/07/21 17:43	NMI	TAL SPK

Lab Chronicle

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014004

Job ID: 590-14419-1

Client Sample ID: SB-5(2-3)

Lab Sample ID: 590-14419-7

Date Collected: 10/05/20 16:32

Matrix: Solid

Date Received: 12/28/20 10:55

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			30150	12/31/20 09:21	AMB	TAL SPK

Client Sample ID: SB-5(2-3)

Lab Sample ID: 590-14419-7

Date Collected: 10/05/20 16:32

Matrix: Solid

Date Received: 12/28/20 10:55

Percent Solids: 89.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			1.36 g	50 mL	30159	01/04/21 09:30	AMB	TAL SPK
Total/NA	Analysis	6010D		1			30176	01/05/21 15:42	AMB	TAL SPK

Client Sample ID: SB-5(4-5)

Lab Sample ID: 590-14419-8

Date Collected: 10/05/20 16:34

Matrix: Solid

Date Received: 12/28/20 10:55

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			30150	12/31/20 09:21	AMB	TAL SPK

Client Sample ID: SB-5(4-5)

Lab Sample ID: 590-14419-8

Date Collected: 10/05/20 16:34

Matrix: Solid

Date Received: 12/28/20 10:55

Percent Solids: 91.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			15.11 g	2 mL	30191	01/07/21 12:58	NMI	TAL SPK
Total/NA	Analysis	8270E SIM		5			30189	01/07/21 18:09	NMI	TAL SPK

Client Sample ID: SB-6(2-3)

Lab Sample ID: 590-14419-9

Date Collected: 10/06/20 10:52

Matrix: Solid

Date Received: 12/28/20 10:55

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			30150	12/31/20 09:21	AMB	TAL SPK

Client Sample ID: SB-6(2-3)

Lab Sample ID: 590-14419-9

Date Collected: 10/06/20 10:52

Matrix: Solid

Date Received: 12/28/20 10:55

Percent Solids: 92.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			15.40 g	2 mL	30191	01/07/21 12:58	NMI	TAL SPK
Total/NA	Analysis	8270E SIM		1			30189	01/07/21 18:35	NMI	TAL SPK
Total/NA	Prep	3050B			1.38 g	50 mL	30159	01/04/21 09:30	AMB	TAL SPK
Total/NA	Analysis	6010D		10			30185	01/06/21 13:37	AMB	TAL SPK

Lab Chronicle

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014004

Job ID: 590-14419-1

Client Sample ID: SB-7(1-2)

Lab Sample ID: 590-14419-10

Date Collected: 10/06/20 11:16

Matrix: Solid

Date Received: 12/28/20 10:55

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			30150	12/31/20 09:21	AMB	TAL SPK

Client Sample ID: SB-7(1-2)

Lab Sample ID: 590-14419-10

Date Collected: 10/06/20 11:16

Matrix: Solid

Date Received: 12/28/20 10:55

Percent Solids: 95.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			15.07 g	2 mL	30191	01/07/21 12:58	NMI	TAL SPK
Total/NA	Analysis	8270E SIM		1			30189	01/07/21 19:01	NMI	TAL SPK
Total/NA	Prep	3050B			1.28 g	50 mL	30159	01/04/21 09:30	AMB	TAL SPK
Total/NA	Analysis	6010D		1			30176	01/05/21 16:01	AMB	TAL SPK

Client Sample ID: SB-8(2-3)

Lab Sample ID: 590-14419-11

Date Collected: 10/05/20 15:52

Matrix: Solid

Date Received: 12/28/20 10:55

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			30150	12/31/20 09:21	AMB	TAL SPK

Client Sample ID: SB-8(2-3)

Lab Sample ID: 590-14419-11

Date Collected: 10/05/20 15:52

Matrix: Solid

Date Received: 12/28/20 10:55

Percent Solids: 86.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			15.07 g	2 mL	30191	01/07/21 12:58	NMI	TAL SPK
Total/NA	Analysis	8270E SIM		5			30189	01/07/21 19:28	NMI	TAL SPK
Total/NA	Prep	3550C			15.07 g	2 mL	30191	01/07/21 12:58	NMI	TAL SPK
Total/NA	Analysis	8270E SIM		50			30198	01/11/21 11:44	NMI	TAL SPK
Total/NA	Prep	3050B			1.36 g	50 mL	30159	01/04/21 09:30	AMB	TAL SPK
Total/NA	Analysis	6010D		1			30176	01/05/21 16:05	AMB	TAL SPK

Client Sample ID: SB-9(3-4)

Lab Sample ID: 590-14419-12

Date Collected: 10/05/20 15:33

Matrix: Solid

Date Received: 12/28/20 10:55

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			30150	12/31/20 09:21	AMB	TAL SPK

Client Sample ID: SB-9(3-4)

Lab Sample ID: 590-14419-12

Date Collected: 10/05/20 15:33

Matrix: Solid

Date Received: 12/28/20 10:55

Percent Solids: 96.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			1.40 g	50 mL	30159	01/04/21 09:30	AMB	TAL SPK
Total/NA	Analysis	6010D		1			30176	01/05/21 16:09	AMB	TAL SPK

Eurofins TestAmerica, Spokane

Lab Chronicle

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014004

Job ID: 590-14419-1

Client Sample ID: SB-9(4-5)

Lab Sample ID: 590-14419-13

Date Collected: 10/05/20 15:34

Matrix: Solid

Date Received: 12/28/20 10:55

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			30150	12/31/20 09:21	AMB	TAL SPK

Client Sample ID: SB-9(4-5)

Lab Sample ID: 590-14419-13

Date Collected: 10/05/20 15:34

Matrix: Solid

Date Received: 12/28/20 10:55

Percent Solids: 96.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			15.32 g	2 mL	30191	01/07/21 12:58	NMI	TAL SPK
Total/NA	Analysis	8270E SIM		1			30189	01/07/21 19:54	NMI	TAL SPK
Total/NA	Prep	3550C			15.32 g	2 mL	30191	01/07/21 12:58	NMI	TAL SPK
Total/NA	Analysis	8270E SIM		10			30198	01/11/21 12:10	NMI	TAL SPK

Client Sample ID: SB-10(1-2)

Lab Sample ID: 590-14419-14

Date Collected: 10/06/20 12:21

Matrix: Solid

Date Received: 12/28/20 10:55

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			30150	12/31/20 09:21	AMB	TAL SPK

Client Sample ID: SB-10(1-2)

Lab Sample ID: 590-14419-14

Date Collected: 10/06/20 12:21

Matrix: Solid

Date Received: 12/28/20 10:55

Percent Solids: 94.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			15.62 g	2 mL	30191	01/07/21 12:58	NMI	TAL SPK
Total/NA	Analysis	8270E SIM		1			30189	01/07/21 20:20	NMI	TAL SPK

Client Sample ID: SB-11(2-3)

Lab Sample ID: 590-14419-15

Date Collected: 10/06/20 12:42

Matrix: Solid

Date Received: 12/28/20 10:55

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			30150	12/31/20 09:21	AMB	TAL SPK

Client Sample ID: SB-11(2-3)

Lab Sample ID: 590-14419-15

Date Collected: 10/06/20 12:42

Matrix: Solid

Date Received: 12/28/20 10:55

Percent Solids: 93.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			1.59 g	50 mL	30159	01/04/21 09:30	AMB	TAL SPK
Total/NA	Analysis	6010D		1			30176	01/05/21 16:13	AMB	TAL SPK

Lab Chronicle

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014004

Job ID: 590-14419-1

Client Sample ID: SB-11(1-2)

Date Collected: 10/06/20 12:41

Date Received: 12/28/20 10:55

Lab Sample ID: 590-14419-16

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			30150	12/31/20 09:21	AMB	TAL SPK

Client Sample ID: SB-11(1-2)

Date Collected: 10/06/20 12:41

Date Received: 12/28/20 10:55

Lab Sample ID: 590-14419-16

Matrix: Solid

Percent Solids: 92.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			15.05 g	2 mL	30191	01/07/21 12:58	NMI	TAL SPK
Total/NA	Analysis	8270E SIM		1			30189	01/07/21 20:46	NMI	TAL SPK

Client Sample ID: SB-12(3-4)

Date Collected: 10/05/20 15:18

Date Received: 12/28/20 10:55

Lab Sample ID: 590-14419-17

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			30150	12/31/20 09:21	AMB	TAL SPK

Client Sample ID: SB-12(3-4)

Date Collected: 10/05/20 15:18

Date Received: 12/28/20 10:55

Lab Sample ID: 590-14419-17

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			1.83 g	50 mL	30159	01/04/21 09:30	AMB	TAL SPK
Total/NA	Analysis	6010D		1			30176	01/05/21 16:17	AMB	TAL SPK

Client Sample ID: SB-12(4-5)

Date Collected: 10/05/20 15:19

Date Received: 12/28/20 10:55

Lab Sample ID: 590-14419-18

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			30150	12/31/20 09:21	AMB	TAL SPK

Client Sample ID: SB-12(4-5)

Date Collected: 10/05/20 15:19

Date Received: 12/28/20 10:55

Lab Sample ID: 590-14419-18

Matrix: Solid

Percent Solids: 98.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			15.42 g	2 mL	30191	01/07/21 12:58	NMI	TAL SPK
Total/NA	Analysis	8270E SIM		1			30189	01/07/21 21:12	NMI	TAL SPK

Client Sample ID: SB-13(1-2)

Date Collected: 10/05/20 14:41

Date Received: 12/28/20 10:55

Lab Sample ID: 590-14419-19

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			30150	12/31/20 09:21	AMB	TAL SPK

Eurofins TestAmerica, Spokane

Lab Chronicle

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014004

Job ID: 590-14419-1

Client Sample ID: SB-13(1-2)

Lab Sample ID: 590-14419-19

Date Collected: 10/05/20 14:41

Matrix: Solid

Date Received: 12/28/20 10:55

Percent Solids: 96.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			1.60 g	50 mL	30159	01/04/21 09:30	AMB	TAL SPK
Total/NA	Analysis	6010D		1			30176	01/05/21 16:21	AMB	TAL SPK

Client Sample ID: SB-13(3-4)

Lab Sample ID: 590-14419-20

Date Collected: 10/05/20 14:43

Matrix: Solid

Date Received: 12/28/20 10:55

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			30150	12/31/20 09:21	AMB	TAL SPK

Client Sample ID: SB-13(3-4)

Lab Sample ID: 590-14419-20

Date Collected: 10/05/20 14:43

Matrix: Solid

Date Received: 12/28/20 10:55

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			15.82 g	2 mL	30191	01/07/21 12:58	NMI	TAL SPK
Total/NA	Analysis	8270E SIM		1			30189	01/07/21 21:38	NMI	TAL SPK

Client Sample ID: SB-14(1-2)

Lab Sample ID: 590-14419-21

Date Collected: 10/06/20 13:01

Matrix: Solid

Date Received: 12/28/20 10:55

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			30150	12/31/20 09:21	AMB	TAL SPK

Client Sample ID: SB-14(1-2)

Lab Sample ID: 590-14419-21

Date Collected: 10/06/20 13:01

Matrix: Solid

Date Received: 12/28/20 10:55

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			15.35 g	2 mL	30191	01/07/21 12:58	NMI	TAL SPK
Total/NA	Analysis	8270E SIM		1			30189	01/07/21 22:04	NMI	TAL SPK
Total/NA	Prep	3050B			1.61 g	50 mL	30159	01/04/21 09:30	AMB	TAL SPK
Total/NA	Analysis	6010D		1			30176	01/05/21 16:24	AMB	TAL SPK

Client Sample ID: SB-15(2-3)

Lab Sample ID: 590-14419-22

Date Collected: 10/06/20 13:12

Matrix: Solid

Date Received: 12/28/20 10:55

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			30150	12/31/20 09:21	AMB	TAL SPK

Lab Chronicle

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014004

Job ID: 590-14419-1

Client Sample ID: SB-15(2-3)

Date Collected: 10/06/20 13:12

Date Received: 12/28/20 10:55

Lab Sample ID: 590-14419-22

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			1.32 g	50 mL	30159	01/04/21 09:30	AMB	TAL SPK
Total/NA	Analysis	6010D		1			30176	01/05/21 16:28	AMB	TAL SPK

Client Sample ID: SB-16(1-2)

Date Collected: 10/05/20 14:11

Date Received: 12/28/20 10:55

Lab Sample ID: 590-14419-23

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			30150	12/31/20 09:21	AMB	TAL SPK

Client Sample ID: SB-16(1-2)

Date Collected: 10/05/20 14:11

Date Received: 12/28/20 10:55

Lab Sample ID: 590-14419-23

Matrix: Solid

Percent Solids: 93.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			15.78 g	2 mL	30191	01/07/21 12:58	NMI	TAL SPK
Total/NA	Analysis	8270E SIM		1			30189	01/07/21 22:30	NMI	TAL SPK
Total/NA	Prep	3550C			15.78 g	2 mL	30191	01/07/21 12:58	NMI	TAL SPK
Total/NA	Analysis	8270E SIM		10			30198	01/11/21 12:36	NMI	TAL SPK
Total/NA	Prep	3050B			1.37 g	50 mL	30159	01/04/21 09:30	AMB	TAL SPK
Total/NA	Analysis	6010D		1			30176	01/05/21 16:32	AMB	TAL SPK

Client Sample ID: SB-17(2-3)

Date Collected: 10/05/20 13:32

Date Received: 12/28/20 10:55

Lab Sample ID: 590-14419-24

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			30150	12/31/20 09:21	AMB	TAL SPK

Client Sample ID: SB-17(2-3)

Date Collected: 10/05/20 13:32

Date Received: 12/28/20 10:55

Lab Sample ID: 590-14419-24

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			1.53 g	50 mL	30159	01/04/21 09:30	AMB	TAL SPK
Total/NA	Analysis	6010D		1			30176	01/05/21 16:36	AMB	TAL SPK

Client Sample ID: SB-17(4-5)

Date Collected: 10/05/20 13:34

Date Received: 12/28/20 10:55

Lab Sample ID: 590-14419-25

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			30150	12/31/20 09:21	AMB	TAL SPK

Lab Chronicle

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014004

Job ID: 590-14419-1

Client Sample ID: SB-17(4-5)

Lab Sample ID: 590-14419-25

Date Collected: 10/05/20 13:34

Matrix: Solid

Date Received: 12/28/20 10:55

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	3550C			15.51 g	2 mL	30191	01/07/21 12:58	NMI	TAL SPK
Total/NA	Analysis	8270E SIM		1			30189	01/07/21 22:57	NMI	TAL SPK

Laboratory References:

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



Accreditation/Certification Summary

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014004

Job ID: 590-14419-1

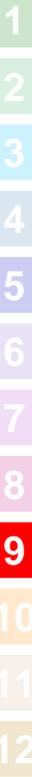
Laboratory: Eurofins TestAmerica, Spokane

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

<u>Authority</u>	<u>Program</u>	<u>Identification Number</u>	<u>Expiration Date</u>
Washington	State	C569	01-06-22

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

<u>Analysis Method</u>	<u>Prep Method</u>	<u>Matrix</u>	<u>Analyte</u>
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids



Method Summary

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014004

Job ID: 590-14419-1

Method	Method Description	Protocol	Laboratory
8270E SIM	Semivolatile Organic Compounds (GC/MS SIM)	SW846	TAL SPK
6010D	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 = Eurofins TestAmerica, Spokane, 11922 East 1st Ave, Spokane, WA 99206, TEL (509)924-9200



Sample Custody Record

Samples Shipped to: TEST AMERICA



HART CROWSER

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Hart Crowser, Inc.
3131 Elliott Avenue, Suite 600
Seattle, Washington 98122
Office: 206.324.9530 • Fax 206.328.5581

JOB 150014004 LAB NUMBER _____
 PROJECT NAME CIVIL
 HART CROWSER CONTACT J. Hawley
 SAMPLED BY: K. Huddleston

REQUESTED ANALYSIS _____
 CONTAINERS _____
 OBSERVATIONS/COMMENTS/
 COMPOSITING INSTRUCTIONS _____

COOLER NO.: 1.7°C STORAGE LOCATION: _____
 See Lab Work Order No. _____
 for Other Contract Requirements

LAB NO.	SAMPLE ID	DESCRIPTION	DATE	TIME	MATRIX	LEAD	PARTS	CONTAINERS	TOTAL NUMBER OF CONTAINERS
	SB-1/(1-2)		10/6/20	0951	Soil	X		1	1
	SB-1/(2-3)		10/6/20	0952		X		1	1
	SB-2/(2-3)		10/6/20	1002		X		1	1
	SB-3/(2-3)		10/6/20	1032		X		1	1
	SB-4/(1-2)		10/6/20	0901		X		1	1
	SB-4/(4-5)		10/6/20	0904		X		1	1
	SB-5/(2-3)		10/5/20	1632		X		1	1
	SB-5/(4-5)		10/5/20	1634		X		1	1
	SB-6/(2-3)		10/6/20	1052		X		1	1
	SB-6/(1-2)		10/6/20	1116		X		1	1
	SB-7/(1-2)		10/6/20	1116		X		1	1
	SB-8/(2-3)		10/6/20	1552		X		1	1

White to Lab Yellow to Project Manager Pink to Sample Custodian



Sample Custody Record

Samples Shipped to: TEST AMERICA

HART CROWSER Page 20 of 27

Hart Crowser, Inc.
3131 Elliott Avenue, Suite 600
Seattle, Washington 98127
Office: 206.324.9530 • Fax 206.328.5581

JOB <u>1500014004</u> LAB NUMBER _____		PROJECT NAME <u>CUSD</u>		HART CROWSER CONTACT <u>J. HANEY</u>		SAMPLER BY: <u>W. McEwen</u> ^{with} <u>K. HODDGEN</u>	
LAB NO.	SAMPLE ID	DESCRIPTION	DATE	TIME	MATRIX	REQUESTED ANALYSIS	NO. OF CONTAINERS
	SB-9 (3-4)		10/5/20	1533	Soil	LEAD PAHS	OBSERVATIONS/COMMENTS/ COMPOSITING INSTRUCTIONS
	SB-9 (4-5)		10/5/20	1534			
	SB-10 (3-4)		10/6/20	1221			
	SB-11 (2-3)		10/6/20	1242			
	SB-11 (1-2)		10/6/20	1241			
	SB-12 (2-4)		10/5/20	1518			
	SB-12 (4-5)		10/5/20	1519			
	SB-13 (1-2)		10/5/20	1441			
	SB-13 (3-4)		10/5/20	1443			
	SB-14 (1-2)		10/6/20	1301			
	SB-15 (2-3)		10/6/20	1317			
	SB-16 (1-2)		10/5/20	1411			
RELINQUISHED BY	DATE	RECEIVED BY	DATE	DATE	DATE	SPECIAL SHIPMENT HANDLING OR STORAGE REQUIREMENTS:	TOTAL NUMBER OF CONTAINERS
<u>[Signature]</u>	12/24/20	<u>[Signature]</u>	12/24/20				
PRINT NAME <u>W. McEwen</u>	TIME	PRINT NAME <u>Nicole Lewis</u>	TIME				
COMPANY <u>HCC</u>		COMPANY <u>TA-SPV</u>					
RELINQUISHED BY	DATE	RECEIVED BY	DATE	DATE	DATE	COOLER NO.: <u>1.79c</u>	STORAGE LOCATION:
SIGNATURE	TIME	SIGNATURE	TIME			See Lab Work Order No. _____	STORAGE REQUIREMENTS
PRINT NAME		PRINT NAME				for Other Contract Requirements	
COMPANY		COMPANY					

White to Lab Yellow to Project Manager Pink to Sample Custodian

Login Sample Receipt Checklist

Client: Hart Crowser, Inc.

Job Number: 590-14419-1

Login Number: 14419

List Number: 1

Creator: O'Toole, Maria C

List Source: Eurofins TestAmerica, Spokane

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	
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)	False	Refer to Job Narrative for details.
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.

ANALYTICAL REPORT

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

Laboratory Job ID: 590-14432-1
Client Project/Site: CVSD/15014004

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

Attn: John Haney



*Authorized for release by:
1/14/2021 4:59:25 PM*

Randee Arrington, Project Manager II
(509)924-9200
Randee.Arrington@Eurofinset.com

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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.



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Case Narrative

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014004

Job ID: 590-14432-1

Job ID: 590-14432-1

Laboratory: Eurofins TestAmerica, Spokane

Narrative

Receipt

The samples were received on 1/4/2021 9:29 AM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.7° C.

GC/MS Semi VOA

Method 8270E SIM: Surrogate recovery for the following sample was outside the upper control limit: (MB 590-30167/1-A). This sample did not contain any target analytes; 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

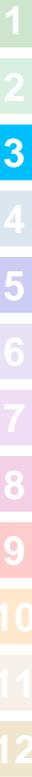
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

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: CVSD/15014004

Job ID: 590-14432-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
590-14432-1	TP-75(1-2)	Solid	12/21/20 09:56	01/04/21 09:29	
590-14432-2	TP-78(1-2)	Solid	12/21/20 07:41	01/04/21 09:29	
590-14432-3	TP-80(1-2)	Solid	12/22/20 08:11	01/04/21 09:29	
590-14432-4	TP-82(1-2)	Solid	12/22/20 09:01	01/04/21 09:29	
590-14432-5	TP-83(1-2)	Solid	12/22/20 09:31	01/04/21 09:29	
590-14432-6	TP-84(1-2)	Solid	12/22/20 10:06	01/04/21 09:29	
590-14432-7	TP-85(1-2)	Solid	12/22/20 10:36	01/04/21 09:29	

Definitions/Glossary

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014004

Job ID: 590-14432-1

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
S1+	Surrogate recovery exceeds control limits, high biased.

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
CFU	Colony Forming Unit
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)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
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)
TNTC	Too Numerous To Count

Client Sample Results

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014004

Job ID: 590-14432-1

Client Sample ID: TP-75(1-2)

Lab Sample ID: 590-14432-1

Date Collected: 12/21/20 09:56

Matrix: Solid

Date Received: 01/04/21 09:29

Percent Solids: 90.6

Method: 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	14		2.4		mg/Kg	☼	01/11/21 13:59	01/13/21 12:46	1

Client Sample ID: TP-78(1-2)

Lab Sample ID: 590-14432-2

Date Collected: 12/21/20 07:41

Matrix: Solid

Date Received: 01/04/21 09:29

Percent Solids: 88.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		11		ug/Kg	☼	01/04/21 13:08	01/04/21 15:58	1
2-Methylnaphthalene	ND		11		ug/Kg	☼	01/04/21 13:08	01/04/21 15:58	1
1-Methylnaphthalene	ND		11		ug/Kg	☼	01/04/21 13:08	01/04/21 15:58	1
Acenaphthylene	ND		11		ug/Kg	☼	01/04/21 13:08	01/04/21 15:58	1
Acenaphthene	ND		11		ug/Kg	☼	01/04/21 13:08	01/04/21 15:58	1
Fluorene	ND		11		ug/Kg	☼	01/04/21 13:08	01/04/21 15:58	1
Phenanthrene	ND		11		ug/Kg	☼	01/04/21 13:08	01/04/21 15:58	1
Anthracene	ND		11		ug/Kg	☼	01/04/21 13:08	01/04/21 15:58	1
Fluoranthene	ND		11		ug/Kg	☼	01/04/21 13:08	01/04/21 15:58	1
Pyrene	ND		11		ug/Kg	☼	01/04/21 13:08	01/04/21 15:58	1
Benzo[a]anthracene	ND		11		ug/Kg	☼	01/04/21 13:08	01/04/21 15:58	1
Chrysene	ND		11		ug/Kg	☼	01/04/21 13:08	01/04/21 15:58	1
Benzo[b]fluoranthene	ND		11		ug/Kg	☼	01/04/21 13:08	01/04/21 15:58	1
Benzo[k]fluoranthene	ND		11		ug/Kg	☼	01/04/21 13:08	01/04/21 15:58	1
Benzo[a]pyrene	ND		11		ug/Kg	☼	01/04/21 13:08	01/04/21 15:58	1
Indeno[1,2,3-cd]pyrene	ND		11		ug/Kg	☼	01/04/21 13:08	01/04/21 15:58	1
Dibenz(a,h)anthracene	ND		11		ug/Kg	☼	01/04/21 13:08	01/04/21 15:58	1
Benzo[g,h,i]perylene	ND		11		ug/Kg	☼	01/04/21 13:08	01/04/21 15:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	55		33 - 120	01/04/21 13:08	01/04/21 15:58	1
2-Fluorobiphenyl (Surr)	66		47 - 120	01/04/21 13:08	01/04/21 15:58	1
p-Terphenyl-d14	105		74 - 120	01/04/21 13:08	01/04/21 15:58	1

Client Sample ID: TP-80(1-2)

Lab Sample ID: 590-14432-3

Date Collected: 12/22/20 08:11

Matrix: Solid

Date Received: 01/04/21 09:29

Percent Solids: 90.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		11		ug/Kg	☼	01/04/21 13:08	01/04/21 17:17	1
2-Methylnaphthalene	ND		11		ug/Kg	☼	01/04/21 13:08	01/04/21 17:17	1
1-Methylnaphthalene	ND		11		ug/Kg	☼	01/04/21 13:08	01/04/21 17:17	1
Acenaphthylene	ND		11		ug/Kg	☼	01/04/21 13:08	01/04/21 17:17	1
Acenaphthene	ND		11		ug/Kg	☼	01/04/21 13:08	01/04/21 17:17	1
Fluorene	ND		11		ug/Kg	☼	01/04/21 13:08	01/04/21 17:17	1
Phenanthrene	ND		11		ug/Kg	☼	01/04/21 13:08	01/04/21 17:17	1
Anthracene	ND		11		ug/Kg	☼	01/04/21 13:08	01/04/21 17:17	1
Fluoranthene	ND		11		ug/Kg	☼	01/04/21 13:08	01/04/21 17:17	1
Pyrene	ND		11		ug/Kg	☼	01/04/21 13:08	01/04/21 17:17	1
Benzo[a]anthracene	ND		11		ug/Kg	☼	01/04/21 13:08	01/04/21 17:17	1
Chrysene	ND		11		ug/Kg	☼	01/04/21 13:08	01/04/21 17:17	1
Benzo[b]fluoranthene	ND		11		ug/Kg	☼	01/04/21 13:08	01/04/21 17:17	1

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Client Sample Results

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014004

Job ID: 590-14432-1

Client Sample ID: TP-80(1-2)

Lab Sample ID: 590-14432-3

Date Collected: 12/22/20 08:11

Matrix: Solid

Date Received: 01/04/21 09:29

Percent Solids: 90.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	ND		11		ug/Kg	☼	01/04/21 13:08	01/04/21 17:17	1
Benzo[a]pyrene	ND		11		ug/Kg	☼	01/04/21 13:08	01/04/21 17:17	1
Indeno[1,2,3-cd]pyrene	ND		11		ug/Kg	☼	01/04/21 13:08	01/04/21 17:17	1
Dibenz(a,h)anthracene	ND		11		ug/Kg	☼	01/04/21 13:08	01/04/21 17:17	1
Benzo[g,h,i]perylene	ND		11		ug/Kg	☼	01/04/21 13:08	01/04/21 17:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	66		33 - 120				01/04/21 13:08	01/04/21 17:17	1
2-Fluorobiphenyl (Surr)	81		47 - 120				01/04/21 13:08	01/04/21 17:17	1
p-Terphenyl-d14	110		74 - 120				01/04/21 13:08	01/04/21 17:17	1

Client Sample ID: TP-82(1-2)

Lab Sample ID: 590-14432-4

Date Collected: 12/22/20 09:01

Matrix: Solid

Date Received: 01/04/21 09:29

Percent Solids: 87.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		11		ug/Kg	☼	01/04/21 13:08	01/04/21 17:43	1
2-Methylnaphthalene	ND		11		ug/Kg	☼	01/04/21 13:08	01/04/21 17:43	1
1-Methylnaphthalene	ND		11		ug/Kg	☼	01/04/21 13:08	01/04/21 17:43	1
Acenaphthylene	ND		11		ug/Kg	☼	01/04/21 13:08	01/04/21 17:43	1
Acenaphthene	ND		11		ug/Kg	☼	01/04/21 13:08	01/04/21 17:43	1
Fluorene	ND		11		ug/Kg	☼	01/04/21 13:08	01/04/21 17:43	1
Phenanthrene	11		11		ug/Kg	☼	01/04/21 13:08	01/04/21 17:43	1
Anthracene	ND		11		ug/Kg	☼	01/04/21 13:08	01/04/21 17:43	1
Fluoranthene	25		11		ug/Kg	☼	01/04/21 13:08	01/04/21 17:43	1
Pyrene	35		11		ug/Kg	☼	01/04/21 13:08	01/04/21 17:43	1
Benzo[a]anthracene	24		11		ug/Kg	☼	01/04/21 13:08	01/04/21 17:43	1
Chrysene	31		11		ug/Kg	☼	01/04/21 13:08	01/04/21 17:43	1
Benzo[b]fluoranthene	34		11		ug/Kg	☼	01/04/21 13:08	01/04/21 17:43	1
Benzo[k]fluoranthene	13		11		ug/Kg	☼	01/04/21 13:08	01/04/21 17:43	1
Benzo[a]pyrene	33		11		ug/Kg	☼	01/04/21 13:08	01/04/21 17:43	1
Indeno[1,2,3-cd]pyrene	18		11		ug/Kg	☼	01/04/21 13:08	01/04/21 17:43	1
Dibenz(a,h)anthracene	ND		11		ug/Kg	☼	01/04/21 13:08	01/04/21 17:43	1
Benzo[g,h,i]perylene	23		11		ug/Kg	☼	01/04/21 13:08	01/04/21 17:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	66		33 - 120				01/04/21 13:08	01/04/21 17:43	1
2-Fluorobiphenyl (Surr)	82		47 - 120				01/04/21 13:08	01/04/21 17:43	1
p-Terphenyl-d14	114		74 - 120				01/04/21 13:08	01/04/21 17:43	1

Client Sample ID: TP-83(1-2)

Lab Sample ID: 590-14432-5

Date Collected: 12/22/20 09:31

Matrix: Solid

Date Received: 01/04/21 09:29

Percent Solids: 90.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		11		ug/Kg	☼	01/04/21 13:08	01/04/21 18:09	1
2-Methylnaphthalene	ND		11		ug/Kg	☼	01/04/21 13:08	01/04/21 18:09	1
1-Methylnaphthalene	ND		11		ug/Kg	☼	01/04/21 13:08	01/04/21 18:09	1
Acenaphthylene	ND		11		ug/Kg	☼	01/04/21 13:08	01/04/21 18:09	1

Eurofins TestAmerica, Spokane

Client Sample Results

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014004

Job ID: 590-14432-1

Client Sample ID: TP-83(1-2)

Lab Sample ID: 590-14432-5

Date Collected: 12/22/20 09:31

Matrix: Solid

Date Received: 01/04/21 09:29

Percent Solids: 90.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		11		ug/Kg	✱	01/04/21 13:08	01/04/21 18:09	1
Fluorene	ND		11		ug/Kg	✱	01/04/21 13:08	01/04/21 18:09	1
Phenanthrene	ND		11		ug/Kg	✱	01/04/21 13:08	01/04/21 18:09	1
Anthracene	ND		11		ug/Kg	✱	01/04/21 13:08	01/04/21 18:09	1
Fluoranthene	ND		11		ug/Kg	✱	01/04/21 13:08	01/04/21 18:09	1
Pyrene	ND		11		ug/Kg	✱	01/04/21 13:08	01/04/21 18:09	1
Benzo[a]anthracene	ND		11		ug/Kg	✱	01/04/21 13:08	01/04/21 18:09	1
Chrysene	ND		11		ug/Kg	✱	01/04/21 13:08	01/04/21 18:09	1
Benzo[b]fluoranthene	ND		11		ug/Kg	✱	01/04/21 13:08	01/04/21 18:09	1
Benzo[k]fluoranthene	ND		11		ug/Kg	✱	01/04/21 13:08	01/04/21 18:09	1
Benzo[a]pyrene	ND		11		ug/Kg	✱	01/04/21 13:08	01/04/21 18:09	1
Indeno[1,2,3-cd]pyrene	ND		11		ug/Kg	✱	01/04/21 13:08	01/04/21 18:09	1
Dibenz(a,h)anthracene	ND		11		ug/Kg	✱	01/04/21 13:08	01/04/21 18:09	1
Benzo[g,h,i]perylene	ND		11		ug/Kg	✱	01/04/21 13:08	01/04/21 18:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	49		33 - 120				01/04/21 13:08	01/04/21 18:09	1
2-Fluorobiphenyl (Surr)	57		47 - 120				01/04/21 13:08	01/04/21 18:09	1
p-Terphenyl-d14	96		74 - 120				01/04/21 13:08	01/04/21 18:09	1

Client Sample ID: TP-84(1-2)

Lab Sample ID: 590-14432-6

Date Collected: 12/22/20 10:06

Matrix: Solid

Date Received: 01/04/21 09:29

Percent Solids: 85.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		11		ug/Kg	✱	01/04/21 13:08	01/04/21 18:35	1
2-Methylnaphthalene	ND		11		ug/Kg	✱	01/04/21 13:08	01/04/21 18:35	1
1-Methylnaphthalene	ND		11		ug/Kg	✱	01/04/21 13:08	01/04/21 18:35	1
Acenaphthylene	ND		11		ug/Kg	✱	01/04/21 13:08	01/04/21 18:35	1
Acenaphthene	ND		11		ug/Kg	✱	01/04/21 13:08	01/04/21 18:35	1
Fluorene	ND		11		ug/Kg	✱	01/04/21 13:08	01/04/21 18:35	1
Phenanthrene	14		11		ug/Kg	✱	01/04/21 13:08	01/04/21 18:35	1
Anthracene	ND		11		ug/Kg	✱	01/04/21 13:08	01/04/21 18:35	1
Fluoranthene	48		11		ug/Kg	✱	01/04/21 13:08	01/04/21 18:35	1
Pyrene	60		11		ug/Kg	✱	01/04/21 13:08	01/04/21 18:35	1
Benzo[a]anthracene	45		11		ug/Kg	✱	01/04/21 13:08	01/04/21 18:35	1
Chrysene	58		11		ug/Kg	✱	01/04/21 13:08	01/04/21 18:35	1
Benzo[b]fluoranthene	66		11		ug/Kg	✱	01/04/21 13:08	01/04/21 18:35	1
Benzo[k]fluoranthene	27		11		ug/Kg	✱	01/04/21 13:08	01/04/21 18:35	1
Benzo[a]pyrene	63		11		ug/Kg	✱	01/04/21 13:08	01/04/21 18:35	1
Indeno[1,2,3-cd]pyrene	32		11		ug/Kg	✱	01/04/21 13:08	01/04/21 18:35	1
Dibenz(a,h)anthracene	12		11		ug/Kg	✱	01/04/21 13:08	01/04/21 18:35	1
Benzo[g,h,i]perylene	40		11		ug/Kg	✱	01/04/21 13:08	01/04/21 18:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	63		33 - 120				01/04/21 13:08	01/04/21 18:35	1
2-Fluorobiphenyl (Surr)	78		47 - 120				01/04/21 13:08	01/04/21 18:35	1
p-Terphenyl-d14	112		74 - 120				01/04/21 13:08	01/04/21 18:35	1

Eurofins TestAmerica, Spokane

Client Sample Results

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014004

Job ID: 590-14432-1

Client Sample ID: TP-85(1-2)

Lab Sample ID: 590-14432-7

Date Collected: 12/22/20 10:36

Matrix: Solid

Date Received: 01/04/21 09:29

Percent Solids: 81.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	17		12		ug/Kg	✱	01/04/21 13:08	01/04/21 19:02	1
2-Methylnaphthalene	24		12		ug/Kg	✱	01/04/21 13:08	01/04/21 19:02	1
1-Methylnaphthalene	20		12		ug/Kg	✱	01/04/21 13:08	01/04/21 19:02	1
Acenaphthylene	ND		12		ug/Kg	✱	01/04/21 13:08	01/04/21 19:02	1
Acenaphthene	77		12		ug/Kg	✱	01/04/21 13:08	01/04/21 19:02	1
Fluorene	49		12		ug/Kg	✱	01/04/21 13:08	01/04/21 19:02	1
Phenanthrene	730		12		ug/Kg	✱	01/04/21 13:08	01/04/21 19:02	1
Anthracene	140		12		ug/Kg	✱	01/04/21 13:08	01/04/21 19:02	1
Fluoranthene	890		12		ug/Kg	✱	01/04/21 13:08	01/04/21 19:02	1
Pyrene	1400		12		ug/Kg	✱	01/04/21 13:08	01/04/21 19:02	1
Benzo[a]anthracene	820		12		ug/Kg	✱	01/04/21 13:08	01/04/21 19:02	1
Chrysene	1100		12		ug/Kg	✱	01/04/21 13:08	01/04/21 19:02	1
Benzo[b]fluoranthene	1100		12		ug/Kg	✱	01/04/21 13:08	01/04/21 19:02	1
Benzo[k]fluoranthene	350		12		ug/Kg	✱	01/04/21 13:08	01/04/21 19:02	1
Benzo[a]pyrene	1100		12		ug/Kg	✱	01/04/21 13:08	01/04/21 19:02	1
Indeno[1,2,3-cd]pyrene	510		12		ug/Kg	✱	01/04/21 13:08	01/04/21 19:02	1
Dibenz(a,h)anthracene	180		12		ug/Kg	✱	01/04/21 13:08	01/04/21 19:02	1
Benzo[g,h,i]perylene	660		12		ug/Kg	✱	01/04/21 13:08	01/04/21 19:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	67		33 - 120	01/04/21 13:08	01/04/21 19:02	1
2-Fluorobiphenyl (Surr)	88		47 - 120	01/04/21 13:08	01/04/21 19:02	1
p-Terphenyl-d14	114		74 - 120	01/04/21 13:08	01/04/21 19:02	1

QC Sample Results

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014004

Job ID: 590-14432-1

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

Lab Sample ID: MB 590-30167/1-A
Matrix: Solid
Analysis Batch: 30165

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 30167

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Naphthalene	ND		10		ug/Kg		01/04/21 13:08	01/04/21 15:06	1
2-Methylnaphthalene	ND		10		ug/Kg		01/04/21 13:08	01/04/21 15:06	1
1-Methylnaphthalene	ND		10		ug/Kg		01/04/21 13:08	01/04/21 15:06	1
Acenaphthylene	ND		10		ug/Kg		01/04/21 13:08	01/04/21 15:06	1
Acenaphthene	ND		10		ug/Kg		01/04/21 13:08	01/04/21 15:06	1
Fluorene	ND		10		ug/Kg		01/04/21 13:08	01/04/21 15:06	1
Phenanthrene	ND		10		ug/Kg		01/04/21 13:08	01/04/21 15:06	1
Anthracene	ND		10		ug/Kg		01/04/21 13:08	01/04/21 15:06	1
Fluoranthene	ND		10		ug/Kg		01/04/21 13:08	01/04/21 15:06	1
Pyrene	ND		10		ug/Kg		01/04/21 13:08	01/04/21 15:06	1
Benzo[a]anthracene	ND		10		ug/Kg		01/04/21 13:08	01/04/21 15:06	1
Chrysene	ND		10		ug/Kg		01/04/21 13:08	01/04/21 15:06	1
Benzo[b]fluoranthene	ND		10		ug/Kg		01/04/21 13:08	01/04/21 15:06	1
Benzo[k]fluoranthene	ND		10		ug/Kg		01/04/21 13:08	01/04/21 15:06	1
Benzo[a]pyrene	ND		10		ug/Kg		01/04/21 13:08	01/04/21 15:06	1
Indeno[1,2,3-cd]pyrene	ND		10		ug/Kg		01/04/21 13:08	01/04/21 15:06	1
Dibenz(a,h)anthracene	ND		10		ug/Kg		01/04/21 13:08	01/04/21 15:06	1
Benzo[g,h,i]perylene	ND		10		ug/Kg		01/04/21 13:08	01/04/21 15:06	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
Nitrobenzene-d5	61		33 - 120	01/04/21 13:08	01/04/21 15:06	1
2-Fluorobiphenyl (Surr)	81		47 - 120	01/04/21 13:08	01/04/21 15:06	1
p-Terphenyl-d14	125	S1+	74 - 120	01/04/21 13:08	01/04/21 15:06	1

Lab Sample ID: LCS 590-30167/2-A
Matrix: Solid
Analysis Batch: 30165

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 30167

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
Naphthalene	267	178		ug/Kg		67	45 - 120
2-Methylnaphthalene	267	203		ug/Kg		76	48 - 120
1-Methylnaphthalene	267	201		ug/Kg		75	44 - 120
Acenaphthylene	267	210		ug/Kg		79	52 - 120
Acenaphthene	267	212		ug/Kg		80	53 - 120
Fluorene	267	244		ug/Kg		91	55 - 120
Phenanthrene	267	234		ug/Kg		88	57 - 121
Anthracene	267	219		ug/Kg		82	60 - 120
Fluoranthene	267	254		ug/Kg		95	63 - 127
Pyrene	267	277		ug/Kg		104	61 - 125
Benzo[a]anthracene	267	266		ug/Kg		100	61 - 131
Chrysene	267	250		ug/Kg		94	67 - 127
Benzo[b]fluoranthene	267	256		ug/Kg		96	61 - 127
Benzo[k]fluoranthene	267	243		ug/Kg		91	63 - 127
Benzo[a]pyrene	267	233		ug/Kg		87	60 - 126
Indeno[1,2,3-cd]pyrene	267	222		ug/Kg		83	63 - 128
Dibenz(a,h)anthracene	267	227		ug/Kg		85	60 - 121
Benzo[g,h,i]perylene	267	223		ug/Kg		84	58 - 129

Eurofins TestAmerica, Spokane

QC Sample Results

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014004

Job ID: 590-14432-1

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

Lab Sample ID: LCS 590-30167/2-A
Matrix: Solid
Analysis Batch: 30165

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 30167

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
Nitrobenzene-d5	65		33 - 120
2-Fluorobiphenyl (Surr)	82		47 - 120
p-Terphenyl-d14	114		74 - 120

Lab Sample ID: 590-14432-2 MS
Matrix: Solid
Analysis Batch: 30165

Client Sample ID: TP-78(1-2)
Prep Type: Total/NA
Prep Batch: 30167

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.	Limits
	Result	Qualifier	Added	Result	Qualifier					
Naphthalene	ND		294	204		ug/Kg	☼	70		45 - 120
2-Methylnaphthalene	ND		294	228		ug/Kg	☼	78		48 - 120
1-Methylnaphthalene	ND		294	227		ug/Kg	☼	77		44 - 120
Acenaphthylene	ND		294	237		ug/Kg	☼	81		52 - 120
Acenaphthene	ND		294	229		ug/Kg	☼	78		53 - 120
Fluorene	ND		294	274		ug/Kg	☼	93		55 - 120
Phenanthrene	ND		294	265		ug/Kg	☼	90		57 - 121
Anthracene	ND		294	252		ug/Kg	☼	86		60 - 120
Fluoranthene	ND		294	284		ug/Kg	☼	97		63 - 127
Pyrene	ND		294	324		ug/Kg	☼	110		61 - 125
Benzo[a]anthracene	ND		294	317		ug/Kg	☼	108		61 - 131
Chrysene	ND		294	300		ug/Kg	☼	102		67 - 127
Benzo[b]fluoranthene	ND		294	285		ug/Kg	☼	97		61 - 127
Benzo[k]fluoranthene	ND		294	279		ug/Kg	☼	95		63 - 127
Benzo[a]pyrene	ND		294	277		ug/Kg	☼	94		60 - 126
Indeno[1,2,3-cd]pyrene	ND		294	255		ug/Kg	☼	87		63 - 128
Dibenz(a,h)anthracene	ND		294	263		ug/Kg	☼	90		60 - 121
Benzo[g,h,i]perylene	ND		294	256		ug/Kg	☼	87		58 - 129

Surrogate	MS MS		Limits
	%Recovery	Qualifier	
Nitrobenzene-d5	65		33 - 120
2-Fluorobiphenyl (Surr)	78		47 - 120
p-Terphenyl-d14	113		74 - 120

Lab Sample ID: 590-14432-2 MSD
Matrix: Solid
Analysis Batch: 30165

Client Sample ID: TP-78(1-2)
Prep Type: Total/NA
Prep Batch: 30167

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	Limits	RPD	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier								
Naphthalene	ND		293	188		ug/Kg	☼	64		45 - 120	8		20
2-Methylnaphthalene	ND		293	224		ug/Kg	☼	77		48 - 120	2		20
1-Methylnaphthalene	ND		293	218		ug/Kg	☼	74		44 - 120	4		14
Acenaphthylene	ND		293	235		ug/Kg	☼	80		52 - 120	1		20
Acenaphthene	ND		293	230		ug/Kg	☼	79		53 - 120	0		11
Fluorene	ND		293	283		ug/Kg	☼	97		55 - 120	3		21
Phenanthrene	ND		293	264		ug/Kg	☼	90		57 - 121	0		18
Anthracene	ND		293	256		ug/Kg	☼	88		60 - 120	2		18
Fluoranthene	ND		293	298		ug/Kg	☼	102		63 - 127	5		18
Pyrene	ND		293	330		ug/Kg	☼	113		61 - 125	2		26

Eurofins TestAmerica, Spokane

QC Sample Results

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014004

Job ID: 590-14432-1

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

Lab Sample ID: 590-14432-2 MSD
Matrix: Solid
Analysis Batch: 30165

Client Sample ID: TP-78(1-2)
Prep Type: Total/NA
Prep Batch: 30167

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier						
Benzo[a]anthracene	ND		293	314		ug/Kg	⊛	107	61 - 131	1	16
Chrysene	ND		293	303		ug/Kg	⊛	103	67 - 127	1	15
Benzo[b]fluoranthene	ND		293	300		ug/Kg	⊛	102	61 - 127	5	16
Benzo[k]fluoranthene	ND		293	278		ug/Kg	⊛	95	63 - 127	0	16
Benzo[a]pyrene	ND		293	285		ug/Kg	⊛	97	60 - 126	3	20
Indeno[1,2,3-cd]pyrene	ND		293	259		ug/Kg	⊛	88	63 - 128	1	18
Dibenz(a,h)anthracene	ND		293	268		ug/Kg	⊛	92	60 - 121	2	18
Benzo[g,h,i]perylene	ND		293	264		ug/Kg	⊛	90	58 - 129	3	17
Surrogate	MSD	MSD									
	%Recovery	Qualifier	Limits								
Nitrobenzene-d5	62		33 - 120								
2-Fluorobiphenyl (Surr)	80		47 - 120								
p-Terphenyl-d14	117		74 - 120								

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 590-30202/2-A
Matrix: Solid
Analysis Batch: 30223

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 30202

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Lead	ND		3.0		mg/Kg		01/11/21 13:59	01/13/21 12:14	1

Lab Sample ID: LCS 590-30202/1-A
Matrix: Solid
Analysis Batch: 30223

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 30202

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec.	Limits
		Result	Qualifier					
Lead	25.0	25.4		mg/Kg		102		80 - 120

Lab Chronicle

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014004

Job ID: 590-14432-1

Client Sample ID: TP-75(1-2)

Date Collected: 12/21/20 09:56

Date Received: 01/04/21 09:29

Lab Sample ID: 590-14432-1

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			30184	01/06/21 12:58	NMI	TAL SPK

Client Sample ID: TP-75(1-2)

Date Collected: 12/21/20 09:56

Date Received: 01/04/21 09:29

Lab Sample ID: 590-14432-1

Matrix: Solid

Percent Solids: 90.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			1.39 g	50 mL	30202	01/11/21 13:59	JSP	TAL SPK
Total/NA	Analysis	6010D		1			30223	01/13/21 12:46	AMB	TAL SPK

Client Sample ID: TP-78(1-2)

Date Collected: 12/21/20 07:41

Date Received: 01/04/21 09:29

Lab Sample ID: 590-14432-2

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			30168	01/04/21 14:05	NMI	TAL SPK

Client Sample ID: TP-78(1-2)

Date Collected: 12/21/20 07:41

Date Received: 01/04/21 09:29

Lab Sample ID: 590-14432-2

Matrix: Solid

Percent Solids: 88.3

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	30167	01/04/21 13:08	NMI	TAL SPK
Total/NA	Analysis	8270E SIM		1			30165	01/04/21 15:58	NMI	TAL SPK

Client Sample ID: TP-80(1-2)

Date Collected: 12/22/20 08:11

Date Received: 01/04/21 09:29

Lab Sample ID: 590-14432-3

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			30168	01/04/21 14:05	NMI	TAL SPK

Client Sample ID: TP-80(1-2)

Date Collected: 12/22/20 08:11

Date Received: 01/04/21 09:29

Lab Sample ID: 590-14432-3

Matrix: Solid

Percent Solids: 90.1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			15.41 g	2 mL	30167	01/04/21 13:08	NMI	TAL SPK
Total/NA	Analysis	8270E SIM		1			30165	01/04/21 17:17	NMI	TAL SPK

Client Sample ID: TP-82(1-2)

Date Collected: 12/22/20 09:01

Date Received: 01/04/21 09:29

Lab Sample ID: 590-14432-4

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			30168	01/04/21 14:05	NMI	TAL SPK

Eurofins TestAmerica, Spokane

Lab Chronicle

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014004

Job ID: 590-14432-1

Client Sample ID: TP-82(1-2)
Date Collected: 12/22/20 09:01
Date Received: 01/04/21 09:29

Lab Sample ID: 590-14432-4
Matrix: Solid
Percent Solids: 87.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			15.23 g	2 mL	30167	01/04/21 13:08	NMI	TAL SPK
Total/NA	Analysis	8270E SIM		1			30165	01/04/21 17:43	NMI	TAL SPK

Client Sample ID: TP-83(1-2)
Date Collected: 12/22/20 09:31
Date Received: 01/04/21 09:29

Lab Sample ID: 590-14432-5
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			30168	01/04/21 14:05	NMI	TAL SPK

Client Sample ID: TP-83(1-2)
Date Collected: 12/22/20 09:31
Date Received: 01/04/21 09:29

Lab Sample ID: 590-14432-5
Matrix: Solid
Percent Solids: 90.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			15.62 g	2 mL	30167	01/04/21 13:08	NMI	TAL SPK
Total/NA	Analysis	8270E SIM		1			30165	01/04/21 18:09	NMI	TAL SPK

Client Sample ID: TP-84(1-2)
Date Collected: 12/22/20 10:06
Date Received: 01/04/21 09:29

Lab Sample ID: 590-14432-6
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			30168	01/04/21 14:05	NMI	TAL SPK

Client Sample ID: TP-84(1-2)
Date Collected: 12/22/20 10:06
Date Received: 01/04/21 09:29

Lab Sample ID: 590-14432-6
Matrix: Solid
Percent Solids: 85.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			15.52 g	2 mL	30167	01/04/21 13:08	NMI	TAL SPK
Total/NA	Analysis	8270E SIM		1			30165	01/04/21 18:35	NMI	TAL SPK

Client Sample ID: TP-85(1-2)
Date Collected: 12/22/20 10:36
Date Received: 01/04/21 09:29

Lab Sample ID: 590-14432-7
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			30168	01/04/21 14:05	NMI	TAL SPK

Lab Chronicle

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014004

Job ID: 590-14432-1

Client Sample ID: TP-85(1-2)

Lab Sample ID: 590-14432-7

Date Collected: 12/22/20 10:36

Matrix: Solid

Date Received: 01/04/21 09:29

Percent Solids: 81.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			15.67 g	2 mL	30167	01/04/21 13:08	NMI	TAL SPK
Total/NA	Analysis	8270E SIM		1			30165	01/04/21 19:02	NMI	TAL SPK

Laboratory References:

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



Accreditation/Certification Summary

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014004

Job ID: 590-14432-1

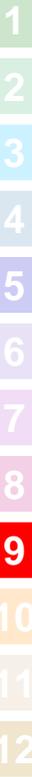
Laboratory: Eurofins TestAmerica, Spokane

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

<u>Authority</u>	<u>Program</u>	<u>Identification Number</u>	<u>Expiration Date</u>
Washington	State	C569	01-06-22

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

<u>Analysis Method</u>	<u>Prep Method</u>	<u>Matrix</u>	<u>Analyte</u>
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids



Method Summary

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014004

Job ID: 590-14432-1

Method	Method Description	Protocol	Laboratory
8270E SIM	Semivolatile Organic Compounds (GC/MS SIM)	SW846	TAL SPK
6010D	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 = Eurofins TestAmerica, Spokane, 11922 East 1st Ave, Spokane, WA 99206, TEL (509)924-9200



Login Sample Receipt Checklist

Client: Hart Crowser, Inc.

Job Number: 590-14432-1

Login Number: 14432
List Number: 1
Creator: O'Toole, Maria C

List Source: Eurofins TestAmerica, Spokane

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	
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.



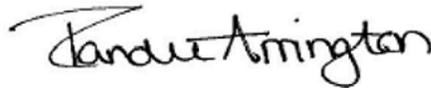
ANALYTICAL REPORT

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

Laboratory Job ID: 590-14437-1
Client Project/Site: CVSD/15014004

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

Attn: John Haney



*Authorized for release by:
1/15/2021 1:52:30 PM*

Randee Arrington, Project Manager II
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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.



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Case Narrative

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014004

Job ID: 590-14437-1

Job ID: 590-14437-1

Laboratory: Eurofins TestAmerica, Spokane

Narrative

Receipt

The samples were received on 1/4/2021 3:30 PM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 8.6° C.

Receipt Exceptions

The following samples were received at the laboratory outside the required temperature criteria: TP-92(0-1) (590-14437-1), TP-91(0-1) (590-14437-2), TP-90(0-1) (590-14437-3), TP-89(0-1) (590-14437-4), TP-88(0-1) (590-14437-5), TP-87(0-1) (590-14437-6) and TP-86(0-1) (590-14437-7). 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 8270E SIM: Due to the high concentration of multiple analytes, the matrix spike / matrix spike duplicate (MS/MSD) for preparation batch 590-30232 and analytical batch 590-30229 could not be evaluated for accuracy and precision. The associated laboratory control sample (LCS) met acceptance criteria.

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: CVSD/15014004

Job ID: 590-14437-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
590-14437-1	TP-92(0-1)	Solid	01/04/21 12:50	01/04/21 15:30	
590-14437-2	TP-91(0-1)	Solid	01/04/21 13:08	01/04/21 15:30	
590-14437-3	TP-90(0-1)	Solid	01/04/21 13:20	01/04/21 15:30	
590-14437-4	TP-89(0-1)	Solid	01/04/21 13:40	01/04/21 15:30	
590-14437-5	TP-88(0-1)	Solid	01/04/21 13:50	01/04/21 15:30	
590-14437-6	TP-87(0-1)	Solid	01/04/21 14:10	01/04/21 15:30	
590-14437-7	TP-86(0-1)	Solid	01/04/21 14:20	01/04/21 15:30	

Definitions/Glossary

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014004

Job ID: 590-14437-1

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control 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
CFU	Colony Forming Unit
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)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
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)
TNTC	Too Numerous To Count

Client Sample Results

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014004

Job ID: 590-14437-1

Client Sample ID: TP-92(0-1)

Lab Sample ID: 590-14437-1

Date Collected: 01/04/21 12:50

Matrix: Solid

Date Received: 01/04/21 15:30

Percent Solids: 82.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		12		ug/Kg	*	01/14/21 12:25	01/14/21 14:26	1
2-Methylnaphthalene	ND		12		ug/Kg	*	01/14/21 12:25	01/14/21 14:26	1
1-Methylnaphthalene	ND		12		ug/Kg	*	01/14/21 12:25	01/14/21 14:26	1
Acenaphthylene	ND		12		ug/Kg	*	01/14/21 12:25	01/14/21 14:26	1
Acenaphthene	16		12		ug/Kg	*	01/14/21 12:25	01/14/21 14:26	1
Fluorene	ND		12		ug/Kg	*	01/14/21 12:25	01/14/21 14:26	1
Phenanthrene	180		12		ug/Kg	*	01/14/21 12:25	01/14/21 14:26	1
Anthracene	35		12		ug/Kg	*	01/14/21 12:25	01/14/21 14:26	1
Fluoranthene	310	F1 F2	12		ug/Kg	*	01/14/21 12:25	01/14/21 14:26	1
Pyrene	460	F1	12		ug/Kg	*	01/14/21 12:25	01/14/21 14:26	1
Benzo[a]anthracene	270	F1 F2	12		ug/Kg	*	01/14/21 12:25	01/14/21 14:26	1
Chrysene	360	F1 F2	12		ug/Kg	*	01/14/21 12:25	01/14/21 14:26	1
Benzo[b]fluoranthene	440	F1 F2	12		ug/Kg	*	01/14/21 12:25	01/14/21 14:26	1
Benzo[k]fluoranthene	150	F1 F2	12		ug/Kg	*	01/14/21 12:25	01/14/21 14:26	1
Benzo[a]pyrene	420	F1 F2	12		ug/Kg	*	01/14/21 12:25	01/14/21 14:26	1
Indeno[1,2,3-cd]pyrene	220	F1 F2	12		ug/Kg	*	01/14/21 12:25	01/14/21 14:26	1
Dibenz(a,h)anthracene	71	F1	12		ug/Kg	*	01/14/21 12:25	01/14/21 14:26	1
Benzo[g,h,i]perylene	290	F1 F2	12		ug/Kg	*	01/14/21 12:25	01/14/21 14:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	79		33 - 120	01/14/21 12:25	01/14/21 14:26	1
2-Fluorobiphenyl (Surr)	82		47 - 120	01/14/21 12:25	01/14/21 14:26	1
p-Terphenyl-d14	102		74 - 120	01/14/21 12:25	01/14/21 14:26	1

Client Sample ID: TP-91(0-1)

Lab Sample ID: 590-14437-2

Date Collected: 01/04/21 13:08

Matrix: Solid

Date Received: 01/04/21 15:30

Percent Solids: 83.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		11		ug/Kg	*	01/14/21 12:25	01/14/21 15:45	1
2-Methylnaphthalene	ND		11		ug/Kg	*	01/14/21 12:25	01/14/21 15:45	1
1-Methylnaphthalene	ND		11		ug/Kg	*	01/14/21 12:25	01/14/21 15:45	1
Acenaphthylene	ND		11		ug/Kg	*	01/14/21 12:25	01/14/21 15:45	1
Acenaphthene	24		11		ug/Kg	*	01/14/21 12:25	01/14/21 15:45	1
Fluorene	ND		11		ug/Kg	*	01/14/21 12:25	01/14/21 15:45	1
Phenanthrene	150		11		ug/Kg	*	01/14/21 12:25	01/14/21 15:45	1
Anthracene	33		11		ug/Kg	*	01/14/21 12:25	01/14/21 15:45	1
Fluoranthene	390		11		ug/Kg	*	01/14/21 12:25	01/14/21 15:45	1
Pyrene	520		11		ug/Kg	*	01/14/21 12:25	01/14/21 15:45	1
Benzo[a]anthracene	340		11		ug/Kg	*	01/14/21 12:25	01/14/21 15:45	1
Chrysene	430		11		ug/Kg	*	01/14/21 12:25	01/14/21 15:45	1
Benzo[b]fluoranthene	590		11		ug/Kg	*	01/14/21 12:25	01/14/21 15:45	1
Benzo[k]fluoranthene	220		11		ug/Kg	*	01/14/21 12:25	01/14/21 15:45	1
Benzo[a]pyrene	550		11		ug/Kg	*	01/14/21 12:25	01/14/21 15:45	1
Indeno[1,2,3-cd]pyrene	280		11		ug/Kg	*	01/14/21 12:25	01/14/21 15:45	1
Dibenz(a,h)anthracene	91		11		ug/Kg	*	01/14/21 12:25	01/14/21 15:45	1
Benzo[g,h,i]perylene	350		11		ug/Kg	*	01/14/21 12:25	01/14/21 15:45	1

Euofins TestAmerica, Spokane

Client Sample Results

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014004

Job ID: 590-14437-1

Client Sample ID: TP-91(0-1)

Date Collected: 01/04/21 13:08

Date Received: 01/04/21 15:30

Lab Sample ID: 590-14437-2

Matrix: Solid

Percent Solids: 83.8

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	66		33 - 120	01/14/21 12:25	01/14/21 15:45	1
2-Fluorobiphenyl (Surr)	72		47 - 120	01/14/21 12:25	01/14/21 15:45	1
p-Terphenyl-d14	83		74 - 120	01/14/21 12:25	01/14/21 15:45	1

Client Sample ID: TP-90(0-1)

Date Collected: 01/04/21 13:20

Date Received: 01/04/21 15:30

Lab Sample ID: 590-14437-3

Matrix: Solid

Percent Solids: 85.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		11		ug/Kg	☼	01/14/21 12:25	01/14/21 16:11	1
2-Methylnaphthalene	ND		11		ug/Kg	☼	01/14/21 12:25	01/14/21 16:11	1
1-Methylnaphthalene	ND		11		ug/Kg	☼	01/14/21 12:25	01/14/21 16:11	1
Acenaphthylene	ND		11		ug/Kg	☼	01/14/21 12:25	01/14/21 16:11	1
Acenaphthene	ND		11		ug/Kg	☼	01/14/21 12:25	01/14/21 16:11	1
Fluorene	ND		11		ug/Kg	☼	01/14/21 12:25	01/14/21 16:11	1
Phenanthrene	62		11		ug/Kg	☼	01/14/21 12:25	01/14/21 16:11	1
Anthracene	15		11		ug/Kg	☼	01/14/21 12:25	01/14/21 16:11	1
Fluoranthene	99		11		ug/Kg	☼	01/14/21 12:25	01/14/21 16:11	1
Pyrene	150		11		ug/Kg	☼	01/14/21 12:25	01/14/21 16:11	1
Benzo[a]anthracene	92		11		ug/Kg	☼	01/14/21 12:25	01/14/21 16:11	1
Chrysene	130		11		ug/Kg	☼	01/14/21 12:25	01/14/21 16:11	1
Benzo[b]fluoranthene	160		11		ug/Kg	☼	01/14/21 12:25	01/14/21 16:11	1
Benzo[k]fluoranthene	60		11		ug/Kg	☼	01/14/21 12:25	01/14/21 16:11	1
Benzo[a]pyrene	150		11		ug/Kg	☼	01/14/21 12:25	01/14/21 16:11	1
Indeno[1,2,3-cd]pyrene	68		11		ug/Kg	☼	01/14/21 12:25	01/14/21 16:11	1
Dibenz(a,h)anthracene	24		11		ug/Kg	☼	01/14/21 12:25	01/14/21 16:11	1
Benzo[g,h,i]perylene	81		11		ug/Kg	☼	01/14/21 12:25	01/14/21 16:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	69		33 - 120	01/14/21 12:25	01/14/21 16:11	1
2-Fluorobiphenyl (Surr)	79		47 - 120	01/14/21 12:25	01/14/21 16:11	1
p-Terphenyl-d14	89		74 - 120	01/14/21 12:25	01/14/21 16:11	1

Client Sample ID: TP-89(0-1)

Date Collected: 01/04/21 13:40

Date Received: 01/04/21 15:30

Lab Sample ID: 590-14437-4

Matrix: Solid

Percent Solids: 85.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		11		ug/Kg	☼	01/14/21 12:25	01/14/21 16:37	1
2-Methylnaphthalene	ND		11		ug/Kg	☼	01/14/21 12:25	01/14/21 16:37	1
1-Methylnaphthalene	ND		11		ug/Kg	☼	01/14/21 12:25	01/14/21 16:37	1
Acenaphthylene	ND		11		ug/Kg	☼	01/14/21 12:25	01/14/21 16:37	1
Acenaphthene	18		11		ug/Kg	☼	01/14/21 12:25	01/14/21 16:37	1
Fluorene	ND		11		ug/Kg	☼	01/14/21 12:25	01/14/21 16:37	1
Phenanthrene	120		11		ug/Kg	☼	01/14/21 12:25	01/14/21 16:37	1
Anthracene	29		11		ug/Kg	☼	01/14/21 12:25	01/14/21 16:37	1
Fluoranthene	380		11		ug/Kg	☼	01/14/21 12:25	01/14/21 16:37	1
Pyrene	480		11		ug/Kg	☼	01/14/21 12:25	01/14/21 16:37	1
Benzo[a]anthracene	340		11		ug/Kg	☼	01/14/21 12:25	01/14/21 16:37	1

Eurofins TestAmerica, Spokane

Client Sample Results

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014004

Job ID: 590-14437-1

Client Sample ID: TP-89(0-1)

Lab Sample ID: 590-14437-4

Date Collected: 01/04/21 13:40

Matrix: Solid

Date Received: 01/04/21 15:30

Percent Solids: 85.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	450		11		ug/Kg	☼	01/14/21 12:25	01/14/21 16:37	1
Benzo[b]fluoranthene	680		11		ug/Kg	☼	01/14/21 12:25	01/14/21 16:37	1
Benzo[k]fluoranthene	240		11		ug/Kg	☼	01/14/21 12:25	01/14/21 16:37	1
Benzo[a]pyrene	570		11		ug/Kg	☼	01/14/21 12:25	01/14/21 16:37	1
Indeno[1,2,3-cd]pyrene	290		11		ug/Kg	☼	01/14/21 12:25	01/14/21 16:37	1
Dibenz(a,h)anthracene	96		11		ug/Kg	☼	01/14/21 12:25	01/14/21 16:37	1
Benzo[g,h,i]perylene	340		11		ug/Kg	☼	01/14/21 12:25	01/14/21 16:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	68		33 - 120	01/14/21 12:25	01/14/21 16:37	1
2-Fluorobiphenyl (Surr)	77		47 - 120	01/14/21 12:25	01/14/21 16:37	1
p-Terphenyl-d14	100		74 - 120	01/14/21 12:25	01/14/21 16:37	1

Client Sample ID: TP-88(0-1)

Lab Sample ID: 590-14437-5

Date Collected: 01/04/21 13:50

Matrix: Solid

Date Received: 01/04/21 15:30

Percent Solids: 84.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		12		ug/Kg	☼	01/14/21 12:25	01/14/21 17:03	1
2-Methylnaphthalene	ND		12		ug/Kg	☼	01/14/21 12:25	01/14/21 17:03	1
1-Methylnaphthalene	ND		12		ug/Kg	☼	01/14/21 12:25	01/14/21 17:03	1
Acenaphthylene	ND		12		ug/Kg	☼	01/14/21 12:25	01/14/21 17:03	1
Acenaphthene	ND		12		ug/Kg	☼	01/14/21 12:25	01/14/21 17:03	1
Fluorene	ND		12		ug/Kg	☼	01/14/21 12:25	01/14/21 17:03	1
Phenanthrene	ND		12		ug/Kg	☼	01/14/21 12:25	01/14/21 17:03	1
Anthracene	ND		12		ug/Kg	☼	01/14/21 12:25	01/14/21 17:03	1
Fluoranthene	18		12		ug/Kg	☼	01/14/21 12:25	01/14/21 17:03	1
Pyrene	22		12		ug/Kg	☼	01/14/21 12:25	01/14/21 17:03	1
Benzo[a]anthracene	17		12		ug/Kg	☼	01/14/21 12:25	01/14/21 17:03	1
Chrysene	20		12		ug/Kg	☼	01/14/21 12:25	01/14/21 17:03	1
Benzo[b]fluoranthene	27		12		ug/Kg	☼	01/14/21 12:25	01/14/21 17:03	1
Benzo[k]fluoranthene	ND		12		ug/Kg	☼	01/14/21 12:25	01/14/21 17:03	1
Benzo[a]pyrene	25		12		ug/Kg	☼	01/14/21 12:25	01/14/21 17:03	1
Indeno[1,2,3-cd]pyrene	14		12		ug/Kg	☼	01/14/21 12:25	01/14/21 17:03	1
Dibenz(a,h)anthracene	ND		12		ug/Kg	☼	01/14/21 12:25	01/14/21 17:03	1
Benzo[g,h,i]perylene	16		12		ug/Kg	☼	01/14/21 12:25	01/14/21 17:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	61		33 - 120	01/14/21 12:25	01/14/21 17:03	1
2-Fluorobiphenyl (Surr)	68		47 - 120	01/14/21 12:25	01/14/21 17:03	1
p-Terphenyl-d14	89		74 - 120	01/14/21 12:25	01/14/21 17:03	1

Client Sample ID: TP-87(0-1)

Lab Sample ID: 590-14437-6

Date Collected: 01/04/21 14:10

Matrix: Solid

Date Received: 01/04/21 15:30

Percent Solids: 84.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		12		ug/Kg	☼	01/14/21 12:25	01/14/21 17:29	1
2-Methylnaphthalene	ND		12		ug/Kg	☼	01/14/21 12:25	01/14/21 17:29	1

Eurofins TestAmerica, Spokane

Client Sample Results

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014004

Job ID: 590-14437-1

Client Sample ID: TP-87(0-1)

Lab Sample ID: 590-14437-6

Date Collected: 01/04/21 14:10

Matrix: Solid

Date Received: 01/04/21 15:30

Percent Solids: 84.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	ND		12		ug/Kg	⊛	01/14/21 12:25	01/14/21 17:29	1
Acenaphthylene	ND		12		ug/Kg	⊛	01/14/21 12:25	01/14/21 17:29	1
Acenaphthene	ND		12		ug/Kg	⊛	01/14/21 12:25	01/14/21 17:29	1
Fluorene	ND		12		ug/Kg	⊛	01/14/21 12:25	01/14/21 17:29	1
Phenanthrene	ND		12		ug/Kg	⊛	01/14/21 12:25	01/14/21 17:29	1
Anthracene	ND		12		ug/Kg	⊛	01/14/21 12:25	01/14/21 17:29	1
Fluoranthene	ND		12		ug/Kg	⊛	01/14/21 12:25	01/14/21 17:29	1
Pyrene	ND		12		ug/Kg	⊛	01/14/21 12:25	01/14/21 17:29	1
Benzo[a]anthracene	ND		12		ug/Kg	⊛	01/14/21 12:25	01/14/21 17:29	1
Chrysene	12		12		ug/Kg	⊛	01/14/21 12:25	01/14/21 17:29	1
Benzo[b]fluoranthene	18		12		ug/Kg	⊛	01/14/21 12:25	01/14/21 17:29	1
Benzo[k]fluoranthene	ND		12		ug/Kg	⊛	01/14/21 12:25	01/14/21 17:29	1
Benzo[a]pyrene	15		12		ug/Kg	⊛	01/14/21 12:25	01/14/21 17:29	1
Indeno[1,2,3-cd]pyrene	ND		12		ug/Kg	⊛	01/14/21 12:25	01/14/21 17:29	1
Dibenz(a,h)anthracene	ND		12		ug/Kg	⊛	01/14/21 12:25	01/14/21 17:29	1
Benzo[g,h,i]perylene	ND		12		ug/Kg	⊛	01/14/21 12:25	01/14/21 17:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	54		33 - 120	01/14/21 12:25	01/14/21 17:29	1
2-Fluorobiphenyl (Surr)	62		47 - 120	01/14/21 12:25	01/14/21 17:29	1
p-Terphenyl-d14	86		74 - 120	01/14/21 12:25	01/14/21 17:29	1

Client Sample ID: TP-86(0-1)

Lab Sample ID: 590-14437-7

Date Collected: 01/04/21 14:20

Matrix: Solid

Date Received: 01/04/21 15:30

Percent Solids: 85.6

Method: 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	11		2.2		mg/Kg	⊛	01/11/21 13:59	01/13/21 13:55	1

QC Sample Results

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014004

Job ID: 590-14437-1

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

Lab Sample ID: MB 590-30232/1-A
Matrix: Solid
Analysis Batch: 30229

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 30232

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Naphthalene	ND		10		ug/Kg		01/14/21 12:25	01/14/21 13:34	1
2-Methylnaphthalene	ND		10		ug/Kg		01/14/21 12:25	01/14/21 13:34	1
1-Methylnaphthalene	ND		10		ug/Kg		01/14/21 12:25	01/14/21 13:34	1
Acenaphthylene	ND		10		ug/Kg		01/14/21 12:25	01/14/21 13:34	1
Acenaphthene	ND		10		ug/Kg		01/14/21 12:25	01/14/21 13:34	1
Fluorene	ND		10		ug/Kg		01/14/21 12:25	01/14/21 13:34	1
Phenanthrene	ND		10		ug/Kg		01/14/21 12:25	01/14/21 13:34	1
Anthracene	ND		10		ug/Kg		01/14/21 12:25	01/14/21 13:34	1
Fluoranthene	ND		10		ug/Kg		01/14/21 12:25	01/14/21 13:34	1
Pyrene	ND		10		ug/Kg		01/14/21 12:25	01/14/21 13:34	1
Benzo[a]anthracene	ND		10		ug/Kg		01/14/21 12:25	01/14/21 13:34	1
Chrysene	ND		10		ug/Kg		01/14/21 12:25	01/14/21 13:34	1
Benzo[b]fluoranthene	ND		10		ug/Kg		01/14/21 12:25	01/14/21 13:34	1
Benzo[k]fluoranthene	ND		10		ug/Kg		01/14/21 12:25	01/14/21 13:34	1
Benzo[a]pyrene	ND		10		ug/Kg		01/14/21 12:25	01/14/21 13:34	1
Indeno[1,2,3-cd]pyrene	ND		10		ug/Kg		01/14/21 12:25	01/14/21 13:34	1
Dibenz(a,h)anthracene	ND		10		ug/Kg		01/14/21 12:25	01/14/21 13:34	1
Benzo[g,h,i]perylene	ND		10		ug/Kg		01/14/21 12:25	01/14/21 13:34	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
Nitrobenzene-d5	73		33 - 120	01/14/21 12:25	01/14/21 13:34	1
2-Fluorobiphenyl (Surr)	79		47 - 120	01/14/21 12:25	01/14/21 13:34	1
p-Terphenyl-d14	101		74 - 120	01/14/21 12:25	01/14/21 13:34	1

Lab Sample ID: LCS 590-30232/2-A
Matrix: Solid
Analysis Batch: 30229

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 30232

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
Naphthalene	267	219		ug/Kg		82	45 - 120
2-Methylnaphthalene	267	232		ug/Kg		87	48 - 120
1-Methylnaphthalene	267	236		ug/Kg		89	44 - 120
Acenaphthylene	267	240		ug/Kg		90	52 - 120
Acenaphthene	267	254		ug/Kg		95	53 - 120
Fluorene	267	289		ug/Kg		108	55 - 120
Phenanthrene	267	293		ug/Kg		110	57 - 121
Anthracene	267	271		ug/Kg		102	60 - 120
Fluoranthene	267	291		ug/Kg		109	63 - 127
Pyrene	267	314		ug/Kg		118	61 - 125
Benzo[a]anthracene	267	317		ug/Kg		119	61 - 131
Chrysene	267	307		ug/Kg		115	67 - 127
Benzo[b]fluoranthene	267	321		ug/Kg		120	61 - 127
Benzo[k]fluoranthene	267	314		ug/Kg		118	63 - 127
Benzo[a]pyrene	267	312		ug/Kg		117	60 - 126
Indeno[1,2,3-cd]pyrene	267	307		ug/Kg		115	63 - 128
Dibenz(a,h)anthracene	267	304		ug/Kg		114	60 - 121
Benzo[g,h,i]perylene	267	315		ug/Kg		118	58 - 129

Eurofins TestAmerica, Spokane

QC Sample Results

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014004

Job ID: 590-14437-1

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

Lab Sample ID: LCS 590-30232/2-A
Matrix: Solid
Analysis Batch: 30229

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 30232

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
Nitrobenzene-d5	81		33 - 120
2-Fluorobiphenyl (Surr)	85		47 - 120
p-Terphenyl-d14	98		74 - 120

Lab Sample ID: 590-14437-1 MS
Matrix: Solid
Analysis Batch: 30229

Client Sample ID: TP-92(0-1)
Prep Type: Total/NA
Prep Batch: 30232

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.	Limits
	Result	Qualifier	Added	Result	Qualifier					
Naphthalene	ND		318	248		ug/Kg	☼	77		45 - 120
2-Methylnaphthalene	ND		318	275		ug/Kg	☼	85		48 - 120
1-Methylnaphthalene	ND		318	273		ug/Kg	☼	84		44 - 120
Acenaphthylene	ND		318	280		ug/Kg	☼	88		52 - 120
Acenaphthene	16		318	335		ug/Kg	☼	100		53 - 120
Fluorene	ND		318	355		ug/Kg	☼	109		55 - 120
Phenanthrene	180		318	536		ug/Kg	☼	111		57 - 121
Anthracene	35		318	379		ug/Kg	☼	108		60 - 120
Fluoranthene	310	F1 F2	318	1080	F1	ug/Kg	☼	240		63 - 127
Pyrene	460	F1	318	1180	F1	ug/Kg	☼	229		61 - 125
Benzo[a]anthracene	270	F1 F2	318	1020	F1	ug/Kg	☼	235		61 - 131
Chrysene	360	F1 F2	318	1160	F1	ug/Kg	☼	255		67 - 127
Benzo[b]fluoranthene	440	F1 F2	318	1580	F1	ug/Kg	☼	357		61 - 127
Benzo[k]fluoranthene	150	F1 F2	318	811	F1	ug/Kg	☼	209		63 - 127
Benzo[a]pyrene	420	F1 F2	318	1360	F1	ug/Kg	☼	294		60 - 126
Indeno[1,2,3-cd]pyrene	220	F1 F2	318	936	F1	ug/Kg	☼	225		63 - 128
Dibenz(a,h)anthracene	71	F1	318	535	F1	ug/Kg	☼	146		60 - 121
Benzo[g,h,i]perylene	290	F1 F2	318	1060	F1	ug/Kg	☼	243		58 - 129

Surrogate	MS MS		Limits
	%Recovery	Qualifier	
Nitrobenzene-d5	68		33 - 120
2-Fluorobiphenyl (Surr)	75		47 - 120
p-Terphenyl-d14	88		74 - 120

Lab Sample ID: 590-14437-1 MSD
Matrix: Solid
Analysis Batch: 30229

Client Sample ID: TP-92(0-1)
Prep Type: Total/NA
Prep Batch: 30232

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	Limits	RPD	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier								
Naphthalene	ND		317	246		ug/Kg	☼	76		45 - 120	1	20	
2-Methylnaphthalene	ND		317	272		ug/Kg	☼	84		48 - 120	1	20	
1-Methylnaphthalene	ND		317	261		ug/Kg	☼	80		44 - 120	4	14	
Acenaphthylene	ND		317	273		ug/Kg	☼	86		52 - 120	2	20	
Acenaphthene	16		317	318		ug/Kg	☼	95		53 - 120	5	11	
Fluorene	ND		317	333		ug/Kg	☼	102		55 - 120	6	21	
Phenanthrene	180		317	516		ug/Kg	☼	105		57 - 121	4	18	
Anthracene	35		317	355		ug/Kg	☼	101		60 - 120	7	18	
Fluoranthene	310	F1 F2	317	846	F1 F2	ug/Kg	☼	168		63 - 127	24	18	
Pyrene	460	F1	317	965	F1	ug/Kg	☼	160		61 - 125	20	26	

Eurofins TestAmerica, Spokane

QC Sample Results

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014004

Job ID: 590-14437-1

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

Lab Sample ID: 590-14437-1 MSD
Matrix: Solid
Analysis Batch: 30229

Client Sample ID: TP-92(0-1)
Prep Type: Total/NA
Prep Batch: 30232

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier						
Benzo[a]anthracene	270	F1 F2	317	793	F1 F2	ug/Kg	⊛	165	61 - 131	25	16
Chrysene	360	F1 F2	317	883	F1 F2	ug/Kg	⊛	166	67 - 127	27	15
Benzo[b]fluoranthene	440	F1 F2	317	1150	F1 F2	ug/Kg	⊛	224	61 - 127	31	16
Benzo[k]fluoranthene	150	F1 F2	317	655	F1 F2	ug/Kg	⊛	160	63 - 127	21	16
Benzo[a]pyrene	420	F1 F2	317	1020	F1 F2	ug/Kg	⊛	189	60 - 126	28	20
Indeno[1,2,3-cd]pyrene	220	F1 F2	317	734	F1 F2	ug/Kg	⊛	162	63 - 128	24	18
Dibenz(a,h)anthracene	71	F1	317	460	F1	ug/Kg	⊛	122	60 - 121	15	18
Benzo[g,h,i]perylene	290	F1 F2	317	833	F1 F2	ug/Kg	⊛	172	58 - 129	24	17
Surrogate	MSD	MSD									
	%Recovery	Qualifier	Limits								
Nitrobenzene-d5	70		33 - 120								
2-Fluorobiphenyl (Surr)	76		47 - 120								
p-Terphenyl-d14	83		74 - 120								

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 590-30202/2-A
Matrix: Solid
Analysis Batch: 30223

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 30202

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Lead	ND		3.0		mg/Kg		01/11/21 13:59	01/13/21 12:14	1

Lab Sample ID: LCS 590-30202/1-A
Matrix: Solid
Analysis Batch: 30223

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 30202

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec.	Limits
		Result	Qualifier					
Lead	25.0	25.4		mg/Kg		102		80 - 120

Lab Chronicle

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014004

Job ID: 590-14437-1

Client Sample ID: TP-92(0-1)

Date Collected: 01/04/21 12:50

Date Received: 01/04/21 15:30

Lab Sample ID: 590-14437-1

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			30184	01/06/21 12:58	NMI	TAL SPK

Client Sample ID: TP-92(0-1)

Date Collected: 01/04/21 12:50

Date Received: 01/04/21 15:30

Lab Sample ID: 590-14437-1

Matrix: Solid

Percent Solids: 82.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			15.35 g	2 mL	30232	01/14/21 12:25	NMI	TAL SPK
Total/NA	Analysis	8270E SIM		1			30229	01/14/21 14:26	NMI	TAL SPK

Client Sample ID: TP-91(0-1)

Date Collected: 01/04/21 13:08

Date Received: 01/04/21 15:30

Lab Sample ID: 590-14437-2

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			30184	01/06/21 12:58	NMI	TAL SPK

Client Sample ID: TP-91(0-1)

Date Collected: 01/04/21 13:08

Date Received: 01/04/21 15:30

Lab Sample ID: 590-14437-2

Matrix: Solid

Percent Solids: 83.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			15.57 g	2 mL	30232	01/14/21 12:25	NMI	TAL SPK
Total/NA	Analysis	8270E SIM		1			30229	01/14/21 15:45	NMI	TAL SPK

Client Sample ID: TP-90(0-1)

Date Collected: 01/04/21 13:20

Date Received: 01/04/21 15:30

Lab Sample ID: 590-14437-3

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			30184	01/06/21 12:58	NMI	TAL SPK

Client Sample ID: TP-90(0-1)

Date Collected: 01/04/21 13:20

Date Received: 01/04/21 15:30

Lab Sample ID: 590-14437-3

Matrix: Solid

Percent Solids: 85.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			15.71 g	2 mL	30232	01/14/21 12:25	NMI	TAL SPK
Total/NA	Analysis	8270E SIM		1			30229	01/14/21 16:11	NMI	TAL SPK

Client Sample ID: TP-89(0-1)

Date Collected: 01/04/21 13:40

Date Received: 01/04/21 15:30

Lab Sample ID: 590-14437-4

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			30184	01/06/21 12:58	NMI	TAL SPK

Eurofins TestAmerica, Spokane

Lab Chronicle

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014004

Job ID: 590-14437-1

Client Sample ID: TP-89(0-1)

Date Collected: 01/04/21 13:40

Date Received: 01/04/21 15:30

Lab Sample ID: 590-14437-4

Matrix: Solid

Percent Solids: 85.1

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	30232	01/14/21 12:25	NMI	TAL SPK
Total/NA	Analysis	8270E SIM		1			30229	01/14/21 16:37	NMI	TAL SPK

Client Sample ID: TP-88(0-1)

Date Collected: 01/04/21 13:50

Date Received: 01/04/21 15:30

Lab Sample ID: 590-14437-5

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			30184	01/06/21 12:58	NMI	TAL SPK

Client Sample ID: TP-88(0-1)

Date Collected: 01/04/21 13:50

Date Received: 01/04/21 15:30

Lab Sample ID: 590-14437-5

Matrix: Solid

Percent Solids: 84.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			15.11 g	2 mL	30232	01/14/21 12:25	NMI	TAL SPK
Total/NA	Analysis	8270E SIM		1			30229	01/14/21 17:03	NMI	TAL SPK

Client Sample ID: TP-87(0-1)

Date Collected: 01/04/21 14:10

Date Received: 01/04/21 15:30

Lab Sample ID: 590-14437-6

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			30184	01/06/21 12:58	NMI	TAL SPK

Client Sample ID: TP-87(0-1)

Date Collected: 01/04/21 14:10

Date Received: 01/04/21 15:30

Lab Sample ID: 590-14437-6

Matrix: Solid

Percent Solids: 84.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			15.02 g	2 mL	30232	01/14/21 12:25	NMI	TAL SPK
Total/NA	Analysis	8270E SIM		1			30229	01/14/21 17:29	NMI	TAL SPK

Client Sample ID: TP-86(0-1)

Date Collected: 01/04/21 14:20

Date Received: 01/04/21 15:30

Lab Sample ID: 590-14437-7

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			30184	01/06/21 12:58	NMI	TAL SPK

Lab Chronicle

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014004

Job ID: 590-14437-1

Client Sample ID: TP-86(0-1)

Lab Sample ID: 590-14437-7

Date Collected: 01/04/21 14:20

Matrix: Solid

Date Received: 01/04/21 15:30

Percent Solids: 85.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			1.61 g	50 mL	30202	01/11/21 13:59	JSP	TAL SPK
Total/NA	Analysis	6010D		1			30223	01/13/21 13:55	AMB	TAL SPK

Laboratory References:

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



Accreditation/Certification Summary

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014004

Job ID: 590-14437-1

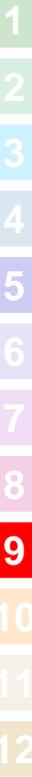
Laboratory: Eurofins TestAmerica, Spokane

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

<u>Authority</u>	<u>Program</u>	<u>Identification Number</u>	<u>Expiration Date</u>
Washington	State	C569	01-06-22

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

<u>Analysis Method</u>	<u>Prep Method</u>	<u>Matrix</u>	<u>Analyte</u>
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids



Method Summary

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014004

Job ID: 590-14437-1

Method	Method Description	Protocol	Laboratory
8270E SIM	Semivolatile Organic Compounds (GC/MS SIM)	SW846	TAL SPK
6010D	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 = Eurofins TestAmerica, Spokane, 11922 East 1st Ave, Spokane, WA 99206, TEL (509)924-9200



Login Sample Receipt Checklist

Client: Hart Crowser, Inc.

Job Number: 590-14437-1

Login Number: 14437

List Number: 1

Creator: O'Toole, Maria C

List Source: Eurofins TestAmerica, Spokane

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.	N/A	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.



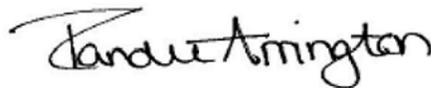
ANALYTICAL REPORT

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

Laboratory Job ID: 590-14472-1
Client Project/Site: CVSD/15014004

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

Attn: John Haney



*Authorized for release by:
1/21/2021 5:33:34 PM*

Randee Arrington, Project Manager II
(509)924-9200
Randee.Arrington@Eurofinset.com

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



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Case Narrative

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014004

Job ID: 590-14472-1

Job ID: 590-14472-1

Laboratory: Eurofins TestAmerica, Spokane

Narrative

Receipt

The samples were received on 1/12/2021 2:24 PM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 5.3° C.

Receipt Exceptions

Method 8270E SIM: The following samples were received outside of holding time: SB-1(3'-4') (590-14472-1), SB-5(7'-8') (590-14472-3), SB-8(4'-5') (590-14472-4), SB-13(4'-5') (590-14472-5) and SB-16(3'-4') (590-14472-6).

GC/MS Semi VOA

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

Metals

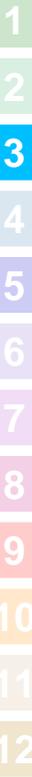
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

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: CVSD/15014004

Job ID: 590-14472-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
590-14472-1	SB-1(3'-4')	Solid	10/06/20 09:53	01/12/21 14:24	
590-14472-2	SB-3(3'-4')	Solid	10/06/20 10:33	01/12/21 14:24	
590-14472-3	SB-5(7'-8')	Solid	10/06/20 15:54	01/12/21 14:24	
590-14472-4	SB-8(4'-5')	Solid	10/05/20 15:54	01/12/21 14:24	
590-14472-5	SB-13(4'-5')	Solid	10/05/20 14:44	01/12/21 14:24	
590-14472-6	SB-16(3'-4')	Solid	10/05/20 14:13	01/12/21 14:24	

Definitions/Glossary

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014004

Job ID: 590-14472-1

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
H3	Sample was received and analyzed past holding time.

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
CFU	Colony Forming Unit
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)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
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)
TNTC	Too Numerous To Count

Client Sample Results

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014004

Job ID: 590-14472-1

Client Sample ID: SB-1(3'-4')

Lab Sample ID: 590-14472-1

Date Collected: 10/06/20 09:53

Matrix: Solid

Date Received: 01/12/21 14:24

Percent Solids: 95.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND	H3	10		ug/Kg	✱	01/14/21 12:25	01/14/21 20:32	1
2-Methylnaphthalene	ND	H3	10		ug/Kg	✱	01/14/21 12:25	01/14/21 20:32	1
1-Methylnaphthalene	ND	H3	10		ug/Kg	✱	01/14/21 12:25	01/14/21 20:32	1
Acenaphthylene	ND	H3	10		ug/Kg	✱	01/14/21 12:25	01/14/21 20:32	1
Acenaphthene	ND	H3	10		ug/Kg	✱	01/14/21 12:25	01/14/21 20:32	1
Fluorene	ND	H3	10		ug/Kg	✱	01/14/21 12:25	01/14/21 20:32	1
Phenanthrene	21	H3	10		ug/Kg	✱	01/14/21 12:25	01/14/21 20:32	1
Anthracene	ND	H3	10		ug/Kg	✱	01/14/21 12:25	01/14/21 20:32	1
Fluoranthene	60	H3	10		ug/Kg	✱	01/14/21 12:25	01/14/21 20:32	1
Pyrene	73	H3	10		ug/Kg	✱	01/14/21 12:25	01/14/21 20:32	1
Benzo[a]anthracene	57	H3	10		ug/Kg	✱	01/14/21 12:25	01/14/21 20:32	1
Chrysene	68	H3	10		ug/Kg	✱	01/14/21 12:25	01/14/21 20:32	1
Benzo[b]fluoranthene	110	H3	10		ug/Kg	✱	01/14/21 12:25	01/14/21 20:32	1
Benzo[k]fluoranthene	45	H3	10		ug/Kg	✱	01/14/21 12:25	01/14/21 20:32	1
Benzo[a]pyrene	86	H3	10		ug/Kg	✱	01/14/21 12:25	01/14/21 20:32	1
Indeno[1,2,3-cd]pyrene	37	H3	10		ug/Kg	✱	01/14/21 12:25	01/14/21 20:32	1
Dibenz(a,h)anthracene	14	H3	10		ug/Kg	✱	01/14/21 12:25	01/14/21 20:32	1
Benzo[g,h,i]perylene	41	H3	10		ug/Kg	✱	01/14/21 12:25	01/14/21 20:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	58		33 - 120	01/14/21 12:25	01/14/21 20:32	1
2-Fluorobiphenyl (Surr)	65		47 - 120	01/14/21 12:25	01/14/21 20:32	1
p-Terphenyl-d14	87		74 - 120	01/14/21 12:25	01/14/21 20:32	1

Client Sample ID: SB-3(3'-4')

Lab Sample ID: 590-14472-2

Date Collected: 10/06/20 10:33

Matrix: Solid

Date Received: 01/12/21 14:24

Percent Solids: 95.5

Method: 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	21		2.1		mg/Kg	✱	01/19/21 08:21	01/21/21 14:41	1

Client Sample ID: SB-5(7'-8')

Lab Sample ID: 590-14472-3

Date Collected: 10/06/20 15:54

Matrix: Solid

Date Received: 01/12/21 14:24

Percent Solids: 96.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND	H3	10		ug/Kg	✱	01/14/21 12:25	01/14/21 20:58	1
2-Methylnaphthalene	ND	H3	10		ug/Kg	✱	01/14/21 12:25	01/14/21 20:58	1
1-Methylnaphthalene	ND	H3	10		ug/Kg	✱	01/14/21 12:25	01/14/21 20:58	1
Acenaphthylene	ND	H3	10		ug/Kg	✱	01/14/21 12:25	01/14/21 20:58	1
Acenaphthene	ND	H3	10		ug/Kg	✱	01/14/21 12:25	01/14/21 20:58	1
Fluorene	ND	H3	10		ug/Kg	✱	01/14/21 12:25	01/14/21 20:58	1
Phenanthrene	ND	H3	10		ug/Kg	✱	01/14/21 12:25	01/14/21 20:58	1
Anthracene	ND	H3	10		ug/Kg	✱	01/14/21 12:25	01/14/21 20:58	1
Fluoranthene	ND	H3	10		ug/Kg	✱	01/14/21 12:25	01/14/21 20:58	1
Pyrene	ND	H3	10		ug/Kg	✱	01/14/21 12:25	01/14/21 20:58	1
Benzo[a]anthracene	ND	H3	10		ug/Kg	✱	01/14/21 12:25	01/14/21 20:58	1
Chrysene	ND	H3	10		ug/Kg	✱	01/14/21 12:25	01/14/21 20:58	1
Benzo[b]fluoranthene	13	H3	10		ug/Kg	✱	01/14/21 12:25	01/14/21 20:58	1

Eurofins TestAmerica, Spokane

Client Sample Results

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014004

Job ID: 590-14472-1

Client Sample ID: SB-5(7'-8')

Lab Sample ID: 590-14472-3

Date Collected: 10/06/20 15:54

Matrix: Solid

Date Received: 01/12/21 14:24

Percent Solids: 96.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	ND	H3	10		ug/Kg	☼	01/14/21 12:25	01/14/21 20:58	1
Benzo[a]pyrene	10	H3	10		ug/Kg	☼	01/14/21 12:25	01/14/21 20:58	1
Indeno[1,2,3-cd]pyrene	ND	H3	10		ug/Kg	☼	01/14/21 12:25	01/14/21 20:58	1
Dibenz(a,h)anthracene	ND	H3	10		ug/Kg	☼	01/14/21 12:25	01/14/21 20:58	1
Benzo[g,h,i]perylene	ND	H3	10		ug/Kg	☼	01/14/21 12:25	01/14/21 20:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	67		33 - 120	01/14/21 12:25	01/14/21 20:58	1
2-Fluorobiphenyl (Surr)	73		47 - 120	01/14/21 12:25	01/14/21 20:58	1
p-Terphenyl-d14	94		74 - 120	01/14/21 12:25	01/14/21 20:58	1

Client Sample ID: SB-8(4'-5')

Lab Sample ID: 590-14472-4

Date Collected: 10/05/20 15:54

Matrix: Solid

Date Received: 01/12/21 14:24

Percent Solids: 93.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND	H3	100		ug/Kg	☼	01/14/21 12:25	01/14/21 21:24	10
2-Methylnaphthalene	ND	H3	100		ug/Kg	☼	01/14/21 12:25	01/14/21 21:24	10
1-Methylnaphthalene	ND	H3	100		ug/Kg	☼	01/14/21 12:25	01/14/21 21:24	10
Acenaphthylene	ND	H3	100		ug/Kg	☼	01/14/21 12:25	01/14/21 21:24	10
Acenaphthene	270	H3	100		ug/Kg	☼	01/14/21 12:25	01/14/21 21:24	10
Fluorene	ND	H3	100		ug/Kg	☼	01/14/21 12:25	01/14/21 21:24	10
Phenanthrene	1500	H3	100		ug/Kg	☼	01/14/21 12:25	01/14/21 21:24	10
Anthracene	410	H3	100		ug/Kg	☼	01/14/21 12:25	01/14/21 21:24	10
Fluoranthene	3600	H3	100		ug/Kg	☼	01/14/21 12:25	01/14/21 21:24	10
Pyrene	4000	H3	100		ug/Kg	☼	01/14/21 12:25	01/14/21 21:24	10
Benzo[a]anthracene	3000	H3	100		ug/Kg	☼	01/14/21 12:25	01/14/21 21:24	10
Chrysene	3300	H3	100		ug/Kg	☼	01/14/21 12:25	01/14/21 21:24	10
Benzo[b]fluoranthene	5700	H3	100		ug/Kg	☼	01/14/21 12:25	01/14/21 21:24	10
Benzo[k]fluoranthene	1800	H3	100		ug/Kg	☼	01/14/21 12:25	01/14/21 21:24	10
Benzo[a]pyrene	5100	H3	100		ug/Kg	☼	01/14/21 12:25	01/14/21 21:24	10
Indeno[1,2,3-cd]pyrene	1800	H3	100		ug/Kg	☼	01/14/21 12:25	01/14/21 21:24	10
Dibenz(a,h)anthracene	640	H3	100		ug/Kg	☼	01/14/21 12:25	01/14/21 21:24	10
Benzo[g,h,i]perylene	2100	H3	100		ug/Kg	☼	01/14/21 12:25	01/14/21 21:24	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	70		33 - 120	01/14/21 12:25	01/14/21 21:24	10
2-Fluorobiphenyl (Surr)	79		47 - 120	01/14/21 12:25	01/14/21 21:24	10
p-Terphenyl-d14	89		74 - 120	01/14/21 12:25	01/14/21 21:24	10

Client Sample ID: SB-13(4'-5')

Lab Sample ID: 590-14472-5

Date Collected: 10/05/20 14:44

Matrix: Solid

Date Received: 01/12/21 14:24

Percent Solids: 95.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND	H3	200		ug/Kg	☼	01/14/21 12:25	01/14/21 21:50	20
2-Methylnaphthalene	ND	H3	200		ug/Kg	☼	01/14/21 12:25	01/14/21 21:50	20
1-Methylnaphthalene	ND	H3	200		ug/Kg	☼	01/14/21 12:25	01/14/21 21:50	20
Acenaphthylene	ND	H3	200		ug/Kg	☼	01/14/21 12:25	01/14/21 21:50	20

Eurofins TestAmerica, Spokane

Client Sample Results

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014004

Job ID: 590-14472-1

Client Sample ID: SB-13(4'-5')

Lab Sample ID: 590-14472-5

Date Collected: 10/05/20 14:44

Matrix: Solid

Date Received: 01/12/21 14:24

Percent Solids: 95.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	670	H3	200		ug/Kg	*	01/14/21 12:25	01/14/21 21:50	20
Fluorene	310	H3	200		ug/Kg	*	01/14/21 12:25	01/14/21 21:50	20
Phenanthrene	4700	H3	200		ug/Kg	*	01/14/21 12:25	01/14/21 21:50	20
Anthracene	1200	H3	200		ug/Kg	*	01/14/21 12:25	01/14/21 21:50	20
Fluoranthene	10000	H3	200		ug/Kg	*	01/14/21 12:25	01/14/21 21:50	20
Pyrene	14000	H3	200		ug/Kg	*	01/14/21 12:25	01/14/21 21:50	20
Benzo[a]anthracene	11000	H3	200		ug/Kg	*	01/14/21 12:25	01/14/21 21:50	20
Chrysene	14000	H3	200		ug/Kg	*	01/14/21 12:25	01/14/21 21:50	20
Benzo[b]fluoranthene	20000	H3	200		ug/Kg	*	01/14/21 12:25	01/14/21 21:50	20
Benzo[k]fluoranthene	7700	H3	200		ug/Kg	*	01/14/21 12:25	01/14/21 21:50	20
Benzo[a]pyrene	19000	H3	200		ug/Kg	*	01/14/21 12:25	01/14/21 21:50	20
Indeno[1,2,3-cd]pyrene	6700	H3	200		ug/Kg	*	01/14/21 12:25	01/14/21 21:50	20
Dibenz(a,h)anthracene	2400	H3	200		ug/Kg	*	01/14/21 12:25	01/14/21 21:50	20
Benzo[g,h,i]perylene	8200	H3	200		ug/Kg	*	01/14/21 12:25	01/14/21 21:50	20
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	69		33 - 120				01/14/21 12:25	01/14/21 21:50	20
2-Fluorobiphenyl (Surr)	93		47 - 120				01/14/21 12:25	01/14/21 21:50	20
p-Terphenyl-d14	102		74 - 120				01/14/21 12:25	01/14/21 21:50	20

Client Sample ID: SB-16(3'-4')

Lab Sample ID: 590-14472-6

Date Collected: 10/05/20 14:13

Matrix: Solid

Date Received: 01/12/21 14:24

Percent Solids: 97.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND	H3	9.8		ug/Kg	*	01/14/21 12:25	01/14/21 22:16	1
2-Methylnaphthalene	ND	H3	9.8		ug/Kg	*	01/14/21 12:25	01/14/21 22:16	1
1-Methylnaphthalene	ND	H3	9.8		ug/Kg	*	01/14/21 12:25	01/14/21 22:16	1
Acenaphthylene	ND	H3	9.8		ug/Kg	*	01/14/21 12:25	01/14/21 22:16	1
Acenaphthene	81	H3	9.8		ug/Kg	*	01/14/21 12:25	01/14/21 22:16	1
Fluorene	27	H3	9.8		ug/Kg	*	01/14/21 12:25	01/14/21 22:16	1
Phenanthrene	460	H3	9.8		ug/Kg	*	01/14/21 12:25	01/14/21 22:16	1
Anthracene	110	H3	9.8		ug/Kg	*	01/14/21 12:25	01/14/21 22:16	1
Fluoranthene	1100	H3	9.8		ug/Kg	*	01/14/21 12:25	01/14/21 22:16	1
Pyrene	1300	H3	9.8		ug/Kg	*	01/14/21 12:25	01/14/21 22:16	1
Benzo[a]anthracene	970	H3	9.8		ug/Kg	*	01/14/21 12:25	01/14/21 22:16	1
Chrysene	1100	H3	9.8		ug/Kg	*	01/14/21 12:25	01/14/21 22:16	1
Benzo[b]fluoranthene	1500	H3	98		ug/Kg	*	01/14/21 12:25	01/15/21 12:07	10
Benzo[k]fluoranthene	550	H3	9.8		ug/Kg	*	01/14/21 12:25	01/14/21 22:16	1
Benzo[a]pyrene	1400	H3	98		ug/Kg	*	01/14/21 12:25	01/15/21 12:07	10
Indeno[1,2,3-cd]pyrene	540	H3	9.8		ug/Kg	*	01/14/21 12:25	01/14/21 22:16	1
Dibenz(a,h)anthracene	190	H3	9.8		ug/Kg	*	01/14/21 12:25	01/14/21 22:16	1
Benzo[g,h,i]perylene	590	H3	9.8		ug/Kg	*	01/14/21 12:25	01/14/21 22:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	77		33 - 120				01/14/21 12:25	01/14/21 22:16	1
Nitrobenzene-d5	78		33 - 120				01/14/21 12:25	01/15/21 12:07	10
2-Fluorobiphenyl (Surr)	84		47 - 120				01/14/21 12:25	01/14/21 22:16	1
2-Fluorobiphenyl (Surr)	84		47 - 120				01/14/21 12:25	01/15/21 12:07	10

Eurofins TestAmerica, Spokane

Client Sample Results

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014004

Job ID: 590-14472-1

Client Sample ID: SB-16(3'-4')

Lab Sample ID: 590-14472-6

Date Collected: 10/05/20 14:13

Matrix: Solid

Date Received: 01/12/21 14:24

Percent Solids: 97.0

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

<u>Surrogate</u>	<u>%Recovery</u>	<u>Qualifier</u>	<u>Limits</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Dil Fac</u>
p-Terphenyl-d14	95		74 - 120	01/14/21 12:25	01/14/21 22:16	1
p-Terphenyl-d14	94		74 - 120	01/14/21 12:25	01/15/21 12:07	10

QC Sample Results

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014004

Job ID: 590-14472-1

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

Lab Sample ID: MB 590-30232/1-A
Matrix: Solid
Analysis Batch: 30229

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 30232

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Naphthalene	ND		10		ug/Kg		01/14/21 12:25	01/14/21 13:34	1
2-Methylnaphthalene	ND		10		ug/Kg		01/14/21 12:25	01/14/21 13:34	1
1-Methylnaphthalene	ND		10		ug/Kg		01/14/21 12:25	01/14/21 13:34	1
Acenaphthylene	ND		10		ug/Kg		01/14/21 12:25	01/14/21 13:34	1
Acenaphthene	ND		10		ug/Kg		01/14/21 12:25	01/14/21 13:34	1
Fluorene	ND		10		ug/Kg		01/14/21 12:25	01/14/21 13:34	1
Phenanthrene	ND		10		ug/Kg		01/14/21 12:25	01/14/21 13:34	1
Anthracene	ND		10		ug/Kg		01/14/21 12:25	01/14/21 13:34	1
Fluoranthene	ND		10		ug/Kg		01/14/21 12:25	01/14/21 13:34	1
Pyrene	ND		10		ug/Kg		01/14/21 12:25	01/14/21 13:34	1
Benzo[a]anthracene	ND		10		ug/Kg		01/14/21 12:25	01/14/21 13:34	1
Chrysene	ND		10		ug/Kg		01/14/21 12:25	01/14/21 13:34	1
Benzo[b]fluoranthene	ND		10		ug/Kg		01/14/21 12:25	01/14/21 13:34	1
Benzo[k]fluoranthene	ND		10		ug/Kg		01/14/21 12:25	01/14/21 13:34	1
Benzo[a]pyrene	ND		10		ug/Kg		01/14/21 12:25	01/14/21 13:34	1
Indeno[1,2,3-cd]pyrene	ND		10		ug/Kg		01/14/21 12:25	01/14/21 13:34	1
Dibenz(a,h)anthracene	ND		10		ug/Kg		01/14/21 12:25	01/14/21 13:34	1
Benzo[g,h,i]perylene	ND		10		ug/Kg		01/14/21 12:25	01/14/21 13:34	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
Nitrobenzene-d5	73		33 - 120	01/14/21 12:25	01/14/21 13:34	1
2-Fluorobiphenyl (Surr)	79		47 - 120	01/14/21 12:25	01/14/21 13:34	1
p-Terphenyl-d14	101		74 - 120	01/14/21 12:25	01/14/21 13:34	1

Lab Sample ID: LCS 590-30232/2-A
Matrix: Solid
Analysis Batch: 30229

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 30232

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
Naphthalene	267	219		ug/Kg		82	45 - 120
2-Methylnaphthalene	267	232		ug/Kg		87	48 - 120
1-Methylnaphthalene	267	236		ug/Kg		89	44 - 120
Acenaphthylene	267	240		ug/Kg		90	52 - 120
Acenaphthene	267	254		ug/Kg		95	53 - 120
Fluorene	267	289		ug/Kg		108	55 - 120
Phenanthrene	267	293		ug/Kg		110	57 - 121
Anthracene	267	271		ug/Kg		102	60 - 120
Fluoranthene	267	291		ug/Kg		109	63 - 127
Pyrene	267	314		ug/Kg		118	61 - 125
Benzo[a]anthracene	267	317		ug/Kg		119	61 - 131
Chrysene	267	307		ug/Kg		115	67 - 127
Benzo[b]fluoranthene	267	321		ug/Kg		120	61 - 127
Benzo[k]fluoranthene	267	314		ug/Kg		118	63 - 127
Benzo[a]pyrene	267	312		ug/Kg		117	60 - 126
Indeno[1,2,3-cd]pyrene	267	307		ug/Kg		115	63 - 128
Dibenz(a,h)anthracene	267	304		ug/Kg		114	60 - 121
Benzo[g,h,i]perylene	267	315		ug/Kg		118	58 - 129

Eurofins TestAmerica, Spokane

QC Sample Results

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014004

Job ID: 590-14472-1

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

Lab Sample ID: LCS 590-30232/2-A
Matrix: Solid
Analysis Batch: 30229

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 30232

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
Nitrobenzene-d5	81		33 - 120
2-Fluorobiphenyl (Surr)	85		47 - 120
p-Terphenyl-d14	98		74 - 120

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 590-30261/2-A
Matrix: Solid
Analysis Batch: 30298

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 30261

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Lead	ND		3.0		mg/Kg		01/19/21 08:21	01/21/21 13:50	1

Lab Sample ID: LCS 590-30261/1-A
Matrix: Solid
Analysis Batch: 30298

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 30261

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
Lead	50.0	51.5		mg/Kg		103	80 - 120

Lab Chronicle

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014004

Job ID: 590-14472-1

Client Sample ID: SB-1(3'-4')

Date Collected: 10/06/20 09:53

Date Received: 01/12/21 14:24

Lab Sample ID: 590-14472-1

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			30225	01/14/21 08:13	AMB	TAL SPK

Client Sample ID: SB-1(3'-4')

Date Collected: 10/06/20 09:53

Date Received: 01/12/21 14:24

Lab Sample ID: 590-14472-1

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	3550C			15.28 g	2 mL	30232	01/14/21 12:25	NMI	TAL SPK
Total/NA	Analysis	8270E SIM		1			30229	01/14/21 20:32	NMI	TAL SPK

Client Sample ID: SB-3(3'-4')

Date Collected: 10/06/20 10:33

Date Received: 01/12/21 14:24

Lab Sample ID: 590-14472-2

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			30225	01/14/21 08:13	AMB	TAL SPK

Client Sample ID: SB-3(3'-4')

Date Collected: 10/06/20 10:33

Date Received: 01/12/21 14:24

Lab Sample ID: 590-14472-2

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			1.53 g	50 mL	30261	01/19/21 08:21	AMB	TAL SPK
Total/NA	Analysis	6010D		1			30298	01/21/21 14:41	JSP	TAL SPK

Client Sample ID: SB-5(7'-8')

Date Collected: 10/06/20 15:54

Date Received: 01/12/21 14:24

Lab Sample ID: 590-14472-3

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			30225	01/14/21 08:13	AMB	TAL SPK

Client Sample ID: SB-5(7'-8')

Date Collected: 10/06/20 15:54

Date Received: 01/12/21 14:24

Lab Sample ID: 590-14472-3

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			15.57 g	2 mL	30232	01/14/21 12:25	NMI	TAL SPK
Total/NA	Analysis	8270E SIM		1			30229	01/14/21 20:58	NMI	TAL SPK

Client Sample ID: SB-8(4'-5')

Date Collected: 10/05/20 15:54

Date Received: 01/12/21 14:24

Lab Sample ID: 590-14472-4

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			30225	01/14/21 08:13	AMB	TAL SPK

Eurofins TestAmerica, Spokane

Lab Chronicle

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014004

Job ID: 590-14472-1

Client Sample ID: SB-8(4'-5')

Date Collected: 10/05/20 15:54

Date Received: 01/12/21 14:24

Lab Sample ID: 590-14472-4

Matrix: Solid

Percent Solids: 93.3

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	30232	01/14/21 12:25	NMI	TAL SPK
Total/NA	Analysis	8270E SIM		10			30229	01/14/21 21:24	NMI	TAL SPK

Client Sample ID: SB-13(4'-5')

Date Collected: 10/05/20 14:44

Date Received: 01/12/21 14:24

Lab Sample ID: 590-14472-5

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			30225	01/14/21 08:13	AMB	TAL SPK

Client Sample ID: SB-13(4'-5')

Date Collected: 10/05/20 14:44

Date Received: 01/12/21 14:24

Lab Sample ID: 590-14472-5

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	3550C			15.64 g	2 mL	30232	01/14/21 12:25	NMI	TAL SPK
Total/NA	Analysis	8270E SIM		20			30229	01/14/21 21:50	NMI	TAL SPK

Client Sample ID: SB-16(3'-4')

Date Collected: 10/05/20 14:13

Date Received: 01/12/21 14:24

Lab Sample ID: 590-14472-6

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			30225	01/14/21 08:13	AMB	TAL SPK

Client Sample ID: SB-16(3'-4')

Date Collected: 10/05/20 14:13

Date Received: 01/12/21 14:24

Lab Sample ID: 590-14472-6

Matrix: Solid

Percent Solids: 97.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			15.81 g	2 mL	30232	01/14/21 12:25	NMI	TAL SPK
Total/NA	Analysis	8270E SIM		1			30229	01/14/21 22:16	NMI	TAL SPK
Total/NA	Prep	3550C			15.81 g	2 mL	30232	01/14/21 12:25	NMI	TAL SPK
Total/NA	Analysis	8270E SIM		10			30237	01/15/21 12:07	NMI	TAL SPK

Laboratory References:

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

Accreditation/Certification Summary

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014004

Job ID: 590-14472-1

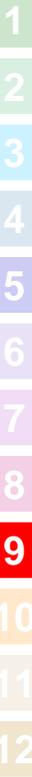
Laboratory: Eurofins TestAmerica, Spokane

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

<u>Authority</u>	<u>Program</u>	<u>Identification Number</u>	<u>Expiration Date</u>
Washington	State	C569	01-06-22

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

<u>Analysis Method</u>	<u>Prep Method</u>	<u>Matrix</u>	<u>Analyte</u>
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids



Method Summary

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014004

Job ID: 590-14472-1

Method	Method Description	Protocol	Laboratory
8270E SIM	Semivolatile Organic Compounds (GC/MS SIM)	SW846	TAL SPK
6010D	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 = Eurofins TestAmerica, Spokane, 11922 East 1st Ave, Spokane, WA 99206, TEL (509)924-9200



Sample Custody Record

Samples Shipped to: Test America



1 of 1

Hart Crowsner, Inc.
3131 Elliott Avenue, Suite 600
Seattle, Washington 98122
Office: 206.324.9530 • Fax 206.328.5589

JOB 150014004 LAB NUMBER _____
 PROJECT NAME CNSD PI/FIS
 HART CROWSER CONTACT John Haney
 SAMPLED BY: YH

LAB NO.	SAMPLE ID	DESCRIPTION	DATE	TIME	MATRIX	REQUESTED ANALYSIS	NO. OF CONTAINERS	OBSERVATIONS/COMMENTS/ COMPOSITING INSTRUCTIONS
✓	SB-1 (3-4')		10/6/20	09:53	Soil		1	
✓	SB-3 (3-4')		10/6/20	10:33		PATHS Lead	1	
✓	SB-5 (7-8')		10/6/20	15:54			1	
✓	SB-8 (4-5')		10/5/20	15:54			1	
✓	SB-13 (4-5')		10/5/20	14:44			1	
✓	SB-16 (3-4')		10/5/20	14:13			1	



590-14472 Chain of Custody

RELINQUISHED BY: Kevin H. Kelly DATE: 11/2/21 RECEIVED BY: M-O. Mavastoc DATE: 11/2/21
 SIGNATURE: Kevin H. Kelly TIME: _____ SIGNATURE: M-O. Mavastoc TIME: _____
 PRINT NAME: Kevin H. Kelly COMPANY: _____ PRINT NAME: M-O. Mavastoc COMPANY: _____
 COMPANY: _____ COMPANY: _____

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

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

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

SPECIAL SHIPMENT HANDLING OR STORAGE REQUIREMENTS: _____
 TOTAL NUMBER OF CONTAINERS: 6
 SAMPLE RECEIPT INFORMATION: _____
 CUSTODY SEALS: YES NO N/A
 GOOD CONDITION: YES NO
 TEMPERATURE: 5.1-7.5°C
 SHIPMENT METHOD: HAND COURIER GOVERNMENT

Login Sample Receipt Checklist

Client: Hart Crowser, Inc.

Job Number: 590-14472-1

Login Number: 14472
List Number: 1
Creator: O'Toole, Maria C

List Source: Eurofins TestAmerica, Spokane

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	
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)	False	Refer to Job Narrative for details.
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.



ANALYTICAL REPORT

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

Laboratory Job ID: 590-14513-1
Client Project/Site: CVSD/15014004

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

Attn: John Haney



*Authorized for release by:
1/26/2021 2:55:59 PM*

Randee Arrington, Project Manager II
(509)924-9200
Randee.Arrington@Eurofinset.com

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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.



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Case Narrative

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014004

Job ID: 590-14513-1

Job ID: 590-14513-1

Laboratory: Eurofins TestAmerica, Spokane

Narrative

Receipt

The sample was received on 1/15/2021 3:07 PM; the sample arrived in good condition. The temperature of the cooler at receipt was 16.1° C.

Receipt Exceptions

The following sample was received at the laboratory outside the required temperature criteria: TP-85(3-4) (590-14513-1).

The following sample was received outside of holding time: TP-85(3-4) (590-14513-1).

GC/MS Semi VOA

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.

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Sample Summary

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014004

Job ID: 590-14513-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
590-14513-1	TP-85(3-4)	Solid	12/22/20 10:38	01/15/21 15:07	

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Definitions/Glossary

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014004

Job ID: 590-14513-1

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
H3	Sample was received and analyzed past holding time.

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
CFU	Colony Forming Unit
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)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
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)
TNTC	Too Numerous To Count

Client Sample Results

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014004

Job ID: 590-14513-1

Client Sample ID: TP-85(3-4)

Lab Sample ID: 590-14513-1

Date Collected: 12/22/20 10:38

Matrix: Solid

Date Received: 01/15/21 15:07

Percent Solids: 97.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND	H3	10		ug/Kg	✳	01/21/21 12:52	01/21/21 22:59	1
2-Methylnaphthalene	ND	H3	10		ug/Kg	✳	01/21/21 12:52	01/21/21 22:59	1
1-Methylnaphthalene	ND	H3	10		ug/Kg	✳	01/21/21 12:52	01/21/21 22:59	1
Acenaphthylene	ND	H3	10		ug/Kg	✳	01/21/21 12:52	01/21/21 22:59	1
Acenaphthene	ND	H3	10		ug/Kg	✳	01/21/21 12:52	01/21/21 22:59	1
Fluorene	ND	H3	10		ug/Kg	✳	01/21/21 12:52	01/21/21 22:59	1
Phenanthrene	20	H3	10		ug/Kg	✳	01/21/21 12:52	01/21/21 22:59	1
Anthracene	ND	H3	10		ug/Kg	✳	01/21/21 12:52	01/21/21 22:59	1
Fluoranthene	18	H3	10		ug/Kg	✳	01/21/21 12:52	01/21/21 22:59	1
Pyrene	33	H3	10		ug/Kg	✳	01/21/21 12:52	01/21/21 22:59	1
Benzo[a]anthracene	18	H3	10		ug/Kg	✳	01/21/21 12:52	01/21/21 22:59	1
Chrysene	24	H3	10		ug/Kg	✳	01/21/21 12:52	01/21/21 22:59	1
Benzo[b]fluoranthene	23	H3	10		ug/Kg	✳	01/21/21 12:52	01/21/21 22:59	1
Benzo[k]fluoranthene	ND	H3	10		ug/Kg	✳	01/21/21 12:52	01/21/21 22:59	1
Benzo[a]pyrene	23	H3	10		ug/Kg	✳	01/21/21 12:52	01/21/21 22:59	1
Indeno[1,2,3-cd]pyrene	ND	H3	10		ug/Kg	✳	01/21/21 12:52	01/21/21 22:59	1
Dibenz(a,h)anthracene	ND	H3	10		ug/Kg	✳	01/21/21 12:52	01/21/21 22:59	1
Benzo[g,h,i]perylene	11	H3	10		ug/Kg	✳	01/21/21 12:52	01/21/21 22:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	63		33 - 120	01/21/21 12:52	01/21/21 22:59	1
2-Fluorobiphenyl (Surr)	75		47 - 120	01/21/21 12:52	01/21/21 22:59	1
p-Terphenyl-d14	89		74 - 120	01/21/21 12:52	01/21/21 22:59	1

QC Sample Results

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014004

Job ID: 590-14513-1

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

Lab Sample ID: MB 590-30297/1-A
Matrix: Solid
Analysis Batch: 30295

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 30297

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Naphthalene	ND		10		ug/Kg		01/21/21 12:52	01/21/21 16:01	1
2-Methylnaphthalene	ND		10		ug/Kg		01/21/21 12:52	01/21/21 16:01	1
1-Methylnaphthalene	ND		10		ug/Kg		01/21/21 12:52	01/21/21 16:01	1
Acenaphthylene	ND		10		ug/Kg		01/21/21 12:52	01/21/21 16:01	1
Acenaphthene	ND		10		ug/Kg		01/21/21 12:52	01/21/21 16:01	1
Fluorene	ND		10		ug/Kg		01/21/21 12:52	01/21/21 16:01	1
Phenanthrene	ND		10		ug/Kg		01/21/21 12:52	01/21/21 16:01	1
Anthracene	ND		10		ug/Kg		01/21/21 12:52	01/21/21 16:01	1
Fluoranthene	ND		10		ug/Kg		01/21/21 12:52	01/21/21 16:01	1
Pyrene	ND		10		ug/Kg		01/21/21 12:52	01/21/21 16:01	1
Benzo[a]anthracene	ND		10		ug/Kg		01/21/21 12:52	01/21/21 16:01	1
Chrysene	ND		10		ug/Kg		01/21/21 12:52	01/21/21 16:01	1
Benzo[b]fluoranthene	ND		10		ug/Kg		01/21/21 12:52	01/21/21 16:01	1
Benzo[k]fluoranthene	ND		10		ug/Kg		01/21/21 12:52	01/21/21 16:01	1
Benzo[a]pyrene	ND		10		ug/Kg		01/21/21 12:52	01/21/21 16:01	1
Indeno[1,2,3-cd]pyrene	ND		10		ug/Kg		01/21/21 12:52	01/21/21 16:01	1
Dibenz(a,h)anthracene	ND		10		ug/Kg		01/21/21 12:52	01/21/21 16:01	1
Benzo[g,h,i]perylene	ND		10		ug/Kg		01/21/21 12:52	01/21/21 16:01	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
Nitrobenzene-d5	62		33 - 120	01/21/21 12:52	01/21/21 16:01	1
2-Fluorobiphenyl (Surr)	75		47 - 120	01/21/21 12:52	01/21/21 16:01	1
p-Terphenyl-d14	97		74 - 120	01/21/21 12:52	01/21/21 16:01	1

Lab Sample ID: LCS 590-30297/2-A
Matrix: Solid
Analysis Batch: 30295

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 30297

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec.
		Result	Qualifier				
Naphthalene	267	201		ug/Kg		75	45 - 120
2-Methylnaphthalene	267	231		ug/Kg		87	48 - 120
1-Methylnaphthalene	267	225		ug/Kg		85	44 - 120
Acenaphthylene	267	232		ug/Kg		87	52 - 120
Acenaphthene	267	255		ug/Kg		96	53 - 120
Fluorene	267	287		ug/Kg		108	55 - 120
Phenanthrene	267	279		ug/Kg		105	57 - 121
Anthracene	267	274		ug/Kg		103	60 - 120
Fluoranthene	267	277		ug/Kg		104	63 - 127
Pyrene	267	299		ug/Kg		112	61 - 125
Benzo[a]anthracene	267	316		ug/Kg		118	61 - 131
Chrysene	267	305		ug/Kg		114	67 - 127
Benzo[b]fluoranthene	267	316		ug/Kg		119	61 - 127
Benzo[k]fluoranthene	267	296		ug/Kg		111	63 - 127
Benzo[a]pyrene	267	302		ug/Kg		113	60 - 126
Indeno[1,2,3-cd]pyrene	267	298		ug/Kg		112	63 - 128
Dibenz(a,h)anthracene	267	298		ug/Kg		112	60 - 121
Benzo[g,h,i]perylene	267	303		ug/Kg		114	58 - 129

QC Sample Results

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014004

Job ID: 590-14513-1

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

Lab Sample ID: LCS 590-30297/2-A

Matrix: Solid

Analysis Batch: 30295

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 30297

<u>Surrogate</u>	<u>LCS LCS</u>		<u>Limits</u>
	<u>%Recovery</u>	<u>Qualifier</u>	
<i>Nitrobenzene-d5</i>	82		33 - 120
<i>2-Fluorobiphenyl (Surr)</i>	87		47 - 120
<i>p-Terphenyl-d14</i>	98		74 - 120

Lab Chronicle

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014004

Job ID: 590-14513-1

Client Sample ID: TP-85(3-4)

Date Collected: 12/22/20 10:38

Date Received: 01/15/21 15:07

Lab Sample ID: 590-14513-1

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			30310	01/25/21 09:48	AMB	TAL SPK

Client Sample ID: TP-85(3-4)

Date Collected: 12/22/20 10:38

Date Received: 01/15/21 15:07

Lab Sample ID: 590-14513-1

Matrix: Solid

Percent Solids: 97.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			15.08 g	2 mL	30297	01/21/21 12:52	NMI	TAL SPK
Total/NA	Analysis	8270E SIM		1			30295	01/21/21 22:59	NMI	TAL SPK

Laboratory References:

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

Accreditation/Certification Summary

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014004

Job ID: 590-14513-1

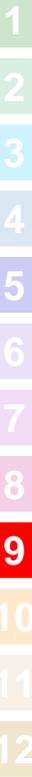
Laboratory: Eurofins TestAmerica, Spokane

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

<u>Authority</u>	<u>Program</u>	<u>Identification Number</u>	<u>Expiration Date</u>
Washington	State	C569	01-06-22

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

<u>Analysis Method</u>	<u>Prep Method</u>	<u>Matrix</u>	<u>Analyte</u>
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids



Method Summary

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014004

Job ID: 590-14513-1

Method	Method Description	Protocol	Laboratory
8270E SIM	Semivolatile Organic Compounds (GC/MS SIM)	SW846	TAL SPK
Moisture	Percent Moisture	EPA	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 = Eurofins TestAmerica, Spokane, 11922 East 1st Ave, Spokane, WA 99206, TEL (509)924-9200



Login Sample Receipt Checklist

Client: Hart Crowser, Inc.

Job Number: 590-14513-1

Login Number: 14513
List Number: 1
Creator: O'Toole, Maria C

List Source: Eurofins TestAmerica, Spokane

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.	False	
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)	False	Refer to Job Narrative for details.
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.



ANALYTICAL REPORT

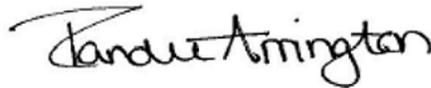
Eurofins TestAmerica, Spokane
11922 East 1st Ave
Spokane, WA 99206
Tel: (509)924-9200

Laboratory Job ID: 590-14538-1
Client Project/Site: CVSD/15014004

For:

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

Attn: John Haney



*Authorized for release by:
2/1/2021 3:10:05 PM*

Randee Arrington, Project Manager II
(509)924-9200
Randee.Arrington@Eurofinset.com

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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.



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Case Narrative

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014004

Job ID: 590-14538-1

Job ID: 590-14538-1

Laboratory: Eurofins TestAmerica, Spokane

Narrative

Receipt

The samples were received on 1/20/2021 3:38 PM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 2.8° C.

GC/MS Semi VOA

Method 8270E SIM: Due to the high concentration of multiple analytes, the matrix spike / matrix spike duplicate (MS/MSD) for preparation batch 590-30297 and analytical batch 590-30295 could not be evaluated for accuracy and precision. The associated laboratory control sample (LCS) met acceptance criteria.

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: CVSD/15014004

Job ID: 590-14538-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
590-14538-1	TP-74 (0-1')	Solid	12/21/20 09:30	01/20/21 15:38	
590-14538-2	TP-73 (0-1')	Solid	12/21/20 09:05	01/20/21 15:38	
590-14538-3	TP-95 (0-6')	Solid	01/19/21 14:42	01/20/21 15:38	
590-14538-4	TP-94 (0-6')	Solid	01/19/21 14:45	01/20/21 15:38	
590-14538-5	TP-93 (0-6')	Solid	01/19/21 14:55	01/20/21 15:38	

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Definitions/Glossary

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014004

Job ID: 590-14538-1

Qualifiers

GC/MS Semi VOA

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.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
♠	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
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)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
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)
TNTC	Too Numerous To Count

Client Sample Results

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014004

Job ID: 590-14538-1

Client Sample ID: TP-74 (0-1')

Date Collected: 12/21/20 09:30
Date Received: 01/20/21 15:38

Lab Sample ID: 590-14538-1

Matrix: Solid
Percent Solids: 85.9

Method: 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	15		2.5		mg/Kg	☼	01/28/21 08:25	01/29/21 11:04	1

Client Sample ID: TP-73 (0-1')

Date Collected: 12/21/20 09:05
Date Received: 01/20/21 15:38

Lab Sample ID: 590-14538-2

Matrix: Solid
Percent Solids: 85.7

Method: 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	12		2.7		mg/Kg	☼	01/28/21 08:25	01/29/21 11:39	1

Client Sample ID: TP-95 (0-6')

Date Collected: 01/19/21 14:42
Date Received: 01/20/21 15:38

Lab Sample ID: 590-14538-3

Matrix: Solid
Percent Solids: 75.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		130		ug/Kg	☼	01/21/21 12:52	01/21/21 16:53	10
2-Methylnaphthalene	ND		130		ug/Kg	☼	01/21/21 12:52	01/21/21 16:53	10
1-Methylnaphthalene	ND		130		ug/Kg	☼	01/21/21 12:52	01/21/21 16:53	10
Acenaphthylene	ND		130		ug/Kg	☼	01/21/21 12:52	01/21/21 16:53	10
Acenaphthene	240	F1	130		ug/Kg	☼	01/21/21 12:52	01/21/21 16:53	10
Fluorene	ND		130		ug/Kg	☼	01/21/21 12:52	01/21/21 16:53	10
Phenanthrene	990	F1 F2	130		ug/Kg	☼	01/21/21 12:52	01/21/21 16:53	10
Anthracene	240		130		ug/Kg	☼	01/21/21 12:52	01/21/21 16:53	10
Fluoranthene	2200	F2	130		ug/Kg	☼	01/21/21 12:52	01/21/21 16:53	10
Pyrene	2800	F2	130		ug/Kg	☼	01/21/21 12:52	01/21/21 16:53	10
Benzo[a]anthracene	2400	F2	130		ug/Kg	☼	01/21/21 12:52	01/21/21 16:53	10
Chrysene	2900	F2	130		ug/Kg	☼	01/21/21 12:52	01/21/21 16:53	10
Benzo[b]fluoranthene	4300	F2	130		ug/Kg	☼	01/21/21 12:52	01/21/21 16:53	10
Benzo[k]fluoranthene	2000	F2	130		ug/Kg	☼	01/21/21 12:52	01/21/21 16:53	10
Benzo[a]pyrene	5000	F2	130		ug/Kg	☼	01/21/21 12:52	01/21/21 16:53	10
Indeno[1,2,3-cd]pyrene	2900	F2	130		ug/Kg	☼	01/21/21 12:52	01/21/21 16:53	10
Dibenz[a,h]anthracene	920	F1 F2	130		ug/Kg	☼	01/21/21 12:52	01/21/21 16:53	10
Benzo[g,h,i]perylene	3500	F2	130		ug/Kg	☼	01/21/21 12:52	01/21/21 16:53	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	71		33 - 120	01/21/21 12:52	01/21/21 16:53	10
2-Fluorobiphenyl (Surr)	82		47 - 120	01/21/21 12:52	01/21/21 16:53	10
p-Terphenyl-d14	87		74 - 120	01/21/21 12:52	01/21/21 16:53	10

Client Sample ID: TP-94 (0-6')

Date Collected: 01/19/21 14:45
Date Received: 01/20/21 15:38

Lab Sample ID: 590-14538-4

Matrix: Solid
Percent Solids: 91.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		10		ug/Kg	☼	01/21/21 12:52	01/21/21 18:12	1
2-Methylnaphthalene	ND		10		ug/Kg	☼	01/21/21 12:52	01/21/21 18:12	1
1-Methylnaphthalene	ND		10		ug/Kg	☼	01/21/21 12:52	01/21/21 18:12	1
Acenaphthylene	ND		10		ug/Kg	☼	01/21/21 12:52	01/21/21 18:12	1
Acenaphthene	ND		10		ug/Kg	☼	01/21/21 12:52	01/21/21 18:12	1

Eurofins TestAmerica, Spokane

Client Sample Results

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014004

Job ID: 590-14538-1

Client Sample ID: TP-94 (0-6')

Lab Sample ID: 590-14538-4

Date Collected: 01/19/21 14:45

Matrix: Solid

Date Received: 01/20/21 15:38

Percent Solids: 91.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluorene	ND		10		ug/Kg	☼	01/21/21 12:52	01/21/21 18:12	1
Phenanthrene	30		10		ug/Kg	☼	01/21/21 12:52	01/21/21 18:12	1
Anthracene	ND		10		ug/Kg	☼	01/21/21 12:52	01/21/21 18:12	1
Fluoranthene	76		10		ug/Kg	☼	01/21/21 12:52	01/21/21 18:12	1
Pyrene	99		10		ug/Kg	☼	01/21/21 12:52	01/21/21 18:12	1
Benzo[a]anthracene	67		10		ug/Kg	☼	01/21/21 12:52	01/21/21 18:12	1
Chrysene	93		10		ug/Kg	☼	01/21/21 12:52	01/21/21 18:12	1
Benzo[b]fluoranthene	130		10		ug/Kg	☼	01/21/21 12:52	01/21/21 18:12	1
Benzo[k]fluoranthene	46		10		ug/Kg	☼	01/21/21 12:52	01/21/21 18:12	1
Benzo[a]pyrene	120		10		ug/Kg	☼	01/21/21 12:52	01/21/21 18:12	1
Indeno[1,2,3-cd]pyrene	59		10		ug/Kg	☼	01/21/21 12:52	01/21/21 18:12	1
Dibenz(a,h)anthracene	21		10		ug/Kg	☼	01/21/21 12:52	01/21/21 18:12	1
Benzo[g,h,i]perylene	77		10		ug/Kg	☼	01/21/21 12:52	01/21/21 18:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	78		33 - 120				01/21/21 12:52	01/21/21 18:12	1
2-Fluorobiphenyl (Surr)	89		47 - 120				01/21/21 12:52	01/21/21 18:12	1
p-Terphenyl-d14	99		74 - 120				01/21/21 12:52	01/21/21 18:12	1

Client Sample ID: TP-93 (0-6')

Lab Sample ID: 590-14538-5

Date Collected: 01/19/21 14:55

Matrix: Solid

Date Received: 01/20/21 15:38

Percent Solids: 87.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		220		ug/Kg	☼	01/21/21 12:52	01/21/21 18:38	20
2-Methylnaphthalene	ND		220		ug/Kg	☼	01/21/21 12:52	01/21/21 18:38	20
1-Methylnaphthalene	ND		220		ug/Kg	☼	01/21/21 12:52	01/21/21 18:38	20
Acenaphthylene	ND		220		ug/Kg	☼	01/21/21 12:52	01/21/21 18:38	20
Acenaphthene	ND		220		ug/Kg	☼	01/21/21 12:52	01/21/21 18:38	20
Fluorene	ND		220		ug/Kg	☼	01/21/21 12:52	01/21/21 18:38	20
Phenanthrene	490		220		ug/Kg	☼	01/21/21 12:52	01/21/21 18:38	20
Anthracene	ND		220		ug/Kg	☼	01/21/21 12:52	01/21/21 18:38	20
Fluoranthene	840		220		ug/Kg	☼	01/21/21 12:52	01/21/21 18:38	20
Pyrene	1500		220		ug/Kg	☼	01/21/21 12:52	01/21/21 18:38	20
Benzo[a]anthracene	4000		220		ug/Kg	☼	01/21/21 12:52	01/21/21 18:38	20
Chrysene	9000		220		ug/Kg	☼	01/21/21 12:52	01/21/21 18:38	20
Benzo[b]fluoranthene	3300		220		ug/Kg	☼	01/21/21 12:52	01/21/21 18:38	20
Benzo[k]fluoranthene	770		220		ug/Kg	☼	01/21/21 12:52	01/21/21 18:38	20
Benzo[a]pyrene	6500		220		ug/Kg	☼	01/21/21 12:52	01/21/21 18:38	20
Indeno[1,2,3-cd]pyrene	1400		220		ug/Kg	☼	01/21/21 12:52	01/21/21 18:38	20
Dibenz(a,h)anthracene	1500		220		ug/Kg	☼	01/21/21 12:52	01/21/21 18:38	20
Benzo[g,h,i]perylene	4300		220		ug/Kg	☼	01/21/21 12:52	01/21/21 18:38	20
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	86		33 - 120				01/21/21 12:52	01/21/21 18:38	20
2-Fluorobiphenyl (Surr)	98		47 - 120				01/21/21 12:52	01/21/21 18:38	20
p-Terphenyl-d14	95		74 - 120				01/21/21 12:52	01/21/21 18:38	20

Eurofins TestAmerica, Spokane

QC Sample Results

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014004

Job ID: 590-14538-1

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

Lab Sample ID: MB 590-30297/1-A
Matrix: Solid
Analysis Batch: 30295

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 30297

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Naphthalene	ND		10		ug/Kg		01/21/21 12:52	01/21/21 16:01	1
2-Methylnaphthalene	ND		10		ug/Kg		01/21/21 12:52	01/21/21 16:01	1
1-Methylnaphthalene	ND		10		ug/Kg		01/21/21 12:52	01/21/21 16:01	1
Acenaphthylene	ND		10		ug/Kg		01/21/21 12:52	01/21/21 16:01	1
Acenaphthene	ND		10		ug/Kg		01/21/21 12:52	01/21/21 16:01	1
Fluorene	ND		10		ug/Kg		01/21/21 12:52	01/21/21 16:01	1
Phenanthrene	ND		10		ug/Kg		01/21/21 12:52	01/21/21 16:01	1
Anthracene	ND		10		ug/Kg		01/21/21 12:52	01/21/21 16:01	1
Fluoranthene	ND		10		ug/Kg		01/21/21 12:52	01/21/21 16:01	1
Pyrene	ND		10		ug/Kg		01/21/21 12:52	01/21/21 16:01	1
Benzo[a]anthracene	ND		10		ug/Kg		01/21/21 12:52	01/21/21 16:01	1
Chrysene	ND		10		ug/Kg		01/21/21 12:52	01/21/21 16:01	1
Benzo[b]fluoranthene	ND		10		ug/Kg		01/21/21 12:52	01/21/21 16:01	1
Benzo[k]fluoranthene	ND		10		ug/Kg		01/21/21 12:52	01/21/21 16:01	1
Benzo[a]pyrene	ND		10		ug/Kg		01/21/21 12:52	01/21/21 16:01	1
Indeno[1,2,3-cd]pyrene	ND		10		ug/Kg		01/21/21 12:52	01/21/21 16:01	1
Dibenz(a,h)anthracene	ND		10		ug/Kg		01/21/21 12:52	01/21/21 16:01	1
Benzo[g,h,i]perylene	ND		10		ug/Kg		01/21/21 12:52	01/21/21 16:01	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
Nitrobenzene-d5	62		33 - 120	01/21/21 12:52	01/21/21 16:01	1
2-Fluorobiphenyl (Surr)	75		47 - 120	01/21/21 12:52	01/21/21 16:01	1
p-Terphenyl-d14	97		74 - 120	01/21/21 12:52	01/21/21 16:01	1

Lab Sample ID: LCS 590-30297/2-A
Matrix: Solid
Analysis Batch: 30295

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 30297

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
Naphthalene	267	201		ug/Kg		75	45 - 120
2-Methylnaphthalene	267	231		ug/Kg		87	48 - 120
1-Methylnaphthalene	267	225		ug/Kg		85	44 - 120
Acenaphthylene	267	232		ug/Kg		87	52 - 120
Acenaphthene	267	255		ug/Kg		96	53 - 120
Fluorene	267	287		ug/Kg		108	55 - 120
Phenanthrene	267	279		ug/Kg		105	57 - 121
Anthracene	267	274		ug/Kg		103	60 - 120
Fluoranthene	267	277		ug/Kg		104	63 - 127
Pyrene	267	299		ug/Kg		112	61 - 125
Benzo[a]anthracene	267	316		ug/Kg		118	61 - 131
Chrysene	267	305		ug/Kg		114	67 - 127
Benzo[b]fluoranthene	267	316		ug/Kg		119	61 - 127
Benzo[k]fluoranthene	267	296		ug/Kg		111	63 - 127
Benzo[a]pyrene	267	302		ug/Kg		113	60 - 126
Indeno[1,2,3-cd]pyrene	267	298		ug/Kg		112	63 - 128
Dibenz(a,h)anthracene	267	298		ug/Kg		112	60 - 121
Benzo[g,h,i]perylene	267	303		ug/Kg		114	58 - 129

QC Sample Results

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014004

Job ID: 590-14538-1

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

Lab Sample ID: LCS 590-30297/2-A
Matrix: Solid
Analysis Batch: 30295

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 30297

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
Nitrobenzene-d5	82		33 - 120
2-Fluorobiphenyl (Surr)	87		47 - 120
p-Terphenyl-d14	98		74 - 120

Lab Sample ID: 590-14538-3 MS
Matrix: Solid
Analysis Batch: 30295

Client Sample ID: TP-95 (0-6')
Prep Type: Total/NA
Prep Batch: 30297

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.	Limits
	Result	Qualifier	Added	Result	Qualifier					
Naphthalene	ND		351	320		ug/Kg	☼	81		45 - 120
2-Methylnaphthalene	ND		351	346		ug/Kg	☼	84		48 - 120
1-Methylnaphthalene	ND		351	365		ug/Kg	☼	92		44 - 120
Acenaphthylene	ND		351	340		ug/Kg	☼	97		52 - 120
Acenaphthene	240	F1	351	470		ug/Kg	☼	65		53 - 120
Fluorene	ND		351	402		ug/Kg	☼	99		55 - 120
Phenanthrene	990	F1 F2	351	1200		ug/Kg	☼	62		57 - 121
Anthracene	240		351	533		ug/Kg	☼	84		60 - 120
Fluoranthene	2200	F2	351	2380	4	ug/Kg	☼	43		63 - 127
Pyrene	2800	F2	351	2840	4	ug/Kg	☼	19		61 - 125
Benzo[a]anthracene	2400	F2	351	2030	4	ug/Kg	☼	-101		61 - 131
Chrysene	2900	F2	351	2490	4	ug/Kg	☼	-120		67 - 127
Benzo[b]fluoranthene	4300	F2	351	3260	4	ug/Kg	☼	-294		61 - 127
Benzo[k]fluoranthene	2000	F2	351	1390	4	ug/Kg	☼	-171		63 - 127
Benzo[a]pyrene	5000	F2	351	3070	4	ug/Kg	☼	-550		60 - 126
Indeno[1,2,3-cd]pyrene	2900	F2	351	1860	4	ug/Kg	☼	-299		63 - 128
Dibenz(a,h)anthracene	920	F1 F2	351	842	F1	ug/Kg	☼	-23		60 - 121
Benzo[g,h,i]perylene	3500	F2	351	2360	4	ug/Kg	☼	-319		58 - 129

Surrogate	MS MS		Limits
	%Recovery	Qualifier	
Nitrobenzene-d5	77		33 - 120
2-Fluorobiphenyl (Surr)	84		47 - 120
p-Terphenyl-d14	89		74 - 120

Lab Sample ID: 590-14538-3 MSD
Matrix: Solid
Analysis Batch: 30295

Client Sample ID: TP-95 (0-6')
Prep Type: Total/NA
Prep Batch: 30297

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	RPD
	Result	Qualifier	Added	Result	Qualifier						
Naphthalene	ND		353	283		ug/Kg	☼	70		12	20
2-Methylnaphthalene	ND		353	330		ug/Kg	☼	79		5	20
1-Methylnaphthalene	ND		353	345		ug/Kg	☼	86		6	14
Acenaphthylene	ND		353	329		ug/Kg	☼	93		3	20
Acenaphthene	240	F1	353	423	F1	ug/Kg	☼	52		10	11
Fluorene	ND		353	400		ug/Kg	☼	98		0	21
Phenanthrene	990	F1 F2	353	793	F1 F2	ug/Kg	☼	-55		41	18
Anthracene	240		353	457		ug/Kg	☼	62		15	18
Fluoranthene	2200	F2	353	1130	4 F2	ug/Kg	☼	-312		71	18
Pyrene	2800	F2	353	1430	4 F2	ug/Kg	☼	-379		66	26

Eurofins TestAmerica, Spokane

QC Sample Results

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014004

Job ID: 590-14538-1

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

Lab Sample ID: 590-14538-3 MSD
Matrix: Solid
Analysis Batch: 30295

Client Sample ID: TP-95 (0-6')
Prep Type: Total/NA
Prep Batch: 30297

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier						
Benzo[a]anthracene	2400	F2	353	1090	4 F2	ug/Kg	⊛	-366	61 - 131	60	16
Chrysene	2900	F2	353	1350	4 F2	ug/Kg	⊛	-442	67 - 127	59	15
Benzo[b]fluoranthene	4300	F2	353	1540	4 F2	ug/Kg	⊛	-779	61 - 127	72	16
Benzo[k]fluoranthene	2000	F2	353	825	4 F2	ug/Kg	⊛	-330	63 - 127	51	16
Benzo[a]pyrene	5000	F2	353	1570	4 F2	ug/Kg	⊛	-972	60 - 126	65	20
Indeno[1,2,3-cd]pyrene	2900	F2	353	996	4 F2	ug/Kg	⊛	-542	63 - 128	60	18
Dibenz(a,h)anthracene	920	F1 F2	353	572	F1 F2	ug/Kg	⊛	-99	60 - 121	38	18
Benzo[g,h,i]perylene	3500	F2	353	1200	4 F2	ug/Kg	⊛	-645	58 - 129	65	17
Surrogate	MSD	MSD	Qualifier	Limits							
Nitrobenzene-d5	71			33 - 120							
2-Fluorobiphenyl (Surr)	85			47 - 120							
p-Terphenyl-d14	88			74 - 120							

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 590-30376/2-A
Matrix: Solid
Analysis Batch: 30406

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 30376

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Lead	ND		3.0		mg/Kg		01/28/21 08:25	01/29/21 10:57	1

Lab Sample ID: LCS 590-30376/1-A
Matrix: Solid
Analysis Batch: 30406

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 30376

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec.	Limits
		Result	Qualifier					
Lead	50.0	50.3		mg/Kg		101	80 - 120	

Lab Sample ID: 590-14538-1 MS
Matrix: Solid
Analysis Batch: 30406

Client Sample ID: TP-74 (0-1')
Prep Type: Total/NA
Prep Batch: 30376

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.	Limits
	Result	Qualifier	Added	Result	Qualifier					
Lead	15		58.2	69.7		mg/Kg	⊛	94	75 - 125	

Lab Sample ID: 590-14538-1 MSD
Matrix: Solid
Analysis Batch: 30406

Client Sample ID: TP-74 (0-1')
Prep Type: Total/NA
Prep Batch: 30376

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier						
Lead	15		57.6	68.6		mg/Kg	⊛	93	75 - 125	2	20

Lab Sample ID: 590-14538-1 DU
Matrix: Solid
Analysis Batch: 30406

Client Sample ID: TP-74 (0-1')
Prep Type: Total/NA
Prep Batch: 30376

Analyte	Sample	Sample	Unit	D	RPD	Limit
	Result	Qualifier				
Lead	15		14.6	⊛	2	20

Eurofins TestAmerica, Spokane

Lab Chronicle

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014004

Job ID: 590-14538-1

Client Sample ID: TP-74 (0-1')
Date Collected: 12/21/20 09:30
Date Received: 01/20/21 15:38

Lab Sample ID: 590-14538-1
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			30310	01/25/21 09:48	AMB	TAL SPK

Client Sample ID: TP-74 (0-1')
Date Collected: 12/21/20 09:30
Date Received: 01/20/21 15:38

Lab Sample ID: 590-14538-1
Matrix: Solid
Percent Solids: 85.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			1.37 g	50 mL	30376	01/28/21 08:25	AMB	TAL SPK
Total/NA	Analysis	6010D		1			30406	01/29/21 11:04	AMB	TAL SPK

Client Sample ID: TP-73 (0-1')
Date Collected: 12/21/20 09:05
Date Received: 01/20/21 15:38

Lab Sample ID: 590-14538-2
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			30310	01/25/21 09:48	AMB	TAL SPK

Client Sample ID: TP-73 (0-1')
Date Collected: 12/21/20 09:05
Date Received: 01/20/21 15:38

Lab Sample ID: 590-14538-2
Matrix: Solid
Percent Solids: 85.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			1.32 g	50 mL	30376	01/28/21 08:25	AMB	TAL SPK
Total/NA	Analysis	6010D		1			30406	01/29/21 11:39	AMB	TAL SPK

Client Sample ID: TP-95 (0-6')
Date Collected: 01/19/21 14:42
Date Received: 01/20/21 15:38

Lab Sample ID: 590-14538-3
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			30310	01/25/21 09:48	AMB	TAL SPK

Client Sample ID: TP-95 (0-6')
Date Collected: 01/19/21 14:42
Date Received: 01/20/21 15:38

Lab Sample ID: 590-14538-3
Matrix: Solid
Percent Solids: 75.4

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	30297	01/21/21 12:52	NMI	TAL SPK
Total/NA	Analysis	8270E SIM		10			30295	01/21/21 16:53	NMI	TAL SPK

Client Sample ID: TP-94 (0-6')
Date Collected: 01/19/21 14:45
Date Received: 01/20/21 15:38

Lab Sample ID: 590-14538-4
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			30310	01/25/21 09:48	AMB	TAL SPK

Eurofins TestAmerica, Spokane

Lab Chronicle

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014004

Job ID: 590-14538-1

Client Sample ID: TP-94 (0-6')

Date Collected: 01/19/21 14:45

Date Received: 01/20/21 15:38

Lab Sample ID: 590-14538-4

Matrix: Solid

Percent Solids: 91.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			15.97 g	2 mL	30297	01/21/21 12:52	NMI	TAL SPK
Total/NA	Analysis	8270E SIM		1			30295	01/21/21 18:12	NMI	TAL SPK

Client Sample ID: TP-93 (0-6')

Date Collected: 01/19/21 14:55

Date Received: 01/20/21 15:38

Lab Sample ID: 590-14538-5

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			30310	01/25/21 09:48	AMB	TAL SPK

Client Sample ID: TP-93 (0-6')

Date Collected: 01/19/21 14:55

Date Received: 01/20/21 15:38

Lab Sample ID: 590-14538-5

Matrix: Solid

Percent Solids: 87.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			15.86 g	2 mL	30297	01/21/21 12:52	NMI	TAL SPK
Total/NA	Analysis	8270E SIM		20			30295	01/21/21 18:38	NMI	TAL SPK

Laboratory References:

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

Accreditation/Certification Summary

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014004

Job ID: 590-14538-1

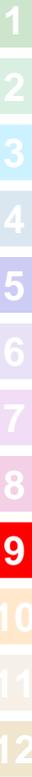
Laboratory: Eurofins TestAmerica, Spokane

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

<u>Authority</u>	<u>Program</u>	<u>Identification Number</u>	<u>Expiration Date</u>
Washington	State	C569	01-06-22

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

<u>Analysis Method</u>	<u>Prep Method</u>	<u>Matrix</u>	<u>Analyte</u>
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids



Method Summary

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014004

Job ID: 590-14538-1

Method	Method Description	Protocol	Laboratory
8270E SIM	Semivolatile Organic Compounds (GC/MS SIM)	SW846	TAL SPK
6010D	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 = Eurofins TestAmerica, Spokane, 11922 East 1st Ave, Spokane, WA 99206, TEL (509)924-9200



Sample Custody Record

Samples Shipped to: Test Awantca



1 of 1

Hart Crowsner, Inc.
 3131 Elliott Avenue, Suite 600
 Seattle, Washington 98121
 Office: 206.324.9530 • Fax 206.328.5581

JOB _____ LAB NUMBER _____
 PROJECT NAME CVSD PI/FES
 HART CROWSEY CONTACT John Haney
 SAMPLED BY: KH

LAB NO.	SAMPLE ID	DESCRIPTION	DATE	TIME	MATRIX
	TP-34 (0-1')		12/21/20	09:30	Soil
	TP-33 (0-1')			09:05	1
	TP-95 (0-6")		1/19/21	14:42	1
	TP-95				
	TP-94 (0-6")		1/19/21	14:45	Soil
	TP-93 (0-6")		1/19/21	14:55	1

REQUESTED ANALYSIS: Lead Patts

COOLER NO.: _____ STORAGE LOCATION: _____

SPECIAL SHIPMENT HANDLING OR STORAGE REQUIREMENTS: _____



590-14538 Chain of Custody

NO. OF CONTAINERS: _____

OBSERVATIONS/COMMENTS/
COMPOSITING INSTRUCTIONS

TOTAL NUMBER OF CONTAINERS: 5

SAMPLE RECEIPT INFORMATION

CUSTODY SEALS: YES NO N/A

GOOD CONDITION: YES NO

TEMPERATURE: 2.6-72.8

SHIPMENT METHOD: HAND COURIER OVERNIGHT

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

White to Lab Yellow to Project Manager Pink to Sample Custodian

Login Sample Receipt Checklist

Client: Hart Crowser, Inc.

Job Number: 590-14538-1

Login Number: 14538

List Number: 1

Creator: O'Toole, Maria C

List Source: Eurofins TestAmerica, Spokane

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	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	
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.



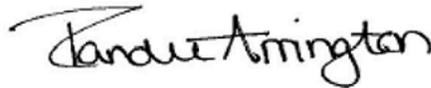
ANALYTICAL REPORT

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

Laboratory Job ID: 590-14565-1
Client Project/Site: CVSD/15014004

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

Attn: John Haney



*Authorized for release by:
2/1/2021 3:03:40 PM*

Randee Arrington, Project Manager II
(509)924-9200
Randee.Arrington@Eurofinset.com

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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.



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Case Narrative

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014004

Job ID: 590-14565-1

Job ID: 590-14565-1

Laboratory: Eurofins TestAmerica, Spokane

Narrative

Receipt

The sample was received on 1/26/2021 12:10 PM; the sample arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 5.6° C.

Receipt Exceptions

The following sample was received outside of holding time: SB-16(4'-5') (590-14565-1).

GC/MS Semi VOA

Method 8270E SIM: The native sample, matrix spike, and matrix spike duplicate (MS/MSD) associated with preparation batch 590-30385 and analytical batch 590-30380 were performed at the same dilution. Due to the additional level of analyte present in the spiked samples, the concentration of multiple analytes in the MS were above the instrument calibration range. The data have been reported and qualified.

No additional analytical or quality issues were noted, other than those described above or 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: CVSD/15014004

Job ID: 590-14565-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
590-14565-1	SB-16(4'-5')	Solid	10/05/20 14:14	01/26/21 12:10	

1

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Definitions/Glossary

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014004

Job ID: 590-14565-1

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
E	Result exceeded calibration range.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
H3	Sample was received and analyzed past holding time.

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
CFI	Contains Free Liquid
CFU	Colony Forming Unit
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)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
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)
TNTC	Too Numerous To Count

Client Sample Results

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014004

Job ID: 590-14565-1

Client Sample ID: SB-16(4'-5')

Lab Sample ID: 590-14565-1

Date Collected: 10/05/20 14:14

Matrix: Solid

Date Received: 01/26/21 12:10

Percent Solids: 97.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND	H3	9.7		ug/Kg	✳	01/28/21 11:12	01/28/21 15:05	1
2-Methylnaphthalene	ND	H3	9.7		ug/Kg	✳	01/28/21 11:12	01/28/21 15:05	1
1-Methylnaphthalene	ND	H3	9.7		ug/Kg	✳	01/28/21 11:12	01/28/21 15:05	1
Acenaphthylene	ND	H3	9.7		ug/Kg	✳	01/28/21 11:12	01/28/21 15:05	1
Acenaphthene	32	F2 H3 F1	9.7		ug/Kg	✳	01/28/21 11:12	01/28/21 15:05	1
Fluorene	11	H3	9.7		ug/Kg	✳	01/28/21 11:12	01/28/21 15:05	1
Phenanthrene	170	F2 H3 F1	9.7		ug/Kg	✳	01/28/21 11:12	01/28/21 15:05	1
Anthracene	38	F2 H3 F1	9.7		ug/Kg	✳	01/28/21 11:12	01/28/21 15:05	1
Fluoranthene	430	F2 H3 F1	9.7		ug/Kg	✳	01/28/21 11:12	01/28/21 15:05	1
Pyrene	460	F2 F1 H3	9.7		ug/Kg	✳	01/28/21 11:12	01/28/21 15:05	1
Benzo[a]anthracene	370	F2 H3 F1	9.7		ug/Kg	✳	01/28/21 11:12	01/28/21 15:05	1
Chrysene	430	F2 H3 F1	9.7		ug/Kg	✳	01/28/21 11:12	01/28/21 15:05	1
Benzo[b]fluoranthene	580	F2 F1 H3	9.7		ug/Kg	✳	01/28/21 11:12	01/28/21 15:05	1
Benzo[k]fluoranthene	210	F2 F1 H3	9.7		ug/Kg	✳	01/28/21 11:12	01/28/21 15:05	1
Benzo[a]pyrene	550	F2 F1 H3	9.7		ug/Kg	✳	01/28/21 11:12	01/28/21 15:05	1
Indeno[1,2,3-cd]pyrene	290	F2 H3 F1	9.7		ug/Kg	✳	01/28/21 11:12	01/28/21 15:05	1
Dibenz(a,h)anthracene	95	F2 H3 F1	9.7		ug/Kg	✳	01/28/21 11:12	01/28/21 15:05	1
Benzo[g,h,i]perylene	390	F2 H3 F1	9.7		ug/Kg	✳	01/28/21 11:12	01/28/21 15:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	60		33 - 120	01/28/21 11:12	01/28/21 15:05	1
2-Fluorobiphenyl (Surr)	79		47 - 120	01/28/21 11:12	01/28/21 15:05	1
p-Terphenyl-d14	91		74 - 120	01/28/21 11:12	01/28/21 15:05	1

QC Sample Results

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014004

Job ID: 590-14565-1

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

Lab Sample ID: MB 590-30385/1-A
Matrix: Solid
Analysis Batch: 30380

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 30385

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Naphthalene	ND		10		ug/Kg		01/28/21 11:12	01/28/21 12:53	1
2-Methylnaphthalene	ND		10		ug/Kg		01/28/21 11:12	01/28/21 12:53	1
1-Methylnaphthalene	ND		10		ug/Kg		01/28/21 11:12	01/28/21 12:53	1
Acenaphthylene	ND		10		ug/Kg		01/28/21 11:12	01/28/21 12:53	1
Acenaphthene	ND		10		ug/Kg		01/28/21 11:12	01/28/21 12:53	1
Fluorene	ND		10		ug/Kg		01/28/21 11:12	01/28/21 12:53	1
Phenanthrene	ND		10		ug/Kg		01/28/21 11:12	01/28/21 12:53	1
Anthracene	ND		10		ug/Kg		01/28/21 11:12	01/28/21 12:53	1
Fluoranthene	ND		10		ug/Kg		01/28/21 11:12	01/28/21 12:53	1
Pyrene	ND		10		ug/Kg		01/28/21 11:12	01/28/21 12:53	1
Benzo[a]anthracene	ND		10		ug/Kg		01/28/21 11:12	01/28/21 12:53	1
Chrysene	ND		10		ug/Kg		01/28/21 11:12	01/28/21 12:53	1
Benzo[b]fluoranthene	ND		10		ug/Kg		01/28/21 11:12	01/28/21 12:53	1
Benzo[k]fluoranthene	ND		10		ug/Kg		01/28/21 11:12	01/28/21 12:53	1
Benzo[a]pyrene	ND		10		ug/Kg		01/28/21 11:12	01/28/21 12:53	1
Indeno[1,2,3-cd]pyrene	ND		10		ug/Kg		01/28/21 11:12	01/28/21 12:53	1
Dibenz(a,h)anthracene	ND		10		ug/Kg		01/28/21 11:12	01/28/21 12:53	1
Benzo[g,h,i]perylene	ND		10		ug/Kg		01/28/21 11:12	01/28/21 12:53	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
Nitrobenzene-d5	70		33 - 120	01/28/21 11:12	01/28/21 12:53	1
2-Fluorobiphenyl (Surr)	80		47 - 120	01/28/21 11:12	01/28/21 12:53	1
p-Terphenyl-d14	96		74 - 120	01/28/21 11:12	01/28/21 12:53	1

Lab Sample ID: LCS 590-30385/2-A
Matrix: Solid
Analysis Batch: 30380

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 30385

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec.
		Result	Qualifier				
Naphthalene	267	185		ug/Kg		69	45 - 120
2-Methylnaphthalene	267	210		ug/Kg		79	48 - 120
1-Methylnaphthalene	267	209		ug/Kg		78	44 - 120
Acenaphthylene	267	229		ug/Kg		86	52 - 120
Acenaphthene	267	253		ug/Kg		95	53 - 120
Fluorene	267	294		ug/Kg		110	55 - 120
Phenanthrene	267	272		ug/Kg		102	57 - 121
Anthracene	267	260		ug/Kg		97	60 - 120
Fluoranthene	267	276		ug/Kg		103	63 - 127
Pyrene	267	294		ug/Kg		110	61 - 125
Benzo[a]anthracene	267	309		ug/Kg		116	61 - 131
Chrysene	267	300		ug/Kg		112	67 - 127
Benzo[b]fluoranthene	267	300		ug/Kg		113	61 - 127
Benzo[k]fluoranthene	267	288		ug/Kg		108	63 - 127
Benzo[a]pyrene	267	302		ug/Kg		113	60 - 126
Indeno[1,2,3-cd]pyrene	267	289		ug/Kg		108	63 - 128
Dibenz(a,h)anthracene	267	287		ug/Kg		108	60 - 121
Benzo[g,h,i]perylene	267	294		ug/Kg		110	58 - 129

Eurofins TestAmerica, Spokane

QC Sample Results

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014004

Job ID: 590-14565-1

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

Lab Sample ID: LCS 590-30385/2-A
Matrix: Solid
Analysis Batch: 30380

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 30385

Surrogate	LCS		Limits
	%Recovery	Qualifier	
Nitrobenzene-d5	67		33 - 120
2-Fluorobiphenyl (Surr)	80		47 - 120
p-Terphenyl-d14	98		74 - 120

Lab Sample ID: LCSD 590-30385/3-A
Matrix: Solid
Analysis Batch: 30380

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 30385

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec.		RPD	Limit
							Limits	RPD		
Naphthalene	267	200		ug/Kg		75	45 - 120	8	20	
2-Methylnaphthalene	267	222		ug/Kg		83	48 - 120	6	20	
1-Methylnaphthalene	267	215		ug/Kg		81	44 - 120	3	14	
Acenaphthylene	267	238		ug/Kg		89	52 - 120	4	20	
Acenaphthene	267	280		ug/Kg		105	53 - 120	10	11	
Fluorene	267	293		ug/Kg		110	55 - 120	0	21	
Phenanthrene	267	274		ug/Kg		103	57 - 121	1	18	
Anthracene	267	257		ug/Kg		96	60 - 120	1	18	
Fluoranthene	267	270		ug/Kg		101	63 - 127	2	18	
Pyrene	267	287		ug/Kg		108	61 - 125	3	26	
Benzo[a]anthracene	267	297		ug/Kg		111	61 - 131	4	16	
Chrysene	267	287		ug/Kg		107	67 - 127	4	15	
Benzo[b]fluoranthene	267	296		ug/Kg		111	61 - 127	1	16	
Benzo[k]fluoranthene	267	284		ug/Kg		106	63 - 127	1	16	
Benzo[a]pyrene	267	287		ug/Kg		107	60 - 126	5	20	
Indeno[1,2,3-cd]pyrene	267	278		ug/Kg		104	63 - 128	4	18	
Dibenz(a,h)anthracene	267	278		ug/Kg		104	60 - 121	3	18	
Benzo[g,h,i]perylene	267	283		ug/Kg		106	58 - 129	4	17	

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
Nitrobenzene-d5	71		33 - 120
2-Fluorobiphenyl (Surr)	82		47 - 120
p-Terphenyl-d14	90		74 - 120

Lab Sample ID: 590-14565-1 MS
Matrix: Solid
Analysis Batch: 30380

Client Sample ID: SB-16(4'-5')
Prep Type: Total/NA
Prep Batch: 30385

Analyte	Sample		Spike Added	MS		Unit	D	%Rec	%Rec.	
	Result	Qualifier		Result	Qualifier				Limits	RPD
Naphthalene	ND	H3	268	189		ug/Kg	☼	70	45 - 120	
2-Methylnaphthalene	ND	H3	268	213		ug/Kg	☼	78	48 - 120	
1-Methylnaphthalene	ND	H3	268	209		ug/Kg	☼	77	44 - 120	
Acenaphthylene	ND	H3	268	232		ug/Kg	☼	87	52 - 120	
Acenaphthene	32	F2 H3 F1	268	369	F1	ug/Kg	☼	125	53 - 120	
Fluorene	11	H3	268	320		ug/Kg	☼	115	55 - 120	
Phenanthrene	170	F2 H3 F1	268	735	F1	ug/Kg	☼	210	57 - 121	
Anthracene	38	F2 H3 F1	268	395	F1	ug/Kg	☼	133	60 - 120	
Fluoranthene	430	F2 H3 F1	268	1570	E F1	ug/Kg	☼	423	63 - 127	
Pyrene	460	F2 F1 H3	268	1620	E F1	ug/Kg	☼	431	61 - 125	

Eurofins TestAmerica, Spokane

QC Sample Results

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014004

Job ID: 590-14565-1

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

Lab Sample ID: 590-14565-1 MS
Matrix: Solid
Analysis Batch: 30380

Client Sample ID: SB-16(4'-5')
Prep Type: Total/NA
Prep Batch: 30385

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.		
	Result	Qualifier		Result	Qualifier				Limits	RPD	
Benzo[a]anthracene	370	F2 H3 F1	268	1470	E F1	ug/Kg	⊛	411	61 - 131		
Chrysene	430	F2 H3 F1	268	1460	E F1	ug/Kg	⊛	384	67 - 127		
Benzo[b]fluoranthene	580	F2 F1 H3	268	2000	E F1	ug/Kg	⊛	529	61 - 127		
Benzo[k]fluoranthene	210	F2 F1 H3	268	878	F1	ug/Kg	⊛	250	63 - 127		
Benzo[a]pyrene	550	F2 F1 H3	268	1810	E F1	ug/Kg	⊛	472	60 - 126		
Indeno[1,2,3-cd]pyrene	290	F2 H3 F1	268	1120	F1	ug/Kg	⊛	310	63 - 128		
Dibenz(a,h)anthracene	95	F2 H3 F1	268	546	F1	ug/Kg	⊛	168	60 - 121		
Benzo[g,h,i]perylene	390	F2 H3 F1	268	1300	F1	ug/Kg	⊛	342	58 - 129		
MS MS											
Surrogate	%Recovery	Qualifier	Limits								
Nitrobenzene-d5	62		33 - 120								
2-Fluorobiphenyl (Surr)	77		47 - 120								
p-Terphenyl-d14	85		74 - 120								

Lab Sample ID: 590-14565-1 MSD
Matrix: Solid
Analysis Batch: 30380

Client Sample ID: SB-16(4'-5')
Prep Type: Total/NA
Prep Batch: 30385

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.		RPD	
	Result	Qualifier		Result	Qualifier				Limits	RPD	Limit	
Naphthalene	ND	H3	264	160		ug/Kg	⊛	60	45 - 120		17	20
2-Methylnaphthalene	ND	H3	264	187		ug/Kg	⊛	69	48 - 120		13	20
1-Methylnaphthalene	ND	H3	264	188		ug/Kg	⊛	70	44 - 120		11	14
Acenaphthylene	ND	H3	264	215		ug/Kg	⊛	82	52 - 120		8	20
Acenaphthene	32	F2 H3 F1	264	287	F2	ug/Kg	⊛	96	53 - 120		25	11
Fluorene	11	H3	264	275		ug/Kg	⊛	100	55 - 120		15	21
Phenanthrene	170	F2 H3 F1	264	449	F2	ug/Kg	⊛	105	57 - 121		48	18
Anthracene	38	F2 H3 F1	264	288	F2	ug/Kg	⊛	95	60 - 120		31	18
Fluoranthene	430	F2 H3 F1	264	725	F2	ug/Kg	⊛	111	63 - 127		73	18
Pyrene	460	F2 F1 H3	264	801	F1 F2	ug/Kg	⊛	129	61 - 125		68	26
Benzo[a]anthracene	370	F2 H3 F1	264	700	F2	ug/Kg	⊛	127	61 - 131		71	16
Chrysene	430	F2 H3 F1	264	751	F2	ug/Kg	⊛	123	67 - 127		64	15
Benzo[b]fluoranthene	580	F2 F1 H3	264	937	F1 F2	ug/Kg	⊛	137	61 - 127		72	16
Benzo[k]fluoranthene	210	F2 F1 H3	264	562	F1 F2	ug/Kg	⊛	135	63 - 127		44	16
Benzo[a]pyrene	550	F2 F1 H3	264	905	F1 F2	ug/Kg	⊛	136	60 - 126		67	20
Indeno[1,2,3-cd]pyrene	290	F2 H3 F1	264	620	F2	ug/Kg	⊛	127	63 - 128		57	18
Dibenz(a,h)anthracene	95	F2 H3 F1	264	392	F2	ug/Kg	⊛	113	60 - 121		33	18
Benzo[g,h,i]perylene	390	F2 H3 F1	264	727	F2	ug/Kg	⊛	129	58 - 129		57	17
MSD MSD												
Surrogate	%Recovery	Qualifier	Limits									
Nitrobenzene-d5	56		33 - 120									
2-Fluorobiphenyl (Surr)	71		47 - 120									
p-Terphenyl-d14	84		74 - 120									

Lab Chronicle

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014004

Job ID: 590-14565-1

Client Sample ID: SB-16(4'-5')

Date Collected: 10/05/20 14:14

Date Received: 01/26/21 12:10

Lab Sample ID: 590-14565-1

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			30400	01/29/21 08:33	AMB	TAL SPK

Client Sample ID: SB-16(4'-5')

Date Collected: 10/05/20 14:14

Date Received: 01/26/21 12:10

Lab Sample ID: 590-14565-1

Matrix: Solid

Percent Solids: 97.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			15.96 g	2 mL	30385	01/28/21 11:12	NMI	TAL SPK
Total/NA	Analysis	8270E SIM		1			30380	01/28/21 15:05	NMI	TAL SPK

Laboratory References:

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

Accreditation/Certification Summary

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014004

Job ID: 590-14565-1

Laboratory: Eurofins TestAmerica, Spokane

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

<u>Authority</u>	<u>Program</u>	<u>Identification Number</u>	<u>Expiration Date</u>
Washington	State	C569	01-06-22

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

<u>Analysis Method</u>	<u>Prep Method</u>	<u>Matrix</u>	<u>Analyte</u>
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

Method Summary

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014004

Job ID: 590-14565-1

Method	Method Description	Protocol	Laboratory
8270E SIM	Semivolatile Organic Compounds (GC/MS SIM)	SW846	TAL SPK
Moisture	Percent Moisture	EPA	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 = Eurofins TestAmerica, Spokane, 11922 East 1st Ave, Spokane, WA 99206, TEL (509)924-9200

Login Sample Receipt Checklist

Client: Hart Crowser, Inc.

Job Number: 590-14565-1

Login Number: 14565

List Number: 1

Creator: O'Toole, Maria C

List Source: Eurofins TestAmerica, Spokane

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	
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)	False	Refer to Job Narrative for details.
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.

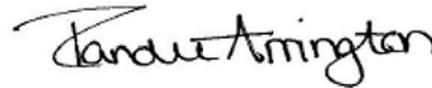
ANALYTICAL REPORT

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

Laboratory Job ID: 590-14723-1
Client Project/Site: CVSD/15014004
Revision: 1

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

Attn: John Haney



Authorized for release by:
3/15/2021 1:07:56 PM

Randee Arrington, Lab Director
(509)924-9200
Randee.Arrington@Eurofinset.com

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



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Case Narrative

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014004

Job ID: 590-14723-1

Job ID: 590-14723-1

Laboratory: Eurofins TestAmerica, Spokane

Narrative

Revision

The report being provided is a revision of the original report sent on 3/11/2021. The report (revision 1) is being revised due to: Client sample IDs were revised due to login error.

Receipt

The samples were received on 3/4/2021 12:00 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 14.5° C.

Receipt Exceptions

The following samples were received at the laboratory outside the required temperature criteria: TP-93 1ft (590-14723-1), TP-94 1ft (590-14723-2), TP-95 1ft (590-14723-3), TP-96 6ft (590-14723-4), TP-97 6ft (590-14723-5) and TP-98 6ft (590-14723-6). 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

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: CVSD/15014004

Job ID: 590-14723-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
590-14723-1	TP-93 (1')	Solid	03/04/21 10:55	03/04/21 13:01	
590-14723-2	TP-94 (1')	Solid	03/04/21 10:47	03/04/21 13:01	
590-14723-3	TP-95 (1')	Solid	03/04/21 10:38	03/04/21 13:01	
590-14723-4	TP-96 (0-6")	Solid	03/04/21 11:30	03/04/21 13:01	
590-14723-5	TP-97 (0-6")	Solid	03/04/21 11:23	03/04/21 13:01	
590-14723-6	TP-98 (0-6")	Solid	03/04/21 11:16	03/04/21 13:01	

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Definitions/Glossary

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014004

Job ID: 590-14723-1

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
CFU	Colony Forming Unit
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)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
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)
TNTC	Too Numerous To Count

Client Sample Results

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014004

Job ID: 590-14723-1

Client Sample ID: TP-93 (1')

Lab Sample ID: 590-14723-1

Date Collected: 03/04/21 10:55

Matrix: Solid

Date Received: 03/04/21 13:01

Percent Solids: 85.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		11		ug/Kg	✱	03/10/21 09:55	03/10/21 14:59	1
2-Methylnaphthalene	ND		11		ug/Kg	✱	03/10/21 09:55	03/10/21 14:59	1
1-Methylnaphthalene	ND		11		ug/Kg	✱	03/10/21 09:55	03/10/21 14:59	1
Acenaphthylene	ND		11		ug/Kg	✱	03/10/21 09:55	03/10/21 14:59	1
Acenaphthene	ND		11		ug/Kg	✱	03/10/21 09:55	03/10/21 14:59	1
Fluorene	ND		11		ug/Kg	✱	03/10/21 09:55	03/10/21 14:59	1
Phenanthrene	ND		11		ug/Kg	✱	03/10/21 09:55	03/10/21 14:59	1
Anthracene	ND		11		ug/Kg	✱	03/10/21 09:55	03/10/21 14:59	1
Fluoranthene	ND		11		ug/Kg	✱	03/10/21 09:55	03/10/21 14:59	1
Pyrene	ND		11		ug/Kg	✱	03/10/21 09:55	03/10/21 14:59	1
Benzo[a]anthracene	ND		11		ug/Kg	✱	03/10/21 09:55	03/10/21 14:59	1
Chrysene	ND		11		ug/Kg	✱	03/10/21 09:55	03/10/21 14:59	1
Benzo[b]fluoranthene	ND		11		ug/Kg	✱	03/10/21 09:55	03/10/21 14:59	1
Benzo[k]fluoranthene	ND		11		ug/Kg	✱	03/10/21 09:55	03/10/21 14:59	1
Benzo[a]pyrene	ND		11		ug/Kg	✱	03/10/21 09:55	03/10/21 14:59	1
Indeno[1,2,3-cd]pyrene	ND		11		ug/Kg	✱	03/10/21 09:55	03/10/21 14:59	1
Dibenz(a,h)anthracene	ND		11		ug/Kg	✱	03/10/21 09:55	03/10/21 14:59	1
Benzo[g,h,i]perylene	ND		11		ug/Kg	✱	03/10/21 09:55	03/10/21 14:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	67		33 - 120	03/10/21 09:55	03/10/21 14:59	1
2-Fluorobiphenyl (Surr)	74		47 - 120	03/10/21 09:55	03/10/21 14:59	1
p-Terphenyl-d14	92		74 - 120	03/10/21 09:55	03/10/21 14:59	1

Client Sample ID: TP-94 (1')

Lab Sample ID: 590-14723-2

Date Collected: 03/04/21 10:47

Matrix: Solid

Date Received: 03/04/21 13:01

Percent Solids: 86.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		11		ug/Kg	✱	03/10/21 09:55	03/10/21 15:25	1
2-Methylnaphthalene	ND		11		ug/Kg	✱	03/10/21 09:55	03/10/21 15:25	1
1-Methylnaphthalene	ND		11		ug/Kg	✱	03/10/21 09:55	03/10/21 15:25	1
Acenaphthylene	ND		11		ug/Kg	✱	03/10/21 09:55	03/10/21 15:25	1
Acenaphthene	ND		11		ug/Kg	✱	03/10/21 09:55	03/10/21 15:25	1
Fluorene	ND		11		ug/Kg	✱	03/10/21 09:55	03/10/21 15:25	1
Phenanthrene	ND		11		ug/Kg	✱	03/10/21 09:55	03/10/21 15:25	1
Anthracene	ND		11		ug/Kg	✱	03/10/21 09:55	03/10/21 15:25	1
Fluoranthene	ND		11		ug/Kg	✱	03/10/21 09:55	03/10/21 15:25	1
Pyrene	ND		11		ug/Kg	✱	03/10/21 09:55	03/10/21 15:25	1
Benzo[a]anthracene	ND		11		ug/Kg	✱	03/10/21 09:55	03/10/21 15:25	1
Chrysene	ND		11		ug/Kg	✱	03/10/21 09:55	03/10/21 15:25	1
Benzo[b]fluoranthene	ND		11		ug/Kg	✱	03/10/21 09:55	03/10/21 15:25	1
Benzo[k]fluoranthene	ND		11		ug/Kg	✱	03/10/21 09:55	03/10/21 15:25	1
Benzo[a]pyrene	ND		11		ug/Kg	✱	03/10/21 09:55	03/10/21 15:25	1
Indeno[1,2,3-cd]pyrene	ND		11		ug/Kg	✱	03/10/21 09:55	03/10/21 15:25	1
Dibenz(a,h)anthracene	ND		11		ug/Kg	✱	03/10/21 09:55	03/10/21 15:25	1
Benzo[g,h,i]perylene	ND		11		ug/Kg	✱	03/10/21 09:55	03/10/21 15:25	1

Eurofins TestAmerica, Spokane

Client Sample Results

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014004

Job ID: 590-14723-1

Client Sample ID: TP-94 (1')

Date Collected: 03/04/21 10:47

Date Received: 03/04/21 13:01

Lab Sample ID: 590-14723-2

Matrix: Solid

Percent Solids: 86.4

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	57		33 - 120	03/10/21 09:55	03/10/21 15:25	1
2-Fluorobiphenyl (Surr)	63		47 - 120	03/10/21 09:55	03/10/21 15:25	1
p-Terphenyl-d14	84		74 - 120	03/10/21 09:55	03/10/21 15:25	1

Client Sample ID: TP-95 (1')

Date Collected: 03/04/21 10:38

Date Received: 03/04/21 13:01

Lab Sample ID: 590-14723-3

Matrix: Solid

Percent Solids: 82.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		12		ug/Kg	☼	03/10/21 09:55	03/10/21 15:51	1
2-Methylnaphthalene	ND		12		ug/Kg	☼	03/10/21 09:55	03/10/21 15:51	1
1-Methylnaphthalene	ND		12		ug/Kg	☼	03/10/21 09:55	03/10/21 15:51	1
Acenaphthylene	ND		12		ug/Kg	☼	03/10/21 09:55	03/10/21 15:51	1
Acenaphthene	ND		12		ug/Kg	☼	03/10/21 09:55	03/10/21 15:51	1
Fluorene	ND		12		ug/Kg	☼	03/10/21 09:55	03/10/21 15:51	1
Phenanthrene	ND		12		ug/Kg	☼	03/10/21 09:55	03/10/21 15:51	1
Anthracene	ND		12		ug/Kg	☼	03/10/21 09:55	03/10/21 15:51	1
Fluoranthene	13		12		ug/Kg	☼	03/10/21 09:55	03/10/21 15:51	1
Pyrene	20		12		ug/Kg	☼	03/10/21 09:55	03/10/21 15:51	1
Benzo[a]anthracene	13		12		ug/Kg	☼	03/10/21 09:55	03/10/21 15:51	1
Chrysene	17		12		ug/Kg	☼	03/10/21 09:55	03/10/21 15:51	1
Benzo[b]fluoranthene	21		12		ug/Kg	☼	03/10/21 09:55	03/10/21 15:51	1
Benzo[k]fluoranthene	ND		12		ug/Kg	☼	03/10/21 09:55	03/10/21 15:51	1
Benzo[a]pyrene	18		12		ug/Kg	☼	03/10/21 09:55	03/10/21 15:51	1
Indeno[1,2,3-cd]pyrene	ND		12		ug/Kg	☼	03/10/21 09:55	03/10/21 15:51	1
Dibenz(a,h)anthracene	ND		12		ug/Kg	☼	03/10/21 09:55	03/10/21 15:51	1
Benzo[g,h,i]perylene	13		12		ug/Kg	☼	03/10/21 09:55	03/10/21 15:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	73		33 - 120	03/10/21 09:55	03/10/21 15:51	1
2-Fluorobiphenyl (Surr)	76		47 - 120	03/10/21 09:55	03/10/21 15:51	1
p-Terphenyl-d14	89		74 - 120	03/10/21 09:55	03/10/21 15:51	1

Client Sample ID: TP-96 (0-6")

Date Collected: 03/04/21 11:30

Date Received: 03/04/21 13:01

Lab Sample ID: 590-14723-4

Matrix: Solid

Percent Solids: 79.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		12		ug/Kg	☼	03/10/21 09:55	03/10/21 16:18	1
2-Methylnaphthalene	ND		12		ug/Kg	☼	03/10/21 09:55	03/10/21 16:18	1
1-Methylnaphthalene	ND		12		ug/Kg	☼	03/10/21 09:55	03/10/21 16:18	1
Acenaphthylene	ND		12		ug/Kg	☼	03/10/21 09:55	03/10/21 16:18	1
Acenaphthene	ND		12		ug/Kg	☼	03/10/21 09:55	03/10/21 16:18	1
Fluorene	ND		12		ug/Kg	☼	03/10/21 09:55	03/10/21 16:18	1
Phenanthrene	16		12		ug/Kg	☼	03/10/21 09:55	03/10/21 16:18	1
Anthracene	ND		12		ug/Kg	☼	03/10/21 09:55	03/10/21 16:18	1
Fluoranthene	42		12		ug/Kg	☼	03/10/21 09:55	03/10/21 16:18	1
Pyrene	54		12		ug/Kg	☼	03/10/21 09:55	03/10/21 16:18	1
Benzo[a]anthracene	37		12		ug/Kg	☼	03/10/21 09:55	03/10/21 16:18	1

Eurofins TestAmerica, Spokane

Client Sample Results

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014004

Job ID: 590-14723-1

Client Sample ID: TP-96 (0-6")

Lab Sample ID: 590-14723-4

Date Collected: 03/04/21 11:30

Matrix: Solid

Date Received: 03/04/21 13:01

Percent Solids: 79.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	48		12		ug/Kg	☼	03/10/21 09:55	03/10/21 16:18	1
Benzo[b]fluoranthene	62		12		ug/Kg	☼	03/10/21 09:55	03/10/21 16:18	1
Benzo[k]fluoranthene	24		12		ug/Kg	☼	03/10/21 09:55	03/10/21 16:18	1
Benzo[a]pyrene	56		12		ug/Kg	☼	03/10/21 09:55	03/10/21 16:18	1
Indeno[1,2,3-cd]pyrene	31		12		ug/Kg	☼	03/10/21 09:55	03/10/21 16:18	1
Dibenz(a,h)anthracene	12		12		ug/Kg	☼	03/10/21 09:55	03/10/21 16:18	1
Benzo[g,h,i]perylene	41		12		ug/Kg	☼	03/10/21 09:55	03/10/21 16:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	72		33 - 120	03/10/21 09:55	03/10/21 16:18	1
2-Fluorobiphenyl (Surr)	75		47 - 120	03/10/21 09:55	03/10/21 16:18	1
p-Terphenyl-d14	91		74 - 120	03/10/21 09:55	03/10/21 16:18	1

Client Sample ID: TP-97 (0-6")

Lab Sample ID: 590-14723-5

Date Collected: 03/04/21 11:23

Matrix: Solid

Date Received: 03/04/21 13:01

Percent Solids: 84.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		11		ug/Kg	☼	03/10/21 09:55	03/10/21 16:44	1
2-Methylnaphthalene	ND		11		ug/Kg	☼	03/10/21 09:55	03/10/21 16:44	1
1-Methylnaphthalene	ND		11		ug/Kg	☼	03/10/21 09:55	03/10/21 16:44	1
Acenaphthylene	ND		11		ug/Kg	☼	03/10/21 09:55	03/10/21 16:44	1
Acenaphthene	ND		11		ug/Kg	☼	03/10/21 09:55	03/10/21 16:44	1
Fluorene	ND		11		ug/Kg	☼	03/10/21 09:55	03/10/21 16:44	1
Phenanthrene	15		11		ug/Kg	☼	03/10/21 09:55	03/10/21 16:44	1
Anthracene	ND		11		ug/Kg	☼	03/10/21 09:55	03/10/21 16:44	1
Fluoranthene	46		11		ug/Kg	☼	03/10/21 09:55	03/10/21 16:44	1
Pyrene	57		11		ug/Kg	☼	03/10/21 09:55	03/10/21 16:44	1
Benzo[a]anthracene	42		11		ug/Kg	☼	03/10/21 09:55	03/10/21 16:44	1
Chrysene	55		11		ug/Kg	☼	03/10/21 09:55	03/10/21 16:44	1
Benzo[b]fluoranthene	75		11		ug/Kg	☼	03/10/21 09:55	03/10/21 16:44	1
Benzo[k]fluoranthene	28		11		ug/Kg	☼	03/10/21 09:55	03/10/21 16:44	1
Benzo[a]pyrene	65		11		ug/Kg	☼	03/10/21 09:55	03/10/21 16:44	1
Indeno[1,2,3-cd]pyrene	38		11		ug/Kg	☼	03/10/21 09:55	03/10/21 16:44	1
Dibenz(a,h)anthracene	13		11		ug/Kg	☼	03/10/21 09:55	03/10/21 16:44	1
Benzo[g,h,i]perylene	50		11		ug/Kg	☼	03/10/21 09:55	03/10/21 16:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	61		33 - 120	03/10/21 09:55	03/10/21 16:44	1
2-Fluorobiphenyl (Surr)	70		47 - 120	03/10/21 09:55	03/10/21 16:44	1
p-Terphenyl-d14	91		74 - 120	03/10/21 09:55	03/10/21 16:44	1

Client Sample ID: TP-98 (0-6")

Lab Sample ID: 590-14723-6

Date Collected: 03/04/21 11:16

Matrix: Solid

Date Received: 03/04/21 13:01

Percent Solids: 82.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		11		ug/Kg	☼	03/10/21 09:55	03/10/21 17:10	1
2-Methylnaphthalene	ND		11		ug/Kg	☼	03/10/21 09:55	03/10/21 17:10	1

Eurofins TestAmerica, Spokane

Client Sample Results

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014004

Job ID: 590-14723-1

Client Sample ID: TP-98 (0-6")

Lab Sample ID: 590-14723-6

Date Collected: 03/04/21 11:16

Matrix: Solid

Date Received: 03/04/21 13:01

Percent Solids: 82.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	ND		11		ug/Kg	☼	03/10/21 09:55	03/10/21 17:10	1
Acenaphthylene	ND		11		ug/Kg	☼	03/10/21 09:55	03/10/21 17:10	1
Acenaphthene	ND		11		ug/Kg	☼	03/10/21 09:55	03/10/21 17:10	1
Fluorene	ND		11		ug/Kg	☼	03/10/21 09:55	03/10/21 17:10	1
Phenanthrene	11		11		ug/Kg	☼	03/10/21 09:55	03/10/21 17:10	1
Anthracene	ND		11		ug/Kg	☼	03/10/21 09:55	03/10/21 17:10	1
Fluoranthene	23		11		ug/Kg	☼	03/10/21 09:55	03/10/21 17:10	1
Pyrene	30		11		ug/Kg	☼	03/10/21 09:55	03/10/21 17:10	1
Benzo[a]anthracene	22		11		ug/Kg	☼	03/10/21 09:55	03/10/21 17:10	1
Chrysene	27		11		ug/Kg	☼	03/10/21 09:55	03/10/21 17:10	1
Benzo[b]fluoranthene	39		11		ug/Kg	☼	03/10/21 09:55	03/10/21 17:10	1
Benzo[k]fluoranthene	15		11		ug/Kg	☼	03/10/21 09:55	03/10/21 17:10	1
Benzo[a]pyrene	35		11		ug/Kg	☼	03/10/21 09:55	03/10/21 17:10	1
Indeno[1,2,3-cd]pyrene	20		11		ug/Kg	☼	03/10/21 09:55	03/10/21 17:10	1
Dibenz(a,h)anthracene	ND		11		ug/Kg	☼	03/10/21 09:55	03/10/21 17:10	1
Benzo[g,h,i]perylene	26		11		ug/Kg	☼	03/10/21 09:55	03/10/21 17:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	65		33 - 120	03/10/21 09:55	03/10/21 17:10	1
2-Fluorobiphenyl (Surr)	71		47 - 120	03/10/21 09:55	03/10/21 17:10	1
p-Terphenyl-d14	86		74 - 120	03/10/21 09:55	03/10/21 17:10	1

QC Sample Results

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014004

Job ID: 590-14723-1

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

Lab Sample ID: MB 590-30848/1-A
Matrix: Solid
Analysis Batch: 30845

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 30848

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		10		ug/Kg		03/10/21 09:55	03/10/21 11:28	1
2-Methylnaphthalene	ND		10		ug/Kg		03/10/21 09:55	03/10/21 11:28	1
1-Methylnaphthalene	ND		10		ug/Kg		03/10/21 09:55	03/10/21 11:28	1
Acenaphthylene	ND		10		ug/Kg		03/10/21 09:55	03/10/21 11:28	1
Acenaphthene	ND		10		ug/Kg		03/10/21 09:55	03/10/21 11:28	1
Fluorene	ND		10		ug/Kg		03/10/21 09:55	03/10/21 11:28	1
Phenanthrene	ND		10		ug/Kg		03/10/21 09:55	03/10/21 11:28	1
Anthracene	ND		10		ug/Kg		03/10/21 09:55	03/10/21 11:28	1
Fluoranthene	ND		10		ug/Kg		03/10/21 09:55	03/10/21 11:28	1
Pyrene	ND		10		ug/Kg		03/10/21 09:55	03/10/21 11:28	1
Benzo[a]anthracene	ND		10		ug/Kg		03/10/21 09:55	03/10/21 11:28	1
Chrysene	ND		10		ug/Kg		03/10/21 09:55	03/10/21 11:28	1
Benzo[b]fluoranthene	ND		10		ug/Kg		03/10/21 09:55	03/10/21 11:28	1
Benzo[k]fluoranthene	ND		10		ug/Kg		03/10/21 09:55	03/10/21 11:28	1
Benzo[a]pyrene	ND		10		ug/Kg		03/10/21 09:55	03/10/21 11:28	1
Indeno[1,2,3-cd]pyrene	ND		10		ug/Kg		03/10/21 09:55	03/10/21 11:28	1
Dibenz(a,h)anthracene	ND		10		ug/Kg		03/10/21 09:55	03/10/21 11:28	1
Benzo[g,h,i]perylene	ND		10		ug/Kg		03/10/21 09:55	03/10/21 11:28	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	82		33 - 120	03/10/21 09:55	03/10/21 11:28	1
2-Fluorobiphenyl (Surr)	87		47 - 120	03/10/21 09:55	03/10/21 11:28	1
p-Terphenyl-d14	105		74 - 120	03/10/21 09:55	03/10/21 11:28	1

Lab Sample ID: LCS 590-30848/2-A
Matrix: Solid
Analysis Batch: 30845

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 30848

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Naphthalene	267	189		ug/Kg		71	45 - 120
2-Methylnaphthalene	267	227		ug/Kg		85	48 - 120
1-Methylnaphthalene	267	220		ug/Kg		83	44 - 120
Acenaphthylene	267	188		ug/Kg		70	52 - 120
Acenaphthene	267	224		ug/Kg		84	53 - 120
Fluorene	267	229		ug/Kg		86	55 - 120
Phenanthrene	267	235		ug/Kg		88	57 - 121
Anthracene	267	230		ug/Kg		86	60 - 120
Fluoranthene	267	231		ug/Kg		87	63 - 127
Pyrene	267	247		ug/Kg		93	61 - 125
Benzo[a]anthracene	267	246		ug/Kg		92	61 - 131
Chrysene	267	248		ug/Kg		93	67 - 127
Benzo[b]fluoranthene	267	248		ug/Kg		93	61 - 127
Benzo[k]fluoranthene	267	240		ug/Kg		90	63 - 127
Benzo[a]pyrene	267	227		ug/Kg		85	60 - 126
Indeno[1,2,3-cd]pyrene	267	232		ug/Kg		87	63 - 128
Dibenz(a,h)anthracene	267	223		ug/Kg		84	60 - 121
Benzo[g,h,i]perylene	267	232		ug/Kg		87	58 - 129

Eurofins TestAmerica, Spokane

QC Sample Results

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014004

Job ID: 590-14723-1

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

Lab Sample ID: LCS 590-30848/2-A
Matrix: Solid
Analysis Batch: 30845

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 30848

<u>Surrogate</u>	<u>LCS LCS</u>		<u>Limits</u>
	<u>%Recovery</u>	<u>Qualifier</u>	
<i>Nitrobenzene-d5</i>	86		33 - 120
<i>2-Fluorobiphenyl (Surr)</i>	85		47 - 120
<i>p-Terphenyl-d14</i>	101		74 - 120

Lab Chronicle

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014004

Job ID: 590-14723-1

Client Sample ID: TP-93 (1')

Date Collected: 03/04/21 10:55

Date Received: 03/04/21 13:01

Lab Sample ID: 590-14723-1

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			30805	03/08/21 09:03	AMB	TAL SPK

Client Sample ID: TP-93 (1')

Date Collected: 03/04/21 10:55

Date Received: 03/04/21 13:01

Lab Sample ID: 590-14723-1

Matrix: Solid

Percent Solids: 85.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			15.45 g	2 mL	30848	03/10/21 09:55	NMI	TAL SPK
Total/NA	Analysis	8270E SIM		1			30845	03/10/21 14:59	NMI	TAL SPK

Client Sample ID: TP-94 (1')

Date Collected: 03/04/21 10:47

Date Received: 03/04/21 13:01

Lab Sample ID: 590-14723-2

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			30805	03/08/21 09:03	AMB	TAL SPK

Client Sample ID: TP-94 (1')

Date Collected: 03/04/21 10:47

Date Received: 03/04/21 13:01

Lab Sample ID: 590-14723-2

Matrix: Solid

Percent Solids: 86.4

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	30848	03/10/21 09:55	NMI	TAL SPK
Total/NA	Analysis	8270E SIM		1			30845	03/10/21 15:25	NMI	TAL SPK

Client Sample ID: TP-95 (1')

Date Collected: 03/04/21 10:38

Date Received: 03/04/21 13:01

Lab Sample ID: 590-14723-3

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			30805	03/08/21 09:03	AMB	TAL SPK

Client Sample ID: TP-95 (1')

Date Collected: 03/04/21 10:38

Date Received: 03/04/21 13:01

Lab Sample ID: 590-14723-3

Matrix: Solid

Percent Solids: 82.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			15.54 g	2 mL	30848	03/10/21 09:55	NMI	TAL SPK
Total/NA	Analysis	8270E SIM		1			30845	03/10/21 15:51	NMI	TAL SPK

Client Sample ID: TP-96 (0-6")

Date Collected: 03/04/21 11:30

Date Received: 03/04/21 13:01

Lab Sample ID: 590-14723-4

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			30805	03/08/21 09:03	AMB	TAL SPK

Eurofins TestAmerica, Spokane

Lab Chronicle

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014004

Job ID: 590-14723-1

Client Sample ID: TP-96 (0-6")

Date Collected: 03/04/21 11:30

Date Received: 03/04/21 13:01

Lab Sample ID: 590-14723-4

Matrix: Solid

Percent Solids: 79.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			15.26 g	2 mL	30848	03/10/21 09:55	NMI	TAL SPK
Total/NA	Analysis	8270E SIM		1			30845	03/10/21 16:18	NMI	TAL SPK

Client Sample ID: TP-97 (0-6")

Date Collected: 03/04/21 11:23

Date Received: 03/04/21 13:01

Lab Sample ID: 590-14723-5

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			30805	03/08/21 09:03	AMB	TAL SPK

Client Sample ID: TP-97 (0-6")

Date Collected: 03/04/21 11:23

Date Received: 03/04/21 13:01

Lab Sample ID: 590-14723-5

Matrix: Solid

Percent Solids: 84.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			15.56 g	2 mL	30848	03/10/21 09:55	NMI	TAL SPK
Total/NA	Analysis	8270E SIM		1			30845	03/10/21 16:44	NMI	TAL SPK

Client Sample ID: TP-98 (0-6")

Date Collected: 03/04/21 11:16

Date Received: 03/04/21 13:01

Lab Sample ID: 590-14723-6

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			30805	03/08/21 09:03	AMB	TAL SPK

Client Sample ID: TP-98 (0-6")

Date Collected: 03/04/21 11:16

Date Received: 03/04/21 13:01

Lab Sample ID: 590-14723-6

Matrix: Solid

Percent Solids: 82.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			15.85 g	2 mL	30848	03/10/21 09:55	NMI	TAL SPK
Total/NA	Analysis	8270E SIM		1			30845	03/10/21 17:10	NMI	TAL SPK

Laboratory References:

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

Accreditation/Certification Summary

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014004

Job ID: 590-14723-1

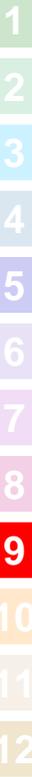
Laboratory: Eurofins TestAmerica, Spokane

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

<u>Authority</u>	<u>Program</u>	<u>Identification Number</u>	<u>Expiration Date</u>
Washington	State	C569	01-06-22

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

<u>Analysis Method</u>	<u>Prep Method</u>	<u>Matrix</u>	<u>Analyte</u>
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids



Method Summary

Client: Hart Crowser, Inc.
Project/Site: CVSD/15014004

Job ID: 590-14723-1

Method	Method Description	Protocol	Laboratory
8270E SIM	Semivolatile Organic Compounds (GC/MS SIM)	SW846	TAL SPK
Moisture	Percent Moisture	EPA	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 = Eurofins TestAmerica, Spokane, 11922 East 1st Ave, Spokane, WA 99206, TEL (509)924-9200

Login Sample Receipt Checklist

Client: Hart Crowser, Inc.

Job Number: 590-14723-1

Login Number: 14723
List Number: 1
Creator: O'Toole, Maria C

List Source: Eurofins TestAmerica, Spokane

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.	N/A	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?	N/A	Not present
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.