CORNERSTONE EARTH GROUP

Type of Services	**Final Preliminary Endangerment Assessment Report**
Location	**Planned Tribal School** **3141 Taylor Road** **Placer County, California**
Prepared For	**UNITED AUBURN INDIAN COMMUNITY** **10720 Indian Hills Road** **Auburn, California 95650**
Project Number	**411-16-3**
Date	**November 16, 2017**

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Type of Services	**Final Preliminary Endangerment Assessment Report**
Location	**3141 Taylor Road** **Placer County, California**

SECTION 1: INTRODUCTION

This Final Preliminary Endangerment Assessment (PEA) report was prepared to evaluate current Site conditions at the planned Tribal School at 3141 Taylor Road in Placer County, California (Site) as shown on Figures 1 and 2. This PEA report was prepared in accordance with the PEA Work Plan dated June 28, 2017 prepared by Cornerstone Earth Group (Cornerstone). A copy of the Department of Toxic Substances Control (DTSC) PEA Work Plan approval letter dated June 29, 2017 is included in Appendix A.

This PEA was prepared to evaluate potential areas of environmental concern identified during the PEA scoping meeting on May 3, 2017 with the Department of Toxic Substance Control (DTSC) and UAIC. UAIC entered a Voluntary Cleanup Agreement (VCA) with the Department of Toxic Substances Control (DTSC) on May 25, 2017.

1.1 SITE DESCRIPTION

The project Site is located at 3141 Taylor Road in Loomis, California. The approximately 42.3-acre Site (Assessor's Parcel Number [APN] 043-013-010-000) is currently undeveloped except for six structures: two 2-story buildings formerly used as an inn and annex, a single-story event space, a caretaker's residence, a detached garage, and a maintenance barn (Figure 2). The Site is bounded by Taylor Road from the north, Tumble Lane to the east, and residential developments to the west and south.

1.2 PLANNED DEVELOPMENT

We understand that a private school is currently planned that will include an elementary school, a middle school, a tribal education center, library with pre-kindergarten classrooms, and a science/cultural arts building. A recreation field, garden and cultural center are also planned. The current development plan is shown on Figure 3.

Appurtenant parking, landscaping, and other improvements necessary for Site development are anticipated.

1.3 PEA OBJECTIVES

As defined by DTSC, a PEA is performed to determine whether current or past hazardous material management practices or waste management practices have resulted in the release or threatened release of hazardous materials, or whether naturally occurring hazardous materials are present, which pose a threat to public health or the environment. The PEA is also applicable to releases of hazardous materials. Specific objectives of the PEA include:

- Determining if a release of hazardous wastes/substances/materials has occurred at a Site and delineating the general extent of the contamination.
- Evaluating available information for indications of naturally-occurring hazardous materials at the Site.
- Estimating the potential threat to public health and/or the environment posed by the Site and providing an indicator of the relative risk.
- Determining if an interim action is required to reduce an existing or potential threat to public health or the environment.
- Completing preliminary project scoping activities to determine data gaps and identify possible remedial action strategies to form the basis for development of a Site strategy.
- Providing the data and information to the DTSC.
- Assessing and providing for the informational needs of the community.

SECTION 2: PRIOR ENVIRONMENTAL STUDIES

In November 2015, Professional Services Industries, Inc (PSI) prepared a Phase I Environmental Site Assessment (ESA) for the Site (PSI, 2015). In December 2016, Cornerstone performed a preliminary soil quality evaluation (Cornerstone, 2016); these results also were presented in the PEA Work Plan. Selected information from these reports is presented below; please refer directly to these documents for a more complete overview of the Site.

2.1 SITE HISTORY

Based on the information presented in the Phase I ESA, the Site appears to have been occupied by an orchard in 1938, with a residence. The residence appears to be in the same location as the current Inn and caretaker's home. By 1966, the orchard appeared to be diminishing in extent and density of trees, although remnants of apparent orchard trees are visible on aerial photographs through 2005. The current structures and pond are visible on the 1984 aerial photograph.

During the 2015 Phase I ESA, small quantities of lubricants, oils, gasoline and herbicides were reported stored within the barn. No staining or other evidence of a release from these materials was reportedly observed.

A septic tank was reportedly located on-Site. In addition, a water supply well was reportedly located in the garden on the northwest portion of the Site.

No hazardous materials release incidents were reported in the Site vicinity that appeared likely to significantly affect ground water or soil vapor quality beneath the Site.

2.2 PHASE I ESA FINDINGS

The Phase I ESA concluded that no hazardous waste or materials were identified at the Site that would constitute a Recognized Environmental Condition[1] (REC). No significant data gaps were identified during the Phase I ESA, no Historical Recognized Environmental Conditions[2], or Controlled Recognized Environmental Conditions[3] were identified during PSI's Phase I ESA.

2.3 DECEMBER 2016 LIMITED PHASE II SOIL QUALITY EVAULATION

On December 16, 2016, Cornerstone's staff geologist collected 24 near-surface soil samples from across the former agricultural area of the Site, with approximately one sample per acre (Figures 4a and 4b). Sample frequency of the former agricultural area was selected in general accordance with the Department of Toxic Substances Control (DTSC) "Interim Guidance for Sampling Agricultural Fields for School Sites (Second Revision)" (August 26, 2002). Samples were collected from the natural ground surface to a depth of approximately ½ foot using hand-sampling equipment.

Following standard protocols, Cornerstone's staff engineer collected soil samples in new and pre-cleaned 2½ inch by 6-inch stainless steel liners and were taped, capped, and labeled with a unique identification number. All samples were labeled with a unique name and were placed in an ice chilled cooler and transported under chain of custody documentation to a State certified analytical testing lab. Analytical results were reported by the laboratory based on a wet-weight basis.

2.3.1 SOIL QUALITY RESULTS

The laboratory analytical results are as follows:

- Dichlorodiphenyltrichloroethane (DDT) was detected in 22 of 24 soil samples at concentrations up to 0.138 mg/kg. The residential RSL for DDT is 1.9 mg/kg. The DDT detected in the Site's topsoil does not appear to pose a significant risk to human health for the planned school Site use.

- Dichlorodiphenyldichloroethane(DDD) was detected in 2 of 24 soil samples at concentrations up to 0.0186 mg/kg. The residential RSL for DDD is 2.2 mg/kg. The DDD detected in the Site's topsoil does not appear to pose a significant risk to human health for the planned school Site use.

- Dichlorodiphenyldichloroethylene (DDE) was detected in 24 of 24 soil samples at concentrations up to 0.522 mg/kg. The residential RSL for DDE is 1.6 mg/kg. The DDE detected in the Site's topsoil does not appear to pose a significant risk to human health for the planned school Site use.

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[1] The presence or likely presence of hazardous substances or petroleum products on the Site: 1) due to significant release to the environment; 2) under conditions indicative of a significant release to the environment; or 3) under conditions that pose a material threat of a future significant release to the environment.

[2] A past Recognized Environmental Condition has been addressed to the satisfaction of the applicable regulatory agency or meeting of unrestricted use criteria established by the applicable regulatory agency without subjecting the Site to required controls or restrictions.

[3] A Recognized Environmental Condition that has been addressed to the satisfaction of the applicable regulatory agency with hazardous substances

- Total DDT (the sum of DDT, DDD and DDE) was detected at concentrations less than the TTLC value of 1.0 mg/kg in all 24 soil samples analyzed.
- No other organochlorine pesticide (OCP) compounds were detected.
- Lead was detected at concentrations ranging between 3.75 mg/kg and 79.8 mg/kg; all detected lead concentrations were below the residential DTSC-SL of 80 mg/kg.
- Arsenic was detected at concentrations ranging between 4.07 mg/kg and 29.2 mg/kg. Arsenic was detected exceeding the established threshold of 12 mg/kg, set in the DTSC document Interim Guidance for Sampling Agriculture Properties (DTSC, 2008) in six of 24 samples analyzed.
- Mercury was not detected above the laboratory reporting limits.

SECTION 3: AREAS OF POTENTIAL CONCERN REQUIRING FURTHER EVALUATION

The PEA Work Plan described the following areas of potential concern that required additional investigation. Results of the PEA Work Plan implementation are summarized in Section 5.

3.1 POLYCHLORINATED BIPHENYLS (PCBS) – TRANSFORMERS

Two pole-mounted transformers are located on-Site; one near Taylor Road, and one near the event building (Figure 2). There is a potential that PCBs may have been historically used within the transformers. PCBs are man-made chemicals commonly used in the past as coolants and lubricants. PCBs are found as a clear to yellow, heavy oily liquid or waxy solid. PCBs were frequently used as insulation in electrical equipment because of their stability, low water solubility, high boiling point, low flammability, and low electrical conductivity. Prior to 1978, PCBs were often used in the manufacture of transformers and capacitors, and leaks or releases from transformers producing contaminated areas have been documented. The age of the transformer does not necessarily indicate the presence or absence of impacts to soil from PCBs, as releases of PCBs from a previous transformer may have occurred before its replacement. Once released to the environment, PCBs bind to soil particles and are very persistent.

3.2 LEAD PAINT, PEST CONTROL, AND PCB BUILDING MATERIALS

Soil adjacent to former and existing structures that are painted with lead-containing paint and/or caulking around windows containing polychlorinated biphenyls (PCBs) can become impacted with lead and/or PCBs as a result of the weathering and/or peeling of painted and/or caulked surfaces. Soil near wood framed structures also can be impacted by OCPs used to control termites. Due to the age of the existing and former structures, there is a potential that residual concentrations of lead, PCBs, and/or OCPs may be present in the shallow soil near these structures.

3.3 POND SEDIMENT SAMPLING

The Site topography generally slopes to the northeast towards the pond. During heavy rainfall events, overland flow could transport surface soil to the pond. During our May 3, 2017 scoping meeting, DTSC staff requested sampling of the sediment in the pond to determine if OCPs or pesticide related metals have been transported and deposited in the pond.

3.4 ARSENIC IN SOIL

As noted above, arsenic was detected in soil samples collected in December 2016 potentially exceeding published regional background levels. The greatest concentration of arsenic was detected in sample SS-12 at 29.2 mg/kg. Step-out samples were collected around the sample to determine the lateral extent of the elevated arsenic detected; an evaluation of Site-specific arsenic concentration is presented in Section 6.1.

3.5 NATURALLY OCCURRING ASBESTOS

Asbestos occurs naturally in ultramafic rock. The six regulated asbestos-form minerals include: Chrysotile, Amosite, Crocidolite, Tremolite, Anthophyllite, and Actinolite. When this material or other Asbestos-form minerals are disturbed in connection with construction or grading, asbestos-containing dust can be generated. Exposure to asbestos can result in health ailments. The Department of Toxic Substances Control (DTSC) 2004 interim guidance document titled *Naturally Occurring Asbestos (NOA) at School Sites* recommends soil sampling when a proposed school site is located within a 10-mile radius of an NOA geologic formation.

The Site is located within the Sierra Nevada geomorphic province, a tilted fault block almost 400 miles long that is characterized by intrusions of granitic rocks and block faulting along its eastern boundary. The Site is located on the western slope of the Sierra Nevada mountain range.

Based on our review of readily available geologic maps, the nearest ultramafic geologic formation that may contain NOA is located approximately 4.5 miles east of the Site (Figure 6). Another ultramafic outcrop is mapped approximately 8 miles north-northeast of the Site.

Soil in areas downslope of ultramafic NOA-containing rock may contain NOA because of ultramafic particles transported by gravitational and hydrologic processes. The ultramafic geologic formation outcrops are separated from the Site by the American River, other topographic lows and ridges. Because the intervening elevation lows and ridges between the ultramafic outcrops and the Site, transport of soil/sediment from these outcrops to the Site is not considered likely. Therefore, NOA is not suspected to be present in soil beneath the Site.

3.6 CAM 17 METALS

Surface soil samples collected in December 2016 were analyzed for arsenic, lead and mercury as an initial soil quality screening. In accordance with our May 3, 2017 meeting with DTSC, analyses for 17 California Assessment Manual (CAM) metals was required.

SECTION 4: ENVIRONMENTAL SETTING

4.1 PHYSICAL SETTING

A 1978 USGS 7.5 minute topographic map was reviewed to evaluate the physical setting of the Site. The Site's elevation is approximately 450 feet above mean sea level; topography in the vicinity of the Site slopes downward gently to the southwest towards the Central Valley.

4.2 GEOLOGY AND HYDROGEOLOGY

4.2.1 LOCAL GEOLOGY

The Site is located on the eastern transition of Sacramento Valley to the base of the Sierra Nevada foothills, where sandy loam overlays Mesozoic dioritic to granitic rocks. The Sierra Nevada batholith consisting of metavolcanics, gabbroic, and ultramafic rocks. The 1987 California Division of Mines and Geology *Geologic Map of the Sacramento Quadrangle* shows the subject property to be underlain by Mesozoic dioritic (granite-like) rock.

4.2.2 HYDROGEOLOGY

Based on information reviewed from PSI's 2015 Phase I ESA, quarterly groundwater monitoring report for former Penryn Beacon located at 3129 Penryn Road, Penryn, California, approximately ¼ mile east of the Site, shallow groundwater is approximately 15 to 20 feet below ground surface, and reportedly moves to the southwest. Groundwater flow beneath the Site is likely influenced by surface topography and the on-Site pond.

4.3 EXPOSURE PATHWAYS

Exposure pathways are the mechanisms by which a receptor (e.g. construction worker or future Site user) may contact contaminants of potential concern (COPCs) at the Site. Exposure pathways consist of three parts: (1) a source of contaminants, (2) an exposure point where the receptor may come into contact with contaminants (e.g. contaminated soil, drinking water, and/or indoor air), and (3) an exposure route (e.g. dermal, ingestion, and/or inhalation).

Arsenic was detected exceeding background concentrations in several soil samples. Concentrations of lead and OCPs detected in shallow surface samples were below residential screening criteria. As noted above, additional sampling was performed to evaluate the presence of OCPs and lead at locations of current structures and sediment in the pond. Therefore, the contaminants of potential concern (COPC) in shallow soil consist of arsenic, lead and OCPs.

No PCBs were detected in the soil samples analyzed. Therefore, PCBs are not considered COPC for the Site.

The physical characteristics of OCPs, arsenic and lead mainly make them relatively persistent and immobile. These COPC typically do not readily dissolve in water and migrate to ground water, as they readily adsorb to soil particles. Additionally, these COPC will not readily volatilize or migrate as vapors. These chemicals may migrate if adsorbed to soil particles that become entrained into ambient air as a result of wind erosion of surface soil.

There are no identified COPC for soil vapor or ground water on-Site.

4.4 CONCEPTUAL SITE MODEL

A conceptual site model (CSM) was developed to assist in understanding Site conditions and potential pathways by which humans may be exposed to contaminants of concern at the Site. An exposure pathway is considered complete if it presents a means of exposure to a receptor. A complete exposure pathway includes all of the following: a source of contamination, release mechanism, transport mechanism, exposure point, and a receptor. Figure 5 presents the CSM for the Site.

SECTION 5: IMPLEMENTATION OF PEA WORK PLAN

5.1 SOIL SAMPLING

On July 18, 2017, Cornerstone's field geologists implemented the sampling and analyses plan presented in the DTSC-approved PEA Work Plan. Tables 1 and 2 presented below summarize the implemented sampling and analyses activities. Approximate sampling locations are shown on Figures 4A and 4B.

Soil sample locations were marked with semi-permanent stakes and/or markers on exposed soil or with white locating paint on hardscape surfaces to help identify the original sample location in order to be relocated. No Site demolition or grading activities are anticipated during this PEA investigation that could disturb Site features, landmarks, and/or boring stakes/markings. A hand held Global Positioning System (GPS) device was used to locate sample locations.

Table 1. Sample Handling and Testing Requirements

Chemical(s)	Test Method	Sample Container	Minimum Reporting Limits*	Storage Temperature	Hold Times
OCPs	8081A	Stainless Steel liner	2 µg/kg; 40 µg/kg for Chlordane	4º C	14 Days
PCBs	8082	Stainless Steel liner	50 µg/kg	4º C	14 Days
Metals	6010B	Stainless Steel liner	0.5 mg/kg	4º C	180 Days

* For samples with no dilution. Reporting limits may be higher for samples that require dilution due to elevated concentrations.

Table 2. Sampling and Analyses Plan

Boring/Sample ID	Sample Location	Media	Depth (feet)	CAM 17 Metals	OCPs	Arsenic	PCBs	Area of Potential Concern (AOPC)
SS-1 through SS-24	Samples Collected December 16, 2016	Soil	0-0.5	X				Re-Sample and Analyze for CAM 17 Metals
SS-25	Exterior Perimeter of Inn and Annex Buildings	Soil	0-0.5	X	X		X	Lead Based Paint/OCPs/PCBs
SS-26		Soil	0-0.5	X	X		X	Lead Based Paint/OCPs/PCBs
SS-27		Soil	0-0.5	X	X		X	Lead Based Paint/OCPs/PCBs
SS-28		Soil	0-0.5	X	X		X	Lead Based Paint/OCPs/PCBs
SS-29		Soil	0-0.5	X	X		X	Lead Based Paint/OCPs/PCBs
SS-30		Soil	0-0.5	X	X		X	Lead Based Paint/OCPs/PCBs
SS-31		Soil	0-0.5	X	X		X	Lead Based Paint/OCPs/PCBs
SS-32	Exterior Perimeter of Event Space	Soil	0-0.5	X	X		X	Lead Based Paint/OCPs/PCBs
SS-33		Soil	0-0.5	X	X		X	Lead Based Paint/OCPs
SS-34		Soil	0-0.5	X	X		X	Lead Based Paint/OCPs/PCBs
SS-35		Soil	0-0.5	X	X		X	Lead Based Paint/OCPs/PCBs
SS-36		Soil	0-0.5	X	X		X	Lead Based Paint/OCPs/PCBs
SS-37	Exterior Perimeter of Caretakers Residence	Soil	0-0.5	X	X		X	Lead Based Paint/OCPs/PCBs
SS-38		Soil	0-0.5	X	X		X	Lead Based Paint/OCPs/PCBs
SS-39		Soil	0-0.5	X	X		X	Lead Based Paint/OCPs/PCBs
SS-40		Soil	0-0.5	X	X		X	Lead Based Paint/OCPs/PCBs
SS-41		Soil	0-0.5	X	X		X	Lead Based Paint/OCPs/PCBs
SS-42		Soil	0-0.5	X	X		X	Lead Based Paint/OCPs/PCBs
SS-43	Exterior Perimeter of Barn	Soil	0-0.5	X	X			Lead Based Paint/OCPs
SS-44		Soil	0-0.5	X	X			Lead Based Paint/OCPs
SS-45		Soil	0-0.5	X	X			Lead Based Paint/OCPs
SS-46		Soil	0-0.5	X	X			Lead Based Paint/OCPs
SS-47	Pond Sediment	Sediment	0-0.5	X	X			metals/OCPs
SS-48		Sediment	0-0.5	X	X			metals/OCPs
SS-49		Sediment	0-0.5	X	X			metals/OCPs
SS-50	On-Site Transformers	Soil	0-0.5				X	PCBs
		Soil	1-1.5				X	PCBs
		Soil	2-3				X	PCBs
SS-51		Soil	0-0.5				X	PCBs

Continued.

Table 2, continued.

Boring/Sample ID	Sample Location	Media	Depth (feet)	CAM 17 Metals	OCPs	Arsenic	PCBs	Area of Potential Concern (AOPC)
SS-12A	Step-out Samples from SS-12	Soil	0-0.5			X		Arsenic
SS-12B		Soil	0-0.5			X		Arsenic
SS-12C		Soil	0-0.5			X		Arsenic
SS-12D		Soil	0-0.5			X		Arsenic
SS-4	Deeper Samples at Previously Collected Locations	Soil	2.5-3			X		Arsenic
SS-6		Soil	2.5-3			X		Arsenic
SS-8		Soil	2.5-3			X		Arsenic
SS-12		Soil	2.5-3			X		Arsenic
SS-16		Soil	2.5-3			X		Arsenic
SS-22		Soil	2.5-3			X		Arsenic
BG-1	Undeveloped Areas for Background Arsenic Concentrations	Soil	0.5-1			X		Arsenic
BG-2		Soil	0.5-1			X		Arsenic
BG-3		Soil	0.5-1			X		Arsenic
BG-4		Soil	0.5-1			X		Arsenic
			Total	25	25	14	3	

5.1.1 Deviations from PEA Work Plan

The following deviations from the PEA Work Plan were performed:

- Additional soil samples, SS-51 0-1/2 foot and 1 to 1 ½ foot, were collected September 7, 2017 beneath a pole-mounted transformer and analyzed for PCBs.
- Five surface soil samples were collected from selected locations on September 7, 2017 for performance of an arsenic bioavailability study. The arsenic bioavailability study is discussed in Section 6.

5.1.2 Hand Sampling Method

Surface soil samples were collected using hand tools by manually pressing a 2½- by 6-inch stainless steel sampling tube into native soil to a depth up to approximately ½ foot. If the soil is too dense to manually press the sampling tube into the soil, the tube were driven into the soil using a slide sampler. To obtain deeper soil samples, hand sampling equipment was used including a hand auger, shovel, and digging bar. A stainless-steel liner were driven approximately 6 inches into freshly exposed soil at the base of the boring using a slide hammer.

5.2 DISCUSSION OF RESULTS

5.2.1 Environmental Screening Levels

The soil and soil vapor sampling results collected during this PEA investigation were compared to residential DTSC-SLs. If a DTSC-SL has not been established, the soil results were

compared to RSLs. Arsenic was compared to the Site background of 17.5 mg/kg, as discussed in Section 6.

5.2.2 Summary of Soil Analytical Data

The soil analytical results of the PEA investigation are presented in Tables 3 and 4 in the tables Section of this report. Analytical data sheets and chain of custody documentation are presented in Appendix B. The analytical results are summarized below. Note that Tables 3 and 4 also includes analytical results for soil samples collected December 16, 2016.

5.2.3 Arsenic Background Sample Concentrations

- To determine Site-specific background concentrations for arsenic, four soil samples (BG-1 through BG-4) were collected from areas of the Site that do not appear to have been occupied by orchards or otherwise developed, based on review of historic aerial photographs. Arsenic was detected in 4 of 4 background samples at concentrations ranging from 4.29 to 5.20 mg/kg.

5.2.4 Former Orchard Areas

- Arsenic was detected in 34 of 34 samples analyzed ranging from 4.43 to 41.1 mg/kg, with two samples exceeding the Site background concentration of 17.5 mg/kg.
- Lead was detected in 34 of 34 samples analyzed ranging in concentration from 11.8 to 121 mg/kg. with one sample (SS-16, 0 – ½ foot) exceeding the residential DTSC-SL of 80 mg/kg.
- The remaining metal concentrations detected were below their respective screening levels or published background levels.
- Concentrations of DDD, DDE, DDT, Total DDT were detected at concentration below their respective residential screening levels.

5.2.5 Soil Adjacent to Structures

- Arsenic was detected in 22 of 22 soil samples analyzed ranging from 2.6 mg/kg to 13.2 mg/kg, with none of the samples exceeding Site background level.
- Lead was detected in 22 of 22 soil samples at concentrations ranging from 3.96 mg/kg to 260 mg/kg, with 4 samples exceeding the residential DTSC-SL of 80 mg/kg. All four of the samples exceeding 80 mg/kg were collected from the exterior perimeters of the Inn and Annex buildings.
- The remaining metal concentrations detected were below their respective screening levels or published background levels.
- Chlordane was detected in 9 of 22 samples collected ranging in concentrations from 0.304 mg/kg to 1.49 mg/kg. One sample, SS-26, collected in the upper ½ foot of soil, near the Inn and Annex, detected chlordane at a concentration exceeding the residential DTSC-SL of 0.44 mg/kg.

- Concentrations of DDD, DDE, DDT, Total DDT, alpha-chlordane, dieldrin, heptachlor, heptachlor epoxide were detected at concentration below their respective residential screening levels.

- No PCBs were detected in 18 of 18 soil samples collected from the perimeters of the Inn and Annex, Event Space or Caretaker's Residence.

5.2.6 Pond Sediment

- Arsenic was detected in 3 of 3 soil samples analyzed ranging from 1.08 mg/kg to 5.37 mg/kg.

- Lead was detected in 3 of 3 soil samples at concentrations ranging from 1.36 mg/kg to 11.2 mg/kg.

- The remaining metal concentrations detected also were below their respective screening levels or published background levels.

- Concentrations of DDE, DDT and Total DDT were detected at concentration below their respective residential screening levels. No other OCPs were detected.

- No PCBs were detected in the pond sediment samples.

5.2.7 Soil Beneath Transformers

- No PCBs were detected in soil samples collected beneath the two pole-mounted transformers.

5.3 QUALITY ASSURANCE AND QUALITY CONTROL

5.3.1 Field Duplicates

The field QA/QC procedures consisted of field duplicate collection and analysis. Field duplicate samples are two co-located samples of the same matrix, collected in the same approximate location and time, and similar overall homogeneity. Analysis of field duplicates provides a quantitative measure of the variability of the overall sampling and laboratory analysis process due to sample heterogeneity, sampling techniques, and/or analytical methods. The soil field duplicates were assigned a different sample ID but were packaged and transported in the same manner as the primary samples.

For this investigation, a total of two soil field duplicates were collected. The lake sediment field duplicate sample SS-101 was collected from sampling location SS-47 from approximately 0 to ½ feet. The near structure soil field duplicate sample SS-102 was collected from sampling location SS-28 from approximately 0 to ½ feet.

Detected concentration of metals and pesticides in the field duplicates were similar in magnitude. The duplicate SS-102 and SS-28 did not detect PBCs above laboratory reporting limits. The calculated relative percent difference (RPD) of the arsenic duplicates was 28.86% for SS-101 and 13.05% for SS-102. Low OCP concentrations were detected in the duplicate samples, but were below their respective residential screening levels.

5.3.2 Equipment Blanks

Equipment blank samples are collected prior to sampling activities by pouring analyte free water (deionized water) over or through decontaminated field sampling equipment. Analysis of equipment blanks evaluate the adequacy of the decontamination process and assess contamination from the total sampling, sample preparation process, when decontaminated sampling equipment is used to collect samples. For this investigation, one equipment blank (EqB-1) was collected from the hand sampling equipment used for soil sampling. The equipment blank was collected from sampling equipment prior to soil sampling activities at SS-11. Analytical results of the equipment blank did not OCPs or PCBs above their respective laboratory reporting limits. Low levels of the metals barium, chromium, molybdenum, nickel, and zinc were detected at concentration below their respective screening levels.

5.3.3 Sample Receipt and Handling

Sample handling and documentation was reviewed during the data quality assessment and included evaluating chain-of-custody documentation, technical sample integrity, preservation, and technical holding times. Samples were delivered to the analytical laboratory with proper chain-of-custody documentation. Sample cooler temperatures for samples submitted to Torrent were recorded at the time of sample receipt. After transfer of sample custody to the laboratories, the samples were placed in storage refrigerators, maintaining a temperature of 4° Celsius or below. The analytical testing was performed within the technical holding times for sample preparation and analyses.

5.3.4 Laboratory Quality Control

Upon completion of field work, samples were delivered with proper chain-of-custody documentation to Torrent Laboratory Inc. (Torrent), a state-certified analytical laboratory. The analytical laboratory QA/QC program included sample receipt verification, sample hold times, and the preparation and analysis of laboratory QC samples. To laboratory QC samples included method blanks, laboratory control samples, matrix spike and matrix spike duplicates, and surrogate recoveries.

5.3.5 Data Validation

To help confirm the validity of the analytical data, Level II data validation was performed for the analytical data received from Torrent Laboratory, Inc. Data validation is a sample-specific process implemented to determine the quality of a given data set beyond the method specification, determines any causes for non-conformance to the standard method, and verifies that the reported results are within acceptable ranges. The data evaluation was performed by third-party consultant Laboratory Data Consultants, Inc. (LDC) in Carlsbad, California. The data validation process did not reject the analytical results. The Level II Data Validation package is included in Appendix C.

SECTION 6: ARSENIC SITE-SPECIFIC BACKGROUND LEVEL AND BIOAVAILABILITY ASSESSMENT

6.1 ARSENIC BACKGROUND LEVEL

Natural background concentrations of arsenic are often well above the health-based DTSC screening level of 0.11 mg/kg; however, DTSC generally does not require cleanup of metals in soil to below background levels. An evaluation of background arsenic concentrations was performed by Integral Consulting, Inc. using Site arsenic data in accordance with DTSC guidance titled *Selecting Inorganic Constituents as Chemicals of Potential Concern at Risk Assessments at Hazardous Waste Sites and Permitted Facilities* (DTSC, 1997) and *Arsenic Strategies – Determination of Arsenic Remediation – Development of Arsenic Cleanup Goals* (DTSC 2009).

Integral Consulting, Inc. statistically evaluated the arsenic dataset; their results are presented in Appendix D. Summary statistics for the arsenic dataset are summarized in Table 5 and in Appendix D. The 95th and 99th percentiles of the background population were calculated as 16.5 mg/kg and 17.5 mg/kg, respectively. Because the background dataset is large (n=65), the data are considered robust, and the distribution is well defined, the 99th percentile of 17.5 mg/kg is considered representative of the Site-specific background.

6.2 ARSENIC BIOAVAILABILITY ASSESSMENT

Most human health risk assessments assume that arsenic is highly bioavailable (absorbable by the body), likely leading to an overestimate of risk. When arsenic is present in soil, it associates with other minerals. These associations reduce the solubility of arsenic, thereby reducing the bioavailability of arsenic and resulting toxicity. To address this issue, DTSC's Human and Ecological Risk Office (HERO) developed a recommended methodology (HERO Note 6; August 22, 2016) to evaluate a site-specific relative bioavailability (RBA) (California Arsenic Bioaccessibility [CAB] method). The RBA is a ratio that compares the bioavailability of arsenic in soil to that of arsenic in water. A site-specific RBA can replace the default assumption used in risk assessment equations resulting in a more refined estimate of risk. The site-specific RBA also can be used to develop a health-risk based cleanup goal for arsenic.

Cornerstone submitted an Arsenic Bioavailability Work Plan to DTSC on August 28, 2017. DTSC provided comments to the Work Plan on September 5, 2017; comments are provided in Appendix A and were incorporated into the work performed.

On September 7, soil samples were collected from five locations that were previously sampled (BG-1, SS-3, SS-12D, SS-23 and SS-43), from the surface to a depth of approximately ½ foot. The soil samples were submitted to Prima Environmental (El Dorado Hills) to be analyzed using the Standard Operating Procedure (SOP) for the CAB method.

The results showed a low RBA in the majority of the samples (4.9% to 7.9%) based on non-detects in the extraction fluid. Only one sample, SS-12D, showed a higher RBA (71 percent); this sample location had the highest total arsenic concentration detected (41.1 mg/kg).

As shown on Table 3, only samples from the vicinity of location SS-12 (B, C, and D), which are in the former orchard area, have arsenic concentrations detected above the Site-specific background level. Based on the CAB assessment results, samples with arsenic above

background levels at the Site appear to be more bioavailable, which likely reflects anthropogenic sources. Based on the low bioavailability of lower concentration soils and the apparent limited extent of soils with concentrations above background, removal of soil from the vicinity of sample SS-12 should be health-protective for the proposed land use.

SECTION 7: HUMAN HEALTH RISK SCREENING EVALUATION

As part of the PEA process, DTSC typically requires that a human health screening level evaluation be performed in general accordance with the methods outlined in DTSC's PEA Guidance Manual (DTSC, 2015). The screening human health risk evaluation outlined in the PEA Guidance Manual is intended to be a health-conservative evaluation of potential risks posed by chemicals at a site. For example, this evaluation assumes a site will be used for residential purposes regardless of actual or intended land use. Non-cancer hazard quotients (HQs) and incremental lifetime cancer risks (ILCRs) are estimated using an established human health risk-based residential screening concentration and the maximum detected concentration for each chemical as follows:

$$HQ = \text{Maximum concentration}/\text{Screening concentration}$$

$$ILCR = (\text{Maximum concentration}/\text{Screening concentration}) \times 10^{-6}$$

Where:

The screening concentrations are based on a target HQ of one and a target ILCR of one-in-a-million (1×10^{-6}).

The chemical-specific HQs and ILCRs are each summed, regardless of the location of the maximum detected concentrations, to estimate the total non-cancer hazard index (HI) and total ILCR, respectively. If the total HI exceeds a value of one, then HIs are re-calculated by summing HQs for chemicals affecting the same target organ (e.g., respiratory effects).

The screening levels used in this evaluation are residential RSLs unless a DTSC-SL is available. The soil screening levels assume exposure via incidental soil ingestion, dermal contact with soil, and inhalation of vapors or resuspended particulates in ambient air. Screening levels are available for the majority of the compounds detected in soil samples collected at the Site. Cancer risks and non-cancer indices for arsenic, lead and detected OCPs are summarized in Table 6 below. Other CAM 17 metals were detected below residential screening levels and published background levels and, therefore, were not included in Table 6.

Table 6. Cancer Risks and Non-Cancer Indices

Parameter	Cancer Screening Criteria [1]	Non-Cancer Screening Criteria [1]	Maximum Detected Concentration	Cancer Risk	Non-Cancer Hazard Index
Arsenic	0.11 mg/kg	0.4 mg/kg	41.1 mg/kg (max detect)	3.7×10^{-4}	102.5
Arsenic	0.11 mg/kg	0.4 mg/kg	17.5 mg/kg (background)	1.6×10^{-4}	43.8
Lead	80 mg/kg	80 mg/kg	263 mg/kg	(a)	(a)
Chlordane	0.43 mg/kg	35 mg/kg	1.49 mg/kg	3.5×10^{-6}	0.043
Dieldrin	0.033 mg/kg	3.9 mg/kg	0.00149 mg/kg	4.5×10^{-8}	3.8×10^{-4}
Heptachlor	0.13 mg/kg	39 mg/kg	0.00786 mg/kg	6×10^{-8}	2×10^{-4}
Heptachlor Epoxide	0.07mg/kg	1 mg/kg	0.00621 mg/kg	8.9×10^{-8}	0.00621
4,4-DDE	2.0 mg/kg	NE	0.522 mg/kg	2.6×10^{-7}	NC
4,4-DDD	2.3 mg/kg	NE	0.0186 mg/kg	8.1×10^{-9}	NC
4,4-DDT	1.9 mg/kg	37 mg/kg	0.267 mg/kg	1.4×10^{-7}	0.0072
Total Cancer Risk (including maximum arsenic detected)				3.7×10^{-4}	--
Total Cancer Risk (including estimated background arsenic [b])				1.6×10^{-4}	--
Total Cancer Risk (excluding arsenic)				3.9×10^{-6}	--
Total Hazard Index (including maximum arsenic detected)				--	102.6
Total Hazard Index (including estimated background arsenic [b])				--	43.9
Total Hazard Index (excluding arsenic)				--	0.05

1 – Screening criteria based on RSL or DTSC-SL.
(a) A cancer risk and hazard index are not estimated for lead. Instead, the maximum concentration detected is compared to the residential CHHSL of 80 mg/kg.
(b) Background arsenic estimated at 17.5 mg/kg (99 percentile)
NC – Not Calculated
NE – Not Established

SECTION 8: COMMUNITY PROFILE AND OUTREACH

8.1 COMMUNITY PROFILE

The site is located at 3141 Taylor Road. According to the Placer County Community Development Resource Agency, the area surrounding the Site is mostly zoned for single-family residential purposes and rural residential, and open space. The 2010 United States Census documents a population of 12,447 031 within the Site's zip code (95650), with a median age of 44.9 years. Within this zip code, 16,100 households are present, with approximately 83 percent owner-occupied and 17 percent rental-occupied.

8.2 COMMUNITY OUTREACH

Once a PEA report has been approved by the DTSC and in accordance with Education Code, Section 17213.1, the United Auburn Indian Community will prepare a public notice and make the PEA report available for public review and comment.

SECTION 9: CONCLUSIONS

During this PEA investigation, soil sampling was performed to address the areas requiring further evaluation identified in the DTSC-approved PEA Work Plan. Soil samples were collected near existing and former buildings to evaluate potential impacts from possible pest

control spraying near building foundations, and potential impacts from building materials such as lead-based paint and/or PCB caulking compounds. Soil samples were also collected from the former orchard areas to evaluate potential impacts from pesticide application, and from beneath transformers to evaluate the presence of PCBs.

Laboratory analyses of the soil samples collected from the perimeter of the Inn and Annex buildings detected lead and the OCP compound chlordane at concentrations that exceed residential environmental screening levels. The occurrence of these contaminants is likely related to lead-based paint on former building materials and pest control spraying. Soil removal from around the perimeter of the Inn and Annex buildings is recommended.

Laboratory analyses of soil samples collected from the orchard areas detected lead exceeding the residential RSL in sample SS-16 (121 mg/kg). The Site-wide 95 percent UCL for lead is 58 mg/kg, and the lead UCL will be lowered once soils around the Inn and Annex are removed. The lead detected at SS-16 does not appear significantly elevated and leaving this soil in-place appears appropriate.

As shown in Table 2 and on Figure 3, only samples from the vicinity of location SS-12 (B, C and D), within the former orchard area, had arsenic detected exceeding the Site-specific background level. It is recommended that these locations be considered for a removal action. Based on the CAB assessment results, samples with arsenic above background are more bioavailable, which likely reflects anthropogenic sources. Based on the low bioavailability of lower concentrations of arsenic in soil and limited extent of soils with concentrations above background removal of soil from the vicinity of SS-12 should be health-protective for the proposed land use. In addition, the Site-wide 95 UCL for arsenic is currently 10.5 mg/kg and will be considerably lower and well within background when soils in the vicinity of SS-12 are removed.

SECTION 10: LIMITATIONS

This PEA Work Plan, an instrument of professional service, was prepared for the sole use of United Auburn Indian Community, RSC Engineering and the Department of Toxic Substances Control and may not be reproduced or distributed without written authorization from Cornerstone. Cornerstone makes no warranty, expressed or implied, except that our services have been performed in accordance with the environmental principles generally accepted at this time and location.

SECTION 11: REFERENCES

Cornerstone Earth Group. December 22, 2016. Limited Phase II Soil Quality Evaluation., 3141 Taylor Road, Loomis, California.

Cornerstone Earth Group. June 28, 2017. Final Preliminary Endangerment Assessment Work Plan, Planned Tribal School, 3141 Taylor Road, Placer County, California.

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DTSC, 2017. *Arsenic Strategies. Development of Arsenic Cleanup Goals for Proposed and Existing School Sites. March 2007.*

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PSI, November 23, 2015. Report of Phase I Environmental Site Assessment, The Gathering Place, 3141 Taylor Road, Loomis, California 95650.

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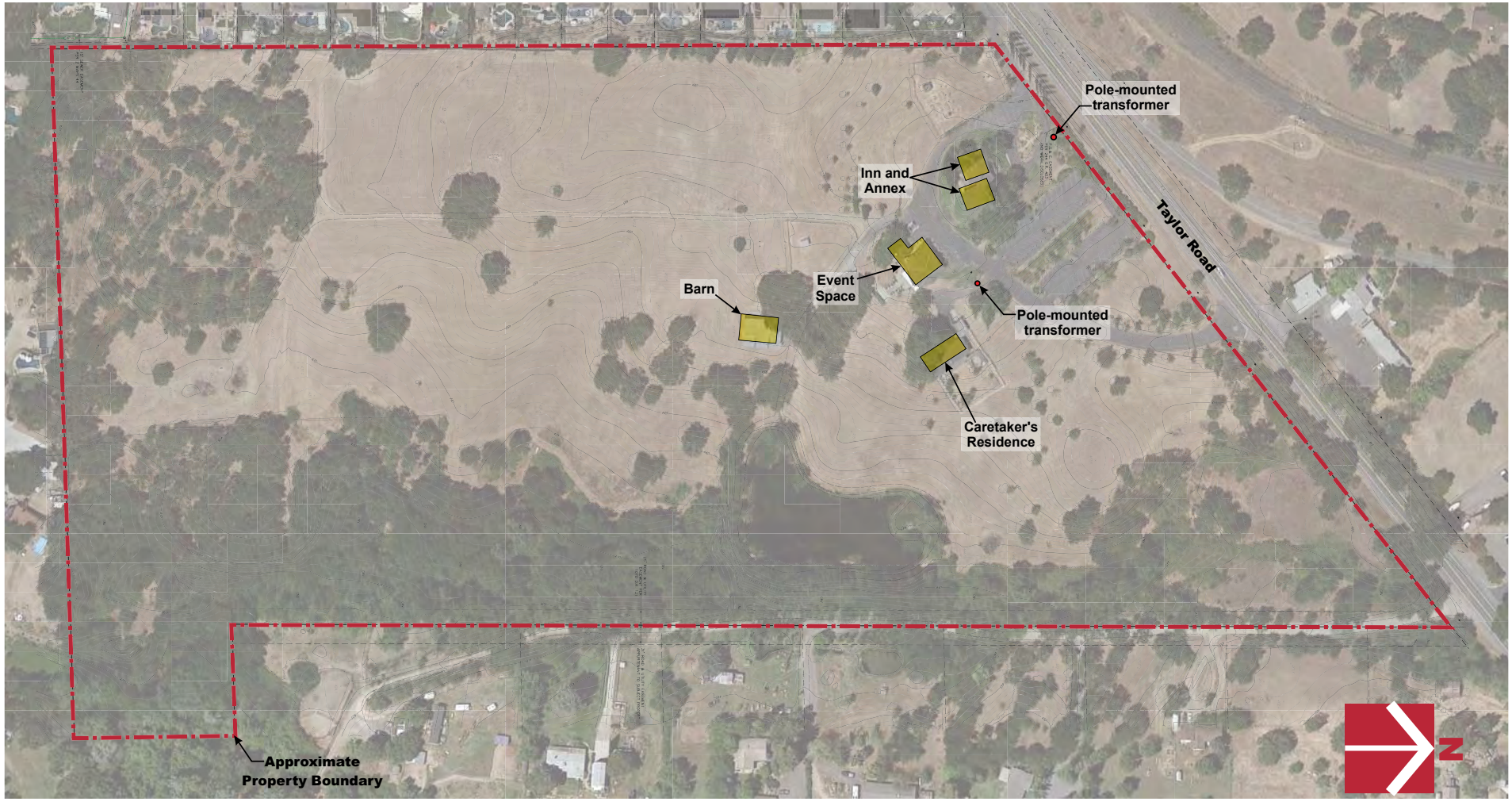
FIGURES

CORNERSTONE EARTH GROUP

Vicinity Map

United Auburn Indian Community School
3141 Taylor Road
Placer County, CA

Project Number	411-16-3
Figure Number	Figure 1
Date	June 2017
Drawn By	RRN



0 160 320

APPROXIMATE SCALE (FEET)

CORNERSTONE EARTH GROUP

Site Plan

United Auburn Indian Community School
3141 Taylor Road
Placer County, CA

Project Number	411-16-3
Figure Number	Figure 2
Date	June 2017
Drawn By	RRN

Base by Google Earth, dated 7/10/2016
Overlay by RSC Engineering, Topographic Survey, dated October 2016

0 160 320

APPROXIMATE SCALE (FEET)

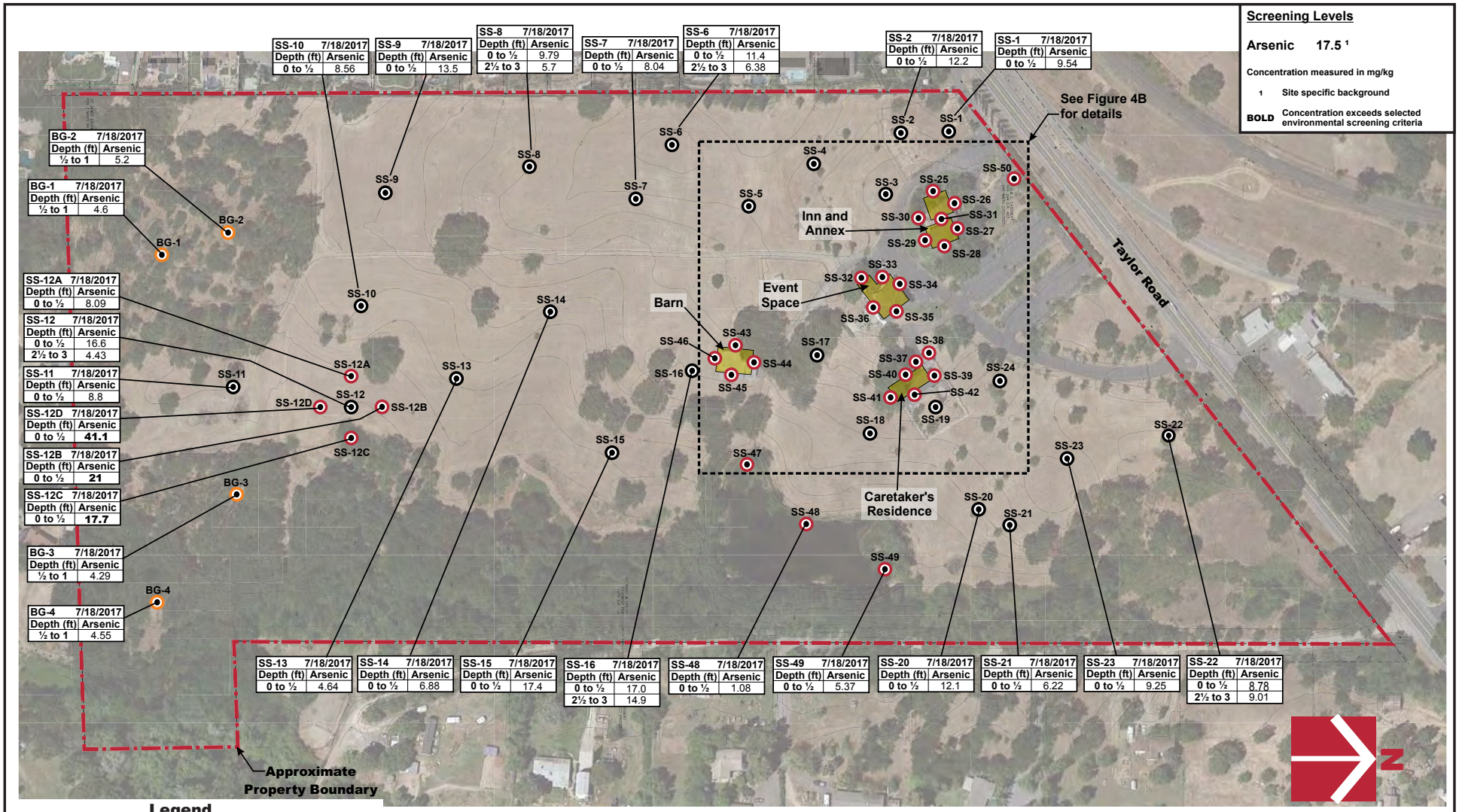
Base by Google Earth, dated 7/10/2016
Overlay by Lake Flato, Site Plan - SP1 & SP2, dated 3/31/2017

CORNERSTONE EARTH GROUP

Development Plan

United Auburn Indian Community School
3141 Taylor Road
Placer County, CA

Project Number	411-16-3
Figure Number	Figure 3
Date	June 2017
Drawn By	RRN



Screening Levels

Arsenic 17.5 [1]

Concentration measured in mg/kg

1 Site specific background

BOLD Concentration exceeds selected environmental screening criteria

Legend

- Approximate location of background sample (BG)
- Approximate location of soil sample (SS)
- Approximate location of soil sample (SS) (Cornerstone, 2016)

Base by Google Earth, dated 7/10/2016
Overlay by RSC Engineering, Topographic Survey, dated October 2016

CORNERSTONE EARTH GROUP

Soil Sample Locations and Arsenic Results

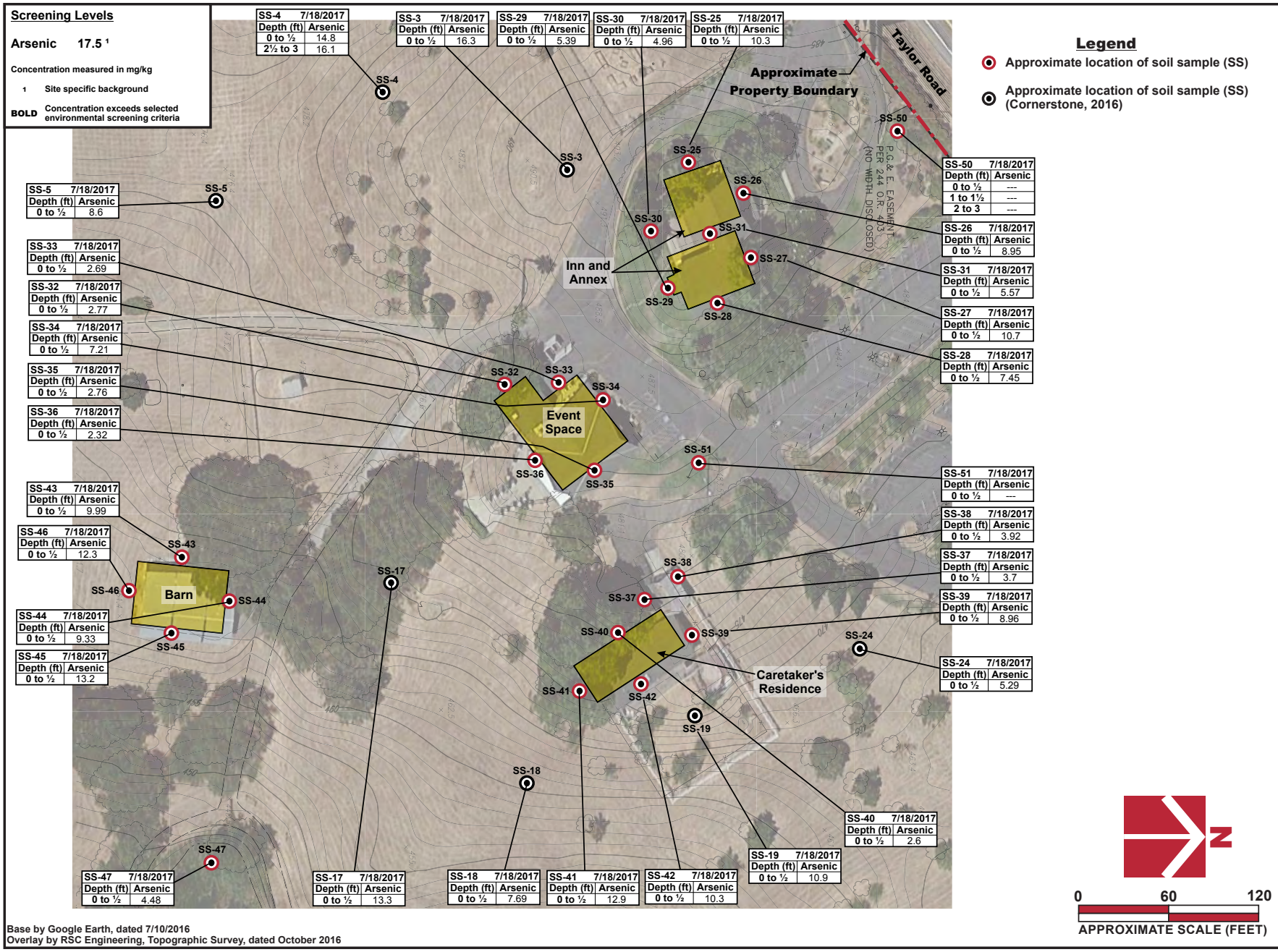
United Auburn Indian Community School
3141 Taylor Road
Placer County, CA

Project Number: 411-16-3

Figure Number: Figure 4A

Date: August 2017

Drawn By: RRN



Project Number 411-16-3

Figure Number Figure 4B

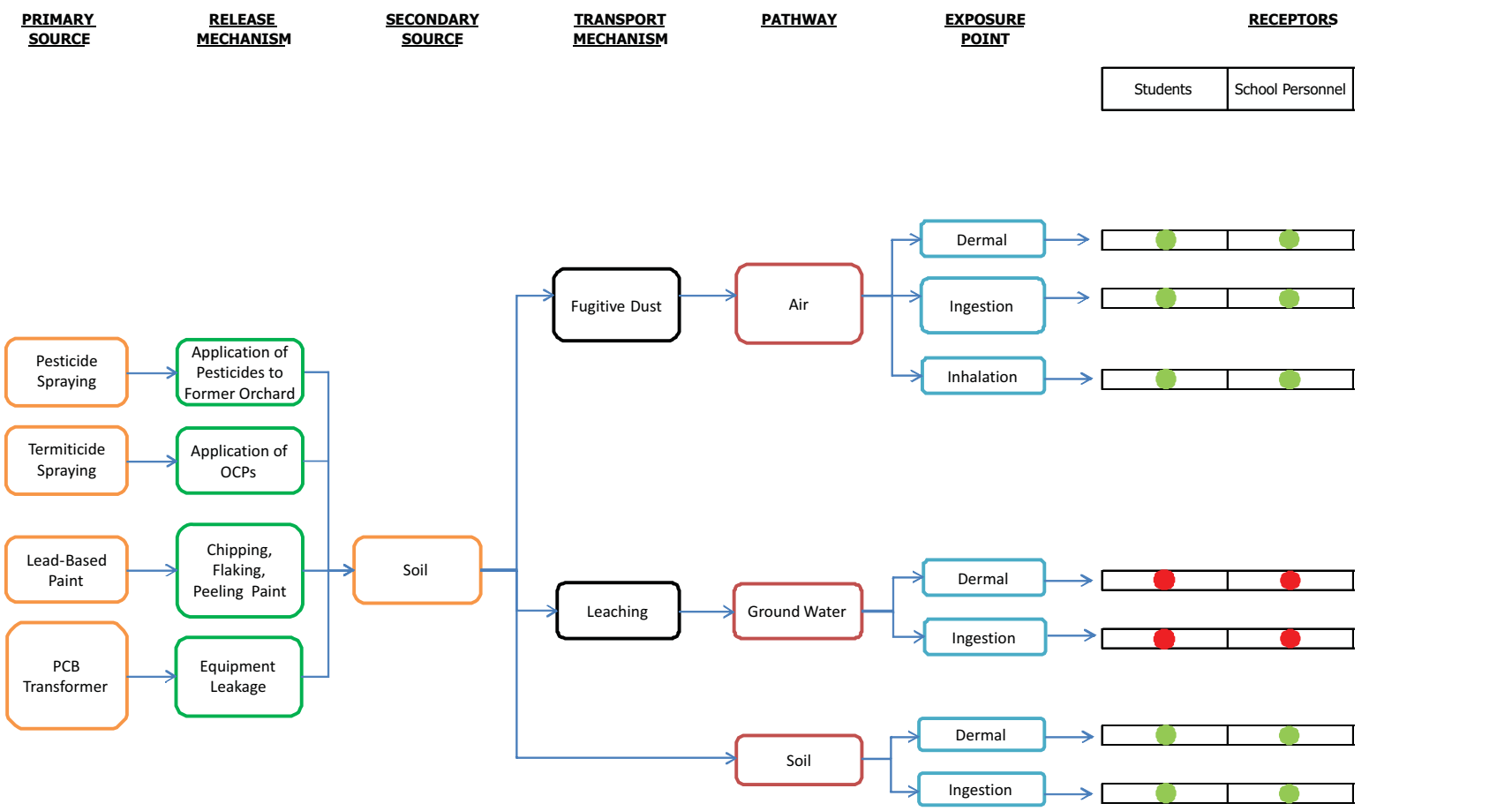
Date August 2017

Drawn By RRN

Soil Sample Locations and Arsenic Results

United Auburn Indian Community School
3141 Taylor Road
Placer County, CA

CORNERSTONE EARTH GROUP



Conceptual Site Model

United Auburn Indian Community School
3141 Taylor Road
Placer County, CA

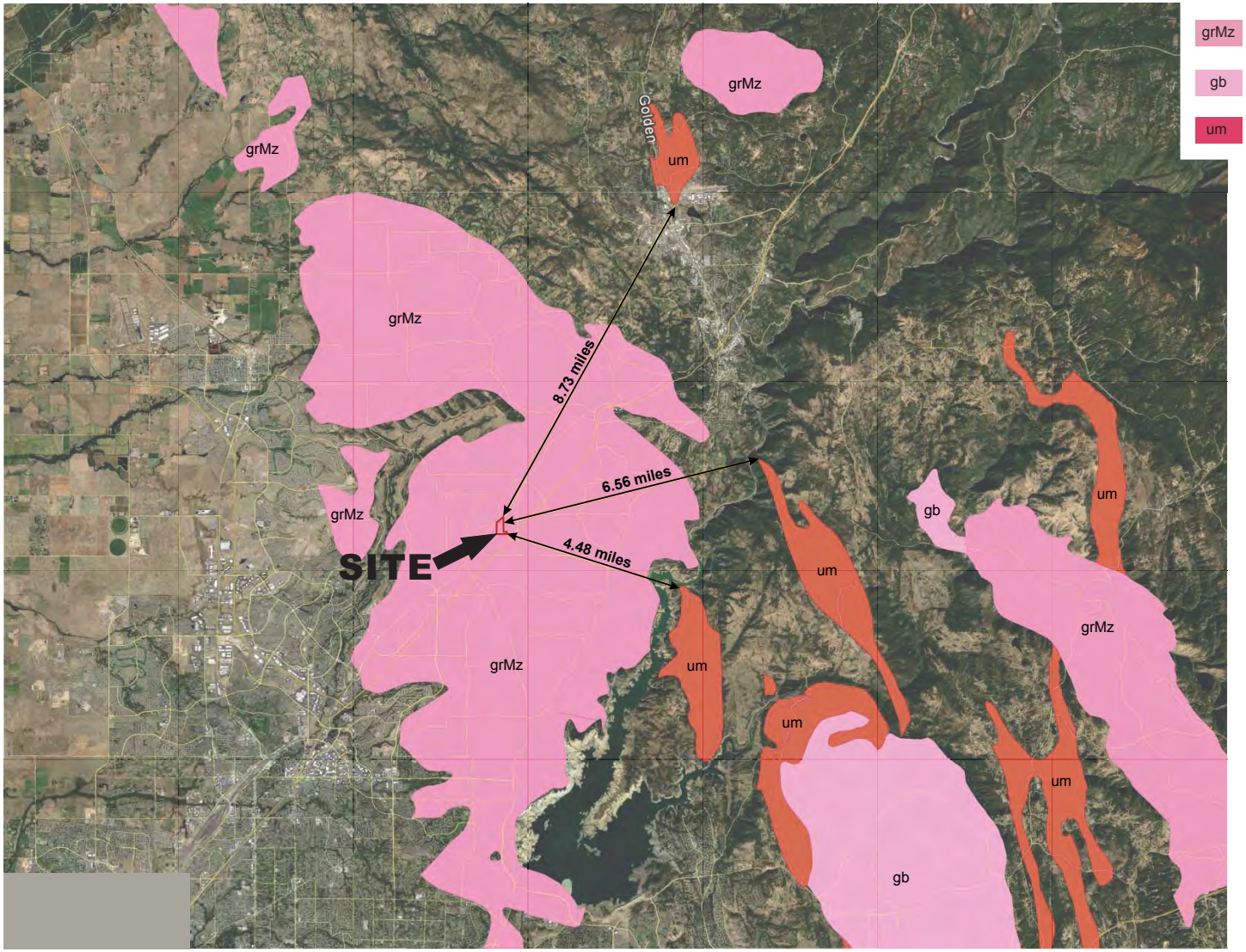
Project Number 411-16-3

Figure Number Figure 5

Date June 2017

Drawn By RRN

CORNERSTONE EARTH GROUP



Geologic Units

grMz	Mesozoic granite rocks (Permian to Tertiary; most Mesozoic)
gb	Ultramafic rocks, chiefly Mesozoic (Late Proterozoic to Early Jurassic)
um	Mesozoic gabbroic rocks (Triassic to Cretaceous)

N

0 14,000 28,000

APPROXIMATE SCALE (FEET)

Base by Google Earth, dated 10/25/2016

Project Number 411-16-3

Figure Number Figure 6

Date June 2017

Drawn By RRN

Ultramafic Map

United Auburn Indian Community School
3141 Taylor Road
Placer County, CA

CORNERSTONE EARTH GROUP

DATA SUMMARY TABLES

Table 3. Analytical Results of Selected Soil Samples - Metals
(Concentrations in mg/kg)

Sample ID	Date	Depth (feet)	Sample Location	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Molybdenum	Nickel	Selenium	Silver	Vanadium	Zinc
BG-1 (0.5-1)	7/18/2017	½-1	Undeveloped Areas Background Arsenic Concentrations	---	4.6	---	---	---	---	---	---	---	---	---	---	---	---	---
BG-2 (0.5-1)	7/18/2017	½-1		---	5.2	---	---	---	---	---	---	---	---	---	---	---	---	---
BG-3 (0.5-1)	7/18/2017	½-1		---	4.29	---	---	---	---	---	---	---	---	---	---	---	---	---
BG-4 (0.5-1)	7/18/2017	½-1		---	4.55	---	---	---	---	---	---	---	---	---	---	---	---	---
SS-1 (0-0.5)	7/18/2017	0-½	Former Orchard Areas	0.165[1]	9.54	59.7	<0.16	0.102[1]	28.3	6.78	23.1	17.6	0.252[1]	13.6	<0.035	<0.14	30.5	39.9
SS-2 (0-0.5)	7/18/2017	0-½		0.322[1]	12.2	81.9	0.173[1]	0.156[1]	45.9	9.2	32.1	32.8	0.706[1]	19	<0.035	<0.13	46.4	68.4
SS-3 (0-0.5)	7/18/2017	0-½		0.238[1]	16.3	76.9	<0.25	<0.13	42.3	11	35.4	26.6	0.462[1]	19.9	<0.054	<0.15	50.4	53.4
SS-4 (0-0.5)	7/18/2017	0-½		0.22[1]	14.8	72.3	0.164[1]	0.105[1]	32.6	8.47	31.9	31	0.373[1]	14.4	<0.035	0.406[1]	36.4	34.7
SS-4 (2.5-3)	7/18/2017	2½-3		---	16.1	---	---	---	---	---	---	---	---	---	---	---	---	---
SS-5 (0-0.5)	7/18/2017	0-½		0.154[1]	8.6	71.3	<0.18	<0.084	22.3	5.69	21.6	32.1	0.146[1]	10.4	<0.035	<0.099	24.3[1]	25.2
SS-6 (0-0.5)	7/18/2017	0-½		0.233[1]	11.4	79.9	<0.20	0.147[1]	34.3	8.9	29.7	31.2	0.298[1]	18.4	<0.043	<0.12	40.8	42.2
SS-6 (2.5-3)	7/18/2017	2½-3		---	6.38	---	---	---	---	---	---	---	---	---	---	---	---	---
SS-7 (0-0.5)	7/18/2017	0-½		0.197[1]	8.04	91.3	<0.19	0.109[1]	30.7	7.79	31.1	28	0.25[1]	14.5	<0.041	<0.12	34.3	34
SS-8 (0-0.5)	7/18/2017	0-½		0.186[1]	9.79	90.7	<0.17	0.0879[1]	26.5	7.16	31.1	42.4	0.182[1]	12.7	<0.036	<0.10	27.9	29
SS-8 (2.5-3)	7/18/2017	2½-3		---	5.7	---	---	---	---	---	---	---	---	---	---	---	---	---
SS-9 (0-0.5)	7/18/2017	0-½		0.167[1]	13.5	115	<0.22	0.124[1]	34.1	8.98	44.2	56	0.265[1]	17	<0.047	<0.13	37.9	42
SS-10 (0-0.5)	7/18/2017	0-½		0.163[1]	8.56	114	0.189[1]	0.0985[1]	40.5	10.8	38.8	24.2	0.267[1]	19.4	<0.035	<0.099	48.5	44.1
SS-11 (0-0.5)	7/18/2017	0-½		0.285[1]	8.8	108	0.164[1]	0.166[1]	24.6	7.14	18.5	21.1	0.491[1]	14.6	<0.035	<0.099	37	55.7
SS-12 (0-0.5)	7/18/2017	0-½		0.16[1]	16.6	53.5	<0.19	<0.10	20.5	5.64	12.7	53.1	<0.16	9.05	<0.042	<0.12	21.5[1]	21.5
SS-12 (2.5-3)	7/18/2017	2½-3		---	4.43	---	---	---	---	---	---	---	---	---	---	---	---	---
SS-12A (0-0.5)	7/18/2017	0-½		---	8.09	---	---	---	---	---	---	---	---	---	---	---	---	---
SS-12B (0-0.5)	7/18/2017	0-½		---	21	---	---	---	---	---	---	---	---	---	---	---	---	---
SS-12C (0-0.5)	7/18/2017	0-½		---	17.7	---	---	---	---	---	---	---	---	---	---	---	---	---
SS-12D (0-0.5)	7/18/2017	0-½		---	41.1	---	---	---	---	---	---	---	---	---	---	---	---	---
SS-13 (0-0.5)	7/18/2017	0-½		<0.12	4.64	70	<0.16	<0.084	20.9	5.78	18.8	13.1	<0.13	10	<0.035	<0.098	25	23.1
SS-14 (0-0.5)	7/18/2017	0-½		0.188[1]	6.88	86.1	<0.16	0.115[1]	28.6	6.99	28.3	30.2	0.212[1]	12.9	<0.035	<0.098	29.1	33.3
SS-15 (0-0.5)	7/18/2017	0-½		0.462[1]	17.4	128	0.326[1]	0.183[1]	50.8	12.7	28.4	42.9	0.668[1]	24.1	<0.050	<0.14	61.7	69.7
SS-16 (0-0.5)	7/18/2017	0-½		0.468[1]	17	43.3	0.193[1]	0.15[1]	92.1	19.5	60.2	121	0.416[1]	55.8	<0.037	<0.11	144	99.2
SS-16 (2.5-3)	7/18/2017	2½-3		---	14.9	---	---	---	---	---	---	---	---	---	---	---	---	---
SS-17 (0-0.5)	7/18/2017	0-½		0.35[1]	13.3	103	0.188[1]	0.17[1]	50.1	10	34.9	35.1	0.77[1]	20.7	<0.038	<0.11	50.5	76.8
SS-18 (0-0.5)	7/18/2017	0-½		0.182[1]	7.69	54.9	0.161	<0.084	35.3	8.46	19.5	12.2	0.314[1]	13	<0.035	<0.099	39.9	43.3
SS-19 (0-0.5)	7/18/2017	0-½		0.295[1]	10.9	78.2	0.24[1]	0.0975[1]	34.7	8	20.5	15.4	0.418[1]	18.2	<0.035	<0.099	43.2	89.7
SS-20 (0-0.5)	7/18/2017	0-½		0.257[1]	12.1	78.4	<0.18	0.124J	34.5	7.94	38.4	58	0.223[1]	13.5	<0.039	<0.11	32.1	45.5
SS-21 (0-0.5)	7/18/2017	0-½		0.131[1]	6.22	40.1	<0.16	<0.084	26.9	6.41	26.2	19.9	<0.13	10.5	<0.035	<0.099	26.1	25.2
SS-22 (0-0.5)	7/18/2017	0-½		0.166[1]	8.78	51.7	<0.16	0.086	26.1	8.08	15.7	28.6	0.168[1]	9.99	<0.036	<0.10	25.3[1]	30.6
SS-22 (2.5-3)	7/18/2017	2½-3		---	9.01	---	---	---	---	---	---	---	---	---	---	---	---	---
SS-23 (0-0.5)	7/18/2017	0-½		0.163[1]	9.25	61.1	<0.19	<0.099	41.8	10.6	33.5	13.8	0.264[1]	16.2	<0.041	<0.12	41.5	41.6
SS-24 (0-0.5)	7/18/2017	0-½		0.143[1]	5.29	50.1	<0.16	<0.084	32.6	6.36	26.7	11.8	0.132[1]	12	<0.035	<0.098	29.2	31.7
SS-25 (0-0.5)	7/18/2017	0-½	Exterior Perimeter of Inn and Annex Buildings	0.876[1]	10.3	76.9	<0.19	0.26[1]	34.2	7.24	55.5	263	0.228[1]	13.5	<0.041	<0.12	30.7	143
SS-26 (0-0.5)	7/18/2017	0-½		0.363[1]	8.95	93.5	<0.18	0.331[1]	40	7.23	61.7	260	0.292[1]	17.1	<0.040	<0.11	33.2	208
SS-27 (0-0.5)	7/18/2017	0-½		0.489[1]	10.7	95.9	<0.27	0.557[1]	43.7	9.2	31.4	87.7	0.341[1]	20.5	<0.058	<0.17	38.1[1]	132
SS-28 (0-0.5)	7/18/2017	0-½		<0.20	7.45	64.1	<0.27	<0.14	24.5	6.19	22.1	46.2	1.99	14	<0.058	<0.16	30.4[1]	229
SS-29 (0-0.5)	7/18/2017	0-½		0.3[1]	5.39	77	<0.28	<0.15	34.5	8.02	18.5	29.1	<0.23	31.7	<0.061	<0.17	28.8[1]	83
SS-30 (0-0.5)	7/18/2017	0-½		0.31[1]	4.96	45.1	<0.16	0.11[1]	16.6	4.14	18.1	22.8	<0.13	8.24	<0.036	<0.10	17.4[1]	218
SS-31 (0-0.5)	7/18/2017	0-½		0.198[1]	5.57	65.8	<0.24	0.235[1]	25	6.5	25.1	263	<0.20	15.3	<0.052	<0.15	22.3[1]	234
SS-32 (0-0.5)	7/18/2017	0-½	Exterior Perimeter of Event Space	<0.15	2.77	42.9	<0.19	<0.10	22.8	7.51	19.3	3.16	<0.16	13.4	<0.042	<0.12	25.8[1]	29.7
SS-33 (0-0.5)	7/18/2017	0-½		<0.14	2.69	31.9	<0.18	<0.096	20.8	4.98	17.1	3.96	<0.15	11.2	<0.040	<0.11	21.9[1]	37.4
SS-34 (0-0.5)	7/18/2017	0-½		<0.13	7.21	38.5	<0.17	<0.089	15.2	3.56	10.7	32.8	<0.14	7.56	<0.037	<0.10	14.5[1]	21.7
SS-35 (0-0.5)	7/18/2017	0-½		<0.14	2.76	25.1	<0.19	<0.10	15.4	3.89	11.7	8.39	<0.16	7.72	<0.041	<0.12	15.5[1]	33.8
SS-36 (0-0.5)	7/18/2017	0-½		0.27[1]	2.32	40	<0.22	<0.12	13.6	3.23	9.68	6.91	<0.18	6.65[1]	<0.048	<0.14	12.6[1]	32.9
SS-37 (0-0.5)	7/18/2017	0-½	Exterior Perimeter of Caretakers Residence	0.237[1]	3.7	35.4	<0.23	0.472[1]	16.5	4.31	101	12.9	<0.19	8.58	<0.050	<0.14	22.4[1]	160
SS-38 (0-0.5)	7/18/2017	0-½		<0.13	3.92	35.4	<0.17	0.622[1]	20.5	4.94	21.3	22.7	<0.14	9.29	<0.037	<0.11	22.0[1]	189
SS-39 (0-0.5)	7/18/2017	0-½		0.405[1]	8.96	42.6	0.217[1]	0.0941[1]	14.4	3.64	13.3	10.4	0.254[1]	10.3	0.131[1]	<0.11	20.7[1]	37
SS-40 (0-0.5)	7/18/2017	0-½		<0.13	2.6	28.1	<0.17	<0.091	15.3	3.56	12.8	9.29	<0.14	7.9	<0.038	<0.11	15.3[1]	49
SS-41 (0-0.5)	7/18/2017	0-½		0.652[1]	12.9	99.5	0.231[1]	0.239[1]	51.4	10.5	39.7	49.2	0.434[1]	21.8	<0.041	0.12[1]	51.3	122
SS-42 (0-0.5)	7/18/2017	0-½		1.02[1]	10.3	68.7	<0.22	<0.12	43.4	8.06	38	33.2	0.374[1]	18.9	<0.048	<0.14	42.1	63.6
SS-43 (0-0.5)	7/18/2017	0-½	Exterior Perimeter of Barn	0.192[1]	9.99	65.4	0.196[1]	0.14[1]	46.9	8.41	23.3	8.56	0.339[1]	21.4	<0.042	<0.12	51.5	276
SS-44 (0-0.5)	7/18/2017	0-½		0.445[1]	9.33	63.9	<0.27	0.347[1]	72.3	7.48	31.6	38.1	2.55	35.4	<0.059	<0.17	35.5[1]	136
SS-45 (0-0.5)	7/18/2017	0-½		0.224[1]	13.2	58.8	0.195[1]	0.154[1]	39.9	12.4	20.3	19.1	0.34[1]	16.7	<0.037	<0.11	49.8	206
SS-46 (0-0.5)	7/18/2017	0-½		0.379[1]	12.3	71.1	0.198[1]	0.125[1]	46.4	8.76	24.5	14.9	0.456[1]	18.8	<0.035	<0.099	53.8	75.4
SS-47 (0-0.5)	7/18/2017	0-½	Pond Sediment	<0.31	4.48	24.8	<0.41	<0.21	19.7	6.16	17.8	11.2	0.429[1]	10.1[1]	<0.088	<0.25	14.5J	23.1
SS-48 (0-0.5)	7/18/2017	0-½		<0.16	1.08[1]	7.64	<0.22	<0.11	6.99	0.793[1]	3.5	1.36	<0.18	2.72[1]	<0.047	<0.13	3.69[1]	4.9
SS-49 (0-0.5)	7/18/2017	0-½		<0.18	5.37	37.6	<0.24	<0.13	37.4	7.49	27.2	3.45	<0.20	16.5	<0.052	<0.15	37.8	35.2
SS-50 (0-0.5)	7/18/2017	0-½	On-Site Transformers	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
SS-50 (1-1.5)	7/18/2017	1-1½		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
SS-50 (2-3)	7/18/2017	2-3		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
SS-51 (0-0.5)	9/7/2017	0-½		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
SS-51 (1 - 1.5)	9/7/2017	1-1½		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
SS-101 (0-0.5)	7/18/2017	0-½	SS-47 Duplicate	<0.12	3.35	24.8	<0.16	<0.084	19.1	4.19	13.3	5.33	<0.13	9.8	<0.035	<0.14	21.3[1]	20.3
SS-102 (0-0.5)	7/18/2017	0-½	SS-28 Duplicate	0.356[1]	8.49	87.5	0.172[1]	0.165[1]	23.7	6.07	22.9	38.9	0.846[1]	13.8	<0.035	0.25[1]	40.7	112
Screening Level				31	17.5	15,000	15	5.2	NE	23	3,100	80	390	490	390	390	390	23,000
Basis				RSL[1]	BG[2]	RSL[1]	DTSC-SL[3]	DTSC-SL[3]	NE	RSL[1]	RSL[1]	DTSC-SL[3]	RSL[1]	DTSC-SL[3]	RSL[1]	RSL[1]	RSL[1]	RSL[1]
Bradford, 1996 [a]	Background Range			0.15 to 1.95	0.6 to 11	133 to 1,400	0.25 to 2.7	0.05 to 1.7	23 to 1,579	2.7 to 46.9	9.1 to 96.4	12.4 to 97.1	0.1 to 9.6	9 to 509	0.015 to 0.43	0.1 to 8.3	39 to 288	88 to 236
	Upper Quartile			0.73	4.7	625	1.53	0.44	115	18.3	36.6	26.7	1.4	56	0.05	0.53	134	170
LBNL, 2009 [b]	99th Percentile			<6	28	410	1	5.6	120	25	63	43	4.8	272	4.9	2.9	90	140
	95% Upper Tolerance Limit (UTL)			5.5	19.1	323.6	1	2.7	99.6	22.2	69.4	16.1	7.4	119.8	5.6	1.8	74.3	106.1

1 Regional Screening Level (RSL), USEPA Region 9 - June 2017.
2 Site-Specific background (see Section 6.1)
3 Recommended Screening Level (SL), HERO Note 3 - June 2017
a Bradford, et. al. March 1996. Background Concentrations of Trace and Major Elements in California Soils.
b LBNL, 2009. Analysis of Background Distributions of Metals in the Soil at Lawrence Berkeley National Laboratory.
< Not detected at or above laboratory reporting limit
NE Not Established
--- Not Analyzed
BOLD Concentration exceeds selected environmental screening criteria

Table 4. Analytical Results of Selected Soil Samples - OCPs and PCBs
(Concentrations in mg/kg)

Sample ID	Date	Depth (feet)	Sample Location	4,4'-DDD	4,4'-DDE	4,4'-DDT	DDT Total	alpha-Chlordane	gamma-Chlordane	Chlordane	Dieldrin	Heptachlor	Heptachlor epoxide	PCBs
BG-1 (0.5-1)	7/18/2017	½-1	Undeveloped Areas for Background Arsenic Concentrations	---	---	---	---	---		---	---	---	---	---
BG-2 (0.5-1)	7/18/2017	½-1		---	---	---	---	---		---	---	---	---	---
BG-3 (0.5-1)	7/18/2017	½-1		---	---	---	---	---		---	---	---	---	---
BG-4 (0.5-1)	7/18/2017	½-1		---	---	---	---	---		---	---	---	---	---
SS-1 (0-0.5)	12/16/2016	0-½	Former Orchard Areas	<0.0023	0.14	0.0201	0.1601	<0.00069	<0.00065	<0.0084	<0.00059	<0.00042	<0.00031	---
SS-2 (0-0.5)	12/16/2016	0-½		<0.0057	0.0291	0.0117[3]	0.0291	<0.0017	<0.0016	<0.021	<0.0015	<0.0011	<0.00078	---
SS-3 (0-0.5)	12/16/2016	0-½		<0.0023	0.0112	0.00458[3]	0.0112	<0.00069	<0.00065	<0.0084	<0.00059	<0.00042	<0.00031	---
SS-4 (0-0.5)	12/16/2016	0-½		<0.002	0.0456	0.0106	0.0562	<0.002	<0.0016	<0.02	<0.002	<0.002	<0.002	---
SS-4 (2.5-3)	7/18/2017	2½-3		---	---	---	---	---	---	---	---	---	---	---
SS-5 (0-0.5)	12/16/2016	0-½		<0.0023	0.14	0.0167	0.1567	<0.00069	<0.00065	<0.0084	<0.00059	<0.00042	<0.00031	---
SS-6 (0-0.5)	12/16/2016	0-½		<0.002	0.043	0.0194	0.0624	<0.002	<0.0016	<0.02	<0.002	<0.002	<0.002	---
SS-6 (2.5-3)	7/18/2017	2½-3		---	---	---	---	---	---	---	---	---	---	---
SS-7 (0-0.5)	12/16/2016	0-½		<0.0023	0.426	0.0971	0.5231	<0.00069	<0.00065	<0.0084	<0.00059	<0.00042	<0.00031	---
SS-8 (0-0.5)	12/16/2016	0-½		<0.0023	0.124	0.0265	0.1505	<0.00069	<0.00065	<0.0084	<0.00059	<0.00042	<0.00031	---
SS-8 (2.5-3)	7/18/2017	2½-3		---	---	---	---	---	---	---	---	---	---	---
SS-9 (0-0.5)	12/16/2016	0-½		<0.0023	0.444	0.0623	0.5063	<0.00069	<0.00065	<0.0084	<0.00059	<0.00042	<0.00031	---
SS-10 (0-0.5)	12/16/2016	0-½		<0.0023	0.0937	0.0238	0.1175	<0.00069	<0.00065	<0.0084	<0.00059	<0.00042	<0.00031	---
SS-11 (0-0.5)	12/16/2016	0-½		<0.002	0.00335	<0.002	0.00335	<0.002	<0.0016	<0.02	<0.002	<0.002	<0.002	---
SS-12A (0-0.5)	12/16/2016	0-½		---	---	---	---	---	---	---	---	---	---	---
SS-12B (0-0.5)	12/16/2016	0-½		---	---	---	---	---	---	---	---	---	---	---
SS-12C (0-0.5)	12/16/2016	0-½		---	---	---	---	---	---	---	---	---	---	---
SS-12D (0-0.5)	12/16/2016	0-½		---	---	---	---	---	---	---	---	---	---	---
SS-12 (0-0.5)	12/16/2016	0-½		<0.02	0.398	0.138	0.536	<0.02	<0.0016	<0.2	<0.02	<0.02	<0.02	---
SS-12 (2.5-3)	7/18/2017	2½-3		---	---	---	---	---	---	---	---	---	---	---
SS-13 (0-0.5)	12/16/2016	0-½		<0.0017	0.0643	0.0146	0.0789	<0.00052	<0.00049	<0.0063	<0.00044	<0.00032	<0.00023	---
SS-14 (0-0.5)	12/16/2016	0-½		0.0186[3]	0.522	0.106	0.628	<0.0017	<0.0016	<0.021	<0.0015	<0.0011	<0.00078	---
SS-15 (0-0.5)	12/16/2016	0-½		0.00694	0.0624[3]	0.00694[3]	0.00694	<0.0017	<0.0016	<0.021	<0.0015	<0.0011	<0.00078	---
SS-16 (0-0.5)	12/16/2016	0-½		<0.0023	0.315	0.0434	0.3584	<0.00069	<0.00065	<0.0084	<0.00059	<0.00042	<0.00031	---
SS-16 (2.5-3)	7/18/2017	2½-3		---	---	---	---	---	---	---	---	---	---	---
SS-17 (0-0.5)	12/16/2016	0-½		<0.0057	0.15	0.0339	0.1839	<0.0017	<0.0016	<0.021	<0.0015	<0.0011	<0.00078	---
SS-18 (0-0.5)	12/16/2016	0-½		<0.0023	0.013	<0.0023	0.013	<0.00069	<0.00065	<0.0084	<0.00059	<0.00042	<0.00031	---
SS-19 (0-0.5)	12/16/2016	0-½		<0.002	0.0112	0.00772	0.01892	<0.00017	<0.0016	<0.0021	<0.00015	<0.00011	<0.000078	---
SS-20 (0-0.5)	12/16/2016	0-½		<0.0023	0.0997	0.0152	0.1149	<0.00069	<0.00065	<0.0084	<0.00059	<0.00042	<0.00031	---
SS-21 (0-0.5)	12/16/2016	0-½		<0.0023	0.0678	0.0114	0.0792	<0.00069	<0.00065	<0.0084	<0.00059	<0.00042	<0.00031	---
SS-22 (0-0.5)	12/16/2016	0-½		<0.0023	0.259	0.0579	0.3169	<0.00069	<0.00065	<0.0084	<0.00059	<0.00042	<0.00031	---
SS-22 (2.5-3)	7/18/2017	2½-3		---	---	---	---	---	---	---	---	---	---	---
SS-23 (0-0.5)	12/16/2016	0-½		<0.0023	0.0228	0.0105	0.0333	<0.00069	<0.00065	<0.0084	<0.00059	<0.00042	<0.00031	---
SS-24 (0-0.5)	12/16/2016	0-½		<0.0023	0.0368	0.0156	0.0524	<0.00069	<0.00065	<0.0084	<0.00059	<0.00042	<0.00031	---
SS-25 (0-0.5)	7/18/2017	0-½	Exterior Perimeter of Inn and Annex Buildings	<0.002	0.122	0.0772	0.1992	0.0194	0.0159	0.304	<0.00052	<0.00037	0.00376[3]	ND
SS-26 (0-0.5)	7/18/2017	0-½		<0.0019	0.161	0.161	0.322	0.147	0.121	1.49	<0.00051	0.003[3]	0.00621[3]	ND
SS-27 (0-0.5)	7/18/2017	0-½		<0.0029	0.167	0.136	0.303	0.0291	0.0218	0.373	<0.00075	0.0053[3]	<0.0004	ND
SS-28 (0-0.5)	7/18/2017	0-½		0.00429[3]	0.0996	0.0242	0.12809	<0.00087	<0.00082	<0.011	<0.00075	<0.00053	<0.00039	ND
SS-29 (0-0.5)	7/18/2017	0-½		<0.003	0.0407	0.0121	0.0528	<0.00092	<0.00087	<0.011	<0.00079	<0.00056	<0.00041	ND
SS-30 (0-0.5)	7/18/2017	0-½		0.009	0.0828	0.0304	0.1222	<0.00053	<0.00050	<0.0065	<0.00046	<0.00032	<0.00024	ND
SS-31 (0-0.5)	7/18/2017	0-½		<0.0026	0.219	0.267	0.486	0.0612	0.0588	<0.0096	<0.00067	0.00786[3]	<0.00035	ND
SS-32 (0-0.5)	7/18/2017	0-½	Exterior Perimeter of Event Space	<0.0021	0.0116	0.0091	0.0091	<0.00063	<0.0006	<0.0077	<0.00054	<0.00038	<0.00029	ND
SS-33 (0-0.5)	7/18/2017	0-½		<0.0019	0.0118	0.0134	0.0252	<0.0006	<0.00056	<0.0073	<0.00051	<0.00036	<0.00027	ND
SS-34 (0-0.5)	7/18/2017	0-½		<0.0018	0.121	0.0507	0.1717	<0.00055	<0.00052	<0.0067	<0.00047	<0.00033	<0.00025	ND
SS-35 (0-0.5)	7/18/2017	0-½		<0.002	0.041	0.0162	0.0572	<0.00062	<0.00059	<0.0076	<0.00053	<0.00038	<0.00028	ND
SS-36 (0-0.5)	7/18/2017	0-½		<0.0023	0.0372	0.00968	0.04688	<0.00072	<0.00067	<0.0087	<0.00061	<0.00043	<0.00032	ND
SS-37 (0-0.5)	7/18/2017	0-½	Exterior Perimeter of Caretakers Residence	<0.0025	0.0178	0.00989	0.02769	0.0217	0.0166	0.232	<0.00065	<0.00046	<0.00034	ND
SS-38 (0-0.5)	7/18/2017	0-½		<0.0018	0.0463	0.0398	0.0861	0.00299[3]	0.00271[3]	0.093	<0.00048	<0.00034	<0.00025	ND
SS-39 (0-0.5)	7/18/2017	0-½		<0.0019	0.0124	0.0138	0.0262	0.00154[3]	0.00140[3]	0.115	0.00149[3]	<0.00035	<0.00026	ND
SS-40 (0-0.5)	7/18/2017	0-½		<0.0018	0.00545[3]	0.007	0.01245	0.0182	0.0146	0.12	<0.00048	<0.00034	<0.00026	ND
SS-41 (0-0.5)	7/18/2017	0-½		<0.002	0.034	0.0252	0.0592	0.00724	0.00773	0.157	<0.00053	<0.00038	<0.00028	ND
SS-42 (0-0.5)	7/18/2017	0-½		<0.0024	0.0453	0.0558	0.1011	0.00151[3]	0.00207[3]	0.0507[3]	<0.00062	<0.00044	<0.00033	ND
SS-43 (0-0.5)	7/18/2017	0-½	Exterior Perimeter of Barn	<0.0021	0.0218	0.0158	0.0376	<0.00063	<0.0006	<0.0077	<0.00054	<0.00038	<0.00029	---
SS-44 (0-0.5)	7/18/2017	0-½		<0.0029	0.25	0.0556	0.3056	<0.00089	<0.00084	<0.011	<0.00076	<0.00054	<0.0004	---
SS-45 (0-0.5)	7/18/2017	0-½		<0.0018	0.114	0.0444	0.1584	<0.00056	<0.00053	<0.0068	<0.00048	<0.00034	<0.00025	---
SS-46 (0-0.5)	7/18/2017	0-½		<0.0017	0.085	0.0162	0.1012	<0.00052	<0.00049	<0.0064	<0.00045	<0.00032	<0.00024	---
SS-47 (0-0.5)	7/18/2017	0-½	Pond Sediment	<0.0043	0.0655	0.0148[3]	0.0803	<0.0013	<0.0012	<0.016	<0.0011	<0.0008	<0.00059	---
SS-48 (0-0.5)	7/18/2017	0-½		<0.00076	<0.00026	<0.00017	<0.00017	<0.00023	<0.00022	<0.0028	<0.0002	<0.00014	<0.00011	---
SS-49 (0-0.5)	7/18/2017	0-½		<0.0025	0.0122	<0.00058	0.0122	<0.00078	<0.00073	<0.0095	<0.00067	<0.00047	<0.00035	---
SS-50 (0-0.5)	7/18/2017	0-½	On-Site Transformer	---	---	---	---	---	---	---	---	---	---	ND
SS-50 (1-1.5)	7/18/2017	1-1½		---	---	---	---	---	---	---	---	---	---	ND
SS-50 (2-3)	7/18/2017	2-3		---	---	---	---	---	---	---	---	---	---	ND
SS-51 (0-0.5)	9/7/2017	0-½		---	---	---	---	---	---	---	---	---	---	ND
SS-51 (1 - 1.5))	9/7/2017	1-1½		---	---	---	---	---	---	---	---	---	---	ND
SS-101 (0-0.5)	7/18/2017	0-½	SS-47 Duplicate	<0.0024	0.0378	0.00301[3]	0.04081	<0.00074	<0.00069	<0.009	<0.00063	<0.00045	<0.00033	---
SS-102 (0-0.5)	7/18/2017	0-½	SS-28 Duplicate	<0.0018	0.0452	0.0125	0.0577	<0.00057	<0.00053	<0.0069	<0.00048	<0.00034	<0.00026	ND
EqB-1 (µg/L)	7/18/2017	---	Equipment Blank	<0.0028	<0.0088	<0.0051	<0.0088	<0.0035		<0.13	<0.0031	<0.010	<0.0031	ND
Screening Level				2.3	2	1.9	1	NE	NE	0.44	0.034	0.13	0.07	Variable
Basis				RSL	RSL	RSL	TTLC	NE	NE	DTSC-SL	RSL	RSL	RSL	Variable

1 Regional Screening Level (RSL), USEPA Region 9 - June 2017.
2 Recommended Screening Level (SL), HERO Note 3 - June 2017
< Not detected at or above laboratory reporting limit
ND Not detected at or above reporting limit
NE Not Established
--- Not Analyzed
BOLD Concentration exceeds selected environmental screening criteria

Table 5. Summary Statistics - Arsenic, Lead and Detected Organochlorine Pesticides
(Concentrations in mg/kg)

Chemical Detected	Number of Samples	Number of Detects	Screening Level (mg/kg)	Frequency of Detection (Percent)	Minimum Detected (mg/kg)	Maximum Detected (mg/kg)	No. of Samples Exceeding Screening Level	Location of Maximum	Mean Concentration (mg/kg)	Site Wide 95% UCL (mg/kg)
Arsenic	65	65	17.5 [a]	100%	1.08	41.11	3	SS-12D	9.256	10.51
Lead	49	49	80	100%	1.36	263	5	SS-25, SS-31	41.25	58.04
Chlordane	49	9	0.44	18%	0.0507	1.49	1	SS-26	0.326	0.166
Dieldrin	49	1	0.034	2%	0.00149	0.00149	0	SS-39	NC	NC
Heptachlor	49	3	0.13	6%	0.003	0.00786	0	SS-26	NC	NC
Heptachlor Epoxide	49	2	0.07	4%	0.00376	0.00621	0	SS-26	NC	NC
4,4-DDE	49	48	2	98%	0.00335	0.522	0	SS-14	NC	NC
4,4-DDD	49	4	2.3	8%	0.00429	0.0186	0	SS-14	NC	NC
4,4-DDT	49	45	1.9	92%	0.00458	0.267	0	SS-31	NC	NC

NC - Not calculated due to small number of detections or maximum concentration below screening level

a - Site-specific backgroud (see Section 6.1)

APPENDIX A – DTSC CORRESPONDENCE

Department of Toxic Substances Control

Matthew Rodriquez
Secretary for
Environmental Protection

Barbara A. Lee, Director
8800 Cal Center Drive
Sacramento, California 95826-3200

Edmund G. Brown Jr.
Governor

June 29, 2017

Mr. Peter M. Langtry, P.G., C.E.G.
Senior Principal Geologist
Cornerstone Earth Group
1270 Springbrook Road, Suite 101
Walnut Creek, California 94597

APPROVAL OF THE FINAL PRELIMINARY ENDANGERMENT ASSESSMENT WORK PLAN FOR THE PLANNED TRIBAL SCHOOL SITE LOCATED AT 3141 TAYLOR ROAD, PLACER COUNTY, CALIFORNIA

Dear Mr. Langtry:

The Department of Toxic Substances Control (DTSC) has reviewed the Final Preliminary Endangerment Assessment Work Plan (Final Work Plan) dated June 28, 2017 for the planned Tribal School located at 3141 Taylor Road in Placer County, California (Site). The Final Work Plan addresses DTSC comments on the draft Work Plan issued on June 26, 2017 and is hereby approved. Please notify me at (916) 255-6528 or via e-mail at Dean.Wright@dtsc.ca.gov as soon as dates for the sampling effort are selected.

Thank you for your efforts to ensure this site is safe for its intended future use.

Sincerely,

Mr. Dean Wright, P.G.,
Site Evaluation and Remediation Unit

cc: Mr. Richard S. Chavez, P.E.
RSC Engineering
2250 Douglas Boulevard, Suite 150
Roseville, California 95661

RECEIVED
JUL 03 2017
BY:

cc: Mr. Randy Boehm
Urban Resources, Inc.
2500 NE Sandy Boulevard, Suite B
Portland, Oregon 97232

Mr. West Bourgault, P.G.
Hazardous Materials and Solid Waste Supervisor
Placer County Health and Human Services Department
Environmental Health Division
3091 County Center Drive
Auburn, California 95603

Mr. Steven Becker, P.G., Chief (electronic copy)
Site Evaluation and Remediation Unit
Department of Toxic Substances Control
8800 Cal Center Drive
Sacramento, California 95826

CORNERSTONE EARTH GROUP

Date:	October 31, 2017
Project No.:	411-16-3
Prepared For:	Mr. Dean Wright **DEPARTMENT OF TOXIC SUBSTANCES CONTROL** 8800 Cal Center Drive Sacramento, California 95826
Re:	Response to DTSC Comments to Draft PEA Report Planned Tribal School 3141 Taylor Road Placer County, California

Dear Mr. Wright:

Thank you for reviewing and commenting on the Draft PEA Report for the Planned Tribal School at 3141 Taylor Road in Placer County, California.

We have reviewed and addressed each of the comments in your letter dated October 26, 2017. Attached with this letter is a table that summarizes and responds to each of the Department of Toxic Substances Control (DTSC) comments. A Revised PEA Report is also attached.

Please let us know if you have any additional questions or comments.

Sincerely,

Cornerstone Earth Group, Inc.

Peter Langtry, P.G., C.E.G.
Senior Principal Geologist

Copies: Addressee (1 by email)
RSC Engineering (1 by email)
Attn: Mr. Richard Chavez
Urban Resources, Inc. (1 by email)
Attn: Mr. Randy Boehm

Attachments: Response to Comments Table
Revised PEA Report

Response to DTSC Comments for Draft PEA Report Planned Tribal School Site Placer County, California	
DTSC Comments	***Response***
1. The Report indicates that guidance titled *Selecting Inorganic Constituents as Chemicals of Potential Concern for Risk Assessments at Hazardous Waste Sites and Permitted Facilities* (DTSC 1997) was used to determine the arsenic background in soil at the Site. DTSC recommends using the more recent guidance titled *Arsenic Strategies – Determination of Arsenic Remediation – Development of Arsenic Cleanup Goals* (DTSC 2009). This guidance allows for the use of the 4th spread analysis to remove outliers in an iterative process until no outliers are identified. Conducing the arsenic background evaluation in this manner may result in a lower background concentration and reveal additional areas of the Site which may require remediation. Please include the spreadsheets used to calculate the background using the site-wide data in the revised Report.	Additional discussion of the statistical methodology was performed and included in the Report
2. Table 6 in the Report incorrectly identifies the non-cancer screening level for arsenic as 11 mg/kg. As per DTSC HHRA Note 3, the correct non-cancer screening level is 0.4 mg/kg.	Table 6 of the report has been corrected.
3. Once the arsenic background concentration is derived as per bullet number one above, DTSC requests that the revised report include the risk and hazard associated with the background to demonstrate how much past activities on site have contributed to the overall hazard and risk due to arsenic.	The risk and hazard associated with the estimated arsenic background has been added to Table 6.

Department of Toxic Substances Control

Matthew Rodriquez
Secretary for
Environmental Protection

Barbara A. Lee, Director
8800 Cal Center Drive
Sacramento, California 95826-3200

Edmund G. Brown Jr.
Governor

November 9, 2017

Mr. Peter M. Langtry, P.G., C.E.G.
Senior Principal Geologist
Cornerstone Earth Group
1270 Springbrook Road, Suite 101
Walnut Creek, California 94597

ACCEPTANCE OF THE REVISED DRAFT PRELIMINARY ENDANGERMENT ASSESSMENT REPORT FOR THE PLANNED TRIBAL SCHOOL SITE LOCATED AT 3141 TAYLOR ROAD, PLACER COUNTY, CALIFORNIA

Dear Mr. Langtry:

The Department of Toxic Substances Control (DTSC) has reviewed the Revised Draft Preliminary Endangerment Assessment Report (Revised Report) dated October 31, 2017 for the planned Tribal School located at 3141 Taylor Road in Placer County, California (Site). The Report was submitted to DTSC on behalf of the United Auburn Indian Community by the Cornerstone Earth Group and followed the approved Preliminary Endangerment Assessment Work Plan dated June 28, 2017. The investigation included soil and sediment samples collected from targeted and random locations throughout the property to determine if a release of hazardous materials occurred at the Site and the threats those releases may pose to human health or the environment. The Revised Report also addresses DTSC comments that were provided on the Draft Preliminary Endangerment Assessment Report dated October 6, 2017.

The Revised Report identified two areas where shallow soil is recommended for removal. The first is around the existing Inn and Annex building where lead concentrations were found above residential screening levels. The second is a section of the former orchard area where concentrations of arsenic were above the background concentration of 17.5 milligrams per kilogram (mg/kg) calculated in the Revised Report. DTSC appreciates the additional arsenic background evaluation that was provided in the Revised Report and agrees with the recommendations for soil removal at the two identified areas of the Site.

Please provide one hard copy and one electronic copy of a signed, Final Preliminary Endangerment Assessment Report (Final Report) to DTSC within 10 days of receiving

this letter. Upon receiving the Final Report, DTSC will issue a final approval letter and the investigative phase of this project will be complete. DTSC will also begin the process of amending the Voluntary Cleanup Agreement for the project Site to include all tasks associated with the completion of a Removal Action. If you have any questions regarding this letter, please contact me at (916) 255-6528.

Sincerely,

Mr. Dean Wright, P.G.,
Site Evaluation and Remediation Unit

cc: Mr. Richard S. Chavez, P.E.
RSC Engineering
2250 Douglas Blvd., Suite 150
Roseville, California 95661

Mr. Randy Boehm
Urban Resources, Inc.
2500 NE Sandy Blvd., Suite B
Portland, Oregon 97232

Mr. West Bourgault, P.G.
Hazardous Materials and Solid Waste Supervisor
Placer County Health and Human Services Department
Environmental Health Division
3091 County Center Drive
Auburn, California 95603

Valerie Mitchell Hanley, Ph.D. (electronic copy)
Staff Toxicologist
Human and Ecological Risk Office
Department of Toxic Substances Control
8800 Cal Center Drive
Sacramento, California 95826

Mr. Steven Becker, P.G., Chief (electronic copy)
Site Evaluation and Remediation Unit
Department of Toxic Substances Control
8800 Cal Center Drive
Sacramento, California 95826

APPENDIX B – ANALYTICAL DATA SHEETS AND CHAIN OF CUSTODY DOCUMENTATION

Cornerstone(Walnut Creek)
1270 Springbrook Rd., Ste. 101
Walnut Creek, California 94597
Tel: 925 988 9500
Fax: 925 988 9501

RE: 3141 Taylor Road

Work Order No.: 1707122

Dear Peter Langtry:

Torrent Laboratory, Inc. received 24 sample(s) on July 19, 2017 for the analyses presented in the following Report.

All data for associated QC met EPA or laboratory specification(s) except where noted in the case narrative.

Torrent Laboratory, Inc. is certified by the State of California, ELAP #1991. If you have any questions regarding these test results, please feel free to contact the Project Management Team at (408)263-5258; ext 204.

Patti L Sandrock
QA Officer

July 27, 2017
Date

Date: 7/27/2017

Client: Cornerstone(Walnut Creek)

Project: 3141 Taylor Road

Work Order: 1707122

CASE NARRATIVE

No issues encountered with the receiving, preparation, analysis or reporting of the results associated with this work order.

Unless otherwise indicated in the following narrative, no results have been method and/or field blank corrected.

Reported results relate only to the items/samples tested by the laboratory.

This report shall not be reproduced, except in full, without the written approval of Torrent Analytical, Inc.

Data is reported as dry weight. Where necessary, results are reported to the MDL to meet client reporting limits of 0.5 mg/kg for metals, 50 ug/kg for PCBs and 2 ug/kg for Pesticides (40 ug/kg for Toxaphene and Chlordane).

Analytical Comments for method _Met_S_6020CAM17, 1707122-001A MS/MSD, QC Analytical Preparation ID 8321, Note:The % recoveries for Silver are outside of laboratory control limits but % RPD is within limits. The associated LCS/LCSD is within both % Recovery and %RPD limits. No corrective action required.

Analytical Comments for method _Met_S_6020CAM17, 1707122-019A MS/MSD, QC Analytical Preparation ID 8336, Note:The % recoveries for Silver, Barium, Chromium, Vanadium and Zinc are outside of laboratory control limits but % RPD is within limits. The associated LCS/LCSD is within both % Recovery and %RPD limits. No corrective action required.

Torrent LABORATORY, INC.

Sample Result Summary

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date Received: 07/19/17
Date Reported: 07/27/17

SS-101 (0-0.5) 1707122-001

Parameters:	Analysis Method	DF	MDL	PQL	Results	Unit
Arsenic	6020A	1	0.21	1.0	3.35	mg/Kg
Barium	6020A	1	0.84	1.0	24.8	mg/Kg
Chromium	6020A	1	0.097	1.0	19.1	mg/Kg
Cobalt	6020A	1	0.21	1.0	4.19	mg/Kg
Copper	6020A	1	0.17	2.5	13.3	mg/Kg
Lead	6020A	1	0.054	1.0	5.33	mg/Kg
Nickel	6020A	1	1.2	5.0	9.80	mg/Kg
Vanadium	6020A	1	0.28	25	21.3	mg/Kg
Zinc	6020A	1	0.70	2.5	20.3	mg/Kg
% Moisture	ASTM D2216-90	1	0.050	0.050	29.5	%
Dry Weight Factor	ASTM D2216-90	1			1.42	%
4,4-DDE	SW8081B	3	0.83	8.5	37.8	ug/Kg
4,4-DDT	SW8081B	3	0.55	8.5	3.01	ug/Kg

SS-102 (0-0.5) 1707122-002

Parameters:	Analysis Method	DF	MDL	PQL	Results	Unit
Antimony	6020A	1	0.12	1.0	0.356	mg/Kg
Arsenic	6020A	1	0.21	1.0	8.49	mg/Kg
Beryllium	6020A	1	0.16	1.0	0.172	mg/Kg
Cadmium	6020A	1	0.084	1.0	0.165	mg/Kg
Chromium	6020A	1	0.097	1.0	23.7	mg/Kg
Cobalt	6020A	1	0.21	1.0	6.07	mg/Kg
Copper	6020A	1	0.17	2.5	22.9	mg/Kg
Lead	6020A	1	0.054	1.0	38.9	mg/Kg
Molybdenum	6020A	1	0.13	1.0	0.846	mg/Kg
Nickel	6020A	1	1.2	5.0	13.8	mg/Kg
Vanadium	6020A	1	0.28	25	40.7	mg/Kg
Barium	6020A	10	1.7	2.0	87.5	mg/Kg
Zinc	6020A	10	1.4	5.0	112	mg/Kg
Silver	6020A	1	0.11	1.1	0.250	mg/Kg
% Moisture	ASTM D2216-90	1	0.050	0.050	7.89	%
Dry Weight Factor	ASTM D2216-90	1			1.09	%
4,4-DDE	SW8081B	3	0.63	6.5	45.2	ug/Kg
4,4-DDT	SW8081B	3	0.42	6.5	12.5	ug/Kg

Torrent LABORATORY, INC.

Sample Result Summary

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date Received: 07/19/17
Date Reported: 07/27/17

SS-1 (0-0.5) 1707122-003

Parameters:	Analysis Method	DF	MDL	PQL	Results	Unit
Antimony	6020A	1	0.12	1.0	0.165	mg/Kg
Arsenic	6020A	1	0.21	1.0	9.54	mg/Kg
Barium	6020A	1	0.84	1.0	59.7	mg/Kg
Cadmium	6020A	1	0.084	1.0	0.102	mg/Kg
Chromium	6020A	1	0.097	1.0	28.3	mg/Kg
Cobalt	6020A	1	0.21	1.0	6.78	mg/Kg
Copper	6020A	1	0.17	2.5	23.1	mg/Kg
Lead	6020A	1	0.054	1.0	17.6	mg/Kg
Molybdenum	6020A	1	0.13	1.0	0.252	mg/Kg
Nickel	6020A	1	1.2	5.0	13.6	mg/Kg
Vanadium	6020A	1	0.28	25	30.5	mg/Kg
Zinc	6020A	1	0.70	2.5	39.9	mg/Kg
% Moisture	ASTM D2216-90	1	0.050	0.050	28.4	%
Dry Weight Factor	ASTM D2216-90	1			1.40	%

SS-2 (0-0.5) 1707122-004

Parameters:	Analysis Method	DF	MDL	PQL	Results	Unit
Antimony	6020A	1	0.12	1.0	0.322	mg/Kg
Arsenic	6020A	1	0.21	1.0	12.2	mg/Kg
Beryllium	6020A	1	0.16	1.0	0.173	mg/Kg
Cadmium	6020A	1	0.084	1.0	0.156	mg/Kg
Chromium	6020A	1	0.097	1.0	45.9	mg/Kg
Cobalt	6020A	1	0.21	1.0	9.20	mg/Kg
Copper	6020A	1	0.17	2.5	32.1	mg/Kg
Lead	6020A	1	0.054	1.0	32.8	mg/Kg
Molybdenum	6020A	1	0.13	1.0	0.706	mg/Kg
Nickel	6020A	1	1.2	5.0	19.0	mg/Kg
Vanadium	6020A	1	0.28	25	46.4	mg/Kg
Zinc	6020A	1	0.70	2.5	68.4	mg/Kg
Barium	6020A	1	1.1	1.3	81.9	mg/Kg
% Moisture	ASTM D2216-90	1	0.050	0.050	25.5	%
Dry Weight Factor	ASTM D2216-90	1			1.34	%

Torrent LABORATORY, INC.

Sample Result Summary

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date Received: 07/19/17
Date Reported: 07/27/17

SS-3 (0-0.5) 1707122-005

Parameters:	Analysis Method	DF	MDL	PQL	Results	Unit
Antimony	6020A	1	0.19	1.6	0.238	mg/Kg
Arsenic	6020A	1	0.33	1.6	16.3	mg/Kg
Barium	6020A	1	1.3	1.6	76.9	mg/Kg
Chromium	6020A	1	0.15	1.6	42.3	mg/Kg
Cobalt	6020A	1	0.33	1.6	11.0	mg/Kg
Copper	6020A	1	0.27	3.9	35.4	mg/Kg
Lead	6020A	1	0.084	1.6	26.6	mg/Kg
Molybdenum	6020A	1	0.20	1.6	0.462	mg/Kg
Nickel	6020A	1	2.0	7.9	19.9	mg/Kg
Vanadium	6020A	1	0.44	39	50.4	mg/Kg
Zinc	6020A	1	1.1	3.9	53.4	mg/Kg
% Moisture	ASTM D2216-90	1	0.050	0.050	36.5	%
Dry Weight Factor	ASTM D2216-90	1			1.57	%

SS-4 (0-0.5) 1707122-006

Parameters:	Analysis Method	DF	MDL	PQL	Results	Unit
Antimony	6020A	1	0.12	1.0	0.220	mg/Kg
Arsenic	6020A	1	0.21	1.0	14.8	mg/Kg
Beryllium	6020A	1	0.16	1.0	0.164	mg/Kg
Cadmium	6020A	1	0.084	1.0	0.105	mg/Kg
Chromium	6020A	1	0.098	1.0	32.6	mg/Kg
Cobalt	6020A	1	0.21	1.0	8.47	mg/Kg
Copper	6020A	1	0.17	2.5	31.9	mg/Kg
Lead	6020A	1	0.054	1.0	31.0	mg/Kg
Molybdenum	6020A	1	0.13	1.0	0.373	mg/Kg
Nickel	6020A	1	1.3	5.1	14.4	mg/Kg
Vanadium	6020A	1	0.28	25	36.4	mg/Kg
Zinc	6020A	1	0.71	2.5	34.7	mg/Kg
Barium	6020A	10	1.7	2.0	72.3	mg/Kg
Silver	6020A	1	0.099	1.0	0.406	mg/Kg
% Moisture	ASTM D2216-90	1	0.050	0.050	1.21	%
Dry Weight Factor	ASTM D2216-90	1			1.01	%

SS-4 (2.5-3) 1707122-007

Parameters:	Analysis Method	DF	MDL	PQL	Results	Unit
Arsenic	6020A	1	0.28	1.3	16.1	mg/Kg
% Moisture	ASTM D2216-90	1	0.050	0.050	25.6	%
Dry Weight Factor	ASTM D2216-90	1			1.34	%

Torrent LABORATORY, INC.

Sample Result Summary

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date Received: 07/19/17
Date Reported: 07/27/17

SS-5 (0-0.5) 1707122-008

Parameters:	Analysis Method	DF	MDL	PQL	Results	Unit
Antimony	6020A	1	0.12	1.0	0.154	mg/Kg
Arsenic	6020A	1	0.21	1.0	8.60	mg/Kg
Chromium	6020A	1	0.098	1.0	22.3	mg/Kg
Cobalt	6020A	1	0.21	1.0	5.69	mg/Kg
Copper	6020A	1	0.17	2.5	21.6	mg/Kg
Lead	6020A	1	0.054	1.0	32.1	mg/Kg
Molybdenum	6020A	1	0.13	1.0	0.146	mg/Kg
Nickel	6020A	1	1.3	5.1	10.4	mg/Kg
Vanadium	6020A	1	0.28	25	24.3	mg/Kg
Zinc	6020A	1	0.71	2.5	25.2	mg/Kg
Barium	6020A	10	1.7	2.0	71.3	mg/Kg
% Moisture	ASTM D2216-90	1	0.050	0.050	0.680	%
Dry Weight Factor	ASTM D2216-90	1			1.01	%

SS-6 (0-0.5) 1707122-009

Parameters:	Analysis Method	DF	MDL	PQL	Results	Unit
Antimony	6020A	1	0.15	1.3	0.233	mg/Kg
Arsenic	6020A	1	0.26	1.3	11.4	mg/Kg
Cadmium	6020A	1	0.10	1.3	0.147	mg/Kg
Chromium	6020A	1	0.12	1.3	34.3	mg/Kg
Cobalt	6020A	1	0.26	1.3	8.90	mg/Kg
Copper	6020A	1	0.21	3.1	29.7	mg/Kg
Lead	6020A	1	0.067	1.3	31.2	mg/Kg
Molybdenum	6020A	1	0.16	1.3	0.298	mg/Kg
Nickel	6020A	1	1.6	6.3	18.4	mg/Kg
Vanadium	6020A	1	0.35	31	40.8	mg/Kg
Zinc	6020A	1	0.88	3.1	42.2	mg/Kg
Barium	6020A	10	2.1	2.5	79.9	mg/Kg
% Moisture	ASTM D2216-90	1	0.050	0.050	19.9	%
Dry Weight Factor	ASTM D2216-90	1			1.25	%

SS-6 (2.5-3) 1707122-010

Parameters:	Analysis Method	DF	MDL	PQL	Results	Unit
Arsenic	6020A	1	0.24	1.1	6.38	mg/Kg
% Moisture	ASTM D2216-90	1	0.050	0.050	12.1	%
Dry Weight Factor	ASTM D2216-90	1			1.14	%

Torrent LABORATORY, INC.

Sample Result Summary

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date Received: 07/19/17
Date Reported: 07/27/17

SS-7 (0-0.5) 1707122-011

Parameters:	Analysis Method	DF	MDL	PQL	Results	Unit
Antimony	6020A	1	0.14	1.2	0.197	mg/Kg
Arsenic	6020A	1	0.25	1.2	8.04	mg/Kg
Cadmium	6020A	1	0.10	1.2	0.109	mg/Kg
Chromium	6020A	1	0.12	1.2	30.7	mg/Kg
Cobalt	6020A	1	0.25	1.2	7.79	mg/Kg
Copper	6020A	1	0.20	3.0	31.1	mg/Kg
Lead	6020A	1	0.064	1.2	28.0	mg/Kg
Molybdenum	6020A	1	0.16	1.2	0.250	mg/Kg
Nickel	6020A	1	1.5	6.0	14.5	mg/Kg
Vanadium	6020A	1	0.34	30	34.3	mg/Kg
Zinc	6020A	1	0.84	3.0	34.0	mg/Kg
Barium	6020A	10	2.0	2.4	91.3	mg/Kg
% Moisture	ASTM D2216-90	1	0.050	0.050	16.8	%
Dry Weight Factor	ASTM D2216-90	1			1.20	%

SS-9 (0-0.5) 1707122-012

Parameters:	Analysis Method	DF	MDL	PQL	Results	Unit
Antimony	6020A	1	0.16	1.4	0.167	mg/Kg
Arsenic	6020A	1	0.28	1.4	13.5	mg/Kg
Cadmium	6020A	1	0.11	1.4	0.124	mg/Kg
Chromium	6020A	1	0.13	1.4	34.1	mg/Kg
Cobalt	6020A	1	0.28	1.4	8.98	mg/Kg
Copper	6020A	1	0.23	3.4	44.2	mg/Kg
Lead	6020A	1	0.072	1.4	56.0	mg/Kg
Molybdenum	6020A	1	0.18	1.4	0.265	mg/Kg
Nickel	6020A	1	1.7	6.8	17.0	mg/Kg
Vanadium	6020A	1	0.38	34	37.9	mg/Kg
Zinc	6020A	1	0.95	3.4	42.0	mg/Kg
Barium	6020A	10	2.3	2.7	115	mg/Kg
% Moisture	ASTM D2216-90	1	0.050	0.050	26.1	%
Dry Weight Factor	ASTM D2216-90	1			1.35	%

Torrent LABORATORY, INC.

Sample Result Summary

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date Received: 07/19/17
Date Reported: 07/27/17

SS-8 (0-0.5) 1707122-013

Parameters:	Analysis Method	DF	MDL	PQL	Results	Unit
Antimony	6020A	1	0.13	1.0	0.186	mg/Kg
Arsenic	6020A	1	0.22	1.0	9.79	mg/Kg
Cadmium	6020A	1	0.087	1.0	0.0879	mg/Kg
Chromium	6020A	1	0.10	1.0	26.5	mg/Kg
Cobalt	6020A	1	0.22	1.0	7.16	mg/Kg
Copper	6020A	1	0.18	2.6	31.1	mg/Kg
Lead	6020A	1	0.056	1.0	42.4	mg/Kg
Molybdenum	6020A	1	0.14	1.0	0.182	mg/Kg
Nickel	6020A	1	1.3	5.2	12.7	mg/Kg
Vanadium	6020A	1	0.29	26	27.9	mg/Kg
Zinc	6020A	1	0.73	2.6	29.0	mg/Kg
Barium	6020A	10	1.7	2.1	90.7	mg/Kg
% Moisture	ASTM D2216-90	1	0.050	0.050	3.84	%
Dry Weight Factor	ASTM D2216-90	1			1.04	%

SS-8 (2.5-3) 1707122-014

Parameters:	Analysis Method	DF	MDL	PQL	Results	Unit
Arsenic	6020A	1	0.26	1.2	5.70	mg/Kg
% Moisture	ASTM D2216-90	1	0.050	0.050	19.2	%
Dry Weight Factor	ASTM D2216-90	1			1.24	%

SS-10 (0-0.5) 1707122-015

Parameters:	Analysis Method	DF	MDL	PQL	Results	Unit
Antimony	6020A	1	0.12	1.0	0.163	mg/Kg
Arsenic	6020A	1	0.21	1.0	8.56	mg/Kg
Beryllium	6020A	1	0.16	1.0	0.189	mg/Kg
Cadmium	6020A	1	0.084	1.0	0.0985	mg/Kg
Cobalt	6020A	1	0.21	1.0	10.8	mg/Kg
Copper	6020A	1	0.17	2.5	38.8	mg/Kg
Lead	6020A	1	0.054	1.0	24.2	mg/Kg
Molybdenum	6020A	1	0.13	1.0	0.267	mg/Kg
Nickel	6020A	1	1.3	5.1	19.4	mg/Kg
Vanadium	6020A	1	0.28	25	48.5	mg/Kg
Zinc	6020A	1	0.71	2.5	44.1	mg/Kg
Barium	6020A	10	1.7	2.0	114	mg/Kg
Chromium	6020A	1	0.098	1.0	40.5	mg/Kg
% Moisture	ASTM D2216-90	1	0.050	0.050	1.12	%
Dry Weight Factor	ASTM D2216-90	1			1.01	%

Torrent LABORATORY, INC.

Sample Result Summary

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date Received: 07/19/17
Date Reported: 07/27/17

SS-11 (0-0.5) 1707122-016

Parameters:	Analysis Method	DF	MDL	PQL	Results	Unit
Antimony	6020A	1	0.12	1.0	0.285	mg/Kg
Arsenic	6020A	1	0.21	1.0	8.80	mg/Kg
Beryllium	6020A	1	0.16	1.0	0.164	mg/Kg
Cadmium	6020A	1	0.084	1.0	0.166	mg/Kg
Cobalt	6020A	1	0.21	1.0	7.14	mg/Kg
Copper	6020A	1	0.17	2.5	18.5	mg/Kg
Lead	6020A	1	0.054	1.0	21.1	mg/Kg
Molybdenum	6020A	1	0.13	1.0	0.491	mg/Kg
Nickel	6020A	1	1.3	5.1	14.6	mg/Kg
Vanadium	6020A	1	0.28	25	37.0	mg/Kg
Zinc	6020A	1	0.71	2.5	55.7	mg/Kg
Barium	6020A	10	1.7	2.0	108	mg/Kg
Chromium	6020A	1	0.098	1.0	24.6	mg/Kg
% Moisture	ASTM D2216-90	1	0.050	0.050	1.37	%
Dry Weight Factor	ASTM D2216-90	1			1.01	%

SS-12 (0-0.5) 1707122-017

Parameters:	Analysis Method	DF	MDL	PQL	Results	Unit
Antimony	6020A	1	0.15	1.2	0.160	mg/Kg
Arsenic	6020A	1	0.25	1.2	16.6	mg/Kg
Barium	6020A	1	1.0	1.2	53.5	mg/Kg
Cobalt	6020A	1	0.25	1.2	5.64	mg/Kg
Copper	6020A	1	0.21	3.0	12.7	mg/Kg
Lead	6020A	1	0.065	1.2	53.1	mg/Kg
Nickel	6020A	1	1.5	6.1	9.05	mg/Kg
Vanadium	6020A	1	0.34	30	21.5	mg/Kg
Zinc	6020A	1	0.85	3.0	21.5	mg/Kg
Chromium	6020A	1	0.12	1.2	20.5	mg/Kg
% Moisture	ASTM D2216-90	1	0.050	0.050	17.5	%
Dry Weight Factor	ASTM D2216-90	1			1.21	%

SS-12 (2.5-3) 1707122-018

Parameters:	Analysis Method	DF	MDL	PQL	Results	Unit
Arsenic	6020A	1	0.22	1.1	4.43	mg/Kg
% Moisture	ASTM D2216-90	1	0.050	0.050	6.33	%
Dry Weight Factor	ASTM D2216-90	1			1.07	%

Torrent LABORATORY, INC.

Sample Result Summary

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date Received: 07/19/17
Date Reported: 07/27/17

SS-13 (0-0.5) 1707122-019

Parameters:	Analysis Method	DF	MDL	PQL	Results	Unit
Arsenic	6020A	1	0.21	1.0	4.64	mg/Kg
Chromium	6020A	1	0.097	1.0	20.9	mg/Kg
Cobalt	6020A	1	0.21	1.0	5.78	mg/Kg
Copper	6020A	1	0.17	2.5	18.8	mg/Kg
Lead	6020A	1	0.054	1.0	13.1	mg/Kg
Nickel	6020A	1	1.2	5.0	10.0	mg/Kg
Vanadium	6020A	1	0.28	25	25.0	mg/Kg
Zinc	6020A	1	0.70	2.5	23.1	mg/Kg
Barium	6020A	10	1.7	2.0	70.0	mg/Kg
% Moisture	ASTM D2216-90	1	0.050	0.050	0.440	%
Dry Weight Factor	ASTM D2216-90	1			1.00	%

SS-14 (0-0.5) 1707122-020

Parameters:	Analysis Method	DF	MDL	PQL	Results	Unit
Antimony	6020A	1	0.12	1.0	0.188	mg/Kg
Arsenic	6020A	1	0.21	1.0	6.88	mg/Kg
Cadmium	6020A	1	0.084	1.0	0.115	mg/Kg
Chromium	6020A	1	0.097	1.0	28.6	mg/Kg
Cobalt	6020A	1	0.21	1.0	6.99	mg/Kg
Copper	6020A	1	0.17	2.5	28.3	mg/Kg
Lead	6020A	1	0.054	1.0	30.2	mg/Kg
Molybdenum	6020A	1	0.13	1.0	0.212	mg/Kg
Nickel	6020A	1	1.2	5.0	12.9	mg/Kg
Vanadium	6020A	1	0.28	25	29.1	mg/Kg
Zinc	6020A	1	0.70	2.5	33.3	mg/Kg
Barium	6020A	10	1.7	2.0	86.1	mg/Kg
% Moisture	ASTM D2216-90	1	0.050	0.050	0.440	%
Dry Weight Factor	ASTM D2216-90	1			1.00	%

Torrent LABORATORY, INC.

Sample Result Summary

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date Received: 07/19/17
Date Reported: 07/27/17

SS-15 (0-0.5) 1707122-021

Parameters:	Analysis Method	DF	MDL	PQL	Results	Unit
Antimony	6020A	1	0.18	1.5	0.462	mg/Kg
Arsenic	6020A	1	0.30	1.5	17.4	mg/Kg
Beryllium	6020A	1	0.23	1.5	0.326	mg/Kg
Cadmium	6020A	1	0.12	1.5	0.183	mg/Kg
Chromium	6020A	1	0.14	1.5	50.8	mg/Kg
Cobalt	6020A	1	0.31	1.5	12.7	mg/Kg
Copper	6020A	1	0.25	3.7	28.4	mg/Kg
Lead	6020A	1	0.078	1.5	42.9	mg/Kg
Molybdenum	6020A	1	0.19	1.5	0.668	mg/Kg
Nickel	6020A	1	1.8	7.3	24.1	mg/Kg
Vanadium	6020A	1	0.41	37	61.7	mg/Kg
Zinc	6020A	1	1.0	3.7	69.7	mg/Kg
Barium	6020A	10	2.4	2.9	128	mg/Kg
% Moisture	ASTM D2216-90	1	0.050	0.050	27.2	%
Dry Weight Factor	ASTM D2216-90	1			1.37	%

SS-16 (0-0.5) 1707122-022

Parameters:	Analysis Method	DF	MDL	PQL	Results	Unit
Antimony	6020A	1	0.13	1.1	0.468	mg/Kg
Arsenic	6020A	1	0.23	1.1	17.0	mg/Kg
Barium	6020A	1	0.90	1.1	43.3	mg/Kg
Beryllium	6020A	1	0.17	1.1	0.193	mg/Kg
Cadmium	6020A	1	0.090	1.1	0.150	mg/Kg
Cobalt	6020A	1	0.23	1.1	19.5	mg/Kg
Copper	6020A	1	0.18	2.7	60.2	mg/Kg
Molybdenum	6020A	1	0.14	1.1	0.416	mg/Kg
Nickel	6020A	1	1.3	5.4	55.8	mg/Kg
Chromium	6020A	25	0.52	5.4	92.1	mg/Kg
Lead	6020A	25	0.29	5.4	121	mg/Kg
Vanadium	6020A	25	1.5	140	144	mg/Kg
Zinc	6020A	25	3.8	14	99.2	mg/Kg
% Moisture	ASTM D2216-90	1	0.050	0.050	5.57	%
Dry Weight Factor	ASTM D2216-90	1			1.06	%

SS-16 (2.5-3) 1707122-023

Parameters:	Analysis Method	DF	MDL	PQL	Results	Unit
Arsenic	6020A	1	0.23	1.1	14.9	mg/Kg
% Moisture	ASTM D2216-90	1	0.050	0.050	10.8	%
Dry Weight Factor	ASTM D2216-90	1			1.12	%

Torrent LABORATORY, INC.

Sample Result Summary

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date Received: 07/19/17
Date Reported: 07/27/17

SS-17 (0-0.5) 1707122-024

Parameters:	Analysis Method	DF	MDL	PQL	Results	Unit
Antimony	6020A	1	0.13	1.1	0.350	mg/Kg
Arsenic	6020A	1	0.23	1.1	13.3	mg/Kg
Beryllium	6020A	1	0.17	1.1	0.188	mg/Kg
Cadmium	6020A	1	0.091	1.1	0.170	mg/Kg
Chromium	6020A	1	0.11	1.1	50.1	mg/Kg
Cobalt	6020A	1	0.23	1.1	10.0	mg/Kg
Copper	6020A	1	0.19	2.7	34.9	mg/Kg
Lead	6020A	1	0.058	1.1	35.1	mg/Kg
Molybdenum	6020A	1	0.14	1.1	0.770	mg/Kg
Nickel	6020A	1	1.4	5.5	20.7	mg/Kg
Vanadium	6020A	1	0.31	27	50.5	mg/Kg
Barium	6020A	10	1.8	2.2	103	mg/Kg
Zinc	6020A	10	1.5	5.5	76.8	mg/Kg
% Moisture	ASTM D2216-90	1	0.050	0.050	1.27	%
Dry Weight Factor	ASTM D2216-90	1			1.01	%

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-101 (0-0.5)	**Lab Sample ID:**	1707122-001A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 13:01		
SDG:			

Prep Method:	7471BP	**Prep Batch Date/Time:**	7/21/17	5:30:00PM
Prep Batch ID:	8348	**Prep Analyst:**	BJAY	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Mercury	SW7471B	1	0.12	0.71	ND		mg/Kg	07/25/17	11:10	BJAY	425634

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-101 (0-0.5)	**Lab Sample ID:**	1707122-001A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 13:01		
SDG:			

Prep Method:	6020S-P	**Prep Batch Date/Time:**	7/21/17	10:15:00AM
Prep Batch ID:	8321	**Prep Analyst:**	BJAY	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
The results shown below are reported using their MDL.											
Antimony	6020A	1	0.12	1.0	ND		mg/Kg	07/21/17	15:37	ERR	425540
Arsenic	6020A	1	0.21	1.0	**3.35**		mg/Kg	07/21/17	15:37	ERR	425540
Barium	6020A	1	0.84	1.0	**24.8**		mg/Kg	07/21/17	15:37	ERR	425540
Beryllium	6020A	1	0.16	1.0	ND		mg/Kg	07/21/17	15:37	ERR	425540
Cadmium	6020A	1	0.084	1.0	ND		mg/Kg	07/21/17	15:37	ERR	425540
Chromium	6020A	1	0.097	1.0	**19.1**		mg/Kg	07/21/17	15:37	ERR	425540
Cobalt	6020A	1	0.21	1.0	**4.19**		mg/Kg	07/21/17	15:37	ERR	425540
Copper	6020A	1	0.17	2.5	**13.3**		mg/Kg	07/21/17	15:37	ERR	425540
Lead	6020A	1	0.054	1.0	**5.33**		mg/Kg	07/21/17	15:37	ERR	425540
Molybdenum	6020A	1	0.13	1.0	ND		mg/Kg	07/21/17	15:37	ERR	425540
Nickel	6020A	1	1.2	5.0	**9.80**		mg/Kg	07/21/17	15:37	ERR	425540
Selenium	6020A	1	0.035	2.5	ND		mg/Kg	07/21/17	15:37	ERR	425540
Thallium	6020A	1	1.00	5.0	ND		mg/Kg	07/21/17	15:37	ERR	425540
Vanadium	6020A	1	0.28	25	**21.3**	J	mg/Kg	07/21/17	15:37	ERR	425540
Zinc	6020A	1	0.70	2.5	**20.3**		mg/Kg	07/21/17	15:37	ERR	425540

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-101 (0-0.5)	**Lab Sample ID:**	1707122-001A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 13:01		
SDG:			

Prep Method:	6020S-P	**Prep Batch Date/Time:**	7/21/17	10:15:00AM
Prep Batch ID:	8321	**Prep Analyst:**	BJAY	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
The results shown below are reported using their MDL.											
Silver	6020A	1	0.14	1.4	ND		mg/Kg	07/25/17	12:02	ERR	425658

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-101 (0-0.5)	**Lab Sample ID:**	1707122-001A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 13:01		
SDG:			

Prep Method:	3546_OCP	**Prep Batch Date/Time:**	7/22/17 2:15:00PM
Prep Batch ID:	8352	**Prep Analyst:**	SNARASIMHAN

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
The results shown below are reported using their MDL.											
alpha-BHC	SW8081B	3	0.54	8.5	ND		ug/Kg	07/26/17	22:14	LA	425689
gamma-BHC (Lindane)	SW8081B	3	0.68	8.5	ND		ug/Kg	07/26/17	22:14	LA	425689
beta-BHC	SW8081B	3	1.3	8.5	ND		ug/Kg	07/26/17	22:14	LA	425689
delta-BHC	SW8081B	3	0.66	8.5	ND		ug/Kg	07/26/17	22:14	LA	425689
Heptachlor	SW8081B	3	0.45	8.5	ND		ug/Kg	07/26/17	22:14	LA	425689
Aldrin	SW8081B	3	0.83	8.5	ND		ug/Kg	07/26/17	22:14	LA	425689
Heptachlor Epoxide	SW8081B	3	0.33	8.5	ND		ug/Kg	07/26/17	22:14	LA	425689
gamma-Chlordane	SW8081B	3	0.69	8.5	ND		ug/Kg	07/26/17	22:14	LA	425689
alpha-Chlordane	SW8081B	3	0.74	8.5	ND		ug/Kg	07/26/17	22:14	LA	425689
4,4-DDE	SW8081B	3	0.83	8.5	**37.8**		ug/Kg	07/26/17	22:14	LA	425689
Endosulfan I	SW8081B	3	0.78	8.5	ND		ug/Kg	07/26/17	22:14	LA	425689
Dieldrin	SW8081B	3	0.63	8.5	ND		ug/Kg	07/26/17	22:14	LA	425689
Endrin	SW8081B	3	0.80	8.5	ND		ug/Kg	07/26/17	22:14	LA	425689
4,4-DDD	SW8081B	3	2.4	8.5	ND		ug/Kg	07/26/17	22:14	LA	425689
Endosulfan II	SW8081B	3	2.5	8.5	ND		ug/Kg	07/26/17	22:14	LA	425689
4,4-DDT	SW8081B	3	0.55	8.5	**3.01**	J	ug/Kg	07/26/17	22:14	LA	425689
Endrin Aldehyde	SW8081B	3	0.64	8.5	ND		ug/Kg	07/26/17	22:14	LA	425689
Methoxychlor	SW8081B	3	0.85	8.5	ND		ug/Kg	07/26/17	22:14	LA	425689
Endosulfan Sulfate	SW8081B	3	0.50	8.5	ND		ug/Kg	07/26/17	22:14	LA	425689
Endrin Ketone	SW8081B	3	0.40	8.5	ND		ug/Kg	07/26/17	22:14	LA	425689
Chlordane	SW8081B	3	9.0	85	ND		ug/Kg	07/26/17	22:14	LA	425689
Toxaphene	SW8081B	3	36	210	ND		ug/Kg	07/26/17	22:14	LA	425689
			Acceptance Limits								
TCMX (S)	SW8081B		48 - 125		**76.4**		%	07/26/17	22:14	LA	425689
DCBP (S)	SW8081B		38 - 135		**87.0**		%	07/26/17	22:14	LA	425689

NOTE: Sample diluted due to nature of the matrix (dark, viscous extract)

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-101 (0-0.5)	**Lab Sample ID:**	1707122-001A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 13:01		
SDG:			

Prep Method:	% Water-P	**Prep Batch Date/Time:**	7/21/17	6:15:00PM
Prep Batch ID:	8446	**Prep Analyst:**	PHUFANO	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
% Moisture	ASTM D2216-90	1	0.050	0.050	**29.5**		%	07/21/17	18:15	PH	425657
Dry Weight Factor	ASTM D2216-90	1			**1.42**		-	07/21/17	18:15	PH	425657

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-102 (0-0.5)	**Lab Sample ID:**	1707122-002A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 13:02		
SDG:			

Prep Method:	7471BP	**Prep Batch Date/Time:**	7/21/17	5:30:00PM
Prep Batch ID:	8348	**Prep Analyst:**	BJAY	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Mercury	SW7471B	1	0.091	0.55	ND		mg/Kg	07/25/17	11:16	BJAY	425634

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-102 (0-0.5)	**Lab Sample ID:**	1707122-002A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 13:02		
SDG:			

Prep Method:	6020S-P	**Prep Batch Date/Time:**	7/21/17	10:15:00AM
Prep Batch ID:	8321	**Prep Analyst:**	BJAY	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
The results shown below are reported using their MDL.											
Antimony	6020A	1	0.12	1.0	**0.356**	J	mg/Kg	07/21/17	16:02	ERR	425540
Arsenic	6020A	1	0.21	1.0	**8.49**		mg/Kg	07/21/17	16:02	ERR	425540
Beryllium	6020A	1	0.16	1.0	**0.172**	J	mg/Kg	07/21/17	16:02	ERR	425540
Cadmium	6020A	1	0.084	1.0	**0.165**	J	mg/Kg	07/21/17	16:02	ERR	425540
Chromium	6020A	1	0.097	1.0	**23.7**		mg/Kg	07/21/17	16:02	ERR	425540
Cobalt	6020A	1	0.21	1.0	**6.07**		mg/Kg	07/21/17	16:02	ERR	425540
Copper	6020A	1	0.17	2.5	**22.9**		mg/Kg	07/21/17	16:02	ERR	425540
Lead	6020A	1	0.054	1.0	**38.9**		mg/Kg	07/21/17	16:02	ERR	425540
Molybdenum	6020A	1	0.13	1.0	**0.846**	J	mg/Kg	07/21/17	16:02	ERR	425540
Nickel	6020A	1	1.2	5.0	**13.8**		mg/Kg	07/21/17	16:02	ERR	425540
Selenium	6020A	1	0.035	2.5	ND		mg/Kg	07/21/17	16:02	ERR	425540
Thallium	6020A	1	1.00	5.0	ND		mg/Kg	07/21/17	16:02	ERR	425540
Vanadium	6020A	1	0.28	25	**40.7**		mg/Kg	07/21/17	16:02	ERR	425540

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-102 (0-0.5)	**Lab Sample ID:**	1707122-002A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 13:02		
SDG:			

Prep Method:	6020S-P	**Prep Batch Date/Time:**	7/21/17	10:15:00AM
Prep Batch ID:	8321	**Prep Analyst:**	BJAY	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
The results shown below are reported using their MDL.											
Silver	6020A	1	0.11	1.1	**0.250**	J	mg/Kg	07/25/17	12:16	ERR	425658

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-102 (0-0.5)	**Lab Sample ID:**	1707122-002A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 13:02		
SDG:			

Prep Method:	6020S-P	**Prep Batch Date/Time:**	7/21/17	10:15:00AM
Prep Batch ID:	8321	**Prep Analyst:**	BJAY	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Barium	6020A	10	1.7	2.0	**87.5**		mg/Kg	07/21/17	19:57	ERR	425540
Zinc	6020A	10	1.4	5.0	**112**		mg/Kg	07/21/17	19:57	ERR	425540

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-102 (0-0.5)	**Lab Sample ID:**	1707122-002A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 13:02		
SDG:			

Prep Method:	3546_PCB	**Prep Batch Date/Time:**	7/21/17 12:17:00PM
Prep Batch ID:	8323	**Prep Analyst:**	SNARASIMHAN

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
The results shown below are reported using their MDL.											
Aroclor1016	SW8082A	1	57	110	ND		ug/Kg	07/24/17	21:47	mk	425625
Aroclor1221	SW8082A	1	5.4	110	ND		ug/Kg	07/24/17	21:47	mk	425625
Aroclor1232	SW8082A	1	18	110	ND		ug/Kg	07/24/17	21:47	mk	425625
Aroclor1242	SW8082A	1	3.2	110	ND		ug/Kg	07/24/17	21:47	mk	425625
Aroclor1248	SW8082A	1	2.2	110	ND		ug/Kg	07/24/17	21:47	mk	425625
Aroclor1254	SW8082A	1	2.2	110	ND		ug/Kg	07/24/17	21:47	mk	425625
Aroclor1260	SW8082A	1	39	110	ND		ug/Kg	07/24/17	21:47	mk	425625
			Acceptance Limits								
TCMX (S)	SW8082A		48 - 125		**87.0**		%	07/24/17	21:47	mk	425625
DCBP (S)	SW8082A		48 - 135		**78.0**		%	07/24/17	21:47	mk	425625

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-102 (0-0.5)	**Lab Sample ID:**	1707122-002A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 13:02		
SDG:			

Prep Method:	3546_OCP	**Prep Batch Date/Time:**	7/22/17 2:15:00PM
Prep Batch ID:	8352	**Prep Analyst:**	SNARASIMHAN

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
The results shown below are reported using their MDL.											
alpha-BHC	SW8081B	3	0.42	6.5	ND		ug/Kg	07/26/17	22:30	LA	425689
gamma-BHC (Lindane)	SW8081B	3	0.52	6.5	ND		ug/Kg	07/26/17	22:30	LA	425689
beta-BHC	SW8081B	3	1.0	6.5	ND		ug/Kg	07/26/17	22:30	LA	425689
delta-BHC	SW8081B	3	0.51	6.5	ND		ug/Kg	07/26/17	22:30	LA	425689
Heptachlor	SW8081B	3	0.34	6.5	ND		ug/Kg	07/26/17	22:30	LA	425689
Aldrin	SW8081B	3	0.64	6.5	ND		ug/Kg	07/26/17	22:30	LA	425689
Heptachlor Epoxide	SW8081B	3	0.26	6.5	ND		ug/Kg	07/26/17	22:30	LA	425689
gamma-Chlordane	SW8081B	3	0.53	6.5	ND		ug/Kg	07/26/17	22:30	LA	425689
alpha-Chlordane	SW8081B	3	0.57	6.5	ND		ug/Kg	07/26/17	22:30	LA	425689
4,4-DDE	SW8081B	3	0.63	6.5	**45.2**		ug/Kg	07/26/17	22:30	LA	425689
Endosulfan I	SW8081B	3	0.60	6.5	ND		ug/Kg	07/26/17	22:30	LA	425689
Dieldrin	SW8081B	3	0.48	6.5	ND		ug/Kg	07/26/17	22:30	LA	425689
Endrin	SW8081B	3	0.61	6.5	ND		ug/Kg	07/26/17	22:30	LA	425689
4,4-DDD	SW8081B	3	1.8	6.5	ND		ug/Kg	07/26/17	22:30	LA	425689
Endosulfan II	SW8081B	3	1.9	6.5	ND		ug/Kg	07/26/17	22:30	LA	425689
4,4-DDT	SW8081B	3	0.42	6.5	**12.5**		ug/Kg	07/26/17	22:30	LA	425689
Endrin Aldehyde	SW8081B	3	0.49	6.5	ND		ug/Kg	07/26/17	22:30	LA	425689
Methoxychlor	SW8081B	3	0.65	6.5	ND		ug/Kg	07/26/17	22:30	LA	425689
Endosulfan Sulfate	SW8081B	3	0.38	6.5	ND		ug/Kg	07/26/17	22:30	LA	425689
Endrin Ketone	SW8081B	3	0.31	6.5	ND		ug/Kg	07/26/17	22:30	LA	425689
Chlordane	SW8081B	3	6.9	65	ND		ug/Kg	07/26/17	22:30	LA	425689
Toxaphene	SW8081B	3	28	160	ND		ug/Kg	07/26/17	22:30	LA	425689
			Acceptance Limits								
TCMX (S)	SW8081B		48 - 125		**53.9**		%	07/26/17	22:30	LA	425689
DCBP (S)	SW8081B		38 - 135		**60.7**		%	07/26/17	22:30	LA	425689

NOTE: Sample diluted due to nature of the matrix (dark, viscous extract)

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-102 (0-0.5)	**Lab Sample ID:**	1707122-002A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 13:02		
SDG:			

Prep Method:	% Water-P	**Prep Batch Date/Time:**	7/21/17	6:15:00PM
Prep Batch ID:	8446	**Prep Analyst:**	PHUFANO	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
% Moisture	ASTM D2216-90	1	0.050	0.050	**7.89**		%	07/21/17	18:15	PH	425657
Dry Weight Factor	ASTM D2216-90	1			**1.09**		-	07/21/17	18:15	PH	425657

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-1 (0-0.5)	**Lab Sample ID:**	1707122-003A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 14:26		
SDG:			

Prep Method:	7471BP	**Prep Batch Date/Time:**	7/21/17	5:30:00PM
Prep Batch ID:	8348	**Prep Analyst:**	BJAY	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Mercury	SW7471B	1	0.12	0.70	ND		mg/Kg	07/25/17	11:21	BJAY	425634

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-1 (0-0.5)	**Lab Sample ID:**	1707122-003A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 14:26		
SDG:			

Prep Method:	6020S-P	**Prep Batch Date/Time:**	7/21/17	10:15:00AM
Prep Batch ID:	8321	**Prep Analyst:**	BJAY	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
The results shown below are reported using their MDL.											
Antimony	6020A	1	0.12	1.0	**0.165**	J	mg/Kg	07/21/17	16:18	ERR	425540
Arsenic	6020A	1	0.21	1.0	**9.54**		mg/Kg	07/21/17	16:18	ERR	425540
Barium	6020A	1	0.84	1.0	**59.7**		mg/Kg	07/21/17	16:18	ERR	425540
Beryllium	6020A	1	0.16	1.0	ND		mg/Kg	07/21/17	16:18	ERR	425540
Cadmium	6020A	1	0.084	1.0	**0.102**	J	mg/Kg	07/21/17	16:18	ERR	425540
Chromium	6020A	1	0.097	1.0	**28.3**		mg/Kg	07/21/17	16:18	ERR	425540
Cobalt	6020A	1	0.21	1.0	**6.78**		mg/Kg	07/21/17	16:18	ERR	425540
Copper	6020A	1	0.17	2.5	**23.1**		mg/Kg	07/21/17	16:18	ERR	425540
Lead	6020A	1	0.054	1.0	**17.6**		mg/Kg	07/21/17	16:18	ERR	425540
Molybdenum	6020A	1	0.13	1.0	**0.252**	J	mg/Kg	07/21/17	16:18	ERR	425540
Nickel	6020A	1	1.2	5.0	**13.6**		mg/Kg	07/21/17	16:18	ERR	425540
Selenium	6020A	1	0.035	2.5	ND		mg/Kg	07/21/17	16:18	ERR	425540
Thallium	6020A	1	1.00	5.0	ND		mg/Kg	07/21/17	16:18	ERR	425540
Vanadium	6020A	1	0.28	25	**30.5**		mg/Kg	07/21/17	16:18	ERR	425540
Zinc	6020A	1	0.70	2.5	**39.9**		mg/Kg	07/21/17	16:18	ERR	425540

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-1 (0-0.5)	**Lab Sample ID:**	1707122-003A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 14:26		
SDG:			

Prep Method:	6020S-P	**Prep Batch Date/Time:**	7/21/17	10:15:00AM
Prep Batch ID:	8321	**Prep Analyst:**	BJAY	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
The results shown below are reported using their MDL.											
Silver	6020A	1	0.14	1.4	ND		mg/Kg	07/25/17	12:25	ERR	425658

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-1 (0-0.5)	**Lab Sample ID:**	1707122-003A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 14:26		
SDG:			

Prep Method:	% Water-P	**Prep Batch Date/Time:**	7/21/17	6:15:00PM
Prep Batch ID:	8446	**Prep Analyst:**	PHUFANO	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
% Moisture	ASTM D2216-90	1	0.050	0.050	**28.4**		%	07/21/17	18:15	PH	425657
Dry Weight Factor	ASTM D2216-90	1			**1.40**		-	07/21/17	18:15	PH	425657

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-2 (0-0.5)	**Lab Sample ID:**	1707122-004A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 14:23		
SDG:			

Prep Method:	7471BP	**Prep Batch Date/Time:**	7/21/17	5:30:00PM
Prep Batch ID:	8348	**Prep Analyst:**	BJAY	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Mercury	SW7471B	1	0.11	0.67	ND		mg/Kg	07/25/17	11:29	BJAY	425634

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-2 (0-0.5)	**Lab Sample ID:**	1707122-004A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 14:23		
SDG:			

Prep Method:	6020S-P	**Prep Batch Date/Time:**	7/21/17	10:15:00AM
Prep Batch ID:	8321	**Prep Analyst:**	BJAY	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
The results shown below are reported using their MDL.											
Antimony	6020A	1	0.12	1.0	**0.322**	J	mg/Kg	07/25/17	18:00	ERR	425540
Arsenic	6020A	1	0.21	1.0	**12.2**		mg/Kg	07/25/17	18:00	ERR	425540
Beryllium	6020A	1	0.16	1.0	**0.173**	J	mg/Kg	07/25/17	18:00	ERR	425540
Cadmium	6020A	1	0.084	1.0	**0.156**	J	mg/Kg	07/25/17	18:00	ERR	425540
Chromium	6020A	1	0.097	1.0	**45.9**		mg/Kg	07/25/17	18:00	ERR	425540
Cobalt	6020A	1	0.21	1.0	**9.20**		mg/Kg	07/25/17	18:00	ERR	425540
Copper	6020A	1	0.17	2.5	**32.1**		mg/Kg	07/25/17	18:00	ERR	425540
Lead	6020A	1	0.054	1.0	**32.8**		mg/Kg	07/25/17	18:00	ERR	425540
Molybdenum	6020A	1	0.13	1.0	**0.706**	J	mg/Kg	07/25/17	18:00	ERR	425540
Nickel	6020A	1	1.2	5.0	**19.0**		mg/Kg	07/25/17	18:00	ERR	425540
Selenium	6020A	1	0.035	2.5	ND		mg/Kg	07/25/17	18:00	ERR	425540
Thallium	6020A	1	1.00	5.0	ND		mg/Kg	07/25/17	18:00	ERR	425540
Vanadium	6020A	1	0.28	25	**46.4**		mg/Kg	07/25/17	18:00	ERR	425540
Zinc	6020A	1	0.70	2.5	**68.4**		mg/Kg	07/25/17	18:00	ERR	425540

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-2 (0-0.5)	**Lab Sample ID:**	1707122-004A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 14:23		
SDG:			

Prep Method:	6020S-P	**Prep Batch Date/Time:**	7/21/17	10:15:00AM
Prep Batch ID:	8321	**Prep Analyst:**	BJAY	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
The results shown below are reported using their MDL.											
Barium	6020A	1	1.1	1.3	**81.9**		mg/Kg	07/25/17	12:44	ERR	425658
Silver	6020A	1	0.13	1.3	ND		mg/Kg	07/25/17	12:44	ERR	425658

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-2 (0-0.5)	**Lab Sample ID:**	1707122-004A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 14:23		
SDG:			

Prep Method:	% Water-P	**Prep Batch Date/Time:**	7/21/17	6:15:00PM
Prep Batch ID:	8446	**Prep Analyst:**	PHUFANO	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
% Moisture	ASTM D2216-90	1	0.050	0.050	**25.5**		%	07/21/17	18:15	PH	425657
Dry Weight Factor	ASTM D2216-90	1			**1.34**		-	07/21/17	18:15	PH	425657

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-3 (0-0.5)	**Lab Sample ID:**	1707122-005A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 16:18		
SDG:			

Prep Method:	7471BP	**Prep Batch Date/Time:**	7/21/17	5:30:00PM
Prep Batch ID:	8348	**Prep Analyst:**	BJAY	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Mercury	SW7471B	1	0.13	0.79	ND		mg/Kg	07/25/17	11:31	BJAY	425634

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-3 (0-0.5)	**Lab Sample ID:**	1707122-005A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 16:18		
SDG:			

Prep Method:	6020S-P	**Prep Batch Date/Time:**	7/21/17	10:15:00AM
Prep Batch ID:	8321	**Prep Analyst:**	BJAY	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
The results shown below are reported using their MDL.											
Antimony	6020A	1	0.19	1.6	**0.238**	J	mg/Kg	07/21/17	17:00	ERR	425540
Arsenic	6020A	1	0.33	1.6	**16.3**		mg/Kg	07/21/17	17:00	ERR	425540
Barium	6020A	1	1.3	1.6	**76.9**		mg/Kg	07/21/17	17:00	ERR	425540
Beryllium	6020A	1	0.25	1.6	ND		mg/Kg	07/21/17	17:00	ERR	425540
Cadmium	6020A	1	0.13	1.6	ND		mg/Kg	07/21/17	17:00	ERR	425540
Chromium	6020A	1	0.15	1.6	**42.3**		mg/Kg	07/21/17	17:00	ERR	425540
Cobalt	6020A	1	0.33	1.6	**11.0**		mg/Kg	07/21/17	17:00	ERR	425540
Copper	6020A	1	0.27	3.9	**35.4**		mg/Kg	07/21/17	17:00	ERR	425540
Lead	6020A	1	0.084	1.6	**26.6**		mg/Kg	07/21/17	17:00	ERR	425540
Molybdenum	6020A	1	0.20	1.6	**0.462**	J	mg/Kg	07/21/17	17:00	ERR	425540
Nickel	6020A	1	2.0	7.9	**19.9**		mg/Kg	07/21/17	17:00	ERR	425540
Selenium	6020A	1	0.054	3.9	ND		mg/Kg	07/21/17	17:00	ERR	425540
Thallium	6020A	1	1.6	7.9	ND		mg/Kg	07/21/17	17:00	ERR	425540
Vanadium	6020A	1	0.44	39	**50.4**		mg/Kg	07/21/17	17:00	ERR	425540
Zinc	6020A	1	1.1	3.9	**53.4**		mg/Kg	07/21/17	17:00	ERR	425540

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-3 (0-0.5)	**Lab Sample ID:**	1707122-005A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 16:18		
SDG:			

Prep Method:	6020S-P	**Prep Batch Date/Time:**	7/21/17	10:15:00AM
Prep Batch ID:	8321	**Prep Analyst:**	BJAY	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
The results shown below are reported using their MDL.											
Silver	6020A	1	0.15	1.6	ND		mg/Kg	07/25/17	12:48	ERR	425658

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-3 (0-0.5)	**Lab Sample ID:**	1707122-005A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 16:18		
SDG:			

Prep Method:	% Water-P	**Prep Batch Date/Time:**	7/21/17	6:15:00PM
Prep Batch ID:	8446	**Prep Analyst:**	PHUFANO	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
% Moisture	ASTM D2216-90	1	0.050	0.050	**36.5**		%	07/21/17	18:15	PH	425657
Dry Weight Factor	ASTM D2216-90	1			**1.57**		-	07/21/17	18:15	PH	425657

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-4 (0-0.5)	**Lab Sample ID:**	1707122-006A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 13:12		
SDG:			

Prep Method:	7471BP	**Prep Batch Date/Time:**	7/21/17	5:30:00PM
Prep Batch ID:	8348	**Prep Analyst:**	BJAY	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Mercury	SW7471B	1	0.084	0.51	ND		mg/Kg	07/25/17	11:33	BJAY	425634

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-4 (0-0.5)	**Lab Sample ID:**	1707122-006A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 13:12		
SDG:			

Prep Method:	6020S-P	**Prep Batch Date/Time:**	7/21/17	10:15:00AM
Prep Batch ID:	8321	**Prep Analyst:**	BJAY	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
The results shown below are reported using their MDL.											
Antimony	6020A	1	0.12	1.0	**0.220**	J	mg/Kg	07/21/17	17:09	ERR	425540
Arsenic	6020A	1	0.21	1.0	**14.8**		mg/Kg	07/21/17	17:09	ERR	425540
Beryllium	6020A	1	0.16	1.0	**0.164**	J	mg/Kg	07/21/17	17:09	ERR	425540
Cadmium	6020A	1	0.084	1.0	**0.105**	J	mg/Kg	07/21/17	17:09	ERR	425540
Chromium	6020A	1	0.098	1.0	**32.6**		mg/Kg	07/21/17	17:09	ERR	425540
Cobalt	6020A	1	0.21	1.0	**8.47**		mg/Kg	07/21/17	17:09	ERR	425540
Copper	6020A	1	0.17	2.5	**31.9**		mg/Kg	07/21/17	17:09	ERR	425540
Lead	6020A	1	0.054	1.0	**31.0**		mg/Kg	07/21/17	17:09	ERR	425540
Molybdenum	6020A	1	0.13	1.0	**0.373**	J	mg/Kg	07/21/17	17:09	ERR	425540
Nickel	6020A	1	1.3	5.1	**14.4**		mg/Kg	07/21/17	17:09	ERR	425540
Selenium	6020A	1	0.035	2.5	ND		mg/Kg	07/21/17	17:09	ERR	425540
Thallium	6020A	1	1.0	5.1	ND		mg/Kg	07/21/17	17:09	ERR	425540
Vanadium	6020A	1	0.28	25	**36.4**		mg/Kg	07/21/17	17:09	ERR	425540
Zinc	6020A	1	0.71	2.5	**34.7**		mg/Kg	07/21/17	17:09	ERR	425540

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-4 (0-0.5)	**Lab Sample ID:**	1707122-006A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 13:12		
SDG:			

Prep Method:	6020S-P	**Prep Batch Date/Time:**	7/21/17	10:15:00AM
Prep Batch ID:	8321	**Prep Analyst:**	BJAY	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
The results shown below are reported using their MDL.											
Silver	6020A	1	0.099	1.0	**0.406**	J	mg/Kg	07/25/17	12:53	ERR	425658

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-4 (0-0.5)	**Lab Sample ID:**	1707122-006A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 13:12		
SDG:			

Prep Method:	6020S-P	**Prep Batch Date/Time:**	7/21/17	10:15:00AM
Prep Batch ID:	8321	**Prep Analyst:**	BJAY	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Barium	6020A	10	1.7	2.0	**72.3**		mg/Kg	07/21/17	20:13	ERR	425540

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-4 (0-0.5)	**Lab Sample ID:**	1707122-006A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 13:12		
SDG:			

Prep Method:	% Water-P	**Prep Batch Date/Time:**	7/21/17	6:15:00PM
Prep Batch ID:	8446	**Prep Analyst:**	PHUFANO	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
% Moisture	ASTM D2216-90	1	0.050	0.050	**1.21**		%	07/21/17	18:15	PH	425657
Dry Weight Factor	ASTM D2216-90	1			**1.01**		-	07/21/17	18:15	PH	425657

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-4 (2.5-3)	**Lab Sample ID:**	1707122-007A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 13:17		
SDG:			

Prep Method:	6020S-P	**Prep Batch Date/Time:**	7/20/17	11:40:00AM
Prep Batch ID:	8276	**Prep Analyst:**	BJAY	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Arsenic	6020A	1	0.28	1.3	**16.1**		mg/Kg	07/20/17	17:37	ERR	425519

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-4 (2.5-3)	**Lab Sample ID:**	1707122-007A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 13:17		
SDG:			

Prep Method:	% Water-P	**Prep Batch Date/Time:**	7/21/17	6:15:00PM
Prep Batch ID:	8446	**Prep Analyst:**	PHUFANO	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
% Moisture	ASTM D2216-90	1	0.050	0.050	**25.6**		%	07/21/17	18:15	PH	425657
Dry Weight Factor	ASTM D2216-90	1			**1.34**		-	07/21/17	18:15	PH	425657

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-5 (0-0.5)	**Lab Sample ID:**	1707122-008A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 12:50		
SDG:			

Prep Method:	7471BP	**Prep Batch Date/Time:**	7/21/17	5:30:00PM
Prep Batch ID:	8348	**Prep Analyst:**	BJAY	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Mercury	SW7471B	1	0.084	0.51	ND		mg/Kg	07/25/17	11:35	BJAY	425634

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-5 (0-0.5)	**Lab Sample ID:**	1707122-008A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 12:50		
SDG:			

Prep Method:	6020S-P	**Prep Batch Date/Time:**	7/21/17	10:15:00AM
Prep Batch ID:	8321	**Prep Analyst:**	BJAY	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
The results shown below are reported using their MDL.											
Antimony	6020A	1	0.12	1.0	**0.154**	J	mg/Kg	07/21/17	17:17	ERR	425540
Arsenic	6020A	1	0.21	1.0	**8.60**		mg/Kg	07/21/17	17:17	ERR	425540
Beryllium	6020A	1	0.16	1.0	ND		mg/Kg	07/21/17	17:17	ERR	425540
Cadmium	6020A	1	0.084	1.0	ND		mg/Kg	07/21/17	17:17	ERR	425540
Chromium	6020A	1	0.098	1.0	**22.3**		mg/Kg	07/21/17	17:17	ERR	425540
Cobalt	6020A	1	0.21	1.0	**5.69**		mg/Kg	07/21/17	17:17	ERR	425540
Copper	6020A	1	0.17	2.5	**21.6**		mg/Kg	07/21/17	17:17	ERR	425540
Lead	6020A	1	0.054	1.0	**32.1**		mg/Kg	07/21/17	17:17	ERR	425540
Molybdenum	6020A	1	0.13	1.0	**0.146**	J	mg/Kg	07/21/17	17:17	ERR	425540
Nickel	6020A	1	1.3	5.1	**10.4**		mg/Kg	07/21/17	17:17	ERR	425540
Selenium	6020A	1	0.035	2.5	ND		mg/Kg	07/21/17	17:17	ERR	425540
Thallium	6020A	1	1.0	5.1	ND		mg/Kg	07/21/17	17:17	ERR	425540
Vanadium	6020A	1	0.28	25	**24.3**	J	mg/Kg	07/21/17	17:17	ERR	425540
Zinc	6020A	1	0.71	2.5	**25.2**		mg/Kg	07/21/17	17:17	ERR	425540

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-5 (0-0.5)	**Lab Sample ID:**	1707122-008A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 12:50		
SDG:			

Prep Method:	6020S-P	**Prep Batch Date/Time:**	7/21/17	10:15:00AM
Prep Batch ID:	8321	**Prep Analyst:**	BJAY	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
The results shown below are reported using their MDL.											
Silver	6020A	1	0.099	1.0	ND		mg/Kg	07/25/17	12:58	ERR	425658

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-5 (0-0.5)	**Lab Sample ID:**	1707122-008A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 12:50		
SDG:			

Prep Method:	6020S-P	**Prep Batch Date/Time:**	7/21/17	10:15:00AM
Prep Batch ID:	8321	**Prep Analyst:**	BJAY	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Barium	6020A	10	1.7	2.0	**71.3**		mg/Kg	07/21/17	20:22	ERR	425540

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-5 (0-0.5)	**Lab Sample ID:**	1707122-008A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 12:50		
SDG:			

Prep Method:	% Water-P	**Prep Batch Date/Time:**	7/21/17	6:15:00PM
Prep Batch ID:	8446	**Prep Analyst:**	PHUFANO	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
% Moisture	ASTM D2216-90	1	0.050	0.050	**0.680**		%	07/21/17	18:15	PH	425657
Dry Weight Factor	ASTM D2216-90	1			**1.01**		-	07/21/17	18:15	PH	425657

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-6 (0-0.5)	**Lab Sample ID:**	1707122-009A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 12:14		
SDG:			

Prep Method:	7471BP	**Prep Batch Date/Time:**	7/21/17	5:30:00PM
Prep Batch ID:	8348	**Prep Analyst:**	BJAY	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Mercury	SW7471B	1	0.10	0.63	ND		mg/Kg	07/25/17	11:37	BJAY	425634

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-6 (0-0.5)	**Lab Sample ID:**	1707122-009A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 12:14		
SDG:			

Prep Method:	6020S-P	**Prep Batch Date/Time:**	7/21/17	10:15:00AM
Prep Batch ID:	8321	**Prep Analyst:**	BJAY	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
The results shown below are reported using their MDL.											
Antimony	6020A	1	0.15	1.3	**0.233**	J	mg/Kg	07/21/17	17:26	ERR	425540
Arsenic	6020A	1	0.26	1.3	**11.4**		mg/Kg	07/21/17	17:26	ERR	425540
Beryllium	6020A	1	0.20	1.3	ND		mg/Kg	07/21/17	17:26	ERR	425540
Cadmium	6020A	1	0.10	1.3	**0.147**	J	mg/Kg	07/21/17	17:26	ERR	425540
Chromium	6020A	1	0.12	1.3	**34.3**		mg/Kg	07/21/17	17:26	ERR	425540
Cobalt	6020A	1	0.26	1.3	**8.90**		mg/Kg	07/21/17	17:26	ERR	425540
Copper	6020A	1	0.21	3.1	**29.7**		mg/Kg	07/21/17	17:26	ERR	425540
Lead	6020A	1	0.067	1.3	**31.2**		mg/Kg	07/21/17	17:26	ERR	425540
Molybdenum	6020A	1	0.16	1.3	**0.298**	J	mg/Kg	07/21/17	17:26	ERR	425540
Nickel	6020A	1	1.6	6.3	**18.4**		mg/Kg	07/21/17	17:26	ERR	425540
Selenium	6020A	1	0.043	3.1	ND		mg/Kg	07/21/17	17:26	ERR	425540
Vanadium	6020A	1	0.35	31	**40.8**		mg/Kg	07/21/17	17:26	ERR	425540
Zinc	6020A	1	0.88	3.1	**42.2**		mg/Kg	07/21/17	17:26	ERR	425540

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-6 (0-0.5)	**Lab Sample ID:**	1707122-009A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 12:14		
SDG:			

Prep Method:	6020S-P	**Prep Batch Date/Time:**	7/21/17	10:15:00AM
Prep Batch ID:	8321	**Prep Analyst:**	BJAY	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
The results shown below are reported using their MDL.											
Silver	6020A	1	0.12	1.3	ND		mg/Kg	07/25/17	13:02	ERR	425658
Thallium	6020A	1	1.2	6.3	ND		mg/Kg	07/25/17	13:02	ERR	425658

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-6 (0-0.5)	**Lab Sample ID:**	1707122-009A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 12:14		
SDG:			

Prep Method:	6020S-P	**Prep Batch Date/Time:**	7/21/17	10:15:00AM
Prep Batch ID:	8321	**Prep Analyst:**	BJAY	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Barium	6020A	10	2.1	2.5	**79.9**		mg/Kg	07/21/17	20:30	ERR	425540

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-6 (0-0.5)	**Lab Sample ID:**	1707122-009A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 12:14		
SDG:			

Prep Method:	% Water-P	**Prep Batch Date/Time:**	7/21/17	6:15:00PM
Prep Batch ID:	8446	**Prep Analyst:**	PHUFANO	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
% Moisture	ASTM D2216-90	1	0.050	0.050	**19.9**		%	07/21/17	18:15	PH	425657
Dry Weight Factor	ASTM D2216-90	1			**1.25**		-	07/21/17	18:15	PH	425657

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-6 (2.5-3)	**Lab Sample ID:**	1707122-010A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 12:20		
SDG:			

Prep Method:	6020S-P	**Prep Batch Date/Time:**	7/20/17	11:40:00AM
Prep Batch ID:	8276	**Prep Analyst:**	BJAY	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Arsenic	6020A	1	0.24	1.1	**6.38**		mg/Kg	07/20/17	17:50	ERR	425519

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-6 (2.5-3)	**Lab Sample ID:**	1707122-010A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 12:20		
SDG:			

Prep Method:	% Water-P	**Prep Batch Date/Time:**	7/21/17	6:15:00PM
Prep Batch ID:	8446	**Prep Analyst:**	PHUFANO	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
% Moisture	ASTM D2216-90	1	0.050	0.050	**12.1**		%	07/21/17	18:15	PH	425657
Dry Weight Factor	ASTM D2216-90	1			**1.14**		-	07/21/17	18:15	PH	425657

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-7 (0-0.5)	**Lab Sample ID:**	1707122-011A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 12:45		
SDG:			

Prep Method:	7471BP	**Prep Batch Date/Time:**	7/21/17	5:30:00PM
Prep Batch ID:	8348	**Prep Analyst:**	BJAY	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Mercury	SW7471B	1	0.10	0.60	ND		mg/Kg	07/25/17	11:39	BJAY	425634

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-7 (0-0.5)	**Lab Sample ID:**	1707122-011A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 12:45		
SDG:			

Prep Method:	6020S-P	**Prep Batch Date/Time:**	7/21/17	10:15:00AM
Prep Batch ID:	8321	**Prep Analyst:**	BJAY	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
The results shown below are reported using their MDL.											
Antimony	6020A	1	0.14	1.2	**0.197**	J	mg/Kg	07/21/17	17:34	ERR	425540
Arsenic	6020A	1	0.25	1.2	**8.04**		mg/Kg	07/21/17	17:34	ERR	425540
Beryllium	6020A	1	0.19	1.2	ND		mg/Kg	07/21/17	17:34	ERR	425540
Cadmium	6020A	1	0.10	1.2	**0.109**	J	mg/Kg	07/21/17	17:34	ERR	425540
Chromium	6020A	1	0.12	1.2	**30.7**		mg/Kg	07/21/17	17:34	ERR	425540
Cobalt	6020A	1	0.25	1.2	**7.79**		mg/Kg	07/21/17	17:34	ERR	425540
Copper	6020A	1	0.20	3.0	**31.1**		mg/Kg	07/21/17	17:34	ERR	425540
Lead	6020A	1	0.064	1.2	**28.0**		mg/Kg	07/21/17	17:34	ERR	425540
Molybdenum	6020A	1	0.16	1.2	**0.250**	J	mg/Kg	07/21/17	17:34	ERR	425540
Nickel	6020A	1	1.5	6.0	**14.5**		mg/Kg	07/21/17	17:34	ERR	425540
Selenium	6020A	1	0.041	3.0	ND		mg/Kg	07/21/17	17:34	ERR	425540
Vanadium	6020A	1	0.34	30	**34.3**		mg/Kg	07/21/17	17:34	ERR	425540
Zinc	6020A	1	0.84	3.0	**34.0**		mg/Kg	07/21/17	17:34	ERR	425540

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-7 (0-0.5)	**Lab Sample ID:**	1707122-011A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 12:45		
SDG:			

Prep Method:	6020S-P	**Prep Batch Date/Time:**	7/21/17	10:15:00AM
Prep Batch ID:	8321	**Prep Analyst:**	BJAY	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
The results shown below are reported using their MDL.											
Silver	6020A	1	0.12	1.2	ND		mg/Kg	07/25/17	13:07	ERR	425658
Thallium	6020A	1	1.2	6.0	ND		mg/Kg	07/25/17	13:07	ERR	425658

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-7 (0-0.5)	**Lab Sample ID:**	1707122-011A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 12:45		
SDG:			

Prep Method:	6020S-P	**Prep Batch Date/Time:**	7/21/17	10:15:00AM
Prep Batch ID:	8321	**Prep Analyst:**	BJAY	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Barium	6020A	10	2.0	2.4	**91.3**		mg/Kg	07/21/17	20:39	ERR	425540

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-7 (0-0.5)	**Lab Sample ID:**	1707122-011A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 12:45		
SDG:			

Prep Method:	% Water-P	**Prep Batch Date/Time:**	7/21/17	6:15:00PM
Prep Batch ID:	8446	**Prep Analyst:**	PHUFANO	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
% Moisture	ASTM D2216-90	1	0.050	0.050	**16.8**		%	07/21/17	18:15	PH	425657
Dry Weight Factor	ASTM D2216-90	1			**1.20**		-	07/21/17	18:15	PH	425657

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-9 (0-0.5)	**Lab Sample ID:**	1707122-012A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 10:07		
SDG:			

Prep Method:	7471BP	**Prep Batch Date/Time:**	7/21/17	5:30:00PM
Prep Batch ID:	8348	**Prep Analyst:**	BJAY	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Mercury	SW7471B	1	0.11	0.68	ND		mg/Kg	07/25/17	11:43	BJAY	425634

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-9 (0-0.5)	**Lab Sample ID:**	1707122-012A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 10:07		
SDG:			

Prep Method:	6020S-P	**Prep Batch Date/Time:**	7/21/17	10:15:00AM
Prep Batch ID:	8321	**Prep Analyst:**	BJAY	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
The results shown below are reported using their MDL.											
Antimony	6020A	1	0.16	1.4	**0.167**	J	mg/Kg	07/21/17	17:51	ERR	425540
Arsenic	6020A	1	0.28	1.4	**13.5**		mg/Kg	07/21/17	17:51	ERR	425540
Beryllium	6020A	1	0.22	1.4	ND		mg/Kg	07/21/17	17:51	ERR	425540
Cadmium	6020A	1	0.11	1.4	**0.124**	J	mg/Kg	07/21/17	17:51	ERR	425540
Chromium	6020A	1	0.13	1.4	**34.1**		mg/Kg	07/21/17	17:51	ERR	425540
Cobalt	6020A	1	0.28	1.4	**8.98**		mg/Kg	07/21/17	17:51	ERR	425540
Copper	6020A	1	0.23	3.4	**44.2**		mg/Kg	07/21/17	17:51	ERR	425540
Lead	6020A	1	0.072	1.4	**56.0**		mg/Kg	07/21/17	17:51	ERR	425540
Molybdenum	6020A	1	0.18	1.4	**0.265**	J	mg/Kg	07/21/17	17:51	ERR	425540
Nickel	6020A	1	1.7	6.8	**17.0**		mg/Kg	07/21/17	17:51	ERR	425540
Selenium	6020A	1	0.047	3.4	ND		mg/Kg	07/21/17	17:51	ERR	425540
Vanadium	6020A	1	0.38	34	**37.9**		mg/Kg	07/21/17	17:51	ERR	425540
Zinc	6020A	1	0.95	3.4	**42.0**		mg/Kg	07/21/17	17:51	ERR	425540

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-9 (0-0.5)	**Lab Sample ID:**	1707122-012A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 10:07		
SDG:			

Prep Method:	6020S-P	**Prep Batch Date/Time:**	7/21/17	10:15:00AM
Prep Batch ID:	8321	**Prep Analyst:**	BJAY	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
The results shown below are reported using their MDL.											
Silver	6020A	1	0.13	1.4	ND		mg/Kg	07/25/17	13:16	ERR	425658
Thallium	6020A	1	1.3	6.8	ND		mg/Kg	07/25/17	13:16	ERR	425658

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-9 (0-0.5)	**Lab Sample ID:**	1707122-012A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 10:07		
SDG:			

Prep Method:	6020S-P	**Prep Batch Date/Time:**	7/21/17	10:15:00AM
Prep Batch ID:	8321	**Prep Analyst:**	BJAY	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Barium	6020A	10	2.3	2.7	**115**		mg/Kg	07/21/17	20:47	ERR	425540

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-9 (0-0.5)	**Lab Sample ID:**	1707122-012A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 10:07		
SDG:			

Prep Method:	% Water-P	**Prep Batch Date/Time:**	7/21/17	6:15:00PM
Prep Batch ID:	8446	**Prep Analyst:**	PHUFANO	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
% Moisture	ASTM D2216-90	1	0.050	0.050	**26.1**		%	07/21/17	18:15	PH	425657
Dry Weight Factor	ASTM D2216-90	1			**1.35**		-	07/21/17	18:15	PH	425657

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-8 (0-0.5)	**Lab Sample ID:**	1707122-013A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 10:54		
SDG:			

Prep Method:	7471BP	**Prep Batch Date/Time:**	7/21/17	5:30:00PM
Prep Batch ID:	8348	**Prep Analyst:**	BJAY	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Mercury	SW7471B	1	0.087	0.52	ND		mg/Kg	07/25/17	11:47	BJAY	425634

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-8 (0-0.5)	**Lab Sample ID:**	1707122-013A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 10:54		
SDG:			

Prep Method:	6020S-P	**Prep Batch Date/Time:**	7/21/17	10:15:00AM
Prep Batch ID:	8321	**Prep Analyst:**	BJAY	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
The results shown below are reported using their MDL.											
Antimony	6020A	1	0.13	1.0	**0.186**	J	mg/Kg	07/21/17	18:08	ERR	425540
Arsenic	6020A	1	0.22	1.0	**9.79**		mg/Kg	07/21/17	18:08	ERR	425540
Beryllium	6020A	1	0.17	1.0	ND		mg/Kg	07/21/17	18:08	ERR	425540
Cadmium	6020A	1	0.087	1.0	**0.0879**	J	mg/Kg	07/21/17	18:08	ERR	425540
Chromium	6020A	1	0.10	1.0	**26.5**		mg/Kg	07/21/17	18:08	ERR	425540
Cobalt	6020A	1	0.22	1.0	**7.16**		mg/Kg	07/21/17	18:08	ERR	425540
Copper	6020A	1	0.18	2.6	**31.1**		mg/Kg	07/21/17	18:08	ERR	425540
Lead	6020A	1	0.056	1.0	**42.4**		mg/Kg	07/21/17	18:08	ERR	425540
Molybdenum	6020A	1	0.14	1.0	**0.182**	J	mg/Kg	07/21/17	18:08	ERR	425540
Nickel	6020A	1	1.3	5.2	**12.7**		mg/Kg	07/21/17	18:08	ERR	425540
Selenium	6020A	1	0.036	2.6	ND		mg/Kg	07/21/17	18:08	ERR	425540
Vanadium	6020A	1	0.29	26	**27.9**		mg/Kg	07/21/17	18:08	ERR	425540
Zinc	6020A	1	0.73	2.6	**29.0**		mg/Kg	07/21/17	18:08	ERR	425540

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-8 (0-0.5)	**Lab Sample ID:**	1707122-013A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 10:54		
SDG:			

Prep Method:	6020S-P	**Prep Batch Date/Time:**	7/21/17	10:15:00AM
Prep Batch ID:	8321	**Prep Analyst:**	BJAY	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
The results shown below are reported using their MDL.											
Silver	6020A	1	0.10	1.0	ND		mg/Kg	07/25/17	13:26	ERR	425658
Thallium	6020A	1	1.0	5.2	ND		mg/Kg	07/25/17	13:26	ERR	425658

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-8 (0-0.5)	**Lab Sample ID:**	1707122-013A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 10:54		
SDG:			

Prep Method:	6020S-P	**Prep Batch Date/Time:**	7/21/17	10:15:00AM
Prep Batch ID:	8321	**Prep Analyst:**	BJAY	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Barium	6020A	10	1.7	2.1	**90.7**		mg/Kg	07/21/17	20:55	ERR	425540

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-8 (0-0.5)	**Lab Sample ID:**	1707122-013A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 10:54		
SDG:			

Prep Method:	% Water-P	**Prep Batch Date/Time:**	7/21/17	6:15:00PM
Prep Batch ID:	8446	**Prep Analyst:**	PHUFANO	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
% Moisture	ASTM D2216-90	1	0.050	0.050	**3.84**		%	07/21/17	18:15	PH	425657
Dry Weight Factor	ASTM D2216-90	1			**1.04**		-	07/21/17	18:15	PH	425657

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-8 (2.5-3)	**Lab Sample ID:**	1707122-014A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 10:58		
SDG:			

Prep Method:	6020S-P	**Prep Batch Date/Time:**	7/20/17	11:40:00AM
Prep Batch ID:	8276	**Prep Analyst:**	BJAY	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Arsenic	6020A	1	0.26	1.2	**5.70**		mg/Kg	07/20/17	17:55	ERR	425519

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-8 (2.5-3)	**Lab Sample ID:**	1707122-014A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 10:58		
SDG:			

Prep Method:	% Water-P	**Prep Batch Date/Time:**	7/21/17	6:15:00PM
Prep Batch ID:	8446	**Prep Analyst:**	PHUFANO	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
% Moisture	ASTM D2216-90	1	0.050	0.050	**19.2**		%	07/21/17	18:15	PH	425657
Dry Weight Factor	ASTM D2216-90	1			**1.24**		-	07/21/17	18:15	PH	425657

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-10 (0-0.5)	**Lab Sample ID:**	1707122-015A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 9:55		
SDG:			

Prep Method:	7471BP	**Prep Batch Date/Time:**	7/21/17	5:30:00PM
Prep Batch ID:	8348	**Prep Analyst:**	BJAY	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Mercury	SW7471B	1	0.084	0.51	ND		mg/Kg	07/25/17	11:53	BJAY	425634

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-10 (0-0.5)	**Lab Sample ID:**	1707122-015A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 9:55		
SDG:			

Prep Method:	6020S-P	**Prep Batch Date/Time:**	7/21/17	10:15:00AM
Prep Batch ID:	8321	**Prep Analyst:**	BJAY	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
The results shown below are reported using their MDL.											
Antimony	6020A	1	0.12	1.0	**0.163**	J	mg/Kg	07/21/17	18:33	ERR	425540
Arsenic	6020A	1	0.21	1.0	**8.56**		mg/Kg	07/21/17	18:33	ERR	425540
Beryllium	6020A	1	0.16	1.0	**0.189**	J	mg/Kg	07/21/17	18:33	ERR	425540
Cadmium	6020A	1	0.084	1.0	**0.0985**	J	mg/Kg	07/21/17	18:33	ERR	425540
Cobalt	6020A	1	0.21	1.0	**10.8**		mg/Kg	07/21/17	18:33	ERR	425540
Copper	6020A	1	0.17	2.5	**38.8**		mg/Kg	07/21/17	18:33	ERR	425540
Lead	6020A	1	0.054	1.0	**24.2**		mg/Kg	07/21/17	18:33	ERR	425540
Molybdenum	6020A	1	0.13	1.0	**0.267**	J	mg/Kg	07/21/17	18:33	ERR	425540
Nickel	6020A	1	1.3	5.1	**19.4**		mg/Kg	07/21/17	18:33	ERR	425540
Selenium	6020A	1	0.035	2.5	ND		mg/Kg	07/21/17	18:33	ERR	425540
Vanadium	6020A	1	0.28	25	**48.5**		mg/Kg	07/21/17	18:33	ERR	425540
Zinc	6020A	1	0.71	2.5	**44.1**		mg/Kg	07/21/17	18:33	ERR	425540

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-10 (0-0.5)	**Lab Sample ID:**	1707122-015A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 9:55		
SDG:			

Prep Method:	6020S-P	**Prep Batch Date/Time:**	7/21/17	10:15:00AM
Prep Batch ID:	8321	**Prep Analyst:**	BJAY	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
The results shown below are reported using their MDL.											
Chromium	6020A	1	0.098	1.0	**40.5**		mg/Kg	07/25/17	13:40	ERR	425658
Silver	6020A	1	0.099	1.0	ND		mg/Kg	07/25/17	13:40	ERR	425658
Thallium	6020A	1	1.0	5.1	ND		mg/Kg	07/25/17	13:40	ERR	425658

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-10 (0-0.5)	**Lab Sample ID:**	1707122-015A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 9:55		
SDG:			

Prep Method:	6020S-P	**Prep Batch Date/Time:**	7/21/17	10:15:00AM
Prep Batch ID:	8321	**Prep Analyst:**	BJAY	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Barium	6020A	10	1.7	2.0	**114**		mg/Kg	07/21/17	21:04	ERR	425540

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-10 (0-0.5)	**Lab Sample ID:**	1707122-015A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 9:55		
SDG:			

Prep Method:	% Water-P	**Prep Batch Date/Time:**	7/21/17	6:15:00PM
Prep Batch ID:	8446	**Prep Analyst:**	PHUFANO	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
% Moisture	ASTM D2216-90	1	0.050	0.050	**1.12**		%	07/21/17	18:15	PH	425657
Dry Weight Factor	ASTM D2216-90	1			**1.01**		-	07/21/17	18:15	PH	425657

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-11 (0-0.5)	**Lab Sample ID:**	1707122-016A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 8:55		
SDG:			

Prep Method:	7471BP	**Prep Batch Date/Time:**	7/21/17	5:30:00PM
Prep Batch ID:	8348	**Prep Analyst:**	BJAY	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Mercury	SW7471B	1	0.084	0.51	ND		mg/Kg	07/25/17	11:55	BJAY	425634

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-11 (0-0.5)	**Lab Sample ID:**	1707122-016A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 8:55		
SDG:			

Prep Method:	6020S-P	**Prep Batch Date/Time:**	7/21/17	10:15:00AM
Prep Batch ID:	8321	**Prep Analyst:**	BJAY	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
The results shown below are reported using their MDL.											
Antimony	6020A	1	0.12	1.0	**0.285**	J	mg/Kg	07/21/17	18:41	ERR	425540
Arsenic	6020A	1	0.21	1.0	**8.80**		mg/Kg	07/21/17	18:41	ERR	425540
Beryllium	6020A	1	0.16	1.0	**0.164**	J	mg/Kg	07/21/17	18:41	ERR	425540
Cadmium	6020A	1	0.084	1.0	**0.166**	J	mg/Kg	07/21/17	18:41	ERR	425540
Cobalt	6020A	1	0.21	1.0	**7.14**		mg/Kg	07/21/17	18:41	ERR	425540
Copper	6020A	1	0.17	2.5	**18.5**		mg/Kg	07/21/17	18:41	ERR	425540
Lead	6020A	1	0.054	1.0	**21.1**		mg/Kg	07/21/17	18:41	ERR	425540
Molybdenum	6020A	1	0.13	1.0	**0.491**	J	mg/Kg	07/21/17	18:41	ERR	425540
Nickel	6020A	1	1.3	5.1	**14.6**		mg/Kg	07/21/17	18:41	ERR	425540
Selenium	6020A	1	0.035	2.5	ND		mg/Kg	07/21/17	18:41	ERR	425540
Vanadium	6020A	1	0.28	25	**37.0**		mg/Kg	07/21/17	18:41	ERR	425540
Zinc	6020A	1	0.71	2.5	**55.7**		mg/Kg	07/21/17	18:41	ERR	425540

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-11 (0-0.5)	**Lab Sample ID:**	1707122-016A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 8:55		
SDG:			

Prep Method:	6020S-P	**Prep Batch Date/Time:**	7/21/17	10:15:00AM
Prep Batch ID:	8321	**Prep Analyst:**	BJAY	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
The results shown below are reported using their MDL.											
Chromium	6020A	1	0.098	1.0	**24.6**		mg/Kg	07/25/17	13:44	ERR	425658
Silver	6020A	1	0.099	1.0	ND		mg/Kg	07/25/17	13:44	ERR	425658
Thallium	6020A	1	1.0	5.1	ND		mg/Kg	07/25/17	13:44	ERR	425658

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-11 (0-0.5)	**Lab Sample ID:**	1707122-016A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 8:55		
SDG:			

Prep Method:	6020S-P	**Prep Batch Date/Time:**	7/21/17	10:15:00AM
Prep Batch ID:	8321	**Prep Analyst:**	BJAY	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Barium	6020A	10	1.7	2.0	**108**		mg/Kg	07/21/17	21:12	ERR	425540

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-11 (0-0.5)	**Lab Sample ID:**	1707122-016A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 8:55		
SDG:			

Prep Method:	% Water-P	**Prep Batch Date/Time:**	7/21/17	6:15:00PM
Prep Batch ID:	8446	**Prep Analyst:**	PHUFANO	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
% Moisture	ASTM D2216-90	1	0.050	0.050	**1.37**		%	07/21/17	18:15	PH	425657
Dry Weight Factor	ASTM D2216-90	1			**1.01**		-	07/21/17	18:15	PH	425657

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-12 (0-0.5)	**Lab Sample ID:**	1707122-017A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 9:25		
SDG:			

Prep Method:	7471BP	**Prep Batch Date/Time:**	7/21/17	5:30:00PM
Prep Batch ID:	8348	**Prep Analyst:**	BJAY	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Mercury	SW7471B	1	0.10	0.61	ND		mg/Kg	07/25/17	11:57	BJAY	425634

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-12 (0-0.5)	**Lab Sample ID:**	1707122-017A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 9:25		
SDG:			

Prep Method:	6020S-P	**Prep Batch Date/Time:**	7/21/17	10:15:00AM
Prep Batch ID:	8321	**Prep Analyst:**	BJAY	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
The results shown below are reported using their MDL.											
Antimony	6020A	1	0.15	1.2	**0.160**	J	mg/Kg	07/21/17	18:49	ERR	425540
Arsenic	6020A	1	0.25	1.2	**16.6**		mg/Kg	07/21/17	18:49	ERR	425540
Barium	6020A	1	1.0	1.2	**53.5**		mg/Kg	07/21/17	18:49	ERR	425540
Beryllium	6020A	1	0.19	1.2	ND		mg/Kg	07/21/17	18:49	ERR	425540
Cadmium	6020A	1	0.10	1.2	ND		mg/Kg	07/21/17	18:49	ERR	425540
Cobalt	6020A	1	0.25	1.2	**5.64**		mg/Kg	07/21/17	18:49	ERR	425540
Copper	6020A	1	0.21	3.0	**12.7**		mg/Kg	07/21/17	18:49	ERR	425540
Lead	6020A	1	0.065	1.2	**53.1**		mg/Kg	07/21/17	18:49	ERR	425540
Molybdenum	6020A	1	0.16	1.2	ND		mg/Kg	07/21/17	18:49	ERR	425540
Nickel	6020A	1	1.5	6.1	**9.05**		mg/Kg	07/21/17	18:49	ERR	425540
Selenium	6020A	1	0.042	3.0	ND		mg/Kg	07/21/17	18:49	ERR	425540
Vanadium	6020A	1	0.34	30	**21.5**	J	mg/Kg	07/21/17	18:49	ERR	425540
Zinc	6020A	1	0.85	3.0	**21.5**		mg/Kg	07/21/17	18:49	ERR	425540

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-12 (0-0.5)	**Lab Sample ID:**	1707122-017A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 9:25		
SDG:			

Prep Method:	6020S-P	**Prep Batch Date/Time:**	7/21/17	10:15:00AM
Prep Batch ID:	8321	**Prep Analyst:**	BJAY	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
The results shown below are reported using their MDL.											
Chromium	6020A	1	0.12	1.2	**20.5**		mg/Kg	07/25/17	13:49	ERR	425658
Silver	6020A	1	0.12	1.2	ND		mg/Kg	07/25/17	13:49	ERR	425658
Thallium	6020A	1	1.2	6.1	ND		mg/Kg	07/25/17	13:49	ERR	425658

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-12 (0-0.5)	**Lab Sample ID:**	1707122-017A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 9:25		
SDG:			

Prep Method:	% Water-P	**Prep Batch Date/Time:**	7/21/17	6:15:00PM
Prep Batch ID:	8446	**Prep Analyst:**	PHUFANO	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
% Moisture	ASTM D2216-90	1	0.050	0.050	**17.5**		%	07/21/17	18:15	PH	425657
Dry Weight Factor	ASTM D2216-90	1			**1.21**		-	07/21/17	18:15	PH	425657

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-12 (2.5-3)	**Lab Sample ID:**	1707122-018A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 9:30		
SDG:			

Prep Method:	6020S-P	**Prep Batch Date/Time:**	7/20/17	11:40:00AM
Prep Batch ID:	8276	**Prep Analyst:**	BJAY	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Arsenic	6020A	1	0.22	1.1	**4.43**		mg/Kg	07/20/17	17:59	ERR	425519

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-12 (2.5-3)	**Lab Sample ID:**	1707122-018A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 9:30		
SDG:			

Prep Method:	% Water-P	**Prep Batch Date/Time:**	7/21/17	6:15:00PM
Prep Batch ID:	8446	**Prep Analyst:**	PHUFANO	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
% Moisture	ASTM D2216-90	1	0.050	0.050	**6.33**		%	07/21/17	18:15	PH	425657
Dry Weight Factor	ASTM D2216-90	1			**1.07**		-	07/21/17	18:15	PH	425657

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-13 (0-0.5)	**Lab Sample ID:**	1707122-019A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 10:33		
SDG:			

Prep Method:	7471BP	**Prep Batch Date/Time:**	7/21/17	5:10:00PM
Prep Batch ID:	8337	**Prep Analyst:**	BJAY	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Mercury	SW7471B	1	0.083	0.50	ND		mg/Kg	07/25/17	12:05	BJAY	425633

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-13 (0-0.5)	**Lab Sample ID:**	1707122-019A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 10:33		
SDG:			

Prep Method:	6020S-P	**Prep Batch Date/Time:**	7/21/17	4:10:00PM
Prep Batch ID:	8336	**Prep Analyst:**	BJAY	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
The results shown below are reported using their MDL.											
Antimony	6020A	1	0.12	1.0	ND		mg/Kg	07/25/17	16:44	ERR	425557
Arsenic	6020A	1	0.21	1.0	**4.64**		mg/Kg	07/25/17	16:44	ERR	425557
Beryllium	6020A	1	0.16	1.0	ND		mg/Kg	07/25/17	16:44	ERR	425557
Cadmium	6020A	1	0.084	1.0	ND		mg/Kg	07/25/17	16:44	ERR	425557
Chromium	6020A	1	0.097	1.0	**20.9**		mg/Kg	07/25/17	16:44	ERR	425557
Cobalt	6020A	1	0.21	1.0	**5.78**		mg/Kg	07/25/17	16:44	ERR	425557
Copper	6020A	1	0.17	2.5	**18.8**		mg/Kg	07/25/17	16:44	ERR	425557
Lead	6020A	1	0.054	1.0	**13.1**		mg/Kg	07/25/17	16:44	ERR	425557
Molybdenum	6020A	1	0.13	1.0	ND		mg/Kg	07/25/17	16:44	ERR	425557
Nickel	6020A	1	1.2	5.0	**10.0**		mg/Kg	07/25/17	16:44	ERR	425557
Selenium	6020A	1	0.035	2.5	ND		mg/Kg	07/25/17	16:44	ERR	425557
Silver	6020A	1	0.098	1.0	ND		mg/Kg	07/25/17	16:44	ERR	425557
Thallium	6020A	1	1.00	5.0	ND		mg/Kg	07/25/17	16:44	ERR	425557
Vanadium	6020A	1	0.28	25	**25.0**		mg/Kg	07/25/17	16:44	ERR	425557
Zinc	6020A	1	0.70	2.5	**23.1**		mg/Kg	07/25/17	16:44	ERR	425557

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-13 (0-0.5)	**Lab Sample ID:**	1707122-019A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 10:33		
SDG:			

Prep Method:	6020S-P	**Prep Batch Date/Time:**	7/21/17	4:10:00PM
Prep Batch ID:	8336	**Prep Analyst:**	BJAY	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Barium	6020A	10	1.7	2.0	**70.0**		mg/Kg	07/26/17	17:19	ERR	425682

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-13 (0-0.5)	**Lab Sample ID:**	1707122-019A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 10:33		
SDG:			

Prep Method:	% Water-P	**Prep Batch Date/Time:**	7/21/17	6:15:00PM
Prep Batch ID:	8446	**Prep Analyst:**	PHUFANO	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
% Moisture	ASTM D2216-90	1	0.050	0.050	**0.440**		%	07/21/17	18:15	PH	425657
Dry Weight Factor	ASTM D2216-90	1			**1.00**		-	07/21/17	18:15	PH	425657

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-14 (0-0.5)	**Lab Sample ID:**	1707122-020A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 10:46		
SDG:			

Prep Method:	7471BP	**Prep Batch Date/Time:**	7/21/17	5:10:00PM
Prep Batch ID:	8337	**Prep Analyst:**	BJAY	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Mercury	SW7471B	1	0.083	0.50	ND		mg/Kg	07/25/17	12:11	BJAY	425633

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-14 (0-0.5)	**Lab Sample ID:**	1707122-020A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 10:46		
SDG:			

Prep Method:	6020S-P	**Prep Batch Date/Time:**	7/21/17	4:10:00PM
Prep Batch ID:	8336	**Prep Analyst:**	BJAY	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
The results shown below are reported using their MDL.											
Antimony	6020A	1	0.12	1.0	**0.188**	J	mg/Kg	07/25/17	17:10	ERR	425557
Arsenic	6020A	1	0.21	1.0	**6.88**		mg/Kg	07/25/17	17:10	ERR	425557
Beryllium	6020A	1	0.16	1.0	ND		mg/Kg	07/25/17	17:10	ERR	425557
Cadmium	6020A	1	0.084	1.0	**0.115**	J	mg/Kg	07/25/17	17:10	ERR	425557
Chromium	6020A	1	0.097	1.0	**28.6**		mg/Kg	07/25/17	17:10	ERR	425557
Cobalt	6020A	1	0.21	1.0	**6.99**		mg/Kg	07/25/17	17:10	ERR	425557
Copper	6020A	1	0.17	2.5	**28.3**		mg/Kg	07/25/17	17:10	ERR	425557
Lead	6020A	1	0.054	1.0	**30.2**		mg/Kg	07/25/17	17:10	ERR	425557
Molybdenum	6020A	1	0.13	1.0	**0.212**	J	mg/Kg	07/25/17	17:10	ERR	425557
Nickel	6020A	1	1.2	5.0	**12.9**		mg/Kg	07/25/17	17:10	ERR	425557
Selenium	6020A	1	0.035	2.5	ND		mg/Kg	07/25/17	17:10	ERR	425557
Silver	6020A	1	0.098	1.0	ND		mg/Kg	07/25/17	17:10	ERR	425557
Thallium	6020A	1	1.00	5.0	ND		mg/Kg	07/25/17	17:10	ERR	425557
Vanadium	6020A	1	0.28	25	**29.1**		mg/Kg	07/25/17	17:10	ERR	425557
Zinc	6020A	1	0.70	2.5	**33.3**		mg/Kg	07/25/17	17:10	ERR	425557

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-14 (0-0.5)	**Lab Sample ID:**	1707122-020A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 10:46		
SDG:			

Prep Method:	6020S-P	**Prep Batch Date/Time:**	7/21/17	4:10:00PM
Prep Batch ID:	8336	**Prep Analyst:**	BJAY	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Barium	6020A	10	1.7	2.0	**86.1**		mg/Kg	07/26/17	17:24	ERR	425682

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-14 (0-0.5)	**Lab Sample ID:**	1707122-020A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 10:46		
SDG:			

Prep Method:	% Water-P	**Prep Batch Date/Time:**	7/21/17	6:15:00PM
Prep Batch ID:	8446	**Prep Analyst:**	PHUFANO	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
% Moisture	ASTM D2216-90	1	0.050	0.050	**0.440**		%	07/21/17	18:15	PH	425657
Dry Weight Factor	ASTM D2216-90	1			**1.00**		-	07/21/17	18:15	PH	425657

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-15 (0-0.5)	**Lab Sample ID:**	1707122-021A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 10:56		
SDG:			

Prep Method:	7471BP	**Prep Batch Date/Time:**	7/21/17	5:10:00PM
Prep Batch ID:	8337	**Prep Analyst:**	BJAY	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Mercury	SW7471B	1	0.11	0.69	ND		mg/Kg	07/25/17	12:20	BJAY	425633

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-15 (0-0.5)	**Lab Sample ID:**	1707122-021A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 10:56		
SDG:			

Prep Method:	6020S-P	**Prep Batch Date/Time:**	7/21/17	4:10:00PM
Prep Batch ID:	8336	**Prep Analyst:**	BJAY	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
The results shown below are reported using their MDL.											
Antimony	6020A	1	0.18	1.5	**0.462**	J	mg/Kg	07/25/17	17:26	ERR	425557
Arsenic	6020A	1	0.30	1.5	**17.4**		mg/Kg	07/25/17	17:26	ERR	425557
Beryllium	6020A	1	0.23	1.5	**0.326**	J	mg/Kg	07/25/17	17:26	ERR	425557
Cadmium	6020A	1	0.12	1.5	**0.183**	J	mg/Kg	07/25/17	17:26	ERR	425557
Chromium	6020A	1	0.14	1.5	**50.8**		mg/Kg	07/25/17	17:26	ERR	425557
Cobalt	6020A	1	0.31	1.5	**12.7**		mg/Kg	07/25/17	17:26	ERR	425557
Copper	6020A	1	0.25	3.7	**28.4**		mg/Kg	07/25/17	17:26	ERR	425557
Lead	6020A	1	0.078	1.5	**42.9**		mg/Kg	07/25/17	17:26	ERR	425557
Molybdenum	6020A	1	0.19	1.5	**0.668**	J	mg/Kg	07/25/17	17:26	ERR	425557
Nickel	6020A	1	1.8	7.3	**24.1**		mg/Kg	07/25/17	17:26	ERR	425557
Selenium	6020A	1	0.050	3.7	ND		mg/Kg	07/25/17	17:26	ERR	425557
Silver	6020A	1	0.14	1.5	ND		mg/Kg	07/25/17	17:26	ERR	425557
Thallium	6020A	1	1.5	7.3	ND		mg/Kg	07/25/17	17:26	ERR	425557
Vanadium	6020A	1	0.41	37	**61.7**		mg/Kg	07/25/17	17:26	ERR	425557
Zinc	6020A	1	1.0	3.7	**69.7**		mg/Kg	07/25/17	17:26	ERR	425557

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-15 (0-0.5)	**Lab Sample ID:**	1707122-021A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 10:56		
SDG:			

Prep Method:	6020S-P	**Prep Batch Date/Time:**	7/21/17	4:10:00PM
Prep Batch ID:	8336	**Prep Analyst:**	BJAY	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Barium	6020A	10	2.4	2.9	**128**		mg/Kg	07/26/17	17:30	ERR	425682

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-15 (0-0.5)	**Lab Sample ID:**	1707122-021A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 10:56		
SDG:			

Prep Method:	% Water-P	**Prep Batch Date/Time:**	7/21/17	6:45:00PM
Prep Batch ID:	8347	**Prep Analyst:**	PHUFANO	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
% Moisture	ASTM D2216-90	1	0.050	0.050	**27.2**		%	07/21/17	18:45	PH	425559
Dry Weight Factor	ASTM D2216-90	1			**1.37**		-	07/21/17	18:45	PH	425559

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-16 (0-0.5)	**Lab Sample ID:**	1707122-022A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 11:27		
SDG:			

Prep Method:	7471BP	**Prep Batch Date/Time:**	7/21/17	5:10:00PM
Prep Batch ID:	8337	**Prep Analyst:**	BJAY	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Mercury	SW7471B	1	0.088	0.53	ND		mg/Kg	07/25/17	12:22	BJAY	425633

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-16 (0-0.5)	**Lab Sample ID:**	1707122-022A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 11:27		
SDG:			

Prep Method:	6020S-P	**Prep Batch Date/Time:**	7/21/17	4:10:00PM
Prep Batch ID:	8336	**Prep Analyst:**	BJAY	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
The results shown below are reported using their MDL.											
Antimony	6020A	1	0.13	1.1	**0.468**	J	mg/Kg	07/25/17	17:35	ERR	425557
Arsenic	6020A	1	0.23	1.1	**17.0**		mg/Kg	07/25/17	17:35	ERR	425557
Barium	6020A	1	0.90	1.1	**43.3**		mg/Kg	07/25/17	17:35	ERR	425557
Beryllium	6020A	1	0.17	1.1	**0.193**	J	mg/Kg	07/25/17	17:35	ERR	425557
Cadmium	6020A	1	0.090	1.1	**0.150**	J	mg/Kg	07/25/17	17:35	ERR	425557
Cobalt	6020A	1	0.23	1.1	**19.5**		mg/Kg	07/25/17	17:35	ERR	425557
Copper	6020A	1	0.18	2.7	**60.2**		mg/Kg	07/25/17	17:35	ERR	425557
Molybdenum	6020A	1	0.14	1.1	**0.416**	J	mg/Kg	07/25/17	17:35	ERR	425557
Nickel	6020A	1	1.3	5.4	**55.8**		mg/Kg	07/25/17	17:35	ERR	425557
Selenium	6020A	1	0.037	2.7	ND		mg/Kg	07/25/17	17:35	ERR	425557
Silver	6020A	1	0.11	1.1	ND		mg/Kg	07/25/17	17:35	ERR	425557
Thallium	6020A	1	1.1	5.4	ND		mg/Kg	07/25/17	17:35	ERR	425557

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-16 (0-0.5)	**Lab Sample ID:**	1707122-022A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 11:27		
SDG:			

Prep Method:	6020S-P	**Prep Batch Date/Time:**	7/21/17	4:10:00PM
Prep Batch ID:	8336	**Prep Analyst:**	BJAY	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Chromium	6020A	25	0.52	5.4	**92.1**		mg/Kg	07/26/17	17:35	ERR	425682
Lead	6020A	25	0.29	5.4	**121**		mg/Kg	07/26/17	17:35	ERR	425682
Vanadium	6020A	25	1.5	140	**144**		mg/Kg	07/26/17	17:35	ERR	425682
Zinc	6020A	25	3.8	14	**99.2**		mg/Kg	07/26/17	17:35	ERR	425682

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-16 (0-0.5)	**Lab Sample ID:**	1707122-022A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 11:27		
SDG:			

Prep Method:	% Water-P	**Prep Batch Date/Time:**	7/21/17	6:45:00PM
Prep Batch ID:	8347	**Prep Analyst:**	PHUFANO	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
% Moisture	ASTM D2216-90	1	0.050	0.050	**5.57**		%	07/21/17	18:45	PH	425559
Dry Weight Factor	ASTM D2216-90	1			**1.06**		-	07/21/17	18:45	PH	425559

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-16 (2.5-3)	**Lab Sample ID:**	1707122-023A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 11:39		
SDG:			

Prep Method:	6020S-P	**Prep Batch Date/Time:**	7/20/17	11:40:00AM
Prep Batch ID:	8276	**Prep Analyst:**	BJAY	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Arsenic	6020A	1	0.23	1.1	**14.9**		mg/Kg	07/20/17	18:03	ERR	425519

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-16 (2.5-3)	**Lab Sample ID:**	1707122-023A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 11:39		
SDG:			

Prep Method:	% Water-P	**Prep Batch Date/Time:**	7/21/17	6:45:00PM
Prep Batch ID:	8347	**Prep Analyst:**	PHUFANO	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
% Moisture	ASTM D2216-90	1	0.050	0.050	**10.8**		%	07/21/17	18:45	PH	425559
Dry Weight Factor	ASTM D2216-90	1			**1.12**		-	07/21/17	18:45	PH	425559

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-17 (0-0.5)	**Lab Sample ID:**	1707122-024A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 12:53		
SDG:			

Prep Method:	7471BP	**Prep Batch Date/Time:**	7/21/17	5:10:00PM
Prep Batch ID:	8337	**Prep Analyst:**	BJAY	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Mercury	SW7471B	1	0.084	0.51	ND		mg/Kg	07/25/17	12:24	BJAY	425633

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-17 (0-0.5)	**Lab Sample ID:**	1707122-024A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 12:53		
SDG:			

Prep Method:	6020S-P	**Prep Batch Date/Time:**	7/21/17	4:10:00PM
Prep Batch ID:	8336	**Prep Analyst:**	BJAY	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
The results shown below are reported using their MDL.											
Antimony	6020A	1	0.13	1.1	**0.350**	J	mg/Kg	07/25/17	18:00	ERR	425557
Arsenic	6020A	1	0.23	1.1	**13.3**		mg/Kg	07/25/17	18:00	ERR	425557
Beryllium	6020A	1	0.17	1.1	**0.188**	J	mg/Kg	07/25/17	18:00	ERR	425557
Cadmium	6020A	1	0.091	1.1	**0.170**	J	mg/Kg	07/25/17	18:00	ERR	425557
Chromium	6020A	1	0.11	1.1	**50.1**		mg/Kg	07/25/17	18:00	ERR	425557
Cobalt	6020A	1	0.23	1.1	**10.0**		mg/Kg	07/25/17	18:00	ERR	425557
Copper	6020A	1	0.19	2.7	**34.9**		mg/Kg	07/25/17	18:00	ERR	425557
Lead	6020A	1	0.058	1.1	**35.1**		mg/Kg	07/25/17	18:00	ERR	425557
Molybdenum	6020A	1	0.14	1.1	**0.770**	J	mg/Kg	07/25/17	18:00	ERR	425557
Nickel	6020A	1	1.4	5.5	**20.7**		mg/Kg	07/25/17	18:00	ERR	425557
Selenium	6020A	1	0.038	2.7	ND		mg/Kg	07/25/17	18:00	ERR	425557
Silver	6020A	1	0.11	1.1	ND		mg/Kg	07/25/17	18:00	ERR	425557
Thallium	6020A	1	1.1	5.5	ND		mg/Kg	07/25/17	18:00	ERR	425557
Vanadium	6020A	1	0.31	27	**50.5**		mg/Kg	07/25/17	18:00	ERR	425557

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-17 (0-0.5)	**Lab Sample ID:**	1707122-024A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 12:53		
SDG:			

Prep Method:	6020S-P	**Prep Batch Date/Time:**	7/21/17	4:10:00PM
Prep Batch ID:	8336	**Prep Analyst:**	BJAY	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Barium	6020A	10	1.8	2.2	**103**		mg/Kg	07/26/17	17:40	ERR	425682
Zinc	6020A	10	1.5	5.5	**76.8**		mg/Kg	07/26/17	17:40	ERR	425682

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-17 (0-0.5)	**Lab Sample ID:**	1707122-024A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 12:53		
SDG:			

Prep Method:	% Water-P	**Prep Batch Date/Time:**	7/21/17	6:45:00PM
Prep Batch ID:	8347	**Prep Analyst:**	PHUFANO	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
% Moisture	ASTM D2216-90	1	0.050	0.050	**1.27**		%	07/21/17	18:45	PH	425559
Dry Weight Factor	ASTM D2216-90	1			**1.01**		-	07/21/17	18:45	PH	425559

Torrent LABORATORY, INC.

MB Summary Report

Work Order:	1707122	**Prep Method:**	6020S-P	**Prep Date:**	07/20/17	**Prep Batch:**	8276
Matrix:	Soil	**Analytical Method:**	6020A	**Analyzed Date:**	7/20/2017	**Analytical Batch:**	425519
Units:	mg/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier
Arsenic	0.21	1.0	ND	

Work Order:	1707122	**Prep Method:**	6020S-P	**Prep Date:**	07/21/17	**Prep Batch:**	8321
Matrix:	Soil	**Analytical Method:**	6020A	**Analyzed Date:**	7/21/2017	**Analytical Batch:**	425540
Units:	mg/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier
Antimony	0.12	1.0	ND	
Arsenic	0.21	1.0	ND	
Barium	0.84	1.0	ND	
Beryllium	0.16	1.0	ND	
Cadmium	0.084	1.0	ND	
Chromium	0.097	1.0	0.26	J
Cobalt	0.21	1.0	ND	
Copper	0.17	2.5	ND	
Lead	0.054	1.0	ND	
Molybdenum	0.13	1.0	0.19	J
Nickel	1.2	5.0	ND	
Selenium	0.035	2.5	ND	
Thallium	1.00	5.0	ND	
Vanadium	0.28	25	ND	
Zinc	0.70	2.5	ND	

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MB Summary Report

Work Order:	1707122	**Prep Method:**	3546_PCB	**Prep Date:**	07/21/17	**Prep Batch:**	8323
Matrix:	Soil	**Analytical Method:**	SW8082A	**Analyzed Date:**	7/21/2017	**Analytical Batch:**	425546
Units:	ug/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier
Aroclor1016	53	100	ND	
Aroclor1221	5.0	100	ND	
Aroclor1232	17	100	ND	
Aroclor1242	3.0	100	ND	
Aroclor1248	2.0	100	ND	
Aroclor1254	2.0	100	ND	
Aroclor1260	36	100	ND	
TCMX (S)			94.0	
DCBP (S)			99.0	

Work Order:	1707122	**Prep Method:**	6020S-P	**Prep Date:**	07/21/17	**Prep Batch:**	8336
Matrix:	Soil	**Analytical Method:**	6020A	**Analyzed Date:**	7/25/2017	**Analytical Batch:**	425557
Units:	mg/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier
Antimony	0.12	1.0	0.19	J
Arsenic	0.21	1.0	ND	
Barium	0.84	1.0	ND	
Beryllium	0.16	1.0	ND	
Cadmium	0.084	1.0	ND	
Chromium	0.097	1.0	0.17	J
Cobalt	0.21	1.0	ND	
Copper	0.17	2.5	ND	
Lead	0.054	1.0	ND	
Molybdenum	0.13	1.0	0.20	J
Nickel	1.2	5.0	ND	
Selenium	0.035	2.5	ND	
Silver	0.098	1.0	ND	
Thallium	1.00	5.0	ND	
Vanadium	0.28	25	ND	
Zinc	0.70	2.5	ND	

Torrent LABORATORY, INC.

MB Summary Report

Work Order:	1707122	**Prep Method:**	7471BP	**Prep Date:**	07/21/17	**Prep Batch:**	8337
Matrix:	Soil	**Analytical Method:**	SW7471B	**Analyzed Date:**	7/25/2017	**Analytical Batch:**	425633
Units:	mg/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier
Mercury	0.083	0.50	ND	

Work Order:	1707122	**Prep Method:**	% Water-P	**Prep Date:**	07/21/17	**Prep Batch:**	8347
Matrix:	Soil	**Analytical Method:**	ASTM D2216-90	**Analyzed Date:**	7/21/2017	**Analytical Batch:**	425559
Units:	mg/L						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier
% Moisture	0.050	0.050	ND	

Work Order:	1707122	**Prep Method:**	7471BP	**Prep Date:**	07/21/17	**Prep Batch:**	8348
Matrix:	Soil	**Analytical Method:**	SW7471B	**Analyzed Date:**	7/25/2017	**Analytical Batch:**	425634
Units:	mg/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier
Mercury	0.083	0.50	ND	

Torrent LABORATORY, INC.

MB Summary Report

Work Order:	1707122	**Prep Method:**	3546_OCP	**Prep Date:**	07/22/17	**Prep Batch:**	8352
Matrix:	Soil	**Analytical Method:**	SW8081B	**Analyzed Date:**	7/23/2017	**Analytical Batch:**	425641
Units:	ug/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier
alpha-BHC	0.13	2.0	ND	
gamma-BHC (Lindane)	0.16	2.0	ND	
beta-BHC	0.32	2.0	ND	
delta-BHC	0.16	2.0	ND	
Heptachlor	0.11	2.0	ND	
Aldrin	0.20	2.0	ND	
Heptachlor Epoxide	0.078	2.0	ND	
gamma-Chlordane	0.16	2.0	ND	
alpha-Chlordane	0.17	2.0	ND	
4,4-DDE	0.19	2.0	ND	
Endosulfan I	0.18	2.0	ND	
Dieldrin	0.15	2.0	ND	
Endrin	0.19	2.0	ND	
4,4-DDD	0.57	2.0	ND	
Endosulfan II	0.58	2.0	ND	
4,4-DDT	0.13	2.0	ND	
Endrin Aldehyde	0.15	2.0	ND	
Methoxychlor	0.20	2.0	ND	
Endosulfan Sulfate	0.12	2.0	ND	
Endrin Ketone	0.094	2.0	ND	
Chlordane	2.1	20	ND	
Toxaphene	8.5	50	ND	
TCMX (S)			92.9	
DCBP (S)			124	

Work Order:	1707122	**Prep Method:**	% Water-P	**Prep Date:**	07/21/17	**Prep Batch:**	8446
Matrix:	Soil	**Analytical Method:**	ASTM D2216-90	**Analyzed Date:**	7/21/2017	**Analytical Batch:**	425657
Units:	%						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier
% Moisture	0.050	0.050	ND	

Torrent LABORATORY, INC.

LCS/LCSD Summary Report

Raw values are used in quality control assessment.

Work Order:	1707122	**Prep Method:**	6020S-P	**Prep Date:**	07/20/17	**Prep Batch:**	8276
Matrix:	Soil	**Analytical Method:**	6020A	**Analyzed Date:**	7/20/2017	**Analytical Batch:**	425519
Units:	mg/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
Arsenic	0.21	1.0	ND	25	90.4	98.9	8.88	80 - 120	30	

Work Order:	1707122	**Prep Method:**	6020S-P	**Prep Date:**	07/21/17	**Prep Batch:**	8321
Matrix:	Soil	**Analytical Method:**	6020A	**Analyzed Date:**	7/21/2017	**Analytical Batch:**	425540
Units:	mg/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
Antimony	0.12	1.0	ND	25	98.9	99.8	1.21	80 - 120	30	
Arsenic	0.21	1.0	ND	25	93.6	94.1	0.426	80 - 120	30	
Barium	0.84	1.0	ND	25	107	107	0.375	80 - 120	30	
Beryllium	0.16	1.0	ND	25	95.8	97.0	1.24	80 - 120	30	
Cadmium	0.084	1.0	ND	25	99.2	99.5	0.402	80 - 120	30	
Chromium	0.097	1.0	0.26	25	104	104	0.000	80 - 120	30	
Cobalt	0.21	1.0	ND	25	102	102	0.393	80 - 120	30	
Copper	0.17	2.5	ND	25	101	101	0.794	80 - 120	30	
Lead	0.054	1.0	ND	25	94.6	94.9	0.000	80 - 120	30	
Molybdenum	0.13	1.0	0.19	25	102	103	1.17	80 - 120	30	
Nickel	1.2	5.0	ND	25	103	103	0.000	80 - 120	30	
Selenium	0.035	2.5	ND	25	87.7	87.9	0.456	80 - 120	30	
Thallium	1.00	5.0	ND	25	90.2	91.1	0.881	80 - 120	30	
Vanadium	0.28	25	ND	25	95.2	96.4	1.25	80 - 120	30	
Zinc	0.70	2.5	ND	25	95.9	96.9	0.830	80 - 120	30	

Work Order:	1707122	**Prep Method:**	3546_PCB	**Prep Date:**	07/21/17	**Prep Batch:**	8323
Matrix:	Soil	**Analytical Method:**	SW8082A	**Analyzed Date:**	7/21/2017	**Analytical Batch:**	425546
Units:	ug/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
Aroclor1016	53	100	ND	600	108	97.5	9.76	25 - 145	30	
Aroclor1260	36	100	ND	600	105	95.2	9.67	30 - 145	30	
TCMX (S)				0.10	99.0	92.0		48 - 125		
DCBP (S)				0.10	114	104		48 - 135		

Torrent LABORATORY, INC.

LCS/LCSD Summary Report

Raw values are used in quality control assessment.

Work Order:	1707122	**Prep Method:**	6020S-P	**Prep Date:**	07/21/17	**Prep Batch:**	8336
Matrix:	Soil	**Analytical Method:**	6020A	**Analyzed Date:**	7/25/2017	**Analytical Batch:**	425557
Units:	mg/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
Antimony	0.12	1.0	0.19	25	98.5	97.7	0.816	80 - 120	30	
Arsenic	0.21	1.0	ND	25	100	100	0.000	80 - 120	30	
Barium	0.84	1.0	ND	25	97.7	97.9	0.409	80 - 120	30	
Beryllium	0.16	1.0	ND	25	99.0	99.1	0.000	80 - 120	30	
Cadmium	0.084	1.0	ND	25	99.7	99.9	0.401	80 - 120	30	
Chromium	0.097	1.0	0.17	25	103	102	0.781	80 - 120	30	
Cobalt	0.21	1.0	ND	25	100	101	0.000	80 - 120	30	
Copper	0.17	2.5	ND	25	103	103	0.778	80 - 120	30	
Lead	0.054	1.0	ND	25	105	106	0.760	80 - 120	30	
Molybdenum	0.13	1.0	0.20	25	101	101	0.000	80 - 120	30	
Nickel	1.2	5.0	ND	25	101	101	0.398	80 - 120	30	
Selenium	0.035	2.5	ND	25	102	103	0.781	80 - 120	30	
Silver	0.098	1.0	ND	25	98.7	98.9	0.000	80 - 120	30	
Thallium	1.00	5.0	ND	25	104	105	0.000	80 - 120	30	
Vanadium	0.28	25	ND	25	98.8	98.8	0.000	80 - 120	30	
Zinc	0.70	2.5	ND	25	101	102	0.000	80 - 120	30	

Work Order:	1707122	**Prep Method:**	7471BP	**Prep Date:**	07/21/17	**Prep Batch:**	8337
Matrix:	Soil	**Analytical Method:**	SW7471B	**Analyzed Date:**	7/25/2017	**Analytical Batch:**	425633
Units:	mg/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
Mercury	0.047	0.50	ND	1.25	111	111	0.000	80 - 120	30	

Work Order:	1707122	**Prep Method:**	7471BP	**Prep Date:**	07/21/17	**Prep Batch:**	8348
Matrix:	Soil	**Analytical Method:**	SW7471B	**Analyzed Date:**	7/25/2017	**Analytical Batch:**	425634
Units:	mg/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
Mercury	0.047	0.50	ND	1.25	105	104	1.53	80 - 120	30	

Torrent LABORATORY, INC.

LCS/LCSD Summary Report

Raw values are used in quality control assessment.

Work Order:	1707122	**Prep Method:**	3546_OCP	**Prep Date:**	07/22/17	**Prep Batch:**	8352
Matrix:	Soil	**Analytical Method:**	SW8081B	**Analyzed Date:**	7/23/2017	**Analytical Batch:**	425641
Units:	ug/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
gamma-BHC (Lindane)	0.16	2.0	ND	40	104	106	0.952	25 - 135	30	
Heptachlor	0.11	2.0	ND	40	99.4	101	1.00	40 - 130	30	
Aldrin	0.20	2.0	ND	40	104	105	0.955	25 - 140	30	
Dieldrin	0.15	2.0	ND	40	98.9	101	2.01	60 - 130	30	
Endrin	0.19	2.0	ND	40	91.9	94.0	2.15	55 - 135	30	
4,4-DDT	0.13	2.0	ND	40	89.4	93.3	4.38	45 - 140	30	
TCMX (S)				130	88.6	89.5		48 - 125		
DCBP (S)				130	107	113		38 - 135		

Torrent LABORATORY, INC.

MS/MSD Summary Report

Raw values are used in quality control assessment.

Work Order:	1707122	**Prep Method:**	6020S-P	**Prep Date:**	07/21/17	**Prep Batch:**	8321
Matrix:	**Soil**	**Analytical Method:**	6020A	**Analyzed Date:**	July 21	**Analytical Batch:**	425540
Spiked Sample:	1707122-001A						
Units:	mg/Kg						

Parameters	MDL	PQL	Sample Conc.	Spike Conc.	MS % Recovery	MSD % Recovery	MS/MSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
Antimony	0.12	1.0	ND	25	98.2	99.0	1.22	30.7 - 130	33	
Arsenic	0.21	1.0	3.35	25	88.1	89.4	1.17	71.0 - 121	33	
Barium	0.84	1.0	24.8	25	89.4	92.2	1.47	70.2 - 130	33	
Beryllium	0.16	1.0	ND	25	86.3	86.2	0.464	73.3 - 125	33	
Cadmium	0.084	1.0	ND	25	99.9	101	0.797	88.7 - 110	33	
Chromium	0.097	1.0	19.1	25	81.2	89.8	5.43	76.0 - 116	33	
Cobalt	0.21	1.0	4.19	25	91.7	93.0	1.10	57.4 - 122	33	
Copper	0.17	2.5	13.3	25	80.7	86.2	4.09	74.8 - 119	33	
Lead	0.054	1.0	5.33	25	82.7	84.0	1.15	57.9 - 118	33	
Molybdenum	0.13	1.0	ND	25	103	103	0.388	62.9 - 123	33	
Nickel	1.2	5.0	9.80	25	83.0	89.2	5.11	61.5 - 122	33	
Selenium	0.035	2.5	ND	25	86.3	88.1	1.83	62.0 - 111	33	
Silver	0.098	1.0	ND	25	36.8	37.1	0.758	81.1 - 109	33	S
Thallium	1.00	5.0	ND	25	83.8	84.4	0.943	39.2 - 125	33	
Vanadium	0.28	25	ND	25	86.8	94.1	4.10	65.8 - 122	33	
Zinc	0.70	2.5	20.3	25	81.0	83.2	1.22	59.9 - 122	33	

Torrent LABORATORY, INC.

MS/MSD Summary Report

Raw values are used in quality control assessment.

Work Order:	1707122	**Prep Method:**	6020S-P	**Prep Date:**	07/21/17	**Prep Batch:**	8336
Matrix:	**Soil**	**Analytical Method:**	6020A	**Analyzed Date:**	July 25	**Analytical Batch:**	425557
Spiked Sample:	1707122-019A						
Units:	mg/Kg						

Parameters	MDL	PQL	Sample Conc.	Spike Conc.	MS % Recovery	MSD % Recovery	MS/MSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
Antimony	0.12	1.0	ND	25	92.2	90.4	2.19	30.7 - 130	33	
Arsenic	0.21	1.0	4.64	25	103	94.5	7.16	71.0 - 121	33	
Barium	0.84	1.0	68.7	25	134	57.7	20.4	70.2 - 130	33	S
Beryllium	0.16	1.0	ND	25	81.1	79.2	2.49	73.3 - 125	33	
Cadmium	0.084	1.0	ND	25	100	95.6	4.90	88.7 - 110	33	
Chromium	0.097	1.0	20.9	25	136	116	9.56	76.0 - 116	33	S
Cobalt	0.21	1.0	5.78	25	99.0	90.4	7.13	57.4 - 122	33	
Copper	0.17	2.5	18.8	25	108	87.9	11.8	74.8 - 119	33	
Lead	0.054	1.0	13.1	25	112	100	7.56	57.9 - 118	33	
Molybdenum	0.13	1.0	ND	25	97.0	95.0	1.67	62.9 - 123	33	
Nickel	1.2	5.0	10.0	25	104	93.4	7.79	61.5 - 122	33	
Selenium	0.035	2.5	ND	25	94.0	90.5	3.90	62.0 - 111	33	
Silver	0.098	1.0	ND	25	93.0	90.1	3.49	81.1 - 109	33	
Thallium	1.00	5.0	ND	25	90.0	87.8	2.70	39.2 - 125	33	
Vanadium	0.28	25	25.0	25	137	107	13.3	65.8 - 122	33	S
Zinc	0.70	2.5	23.1	25	128	109	8.93	59.9 - 122	33	S

Work Order:	1707122	**Prep Method:**	7471BP	**Prep Date:**	07/21/17	**Prep Batch:**	8337
Matrix:	**Soil**	**Analytical Method:**	SW7471B	**Analyzed Date:**	7/25/2017	**Analytical Batch:**	425633
Spiked Sample:	1707122-019A						
Units:	mg/Kg						

Parameters	MDL	PQL	Sample Conc.	Spike Conc.	MS % Recovery	MSD % Recovery	MS/MSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
Mercury	0.047	0.50	ND	1.25	108	112	2.88	75 - 125	30	

Work Order:	1707122	**Prep Method:**	7471BP	**Prep Date:**	07/21/17	**Prep Batch:**	8348
Matrix:	**Soil**	**Analytical Method:**	SW7471B	**Analyzed Date:**	7/25/2017	**Analytical Batch:**	425634
Spiked Sample:	1707122-001A						
Units:	mg/Kg						

Parameters	MDL	PQL	Sample Conc.	Spike Conc.	MS % Recovery	MSD % Recovery	MS/MSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
Mercury	0.047	0.50	ND	1.25	114	106	7.94	75 - 125	30	

Torrent LABORATORY, INC.

Duplicate QC Summary Report

Work Order:	1707122	**Prep Method:**	% Water-P	**Prep Date:**	7/21/2017	**Prep Batch:**	8446
Matrix:		**Analytical Method:**	ASTM D2216-90	**Analyzed Date:**	07/21/17	**Analytical Batch:**	425657
Units:						**Lab Sample ID:**	1707122-001A-DUP-8446

Parameters	MDL	PQL	Sample Result	Duplicate Result	% RPD
% Moisture	0.050	0.0500	29.5	33.1	11.50

Work Order:	1707122	**Prep Method:**	% Water-P	**Prep Date:**	7/21/2017	**Prep Batch:**	8446
Matrix:		**Analytical Method:**	ASTM D2216-90	**Analyzed Date:**	07/21/17	**Analytical Batch:**	425657
Units:						**Lab Sample ID:**	1707122-011A-DUP-8446

Parameters	MDL	PQL	Sample Result	Duplicate Result	% RPD
% Moisture	0.050	0.0500	16.8	19.6	15.40

Work Order:	1707122	**Prep Method:**	% Water-P	**Prep Date:**	7/21/2017	**Prep Batch:**	8347
Matrix:		**Analytical Method:**	ASTM D2216-90	**Analyzed Date:**	07/21/17	**Analytical Batch:**	425559
Units:						**Lab Sample ID:**	1707122-021A-DUP-8347

Parameters	MDL	PQL	Sample Result	Duplicate Result	% RPD
% Moisture	0.050	0.0500	27.2	24.2	11.70

Work Order:	1707122	**Prep Method:**	6020S-P	**Prep Date:**	7/20/2017	**Prep Batch:**	8276
Matrix:		**Analytical Method:**	6020A	**Analyzed Date:**	07/20/17	**Analytical Batch:**	425519
Units:						**Lab Sample ID:**	1707122-023A-DUP-8276

Parameters	MDL	PQL	Sample Result	Duplicate Result	% RPD
Arsenic	0.23	1.1	14.9	13.2	12.00

Laboratory Qualifiers and Definitions

DEFINITIONS:

Accuracy/Bias (% Recovery) - The closeness of agreement between an observed value and an accepted reference value.
Blank (Method/Preparation Blank) -MB/PB - An analyte-free matrix to which all reagents are added in the same volumes/proportions as used in sample processing. The method blank is used to document contamination resulting from the analytical process.
Duplicate - a field sample and/or laboratory QC sample prepared in duplicate following all of the same processes and procedures used on the original sample (sample duplicate, LCSD, MSD)
Laboratory Control Sample (LCS ad LCSD) - A known matrix spiked with compounds representative of the target analyte(s). This is used to document laboratory performance.
Matrix - the component or substrate that contains the analyte of interest (e.g., - groundwater, sediment, soil, waste water, etc)
Matrix Spike (MS/MSD) - Client sample spiked with identical concentrations of target analyte (s). The spiking occurs prior to the sample preparation and analysis. They are used to document the precision and bias of a method in a given sample matrix.
Method Detection Limit (MDL) - the minimum concentration of a substance that can be measured and reported with a 99% confidence that the analyte concentration is greater than zero
Practical Quantitation Limit/Reporting Limit/Limit of Quantitation (PQL/RL/LOQ) - a laboratory determined value at 2 to 5 times above the MDL that can be reproduced in a manner that results in a 99% confidence level that the result is both accurate and precise. PQLs/RLs/LODs reflect all preparation factors and/or dilution factors that have been applied to the sample during the preparation and/or analytical processes.
Precision (%RPD) - The agreement among a set of replicate/duplicate measurements without regard to known value of the replicates
Surrogate (S) or (Surr) - An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. Surrogates are used in most organic analysis to demonstrate matrix compatibility with the chosen method of analysis
Tentatively Identified Compound (TIC) - A compound not contained within the analytical calibration standards but present in the GCMS library of defined compounds. When the library is searched for an unknown compound, it can frequently give a tentative identification to the compound based on retention time and primary and secondary ion match. TICs are reported as estimates and are candidates for further investigation.
Units: the unit of measure used to express the reported result - **mg/L** and ***mg/Kg*** (equivalent to PPM - parts per million in **liquid** and ***solid***), **ug/L** and ***ug/Kg*** (equivalent to PPB - parts per billion in **liquid** and ***solid***), **ug/m3**, ***mg/m3***, **ppbv** and ***ppmv*** (all units of measure for reporting concentrations in air), **%** (equivalent to 10000 ppm or 1,000,000 ppb), **ug/Wipe** (concentration found on the surface of a single Wipe usually taken over a 100cm2 surface)

LABORATORY QUALIFIERS:

B - Indicates when the analyte is found in the associated method or preparation blank
D - Surrogate is not recoverable due to the necessary dilution of the sample
E - Indicates the reportable value is outside of the calibration range of the instrument but within the linear range of the instrument (unless otherwise noted) Values reported with an E qualifier should be considered as estimated.
H- Indicates that the recommended holding time for the analyte or compound has been exceeded
J- Indicates a value between the method MDL and PQL and that the reported concentration should be considered as estimated rather the quantitative
NA - Not Analyzed
N/A - Not Applicable
ND - Not Detected at a concentration greater than the PQL/RL or, if reported to the MDL, at greater than the MDL.
NR - Not recoverable - a matrix spike concentration is not recoverable due to a concentration within the original sample that is greater than four times the spike concentration added
R- The % RPD between a duplicate set of samples is outside of the absolute values established by laboratory control charts
S- Spike recovery is outside of established method and/or laboratory control limits. Further explanation of the use of this qualifier should be included within a case narrative
X -Used to indicate that a value based on pattern identification is within the pattern range but not typical of the pattern found in standards. Further explanation may or may not be provided within the sample footnote and/or the case narrative.

Sample Receipt Checklist

Client Name: Cornerstone(Walnut Creek)

Project Name: 3141 Taylor Road

Work Order No.: 1707122

Date and Time Received: 7/19/2017 1:35:00PM

Received By: Helena Ueng

Physically Logged By: Helena Ueng

Checklist Completed By:

Carrier Name: First Courier

Chain of Custody (COC) Information

Chain of custody present?	Yes
Chain of custody signed when relinquished and received?	Yes
Chain of custody agrees with sample labels?	Yes
Custody seals intact on sample bottles?	Not Present

Sample Receipt Information

Custody seals intact on shipping container/cooler?	Not Present
Shipping Container/Cooler In Good Condition?	Yes
Samples in proper container/bottle?	Yes
Samples containers intact?	Yes
Sufficient sample volume for indicated test?	Yes

Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes			
Container/Temp Blank temperature in compliance?	Yes	Temperature:	1.0	°C
Water-VOA vials have zero headspace?				
Water-pH acceptable upon receipt?	N/A			

pH Checked by: N/A

pH Adjusted by: N/A

Comments:

Login Summary Report

Client ID:	TL5508	Cornerstone(Walnut Creek)	**QC Level:**	II
Project Name:	3141 Taylor Road		**TAT Requested:**	5+ day:5
Project # :	411-16-3		**Date Received:**	7/19/2017
Report Due Date:	7/26/2017		**Time Received:**	1:35 pm

Comments:

Work Order # : ***1707122***

WO Sample ID	Client Sample ID	Collection Date/Time	Matrix	Scheduled Disposal	Sample On Hold	Test On Hold	Requested Tests	Subbed
1707122-001A	SS-101 (0-0.5)	07/18/17 13:01	Soil	01/15/18			PMOIST Pest_S_8081OCP Met_S_6020CAM17 Hg_S_7471B	
Sample Note:	Metals by 6020, need to be reported to the MDL to meet RL of 0.5 mg/kg OCPs--need RLs of 2 ppb (40 ppb for Chlordane). Avoid diluting.							
1707122-002A	SS-102 (0-0.5)	07/18/17 13:02	Soil	01/15/18			PCBs_S_8082A Met_S_6020CAM17 Pest_S_8081OCP Hg_S_7471B PMOIST	
Sample Note:	PCBs--need RL of 50 ppb							
1707122-003A	SS-1 (0-0.5)	07/18/17 14:26	Soil	01/15/18			PMOIST Met_S_6020CAM17 Hg_S_7471B	
1707122-004A	SS-2 (0-0.5)	07/18/17 14:23	Soil	01/15/18			PMOIST Met_S_6020CAM17 Hg_S_7471B	
1707122-005A	SS-3 (0-0.5)	07/18/17 16:18	Soil	01/15/18			PMOIST Met_S_6020CAM17 Hg_S_7471B	
1707122-006A	SS-4 (0-0.5)	07/18/17 13:12	Soil	01/15/18			PMOIST Met_S_6020CAM17 Hg_S_7471B	
1707122-007A	SS-4 (2.5-3)	07/18/17 13:17	Soil	01/15/18			PMOIST Met_S_6020AsPb	
Sample Note:	6020-Arsenic only							
1707122-008A	SS-5 (0-0.5)	07/18/17 12:50	Soil	01/15/18				

Login Summary Report

Client ID: TL5508 Cornerstone(Walnut Creek)

Project Name: 3141 Taylor Road

Project # : 411-16-3

Report Due Date: 7/26/2017

QC Level: II

TAT Requested: 5+ day:5

Date Received: 7/19/2017

Time Received: 1:35 pm

Comments:

Work Order # : ***1707122***

WO Sample ID	Client Sample ID	Collection Date/Time	Matrix	Scheduled Disposal	Sample On Hold	Test On Hold	Requested Tests	Subbed
1707122-009A	SS-6 (0-0.5)	07/18/17 12:14	Soil	01/15/18			PMOIST Met_S_6020CAM17 Hg_S_7471B	
1707122-010A	SS-6 (2.5-3)	07/18/17 12:20	Soil	01/15/18			PMOIST Met_S_6020CAM17 Hg_S_7471B	
1707122-011A	SS-7 (0-0.5)	07/18/17 12:45	Soil	01/15/18			PMOIST Met_S_6020AsPb	
1707122-012A	SS-9 (0-0.5)	07/18/17 10:07	Soil	01/15/18			PMOIST Met_S_6020CAM17 Hg_S_7471B	
1707122-013A	SS-8 (0-0.5)	07/18/17 10:54	Soil	01/15/18			PMOIST Met_S_6020CAM17 Hg_S_7471B	
1707122-014A	SS-8 (2.5-3)	07/18/17 10:58	Soil	01/15/18			PMOIST Met_S_6020CAM17 Hg_S_7471B	
1707122-015A	SS-10 (0-0.5)	07/18/17 9:55	Soil	01/15/18			PMOIST Met_S_6020AsPb	
1707122-016A	SS-11 (0-0.5)	07/18/17 8:55	Soil	01/15/18			PMOIST Met_S_6020CAM17 Hg_S_7471B	
1707122-017A	SS-12 (0-0.5)	07/18/17 9:25	Soil	01/15/18			PMOIST Met_S_6020CAM17 Hg_S_7471B	

Login Summary Report

Client ID:	TL5508	Cornerstone(Walnut Creek)	**QC Level:**	II
Project Name:	3141 Taylor Road		**TAT Requested:**	5+ day:5
Project # :	411-16-3		**Date Received:**	7/19/2017
Report Due Date:	7/26/2017		**Time Received:**	1:35 pm

Comments:

Work Order # : ***1707122***

WO Sample ID	Client Sample ID	Collection Date/Time	Matrix	Scheduled Disposal	Sample On Hold	Test On Hold	Requested Tests	Subbed
1707122-018A	SS-12 (2.5-3)	07/18/17 9:30	Soil	01/15/18			PMOIST Met_S_6020AsPb	
1707122-019A	SS-13 (0-0.5)	07/18/17 10:33	Soil	01/15/18			Hg_S_7471B Met_S_6020CAM17 PMOIST	
1707122-020A	SS-14 (0-0.5)	07/18/17 10:46	Soil	01/15/18			Hg_S_7471B Met_S_6020CAM17 PMOIST	
1707122-021A	SS-15 (0-0.5)	07/18/17 10:56	Soil	01/15/18			PMOIST Met_S_6020CAM17 Hg_S_7471B	
1707122-022A	SS-16 (0-0.5)	07/18/17 11:27	Soil	01/15/18			PMOIST Met_S_6020CAM17 Hg_S_7471B	
1707122-023A	SS-16 (2.5-3)	07/18/17 11:39	Soil	01/15/18			PMOIST Met_S_6020AsPb	
1707122-024A	SS-17 (0-0.5)	07/18/17 12:53	Soil	01/15/18			PMOIST Hg_S_7471B Met_S_6020CAM17	

Torrent LABORATORY, INC.

CORNERSTONE EARTH GROUP

Chain of Custody Record

1707122

Cornerstone Earth Group, Inc.	Project Manager: Peter Langtry	Site Sampler: BMJ KAK	Date: 7/18/17
	Tel/Fax: 925-988-9500 ext. 217	Lab Contact: Kathie Evans	Lab: Torrent Laboratory, Inc.
1270 Springbrook Rd	Analysis Turnaround Time		
Walnut Creek, CA 94597			
(925)-988-9500 Phone	TAT if different from Below _____		
(925)-988-9501 FAX	☐ 1 week		
Project Name: 3141 Taylor Rd	■ 3 days		
Site: Loomis, CA	☐ 2 days		
Project Number: 411-16-3	☐ 1 day		

COC No: 1 of 6 COCs

Laboratory's Job No.

	Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample	Arsenic (EPA 6020)	CAM17 (EPA 6020)	OCPs (EPA 8081)	PCBs (EPA 8082)	HOLD	Laboratory's Sample Specific Notes:
-001A	SS-101 (0-0.5)	7/18/17	01:01	Liner	Sol	1			X	X			
-002A	SS-102 (0-0.5)		01:02						X	X	X		
-003A	SS-1 (0-0.5)		14:26						X				
-004A	SS-2 (0-0.5)		14:23						X				
-005A	SS-3 (0-0.5)		16:18						X				
-006A	SS-4 (0-0.5)		13:12						X				
-007A	SS-4 (2.5-3)		13:17					X					
-008A	SS-5 (0-0.5)		12:50						X				
-009A	SS-6 (0-0.5)		12:14						X				
-010A	SS-6 (2.5-3)		12:20					X	~~X~~ PCBs				Arsenic Only
-011A	SS-7 (0-0.5)		12:45						X				
-012A	SS-9 (0-0.5)		10:07						X				

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification

☐ Non-Hazardous ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown

Sample Disposal

☐ Return to Client ☐ Disposal by Lab ☐ Archive For _____ Months

Special Instructions/QC Requirements & Comments: If additional sample is needed, please use the liner.

Please CC: Brent Johnson, bjohnson@cornerstoneearth.com, with results

Please report all soil analyses on dry weight basis.

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
[signature]	Cornerstone Earth Group	7/19/17 11:30	[signature]	1st CLASS	7/19 11:30
[signature]	1st CLASS	7/19/17 1:35	[signature]	Torrent	7/19/17 13:35
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:

PCS Temp = 1°C #1

Torrent LABORATORY, INC.

CORNERSTONE EARTH GROUP

Chain of Custody Record

1707122

Cornerstone Earth Group, Inc.	Project Manager: Peter Langtry	Site Sampler: BMJ / KAK	Date: 7/18/17
	Tel/Fax: 925-988-9500 ext. 217	Lab Contact: Kathie Evans	Lab: Torrent Laboratory, Inc.
1270 Springbrook Rd	Analysis Turnaround Time		
Walnut Creek, CA 94597			
(925)-988-9500 Phone	TAT if different from Below _____		
(925)-988-9501 FAX	☐ 1 week		
Project Name: 3141 Taylor Rd	■ 3 days		
Site: Loomis, CA	☐ 2 days		
Project Number: 411-16-3	☐ 1 day		

COC No: 2 of 6 COCs

Laboratory's Job No.

	Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample	Arsenic (EPA 6020)	CAM17 (EPA 6020)	OCPs (EPA 8081)	PCBs (EPA 8082)	HOLD	Laboratory's Sample Specific Notes:
-013A	SS-8 (0-0.5)	7/18/17	10:54	Liner	Soil	1			X				
-014A	SS-8 (2.5-3)		10:58					X					
-015A	SS-~~9~~ BJ 10 (0-0.5)		09:55						X				
-016A	SS-11 (0-0.5)		08:55						X				
-017A	SS-12 (0-0.5)		09:25						X				
-018A	SS-12 (2.5-3)		09:30					X					
-019A	SS-13 (0-0.5)		10:33						X				
-020A	SS-14 (0-0.5)		10:46						X				
-021A	SS-15 (0-0.5)		10:56						X				
-022A	SS-16 (0-0.5)		11:27						X				
-023A	SS-16 (BJ 2.5-3)		11:39					X					
-024A	SS-17 (0-0.5)		12:53						X				

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other 1

Possible Hazard Identification

☐ Non-Hazardous ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown

Sample Disposal

☐ *Return to Client* ☐ *Disposal by Lab* ☐ *Archive For* _____ *Months*

Special Instructions/QC Requirements & Comments: If additional sample is needed, please use the liner.

Please CC: Brent Johnson, bjohnson@cornerstoneearth.com, with results

Please report all soil analyses on dry weight basis

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
[signature]	Cornerstone Earth Group	7/19/17 11:30	Derek	1st Class	7/19 1130
Relinquished by: Derek	Company: 1st Class	Date/Time: 7/19/17	Received by: 1:35 [signature]	Company: Torrent	Date/Time: 7/19/17 13:35
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:

FCS Temp=1°C #1

Cornerstone(Walnut Creek)
1270 Springbrook Rd., Ste. 101
Walnut Creek, California 94597
Tel: 925 988 9500
Fax: 925 988 9501

RE: 3141 Taylor Road

Work Order No.: 1707122

Dear Peter Langtry:

Torrent Laboratory, Inc. received 24 sample(s) on July 19, 2017 for the analyses presented in the following Report.

All data for associated QC met EPA or laboratory specification(s) except where noted in the case narrative.

Torrent Laboratory, Inc. is certified by the State of California, ELAP #1991. If you have any questions regarding these test results, please feel free to contact the Project Management Team at (408)263-5258; ext 204.

Patti L Sandrock
QA Officer

July 27, 2017
Date

Date: 7/27/2017

Client: Cornerstone(Walnut Creek)

Project: 3141 Taylor Road

Work Order: 1707122

CASE NARRATIVE

No issues encountered with the receiving, preparation, analysis or reporting of the results associated with this work order.

Unless otherwise indicated in the following narrative, no results have been method and/or field blank corrected.

Reported results relate only to the items/samples tested by the laboratory.

This report shall not be reproduced, except in full, without the written approval of Torrent Analytical, Inc.

Data is reported as dry weight. Where necessary, results are reported to the MDL to meet client reporting limits of 0.5 mg/kg for metals, 50 ug/kg for PCBs and 2 ug/kg for Pesticides (40 ug/kg for Toxaphene and Chlordane).

Analytical Comments for method _Met_S_6020CAM17, 1707122-001A MS/MSD, QC Analytical Preparation ID 8321, Note:The % recoveries for Silver are outside of laboratory control limits but % RPD is within limits. The associated LCS/LCSD is within both % Recovery and %RPD limits. No corrective action required.

Analytical Comments for method _Met_S_6020CAM17, 1707122-019A MS/MSD, QC Analytical Preparation ID 8336, Note:The % recoveries for Silver, Barium, Chromium, Vanadium and Zinc are outside of laboratory control limits but % RPD is within limits. The associated LCS/LCSD is within both % Recovery and %RPD limits. No corrective action required.

Torrent LABORATORY, INC.

Sample Result Summary

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date Received: 07/19/17
Date Reported: 07/27/17

SS-101 (0-0.5) 1707122-001

Parameters:	Analysis Method	DF	MDL	PQL	Results	Unit
Arsenic	6020A	1	0.21	1.0	3.35	mg/Kg
Barium	6020A	1	0.84	1.0	24.8	mg/Kg
Chromium	6020A	1	0.097	1.0	19.1	mg/Kg
Cobalt	6020A	1	0.21	1.0	4.19	mg/Kg
Copper	6020A	1	0.17	2.5	13.3	mg/Kg
Lead	6020A	1	0.054	1.0	5.33	mg/Kg
Nickel	6020A	1	1.2	5.0	9.80	mg/Kg
Vanadium	6020A	1	0.28	25	21.3	mg/Kg
Zinc	6020A	1	0.70	2.5	20.3	mg/Kg
% Moisture	ASTM D2216-90	1	0.050	0.050	29.5	%
Dry Weight Factor	ASTM D2216-90	1			1.42	%
4,4-DDE	SW8081B	3	0.83	8.5	37.8	ug/Kg
4,4-DDT	SW8081B	3	0.55	8.5	3.01	ug/Kg

SS-102 (0-0.5) 1707122-002

Parameters:	Analysis Method	DF	MDL	PQL	Results	Unit
Antimony	6020A	1	0.12	1.0	0.356	mg/Kg
Arsenic	6020A	1	0.21	1.0	8.49	mg/Kg
Beryllium	6020A	1	0.16	1.0	0.172	mg/Kg
Cadmium	6020A	1	0.084	1.0	0.165	mg/Kg
Chromium	6020A	1	0.097	1.0	23.7	mg/Kg
Cobalt	6020A	1	0.21	1.0	6.07	mg/Kg
Copper	6020A	1	0.17	2.5	22.9	mg/Kg
Lead	6020A	1	0.054	1.0	38.9	mg/Kg
Molybdenum	6020A	1	0.13	1.0	0.846	mg/Kg
Nickel	6020A	1	1.2	5.0	13.8	mg/Kg
Vanadium	6020A	1	0.28	25	40.7	mg/Kg
Barium	6020A	10	1.7	2.0	87.5	mg/Kg
Zinc	6020A	10	1.4	5.0	112	mg/Kg
Silver	6020A	1	0.11	1.1	0.250	mg/Kg
% Moisture	ASTM D2216-90	1	0.050	0.050	7.89	%
Dry Weight Factor	ASTM D2216-90	1			1.09	%
4,4-DDE	SW8081B	3	0.63	6.5	45.2	ug/Kg
4,4-DDT	SW8081B	3	0.42	6.5	12.5	ug/Kg

Torrent LABORATORY, INC.

Sample Result Summary

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date Received: 07/19/17
Date Reported: 07/27/17

SS-1 (0-0.5) 1707122-003

Parameters:	Analysis Method	DF	MDL	PQL	Results	Unit
Antimony	6020A	1	0.12	1.0	0.165	mg/Kg
Arsenic	6020A	1	0.21	1.0	9.54	mg/Kg
Barium	6020A	1	0.84	1.0	59.7	mg/Kg
Cadmium	6020A	1	0.084	1.0	0.102	mg/Kg
Chromium	6020A	1	0.097	1.0	28.3	mg/Kg
Cobalt	6020A	1	0.21	1.0	6.78	mg/Kg
Copper	6020A	1	0.17	2.5	23.1	mg/Kg
Lead	6020A	1	0.054	1.0	17.6	mg/Kg
Molybdenum	6020A	1	0.13	1.0	0.252	mg/Kg
Nickel	6020A	1	1.2	5.0	13.6	mg/Kg
Vanadium	6020A	1	0.28	25	30.5	mg/Kg
Zinc	6020A	1	0.70	2.5	39.9	mg/Kg
% Moisture	ASTM D2216-90	1	0.050	0.050	28.4	%
Dry Weight Factor	ASTM D2216-90	1			1.40	%

SS-2 (0-0.5) 1707122-004

Parameters:	Analysis Method	DF	MDL	PQL	Results	Unit
Antimony	6020A	1	0.12	1.0	0.322	mg/Kg
Arsenic	6020A	1	0.21	1.0	12.2	mg/Kg
Beryllium	6020A	1	0.16	1.0	0.173	mg/Kg
Cadmium	6020A	1	0.084	1.0	0.156	mg/Kg
Chromium	6020A	1	0.097	1.0	45.9	mg/Kg
Cobalt	6020A	1	0.21	1.0	9.20	mg/Kg
Copper	6020A	1	0.17	2.5	32.1	mg/Kg
Lead	6020A	1	0.054	1.0	32.8	mg/Kg
Molybdenum	6020A	1	0.13	1.0	0.706	mg/Kg
Nickel	6020A	1	1.2	5.0	19.0	mg/Kg
Vanadium	6020A	1	0.28	25	46.4	mg/Kg
Zinc	6020A	1	0.70	2.5	68.4	mg/Kg
Barium	6020A	1	1.1	1.3	81.9	mg/Kg
% Moisture	ASTM D2216-90	1	0.050	0.050	25.5	%
Dry Weight Factor	ASTM D2216-90	1			1.34	%

Torrent LABORATORY, INC.

Sample Result Summary

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date Received: 07/19/17
Date Reported: 07/27/17

SS-3 (0-0.5) 1707122-005

Parameters:	Analysis Method	DF	MDL	PQL	Results	Unit
Antimony	6020A	1	0.19	1.6	0.238	mg/Kg
Arsenic	6020A	1	0.33	1.6	16.3	mg/Kg
Barium	6020A	1	1.3	1.6	76.9	mg/Kg
Chromium	6020A	1	0.15	1.6	42.3	mg/Kg
Cobalt	6020A	1	0.33	1.6	11.0	mg/Kg
Copper	6020A	1	0.27	3.9	35.4	mg/Kg
Lead	6020A	1	0.084	1.6	26.6	mg/Kg
Molybdenum	6020A	1	0.20	1.6	0.462	mg/Kg
Nickel	6020A	1	2.0	7.9	19.9	mg/Kg
Vanadium	6020A	1	0.44	39	50.4	mg/Kg
Zinc	6020A	1	1.1	3.9	53.4	mg/Kg
% Moisture	ASTM D2216-90	1	0.050	0.050	36.5	%
Dry Weight Factor	ASTM D2216-90	1			1.57	%

SS-4 (0-0.5) 1707122-006

Parameters:	Analysis Method	DF	MDL	PQL	Results	Unit
Antimony	6020A	1	0.12	1.0	0.220	mg/Kg
Arsenic	6020A	1	0.21	1.0	14.8	mg/Kg
Beryllium	6020A	1	0.16	1.0	0.164	mg/Kg
Cadmium	6020A	1	0.084	1.0	0.105	mg/Kg
Chromium	6020A	1	0.098	1.0	32.6	mg/Kg
Cobalt	6020A	1	0.21	1.0	8.47	mg/Kg
Copper	6020A	1	0.17	2.5	31.9	mg/Kg
Lead	6020A	1	0.054	1.0	31.0	mg/Kg
Molybdenum	6020A	1	0.13	1.0	0.373	mg/Kg
Nickel	6020A	1	1.3	5.1	14.4	mg/Kg
Vanadium	6020A	1	0.28	25	36.4	mg/Kg
Zinc	6020A	1	0.71	2.5	34.7	mg/Kg
Barium	6020A	10	1.7	2.0	72.3	mg/Kg
Silver	6020A	1	0.099	1.0	0.406	mg/Kg
% Moisture	ASTM D2216-90	1	0.050	0.050	1.21	%
Dry Weight Factor	ASTM D2216-90	1			1.01	%

SS-4 (2.5-3) 1707122-007

Parameters:	Analysis Method	DF	MDL	PQL	Results	Unit
Arsenic	6020A	1	0.28	1.3	16.1	mg/Kg
% Moisture	ASTM D2216-90	1	0.050	0.050	25.6	%
Dry Weight Factor	ASTM D2216-90	1			1.34	%

Torrent LABORATORY, INC.

Sample Result Summary

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date Received: 07/19/17
Date Reported: 07/27/17

SS-5 (0-0.5) 1707122-008

Parameters:	Analysis Method	DF	MDL	PQL	Results	Unit
Antimony	6020A	1	0.12	1.0	0.154	mg/Kg
Arsenic	6020A	1	0.21	1.0	8.60	mg/Kg
Chromium	6020A	1	0.098	1.0	22.3	mg/Kg
Cobalt	6020A	1	0.21	1.0	5.69	mg/Kg
Copper	6020A	1	0.17	2.5	21.6	mg/Kg
Lead	6020A	1	0.054	1.0	32.1	mg/Kg
Molybdenum	6020A	1	0.13	1.0	0.146	mg/Kg
Nickel	6020A	1	1.3	5.1	10.4	mg/Kg
Vanadium	6020A	1	0.28	25	24.3	mg/Kg
Zinc	6020A	1	0.71	2.5	25.2	mg/Kg
Barium	6020A	10	1.7	2.0	71.3	mg/Kg
% Moisture	ASTM D2216-90	1	0.050	0.050	0.680	%
Dry Weight Factor	ASTM D2216-90	1			1.01	%

SS-6 (0-0.5) 1707122-009

Parameters:	Analysis Method	DF	MDL	PQL	Results	Unit
Antimony	6020A	1	0.15	1.3	0.233	mg/Kg
Arsenic	6020A	1	0.26	1.3	11.4	mg/Kg
Cadmium	6020A	1	0.10	1.3	0.147	mg/Kg
Chromium	6020A	1	0.12	1.3	34.3	mg/Kg
Cobalt	6020A	1	0.26	1.3	8.90	mg/Kg
Copper	6020A	1	0.21	3.1	29.7	mg/Kg
Lead	6020A	1	0.067	1.3	31.2	mg/Kg
Molybdenum	6020A	1	0.16	1.3	0.298	mg/Kg
Nickel	6020A	1	1.6	6.3	18.4	mg/Kg
Vanadium	6020A	1	0.35	31	40.8	mg/Kg
Zinc	6020A	1	0.88	3.1	42.2	mg/Kg
Barium	6020A	10	2.1	2.5	79.9	mg/Kg
% Moisture	ASTM D2216-90	1	0.050	0.050	19.9	%
Dry Weight Factor	ASTM D2216-90	1			1.25	%

SS-6 (2.5-3) 1707122-010

Parameters:	Analysis Method	DF	MDL	PQL	Results	Unit
Arsenic	6020A	1	0.24	1.1	6.38	mg/Kg
% Moisture	ASTM D2216-90	1	0.050	0.050	12.1	%
Dry Weight Factor	ASTM D2216-90	1			1.14	%

Torrent LABORATORY, INC.

Sample Result Summary

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date Received: 07/19/17
Date Reported: 07/27/17

SS-7 (0-0.5) 1707122-011

Parameters:	Analysis Method	DF	MDL	PQL	Results	Unit
Antimony	6020A	1	0.14	1.2	0.197	mg/Kg
Arsenic	6020A	1	0.25	1.2	8.04	mg/Kg
Cadmium	6020A	1	0.10	1.2	0.109	mg/Kg
Chromium	6020A	1	0.12	1.2	30.7	mg/Kg
Cobalt	6020A	1	0.25	1.2	7.79	mg/Kg
Copper	6020A	1	0.20	3.0	31.1	mg/Kg
Lead	6020A	1	0.064	1.2	28.0	mg/Kg
Molybdenum	6020A	1	0.16	1.2	0.250	mg/Kg
Nickel	6020A	1	1.5	6.0	14.5	mg/Kg
Vanadium	6020A	1	0.34	30	34.3	mg/Kg
Zinc	6020A	1	0.84	3.0	34.0	mg/Kg
Barium	6020A	10	2.0	2.4	91.3	mg/Kg
% Moisture	ASTM D2216-90	1	0.050	0.050	16.8	%
Dry Weight Factor	ASTM D2216-90	1			1.20	%

SS-9 (0-0.5) 1707122-012

Parameters:	Analysis Method	DF	MDL	PQL	Results	Unit
Antimony	6020A	1	0.16	1.4	0.167	mg/Kg
Arsenic	6020A	1	0.28	1.4	13.5	mg/Kg
Cadmium	6020A	1	0.11	1.4	0.124	mg/Kg
Chromium	6020A	1	0.13	1.4	34.1	mg/Kg
Cobalt	6020A	1	0.28	1.4	8.98	mg/Kg
Copper	6020A	1	0.23	3.4	44.2	mg/Kg
Lead	6020A	1	0.072	1.4	56.0	mg/Kg
Molybdenum	6020A	1	0.18	1.4	0.265	mg/Kg
Nickel	6020A	1	1.7	6.8	17.0	mg/Kg
Vanadium	6020A	1	0.38	34	37.9	mg/Kg
Zinc	6020A	1	0.95	3.4	42.0	mg/Kg
Barium	6020A	10	2.3	2.7	115	mg/Kg
% Moisture	ASTM D2216-90	1	0.050	0.050	26.1	%
Dry Weight Factor	ASTM D2216-90	1			1.35	%

Torrent LABORATORY, INC.

Sample Result Summary

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date Received: 07/19/17
Date Reported: 07/27/17

SS-8 (0-0.5) 1707122-013

Parameters:	Analysis Method	DF	MDL	PQL	Results	Unit
Antimony	6020A	1	0.13	1.0	0.186	mg/Kg
Arsenic	6020A	1	0.22	1.0	9.79	mg/Kg
Cadmium	6020A	1	0.087	1.0	0.0879	mg/Kg
Chromium	6020A	1	0.10	1.0	26.5	mg/Kg
Cobalt	6020A	1	0.22	1.0	7.16	mg/Kg
Copper	6020A	1	0.18	2.6	31.1	mg/Kg
Lead	6020A	1	0.056	1.0	42.4	mg/Kg
Molybdenum	6020A	1	0.14	1.0	0.182	mg/Kg
Nickel	6020A	1	1.3	5.2	12.7	mg/Kg
Vanadium	6020A	1	0.29	26	27.9	mg/Kg
Zinc	6020A	1	0.73	2.6	29.0	mg/Kg
Barium	6020A	10	1.7	2.1	90.7	mg/Kg
% Moisture	ASTM D2216-90	1	0.050	0.050	3.84	%
Dry Weight Factor	ASTM D2216-90	1			1.04	%

SS-8 (2.5-3) 1707122-014

Parameters:	Analysis Method	DF	MDL	PQL	Results	Unit
Arsenic	6020A	1	0.26	1.2	5.70	mg/Kg
% Moisture	ASTM D2216-90	1	0.050	0.050	19.2	%
Dry Weight Factor	ASTM D2216-90	1			1.24	%

SS-10 (0-0.5) 1707122-015

Parameters:	Analysis Method	DF	MDL	PQL	Results	Unit
Antimony	6020A	1	0.12	1.0	0.163	mg/Kg
Arsenic	6020A	1	0.21	1.0	8.56	mg/Kg
Beryllium	6020A	1	0.16	1.0	0.189	mg/Kg
Cadmium	6020A	1	0.084	1.0	0.0985	mg/Kg
Cobalt	6020A	1	0.21	1.0	10.8	mg/Kg
Copper	6020A	1	0.17	2.5	38.8	mg/Kg
Lead	6020A	1	0.054	1.0	24.2	mg/Kg
Molybdenum	6020A	1	0.13	1.0	0.267	mg/Kg
Nickel	6020A	1	1.3	5.1	19.4	mg/Kg
Vanadium	6020A	1	0.28	25	48.5	mg/Kg
Zinc	6020A	1	0.71	2.5	44.1	mg/Kg
Barium	6020A	10	1.7	2.0	114	mg/Kg
Chromium	6020A	1	0.098	1.0	40.5	mg/Kg
% Moisture	ASTM D2216-90	1	0.050	0.050	1.12	%
Dry Weight Factor	ASTM D2216-90	1			1.01	%

Torrent LABORATORY, INC.

Sample Result Summary

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date Received: 07/19/17
Date Reported: 07/27/17

SS-11 (0-0.5) 1707122-016

Parameters:	Analysis Method	DF	MDL	PQL	Results	Unit
Antimony	6020A	1	0.12	1.0	0.285	mg/Kg
Arsenic	6020A	1	0.21	1.0	8.80	mg/Kg
Beryllium	6020A	1	0.16	1.0	0.164	mg/Kg
Cadmium	6020A	1	0.084	1.0	0.166	mg/Kg
Cobalt	6020A	1	0.21	1.0	7.14	mg/Kg
Copper	6020A	1	0.17	2.5	18.5	mg/Kg
Lead	6020A	1	0.054	1.0	21.1	mg/Kg
Molybdenum	6020A	1	0.13	1.0	0.491	mg/Kg
Nickel	6020A	1	1.3	5.1	14.6	mg/Kg
Vanadium	6020A	1	0.28	25	37.0	mg/Kg
Zinc	6020A	1	0.71	2.5	55.7	mg/Kg
Barium	6020A	10	1.7	2.0	108	mg/Kg
Chromium	6020A	1	0.098	1.0	24.6	mg/Kg
% Moisture	ASTM D2216-90	1	0.050	0.050	1.37	%
Dry Weight Factor	ASTM D2216-90	1			1.01	%

SS-12 (0-0.5) 1707122-017

Parameters:	Analysis Method	DF	MDL	PQL	Results	Unit
Antimony	6020A	1	0.15	1.2	0.160	mg/Kg
Arsenic	6020A	1	0.25	1.2	16.6	mg/Kg
Barium	6020A	1	1.0	1.2	53.5	mg/Kg
Cobalt	6020A	1	0.25	1.2	5.64	mg/Kg
Copper	6020A	1	0.21	3.0	12.7	mg/Kg
Lead	6020A	1	0.065	1.2	53.1	mg/Kg
Nickel	6020A	1	1.5	6.1	9.05	mg/Kg
Vanadium	6020A	1	0.34	30	21.5	mg/Kg
Zinc	6020A	1	0.85	3.0	21.5	mg/Kg
Chromium	6020A	1	0.12	1.2	20.5	mg/Kg
% Moisture	ASTM D2216-90	1	0.050	0.050	17.5	%
Dry Weight Factor	ASTM D2216-90	1			1.21	%

SS-12 (2.5-3) 1707122-018

Parameters:	Analysis Method	DF	MDL	PQL	Results	Unit
Arsenic	6020A	1	0.22	1.1	4.43	mg/Kg
% Moisture	ASTM D2216-90	1	0.050	0.050	6.33	%
Dry Weight Factor	ASTM D2216-90	1			1.07	%

Torrent LABORATORY, INC.

Sample Result Summary

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date Received: 07/19/17
Date Reported: 07/27/17

SS-13 (0-0.5) 1707122-019

Parameters:	Analysis Method	DF	MDL	PQL	Results	Unit
Arsenic	6020A	1	0.21	1.0	4.64	mg/Kg
Chromium	6020A	1	0.097	1.0	20.9	mg/Kg
Cobalt	6020A	1	0.21	1.0	5.78	mg/Kg
Copper	6020A	1	0.17	2.5	18.8	mg/Kg
Lead	6020A	1	0.054	1.0	13.1	mg/Kg
Nickel	6020A	1	1.2	5.0	10.0	mg/Kg
Vanadium	6020A	1	0.28	25	25.0	mg/Kg
Zinc	6020A	1	0.70	2.5	23.1	mg/Kg
Barium	6020A	10	1.7	2.0	70.0	mg/Kg
% Moisture	ASTM D2216-90	1	0.050	0.050	0.440	%
Dry Weight Factor	ASTM D2216-90	1			1.00	%

SS-14 (0-0.5) 1707122-020

Parameters:	Analysis Method	DF	MDL	PQL	Results	Unit
Antimony	6020A	1	0.12	1.0	0.188	mg/Kg
Arsenic	6020A	1	0.21	1.0	6.88	mg/Kg
Cadmium	6020A	1	0.084	1.0	0.115	mg/Kg
Chromium	6020A	1	0.097	1.0	28.6	mg/Kg
Cobalt	6020A	1	0.21	1.0	6.99	mg/Kg
Copper	6020A	1	0.17	2.5	28.3	mg/Kg
Lead	6020A	1	0.054	1.0	30.2	mg/Kg
Molybdenum	6020A	1	0.13	1.0	0.212	mg/Kg
Nickel	6020A	1	1.2	5.0	12.9	mg/Kg
Vanadium	6020A	1	0.28	25	29.1	mg/Kg
Zinc	6020A	1	0.70	2.5	33.3	mg/Kg
Barium	6020A	10	1.7	2.0	86.1	mg/Kg
% Moisture	ASTM D2216-90	1	0.050	0.050	0.440	%
Dry Weight Factor	ASTM D2216-90	1			1.00	%

Torrent LABORATORY, INC.

Sample Result Summary

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date Received: 07/19/17
Date Reported: 07/27/17

SS-15 (0-0.5) 1707122-021

Parameters:	Analysis Method	DF	MDL	PQL	Results	Unit
Antimony	6020A	1	0.18	1.5	0.462	mg/Kg
Arsenic	6020A	1	0.30	1.5	17.4	mg/Kg
Beryllium	6020A	1	0.23	1.5	0.326	mg/Kg
Cadmium	6020A	1	0.12	1.5	0.183	mg/Kg
Chromium	6020A	1	0.14	1.5	50.8	mg/Kg
Cobalt	6020A	1	0.31	1.5	12.7	mg/Kg
Copper	6020A	1	0.25	3.7	28.4	mg/Kg
Lead	6020A	1	0.078	1.5	42.9	mg/Kg
Molybdenum	6020A	1	0.19	1.5	0.668	mg/Kg
Nickel	6020A	1	1.8	7.3	24.1	mg/Kg
Vanadium	6020A	1	0.41	37	61.7	mg/Kg
Zinc	6020A	1	1.0	3.7	69.7	mg/Kg
Barium	6020A	10	2.4	2.9	128	mg/Kg
% Moisture	ASTM D2216-90	1	0.050	0.050	27.2	%
Dry Weight Factor	ASTM D2216-90	1			1.37	%

SS-16 (0-0.5) 1707122-022

Parameters:	Analysis Method	DF	MDL	PQL	Results	Unit
Antimony	6020A	1	0.13	1.1	0.468	mg/Kg
Arsenic	6020A	1	0.23	1.1	17.0	mg/Kg
Barium	6020A	1	0.90	1.1	43.3	mg/Kg
Beryllium	6020A	1	0.17	1.1	0.193	mg/Kg
Cadmium	6020A	1	0.090	1.1	0.150	mg/Kg
Cobalt	6020A	1	0.23	1.1	19.5	mg/Kg
Copper	6020A	1	0.18	2.7	60.2	mg/Kg
Molybdenum	6020A	1	0.14	1.1	0.416	mg/Kg
Nickel	6020A	1	1.3	5.4	55.8	mg/Kg
Chromium	6020A	25	0.52	5.4	92.1	mg/Kg
Lead	6020A	25	0.29	5.4	121	mg/Kg
Vanadium	6020A	25	1.5	140	144	mg/Kg
Zinc	6020A	25	3.8	14	99.2	mg/Kg
% Moisture	ASTM D2216-90	1	0.050	0.050	5.57	%
Dry Weight Factor	ASTM D2216-90	1			1.06	%

SS-16 (2.5-3) 1707122-023

Parameters:	Analysis Method	DF	MDL	PQL	Results	Unit
Arsenic	6020A	1	0.23	1.1	14.9	mg/Kg
% Moisture	ASTM D2216-90	1	0.050	0.050	10.8	%
Dry Weight Factor	ASTM D2216-90	1			1.12	%

Torrent LABORATORY, INC.

Sample Result Summary

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date Received: 07/19/17
Date Reported: 07/27/17

SS-17 (0-0.5) 1707122-024

Parameters:	Analysis Method	DF	MDL	PQL	Results	Unit
Antimony	6020A	1	0.13	1.1	0.350	mg/Kg
Arsenic	6020A	1	0.23	1.1	13.3	mg/Kg
Beryllium	6020A	1	0.17	1.1	0.188	mg/Kg
Cadmium	6020A	1	0.091	1.1	0.170	mg/Kg
Chromium	6020A	1	0.11	1.1	50.1	mg/Kg
Cobalt	6020A	1	0.23	1.1	10.0	mg/Kg
Copper	6020A	1	0.19	2.7	34.9	mg/Kg
Lead	6020A	1	0.058	1.1	35.1	mg/Kg
Molybdenum	6020A	1	0.14	1.1	0.770	mg/Kg
Nickel	6020A	1	1.4	5.5	20.7	mg/Kg
Vanadium	6020A	1	0.31	27	50.5	mg/Kg
Barium	6020A	10	1.8	2.2	103	mg/Kg
Zinc	6020A	10	1.5	5.5	76.8	mg/Kg
% Moisture	ASTM D2216-90	1	0.050	0.050	1.27	%
Dry Weight Factor	ASTM D2216-90	1			1.01	%

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-101 (0-0.5)	**Lab Sample ID:**	1707122-001A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 13:01		
SDG:			

Prep Method:	7471BP	**Prep Batch Date/Time:**	7/21/17	5:30:00PM
Prep Batch ID:	8348	**Prep Analyst:**	BJAY	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Mercury	SW7471B	1	0.12	0.71	ND		mg/Kg	07/25/17	11:10	BJAY	425634

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-101 (0-0.5)	**Lab Sample ID:**	1707122-001A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 13:01		
SDG:			

Prep Method:	6020S-P	**Prep Batch Date/Time:**	7/21/17	10:15:00AM
Prep Batch ID:	8321	**Prep Analyst:**	BJAY	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
The results shown below are reported using their MDL.											
Antimony	6020A	1	0.12	1.0	ND		mg/Kg	07/21/17	15:37	ERR	425540
Arsenic	6020A	1	0.21	1.0	**3.35**		mg/Kg	07/21/17	15:37	ERR	425540
Barium	6020A	1	0.84	1.0	**24.8**		mg/Kg	07/21/17	15:37	ERR	425540
Beryllium	6020A	1	0.16	1.0	ND		mg/Kg	07/21/17	15:37	ERR	425540
Cadmium	6020A	1	0.084	1.0	ND		mg/Kg	07/21/17	15:37	ERR	425540
Chromium	6020A	1	0.097	1.0	**19.1**		mg/Kg	07/21/17	15:37	ERR	425540
Cobalt	6020A	1	0.21	1.0	**4.19**		mg/Kg	07/21/17	15:37	ERR	425540
Copper	6020A	1	0.17	2.5	**13.3**		mg/Kg	07/21/17	15:37	ERR	425540
Lead	6020A	1	0.054	1.0	**5.33**		mg/Kg	07/21/17	15:37	ERR	425540
Molybdenum	6020A	1	0.13	1.0	ND		mg/Kg	07/21/17	15:37	ERR	425540
Nickel	6020A	1	1.2	5.0	**9.80**		mg/Kg	07/21/17	15:37	ERR	425540
Selenium	6020A	1	0.035	2.5	ND		mg/Kg	07/21/17	15:37	ERR	425540
Thallium	6020A	1	1.00	5.0	ND		mg/Kg	07/21/17	15:37	ERR	425540
Vanadium	6020A	1	0.28	25	**21.3**	J	mg/Kg	07/21/17	15:37	ERR	425540
Zinc	6020A	1	0.70	2.5	**20.3**		mg/Kg	07/21/17	15:37	ERR	425540

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-101 (0-0.5)	**Lab Sample ID:**	1707122-001A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 13:01		
SDG:			

Prep Method:	6020S-P	**Prep Batch Date/Time:**	7/21/17	10:15:00AM
Prep Batch ID:	8321	**Prep Analyst:**	BJAY	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
The results shown below are reported using their MDL.											
Silver	6020A	1	0.14	1.4	ND		mg/Kg	07/25/17	12:02	ERR	425658

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-101 (0-0.5)	**Lab Sample ID:**	1707122-001A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 13:01		
SDG:			

Prep Method:	3546_OCP	**Prep Batch Date/Time:**	7/22/17 2:15:00PM
Prep Batch ID:	8352	**Prep Analyst:**	SNARASIMHAN

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
The results shown below are reported using their MDL.											
alpha-BHC	SW8081B	3	0.54	8.5	ND		ug/Kg	07/26/17	22:14	LA	425689
gamma-BHC (Lindane)	SW8081B	3	0.68	8.5	ND		ug/Kg	07/26/17	22:14	LA	425689
beta-BHC	SW8081B	3	1.3	8.5	ND		ug/Kg	07/26/17	22:14	LA	425689
delta-BHC	SW8081B	3	0.66	8.5	ND		ug/Kg	07/26/17	22:14	LA	425689
Heptachlor	SW8081B	3	0.45	8.5	ND		ug/Kg	07/26/17	22:14	LA	425689
Aldrin	SW8081B	3	0.83	8.5	ND		ug/Kg	07/26/17	22:14	LA	425689
Heptachlor Epoxide	SW8081B	3	0.33	8.5	ND		ug/Kg	07/26/17	22:14	LA	425689
gamma-Chlordane	SW8081B	3	0.69	8.5	ND		ug/Kg	07/26/17	22:14	LA	425689
alpha-Chlordane	SW8081B	3	0.74	8.5	ND		ug/Kg	07/26/17	22:14	LA	425689
4,4-DDE	SW8081B	3	0.83	8.5	**37.8**		ug/Kg	07/26/17	22:14	LA	425689
Endosulfan I	SW8081B	3	0.78	8.5	ND		ug/Kg	07/26/17	22:14	LA	425689
Dieldrin	SW8081B	3	0.63	8.5	ND		ug/Kg	07/26/17	22:14	LA	425689
Endrin	SW8081B	3	0.80	8.5	ND		ug/Kg	07/26/17	22:14	LA	425689
4,4-DDD	SW8081B	3	2.4	8.5	ND		ug/Kg	07/26/17	22:14	LA	425689
Endosulfan II	SW8081B	3	2.5	8.5	ND		ug/Kg	07/26/17	22:14	LA	425689
4,4-DDT	SW8081B	3	0.55	8.5	**3.01**	J	ug/Kg	07/26/17	22:14	LA	425689
Endrin Aldehyde	SW8081B	3	0.64	8.5	ND		ug/Kg	07/26/17	22:14	LA	425689
Methoxychlor	SW8081B	3	0.85	8.5	ND		ug/Kg	07/26/17	22:14	LA	425689
Endosulfan Sulfate	SW8081B	3	0.50	8.5	ND		ug/Kg	07/26/17	22:14	LA	425689
Endrin Ketone	SW8081B	3	0.40	8.5	ND		ug/Kg	07/26/17	22:14	LA	425689
Chlordane	SW8081B	3	9.0	85	ND		ug/Kg	07/26/17	22:14	LA	425689
Toxaphene	SW8081B	3	36	210	ND		ug/Kg	07/26/17	22:14	LA	425689
			Acceptance Limits								
TCMX (S)	SW8081B		48 - 125		**76.4**		%	07/26/17	22:14	LA	425689
DCBP (S)	SW8081B		38 - 135		**87.0**		%	07/26/17	22:14	LA	425689

NOTE: Sample diluted due to nature of the matrix (dark, viscous extract)

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-101 (0-0.5)	**Lab Sample ID:**	1707122-001A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 13:01		
SDG:			

Prep Method:	% Water-P	**Prep Batch Date/Time:**	7/21/17	6:15:00PM
Prep Batch ID:	8446	**Prep Analyst:**	PHUFANO	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
% Moisture	ASTM D2216-90	1	0.050	0.050	**29.5**		%	07/21/17	18:15	PH	425657
Dry Weight Factor	ASTM D2216-90	1			**1.42**		-	07/21/17	18:15	PH	425657

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-102 (0-0.5)	**Lab Sample ID:**	1707122-002A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 13:02		
SDG:			

Prep Method:	7471BP	**Prep Batch Date/Time:**	7/21/17	5:30:00PM
Prep Batch ID:	8348	**Prep Analyst:**	BJAY	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Mercury	SW7471B	1	0.091	0.55	ND		mg/Kg	07/25/17	11:16	BJAY	425634

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-102 (0-0.5)	**Lab Sample ID:**	1707122-002A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 13:02		
SDG:			

Prep Method:	6020S-P	**Prep Batch Date/Time:**	7/21/17	10:15:00AM
Prep Batch ID:	8321	**Prep Analyst:**	BJAY	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
The results shown below are reported using their MDL.											
Antimony	6020A	1	0.12	1.0	**0.356**	J	mg/Kg	07/21/17	16:02	ERR	425540
Arsenic	6020A	1	0.21	1.0	**8.49**		mg/Kg	07/21/17	16:02	ERR	425540
Beryllium	6020A	1	0.16	1.0	**0.172**	J	mg/Kg	07/21/17	16:02	ERR	425540
Cadmium	6020A	1	0.084	1.0	**0.165**	J	mg/Kg	07/21/17	16:02	ERR	425540
Chromium	6020A	1	0.097	1.0	**23.7**		mg/Kg	07/21/17	16:02	ERR	425540
Cobalt	6020A	1	0.21	1.0	**6.07**		mg/Kg	07/21/17	16:02	ERR	425540
Copper	6020A	1	0.17	2.5	**22.9**		mg/Kg	07/21/17	16:02	ERR	425540
Lead	6020A	1	0.054	1.0	**38.9**		mg/Kg	07/21/17	16:02	ERR	425540
Molybdenum	6020A	1	0.13	1.0	**0.846**	J	mg/Kg	07/21/17	16:02	ERR	425540
Nickel	6020A	1	1.2	5.0	**13.8**		mg/Kg	07/21/17	16:02	ERR	425540
Selenium	6020A	1	0.035	2.5	ND		mg/Kg	07/21/17	16:02	ERR	425540
Thallium	6020A	1	1.00	5.0	ND		mg/Kg	07/21/17	16:02	ERR	425540
Vanadium	6020A	1	0.28	25	**40.7**		mg/Kg	07/21/17	16:02	ERR	425540

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-102 (0-0.5)	**Lab Sample ID:**	1707122-002A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 13:02		
SDG:			

Prep Method:	6020S-P	**Prep Batch Date/Time:**	7/21/17	10:15:00AM
Prep Batch ID:	8321	**Prep Analyst:**	BJAY	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
The results shown below are reported using their MDL.											
Silver	6020A	1	0.11	1.1	**0.250**	J	mg/Kg	07/25/17	12:16	ERR	425658

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-102 (0-0.5)	**Lab Sample ID:**	1707122-002A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 13:02		
SDG:			

Prep Method:	6020S-P	**Prep Batch Date/Time:**	7/21/17	10:15:00AM
Prep Batch ID:	8321	**Prep Analyst:**	BJAY	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Barium	6020A	10	1.7	2.0	**87.5**		mg/Kg	07/21/17	19:57	ERR	425540
Zinc	6020A	10	1.4	5.0	**112**		mg/Kg	07/21/17	19:57	ERR	425540

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-102 (0-0.5)	**Lab Sample ID:**	1707122-002A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 13:02		
SDG:			

Prep Method:	3546_PCB	**Prep Batch Date/Time:**	7/21/17 12:17:00PM
Prep Batch ID:	8323	**Prep Analyst:**	SNARASIMHAN

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
The results shown below are reported using their MDL.											
Aroclor1016	SW8082A	1	57	110	ND		ug/Kg	07/24/17	21:47	mk	425625
Aroclor1221	SW8082A	1	5.4	110	ND		ug/Kg	07/24/17	21:47	mk	425625
Aroclor1232	SW8082A	1	18	110	ND		ug/Kg	07/24/17	21:47	mk	425625
Aroclor1242	SW8082A	1	3.2	110	ND		ug/Kg	07/24/17	21:47	mk	425625
Aroclor1248	SW8082A	1	2.2	110	ND		ug/Kg	07/24/17	21:47	mk	425625
Aroclor1254	SW8082A	1	2.2	110	ND		ug/Kg	07/24/17	21:47	mk	425625
Aroclor1260	SW8082A	1	39	110	ND		ug/Kg	07/24/17	21:47	mk	425625
			Acceptance Limits								
TCMX (S)	SW8082A		48 - 125		**87.0**		%	07/24/17	21:47	mk	425625
DCBP (S)	SW8082A		48 - 135		**78.0**		%	07/24/17	21:47	mk	425625

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-102 (0-0.5)	**Lab Sample ID:**	1707122-002A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 13:02		
SDG:			

Prep Method:	3546_OCP	**Prep Batch Date/Time:**	7/22/17 2:15:00PM
Prep Batch ID:	8352	**Prep Analyst:**	SNARASIMHAN

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
The results shown below are reported using their MDL.											
alpha-BHC	SW8081B	3	0.42	6.5	ND		ug/Kg	07/26/17	22:30	LA	425689
gamma-BHC (Lindane)	SW8081B	3	0.52	6.5	ND		ug/Kg	07/26/17	22:30	LA	425689
beta-BHC	SW8081B	3	1.0	6.5	ND		ug/Kg	07/26/17	22:30	LA	425689
delta-BHC	SW8081B	3	0.51	6.5	ND		ug/Kg	07/26/17	22:30	LA	425689
Heptachlor	SW8081B	3	0.34	6.5	ND		ug/Kg	07/26/17	22:30	LA	425689
Aldrin	SW8081B	3	0.64	6.5	ND		ug/Kg	07/26/17	22:30	LA	425689
Heptachlor Epoxide	SW8081B	3	0.26	6.5	ND		ug/Kg	07/26/17	22:30	LA	425689
gamma-Chlordane	SW8081B	3	0.53	6.5	ND		ug/Kg	07/26/17	22:30	LA	425689
alpha-Chlordane	SW8081B	3	0.57	6.5	ND		ug/Kg	07/26/17	22:30	LA	425689
4,4-DDE	SW8081B	3	0.63	6.5	**45.2**		ug/Kg	07/26/17	22:30	LA	425689
Endosulfan I	SW8081B	3	0.60	6.5	ND		ug/Kg	07/26/17	22:30	LA	425689
Dieldrin	SW8081B	3	0.48	6.5	ND		ug/Kg	07/26/17	22:30	LA	425689
Endrin	SW8081B	3	0.61	6.5	ND		ug/Kg	07/26/17	22:30	LA	425689
4,4-DDD	SW8081B	3	1.8	6.5	ND		ug/Kg	07/26/17	22:30	LA	425689
Endosulfan II	SW8081B	3	1.9	6.5	ND		ug/Kg	07/26/17	22:30	LA	425689
4,4-DDT	SW8081B	3	0.42	6.5	**12.5**		ug/Kg	07/26/17	22:30	LA	425689
Endrin Aldehyde	SW8081B	3	0.49	6.5	ND		ug/Kg	07/26/17	22:30	LA	425689
Methoxychlor	SW8081B	3	0.65	6.5	ND		ug/Kg	07/26/17	22:30	LA	425689
Endosulfan Sulfate	SW8081B	3	0.38	6.5	ND		ug/Kg	07/26/17	22:30	LA	425689
Endrin Ketone	SW8081B	3	0.31	6.5	ND		ug/Kg	07/26/17	22:30	LA	425689
Chlordane	SW8081B	3	6.9	65	ND		ug/Kg	07/26/17	22:30	LA	425689
Toxaphene	SW8081B	3	28	160	ND		ug/Kg	07/26/17	22:30	LA	425689
			Acceptance Limits								
TCMX (S)	SW8081B		48 - 125		**53.9**		%	07/26/17	22:30	LA	425689
DCBP (S)	SW8081B		38 - 135		**60.7**		%	07/26/17	22:30	LA	425689

NOTE: Sample diluted due to nature of the matrix (dark, viscous extract)

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-102 (0-0.5)	**Lab Sample ID:**	1707122-002A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 13:02		
SDG:			

Prep Method:	% Water-P	**Prep Batch Date/Time:**	7/21/17	6:15:00PM
Prep Batch ID:	8446	**Prep Analyst:**	PHUFANO	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
% Moisture	ASTM D2216-90	1	0.050	0.050	**7.89**		%	07/21/17	18:15	PH	425657
Dry Weight Factor	ASTM D2216-90	1			**1.09**		-	07/21/17	18:15	PH	425657

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-1 (0-0.5)	**Lab Sample ID:**	1707122-003A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 14:26		
SDG:			

Prep Method:	7471BP	**Prep Batch Date/Time:**	7/21/17	5:30:00PM
Prep Batch ID:	8348	**Prep Analyst:**	BJAY	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Mercury	SW7471B	1	0.12	0.70	ND		mg/Kg	07/25/17	11:21	BJAY	425634

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-1 (0-0.5)	**Lab Sample ID:**	1707122-003A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 14:26		
SDG:			

Prep Method:	6020S-P	**Prep Batch Date/Time:**	7/21/17	10:15:00AM
Prep Batch ID:	8321	**Prep Analyst:**	BJAY	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
The results shown below are reported using their MDL.											
Antimony	6020A	1	0.12	1.0	**0.165**	J	mg/Kg	07/21/17	16:18	ERR	425540
Arsenic	6020A	1	0.21	1.0	**9.54**		mg/Kg	07/21/17	16:18	ERR	425540
Barium	6020A	1	0.84	1.0	**59.7**		mg/Kg	07/21/17	16:18	ERR	425540
Beryllium	6020A	1	0.16	1.0	ND		mg/Kg	07/21/17	16:18	ERR	425540
Cadmium	6020A	1	0.084	1.0	**0.102**	J	mg/Kg	07/21/17	16:18	ERR	425540
Chromium	6020A	1	0.097	1.0	**28.3**		mg/Kg	07/21/17	16:18	ERR	425540
Cobalt	6020A	1	0.21	1.0	**6.78**		mg/Kg	07/21/17	16:18	ERR	425540
Copper	6020A	1	0.17	2.5	**23.1**		mg/Kg	07/21/17	16:18	ERR	425540
Lead	6020A	1	0.054	1.0	**17.6**		mg/Kg	07/21/17	16:18	ERR	425540
Molybdenum	6020A	1	0.13	1.0	**0.252**	J	mg/Kg	07/21/17	16:18	ERR	425540
Nickel	6020A	1	1.2	5.0	**13.6**		mg/Kg	07/21/17	16:18	ERR	425540
Selenium	6020A	1	0.035	2.5	ND		mg/Kg	07/21/17	16:18	ERR	425540
Thallium	6020A	1	1.00	5.0	ND		mg/Kg	07/21/17	16:18	ERR	425540
Vanadium	6020A	1	0.28	25	**30.5**		mg/Kg	07/21/17	16:18	ERR	425540
Zinc	6020A	1	0.70	2.5	**39.9**		mg/Kg	07/21/17	16:18	ERR	425540

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-1 (0-0.5)	**Lab Sample ID:**	1707122-003A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 14:26		
SDG:			

Prep Method:	6020S-P	**Prep Batch Date/Time:**	7/21/17	10:15:00AM
Prep Batch ID:	8321	**Prep Analyst:**	BJAY	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
The results shown below are reported using their MDL.											
Silver	6020A	1	0.14	1.4	ND		mg/Kg	07/25/17	12:25	ERR	425658

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-1 (0-0.5)	**Lab Sample ID:**	1707122-003A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 14:26		
SDG:			

Prep Method:	% Water-P	**Prep Batch Date/Time:**	7/21/17	6:15:00PM
Prep Batch ID:	8446	**Prep Analyst:**	PHUFANO	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
% Moisture	ASTM D2216-90	1	0.050	0.050	**28.4**		%	07/21/17	18:15	PH	425657
Dry Weight Factor	ASTM D2216-90	1			**1.40**		-	07/21/17	18:15	PH	425657

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-2 (0-0.5)	**Lab Sample ID:**	1707122-004A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 14:23		
SDG:			

Prep Method:	7471BP	**Prep Batch Date/Time:**	7/21/17	5:30:00PM
Prep Batch ID:	8348	**Prep Analyst:**	BJAY	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Mercury	SW7471B	1	0.11	0.67	ND		mg/Kg	07/25/17	11:29	BJAY	425634

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-2 (0-0.5)	**Lab Sample ID:**	1707122-004A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 14:23		
SDG:			

Prep Method:	6020S-P	**Prep Batch Date/Time:**	7/21/17	10:15:00AM
Prep Batch ID:	8321	**Prep Analyst:**	BJAY	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
The results shown below are reported using their MDL.											
Antimony	6020A	1	0.12	1.0	**0.322**	J	mg/Kg	07/25/17	18:00	ERR	425540
Arsenic	6020A	1	0.21	1.0	**12.2**		mg/Kg	07/25/17	18:00	ERR	425540
Beryllium	6020A	1	0.16	1.0	**0.173**	J	mg/Kg	07/25/17	18:00	ERR	425540
Cadmium	6020A	1	0.084	1.0	**0.156**	J	mg/Kg	07/25/17	18:00	ERR	425540
Chromium	6020A	1	0.097	1.0	**45.9**		mg/Kg	07/25/17	18:00	ERR	425540
Cobalt	6020A	1	0.21	1.0	**9.20**		mg/Kg	07/25/17	18:00	ERR	425540
Copper	6020A	1	0.17	2.5	**32.1**		mg/Kg	07/25/17	18:00	ERR	425540
Lead	6020A	1	0.054	1.0	**32.8**		mg/Kg	07/25/17	18:00	ERR	425540
Molybdenum	6020A	1	0.13	1.0	**0.706**	J	mg/Kg	07/25/17	18:00	ERR	425540
Nickel	6020A	1	1.2	5.0	**19.0**		mg/Kg	07/25/17	18:00	ERR	425540
Selenium	6020A	1	0.035	2.5	ND		mg/Kg	07/25/17	18:00	ERR	425540
Thallium	6020A	1	1.00	5.0	ND		mg/Kg	07/25/17	18:00	ERR	425540
Vanadium	6020A	1	0.28	25	**46.4**		mg/Kg	07/25/17	18:00	ERR	425540
Zinc	6020A	1	0.70	2.5	**68.4**		mg/Kg	07/25/17	18:00	ERR	425540

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-2 (0-0.5)	**Lab Sample ID:**	1707122-004A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 14:23		
SDG:			

Prep Method:	6020S-P	**Prep Batch Date/Time:**	7/21/17	10:15:00AM
Prep Batch ID:	8321	**Prep Analyst:**	BJAY	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
The results shown below are reported using their MDL.											
Barium	6020A	1	1.1	1.3	**81.9**		mg/Kg	07/25/17	12:44	ERR	425658
Silver	6020A	1	0.13	1.3	ND		mg/Kg	07/25/17	12:44	ERR	425658

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-2 (0-0.5)	**Lab Sample ID:**	1707122-004A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 14:23		
SDG:			

Prep Method:	% Water-P	**Prep Batch Date/Time:**	7/21/17	6:15:00PM
Prep Batch ID:	8446	**Prep Analyst:**	PHUFANO	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
% Moisture	ASTM D2216-90	1	0.050	0.050	**25.5**		%	07/21/17	18:15	PH	425657
Dry Weight Factor	ASTM D2216-90	1			**1.34**		-	07/21/17	18:15	PH	425657

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-3 (0-0.5)	**Lab Sample ID:**	1707122-005A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 16:18		
SDG:			

Prep Method:	7471BP	**Prep Batch Date/Time:**	7/21/17	5:30:00PM
Prep Batch ID:	8348	**Prep Analyst:**	BJAY	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Mercury	SW7471B	1	0.13	0.79	ND		mg/Kg	07/25/17	11:31	BJAY	425634

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-3 (0-0.5)	**Lab Sample ID:**	1707122-005A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 16:18		
SDG:			

Prep Method:	6020S-P	**Prep Batch Date/Time:**	7/21/17	10:15:00AM
Prep Batch ID:	8321	**Prep Analyst:**	BJAY	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
The results shown below are reported using their MDL.											
Antimony	6020A	1	0.19	1.6	**0.238**	J	mg/Kg	07/21/17	17:00	ERR	425540
Arsenic	6020A	1	0.33	1.6	**16.3**		mg/Kg	07/21/17	17:00	ERR	425540
Barium	6020A	1	1.3	1.6	**76.9**		mg/Kg	07/21/17	17:00	ERR	425540
Beryllium	6020A	1	0.25	1.6	ND		mg/Kg	07/21/17	17:00	ERR	425540
Cadmium	6020A	1	0.13	1.6	ND		mg/Kg	07/21/17	17:00	ERR	425540
Chromium	6020A	1	0.15	1.6	**42.3**		mg/Kg	07/21/17	17:00	ERR	425540
Cobalt	6020A	1	0.33	1.6	**11.0**		mg/Kg	07/21/17	17:00	ERR	425540
Copper	6020A	1	0.27	3.9	**35.4**		mg/Kg	07/21/17	17:00	ERR	425540
Lead	6020A	1	0.084	1.6	**26.6**		mg/Kg	07/21/17	17:00	ERR	425540
Molybdenum	6020A	1	0.20	1.6	**0.462**	J	mg/Kg	07/21/17	17:00	ERR	425540
Nickel	6020A	1	2.0	7.9	**19.9**		mg/Kg	07/21/17	17:00	ERR	425540
Selenium	6020A	1	0.054	3.9	ND		mg/Kg	07/21/17	17:00	ERR	425540
Thallium	6020A	1	1.6	7.9	ND		mg/Kg	07/21/17	17:00	ERR	425540
Vanadium	6020A	1	0.44	39	**50.4**		mg/Kg	07/21/17	17:00	ERR	425540
Zinc	6020A	1	1.1	3.9	**53.4**		mg/Kg	07/21/17	17:00	ERR	425540

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-3 (0-0.5)	**Lab Sample ID:**	1707122-005A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 16:18		
SDG:			

Prep Method:	6020S-P	**Prep Batch Date/Time:**	7/21/17	10:15:00AM
Prep Batch ID:	8321	**Prep Analyst:**	BJAY	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
The results shown below are reported using their MDL.											
Silver	6020A	1	0.15	1.6	ND		mg/Kg	07/25/17	12:48	ERR	425658

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-3 (0-0.5)	**Lab Sample ID:**	1707122-005A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 16:18		
SDG:			

Prep Method:	% Water-P	**Prep Batch Date/Time:**	7/21/17	6:15:00PM
Prep Batch ID:	8446	**Prep Analyst:**	PHUFANO	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
% Moisture	ASTM D2216-90	1	0.050	0.050	**36.5**		%	07/21/17	18:15	PH	425657
Dry Weight Factor	ASTM D2216-90	1			**1.57**		-	07/21/17	18:15	PH	425657

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-4 (0-0.5)	**Lab Sample ID:**	1707122-006A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 13:12		
SDG:			

Prep Method:	7471BP	**Prep Batch Date/Time:**	7/21/17	5:30:00PM
Prep Batch ID:	8348	**Prep Analyst:**	BJAY	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Mercury	SW7471B	1	0.084	0.51	ND		mg/Kg	07/25/17	11:33	BJAY	425634

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-4 (0-0.5)	**Lab Sample ID:**	1707122-006A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 13:12		
SDG:			

Prep Method:	6020S-P	**Prep Batch Date/Time:**	7/21/17	10:15:00AM
Prep Batch ID:	8321	**Prep Analyst:**	BJAY	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
The results shown below are reported using their MDL.											
Antimony	6020A	1	0.12	1.0	**0.220**	J	mg/Kg	07/21/17	17:09	ERR	425540
Arsenic	6020A	1	0.21	1.0	**14.8**		mg/Kg	07/21/17	17:09	ERR	425540
Beryllium	6020A	1	0.16	1.0	**0.164**	J	mg/Kg	07/21/17	17:09	ERR	425540
Cadmium	6020A	1	0.084	1.0	**0.105**	J	mg/Kg	07/21/17	17:09	ERR	425540
Chromium	6020A	1	0.098	1.0	**32.6**		mg/Kg	07/21/17	17:09	ERR	425540
Cobalt	6020A	1	0.21	1.0	**8.47**		mg/Kg	07/21/17	17:09	ERR	425540
Copper	6020A	1	0.17	2.5	**31.9**		mg/Kg	07/21/17	17:09	ERR	425540
Lead	6020A	1	0.054	1.0	**31.0**		mg/Kg	07/21/17	17:09	ERR	425540
Molybdenum	6020A	1	0.13	1.0	**0.373**	J	mg/Kg	07/21/17	17:09	ERR	425540
Nickel	6020A	1	1.3	5.1	**14.4**		mg/Kg	07/21/17	17:09	ERR	425540
Selenium	6020A	1	0.035	2.5	ND		mg/Kg	07/21/17	17:09	ERR	425540
Thallium	6020A	1	1.0	5.1	ND		mg/Kg	07/21/17	17:09	ERR	425540
Vanadium	6020A	1	0.28	25	**36.4**		mg/Kg	07/21/17	17:09	ERR	425540
Zinc	6020A	1	0.71	2.5	**34.7**		mg/Kg	07/21/17	17:09	ERR	425540

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-4 (0-0.5)	**Lab Sample ID:**	1707122-006A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 13:12		
SDG:			

Prep Method:	6020S-P	**Prep Batch Date/Time:**	7/21/17	10:15:00AM
Prep Batch ID:	8321	**Prep Analyst:**	BJAY	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
The results shown below are reported using their MDL.											
Silver	6020A	1	0.099	1.0	**0.406**	J	mg/Kg	07/25/17	12:53	ERR	425658

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-4 (0-0.5)	**Lab Sample ID:**	1707122-006A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 13:12		
SDG:			

Prep Method:	6020S-P	**Prep Batch Date/Time:**	7/21/17	10:15:00AM
Prep Batch ID:	8321	**Prep Analyst:**	BJAY	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Barium	6020A	10	1.7	2.0	**72.3**		mg/Kg	07/21/17	20:13	ERR	425540

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-4 (0-0.5)	**Lab Sample ID:**	1707122-006A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 13:12		
SDG:			

Prep Method:	% Water-P	**Prep Batch Date/Time:**	7/21/17	6:15:00PM
Prep Batch ID:	8446	**Prep Analyst:**	PHUFANO	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
% Moisture	ASTM D2216-90	1	0.050	0.050	**1.21**		%	07/21/17	18:15	PH	425657
Dry Weight Factor	ASTM D2216-90	1			**1.01**		-	07/21/17	18:15	PH	425657

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-4 (2.5-3)	**Lab Sample ID:**	1707122-007A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 13:17		
SDG:			

Prep Method:	6020S-P	**Prep Batch Date/Time:**	7/20/17	11:40:00AM
Prep Batch ID:	8276	**Prep Analyst:**	BJAY	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Arsenic	6020A	1	0.28	1.3	**16.1**		mg/Kg	07/20/17	17:37	ERR	425519

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-4 (2.5-3)	**Lab Sample ID:**	1707122-007A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 13:17		
SDG:			

Prep Method:	% Water-P	**Prep Batch Date/Time:**	7/21/17	6:15:00PM
Prep Batch ID:	8446	**Prep Analyst:**	PHUFANO	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
% Moisture	ASTM D2216-90	1	0.050	0.050	**25.6**		%	07/21/17	18:15	PH	425657
Dry Weight Factor	ASTM D2216-90	1			**1.34**		-	07/21/17	18:15	PH	425657

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-5 (0-0.5)	**Lab Sample ID:**	1707122-008A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 12:50		
SDG:			

Prep Method:	7471BP	**Prep Batch Date/Time:**	7/21/17	5:30:00PM
Prep Batch ID:	8348	**Prep Analyst:**	BJAY	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Mercury	SW7471B	1	0.084	0.51	ND		mg/Kg	07/25/17	11:35	BJAY	425634

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-5 (0-0.5)	**Lab Sample ID:**	1707122-008A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 12:50		
SDG:			

Prep Method:	6020S-P	**Prep Batch Date/Time:**	7/21/17	10:15:00AM
Prep Batch ID:	8321	**Prep Analyst:**	BJAY	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
The results shown below are reported using their MDL.											
Antimony	6020A	1	0.12	1.0	**0.154**	J	mg/Kg	07/21/17	17:17	ERR	425540
Arsenic	6020A	1	0.21	1.0	**8.60**		mg/Kg	07/21/17	17:17	ERR	425540
Beryllium	6020A	1	0.16	1.0	ND		mg/Kg	07/21/17	17:17	ERR	425540
Cadmium	6020A	1	0.084	1.0	ND		mg/Kg	07/21/17	17:17	ERR	425540
Chromium	6020A	1	0.098	1.0	**22.3**		mg/Kg	07/21/17	17:17	ERR	425540
Cobalt	6020A	1	0.21	1.0	**5.69**		mg/Kg	07/21/17	17:17	ERR	425540
Copper	6020A	1	0.17	2.5	**21.6**		mg/Kg	07/21/17	17:17	ERR	425540
Lead	6020A	1	0.054	1.0	**32.1**		mg/Kg	07/21/17	17:17	ERR	425540
Molybdenum	6020A	1	0.13	1.0	**0.146**	J	mg/Kg	07/21/17	17:17	ERR	425540
Nickel	6020A	1	1.3	5.1	**10.4**		mg/Kg	07/21/17	17:17	ERR	425540
Selenium	6020A	1	0.035	2.5	ND		mg/Kg	07/21/17	17:17	ERR	425540
Thallium	6020A	1	1.0	5.1	ND		mg/Kg	07/21/17	17:17	ERR	425540
Vanadium	6020A	1	0.28	25	**24.3**	J	mg/Kg	07/21/17	17:17	ERR	425540
Zinc	6020A	1	0.71	2.5	**25.2**		mg/Kg	07/21/17	17:17	ERR	425540

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-5 (0-0.5)	**Lab Sample ID:**	1707122-008A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 12:50		
SDG:			

Prep Method:	6020S-P	**Prep Batch Date/Time:**	7/21/17	10:15:00AM
Prep Batch ID:	8321	**Prep Analyst:**	BJAY	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
The results shown below are reported using their MDL.											
Silver	6020A	1	0.099	1.0	ND		mg/Kg	07/25/17	12:58	ERR	425658

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-5 (0-0.5)	**Lab Sample ID:**	1707122-008A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 12:50		
SDG:			

Prep Method:	6020S-P	**Prep Batch Date/Time:**	7/21/17	10:15:00AM
Prep Batch ID:	8321	**Prep Analyst:**	BJAY	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Barium	6020A	10	1.7	2.0	**71.3**		mg/Kg	07/21/17	20:22	ERR	425540

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-5 (0-0.5)	**Lab Sample ID:**	1707122-008A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 12:50		
SDG:			

Prep Method:	% Water-P	**Prep Batch Date/Time:**	7/21/17	6:15:00PM
Prep Batch ID:	8446	**Prep Analyst:**	PHUFANO	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
% Moisture	ASTM D2216-90	1	0.050	0.050	**0.680**		%	07/21/17	18:15	PH	425657
Dry Weight Factor	ASTM D2216-90	1			**1.01**		-	07/21/17	18:15	PH	425657

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-6 (0-0.5)	**Lab Sample ID:**	1707122-009A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 12:14		
SDG:			

Prep Method:	7471BP	**Prep Batch Date/Time:**	7/21/17	5:30:00PM
Prep Batch ID:	8348	**Prep Analyst:**	BJAY	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Mercury	SW7471B	1	0.10	0.63	ND		mg/Kg	07/25/17	11:37	BJAY	425634

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-6 (0-0.5)	**Lab Sample ID:**	1707122-009A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 12:14		
SDG:			

Prep Method:	6020S-P	**Prep Batch Date/Time:**	7/21/17	10:15:00AM
Prep Batch ID:	8321	**Prep Analyst:**	BJAY	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
The results shown below are reported using their MDL.											
Antimony	6020A	1	0.15	1.3	**0.233**	J	mg/Kg	07/21/17	17:26	ERR	425540
Arsenic	6020A	1	0.26	1.3	**11.4**		mg/Kg	07/21/17	17:26	ERR	425540
Beryllium	6020A	1	0.20	1.3	ND		mg/Kg	07/21/17	17:26	ERR	425540
Cadmium	6020A	1	0.10	1.3	**0.147**	J	mg/Kg	07/21/17	17:26	ERR	425540
Chromium	6020A	1	0.12	1.3	**34.3**		mg/Kg	07/21/17	17:26	ERR	425540
Cobalt	6020A	1	0.26	1.3	**8.90**		mg/Kg	07/21/17	17:26	ERR	425540
Copper	6020A	1	0.21	3.1	**29.7**		mg/Kg	07/21/17	17:26	ERR	425540
Lead	6020A	1	0.067	1.3	**31.2**		mg/Kg	07/21/17	17:26	ERR	425540
Molybdenum	6020A	1	0.16	1.3	**0.298**	J	mg/Kg	07/21/17	17:26	ERR	425540
Nickel	6020A	1	1.6	6.3	**18.4**		mg/Kg	07/21/17	17:26	ERR	425540
Selenium	6020A	1	0.043	3.1	ND		mg/Kg	07/21/17	17:26	ERR	425540
Vanadium	6020A	1	0.35	31	**40.8**		mg/Kg	07/21/17	17:26	ERR	425540
Zinc	6020A	1	0.88	3.1	**42.2**		mg/Kg	07/21/17	17:26	ERR	425540

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-6 (0-0.5)	**Lab Sample ID:**	1707122-009A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 12:14		
SDG:			

Prep Method:	6020S-P	**Prep Batch Date/Time:**	7/21/17	10:15:00AM
Prep Batch ID:	8321	**Prep Analyst:**	BJAY	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
The results shown below are reported using their MDL.											
Silver	6020A	1	0.12	1.3	ND		mg/Kg	07/25/17	13:02	ERR	425658
Thallium	6020A	1	1.2	6.3	ND		mg/Kg	07/25/17	13:02	ERR	425658

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-6 (0-0.5)	**Lab Sample ID:**	1707122-009A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 12:14		
SDG:			

Prep Method:	6020S-P	**Prep Batch Date/Time:**	7/21/17	10:15:00AM
Prep Batch ID:	8321	**Prep Analyst:**	BJAY	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Barium	6020A	10	2.1	2.5	**79.9**		mg/Kg	07/21/17	20:30	ERR	425540

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-6 (0-0.5)	**Lab Sample ID:**	1707122-009A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 12:14		
SDG:			

Prep Method:	% Water-P	**Prep Batch Date/Time:**	7/21/17	6:15:00PM
Prep Batch ID:	8446	**Prep Analyst:**	PHUFANO	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
% Moisture	ASTM D2216-90	1	0.050	0.050	**19.9**		%	07/21/17	18:15	PH	425657
Dry Weight Factor	ASTM D2216-90	1			**1.25**		-	07/21/17	18:15	PH	425657

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-6 (2.5-3)	**Lab Sample ID:**	1707122-010A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 12:20		
SDG:			

Prep Method:	6020S-P	**Prep Batch Date/Time:**	7/20/17	11:40:00AM
Prep Batch ID:	8276	**Prep Analyst:**	BJAY	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Arsenic	6020A	1	0.24	1.1	**6.38**		mg/Kg	07/20/17	17:50	ERR	425519

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-6 (2.5-3)	**Lab Sample ID:**	1707122-010A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 12:20		
SDG:			

Prep Method:	% Water-P	**Prep Batch Date/Time:**	7/21/17	6:15:00PM
Prep Batch ID:	8446	**Prep Analyst:**	PHUFANO	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
% Moisture	ASTM D2216-90	1	0.050	0.050	**12.1**		%	07/21/17	18:15	PH	425657
Dry Weight Factor	ASTM D2216-90	1			**1.14**		-	07/21/17	18:15	PH	425657

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-7 (0-0.5)	**Lab Sample ID:**	1707122-011A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 12:45		
SDG:			

Prep Method:	7471BP	**Prep Batch Date/Time:**	7/21/17	5:30:00PM
Prep Batch ID:	8348	**Prep Analyst:**	BJAY	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Mercury	SW7471B	1	0.10	0.60	ND		mg/Kg	07/25/17	11:39	BJAY	425634

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-7 (0-0.5)	**Lab Sample ID:**	1707122-011A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 12:45		
SDG:			

Prep Method:	6020S-P	**Prep Batch Date/Time:**	7/21/17	10:15:00AM
Prep Batch ID:	8321	**Prep Analyst:**	BJAY	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
The results shown below are reported using their MDL.											
Antimony	6020A	1	0.14	1.2	**0.197**	J	mg/Kg	07/21/17	17:34	ERR	425540
Arsenic	6020A	1	0.25	1.2	**8.04**		mg/Kg	07/21/17	17:34	ERR	425540
Beryllium	6020A	1	0.19	1.2	ND		mg/Kg	07/21/17	17:34	ERR	425540
Cadmium	6020A	1	0.10	1.2	**0.109**	J	mg/Kg	07/21/17	17:34	ERR	425540
Chromium	6020A	1	0.12	1.2	**30.7**		mg/Kg	07/21/17	17:34	ERR	425540
Cobalt	6020A	1	0.25	1.2	**7.79**		mg/Kg	07/21/17	17:34	ERR	425540
Copper	6020A	1	0.20	3.0	**31.1**		mg/Kg	07/21/17	17:34	ERR	425540
Lead	6020A	1	0.064	1.2	**28.0**		mg/Kg	07/21/17	17:34	ERR	425540
Molybdenum	6020A	1	0.16	1.2	**0.250**	J	mg/Kg	07/21/17	17:34	ERR	425540
Nickel	6020A	1	1.5	6.0	**14.5**		mg/Kg	07/21/17	17:34	ERR	425540
Selenium	6020A	1	0.041	3.0	ND		mg/Kg	07/21/17	17:34	ERR	425540
Vanadium	6020A	1	0.34	30	**34.3**		mg/Kg	07/21/17	17:34	ERR	425540
Zinc	6020A	1	0.84	3.0	**34.0**		mg/Kg	07/21/17	17:34	ERR	425540

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-7 (0-0.5)	**Lab Sample ID:**	1707122-011A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 12:45		
SDG:			

Prep Method:	6020S-P	**Prep Batch Date/Time:**	7/21/17	10:15:00AM
Prep Batch ID:	8321	**Prep Analyst:**	BJAY	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
The results shown below are reported using their MDL.											
Silver	6020A	1	0.12	1.2	ND		mg/Kg	07/25/17	13:07	ERR	425658
Thallium	6020A	1	1.2	6.0	ND		mg/Kg	07/25/17	13:07	ERR	425658

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-7 (0-0.5)	**Lab Sample ID:**	1707122-011A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 12:45		
SDG:			

Prep Method:	6020S-P	**Prep Batch Date/Time:**	7/21/17	10:15:00AM
Prep Batch ID:	8321	**Prep Analyst:**	BJAY	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Barium	6020A	10	2.0	2.4	**91.3**		mg/Kg	07/21/17	20:39	ERR	425540

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-7 (0-0.5)	**Lab Sample ID:**	1707122-011A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 12:45		
SDG:			

Prep Method:	% Water-P	**Prep Batch Date/Time:**	7/21/17	6:15:00PM
Prep Batch ID:	8446	**Prep Analyst:**	PHUFANO	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
% Moisture	ASTM D2216-90	1	0.050	0.050	**16.8**		%	07/21/17	18:15	PH	425657
Dry Weight Factor	ASTM D2216-90	1			**1.20**		-	07/21/17	18:15	PH	425657

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-9 (0-0.5)	**Lab Sample ID:**	1707122-012A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 10:07		
SDG:			

Prep Method:	7471BP	**Prep Batch Date/Time:**	7/21/17	5:30:00PM
Prep Batch ID:	8348	**Prep Analyst:**	BJAY	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Mercury	SW7471B	1	0.11	0.68	ND		mg/Kg	07/25/17	11:43	BJAY	425634

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-9 (0-0.5)	**Lab Sample ID:**	1707122-012A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 10:07		
SDG:			

Prep Method:	6020S-P	**Prep Batch Date/Time:**	7/21/17	10:15:00AM
Prep Batch ID:	8321	**Prep Analyst:**	BJAY	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
The results shown below are reported using their MDL.											
Antimony	6020A	1	0.16	1.4	**0.167**	J	mg/Kg	07/21/17	17:51	ERR	425540
Arsenic	6020A	1	0.28	1.4	**13.5**		mg/Kg	07/21/17	17:51	ERR	425540
Beryllium	6020A	1	0.22	1.4	ND		mg/Kg	07/21/17	17:51	ERR	425540
Cadmium	6020A	1	0.11	1.4	**0.124**	J	mg/Kg	07/21/17	17:51	ERR	425540
Chromium	6020A	1	0.13	1.4	**34.1**		mg/Kg	07/21/17	17:51	ERR	425540
Cobalt	6020A	1	0.28	1.4	**8.98**		mg/Kg	07/21/17	17:51	ERR	425540
Copper	6020A	1	0.23	3.4	**44.2**		mg/Kg	07/21/17	17:51	ERR	425540
Lead	6020A	1	0.072	1.4	**56.0**		mg/Kg	07/21/17	17:51	ERR	425540
Molybdenum	6020A	1	0.18	1.4	**0.265**	J	mg/Kg	07/21/17	17:51	ERR	425540
Nickel	6020A	1	1.7	6.8	**17.0**		mg/Kg	07/21/17	17:51	ERR	425540
Selenium	6020A	1	0.047	3.4	ND		mg/Kg	07/21/17	17:51	ERR	425540
Vanadium	6020A	1	0.38	34	**37.9**		mg/Kg	07/21/17	17:51	ERR	425540
Zinc	6020A	1	0.95	3.4	**42.0**		mg/Kg	07/21/17	17:51	ERR	425540

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-9 (0-0.5)	**Lab Sample ID:**	1707122-012A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 10:07		
SDG:			

Prep Method:	6020S-P	**Prep Batch Date/Time:**	7/21/17	10:15:00AM
Prep Batch ID:	8321	**Prep Analyst:**	BJAY	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
The results shown below are reported using their MDL.											
Silver	6020A	1	0.13	1.4	ND		mg/Kg	07/25/17	13:16	ERR	425658
Thallium	6020A	1	1.3	6.8	ND		mg/Kg	07/25/17	13:16	ERR	425658

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-9 (0-0.5)	**Lab Sample ID:**	1707122-012A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 10:07		
SDG:			

Prep Method:	6020S-P	**Prep Batch Date/Time:**	7/21/17	10:15:00AM
Prep Batch ID:	8321	**Prep Analyst:**	BJAY	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Barium	6020A	10	2.3	2.7	**115**		mg/Kg	07/21/17	20:47	ERR	425540

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-9 (0-0.5)	**Lab Sample ID:**	1707122-012A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 10:07		
SDG:			

Prep Method:	% Water-P	**Prep Batch Date/Time:**	7/21/17	6:15:00PM
Prep Batch ID:	8446	**Prep Analyst:**	PHUFANO	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
% Moisture	ASTM D2216-90	1	0.050	0.050	**26.1**		%	07/21/17	18:15	PH	425657
Dry Weight Factor	ASTM D2216-90	1			**1.35**		-	07/21/17	18:15	PH	425657

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-8 (0-0.5)	**Lab Sample ID:**	1707122-013A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 10:54		
SDG:			

Prep Method:	7471BP	**Prep Batch Date/Time:**	7/21/17	5:30:00PM
Prep Batch ID:	8348	**Prep Analyst:**	BJAY	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Mercury	SW7471B	1	0.087	0.52	ND		mg/Kg	07/25/17	11:47	BJAY	425634

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-8 (0-0.5)	**Lab Sample ID:**	1707122-013A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 10:54		
SDG:			

Prep Method:	6020S-P	**Prep Batch Date/Time:**	7/21/17	10:15:00AM
Prep Batch ID:	8321	**Prep Analyst:**	BJAY	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
The results shown below are reported using their MDL.											
Antimony	6020A	1	0.13	1.0	**0.186**	J	mg/Kg	07/21/17	18:08	ERR	425540
Arsenic	6020A	1	0.22	1.0	**9.79**		mg/Kg	07/21/17	18:08	ERR	425540
Beryllium	6020A	1	0.17	1.0	ND		mg/Kg	07/21/17	18:08	ERR	425540
Cadmium	6020A	1	0.087	1.0	**0.0879**	J	mg/Kg	07/21/17	18:08	ERR	425540
Chromium	6020A	1	0.10	1.0	**26.5**		mg/Kg	07/21/17	18:08	ERR	425540
Cobalt	6020A	1	0.22	1.0	**7.16**		mg/Kg	07/21/17	18:08	ERR	425540
Copper	6020A	1	0.18	2.6	**31.1**		mg/Kg	07/21/17	18:08	ERR	425540
Lead	6020A	1	0.056	1.0	**42.4**		mg/Kg	07/21/17	18:08	ERR	425540
Molybdenum	6020A	1	0.14	1.0	**0.182**	J	mg/Kg	07/21/17	18:08	ERR	425540
Nickel	6020A	1	1.3	5.2	**12.7**		mg/Kg	07/21/17	18:08	ERR	425540
Selenium	6020A	1	0.036	2.6	ND		mg/Kg	07/21/17	18:08	ERR	425540
Vanadium	6020A	1	0.29	26	**27.9**		mg/Kg	07/21/17	18:08	ERR	425540
Zinc	6020A	1	0.73	2.6	**29.0**		mg/Kg	07/21/17	18:08	ERR	425540

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-8 (0-0.5)	**Lab Sample ID:**	1707122-013A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 10:54		
SDG:			

Prep Method:	6020S-P	**Prep Batch Date/Time:**	7/21/17	10:15:00AM
Prep Batch ID:	8321	**Prep Analyst:**	BJAY	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
The results shown below are reported using their MDL.											
Silver	6020A	1	0.10	1.0	ND		mg/Kg	07/25/17	13:26	ERR	425658
Thallium	6020A	1	1.0	5.2	ND		mg/Kg	07/25/17	13:26	ERR	425658

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-8 (0-0.5)	**Lab Sample ID:**	1707122-013A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 10:54		
SDG:			

Prep Method:	6020S-P	**Prep Batch Date/Time:**	7/21/17	10:15:00AM
Prep Batch ID:	8321	**Prep Analyst:**	BJAY	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Barium	6020A	10	1.7	2.1	**90.7**		mg/Kg	07/21/17	20:55	ERR	425540

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-8 (0-0.5)	**Lab Sample ID:**	1707122-013A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 10:54		
SDG:			

Prep Method:	% Water-P	**Prep Batch Date/Time:**	7/21/17	6:15:00PM
Prep Batch ID:	8446	**Prep Analyst:**	PHUFANO	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
% Moisture	ASTM D2216-90	1	0.050	0.050	**3.84**		%	07/21/17	18:15	PH	425657
Dry Weight Factor	ASTM D2216-90	1			**1.04**		-	07/21/17	18:15	PH	425657

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-8 (2.5-3)	**Lab Sample ID:**	1707122-014A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 10:58		
SDG:			

Prep Method:	6020S-P	**Prep Batch Date/Time:**	7/20/17	11:40:00AM
Prep Batch ID:	8276	**Prep Analyst:**	BJAY	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Arsenic	6020A	1	0.26	1.2	**5.70**		mg/Kg	07/20/17	17:55	ERR	425519

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-8 (2.5-3)	**Lab Sample ID:**	1707122-014A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 10:58		
SDG:			

Prep Method:	% Water-P	**Prep Batch Date/Time:**	7/21/17	6:15:00PM
Prep Batch ID:	8446	**Prep Analyst:**	PHUFANO	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
% Moisture	ASTM D2216-90	1	0.050	0.050	**19.2**		%	07/21/17	18:15	PH	425657
Dry Weight Factor	ASTM D2216-90	1			**1.24**		-	07/21/17	18:15	PH	425657

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-10 (0-0.5)	**Lab Sample ID:**	1707122-015A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 9:55		
SDG:			

Prep Method:	7471BP	**Prep Batch Date/Time:**	7/21/17	5:30:00PM
Prep Batch ID:	8348	**Prep Analyst:**	BJAY	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Mercury	SW7471B	1	0.084	0.51	ND		mg/Kg	07/25/17	11:53	BJAY	425634

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-10 (0-0.5)	**Lab Sample ID:**	1707122-015A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 9:55		
SDG:			

Prep Method:	6020S-P	**Prep Batch Date/Time:**	7/21/17	10:15:00AM
Prep Batch ID:	8321	**Prep Analyst:**	BJAY	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
The results shown below are reported using their MDL.											
Antimony	6020A	1	0.12	1.0	**0.163**	J	mg/Kg	07/21/17	18:33	ERR	425540
Arsenic	6020A	1	0.21	1.0	**8.56**		mg/Kg	07/21/17	18:33	ERR	425540
Beryllium	6020A	1	0.16	1.0	**0.189**	J	mg/Kg	07/21/17	18:33	ERR	425540
Cadmium	6020A	1	0.084	1.0	**0.0985**	J	mg/Kg	07/21/17	18:33	ERR	425540
Cobalt	6020A	1	0.21	1.0	**10.8**		mg/Kg	07/21/17	18:33	ERR	425540
Copper	6020A	1	0.17	2.5	**38.8**		mg/Kg	07/21/17	18:33	ERR	425540
Lead	6020A	1	0.054	1.0	**24.2**		mg/Kg	07/21/17	18:33	ERR	425540
Molybdenum	6020A	1	0.13	1.0	**0.267**	J	mg/Kg	07/21/17	18:33	ERR	425540
Nickel	6020A	1	1.3	5.1	**19.4**		mg/Kg	07/21/17	18:33	ERR	425540
Selenium	6020A	1	0.035	2.5	ND		mg/Kg	07/21/17	18:33	ERR	425540
Vanadium	6020A	1	0.28	25	**48.5**		mg/Kg	07/21/17	18:33	ERR	425540
Zinc	6020A	1	0.71	2.5	**44.1**		mg/Kg	07/21/17	18:33	ERR	425540

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-10 (0-0.5)	**Lab Sample ID:**	1707122-015A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 9:55		
SDG:			

Prep Method:	6020S-P	**Prep Batch Date/Time:**	7/21/17	10:15:00AM
Prep Batch ID:	8321	**Prep Analyst:**	BJAY	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
The results shown below are reported using their MDL.											
Chromium	6020A	1	0.098	1.0	**40.5**		mg/Kg	07/25/17	13:40	ERR	425658
Silver	6020A	1	0.099	1.0	ND		mg/Kg	07/25/17	13:40	ERR	425658
Thallium	6020A	1	1.0	5.1	ND		mg/Kg	07/25/17	13:40	ERR	425658

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-10 (0-0.5)	**Lab Sample ID:**	1707122-015A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 9:55		
SDG:			

Prep Method:	6020S-P	**Prep Batch Date/Time:**	7/21/17	10:15:00AM
Prep Batch ID:	8321	**Prep Analyst:**	BJAY	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Barium	6020A	10	1.7	2.0	**114**		mg/Kg	07/21/17	21:04	ERR	425540

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-10 (0-0.5)	**Lab Sample ID:**	1707122-015A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 9:55		
SDG:			

Prep Method:	% Water-P	**Prep Batch Date/Time:**	7/21/17	6:15:00PM
Prep Batch ID:	8446	**Prep Analyst:**	PHUFANO	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
% Moisture	ASTM D2216-90	1	0.050	0.050	**1.12**		%	07/21/17	18:15	PH	425657
Dry Weight Factor	ASTM D2216-90	1			**1.01**		-	07/21/17	18:15	PH	425657

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-11 (0-0.5)	**Lab Sample ID:**	1707122-016A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 8:55		
SDG:			

Prep Method:	7471BP	**Prep Batch Date/Time:**	7/21/17	5:30:00PM
Prep Batch ID:	8348	**Prep Analyst:**	BJAY	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Mercury	SW7471B	1	0.084	0.51	ND		mg/Kg	07/25/17	11:55	BJAY	425634

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-11 (0-0.5)	**Lab Sample ID:**	1707122-016A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 8:55		
SDG:			

Prep Method:	6020S-P	**Prep Batch Date/Time:**	7/21/17	10:15:00AM
Prep Batch ID:	8321	**Prep Analyst:**	BJAY	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
The results shown below are reported using their MDL.											
Antimony	6020A	1	0.12	1.0	**0.285**	J	mg/Kg	07/21/17	18:41	ERR	425540
Arsenic	6020A	1	0.21	1.0	**8.80**		mg/Kg	07/21/17	18:41	ERR	425540
Beryllium	6020A	1	0.16	1.0	**0.164**	J	mg/Kg	07/21/17	18:41	ERR	425540
Cadmium	6020A	1	0.084	1.0	**0.166**	J	mg/Kg	07/21/17	18:41	ERR	425540
Cobalt	6020A	1	0.21	1.0	**7.14**		mg/Kg	07/21/17	18:41	ERR	425540
Copper	6020A	1	0.17	2.5	**18.5**		mg/Kg	07/21/17	18:41	ERR	425540
Lead	6020A	1	0.054	1.0	**21.1**		mg/Kg	07/21/17	18:41	ERR	425540
Molybdenum	6020A	1	0.13	1.0	**0.491**	J	mg/Kg	07/21/17	18:41	ERR	425540
Nickel	6020A	1	1.3	5.1	**14.6**		mg/Kg	07/21/17	18:41	ERR	425540
Selenium	6020A	1	0.035	2.5	ND		mg/Kg	07/21/17	18:41	ERR	425540
Vanadium	6020A	1	0.28	25	**37.0**		mg/Kg	07/21/17	18:41	ERR	425540
Zinc	6020A	1	0.71	2.5	**55.7**		mg/Kg	07/21/17	18:41	ERR	425540

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-11 (0-0.5)	**Lab Sample ID:**	1707122-016A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 8:55		
SDG:			

Prep Method:	6020S-P	**Prep Batch Date/Time:**	7/21/17	10:15:00AM
Prep Batch ID:	8321	**Prep Analyst:**	BJAY	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
The results shown below are reported using their MDL.											
Chromium	6020A	1	0.098	1.0	**24.6**		mg/Kg	07/25/17	13:44	ERR	425658
Silver	6020A	1	0.099	1.0	ND		mg/Kg	07/25/17	13:44	ERR	425658
Thallium	6020A	1	1.0	5.1	ND		mg/Kg	07/25/17	13:44	ERR	425658

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-11 (0-0.5)	**Lab Sample ID:**	1707122-016A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 8:55		
SDG:			

Prep Method:	6020S-P	**Prep Batch Date/Time:**	7/21/17	10:15:00AM
Prep Batch ID:	8321	**Prep Analyst:**	BJAY	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Barium	6020A	10	1.7	2.0	**108**		mg/Kg	07/21/17	21:12	ERR	425540

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-11 (0-0.5)	**Lab Sample ID:**	1707122-016A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 8:55		
SDG:			

Prep Method:	% Water-P	**Prep Batch Date/Time:**	7/21/17	6:15:00PM
Prep Batch ID:	8446	**Prep Analyst:**	PHUFANO	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
% Moisture	ASTM D2216-90	1	0.050	0.050	**1.37**		%	07/21/17	18:15	PH	425657
Dry Weight Factor	ASTM D2216-90	1			**1.01**		-	07/21/17	18:15	PH	425657

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-12 (0-0.5)	**Lab Sample ID:**	1707122-017A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 9:25		
SDG:			

Prep Method:	7471BP	**Prep Batch Date/Time:**	7/21/17	5:30:00PM
Prep Batch ID:	8348	**Prep Analyst:**	BJAY	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Mercury	SW7471B	1	0.10	0.61	ND		mg/Kg	07/25/17	11:57	BJAY	425634

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-12 (0-0.5)	**Lab Sample ID:**	1707122-017A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 9:25		
SDG:			

Prep Method:	6020S-P	**Prep Batch Date/Time:**	7/21/17	10:15:00AM
Prep Batch ID:	8321	**Prep Analyst:**	BJAY	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
The results shown below are reported using their MDL.											
Antimony	6020A	1	0.15	1.2	**0.160**	J	mg/Kg	07/21/17	18:49	ERR	425540
Arsenic	6020A	1	0.25	1.2	**16.6**		mg/Kg	07/21/17	18:49	ERR	425540
Barium	6020A	1	1.0	1.2	**53.5**		mg/Kg	07/21/17	18:49	ERR	425540
Beryllium	6020A	1	0.19	1.2	ND		mg/Kg	07/21/17	18:49	ERR	425540
Cadmium	6020A	1	0.10	1.2	ND		mg/Kg	07/21/17	18:49	ERR	425540
Cobalt	6020A	1	0.25	1.2	**5.64**		mg/Kg	07/21/17	18:49	ERR	425540
Copper	6020A	1	0.21	3.0	**12.7**		mg/Kg	07/21/17	18:49	ERR	425540
Lead	6020A	1	0.065	1.2	**53.1**		mg/Kg	07/21/17	18:49	ERR	425540
Molybdenum	6020A	1	0.16	1.2	ND		mg/Kg	07/21/17	18:49	ERR	425540
Nickel	6020A	1	1.5	6.1	**9.05**		mg/Kg	07/21/17	18:49	ERR	425540
Selenium	6020A	1	0.042	3.0	ND		mg/Kg	07/21/17	18:49	ERR	425540
Vanadium	6020A	1	0.34	30	**21.5**	J	mg/Kg	07/21/17	18:49	ERR	425540
Zinc	6020A	1	0.85	3.0	**21.5**		mg/Kg	07/21/17	18:49	ERR	425540

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-12 (0-0.5)	**Lab Sample ID:**	1707122-017A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 9:25		
SDG:			

Prep Method:	6020S-P	**Prep Batch Date/Time:**	7/21/17	10:15:00AM
Prep Batch ID:	8321	**Prep Analyst:**	BJAY	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
The results shown below are reported using their MDL.											
Chromium	6020A	1	0.12	1.2	**20.5**		mg/Kg	07/25/17	13:49	ERR	425658
Silver	6020A	1	0.12	1.2	ND		mg/Kg	07/25/17	13:49	ERR	425658
Thallium	6020A	1	1.2	6.1	ND		mg/Kg	07/25/17	13:49	ERR	425658

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-12 (0-0.5)	**Lab Sample ID:**	1707122-017A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 9:25		
SDG:			

Prep Method:	% Water-P	**Prep Batch Date/Time:**	7/21/17	6:15:00PM
Prep Batch ID:	8446	**Prep Analyst:**	PHUFANO	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
% Moisture	ASTM D2216-90	1	0.050	0.050	**17.5**		%	07/21/17	18:15	PH	425657
Dry Weight Factor	ASTM D2216-90	1			**1.21**		-	07/21/17	18:15	PH	425657

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-12 (2.5-3)	**Lab Sample ID:**	1707122-018A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 9:30		
SDG:			

Prep Method:	6020S-P	**Prep Batch Date/Time:**	7/20/17	11:40:00AM
Prep Batch ID:	8276	**Prep Analyst:**	BJAY	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Arsenic	6020A	1	0.22	1.1	**4.43**		mg/Kg	07/20/17	17:59	ERR	425519

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-12 (2.5-3)	**Lab Sample ID:**	1707122-018A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 9:30		
SDG:			

Prep Method:	% Water-P	**Prep Batch Date/Time:**	7/21/17	6:15:00PM
Prep Batch ID:	8446	**Prep Analyst:**	PHUFANO	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
% Moisture	ASTM D2216-90	1	0.050	0.050	**6.33**		%	07/21/17	18:15	PH	425657
Dry Weight Factor	ASTM D2216-90	1			**1.07**		-	07/21/17	18:15	PH	425657

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-13 (0-0.5)	**Lab Sample ID:**	1707122-019A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 10:33		
SDG:			

Prep Method:	7471BP	**Prep Batch Date/Time:**	7/21/17	5:10:00PM
Prep Batch ID:	8337	**Prep Analyst:**	BJAY	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Mercury	SW7471B	1	0.083	0.50	ND		mg/Kg	07/25/17	12:05	BJAY	425633

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-13 (0-0.5)	**Lab Sample ID:**	1707122-019A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 10:33		
SDG:			

Prep Method:	6020S-P	**Prep Batch Date/Time:**	7/21/17	4:10:00PM
Prep Batch ID:	8336	**Prep Analyst:**	BJAY	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
The results shown below are reported using their MDL.											
Antimony	6020A	1	0.12	1.0	ND		mg/Kg	07/25/17	16:44	ERR	425557
Arsenic	6020A	1	0.21	1.0	**4.64**		mg/Kg	07/25/17	16:44	ERR	425557
Beryllium	6020A	1	0.16	1.0	ND		mg/Kg	07/25/17	16:44	ERR	425557
Cadmium	6020A	1	0.084	1.0	ND		mg/Kg	07/25/17	16:44	ERR	425557
Chromium	6020A	1	0.097	1.0	**20.9**		mg/Kg	07/25/17	16:44	ERR	425557
Cobalt	6020A	1	0.21	1.0	**5.78**		mg/Kg	07/25/17	16:44	ERR	425557
Copper	6020A	1	0.17	2.5	**18.8**		mg/Kg	07/25/17	16:44	ERR	425557
Lead	6020A	1	0.054	1.0	**13.1**		mg/Kg	07/25/17	16:44	ERR	425557
Molybdenum	6020A	1	0.13	1.0	ND		mg/Kg	07/25/17	16:44	ERR	425557
Nickel	6020A	1	1.2	5.0	**10.0**		mg/Kg	07/25/17	16:44	ERR	425557
Selenium	6020A	1	0.035	2.5	ND		mg/Kg	07/25/17	16:44	ERR	425557
Silver	6020A	1	0.098	1.0	ND		mg/Kg	07/25/17	16:44	ERR	425557
Thallium	6020A	1	1.00	5.0	ND		mg/Kg	07/25/17	16:44	ERR	425557
Vanadium	6020A	1	0.28	25	**25.0**		mg/Kg	07/25/17	16:44	ERR	425557
Zinc	6020A	1	0.70	2.5	**23.1**		mg/Kg	07/25/17	16:44	ERR	425557

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-13 (0-0.5)	**Lab Sample ID:**	1707122-019A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 10:33		
SDG:			

Prep Method:	6020S-P	**Prep Batch Date/Time:**	7/21/17	4:10:00PM
Prep Batch ID:	8336	**Prep Analyst:**	BJAY	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Barium	6020A	10	1.7	2.0	**70.0**		mg/Kg	07/26/17	17:19	ERR	425682

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-13 (0-0.5)	**Lab Sample ID:**	1707122-019A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 10:33		
SDG:			

Prep Method:	% Water-P	**Prep Batch Date/Time:**	7/21/17	6:15:00PM
Prep Batch ID:	8446	**Prep Analyst:**	PHUFANO	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
% Moisture	ASTM D2216-90	1	0.050	0.050	**0.440**		%	07/21/17	18:15	PH	425657
Dry Weight Factor	ASTM D2216-90	1			**1.00**		-	07/21/17	18:15	PH	425657

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-14 (0-0.5)	**Lab Sample ID:**	1707122-020A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 10:46		
SDG:			

Prep Method:	7471BP	**Prep Batch Date/Time:**	7/21/17	5:10:00PM
Prep Batch ID:	8337	**Prep Analyst:**	BJAY	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Mercury	SW7471B	1	0.083	0.50	ND		mg/Kg	07/25/17	12:11	BJAY	425633

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-14 (0-0.5)	**Lab Sample ID:**	1707122-020A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 10:46		
SDG:			

Prep Method:	6020S-P	**Prep Batch Date/Time:**	7/21/17	4:10:00PM
Prep Batch ID:	8336	**Prep Analyst:**	BJAY	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
The results shown below are reported using their MDL.											
Antimony	6020A	1	0.12	1.0	**0.188**	J	mg/Kg	07/25/17	17:10	ERR	425557
Arsenic	6020A	1	0.21	1.0	**6.88**		mg/Kg	07/25/17	17:10	ERR	425557
Beryllium	6020A	1	0.16	1.0	ND		mg/Kg	07/25/17	17:10	ERR	425557
Cadmium	6020A	1	0.084	1.0	**0.115**	J	mg/Kg	07/25/17	17:10	ERR	425557
Chromium	6020A	1	0.097	1.0	**28.6**		mg/Kg	07/25/17	17:10	ERR	425557
Cobalt	6020A	1	0.21	1.0	**6.99**		mg/Kg	07/25/17	17:10	ERR	425557
Copper	6020A	1	0.17	2.5	**28.3**		mg/Kg	07/25/17	17:10	ERR	425557
Lead	6020A	1	0.054	1.0	**30.2**		mg/Kg	07/25/17	17:10	ERR	425557
Molybdenum	6020A	1	0.13	1.0	**0.212**	J	mg/Kg	07/25/17	17:10	ERR	425557
Nickel	6020A	1	1.2	5.0	**12.9**		mg/Kg	07/25/17	17:10	ERR	425557
Selenium	6020A	1	0.035	2.5	ND		mg/Kg	07/25/17	17:10	ERR	425557
Silver	6020A	1	0.098	1.0	ND		mg/Kg	07/25/17	17:10	ERR	425557
Thallium	6020A	1	1.00	5.0	ND		mg/Kg	07/25/17	17:10	ERR	425557
Vanadium	6020A	1	0.28	25	**29.1**		mg/Kg	07/25/17	17:10	ERR	425557
Zinc	6020A	1	0.70	2.5	**33.3**		mg/Kg	07/25/17	17:10	ERR	425557

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-14 (0-0.5)	**Lab Sample ID:**	1707122-020A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 10:46		
SDG:			

Prep Method:	6020S-P	**Prep Batch Date/Time:**	7/21/17	4:10:00PM
Prep Batch ID:	8336	**Prep Analyst:**	BJAY	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Barium	6020A	10	1.7	2.0	**86.1**		mg/Kg	07/26/17	17:24	ERR	425682

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-14 (0-0.5)	**Lab Sample ID:**	1707122-020A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 10:46		
SDG:			

Prep Method:	% Water-P	**Prep Batch Date/Time:**	7/21/17	6:15:00PM
Prep Batch ID:	8446	**Prep Analyst:**	PHUFANO	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
% Moisture	ASTM D2216-90	1	0.050	0.050	**0.440**		%	07/21/17	18:15	PH	425657
Dry Weight Factor	ASTM D2216-90	1			**1.00**		-	07/21/17	18:15	PH	425657

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-15 (0-0.5)	**Lab Sample ID:**	1707122-021A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 10:56		
SDG:			

Prep Method:	7471BP	**Prep Batch Date/Time:**	7/21/17	5:10:00PM
Prep Batch ID:	8337	**Prep Analyst:**	BJAY	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Mercury	SW7471B	1	0.11	0.69	ND		mg/Kg	07/25/17	12:20	BJAY	425633

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-15 (0-0.5)	**Lab Sample ID:**	1707122-021A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 10:56		
SDG:			

Prep Method:	6020S-P	**Prep Batch Date/Time:**	7/21/17	4:10:00PM
Prep Batch ID:	8336	**Prep Analyst:**	BJAY	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
The results shown below are reported using their MDL.											
Antimony	6020A	1	0.18	1.5	**0.462**	J	mg/Kg	07/25/17	17:26	ERR	425557
Arsenic	6020A	1	0.30	1.5	**17.4**		mg/Kg	07/25/17	17:26	ERR	425557
Beryllium	6020A	1	0.23	1.5	**0.326**	J	mg/Kg	07/25/17	17:26	ERR	425557
Cadmium	6020A	1	0.12	1.5	**0.183**	J	mg/Kg	07/25/17	17:26	ERR	425557
Chromium	6020A	1	0.14	1.5	**50.8**		mg/Kg	07/25/17	17:26	ERR	425557
Cobalt	6020A	1	0.31	1.5	**12.7**		mg/Kg	07/25/17	17:26	ERR	425557
Copper	6020A	1	0.25	3.7	**28.4**		mg/Kg	07/25/17	17:26	ERR	425557
Lead	6020A	1	0.078	1.5	**42.9**		mg/Kg	07/25/17	17:26	ERR	425557
Molybdenum	6020A	1	0.19	1.5	**0.668**	J	mg/Kg	07/25/17	17:26	ERR	425557
Nickel	6020A	1	1.8	7.3	**24.1**		mg/Kg	07/25/17	17:26	ERR	425557
Selenium	6020A	1	0.050	3.7	ND		mg/Kg	07/25/17	17:26	ERR	425557
Silver	6020A	1	0.14	1.5	ND		mg/Kg	07/25/17	17:26	ERR	425557
Thallium	6020A	1	1.5	7.3	ND		mg/Kg	07/25/17	17:26	ERR	425557
Vanadium	6020A	1	0.41	37	**61.7**		mg/Kg	07/25/17	17:26	ERR	425557
Zinc	6020A	1	1.0	3.7	**69.7**		mg/Kg	07/25/17	17:26	ERR	425557

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-15 (0-0.5)	**Lab Sample ID:**	1707122-021A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 10:56		
SDG:			

Prep Method:	6020S-P	**Prep Batch Date/Time:**	7/21/17	4:10:00PM
Prep Batch ID:	8336	**Prep Analyst:**	BJAY	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Barium	6020A	10	2.4	2.9	**128**		mg/Kg	07/26/17	17:30	ERR	425682

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-15 (0-0.5)	**Lab Sample ID:**	1707122-021A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 10:56		
SDG:			

Prep Method:	% Water-P	**Prep Batch Date/Time:**	7/21/17	6:45:00PM
Prep Batch ID:	8347	**Prep Analyst:**	PHUFANO	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
% Moisture	ASTM D2216-90	1	0.050	0.050	**27.2**		%	07/21/17	18:45	PH	425559
Dry Weight Factor	ASTM D2216-90	1			**1.37**		-	07/21/17	18:45	PH	425559

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-16 (0-0.5)	**Lab Sample ID:**	1707122-022A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 11:27		
SDG:			

Prep Method:	7471BP	**Prep Batch Date/Time:**	7/21/17	5:10:00PM
Prep Batch ID:	8337	**Prep Analyst:**	BJAY	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Mercury	SW7471B	1	0.088	0.53	ND		mg/Kg	07/25/17	12:22	BJAY	425633

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-16 (0-0.5)	**Lab Sample ID:**	1707122-022A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 11:27		
SDG:			

Prep Method:	6020S-P	**Prep Batch Date/Time:**	7/21/17	4:10:00PM
Prep Batch ID:	8336	**Prep Analyst:**	BJAY	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
The results shown below are reported using their MDL.											
Antimony	6020A	1	0.13	1.1	**0.468**	J	mg/Kg	07/25/17	17:35	ERR	425557
Arsenic	6020A	1	0.23	1.1	**17.0**		mg/Kg	07/25/17	17:35	ERR	425557
Barium	6020A	1	0.90	1.1	**43.3**		mg/Kg	07/25/17	17:35	ERR	425557
Beryllium	6020A	1	0.17	1.1	**0.193**	J	mg/Kg	07/25/17	17:35	ERR	425557
Cadmium	6020A	1	0.090	1.1	**0.150**	J	mg/Kg	07/25/17	17:35	ERR	425557
Cobalt	6020A	1	0.23	1.1	**19.5**		mg/Kg	07/25/17	17:35	ERR	425557
Copper	6020A	1	0.18	2.7	**60.2**		mg/Kg	07/25/17	17:35	ERR	425557
Molybdenum	6020A	1	0.14	1.1	**0.416**	J	mg/Kg	07/25/17	17:35	ERR	425557
Nickel	6020A	1	1.3	5.4	**55.8**		mg/Kg	07/25/17	17:35	ERR	425557
Selenium	6020A	1	0.037	2.7	ND		mg/Kg	07/25/17	17:35	ERR	425557
Silver	6020A	1	0.11	1.1	ND		mg/Kg	07/25/17	17:35	ERR	425557
Thallium	6020A	1	1.1	5.4	ND		mg/Kg	07/25/17	17:35	ERR	425557

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-16 (0-0.5)	**Lab Sample ID:**	1707122-022A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 11:27		
SDG:			

Prep Method:	6020S-P	**Prep Batch Date/Time:**	7/21/17	4:10:00PM
Prep Batch ID:	8336	**Prep Analyst:**	BJAY	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Chromium	6020A	25	0.52	5.4	**92.1**		mg/Kg	07/26/17	17:35	ERR	425682
Lead	6020A	25	0.29	5.4	**121**		mg/Kg	07/26/17	17:35	ERR	425682
Vanadium	6020A	25	1.5	140	**144**		mg/Kg	07/26/17	17:35	ERR	425682
Zinc	6020A	25	3.8	14	**99.2**		mg/Kg	07/26/17	17:35	ERR	425682

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-16 (0-0.5)	**Lab Sample ID:**	1707122-022A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 11:27		
SDG:			

Prep Method:	% Water-P	**Prep Batch Date/Time:**	7/21/17	6:45:00PM
Prep Batch ID:	8347	**Prep Analyst:**	PHUFANO	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
% Moisture	ASTM D2216-90	1	0.050	0.050	**5.57**		%	07/21/17	18:45	PH	425559
Dry Weight Factor	ASTM D2216-90	1			**1.06**		-	07/21/17	18:45	PH	425559

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-16 (2.5-3)	**Lab Sample ID:**	1707122-023A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 11:39		
SDG:			

Prep Method:	6020S-P	**Prep Batch Date/Time:**	7/20/17	11:40:00AM
Prep Batch ID:	8276	**Prep Analyst:**	BJAY	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Arsenic	6020A	1	0.23	1.1	**14.9**		mg/Kg	07/20/17	18:03	ERR	425519

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-16 (2.5-3)	**Lab Sample ID:**	1707122-023A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 11:39		
SDG:			

Prep Method:	% Water-P	**Prep Batch Date/Time:**	7/21/17	6:45:00PM
Prep Batch ID:	8347	**Prep Analyst:**	PHUFANO	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
% Moisture	ASTM D2216-90	1	0.050	0.050	**10.8**		%	07/21/17	18:45	PH	425559
Dry Weight Factor	ASTM D2216-90	1			**1.12**		-	07/21/17	18:45	PH	425559

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-17 (0-0.5)	**Lab Sample ID:**	1707122-024A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 12:53		
SDG:			

Prep Method:	7471BP	**Prep Batch Date/Time:**	7/21/17	5:10:00PM
Prep Batch ID:	8337	**Prep Analyst:**	BJAY	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Mercury	SW7471B	1	0.084	0.51	ND		mg/Kg	07/25/17	12:24	BJAY	425633

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-17 (0-0.5)	**Lab Sample ID:**	1707122-024A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 12:53		
SDG:			

Prep Method:	6020S-P	**Prep Batch Date/Time:**	7/21/17	4:10:00PM
Prep Batch ID:	8336	**Prep Analyst:**	BJAY	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
The results shown below are reported using their MDL.											
Antimony	6020A	1	0.13	1.1	**0.350**	J	mg/Kg	07/25/17	18:00	ERR	425557
Arsenic	6020A	1	0.23	1.1	**13.3**		mg/Kg	07/25/17	18:00	ERR	425557
Beryllium	6020A	1	0.17	1.1	**0.188**	J	mg/Kg	07/25/17	18:00	ERR	425557
Cadmium	6020A	1	0.091	1.1	**0.170**	J	mg/Kg	07/25/17	18:00	ERR	425557
Chromium	6020A	1	0.11	1.1	**50.1**		mg/Kg	07/25/17	18:00	ERR	425557
Cobalt	6020A	1	0.23	1.1	**10.0**		mg/Kg	07/25/17	18:00	ERR	425557
Copper	6020A	1	0.19	2.7	**34.9**		mg/Kg	07/25/17	18:00	ERR	425557
Lead	6020A	1	0.058	1.1	**35.1**		mg/Kg	07/25/17	18:00	ERR	425557
Molybdenum	6020A	1	0.14	1.1	**0.770**	J	mg/Kg	07/25/17	18:00	ERR	425557
Nickel	6020A	1	1.4	5.5	**20.7**		mg/Kg	07/25/17	18:00	ERR	425557
Selenium	6020A	1	0.038	2.7	ND		mg/Kg	07/25/17	18:00	ERR	425557
Silver	6020A	1	0.11	1.1	ND		mg/Kg	07/25/17	18:00	ERR	425557
Thallium	6020A	1	1.1	5.5	ND		mg/Kg	07/25/17	18:00	ERR	425557
Vanadium	6020A	1	0.31	27	**50.5**		mg/Kg	07/25/17	18:00	ERR	425557

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-17 (0-0.5)	**Lab Sample ID:**	1707122-024A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 12:53		
SDG:			

Prep Method:	6020S-P	**Prep Batch Date/Time:**	7/21/17	4:10:00PM
Prep Batch ID:	8336	**Prep Analyst:**	BJAY	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Barium	6020A	10	1.8	2.2	**103**		mg/Kg	07/26/17	17:40	ERR	425682
Zinc	6020A	10	1.5	5.5	**76.8**		mg/Kg	07/26/17	17:40	ERR	425682

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-17 (0-0.5)	**Lab Sample ID:**	1707122-024A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 12:53		
SDG:			

Prep Method:	% Water-P	**Prep Batch Date/Time:**	7/21/17	6:45:00PM
Prep Batch ID:	8347	**Prep Analyst:**	PHUFANO	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
% Moisture	ASTM D2216-90	1	0.050	0.050	**1.27**		%	07/21/17	18:45	PH	425559
Dry Weight Factor	ASTM D2216-90	1			**1.01**		-	07/21/17	18:45	PH	425559

Torrent LABORATORY, INC.

MB Summary Report

Work Order:	1707122	**Prep Method:**	6020S-P	**Prep Date:**	07/20/17	**Prep Batch:**	8276
Matrix:	Soil	**Analytical Method:**	6020A	**Analyzed Date:**	7/20/2017	**Analytical Batch:**	425519
Units:	mg/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier
Arsenic	0.21	1.0	ND	

Work Order:	1707122	**Prep Method:**	6020S-P	**Prep Date:**	07/21/17	**Prep Batch:**	8321
Matrix:	Soil	**Analytical Method:**	6020A	**Analyzed Date:**	7/21/2017	**Analytical Batch:**	425540
Units:	mg/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier
Antimony	0.12	1.0	ND	
Arsenic	0.21	1.0	ND	
Barium	0.84	1.0	ND	
Beryllium	0.16	1.0	ND	
Cadmium	0.084	1.0	ND	
Chromium	0.097	1.0	0.26	J
Cobalt	0.21	1.0	ND	
Copper	0.17	2.5	ND	
Lead	0.054	1.0	ND	
Molybdenum	0.13	1.0	0.19	J
Nickel	1.2	5.0	ND	
Selenium	0.035	2.5	ND	
Thallium	1.00	5.0	ND	
Vanadium	0.28	25	ND	
Zinc	0.70	2.5	ND	

Torrent LABORATORY, INC.

MB Summary Report

Work Order:	1707122	**Prep Method:**	3546_PCB	**Prep Date:**	07/21/17	**Prep Batch:**	8323
Matrix:	Soil	**Analytical Method:**	SW8082A	**Analyzed Date:**	7/21/2017	**Analytical Batch:**	425546
Units:	ug/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier
Aroclor1016	53	100	ND	
Aroclor1221	5.0	100	ND	
Aroclor1232	17	100	ND	
Aroclor1242	3.0	100	ND	
Aroclor1248	2.0	100	ND	
Aroclor1254	2.0	100	ND	
Aroclor1260	36	100	ND	
TCMX (S)			94.0	
DCBP (S)			99.0	

Work Order:	1707122	**Prep Method:**	6020S-P	**Prep Date:**	07/21/17	**Prep Batch:**	8336
Matrix:	Soil	**Analytical Method:**	6020A	**Analyzed Date:**	7/25/2017	**Analytical Batch:**	425557
Units:	mg/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier
Antimony	0.12	1.0	0.19	J
Arsenic	0.21	1.0	ND	
Barium	0.84	1.0	ND	
Beryllium	0.16	1.0	ND	
Cadmium	0.084	1.0	ND	
Chromium	0.097	1.0	0.17	J
Cobalt	0.21	1.0	ND	
Copper	0.17	2.5	ND	
Lead	0.054	1.0	ND	
Molybdenum	0.13	1.0	0.20	J
Nickel	1.2	5.0	ND	
Selenium	0.035	2.5	ND	
Silver	0.098	1.0	ND	
Thallium	1.00	5.0	ND	
Vanadium	0.28	25	ND	
Zinc	0.70	2.5	ND	

Torrent LABORATORY, INC.

MB Summary Report

Work Order:	1707122	**Prep Method:**	7471BP	**Prep Date:**	07/21/17	**Prep Batch:**	8337
Matrix:	Soil	**Analytical Method:**	SW7471B	**Analyzed Date:**	7/25/2017	**Analytical Batch:**	425633
Units:	mg/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier
Mercury	0.083	0.50	ND	

Work Order:	1707122	**Prep Method:**	% Water-P	**Prep Date:**	07/21/17	**Prep Batch:**	8347
Matrix:	Soil	**Analytical Method:**	ASTM D2216-90	**Analyzed Date:**	7/21/2017	**Analytical Batch:**	425559
Units:	mg/L						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier
% Moisture	0.050	0.050	ND	

Work Order:	1707122	**Prep Method:**	7471BP	**Prep Date:**	07/21/17	**Prep Batch:**	8348
Matrix:	Soil	**Analytical Method:**	SW7471B	**Analyzed Date:**	7/25/2017	**Analytical Batch:**	425634
Units:	mg/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier
Mercury	0.083	0.50	ND	

Torrent LABORATORY, INC.

MB Summary Report

Work Order:	1707122	**Prep Method:**	3546_OCP	**Prep Date:**	07/22/17	**Prep Batch:**	8352
Matrix:	Soil	**Analytical Method:**	SW8081B	**Analyzed Date:**	7/23/2017	**Analytical Batch:**	425641
Units:	ug/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier
alpha-BHC	0.13	2.0	ND	
gamma-BHC (Lindane)	0.16	2.0	ND	
beta-BHC	0.32	2.0	ND	
delta-BHC	0.16	2.0	ND	
Heptachlor	0.11	2.0	ND	
Aldrin	0.20	2.0	ND	
Heptachlor Epoxide	0.078	2.0	ND	
gamma-Chlordane	0.16	2.0	ND	
alpha-Chlordane	0.17	2.0	ND	
4,4-DDE	0.19	2.0	ND	
Endosulfan I	0.18	2.0	ND	
Dieldrin	0.15	2.0	ND	
Endrin	0.19	2.0	ND	
4,4-DDD	0.57	2.0	ND	
Endosulfan II	0.58	2.0	ND	
4,4-DDT	0.13	2.0	ND	
Endrin Aldehyde	0.15	2.0	ND	
Methoxychlor	0.20	2.0	ND	
Endosulfan Sulfate	0.12	2.0	ND	
Endrin Ketone	0.094	2.0	ND	
Chlordane	2.1	20	ND	
Toxaphene	8.5	50	ND	
TCMX (S)			92.9	
DCBP (S)			124	

Work Order:	1707122	**Prep Method:**	% Water-P	**Prep Date:**	07/21/17	**Prep Batch:**	8446
Matrix:	Soil	**Analytical Method:**	ASTM D2216-90	**Analyzed Date:**	7/21/2017	**Analytical Batch:**	425657
Units:	%						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier
% Moisture	0.050	0.050	ND	

Torrent LABORATORY, INC.

LCS/LCSD Summary Report

Raw values are used in quality control assessment.

Work Order:	1707122	**Prep Method:**	6020S-P	**Prep Date:**	07/20/17	**Prep Batch:**	8276
Matrix:	Soil	**Analytical Method:**	6020A	**Analyzed Date:**	7/20/2017	**Analytical Batch:**	425519
Units:	mg/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
Arsenic	0.21	1.0	ND	25	90.4	98.9	8.88	80 - 120	30	

Work Order:	1707122	**Prep Method:**	6020S-P	**Prep Date:**	07/21/17	**Prep Batch:**	8321
Matrix:	Soil	**Analytical Method:**	6020A	**Analyzed Date:**	7/21/2017	**Analytical Batch:**	425540
Units:	mg/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
Antimony	0.12	1.0	ND	25	98.9	99.8	1.21	80 - 120	30	
Arsenic	0.21	1.0	ND	25	93.6	94.1	0.426	80 - 120	30	
Barium	0.84	1.0	ND	25	107	107	0.375	80 - 120	30	
Beryllium	0.16	1.0	ND	25	95.8	97.0	1.24	80 - 120	30	
Cadmium	0.084	1.0	ND	25	99.2	99.5	0.402	80 - 120	30	
Chromium	0.097	1.0	0.26	25	104	104	0.000	80 - 120	30	
Cobalt	0.21	1.0	ND	25	102	102	0.393	80 - 120	30	
Copper	0.17	2.5	ND	25	101	101	0.794	80 - 120	30	
Lead	0.054	1.0	ND	25	94.6	94.9	0.000	80 - 120	30	
Molybdenum	0.13	1.0	0.19	25	102	103	1.17	80 - 120	30	
Nickel	1.2	5.0	ND	25	103	103	0.000	80 - 120	30	
Selenium	0.035	2.5	ND	25	87.7	87.9	0.456	80 - 120	30	
Thallium	1.00	5.0	ND	25	90.2	91.1	0.881	80 - 120	30	
Vanadium	0.28	25	ND	25	95.2	96.4	1.25	80 - 120	30	
Zinc	0.70	2.5	ND	25	95.9	96.9	0.830	80 - 120	30	

Work Order:	1707122	**Prep Method:**	3546_PCB	**Prep Date:**	07/21/17	**Prep Batch:**	8323
Matrix:	Soil	**Analytical Method:**	SW8082A	**Analyzed Date:**	7/21/2017	**Analytical Batch:**	425546
Units:	ug/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
Aroclor1016	53	100	ND	600	108	97.5	9.76	25 - 145	30	
Aroclor1260	36	100	ND	600	105	95.2	9.67	30 - 145	30	
TCMX (S)				0.10	99.0	92.0		48 - 125		
DCBP (S)				0.10	114	104		48 - 135		

Torrent LABORATORY, INC.

LCS/LCSD Summary Report

Raw values are used in quality control assessment.

Work Order:	1707122	**Prep Method:**	6020S-P	**Prep Date:**	07/21/17	**Prep Batch:**	8336
Matrix:	Soil	**Analytical Method:**	6020A	**Analyzed Date:**	7/25/2017	**Analytical Batch:**	425557
Units:	mg/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
Antimony	0.12	1.0	0.19	25	98.5	97.7	0.816	80 - 120	30	
Arsenic	0.21	1.0	ND	25	100	100	0.000	80 - 120	30	
Barium	0.84	1.0	ND	25	97.7	97.9	0.409	80 - 120	30	
Beryllium	0.16	1.0	ND	25	99.0	99.1	0.000	80 - 120	30	
Cadmium	0.084	1.0	ND	25	99.7	99.9	0.401	80 - 120	30	
Chromium	0.097	1.0	0.17	25	103	102	0.781	80 - 120	30	
Cobalt	0.21	1.0	ND	25	100	101	0.000	80 - 120	30	
Copper	0.17	2.5	ND	25	103	103	0.778	80 - 120	30	
Lead	0.054	1.0	ND	25	105	106	0.760	80 - 120	30	
Molybdenum	0.13	1.0	0.20	25	101	101	0.000	80 - 120	30	
Nickel	1.2	5.0	ND	25	101	101	0.398	80 - 120	30	
Selenium	0.035	2.5	ND	25	102	103	0.781	80 - 120	30	
Silver	0.098	1.0	ND	25	98.7	98.9	0.000	80 - 120	30	
Thallium	1.00	5.0	ND	25	104	105	0.000	80 - 120	30	
Vanadium	0.28	25	ND	25	98.8	98.8	0.000	80 - 120	30	
Zinc	0.70	2.5	ND	25	101	102	0.000	80 - 120	30	

Work Order:	1707122	**Prep Method:**	7471BP	**Prep Date:**	07/21/17	**Prep Batch:**	8337
Matrix:	Soil	**Analytical Method:**	SW7471B	**Analyzed Date:**	7/25/2017	**Analytical Batch:**	425633
Units:	mg/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
Mercury	0.047	0.50	ND	1.25	111	111	0.000	80 - 120	30	

Work Order:	1707122	**Prep Method:**	7471BP	**Prep Date:**	07/21/17	**Prep Batch:**	8348
Matrix:	Soil	**Analytical Method:**	SW7471B	**Analyzed Date:**	7/25/2017	**Analytical Batch:**	425634
Units:	mg/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
Mercury	0.047	0.50	ND	1.25	105	104	1.53	80 - 120	30	

Torrent LABORATORY, INC.

LCS/LCSD Summary Report

Raw values are used in quality control assessment.

Work Order:	1707122	**Prep Method:**	3546_OCP	**Prep Date:**	07/22/17	**Prep Batch:**	8352
Matrix:	Soil	**Analytical Method:**	SW8081B	**Analyzed Date:**	7/23/2017	**Analytical Batch:**	425641
Units:	ug/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
gamma-BHC (Lindane)	0.16	2.0	ND	40	104	106	0.952	25 - 135	30	
Heptachlor	0.11	2.0	ND	40	99.4	101	1.00	40 - 130	30	
Aldrin	0.20	2.0	ND	40	104	105	0.955	25 - 140	30	
Dieldrin	0.15	2.0	ND	40	98.9	101	2.01	60 - 130	30	
Endrin	0.19	2.0	ND	40	91.9	94.0	2.15	55 - 135	30	
4,4-DDT	0.13	2.0	ND	40	89.4	93.3	4.38	45 - 140	30	
TCMX (S)				130	88.6	89.5		48 - 125		
DCBP (S)				130	107	113		38 - 135		

Torrent LABORATORY, INC.

MS/MSD Summary Report

Raw values are used in quality control assessment.

Work Order:	1707122	**Prep Method:**	6020S-P	**Prep Date:**	07/21/17	**Prep Batch:**	8321
Matrix:	**Soil**	**Analytical Method:**	6020A	**Analyzed Date:**	July 21	**Analytical Batch:**	425540
Spiked Sample:	1707122-001A						
Units:	mg/Kg						

Parameters	MDL	PQL	Sample Conc.	Spike Conc.	MS % Recovery	MSD % Recovery	MS/MSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
Antimony	0.12	1.0	ND	25	98.2	99.0	1.22	30.7 - 130	33	
Arsenic	0.21	1.0	3.35	25	88.1	89.4	1.17	71.0 - 121	33	
Barium	0.84	1.0	24.8	25	89.4	92.2	1.47	70.2 - 130	33	
Beryllium	0.16	1.0	ND	25	86.3	86.2	0.464	73.3 - 125	33	
Cadmium	0.084	1.0	ND	25	99.9	101	0.797	88.7 - 110	33	
Chromium	0.097	1.0	19.1	25	81.2	89.8	5.43	76.0 - 116	33	
Cobalt	0.21	1.0	4.19	25	91.7	93.0	1.10	57.4 - 122	33	
Copper	0.17	2.5	13.3	25	80.7	86.2	4.09	74.8 - 119	33	
Lead	0.054	1.0	5.33	25	82.7	84.0	1.15	57.9 - 118	33	
Molybdenum	0.13	1.0	ND	25	103	103	0.388	62.9 - 123	33	
Nickel	1.2	5.0	9.80	25	83.0	89.2	5.11	61.5 - 122	33	
Selenium	0.035	2.5	ND	25	86.3	88.1	1.83	62.0 - 111	33	
Silver	0.098	1.0	ND	25	36.8	37.1	0.758	81.1 - 109	33	S
Thallium	1.00	5.0	ND	25	83.8	84.4	0.943	39.2 - 125	33	
Vanadium	0.28	25	ND	25	86.8	94.1	4.10	65.8 - 122	33	
Zinc	0.70	2.5	20.3	25	81.0	83.2	1.22	59.9 - 122	33	

Torrent LABORATORY, INC.

MS/MSD Summary Report

Raw values are used in quality control assessment.

Work Order:	1707122	**Prep Method:**	6020S-P	**Prep Date:**	07/21/17	**Prep Batch:**	8336
Matrix:	**Soil**	**Analytical Method:**	6020A	**Analyzed Date:**	July 25	**Analytical Batch:**	425557
Spiked Sample:	1707122-019A						
Units:	mg/Kg						

Parameters	MDL	PQL	Sample Conc.	Spike Conc.	MS % Recovery	MSD % Recovery	MS/MSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
Antimony	0.12	1.0	ND	25	92.2	90.4	2.19	30.7 - 130	33	
Arsenic	0.21	1.0	4.64	25	103	94.5	7.16	71.0 - 121	33	
Barium	0.84	1.0	68.7	25	134	57.7	20.4	70.2 - 130	33	S
Beryllium	0.16	1.0	ND	25	81.1	79.2	2.49	73.3 - 125	33	
Cadmium	0.084	1.0	ND	25	100	95.6	4.90	88.7 - 110	33	
Chromium	0.097	1.0	20.9	25	136	116	9.56	76.0 - 116	33	S
Cobalt	0.21	1.0	5.78	25	99.0	90.4	7.13	57.4 - 122	33	
Copper	0.17	2.5	18.8	25	108	87.9	11.8	74.8 - 119	33	
Lead	0.054	1.0	13.1	25	112	100	7.56	57.9 - 118	33	
Molybdenum	0.13	1.0	ND	25	97.0	95.0	1.67	62.9 - 123	33	
Nickel	1.2	5.0	10.0	25	104	93.4	7.79	61.5 - 122	33	
Selenium	0.035	2.5	ND	25	94.0	90.5	3.90	62.0 - 111	33	
Silver	0.098	1.0	ND	25	93.0	90.1	3.49	81.1 - 109	33	
Thallium	1.00	5.0	ND	25	90.0	87.8	2.70	39.2 - 125	33	
Vanadium	0.28	25	25.0	25	137	107	13.3	65.8 - 122	33	S
Zinc	0.70	2.5	23.1	25	128	109	8.93	59.9 - 122	33	S

Work Order:	1707122	**Prep Method:**	7471BP	**Prep Date:**	07/21/17	**Prep Batch:**	8337
Matrix:	**Soil**	**Analytical Method:**	SW7471B	**Analyzed Date:**	7/25/2017	**Analytical Batch:**	425633
Spiked Sample:	1707122-019A						
Units:	mg/Kg						

Parameters	MDL	PQL	Sample Conc.	Spike Conc.	MS % Recovery	MSD % Recovery	MS/MSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
Mercury	0.047	0.50	ND	1.25	108	112	2.88	75 - 125	30	

Work Order:	1707122	**Prep Method:**	7471BP	**Prep Date:**	07/21/17	**Prep Batch:**	8348
Matrix:	**Soil**	**Analytical Method:**	SW7471B	**Analyzed Date:**	7/25/2017	**Analytical Batch:**	425634
Spiked Sample:	1707122-001A						
Units:	mg/Kg						

Parameters	MDL	PQL	Sample Conc.	Spike Conc.	MS % Recovery	MSD % Recovery	MS/MSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
Mercury	0.047	0.50	ND	1.25	114	106	7.94	75 - 125	30	

Torrent LABORATORY, INC.

Duplicate QC Summary Report

Work Order:	1707122	**Prep Method:**	% Water-P	**Prep Date:**	7/21/2017	**Prep Batch:**	8446
Matrix:		**Analytical Method:**	ASTM D2216-90	**Analyzed Date:**	07/21/17	**Analytical Batch:**	425657
Units:						**Lab Sample ID:**	1707122-001A-DUP-8446

Parameters	MDL	PQL	Sample Result	Duplicate Result	% RPD
% Moisture	0.050	0.0500	29.5	33.1	11.50

Work Order:	1707122	**Prep Method:**	% Water-P	**Prep Date:**	7/21/2017	**Prep Batch:**	8446
Matrix:		**Analytical Method:**	ASTM D2216-90	**Analyzed Date:**	07/21/17	**Analytical Batch:**	425657
Units:						**Lab Sample ID:**	1707122-011A-DUP-8446

Parameters	MDL	PQL	Sample Result	Duplicate Result	% RPD
% Moisture	0.050	0.0500	16.8	19.6	15.40

Work Order:	1707122	**Prep Method:**	% Water-P	**Prep Date:**	7/21/2017	**Prep Batch:**	8347
Matrix:		**Analytical Method:**	ASTM D2216-90	**Analyzed Date:**	07/21/17	**Analytical Batch:**	425559
Units:						**Lab Sample ID:**	1707122-021A-DUP-8347

Parameters	MDL	PQL	Sample Result	Duplicate Result	% RPD
% Moisture	0.050	0.0500	27.2	24.2	11.70

Work Order:	1707122	**Prep Method:**	6020S-P	**Prep Date:**	7/20/2017	**Prep Batch:**	8276
Matrix:		**Analytical Method:**	6020A	**Analyzed Date:**	07/20/17	**Analytical Batch:**	425519
Units:						**Lab Sample ID:**	1707122-023A-DUP-8276

Parameters	MDL	PQL	Sample Result	Duplicate Result	% RPD
Arsenic	0.23	1.1	14.9	13.2	12.00

Laboratory Qualifiers and Definitions

DEFINITIONS:

Accuracy/Bias (% Recovery) - The closeness of agreement between an observed value and an accepted reference value.
Blank (Method/Preparation Blank) -MB/PB - An analyte-free matrix to which all reagents are added in the same volumes/proportions as used in sample processing. The method blank is used to document contamination resulting from the analytical process.
Duplicate - a field sample and/or laboratory QC sample prepared in duplicate following all of the same processes and procedures used on the original sample (sample duplicate, LCSD, MSD)
Laboratory Control Sample (LCS ad LCSD) - A known matrix spiked with compounds representative of the target analyte(s). This is used to document laboratory performance.
Matrix - the component or substrate that contains the analyte of interest (e.g., - groundwater, sediment, soil, waste water, etc)
Matrix Spike (MS/MSD) - Client sample spiked with identical concentrations of target analyte (s). The spiking occurs prior to the sample preparation and analysis. They are used to document the precision and bias of a method in a given sample matrix.
Method Detection Limit (MDL) - the minimum concentration of a substance that can be measured and reported with a 99% confidence that the analyte concentration is greater than zero
Practical Quantitation Limit/Reporting Limit/Limit of Quantitation (PQL/RL/LOQ) - a laboratory determined value at 2 to 5 times above the MDL that can be reproduced in a manner that results in a 99% confidence level that the result is both accurate and precise. PQLs/RLs/LODs reflect all preparation factors and/or dilution factors that have been applied to the sample during the preparation and/or analytical processes.
Precision (%RPD) - The agreement among a set of replicate/duplicate measurements without regard to known value of the replicates
Surrogate (S) or (Surr) - An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. Surrogates are used in most organic analysis to demonstrate matrix compatibility with the chosen method of analysis
Tentatively Identified Compound (TIC) - A compound not contained within the analytical calibration standards but present in the GCMS library of defined compounds. When the library is searched for an unknown compound, it can frequently give a tentative identification to the compound based on retention time and primary and secondary ion match. TICs are reported as estimates and are candidates for further investigation.
Units: the unit of measure used to express the reported result - **mg/L** and ***mg/Kg*** (equivalent to PPM - parts per million in **liquid** and ***solid***), **ug/L** and ***ug/Kg*** (equivalent to PPB - parts per billion in **liquid** and ***solid***), **ug/m3**, ***mg/m3***, **ppbv** and ***ppmv*** (all units of measure for reporting concentrations in air), **%** (equivalent to 10000 ppm or 1,000,000 ppb), **ug/Wipe** (concentration found on the surface of a single Wipe usually taken over a 100cm2 surface)

LABORATORY QUALIFIERS:

B - Indicates when the analyte is found in the associated method or preparation blank
D - Surrogate is not recoverable due to the necessary dilution of the sample
E - Indicates the reportable value is outside of the calibration range of the instrument but within the linear range of the instrument (unless otherwise noted) Values reported with an E qualifier should be considered as estimated.
H- Indicates that the recommended holding time for the analyte or compound has been exceeded
J- Indicates a value between the method MDL and PQL and that the reported concentration should be considered as estimated rather the quantitative
NA - Not Analyzed
N/A - Not Applicable
ND - Not Detected at a concentration greater than the PQL/RL or, if reported to the MDL, at greater than the MDL.
NR - Not recoverable - a matrix spike concentration is not recoverable due to a concentration within the original sample that is greater than four times the spike concentration added
R- The % RPD between a duplicate set of samples is outside of the absolute values established by laboratory control charts
S- Spike recovery is outside of established method and/or laboratory control limits. Further explanation of the use of this qualifier should be included within a case narrative
X -Used to indicate that a value based on pattern identification is within the pattern range but not typical of the pattern found in standards. Further explanation may or may not be provided within the sample footnote and/or the case narrative.

Sample Receipt Checklist

Client Name: Cornerstone(Walnut Creek)

Project Name: 3141 Taylor Road

Work Order No.: 1707122

Date and Time Received: 7/19/2017 1:35:00PM

Received By: Helena Ueng

Physically Logged By: Helena Ueng

Checklist Completed By:

Carrier Name: First Courier

Chain of Custody (COC) Information

Chain of custody present?	Yes
Chain of custody signed when relinquished and received?	Yes
Chain of custody agrees with sample labels?	Yes
Custody seals intact on sample bottles?	Not Present

Sample Receipt Information

Custody seals intact on shipping container/cooler?	Not Present
Shipping Container/Cooler In Good Condition?	Yes
Samples in proper container/bottle?	Yes
Samples containers intact?	Yes
Sufficient sample volume for indicated test?	Yes

Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes			
Container/Temp Blank temperature in compliance?	Yes	Temperature:	1.0	°C
Water-VOA vials have zero headspace?				
Water-pH acceptable upon receipt?	N/A			

pH Checked by: N/A

pH Adjusted by: N/A

Comments:

Login Summary Report

Client ID:	TL5508	Cornerstone(Walnut Creek)	**QC Level:**	II
Project Name:	3141 Taylor Road		**TAT Requested:**	5+ day:5
Project # :	411-16-3		**Date Received:**	7/19/2017
Report Due Date:	7/26/2017		**Time Received:**	1:35 pm

Comments:

Work Order # : ***1707122***

WO Sample ID	Client Sample ID	Collection Date/Time	Matrix	Scheduled Disposal	Sample On Hold	Test On Hold	Requested Tests	Subbed
1707122-001A	SS-101 (0-0.5)	07/18/17 13:01	Soil	01/15/18			PMOIST Pest_S_8081OCP Met_S_6020CAM17 Hg_S_7471B	
Sample Note:	Metals by 6020, need to be reported to the MDL to meet RL of 0.5 mg/kg OCPs--need RLs of 2 ppb (40 ppb for Chlordane). Avoid diluting.							
1707122-002A	SS-102 (0-0.5)	07/18/17 13:02	Soil	01/15/18			PCBs_S_8082A Met_S_6020CAM17 Pest_S_8081OCP Hg_S_7471B PMOIST	
Sample Note:	PCBs--need RL of 50 ppb							
1707122-003A	SS-1 (0-0.5)	07/18/17 14:26	Soil	01/15/18			PMOIST Met_S_6020CAM17 Hg_S_7471B	
1707122-004A	SS-2 (0-0.5)	07/18/17 14:23	Soil	01/15/18			PMOIST Met_S_6020CAM17 Hg_S_7471B	
1707122-005A	SS-3 (0-0.5)	07/18/17 16:18	Soil	01/15/18			PMOIST Met_S_6020CAM17 Hg_S_7471B	
1707122-006A	SS-4 (0-0.5)	07/18/17 13:12	Soil	01/15/18			PMOIST Met_S_6020CAM17 Hg_S_7471B	
1707122-007A	SS-4 (2.5-3)	07/18/17 13:17	Soil	01/15/18			PMOIST Met_S_6020AsPb	
Sample Note:	6020-Arsenic only							
1707122-008A	SS-5 (0-0.5)	07/18/17 12:50	Soil	01/15/18				

Login Summary Report

Client ID: TL5508 Cornerstone(Walnut Creek)

Project Name: 3141 Taylor Road

Project # : 411-16-3

Report Due Date: 7/26/2017

QC Level: II

TAT Requested: 5+ day:5

Date Received: 7/19/2017

Time Received: 1:35 pm

Comments:

Work Order # : ***1707122***

WO Sample ID	Client Sample ID	Collection Date/Time	Matrix	Scheduled Disposal	Sample On Hold	Test On Hold	Requested Tests	Subbed
1707122-009A	SS-6 (0-0.5)	07/18/17 12:14	Soil	01/15/18			PMOIST Met_S_6020CAM17 Hg_S_7471B	
1707122-010A	SS-6 (2.5-3)	07/18/17 12:20	Soil	01/15/18			PMOIST Met_S_6020CAM17 Hg_S_7471B	
1707122-011A	SS-7 (0-0.5)	07/18/17 12:45	Soil	01/15/18			PMOIST Met_S_6020AsPb	
1707122-012A	SS-9 (0-0.5)	07/18/17 10:07	Soil	01/15/18			PMOIST Met_S_6020CAM17 Hg_S_7471B	
1707122-013A	SS-8 (0-0.5)	07/18/17 10:54	Soil	01/15/18			PMOIST Met_S_6020CAM17 Hg_S_7471B	
1707122-014A	SS-8 (2.5-3)	07/18/17 10:58	Soil	01/15/18			PMOIST Met_S_6020CAM17 Hg_S_7471B	
1707122-015A	SS-10 (0-0.5)	07/18/17 9:55	Soil	01/15/18			PMOIST Met_S_6020AsPb	
1707122-016A	SS-11 (0-0.5)	07/18/17 8:55	Soil	01/15/18			PMOIST Met_S_6020CAM17 Hg_S_7471B	
1707122-017A	SS-12 (0-0.5)	07/18/17 9:25	Soil	01/15/18			PMOIST Met_S_6020CAM17 Hg_S_7471B	

Login Summary Report

Client ID:	TL5508	Cornerstone(Walnut Creek)	**QC Level:**	II
Project Name:	3141 Taylor Road		**TAT Requested:**	5+ day:5
Project # :	411-16-3		**Date Received:**	7/19/2017
Report Due Date:	7/26/2017		**Time Received:**	1:35 pm

Comments:

Work Order # : ***1707122***

WO Sample ID	Client Sample ID	Collection Date/Time	Matrix	Scheduled Disposal	Sample On Hold	Test On Hold	Requested Tests	Subbed
1707122-018A	SS-12 (2.5-3)	07/18/17 9:30	Soil	01/15/18			PMOIST Met_S_6020AsPb	
1707122-019A	SS-13 (0-0.5)	07/18/17 10:33	Soil	01/15/18			Hg_S_7471B Met_S_6020CAM17 PMOIST	
1707122-020A	SS-14 (0-0.5)	07/18/17 10:46	Soil	01/15/18			Hg_S_7471B Met_S_6020CAM17 PMOIST	
1707122-021A	SS-15 (0-0.5)	07/18/17 10:56	Soil	01/15/18			PMOIST Met_S_6020CAM17 Hg_S_7471B	
1707122-022A	SS-16 (0-0.5)	07/18/17 11:27	Soil	01/15/18			PMOIST Met_S_6020CAM17 Hg_S_7471B	
1707122-023A	SS-16 (2.5-3)	07/18/17 11:39	Soil	01/15/18			PMOIST Met_S_6020AsPb	
1707122-024A	SS-17 (0-0.5)	07/18/17 12:53	Soil	01/15/18			PMOIST Hg_S_7471B Met_S_6020CAM17	

Torrent LABORATORY, INC.

CORNERSTONE EARTH GROUP

Chain of Custody Record

1707122

Cornerstone Earth Group, Inc.	Project Manager: Peter Langtry	Site Sampler: BMJ KAK	Date: 7/18/17
	Tel/Fax: 925-988-9500 ext. 217	Lab Contact: Kathie Evans	Lab: Torrent Laboratory, Inc.
1270 Springbrook Rd	Analysis Turnaround Time		
Walnut Creek, CA 94597			
(925)-988-9500 Phone	TAT if different from Below _____		
(925)-988-9501 FAX	☐ 1 week		
Project Name: 3141 Taylor Rd	■ 3 days		
Site: Loomis, CA	☐ 2 days		
Project Number: 411-16-3	☐ 1 day		

COC No: 1 of 6 COCs

Laboratory's Job No.

	Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample	Arsenic (EPA 6020)	CAM17 (EPA 6020)	OCPs (EPA 8081)	PCBs (EPA 8082)	HOLD	Laboratory's Sample Specific Notes:
-001A	SS-101 (0-0.5)	7/18/17	01:01	Liner	Sol	1			X	X			
-002A	SS-102 (0-0.5)		01:02						X	X	X		
-003A	SS-1 (0-0.5)		14:26						X				
-004A	SS-2 (0-0.5)		14:23						X				
-005A	SS-3 (0-0.5)		16:18						X				
-006A	SS-4 (0-0.5)		13:12						X				
-007A	SS-4 (2.5-3)		13:17					X					
-008A	SS-5 (0-0.5)		12:50						X				
-009A	SS-6 (0-0.5)		12:14						X				
-010A	SS-6 (2.5-3)		12:20					X	~~X~~ PCBs				Arsenic Only
-011A	SS-7 (0-0.5)		12:45						X				
-012A	SS-9 (0-0.5)		10:07						X				

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification

☐ Non-Hazardous ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown

Sample Disposal

☐ Return to Client ☐ Disposal by Lab ☐ Archive For _____ Months

Special Instructions/QC Requirements & Comments: If additional sample is needed, please use the liner.

Please CC: Brent Johnson, bjohnson@cornerstoneearth.com, with results

Please report all soil analyses on dry weight basis.

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
[signature]	Cornerstone Earth Group	7/19/17 11:30	[signature]	1st CLASS	7/19 11:30
[signature]	1st CLASS	7/19/17 1:35	[signature]	Torrent	7/19/17 13:35
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:

PCS Temp = 1°C #1

Torrent LABORATORY, INC.

CORNERSTONE EARTH GROUP

Chain of Custody Record

1707122

Cornerstone Earth Group, Inc.	Project Manager: Peter Langtry	Site Sampler: BMJ / KAK	Date: 7/18/17
	Tel/Fax: 925-988-9500 ext. 217	Lab Contact: Kathie Evans	Lab: Torrent Laboratory, Inc.
1270 Springbrook Rd	Analysis Turnaround Time		
Walnut Creek, CA 94597			
(925)-988-9500 Phone	TAT if different from Below _____		
(925)-988-9501 FAX	☐ 1 week		
Project Name: 3141 Taylor Rd	■ 3 days		
Site: Loomis, CA	☐ 2 days		
Project Number: 411-16-3	☐ 1 day		

COC No: 2 of 6 COCs

Laboratory's Job No.

	Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample	Arsenic (EPA 6020)	CAM17 (EPA 6020)	OCPs (EPA 8081)	PCBs (EPA 8082)	HOLD	Laboratory's Sample Specific Notes:
-013A	SS-8 (0-0.5)	7/18/17	10:54	Liner	Soil	1			X				
-014A	SS-8 (2.5-3)		10:58					X					
-015A	SS-~~9~~ BJ 10 (0-0.5)		09:55						X				
-016A	SS-11 (0-0.5)		08:55						X				
-017A	SS-12 (0-0.5)		09:25						X				
-018A	SS-12 (2.5-3)		09:30					X					
-019A	SS-13 (0-0.5)		10:33						X				
-020A	SS-14 (0-0.5)		10:46						X				
-021A	SS-15 (0-0.5)		10:56						X				
-022A	SS-16 (0-0.5)		11:27						X				
-023A	SS-16 (BJ 2.5-3)		11:39					X					
-024A	SS-17 (0-0.5)		12:53						X				

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other 1

Possible Hazard Identification

☐ Non-Hazardous ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown

Sample Disposal

☐ *Return to Client* ☐ *Disposal by Lab* ☐ *Archive For* _____ *Months*

Special Instructions/QC Requirements & Comments: If additional sample is needed, please use the liner.

Please CC: Brent Johnson, bjohnson@cornerstoneearth.com, with results

Please report all soil analyses on dry weight basis

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
[signature]	Cornerstone Earth Group	7/19/17 11:30	Derek	1st Class	7/19 1130
Relinquished by: Derek	Company: 1st Class	Date/Time: 7/19/17	Received by: 1:35 [signature]	Company: Torrent	Date/Time: 7/19/17 13:35
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:

FCS Temp=1°C #1

Cornerstone(Walnut Creek)
1270 Springbrook Rd., Ste. 101
Walnut Creek, California 94597
Tel: 925 988 9500
Fax: 925 988 9501

RE: 3141 Taylor Road

Work Order No.: 1707125

Dear Peter Langtry:

Torrent Laboratory, Inc. received 22 sample(s) on July 19, 2017 for the analyses presented in the following Report.

All data for associated QC met EPA or laboratory specification(s) except where noted in the case narrative.

Torrent Laboratory, Inc. is certified by the State of California, ELAP #1991. If you have any questions regarding these test results, please feel free to contact the Project Management Team at (408)263-5258; ext 204.

Patti L Sandrock
QA Officer

July 27, 2017
Date

Date: 7/27/2017

Client: Cornerstone(Walnut Creek)

Project: 3141 Taylor Road

Work Order: 1707125

CASE NARRATIVE

No issues encountered with the receiving, preparation, analysis or reporting of the results associated with this work order.

Unless otherwise indicated in the following narrative, no results have been method and/or field blank corrected.

Reported results relate only to the items/samples tested by the laboratory.

This report shall not be reproduced, except in full, without the written approval of Torrent Analytical, Inc.

Data is reported as dry weight. Where necessary, results are reported to the MDL to meet client reporting limits of 0.5 mg/kg for metals, 50 ug/kg for PCBs and 2 ug/kg for Pesticides (40 ug/kg for Toxaphene and Chlordane).

Although the EBQ-1 sample DCPB surrogate was outside of laboratory control limits (low bias) in the 8081 OCP analysis, insufficient sample was available for re-extraction and re-analysis. The TCMX surrogate is in control limits and the Method Blank, LCS and LCSD surrogates are all within laboratory control limits.

REVISIONS

Report revised to report metals and PCB data to the MDL as detailed in the above case narrative. The previously issued report did not have any metals data reported to the MDL. In addition, OCP data in the previous report was not reported as dry weight; that has been corrected such that OCP data is reported as dry weight in this revision.

Rev. 1 (7/27/17)

Torrent LABORATORY, INC.

Sample Result Summary

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date Received: 07/19/17
Date Reported: 07/27/17

SS-41 (0-0.5) 1707125-001

Parameters:	Analysis Method	DF	MDL	PQL	Results	Unit
Antimony	6020A	1	0.14	1.2	0.652	mg/Kg
Arsenic	6020A	1	0.25	1.2	12.9	mg/Kg
Beryllium	6020A	1	0.19	1.2	0.231	mg/Kg
Cadmium	6020A	1	0.10	1.2	0.239	mg/Kg
Chromium	6020A	1	0.12	1.2	51.4	mg/Kg
Cobalt	6020A	1	0.25	1.2	10.5	mg/Kg
Copper	6020A	1	0.20	3.0	39.7	mg/Kg
Lead	6020A	1	0.064	1.2	49.2	mg/Kg
Molybdenum	6020A	1	0.16	1.2	0.434	mg/Kg
Nickel	6020A	1	1.5	6.0	21.8	mg/Kg
Silver	6020A	1	0.12	1.2	0.120	mg/Kg
Vanadium	6020A	1	0.34	30	51.3	mg/Kg
Barium	6020A	10	2.0	2.4	99.5	mg/Kg
Zinc	6020A	10	1.7	6.0	122	mg/Kg
% Moisture	ASTM D2216-90	1	0.050	0.050	16.7	%
Dry Weight Factor	ASTM D2216-90	1			1.20	%
gamma-Chlordane	SW8081B	3	0.59	7.2	7.73	ug/Kg
alpha-Chlordane	SW8081B	3	0.62	7.2	7.24	ug/Kg
4,4-DDE	SW8081B	3	0.70	7.2	34.0	ug/Kg
4,4-DDT	SW8081B	3	0.46	7.2	25.2	ug/Kg
Chlordane	SW8081B	3	7.6	72	157	ug/Kg

Torrent LABORATORY, INC.

Sample Result Summary

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date Received: 07/19/17
Date Reported: 07/27/17

SS-42 (0-0.5) 1707125-002

Parameters:	Analysis Method	DF	MDL	PQL	Results	Unit
Antimony	6020A	1	0.17	1.4	1.02	mg/Kg
Arsenic	6020A	1	0.29	1.4	10.3	mg/Kg
Barium	6020A	1	1.2	1.4	68.7	mg/Kg
Chromium	6020A	1	0.14	1.4	43.4	mg/Kg
Cobalt	6020A	1	0.29	1.4	8.06	mg/Kg
Copper	6020A	1	0.24	3.5	38.0	mg/Kg
Lead	6020A	1	0.075	1.4	33.2	mg/Kg
Molybdenum	6020A	1	0.18	1.4	0.374	mg/Kg
Nickel	6020A	1	1.7	7.0	18.9	mg/Kg
Vanadium	6020A	1	0.39	35	42.1	mg/Kg
Zinc	6020A	1	0.98	3.5	63.6	mg/Kg
% Moisture	ASTM D2216-90	1	0.050	0.050	28.6	%
Dry Weight Factor	ASTM D2216-90	1			1.40	%
gamma-Chlordane	SW8081B	3	0.68	8.4	2.07	ug/Kg
alpha-Chlordane	SW8081B	3	0.73	8.4	1.51	ug/Kg
4,4-DDE	SW8081B	3	0.81	8.4	45.3	ug/Kg
4,4-DDT	SW8081B	3	0.54	8.4	55.8	ug/Kg
Chlordane	SW8081B	3	8.9	84	50.7	ug/Kg

SS-43 (0-0.5) 1707125-003

Parameters:	Analysis Method	DF	MDL	PQL	Results	Unit
Antimony	6020A	1	0.15	1.2	0.192	mg/Kg
Arsenic	6020A	1	0.25	1.2	9.99	mg/Kg
Barium	6020A	1	1.0	1.2	65.4	mg/Kg
Beryllium	6020A	1	0.19	1.2	0.196	mg/Kg
Cadmium	6020A	1	0.10	1.2	0.140	mg/Kg
Chromium	6020A	1	0.12	1.2	46.9	mg/Kg
Cobalt	6020A	1	0.26	1.2	8.41	mg/Kg
Copper	6020A	1	0.21	3.1	23.3	mg/Kg
Lead	6020A	1	0.065	1.2	8.56	mg/Kg
Molybdenum	6020A	1	0.16	1.2	0.339	mg/Kg
Nickel	6020A	1	1.5	6.1	21.4	mg/Kg
Vanadium	6020A	1	0.34	31	51.5	mg/Kg
Zinc	6020A	25	4.3	15	276	mg/Kg
% Moisture	ASTM D2216-90	1	0.050	0.050	17.7	%
Dry Weight Factor	ASTM D2216-90	1			1.22	%
4,4-DDE	SW8081B	3	0.71	7.3	21.8	ug/Kg
4,4-DDT	SW8081B	3	0.47	7.3	15.8	ug/Kg

Torrent LABORATORY, INC.

Sample Result Summary

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date Received: 07/19/17
Date Reported: 07/27/17

SS-44 (0-0.5) 1707125-004

Parameters:	Analysis Method	DF	MDL	PQL	Results	Unit
Antimony	6020A	1	0.21	1.7	0.445	mg/Kg
Arsenic	6020A	1	0.36	1.7	9.33	mg/Kg
Barium	6020A	1	1.4	1.7	63.9	mg/Kg
Cadmium	6020A	1	0.14	1.7	0.347	mg/Kg
Chromium	6020A	1	0.17	1.7	72.3	mg/Kg
Cobalt	6020A	1	0.36	1.7	7.48	mg/Kg
Copper	6020A	1	0.29	4.3	31.6	mg/Kg
Lead	6020A	1	0.091	1.7	38.1	mg/Kg
Molybdenum	6020A	1	0.22	1.7	2.55	mg/Kg
Nickel	6020A	1	2.1	8.6	35.4	mg/Kg
Vanadium	6020A	1	0.48	43	35.5	mg/Kg
Zinc	6020A	10	2.4	8.6	136	mg/Kg
% Moisture	ASTM D2216-90	1	0.050	0.050	41.6	%
Dry Weight Factor	ASTM D2216-90	1			1.71	%
4,4-DDE	SW8081B	3	1.00	10	250	ug/Kg
4,4-DDT	SW8081B	3	0.66	10	55.6	ug/Kg

SS-45 (0-0.5) 1707125-005

Parameters:	Analysis Method	DF	MDL	PQL	Results	Unit
Antimony	6020A	1	0.13	1.1	0.224	mg/Kg
Arsenic	6020A	1	0.23	1.1	13.2	mg/Kg
Barium	6020A	1	0.90	1.1	58.8	mg/Kg
Beryllium	6020A	1	0.17	1.1	0.195	mg/Kg
Cadmium	6020A	1	0.090	1.1	0.154	mg/Kg
Chromium	6020A	1	0.10	1.1	39.9	mg/Kg
Cobalt	6020A	1	0.23	1.1	12.4	mg/Kg
Copper	6020A	1	0.18	2.7	20.3	mg/Kg
Lead	6020A	1	0.058	1.1	19.1	mg/Kg
Molybdenum	6020A	1	0.14	1.1	0.340	mg/Kg
Nickel	6020A	1	1.3	5.4	16.7	mg/Kg
Vanadium	6020A	1	0.30	27	49.8	mg/Kg
Zinc	6020A	25	3.8	14	206	mg/Kg
% Moisture	ASTM D2216-90	1	0.050	0.050	7.48	%
Dry Weight Factor	ASTM D2216-90	1			1.08	%
4,4-DDE	SW8081B	3	0.63	6.5	114	ug/Kg
4,4-DDT	SW8081B	3	0.42	6.5	44.4	ug/Kg

Torrent LABORATORY, INC.

Sample Result Summary

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date Received: 07/19/17
Date Reported: 07/27/17

SS-46 (0-0.5) 1707125-006

Parameters:	Analysis Method	DF	MDL	PQL	Results	Unit
Antimony	6020A	1	0.12	1.0	0.379	mg/Kg
Arsenic	6020A	1	0.21	1.0	12.3	mg/Kg
Beryllium	6020A	1	0.16	1.0	0.198	mg/Kg
Cadmium	6020A	1	0.084	1.0	0.125	mg/Kg
Chromium	6020A	1	0.098	1.0	46.4	mg/Kg
Cobalt	6020A	1	0.21	1.0	8.76	mg/Kg
Copper	6020A	1	0.17	2.5	24.5	mg/Kg
Lead	6020A	1	0.054	1.0	14.9	mg/Kg
Molybdenum	6020A	1	0.13	1.0	0.456	mg/Kg
Nickel	6020A	1	1.3	5.1	18.8	mg/Kg
Vanadium	6020A	1	0.28	25	53.8	mg/Kg
Barium	6020A	10	1.7	2.0	71.1	mg/Kg
Zinc	6020A	10	1.4	5.1	75.4	mg/Kg
% Moisture	ASTM D2216-90	1	0.050	0.050	0.710	%
Dry Weight Factor	ASTM D2216-90	1			1.01	%
4,4-DDE	SW8081B	3	0.59	6.1	85.0	ug/Kg
4,4-DDT	SW8081B	3	0.39	6.1	16.2	ug/Kg

SS-47 (0-0.5) 1707125-007

Parameters:	Analysis Method	DF	MDL	PQL	Results	Unit
Arsenic	6020A	1	0.53	2.5	4.48	mg/Kg
Barium	6020A	1	2.1	2.5	24.8	mg/Kg
Chromium	6020A	1	0.25	2.5	19.7	mg/Kg
Cobalt	6020A	1	0.53	2.5	6.16	mg/Kg
Copper	6020A	1	0.43	6.4	17.8	mg/Kg
Lead	6020A	1	0.14	2.5	11.2	mg/Kg
Molybdenum	6020A	1	0.33	2.5	0.429	mg/Kg
Nickel	6020A	1	3.2	13	10.1	mg/Kg
Vanadium	6020A	1	0.71	64	14.5	mg/Kg
Zinc	6020A	1	1.8	6.4	23.1	mg/Kg
% Moisture	ASTM D2216-90	1	0.050	0.050	60.7	%
Dry Weight Factor	ASTM D2216-90	1			2.54	%
4,4-DDE	SW8081B	3	1.5	15	65.5	ug/Kg
4,4-DDT	SW8081B	3	0.98	15	14.8	ug/Kg

Torrent LABORATORY, INC.

Sample Result Summary

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date Received: 07/19/17
Date Reported: 07/27/17

SS-48 (0-0.5) 1707125-008

Parameters:	Analysis Method	DF	MDL	PQL	Results	Unit
Arsenic	6020A	1	0.28	1.4	1.08	mg/Kg
Barium	6020A	1	1.1	1.4	7.64	mg/Kg
Chromium	6020A	1	0.13	1.4	6.99	mg/Kg
Cobalt	6020A	1	0.28	1.4	0.793	mg/Kg
Copper	6020A	1	0.23	3.4	3.50	mg/Kg
Lead	6020A	1	0.072	1.4	1.36	mg/Kg
Nickel	6020A	1	1.7	6.8	2.72	mg/Kg
Vanadium	6020A	1	0.38	34	3.69	mg/Kg
Zinc	6020A	1	0.95	3.4	4.90	mg/Kg
% Moisture	ASTM D2216-90	1	0.050	0.050	26.0	%
Dry Weight Factor	ASTM D2216-90	1			1.35	%

SS-49 (0-0.5) 1707125-009

Parameters:	Analysis Method	DF	MDL	PQL	Results	Unit
Arsenic	6020A	1	0.31	1.5	5.37	mg/Kg
Barium	6020A	1	1.3	1.5	37.6	mg/Kg
Chromium	6020A	1	0.15	1.5	37.4	mg/Kg
Cobalt	6020A	1	0.32	1.5	7.49	mg/Kg
Copper	6020A	1	0.26	3.8	27.2	mg/Kg
Lead	6020A	1	0.080	1.5	3.45	mg/Kg
Nickel	6020A	1	1.9	7.5	16.5	mg/Kg
Vanadium	6020A	1	0.42	38	37.8	mg/Kg
Zinc	6020A	1	1.1	3.8	35.2	mg/Kg
% Moisture	ASTM D2216-90	1	0.050	0.050	33.4	%
Dry Weight Factor	ASTM D2216-90	1			1.50	%
4,4-DDE	SW8081B	3	0.87	9.0	12.2	ug/Kg

SS-50 (0-0.5) 1707125-010

Parameters:	Analysis Method	DF	MDL	PQL	Results	Unit
% Moisture	ASTM D2216-90	1	0.050	0.050	28.7	%
Dry Weight Factor	ASTM D2216-90	1			1.40	%

SS-50 (1-1.5) 1707125-011

Parameters:	Analysis Method	DF	MDL	PQL	Results	Unit
% Moisture	ASTM D2216-90	1	0.050	0.050	16.8	%
Dry Weight Factor	ASTM D2216-90	1			1.20	%

Torrent LABORATORY, INC.

Sample Result Summary

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date Received: 07/19/17
Date Reported: 07/27/17

SS-50 (2-3) 1707125-012

Parameters:	Analysis Method	DF	MDL	PQL	Results	Unit
% Moisture	ASTM D2216-90	1	0.050	0.050	25.6	%
Dry Weight Factor	ASTM D2216-90	1			1.34	%

SS-12A (0-0.5) 1707125-013

Parameters:	Analysis Method	DF	MDL	PQL	Results	Unit
Arsenic	6020A	1	0.25	1.2	8.09	mg/Kg
% Moisture	ASTM D2216-90	1	0.050	0.050	17.2	%
Dry Weight Factor	ASTM D2216-90	1			1.21	%

SS-12B (0-0.5) 1707125-014

Parameters:	Analysis Method	DF	MDL	PQL	Results	Unit
Arsenic	6020A	1	0.21	1.0	21.0	mg/Kg
% Moisture	ASTM D2216-90	1	0.050	0.050	0.810	%
Dry Weight Factor	ASTM D2216-90	1			1.01	%

SS-12C (0-0.5) 1707125-015

Parameters:	Analysis Method	DF	MDL	PQL	Results	Unit
Arsenic	6020A	1	0.21	1.0	17.7	mg/Kg
% Moisture	ASTM D2216-90	1	0.050	0.050	1.86	%
Dry Weight Factor	ASTM D2216-90	1			1.02	%

SS-12D (0-0.5) 1707125-016

Parameters:	Analysis Method	DF	MDL	PQL	Results	Unit
Arsenic	6020A	1	0.29	1.4	41.1	mg/Kg
% Moisture	ASTM D2216-90	1	0.050	0.050	28.1	%
Dry Weight Factor	ASTM D2216-90	1			1.39	%

BG-1 (0.5-1) 1707125-017

Parameters:	Analysis Method	DF	MDL	PQL	Results	Unit
Arsenic	6020A	1	0.27	1.3	4.60	mg/Kg
% Moisture	ASTM D2216-90	1	0.050	0.050	22.7	%
Dry Weight Factor	ASTM D2216-90	1			1.29	%

Torrent LABORATORY, INC.

Sample Result Summary

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date Received: 07/19/17
Date Reported: 07/27/17

BG-2 (0.5-1) 1707125-018

Parameters:	Analysis Method	DF	MDL	PQL	Results	Unit
Arsenic	6020A	1	0.28	1.3	5.20	mg/Kg
% Moisture	ASTM D2216-90	1	0.050	0.050	24.7	%
Dry Weight Factor	ASTM D2216-90	1			1.33	%

BG-3 (0.5-1) 1707125-019

Parameters:	Analysis Method	DF	MDL	PQL	Results	Unit
Arsenic	6020A	1	0.26	1.3	4.29	mg/Kg
% Moisture	ASTM D2216-90	1	0.050	0.050	19.9	%
Dry Weight Factor	ASTM D2216-90	1			1.25	%

BG-4 (0.5-1) 1707125-020

Parameters:	Analysis Method	DF	MDL	PQL	Results	Unit
Arsenic	6020A	1	0.21	1.0	4.55	mg/Kg
% Moisture	ASTM D2216-90	1	0.050	0.050	2.16	%
Dry Weight Factor	ASTM D2216-90	1			1.02	%

EqB-1 1707125-021

Parameters:	Analysis Method	DF	MDL	PQL	Results	Unit
Barium	SW6020A	1	0.066	0.50	2.3	ug/L
Chromium	SW6020A	1	0.044	0.50	2.2	ug/L
Molybdenum	SW6020A	1	0.018	0.50	1.0	ug/L
Nickel	SW6020A	1	0.30	1.0	1.6	ug/L
Zinc	SW6020A	1	0.59	2.0	9.7	ug/L

Trip Blank 1707125-022

Parameters:	Analysis Method	DF	MDL	PQL	Results	Unit

All compounds were non-detectable for this sample.

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-41 (0-0.5)	**Lab Sample ID:**	1707125-001A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 13:24		
SDG:			

Prep Method:	7471BP	**Prep Batch Date/Time:**	7/25/17	4:10:00PM
Prep Batch ID:	8445	**Prep Analyst:**	BJAY	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Mercury	SW7471B	1	0.10	0.60	ND		mg/Kg	07/26/17	11:32	BJAY	425666

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-41 (0-0.5)	**Lab Sample ID:**	1707125-001A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 13:24		
SDG:			

Prep Method:	6020S-P	**Prep Batch Date/Time:**	7/24/17 10:45:00AM
Prep Batch ID:	8367	**Prep Analyst:**	BJAY

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
The results shown below are reported using their MDL.											
Antimony	6020A	1	0.14	1.2	**0.652**	J	mg/Kg	07/26/17	13:15	ERR	425652
Arsenic	6020A	1	0.25	1.2	**12.9**		mg/Kg	07/26/17	13:15	ERR	425652
Beryllium	6020A	1	0.19	1.2	**0.231**	J	mg/Kg	07/26/17	13:15	ERR	425652
Cadmium	6020A	1	0.10	1.2	**0.239**	J	mg/Kg	07/26/17	13:15	ERR	425652
Chromium	6020A	1	0.12	1.2	**51.4**		mg/Kg	07/26/17	13:15	ERR	425652
Cobalt	6020A	1	0.25	1.2	**10.5**		mg/Kg	07/26/17	13:15	ERR	425652
Copper	6020A	1	0.20	3.0	**39.7**		mg/Kg	07/26/17	13:15	ERR	425652
Lead	6020A	1	0.064	1.2	**49.2**		mg/Kg	07/26/17	13:15	ERR	425652
Molybdenum	6020A	1	0.16	1.2	**0.434**	J	mg/Kg	07/26/17	13:15	ERR	425652
Nickel	6020A	1	1.5	6.0	**21.8**		mg/Kg	07/26/17	13:15	ERR	425652
Selenium	6020A	1	0.041	3.0	ND		mg/Kg	07/26/17	13:15	ERR	425652
Silver	6020A	1	0.12	1.2	**0.120**	J	mg/Kg	07/26/17	13:15	ERR	425652
Thallium	6020A	1	1.2	6.0	ND		mg/Kg	07/26/17	13:15	ERR	425652
Vanadium	6020A	1	0.34	30	**51.3**		mg/Kg	07/26/17	13:15	ERR	425652

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-41 (0-0.5)	**Lab Sample ID:**	1707125-001A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 13:24		
SDG:			

Prep Method:	6020S-P	**Prep Batch Date/Time:**	7/24/17	10:45:00AM
Prep Batch ID:	8367	**Prep Analyst:**	BJAY	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Barium	6020A	10	2.0	2.4	**99.5**		mg/Kg	07/26/17	18:23	ERR	425682
Zinc	6020A	10	1.7	6.0	**122**		mg/Kg	07/26/17	18:23	ERR	425682

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-41 (0-0.5)	**Lab Sample ID:**	1707125-001A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 13:24		
SDG:			

Prep Method:	3546_PCB	**Prep Batch Date/Time:**	7/25/17 1:04:00PM
Prep Batch ID:	8423	**Prep Analyst:**	SNARASIMHAN

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
The results shown below are reported using their MDL.											
Aroclor1016	SW8082A	1	64	120	ND		ug/Kg	07/26/17	4:37	mk	425624
Aroclor1221	SW8082A	1	6.0	120	ND		ug/Kg	07/26/17	4:37	mk	425624
Aroclor1232	SW8082A	1	20	120	ND		ug/Kg	07/26/17	4:37	mk	425624
Aroclor1242	SW8082A	1	3.6	120	ND		ug/Kg	07/26/17	4:37	mk	425624
Aroclor1248	SW8082A	1	2.4	120	ND		ug/Kg	07/26/17	4:37	mk	425624
Aroclor1254	SW8082A	1	2.4	120	ND		ug/Kg	07/26/17	4:37	mk	425624
Aroclor1260	SW8082A	1	43	120	ND		ug/Kg	07/26/17	4:37	mk	425624
			Acceptance Limits								
TCMX (S)	SW8082A		48 - 125		**86.0**		%	07/26/17	4:37	mk	425624
DCBP (S)	SW8082A		48 - 135		**131**		%	07/26/17	4:37	mk	425624

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-41 (0-0.5)	**Lab Sample ID:**	1707125-001A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 13:24		
SDG:			

Prep Method:	3546_OCP	**Prep Batch Date/Time:**	7/25/17 10:47:00AM
Prep Batch ID:	8412	**Prep Analyst:**	SNARASIMHAN

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
The results shown below are reported using their MDL.											
alpha-BHC	SW8081B	3	0.46	7.2	ND		ug/Kg	07/26/17	1:51	LA	425673
gamma-BHC (Lindane)	SW8081B	3	0.57	7.2	ND		ug/Kg	07/26/17	1:51	LA	425673
beta-BHC	SW8081B	3	1.1	7.2	ND		ug/Kg	07/26/17	1:51	LA	425673
delta-BHC	SW8081B	3	0.56	7.2	ND		ug/Kg	07/26/17	1:51	LA	425673
Heptachlor	SW8081B	3	0.38	7.2	ND		ug/Kg	07/26/17	1:51	LA	425673
Aldrin	SW8081B	3	0.70	7.2	ND		ug/Kg	07/26/17	1:51	LA	425673
Heptachlor Epoxide	SW8081B	3	0.28	7.2	ND		ug/Kg	07/26/17	1:51	LA	425673
gamma-Chlordane	SW8081B	3	0.59	7.2	**7.73**		ug/Kg	07/26/17	1:51	LA	425673
alpha-Chlordane	SW8081B	3	0.62	7.2	**7.24**		ug/Kg	07/26/17	1:51	LA	425673
4,4-DDE	SW8081B	3	0.70	7.2	**34.0**		ug/Kg	07/26/17	1:51	LA	425673
Endosulfan I	SW8081B	3	0.66	7.2	ND		ug/Kg	07/26/17	1:51	LA	425673
Dieldrin	SW8081B	3	0.53	7.2	ND		ug/Kg	07/26/17	1:51	LA	425673
Endrin	SW8081B	3	0.68	7.2	ND		ug/Kg	07/26/17	1:51	LA	425673
4,4-DDD	SW8081B	3	2.0	7.2	ND		ug/Kg	07/26/17	1:51	LA	425673
Endosulfan II	SW8081B	3	2.1	7.2	ND		ug/Kg	07/26/17	1:51	LA	425673
4,4-DDT	SW8081B	3	0.46	7.2	**25.2**		ug/Kg	07/26/17	1:51	LA	425673
Endrin Aldehyde	SW8081B	3	0.54	7.2	ND		ug/Kg	07/26/17	1:51	LA	425673
Methoxychlor	SW8081B	3	0.72	7.2	ND		ug/Kg	07/26/17	1:51	LA	425673
Endosulfan Sulfate	SW8081B	3	0.42	7.2	ND		ug/Kg	07/26/17	1:51	LA	425673
Endrin Ketone	SW8081B	3	0.34	7.2	ND		ug/Kg	07/26/17	1:51	LA	425673
Chlordane	SW8081B	3	7.6	72	**157**		ug/Kg	07/26/17	1:51	LA	425673
Toxaphene	SW8081B	3	31	180	ND		ug/Kg	07/26/17	1:51	LA	425673
			Acceptance Limits								
TCMX (S)	SW8081B		48 - 125		**86.8**		%	07/26/17	1:51	LA	425673
DCBP (S)	SW8081B		38 - 135		**110**		%	07/26/17	1:51	LA	425673

NOTE: Sample diluted due to nature of the matrix (dark, viscous extract)

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-41 (0-0.5)	**Lab Sample ID:**	1707125-001A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 13:24		
SDG:			

Prep Method:	% Water-P	**Prep Batch Date/Time:**	7/24/17	9:40:00PM
Prep Batch ID:	8441	**Prep Analyst:**	PHUFANO	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
% Moisture	ASTM D2216-90	1	0.050	0.050	**16.7**		%	07/24/17	21:40	PH	425654
Dry Weight Factor	ASTM D2216-90	1			**1.20**		-	07/24/17	21:40	PH	425654

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-42 (0-0.5)	**Lab Sample ID:**	1707125-002A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 14:00		
SDG:			

Prep Method:	7471BP	**Prep Batch Date/Time:**	7/25/17	4:10:00PM
Prep Batch ID:	8445	**Prep Analyst:**	BJAY	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Mercury	SW7471B	1	0.12	0.70	ND		mg/Kg	07/26/17	11:35	BJAY	425666

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-42 (0-0.5)	**Lab Sample ID:**	1707125-002A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 14:00		
SDG:			

Prep Method:	6020S-P	**Prep Batch Date/Time:**	7/24/17	10:45:00AM
Prep Batch ID:	8367	**Prep Analyst:**	BJAY	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
The results shown below are reported using their MDL.											
Antimony	6020A	1	0.17	1.4	**1.02**	J	mg/Kg	07/26/17	13:40	ERR	425652
Arsenic	6020A	1	0.29	1.4	**10.3**		mg/Kg	07/26/17	13:40	ERR	425652
Barium	6020A	1	1.2	1.4	**68.7**		mg/Kg	07/26/17	13:40	ERR	425652
Beryllium	6020A	1	0.22	1.4	ND		mg/Kg	07/26/17	13:40	ERR	425652
Cadmium	6020A	1	0.12	1.4	ND		mg/Kg	07/26/17	13:40	ERR	425652
Chromium	6020A	1	0.14	1.4	**43.4**		mg/Kg	07/26/17	13:40	ERR	425652
Cobalt	6020A	1	0.29	1.4	**8.06**		mg/Kg	07/26/17	13:40	ERR	425652
Copper	6020A	1	0.24	3.5	**38.0**		mg/Kg	07/26/17	13:40	ERR	425652
Lead	6020A	1	0.075	1.4	**33.2**		mg/Kg	07/26/17	13:40	ERR	425652
Molybdenum	6020A	1	0.18	1.4	**0.374**	J	mg/Kg	07/26/17	13:40	ERR	425652
Nickel	6020A	1	1.7	7.0	**18.9**		mg/Kg	07/26/17	13:40	ERR	425652
Selenium	6020A	1	0.048	3.5	ND		mg/Kg	07/26/17	13:40	ERR	425652
Silver	6020A	1	0.14	1.4	ND		mg/Kg	07/26/17	13:40	ERR	425652
Thallium	6020A	1	1.4	7.0	ND		mg/Kg	07/26/17	13:40	ERR	425652
Vanadium	6020A	1	0.39	35	**42.1**		mg/Kg	07/26/17	13:40	ERR	425652
Zinc	6020A	1	0.98	3.5	**63.6**		mg/Kg	07/26/17	13:40	ERR	425652

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-42 (0-0.5)	**Lab Sample ID:**	1707125-002A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 14:00		
SDG:			

Prep Method:	3546_PCB	**Prep Batch Date/Time:**	7/25/17 1:04:00PM
Prep Batch ID:	8423	**Prep Analyst:**	SNARASIMHAN

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
The results shown below are reported using their MDL.											
Aroclor1016	SW8082A	1	74	140	ND		ug/Kg	07/26/17	4:51	mk	425624
Aroclor1221	SW8082A	1	7.0	140	ND		ug/Kg	07/26/17	4:51	mk	425624
Aroclor1232	SW8082A	1	24	140	ND		ug/Kg	07/26/17	4:51	mk	425624
Aroclor1242	SW8082A	1	4.2	140	ND		ug/Kg	07/26/17	4:51	mk	425624
Aroclor1248	SW8082A	1	2.8	140	ND		ug/Kg	07/26/17	4:51	mk	425624
Aroclor1254	SW8082A	1	2.8	140	ND		ug/Kg	07/26/17	4:51	mk	425624
Aroclor1260	SW8082A	1	50	140	ND		ug/Kg	07/26/17	4:51	mk	425624
			Acceptance Limits								
TCMX (S)	SW8082A		48 - 125		**83.0**		%	07/26/17	4:51	mk	425624
DCBP (S)	SW8082A		48 - 135		**123**		%	07/26/17	4:51	mk	425624

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-42 (0-0.5)	**Lab Sample ID:**	1707125-002A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 14:00		
SDG:			

Prep Method:	3546_OCP	**Prep Batch Date/Time:**	7/25/17 10:47:00AM
Prep Batch ID:	8412	**Prep Analyst:**	SNARASIMHAN

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
The results shown below are reported using their MDL.											
alpha-BHC	SW8081B	3	0.53	8.4	ND		ug/Kg	07/26/17	2:06	LA	425673
gamma-BHC (Lindane)	SW8081B	3	0.67	8.4	ND		ug/Kg	07/26/17	2:06	LA	425673
beta-BHC	SW8081B	3	1.3	8.4	ND		ug/Kg	07/26/17	2:06	LA	425673
delta-BHC	SW8081B	3	0.65	8.4	ND		ug/Kg	07/26/17	2:06	LA	425673
Heptachlor	SW8081B	3	0.44	8.4	ND		ug/Kg	07/26/17	2:06	LA	425673
Aldrin	SW8081B	3	0.82	8.4	ND		ug/Kg	07/26/17	2:06	LA	425673
Heptachlor Epoxide	SW8081B	3	0.33	8.4	ND		ug/Kg	07/26/17	2:06	LA	425673
gamma-Chlordane	SW8081B	3	0.68	8.4	**2.07**	J	ug/Kg	07/26/17	2:06	LA	425673
alpha-Chlordane	SW8081B	3	0.73	8.4	**1.51**	J	ug/Kg	07/26/17	2:06	LA	425673
4,4-DDE	SW8081B	3	0.81	8.4	**45.3**		ug/Kg	07/26/17	2:06	LA	425673
Endosulfan I	SW8081B	3	0.77	8.4	ND		ug/Kg	07/26/17	2:06	LA	425673
Dieldrin	SW8081B	3	0.62	8.4	ND		ug/Kg	07/26/17	2:06	LA	425673
Endrin	SW8081B	3	0.79	8.4	ND		ug/Kg	07/26/17	2:06	LA	425673
4,4-DDD	SW8081B	3	2.4	8.4	ND		ug/Kg	07/26/17	2:06	LA	425673
Endosulfan II	SW8081B	3	2.4	8.4	ND		ug/Kg	07/26/17	2:06	LA	425673
4,4-DDT	SW8081B	3	0.54	8.4	**55.8**		ug/Kg	07/26/17	2:06	LA	425673
Endrin Aldehyde	SW8081B	3	0.63	8.4	ND		ug/Kg	07/26/17	2:06	LA	425673
Methoxychlor	SW8081B	3	0.84	8.4	ND		ug/Kg	07/26/17	2:06	LA	425673
Endosulfan Sulfate	SW8081B	3	0.49	8.4	ND		ug/Kg	07/26/17	2:06	LA	425673
Endrin Ketone	SW8081B	3	0.39	8.4	ND		ug/Kg	07/26/17	2:06	LA	425673
Chlordane	SW8081B	3	8.9	84	**50.7**	J	ug/Kg	07/26/17	2:06	LA	425673
Toxaphene	SW8081B	3	36	210	ND		ug/Kg	07/26/17	2:06	LA	425673
			Acceptance Limits								
TCMX (S)	SW8081B		48 - 125		**80.8**		%	07/26/17	2:06	LA	425673
DCBP (S)	SW8081B		38 - 135		**103**		%	07/26/17	2:06	LA	425673

NOTE: Sample diluted due to nature of the matrix (dark, viscous extract)

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-42 (0-0.5)	**Lab Sample ID:**	1707125-002A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 14:00		
SDG:			

Prep Method:	% Water-P	**Prep Batch Date/Time:**	7/24/17	9:40:00PM
Prep Batch ID:	8441	**Prep Analyst:**	PHUFANO	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
% Moisture	ASTM D2216-90	1	0.050	0.050	**28.6**		%	07/24/17	21:40	PH	425654
Dry Weight Factor	ASTM D2216-90	1			**1.40**		-	07/24/17	21:40	PH	425654

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-43 (0-0.5)	**Lab Sample ID:**	1707125-003A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 12:21		
SDG:			

Prep Method:	7471BP	**Prep Batch Date/Time:**	7/25/17	4:10:00PM
Prep Batch ID:	8445	**Prep Analyst:**	BJAY	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Mercury	SW7471B	1	0.10	0.61	ND		mg/Kg	07/26/17	11:39	BJAY	425666

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-43 (0-0.5)	**Lab Sample ID:**	1707125-003A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 12:21		
SDG:			

Prep Method:	6020S-P	**Prep Batch Date/Time:**	7/24/17 10:45:00AM
Prep Batch ID:	8367	**Prep Analyst:**	BJAY

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
The results shown below are reported using their MDL.											
Antimony	6020A	1	0.15	1.2	**0.192**	J	mg/Kg	07/26/17	13:57	ERR	425652
Arsenic	6020A	1	0.25	1.2	**9.99**		mg/Kg	07/26/17	13:57	ERR	425652
Barium	6020A	1	1.0	1.2	**65.4**		mg/Kg	07/26/17	13:57	ERR	425652
Beryllium	6020A	1	0.19	1.2	**0.196**	J	mg/Kg	07/26/17	13:57	ERR	425652
Cadmium	6020A	1	0.10	1.2	**0.140**	J	mg/Kg	07/26/17	13:57	ERR	425652
Chromium	6020A	1	0.12	1.2	**46.9**		mg/Kg	07/26/17	13:57	ERR	425652
Cobalt	6020A	1	0.26	1.2	**8.41**		mg/Kg	07/26/17	13:57	ERR	425652
Copper	6020A	1	0.21	3.1	**23.3**		mg/Kg	07/26/17	13:57	ERR	425652
Lead	6020A	1	0.065	1.2	**8.56**		mg/Kg	07/26/17	13:57	ERR	425652
Molybdenum	6020A	1	0.16	1.2	**0.339**	J	mg/Kg	07/26/17	13:57	ERR	425652
Nickel	6020A	1	1.5	6.1	**21.4**		mg/Kg	07/26/17	13:57	ERR	425652
Selenium	6020A	1	0.042	3.1	ND		mg/Kg	07/26/17	13:57	ERR	425652
Silver	6020A	1	0.12	1.2	ND		mg/Kg	07/26/17	13:57	ERR	425652
Thallium	6020A	1	1.2	6.1	ND		mg/Kg	07/26/17	13:57	ERR	425652
Vanadium	6020A	1	0.34	31	**51.5**		mg/Kg	07/26/17	13:57	ERR	425652

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-43 (0-0.5)	**Lab Sample ID:**	1707125-003A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 12:21		
SDG:			

Prep Method:	6020S-P	**Prep Batch Date/Time:**	7/24/17	10:45:00AM
Prep Batch ID:	8367	**Prep Analyst:**	BJAY	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Zinc	6020A	25	4.3	15	**276**		mg/Kg	07/26/17	18:29	ERR	425682

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-43 (0-0.5)	**Lab Sample ID:**	1707125-003A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 12:21		
SDG:			

Prep Method:	3546_OCP	**Prep Batch Date/Time:**	7/25/17 10:47:00AM
Prep Batch ID:	8412	**Prep Analyst:**	SNARASIMHAN

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
The results shown below are reported using their MDL.											
alpha-BHC	SW8081B	3	0.46	7.3	ND		ug/Kg	07/26/17	2:21	LA	425673
gamma-BHC (Lindane)	SW8081B	3	0.58	7.3	ND		ug/Kg	07/26/17	2:21	LA	425673
beta-BHC	SW8081B	3	1.2	7.3	ND		ug/Kg	07/26/17	2:21	LA	425673
delta-BHC	SW8081B	3	0.57	7.3	ND		ug/Kg	07/26/17	2:21	LA	425673
Heptachlor	SW8081B	3	0.38	7.3	ND		ug/Kg	07/26/17	2:21	LA	425673
Aldrin	SW8081B	3	0.71	7.3	ND		ug/Kg	07/26/17	2:21	LA	425673
Heptachlor Epoxide	SW8081B	3	0.29	7.3	ND		ug/Kg	07/26/17	2:21	LA	425673
gamma-Chlordane	SW8081B	3	0.60	7.3	ND		ug/Kg	07/26/17	2:21	LA	425673
alpha-Chlordane	SW8081B	3	0.63	7.3	ND		ug/Kg	07/26/17	2:21	LA	425673
4,4-DDE	SW8081B	3	0.71	7.3	**21.8**		ug/Kg	07/26/17	2:21	LA	425673
Endosulfan I	SW8081B	3	0.67	7.3	ND		ug/Kg	07/26/17	2:21	LA	425673
Dieldrin	SW8081B	3	0.54	7.3	ND		ug/Kg	07/26/17	2:21	LA	425673
Endrin	SW8081B	3	0.69	7.3	ND		ug/Kg	07/26/17	2:21	LA	425673
4,4-DDD	SW8081B	3	2.1	7.3	ND		ug/Kg	07/26/17	2:21	LA	425673
Endosulfan II	SW8081B	3	2.1	7.3	ND		ug/Kg	07/26/17	2:21	LA	425673
4,4-DDT	SW8081B	3	0.47	7.3	**15.8**		ug/Kg	07/26/17	2:21	LA	425673
Endrin Aldehyde	SW8081B	3	0.55	7.3	ND		ug/Kg	07/26/17	2:21	LA	425673
Methoxychlor	SW8081B	3	0.73	7.3	ND		ug/Kg	07/26/17	2:21	LA	425673
Endosulfan Sulfate	SW8081B	3	0.43	7.3	ND		ug/Kg	07/26/17	2:21	LA	425673
Endrin Ketone	SW8081B	3	0.34	7.3	ND		ug/Kg	07/26/17	2:21	LA	425673
Chlordane	SW8081B	3	7.7	73	ND		ug/Kg	07/26/17	2:21	LA	425673
Toxaphene	SW8081B	3	31	180	ND		ug/Kg	07/26/17	2:21	LA	425673
			Acceptance Limits								
TCMX (S)	SW8081B		48 - 125		**80.3**		%	07/26/17	2:21	LA	425673
DCBP (S)	SW8081B		38 - 135		**93.0**		%	07/26/17	2:21	LA	425673

NOTE: Sample diluted due to nature of the matrix (dark, viscous extract)

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-43 (0-0.5)	**Lab Sample ID:**	1707125-003A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 12:21		
SDG:			

Prep Method:	% Water-P	**Prep Batch Date/Time:**	7/24/17	9:40:00PM
Prep Batch ID:	8441	**Prep Analyst:**	PHUFANO	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
% Moisture	ASTM D2216-90	1	0.050	0.050	**17.7**		%	07/24/17	21:40	PH	425654
Dry Weight Factor	ASTM D2216-90	1			**1.22**		-	07/24/17	21:40	PH	425654

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-44 (0-0.5)	**Lab Sample ID:**	1707125-004A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 12:41		
SDG:			

Prep Method:	7471BP	**Prep Batch Date/Time:**	7/25/17	4:10:00PM
Prep Batch ID:	8445	**Prep Analyst:**	BJAY	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Mercury	SW7471B	1	0.14	0.86	ND		mg/Kg	07/26/17	11:41	BJAY	425666

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-44 (0-0.5)	**Lab Sample ID:**	1707125-004A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 12:41		
SDG:			

Prep Method:	6020S-P	**Prep Batch Date/Time:**	7/24/17	10:45:00AM
Prep Batch ID:	8367	**Prep Analyst:**	BJAY	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
The results shown below are reported using their MDL.											
Antimony	6020A	1	0.21	1.7	**0.445**	J	mg/Kg	07/26/17	14:22	ERR	425652
Arsenic	6020A	1	0.36	1.7	**9.33**		mg/Kg	07/26/17	14:22	ERR	425652
Barium	6020A	1	1.4	1.7	**63.9**		mg/Kg	07/26/17	14:22	ERR	425652
Beryllium	6020A	1	0.27	1.7	ND		mg/Kg	07/26/17	14:22	ERR	425652
Cadmium	6020A	1	0.14	1.7	**0.347**	J	mg/Kg	07/26/17	14:22	ERR	425652
Chromium	6020A	1	0.17	1.7	**72.3**		mg/Kg	07/26/17	14:22	ERR	425652
Cobalt	6020A	1	0.36	1.7	**7.48**		mg/Kg	07/26/17	14:22	ERR	425652
Copper	6020A	1	0.29	4.3	**31.6**		mg/Kg	07/26/17	14:22	ERR	425652
Lead	6020A	1	0.091	1.7	**38.1**		mg/Kg	07/26/17	14:22	ERR	425652
Molybdenum	6020A	1	0.22	1.7	**2.55**		mg/Kg	07/26/17	14:22	ERR	425652
Nickel	6020A	1	2.1	8.6	**35.4**		mg/Kg	07/26/17	14:22	ERR	425652
Selenium	6020A	1	0.059	4.3	ND		mg/Kg	07/26/17	14:22	ERR	425652
Silver	6020A	1	0.17	1.7	ND		mg/Kg	07/26/17	14:22	ERR	425652
Thallium	6020A	1	1.7	8.6	ND		mg/Kg	07/26/17	14:22	ERR	425652
Vanadium	6020A	1	0.48	43	**35.5**	J	mg/Kg	07/26/17	14:22	ERR	425652

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-44 (0-0.5)	**Lab Sample ID:**	1707125-004A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 12:41		
SDG:			

Prep Method:	6020S-P	**Prep Batch Date/Time:**	7/24/17	10:45:00AM
Prep Batch ID:	8367	**Prep Analyst:**	BJAY	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Zinc	6020A	10	2.4	8.6	**136**		mg/Kg	07/26/17	18:34	ERR	425682

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-44 (0-0.5)	**Lab Sample ID:**	1707125-004A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 12:41		
SDG:			

Prep Method:	3546_OCP	**Prep Batch Date/Time:**	7/25/17 10:47:00AM
Prep Batch ID:	8412	**Prep Analyst:**	SNARASIMHAN

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
The results shown below are reported using their MDL.											
alpha-BHC	SW8081B	3	0.65	10	ND		ug/Kg	07/26/17	2:36	LA	425673
gamma-BHC (Lindane)	SW8081B	3	0.82	10	ND		ug/Kg	07/26/17	2:36	LA	425673
beta-BHC	SW8081B	3	1.6	10	ND		ug/Kg	07/26/17	2:36	LA	425673
delta-BHC	SW8081B	3	0.80	10	ND		ug/Kg	07/26/17	2:36	LA	425673
Heptachlor	SW8081B	3	0.54	10	ND		ug/Kg	07/26/17	2:36	LA	425673
Aldrin	SW8081B	3	1.0	10	ND		ug/Kg	07/26/17	2:36	LA	425673
Heptachlor Epoxide	SW8081B	3	0.40	10	ND		ug/Kg	07/26/17	2:36	LA	425673
gamma-Chlordane	SW8081B	3	0.84	10	ND		ug/Kg	07/26/17	2:36	LA	425673
alpha-Chlordane	SW8081B	3	0.89	10	ND		ug/Kg	07/26/17	2:36	LA	425673
4,4-DDE	SW8081B	3	1.00	10	**250**		ug/Kg	07/26/17	2:36	LA	425673
Endosulfan I	SW8081B	3	0.94	10	ND		ug/Kg	07/26/17	2:36	LA	425673
Dieldrin	SW8081B	3	0.76	10	ND		ug/Kg	07/26/17	2:36	LA	425673
Endrin	SW8081B	3	0.96	10	ND		ug/Kg	07/26/17	2:36	LA	425673
4,4-DDD	SW8081B	3	2.9	10	ND		ug/Kg	07/26/17	2:36	LA	425673
Endosulfan II	SW8081B	3	3.0	10	ND		ug/Kg	07/26/17	2:36	LA	425673
4,4-DDT	SW8081B	3	0.66	10	**55.6**		ug/Kg	07/26/17	2:36	LA	425673
Endrin Aldehyde	SW8081B	3	0.77	10	ND		ug/Kg	07/26/17	2:36	LA	425673
Methoxychlor	SW8081B	3	1.0	10	ND		ug/Kg	07/26/17	2:36	LA	425673
Endosulfan Sulfate	SW8081B	3	0.60	10	ND		ug/Kg	07/26/17	2:36	LA	425673
Endrin Ketone	SW8081B	3	0.48	10	ND		ug/Kg	07/26/17	2:36	LA	425673
Chlordane	SW8081B	3	11	100	ND		ug/Kg	07/26/17	2:36	LA	425673
Toxaphene	SW8081B	3	44	260	ND		ug/Kg	07/26/17	2:36	LA	425673
			Acceptance Limits								
TCMX (S)	SW8081B		48 - 125		**91.3**		%	07/26/17	2:36	LA	425673
DCBP (S)	SW8081B		38 - 135		**112**		%	07/26/17	2:36	LA	425673

NOTE: Sample diluted due to nature of the matrix (dark, viscous extract)

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-44 (0-0.5)	**Lab Sample ID:**	1707125-004A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 12:41		
SDG:			

Prep Method:	% Water-P	**Prep Batch Date/Time:**	7/24/17	9:40:00PM
Prep Batch ID:	8441	**Prep Analyst:**	PHUFANO	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
% Moisture	ASTM D2216-90	1	0.050	0.050	**41.6**		%	07/24/17	21:40	PH	425654
Dry Weight Factor	ASTM D2216-90	1			**1.71**		-	07/24/17	21:40	PH	425654

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-45 (0-0.5)	**Lab Sample ID:**	1707125-005A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 11:32		
SDG:			

Prep Method:	7471BP	**Prep Batch Date/Time:**	7/25/17	4:10:00PM
Prep Batch ID:	8445	**Prep Analyst:**	BJAY	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Mercury	SW7471B	1	0.090	0.54	ND		mg/Kg	07/26/17	11:43	BJAY	425666

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-45 (0-0.5)	**Lab Sample ID:**	1707125-005A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 11:32		
SDG:			

Prep Method:	6020S-P	**Prep Batch Date/Time:**	7/24/17 10:45:00AM
Prep Batch ID:	8367	**Prep Analyst:**	BJAY

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
The results shown below are reported using their MDL.											
Antimony	6020A	1	0.13	1.1	**0.224**	J	mg/Kg	07/26/17	14:30	ERR	425652
Arsenic	6020A	1	0.23	1.1	**13.2**		mg/Kg	07/26/17	14:30	ERR	425652
Barium	6020A	1	0.90	1.1	**58.8**		mg/Kg	07/26/17	14:30	ERR	425652
Beryllium	6020A	1	0.17	1.1	**0.195**	J	mg/Kg	07/26/17	14:30	ERR	425652
Cadmium	6020A	1	0.090	1.1	**0.154**	J	mg/Kg	07/26/17	14:30	ERR	425652
Chromium	6020A	1	0.10	1.1	**39.9**		mg/Kg	07/26/17	14:30	ERR	425652
Cobalt	6020A	1	0.23	1.1	**12.4**		mg/Kg	07/26/17	14:30	ERR	425652
Copper	6020A	1	0.18	2.7	**20.3**		mg/Kg	07/26/17	14:30	ERR	425652
Lead	6020A	1	0.058	1.1	**19.1**		mg/Kg	07/26/17	14:30	ERR	425652
Molybdenum	6020A	1	0.14	1.1	**0.340**	J	mg/Kg	07/26/17	14:30	ERR	425652
Nickel	6020A	1	1.3	5.4	**16.7**		mg/Kg	07/26/17	14:30	ERR	425652
Selenium	6020A	1	0.037	2.7	ND		mg/Kg	07/26/17	14:30	ERR	425652
Silver	6020A	1	0.11	1.1	ND		mg/Kg	07/26/17	14:30	ERR	425652
Thallium	6020A	1	1.1	5.4	ND		mg/Kg	07/26/17	14:30	ERR	425652
Vanadium	6020A	1	0.30	27	**49.8**		mg/Kg	07/26/17	14:30	ERR	425652

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-45 (0-0.5)	**Lab Sample ID:**	1707125-005A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 11:32		
SDG:			

Prep Method:	6020S-P	**Prep Batch Date/Time:**	7/24/17	10:45:00AM
Prep Batch ID:	8367	**Prep Analyst:**	BJAY	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Zinc	6020A	25	3.8	14	**206**		mg/Kg	07/26/17	18:39	ERR	425682

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-45 (0-0.5)	**Lab Sample ID:**	1707125-005A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 11:32		
SDG:			

Prep Method:	3546_OCP	**Prep Batch Date/Time:**	7/25/17 10:47:00AM
Prep Batch ID:	8412	**Prep Analyst:**	SNARASIMHAN

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
The results shown below are reported using their MDL.											
alpha-BHC	SW8081B	3	0.41	6.5	ND		ug/Kg	07/26/17	2:51	LA	425673
gamma-BHC (Lindane)	SW8081B	3	0.52	6.5	ND		ug/Kg	07/26/17	2:51	LA	425673
beta-BHC	SW8081B	3	1.0	6.5	ND		ug/Kg	07/26/17	2:51	LA	425673
delta-BHC	SW8081B	3	0.50	6.5	ND		ug/Kg	07/26/17	2:51	LA	425673
Heptachlor	SW8081B	3	0.34	6.5	ND		ug/Kg	07/26/17	2:51	LA	425673
Aldrin	SW8081B	3	0.63	6.5	ND		ug/Kg	07/26/17	2:51	LA	425673
Heptachlor Epoxide	SW8081B	3	0.25	6.5	ND		ug/Kg	07/26/17	2:51	LA	425673
gamma-Chlordane	SW8081B	3	0.53	6.5	ND		ug/Kg	07/26/17	2:51	LA	425673
alpha-Chlordane	SW8081B	3	0.56	6.5	ND		ug/Kg	07/26/17	2:51	LA	425673
4,4-DDE	SW8081B	3	0.63	6.5	**114**		ug/Kg	07/26/17	2:51	LA	425673
Endosulfan I	SW8081B	3	0.59	6.5	ND		ug/Kg	07/26/17	2:51	LA	425673
Dieldrin	SW8081B	3	0.48	6.5	ND		ug/Kg	07/26/17	2:51	LA	425673
Endrin	SW8081B	3	0.61	6.5	ND		ug/Kg	07/26/17	2:51	LA	425673
4,4-DDD	SW8081B	3	1.8	6.5	ND		ug/Kg	07/26/17	2:51	LA	425673
Endosulfan II	SW8081B	3	1.9	6.5	ND		ug/Kg	07/26/17	2:51	LA	425673
4,4-DDT	SW8081B	3	0.42	6.5	**44.4**		ug/Kg	07/26/17	2:51	LA	425673
Endrin Aldehyde	SW8081B	3	0.49	6.5	ND		ug/Kg	07/26/17	2:51	LA	425673
Methoxychlor	SW8081B	3	0.65	6.5	ND		ug/Kg	07/26/17	2:51	LA	425673
Endosulfan Sulfate	SW8081B	3	0.38	6.5	ND		ug/Kg	07/26/17	2:51	LA	425673
Endrin Ketone	SW8081B	3	0.30	6.5	ND		ug/Kg	07/26/17	2:51	LA	425673
Chlordane	SW8081B	3	6.8	65	ND		ug/Kg	07/26/17	2:51	LA	425673
Toxaphene	SW8081B	3	28	160	ND		ug/Kg	07/26/17	2:51	LA	425673
			Acceptance Limits								
TCMX (S)	SW8081B		48 - 125		**94.6**		%	07/26/17	2:51	LA	425673
DCBP (S)	SW8081B		38 - 135		**108**		%	07/26/17	2:51	LA	425673

NOTE: Sample diluted due to nature of the matrix (dark, viscous extract)

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-45 (0-0.5)	**Lab Sample ID:**	1707125-005A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 11:32		
SDG:			

Prep Method:	% Water-P	**Prep Batch Date/Time:**	7/24/17	9:40:00PM
Prep Batch ID:	8441	**Prep Analyst:**	PHUFANO	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
% Moisture	ASTM D2216-90	1	0.050	0.050	**7.48**		%	07/24/17	21:40	PH	425654
Dry Weight Factor	ASTM D2216-90	1			**1.08**		-	07/24/17	21:40	PH	425654

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-46 (0-0.5)	**Lab Sample ID:**	1707125-006A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 11:18		
SDG:			

Prep Method:	7471BP	**Prep Batch Date/Time:**	7/25/17	4:10:00PM
Prep Batch ID:	8445	**Prep Analyst:**	BJAY	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Mercury	SW7471B	1	0.084	0.51	ND		mg/Kg	07/26/17	11:51	BJAY	425666

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-46 (0-0.5)	**Lab Sample ID:**	1707125-006A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 11:18		
SDG:			

Prep Method:	6020S-P	**Prep Batch Date/Time:**	7/24/17	10:45:00AM
Prep Batch ID:	8367	**Prep Analyst:**	BJAY	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
The results shown below are reported using their MDL.											
Antimony	6020A	1	0.12	1.0	**0.379**	J	mg/Kg	07/26/17	14:39	ERR	425652
Arsenic	6020A	1	0.21	1.0	**12.3**		mg/Kg	07/26/17	14:39	ERR	425652
Beryllium	6020A	1	0.16	1.0	**0.198**	J	mg/Kg	07/26/17	14:39	ERR	425652
Cadmium	6020A	1	0.084	1.0	**0.125**	J	mg/Kg	07/26/17	14:39	ERR	425652
Chromium	6020A	1	0.098	1.0	**46.4**		mg/Kg	07/26/17	14:39	ERR	425652
Cobalt	6020A	1	0.21	1.0	**8.76**		mg/Kg	07/26/17	14:39	ERR	425652
Copper	6020A	1	0.17	2.5	**24.5**		mg/Kg	07/26/17	14:39	ERR	425652
Lead	6020A	1	0.054	1.0	**14.9**		mg/Kg	07/26/17	14:39	ERR	425652
Molybdenum	6020A	1	0.13	1.0	**0.456**	J	mg/Kg	07/26/17	14:39	ERR	425652
Nickel	6020A	1	1.3	5.1	**18.8**		mg/Kg	07/26/17	14:39	ERR	425652
Selenium	6020A	1	0.035	2.5	ND		mg/Kg	07/26/17	14:39	ERR	425652
Silver	6020A	1	0.099	1.0	ND		mg/Kg	07/26/17	14:39	ERR	425652
Thallium	6020A	1	1.0	5.1	ND		mg/Kg	07/26/17	14:39	ERR	425652
Vanadium	6020A	1	0.28	25	**53.8**		mg/Kg	07/26/17	14:39	ERR	425652

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-46 (0-0.5)	**Lab Sample ID:**	1707125-006A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 11:18		
SDG:			

Prep Method:	6020S-P	**Prep Batch Date/Time:**	7/24/17	10:45:00AM
Prep Batch ID:	8367	**Prep Analyst:**	BJAY	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Barium	6020A	10	1.7	2.0	**71.1**		mg/Kg	07/26/17	18:45	ERR	425682
Zinc	6020A	10	1.4	5.1	**75.4**		mg/Kg	07/26/17	18:45	ERR	425682

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-46 (0-0.5)	**Lab Sample ID:**	1707125-006A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 11:18		
SDG:			

Prep Method:	3546_OCP	**Prep Batch Date/Time:**	7/25/17 12:59:00PM
Prep Batch ID:	8421	**Prep Analyst:**	SNARASIMHAN

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
The results shown below are reported using their MDL.											
alpha-BHC	SW8081B	3	0.38	6.1	ND		ug/Kg	07/26/17	3:06	LA	425673
gamma-BHC (Lindane)	SW8081B	3	0.48	6.1	ND		ug/Kg	07/26/17	3:06	LA	425673
beta-BHC	SW8081B	3	0.96	6.1	ND		ug/Kg	07/26/17	3:06	LA	425673
delta-BHC	SW8081B	3	0.47	6.1	ND		ug/Kg	07/26/17	3:06	LA	425673
Heptachlor	SW8081B	3	0.32	6.1	ND		ug/Kg	07/26/17	3:06	LA	425673
Aldrin	SW8081B	3	0.59	6.1	ND		ug/Kg	07/26/17	3:06	LA	425673
Heptachlor Epoxide	SW8081B	3	0.24	6.1	ND		ug/Kg	07/26/17	3:06	LA	425673
gamma-Chlordane	SW8081B	3	0.49	6.1	ND		ug/Kg	07/26/17	3:06	LA	425673
alpha-Chlordane	SW8081B	3	0.52	6.1	ND		ug/Kg	07/26/17	3:06	LA	425673
4,4-DDE	SW8081B	3	0.59	6.1	**85.0**		ug/Kg	07/26/17	3:06	LA	425673
Endosulfan I	SW8081B	3	0.55	6.1	ND		ug/Kg	07/26/17	3:06	LA	425673
Dieldrin	SW8081B	3	0.45	6.1	ND		ug/Kg	07/26/17	3:06	LA	425673
Endrin	SW8081B	3	0.57	6.1	ND		ug/Kg	07/26/17	3:06	LA	425673
4,4-DDD	SW8081B	3	1.7	6.1	ND		ug/Kg	07/26/17	3:06	LA	425673
Endosulfan II	SW8081B	3	1.7	6.1	ND		ug/Kg	07/26/17	3:06	LA	425673
4,4-DDT	SW8081B	3	0.39	6.1	**16.2**		ug/Kg	07/26/17	3:06	LA	425673
Endrin Aldehyde	SW8081B	3	0.46	6.1	ND		ug/Kg	07/26/17	3:06	LA	425673
Methoxychlor	SW8081B	3	0.61	6.1	ND		ug/Kg	07/26/17	3:06	LA	425673
Endosulfan Sulfate	SW8081B	3	0.35	6.1	ND		ug/Kg	07/26/17	3:06	LA	425673
Endrin Ketone	SW8081B	3	0.28	6.1	ND		ug/Kg	07/26/17	3:06	LA	425673
Chlordane	SW8081B	3	6.4	61	ND		ug/Kg	07/26/17	3:06	LA	425673
Toxaphene	SW8081B	3	26	150	ND		ug/Kg	07/26/17	3:06	LA	425673
			Acceptance Limits								
TCMX (S)	SW8081B		48 - 125		**89.1**		%	07/26/17	3:06	LA	425673
DCBP (S)	SW8081B		38 - 135		**102**		%	07/26/17	3:06	LA	425673

NOTE: Sample diluted due to nature of the matrix (dark, viscous extract)

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-46 (0-0.5)	**Lab Sample ID:**	1707125-006A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 11:18		
SDG:			

Prep Method:	% Water-P	**Prep Batch Date/Time:**	7/24/17	9:40:00PM
Prep Batch ID:	8441	**Prep Analyst:**	PHUFANO	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
% Moisture	ASTM D2216-90	1	0.050	0.050	**0.710**		%	07/24/17	21:40	PH	425654
Dry Weight Factor	ASTM D2216-90	1			**1.01**		-	07/24/17	21:40	PH	425654

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-47 (0-0.5)	**Lab Sample ID:**	1707125-007A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 14:35		
SDG:			

Prep Method:	7471BP	**Prep Batch Date/Time:**	7/25/17	4:10:00PM
Prep Batch ID:	8445	**Prep Analyst:**	BJAY	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Mercury	SW7471B	1	0.21	1.3	ND		mg/Kg	07/26/17	11:53	BJAY	425666

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-47 (0-0.5)	**Lab Sample ID:**	1707125-007A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 14:35		
SDG:			

Prep Method:	6020S-P	**Prep Batch Date/Time:**	7/24/17	10:45:00AM
Prep Batch ID:	8367	**Prep Analyst:**	BJAY	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
The results shown below are reported using their MDL.											
Antimony	6020A	1	0.31	2.5	ND		mg/Kg	07/26/17	14:47	ERR	425652
Arsenic	6020A	1	0.53	2.5	**4.48**		mg/Kg	07/26/17	14:47	ERR	425652
Barium	6020A	1	2.1	2.5	**24.8**		mg/Kg	07/26/17	14:47	ERR	425652
Beryllium	6020A	1	0.41	2.5	ND		mg/Kg	07/26/17	14:47	ERR	425652
Cadmium	6020A	1	0.21	2.5	ND		mg/Kg	07/26/17	14:47	ERR	425652
Chromium	6020A	1	0.25	2.5	**19.7**		mg/Kg	07/26/17	14:47	ERR	425652
Cobalt	6020A	1	0.53	2.5	**6.16**		mg/Kg	07/26/17	14:47	ERR	425652
Copper	6020A	1	0.43	6.4	**17.8**		mg/Kg	07/26/17	14:47	ERR	425652
Lead	6020A	1	0.14	2.5	**11.2**		mg/Kg	07/26/17	14:47	ERR	425652
Molybdenum	6020A	1	0.33	2.5	**0.429**	J	mg/Kg	07/26/17	14:47	ERR	425652
Nickel	6020A	1	3.2	13	**10.1**	J	mg/Kg	07/26/17	14:47	ERR	425652
Selenium	6020A	1	0.088	6.4	ND		mg/Kg	07/26/17	14:47	ERR	425652
Silver	6020A	1	0.25	2.5	ND		mg/Kg	07/26/17	14:47	ERR	425652
Thallium	6020A	1	2.5	13	ND		mg/Kg	07/26/17	14:47	ERR	425652
Vanadium	6020A	1	0.71	64	**14.5**	J	mg/Kg	07/26/17	14:47	ERR	425652
Zinc	6020A	1	1.8	6.4	**23.1**		mg/Kg	07/26/17	14:47	ERR	425652

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-47 (0-0.5)	**Lab Sample ID:**	1707125-007A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 14:35		
SDG:			

Prep Method:	3546_OCP	**Prep Batch Date/Time:**	7/25/17 12:59:00PM
Prep Batch ID:	8421	**Prep Analyst:**	SNARASIMHAN

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
The results shown below are reported using their MDL.											
alpha-BHC	SW8081B	3	0.97	15	ND		ug/Kg	07/26/17	3:21	LA	425673
gamma-BHC (Lindane)	SW8081B	3	1.2	15	ND		ug/Kg	07/26/17	3:21	LA	425673
beta-BHC	SW8081B	3	2.4	15	ND		ug/Kg	07/26/17	3:21	LA	425673
delta-BHC	SW8081B	3	1.2	15	ND		ug/Kg	07/26/17	3:21	LA	425673
Heptachlor	SW8081B	3	0.80	15	ND		ug/Kg	07/26/17	3:21	LA	425673
Aldrin	SW8081B	3	1.5	15	ND		ug/Kg	07/26/17	3:21	LA	425673
Heptachlor Epoxide	SW8081B	3	0.59	15	ND		ug/Kg	07/26/17	3:21	LA	425673
gamma-Chlordane	SW8081B	3	1.2	15	ND		ug/Kg	07/26/17	3:21	LA	425673
alpha-Chlordane	SW8081B	3	1.3	15	ND		ug/Kg	07/26/17	3:21	LA	425673
4,4-DDE	SW8081B	3	1.5	15	**65.5**		ug/Kg	07/26/17	3:21	LA	425673
Endosulfan I	SW8081B	3	1.4	15	ND		ug/Kg	07/26/17	3:21	LA	425673
Dieldrin	SW8081B	3	1.1	15	ND		ug/Kg	07/26/17	3:21	LA	425673
Endrin	SW8081B	3	1.4	15	ND		ug/Kg	07/26/17	3:21	LA	425673
4,4-DDD	SW8081B	3	4.3	15	ND		ug/Kg	07/26/17	3:21	LA	425673
Endosulfan II	SW8081B	3	4.4	15	ND		ug/Kg	07/26/17	3:21	LA	425673
4,4-DDT	SW8081B	3	0.98	15	**14.8**	J	ug/Kg	07/26/17	3:21	LA	425673
Endrin Aldehyde	SW8081B	3	1.2	15	ND		ug/Kg	07/26/17	3:21	LA	425673
Methoxychlor	SW8081B	3	1.5	15	ND		ug/Kg	07/26/17	3:21	LA	425673
Endosulfan Sulfate	SW8081B	3	0.89	15	ND		ug/Kg	07/26/17	3:21	LA	425673
Endrin Ketone	SW8081B	3	0.72	15	ND		ug/Kg	07/26/17	3:21	LA	425673
Chlordane	SW8081B	3	16	150	ND		ug/Kg	07/26/17	3:21	LA	425673
Toxaphene	SW8081B	3	65	380	ND		ug/Kg	07/26/17	3:21	LA	425673
			Acceptance Limits								
TCMX (S)	SW8081B		48 - 125		**91.0**		%	07/26/17	3:21	LA	425673
DCBP (S)	SW8081B		38 - 135		**101**		%	07/26/17	3:21	LA	425673

NOTE: Sample diluted due to nature of the matrix (dark, viscous extract)

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-47 (0-0.5)	**Lab Sample ID:**	1707125-007A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 14:35		
SDG:			

Prep Method:	% Water-P	**Prep Batch Date/Time:**	7/24/17	9:40:00PM
Prep Batch ID:	8441	**Prep Analyst:**	PHUFANO	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
% Moisture	ASTM D2216-90	1	0.050	0.050	**60.7**		%	07/24/17	21:40	PH	425654
Dry Weight Factor	ASTM D2216-90	1			**2.54**		-	07/24/17	21:40	PH	425654

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-48 (0-0.5)	**Lab Sample ID:**	1707125-008A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 14:43		
SDG:			

Prep Method:	7471BP	**Prep Batch Date/Time:**	7/25/17	4:10:00PM
Prep Batch ID:	8445	**Prep Analyst:**	BJAY	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Mercury	SW7471B	1	0.11	0.68	ND		mg/Kg	07/26/17	11:55	BJAY	425666

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-48 (0-0.5)	**Lab Sample ID:**	1707125-008A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 14:43		
SDG:			

Prep Method:	6020S-P	**Prep Batch Date/Time:**	7/24/17	10:45:00AM
Prep Batch ID:	8367	**Prep Analyst:**	BJAY	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
The results shown below are reported using their MDL.											
Antimony	6020A	1	0.16	1.4	ND		mg/Kg	07/26/17	14:55	ERR	425652
Arsenic	6020A	1	0.28	1.4	**1.08**	J	mg/Kg	07/26/17	14:55	ERR	425652
Barium	6020A	1	1.1	1.4	**7.64**		mg/Kg	07/26/17	14:55	ERR	425652
Beryllium	6020A	1	0.22	1.4	ND		mg/Kg	07/26/17	14:55	ERR	425652
Cadmium	6020A	1	0.11	1.4	ND		mg/Kg	07/26/17	14:55	ERR	425652
Chromium	6020A	1	0.13	1.4	**6.99**		mg/Kg	07/26/17	14:55	ERR	425652
Cobalt	6020A	1	0.28	1.4	**0.793**	J	mg/Kg	07/26/17	14:55	ERR	425652
Copper	6020A	1	0.23	3.4	**3.50**		mg/Kg	07/26/17	14:55	ERR	425652
Lead	6020A	1	0.072	1.4	**1.36**		mg/Kg	07/26/17	14:55	ERR	425652
Molybdenum	6020A	1	0.18	1.4	ND		mg/Kg	07/26/17	14:55	ERR	425652
Nickel	6020A	1	1.7	6.8	**2.72**	J	mg/Kg	07/26/17	14:55	ERR	425652
Selenium	6020A	1	0.047	3.4	ND		mg/Kg	07/26/17	14:55	ERR	425652
Silver	6020A	1	0.13	1.4	ND		mg/Kg	07/26/17	14:55	ERR	425652
Thallium	6020A	1	1.3	6.8	ND		mg/Kg	07/26/17	14:55	ERR	425652
Vanadium	6020A	1	0.38	34	**3.69**	J	mg/Kg	07/26/17	14:55	ERR	425652
Zinc	6020A	1	0.95	3.4	**4.90**		mg/Kg	07/26/17	14:55	ERR	425652

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-48 (0-0.5)	**Lab Sample ID:**	1707125-008A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 14:43		
SDG:			

Prep Method:	3546_OCP	**Prep Batch Date/Time:**	7/25/17 12:59:00PM
Prep Batch ID:	8421	**Prep Analyst:**	SNARASIMHAN

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
alpha-BHC	SW8081B	1	0.17	2.7	ND		ug/Kg	07/26/17	4:22	LA	425673
gamma-BHC (Lindane)	SW8081B	1	0.21	2.7	ND		ug/Kg	07/26/17	4:22	LA	425673
beta-BHC	SW8081B	1	0.43	2.7	ND		ug/Kg	07/26/17	4:22	LA	425673
delta-BHC	SW8081B	1	0.21	2.7	ND		ug/Kg	07/26/17	4:22	LA	425673
Heptachlor	SW8081B	1	0.14	2.7	ND		ug/Kg	07/26/17	4:22	LA	425673
Aldrin	SW8081B	1	0.26	2.7	ND		ug/Kg	07/26/17	4:22	LA	425673
Heptachlor Epoxide	SW8081B	1	0.11	2.7	ND		ug/Kg	07/26/17	4:22	LA	425673
gamma-Chlordane	SW8081B	1	0.22	2.7	ND		ug/Kg	07/26/17	4:22	LA	425673
alpha-Chlordane	SW8081B	1	0.23	2.7	ND		ug/Kg	07/26/17	4:22	LA	425673
4,4-DDE	SW8081B	1	0.26	2.7	ND		ug/Kg	07/26/17	4:22	LA	425673
Endosulfan I	SW8081B	1	0.25	2.7	ND		ug/Kg	07/26/17	4:22	LA	425673
Dieldrin	SW8081B	1	0.20	2.7	ND		ug/Kg	07/26/17	4:22	LA	425673
Endrin	SW8081B	1	0.25	2.7	ND		ug/Kg	07/26/17	4:22	LA	425673
4,4-DDD	SW8081B	1	0.76	2.7	ND		ug/Kg	07/26/17	4:22	LA	425673
Endosulfan II	SW8081B	1	0.78	2.7	ND		ug/Kg	07/26/17	4:22	LA	425673
4,4-DDT	SW8081B	1	0.17	2.7	ND		ug/Kg	07/26/17	4:22	LA	425673
Endrin Aldehyde	SW8081B	1	0.20	2.7	ND		ug/Kg	07/26/17	4:22	LA	425673
Methoxychlor	SW8081B	1	0.27	2.7	ND		ug/Kg	07/26/17	4:22	LA	425673
Endosulfan Sulfate	SW8081B	1	0.16	2.7	ND		ug/Kg	07/26/17	4:22	LA	425673
Endrin Ketone	SW8081B	1	0.13	2.7	ND		ug/Kg	07/26/17	4:22	LA	425673
Chlordane	SW8081B	1	2.8	27	ND		ug/Kg	07/26/17	4:22	LA	425673
Toxaphene	SW8081B	1	12	68	ND		ug/Kg	07/26/17	4:22	LA	425673
			Acceptance Limits								
TCMX (S)	SW8081B		48 - 125		**90.1**		%	07/26/17	4:22	LA	425673
DCBP (S)	SW8081B		38 - 135		**109**		%	07/26/17	4:22	LA	425673

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-48 (0-0.5)	**Lab Sample ID:**	1707125-008A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 14:43		
SDG:			

Prep Method:	% Water-P	**Prep Batch Date/Time:**	7/25/17	11:00:00AM
Prep Batch ID:	8447	**Prep Analyst:**	BJAY	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
% Moisture	ASTM D2216-90	1	0.050	0.050	**26.0**		%	07/25/17	11:00	PP	425660
Dry Weight Factor	ASTM D2216-90	1			**1.35**		-	07/25/17	11:00	PP	425660

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-49 (0-0.5)	**Lab Sample ID:**	1707125-009A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 14:50		
SDG:			

Prep Method:	7471BP	**Prep Batch Date/Time:**	7/25/17	4:10:00PM
Prep Batch ID:	8445	**Prep Analyst:**	BJAY	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Mercury	SW7471B	1	0.13	0.75	ND		mg/Kg	07/26/17	11:57	BJAY	425666

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-49 (0-0.5)	**Lab Sample ID:**	1707125-009A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 14:50		
SDG:			

Prep Method:	6020S-P	**Prep Batch Date/Time:**	7/24/17	10:45:00AM
Prep Batch ID:	8367	**Prep Analyst:**	BJAY	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
The results shown below are reported using their MDL.											
Antimony	6020A	1	0.18	1.5	ND		mg/Kg	07/26/17	15:04	ERR	425652
Arsenic	6020A	1	0.31	1.5	**5.37**		mg/Kg	07/26/17	15:04	ERR	425652
Barium	6020A	1	1.3	1.5	**37.6**		mg/Kg	07/26/17	15:04	ERR	425652
Beryllium	6020A	1	0.24	1.5	ND		mg/Kg	07/26/17	15:04	ERR	425652
Cadmium	6020A	1	0.13	1.5	ND		mg/Kg	07/26/17	15:04	ERR	425652
Chromium	6020A	1	0.15	1.5	**37.4**		mg/Kg	07/26/17	15:04	ERR	425652
Cobalt	6020A	1	0.32	1.5	**7.49**		mg/Kg	07/26/17	15:04	ERR	425652
Copper	6020A	1	0.26	3.8	**27.2**		mg/Kg	07/26/17	15:04	ERR	425652
Lead	6020A	1	0.080	1.5	**3.45**		mg/Kg	07/26/17	15:04	ERR	425652
Molybdenum	6020A	1	0.20	1.5	ND		mg/Kg	07/26/17	15:04	ERR	425652
Nickel	6020A	1	1.9	7.5	**16.5**		mg/Kg	07/26/17	15:04	ERR	425652
Selenium	6020A	1	0.052	3.8	ND		mg/Kg	07/26/17	15:04	ERR	425652
Silver	6020A	1	0.15	1.5	ND		mg/Kg	07/26/17	15:04	ERR	425652
Thallium	6020A	1	1.5	7.5	ND		mg/Kg	07/26/17	15:04	ERR	425652
Vanadium	6020A	1	0.42	38	**37.8**		mg/Kg	07/26/17	15:04	ERR	425652
Zinc	6020A	1	1.1	3.8	**35.2**		mg/Kg	07/26/17	15:04	ERR	425652

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-49 (0-0.5)	**Lab Sample ID:**	1707125-009A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 14:50		
SDG:			

Prep Method:	3546_OCP	**Prep Batch Date/Time:**	7/25/17 12:59:00PM
Prep Batch ID:	8421	**Prep Analyst:**	SNARASIMHAN

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
The results shown below are reported using their MDL.											
alpha-BHC	SW8081B	3	0.57	9.0	ND		ug/Kg	07/26/17	4:37	LA	425673
gamma-BHC (Lindane)	SW8081B	3	0.72	9.0	ND		ug/Kg	07/26/17	4:37	LA	425673
beta-BHC	SW8081B	3	1.4	9.0	ND		ug/Kg	07/26/17	4:37	LA	425673
delta-BHC	SW8081B	3	0.70	9.0	ND		ug/Kg	07/26/17	4:37	LA	425673
Heptachlor	SW8081B	3	0.47	9.0	ND		ug/Kg	07/26/17	4:37	LA	425673
Aldrin	SW8081B	3	0.88	9.0	ND		ug/Kg	07/26/17	4:37	LA	425673
Heptachlor Epoxide	SW8081B	3	0.35	9.0	ND		ug/Kg	07/26/17	4:37	LA	425673
gamma-Chlordane	SW8081B	3	0.73	9.0	ND		ug/Kg	07/26/17	4:37	LA	425673
alpha-Chlordane	SW8081B	3	0.78	9.0	ND		ug/Kg	07/26/17	4:37	LA	425673
4,4-DDE	SW8081B	3	0.87	9.0	**12.2**		ug/Kg	07/26/17	4:37	LA	425673
Endosulfan I	SW8081B	3	0.82	9.0	ND		ug/Kg	07/26/17	4:37	LA	425673
Dieldrin	SW8081B	3	0.67	9.0	ND		ug/Kg	07/26/17	4:37	LA	425673
Endrin	SW8081B	3	0.85	9.0	ND		ug/Kg	07/26/17	4:37	LA	425673
4,4-DDD	SW8081B	3	2.5	9.0	ND		ug/Kg	07/26/17	4:37	LA	425673
Endosulfan II	SW8081B	3	2.6	9.0	ND		ug/Kg	07/26/17	4:37	LA	425673
4,4-DDT	SW8081B	3	0.58	9.0	ND		ug/Kg	07/26/17	4:37	LA	425673
Endrin Aldehyde	SW8081B	3	0.68	9.0	ND		ug/Kg	07/26/17	4:37	LA	425673
Methoxychlor	SW8081B	3	0.90	9.0	ND		ug/Kg	07/26/17	4:37	LA	425673
Endosulfan Sulfate	SW8081B	3	0.53	9.0	ND		ug/Kg	07/26/17	4:37	LA	425673
Endrin Ketone	SW8081B	3	0.42	9.0	ND		ug/Kg	07/26/17	4:37	LA	425673
Chlordane	SW8081B	3	9.5	90	ND		ug/Kg	07/26/17	4:37	LA	425673
Toxaphene	SW8081B	3	38	230	ND		ug/Kg	07/26/17	4:37	LA	425673
			Acceptance Limits								
TCMX (S)	SW8081B		48 - 125		**93.5**		%	07/26/17	4:37	LA	425673
DCBP (S)	SW8081B		38 - 135		**114**		%	07/26/17	4:37	LA	425673

NOTE: Sample diluted due to nature of the matrix (dark, viscous extract)

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-49 (0-0.5)	**Lab Sample ID:**	1707125-009A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 14:50		
SDG:			

Prep Method:	% Water-P	**Prep Batch Date/Time:**	7/25/17	11:00:00AM
Prep Batch ID:	8447	**Prep Analyst:**	BJAY	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
% Moisture	ASTM D2216-90	1	0.050	0.050	**33.4**		%	07/25/17	11:00	PP	425660
Dry Weight Factor	ASTM D2216-90	1			**1.50**		-	07/25/17	11:00	PP	425660

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-50 (0-0.5)	**Lab Sample ID:**	1707125-010A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 15:56		
SDG:			

Prep Method:	3546_PCB	**Prep Batch Date/Time:**	7/25/17 1:04:00PM
Prep Batch ID:	8423	**Prep Analyst:**	SNARASIMHAN

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
The results shown below are reported using their MDL.											
Aroclor1016	SW8082A	1	74	140	ND		ug/Kg	07/26/17	5:05	mk	425624
Aroclor1221	SW8082A	1	7.0	140	ND		ug/Kg	07/26/17	5:05	mk	425624
Aroclor1232	SW8082A	1	24	140	ND		ug/Kg	07/26/17	5:05	mk	425624
Aroclor1242	SW8082A	1	4.2	140	ND		ug/Kg	07/26/17	5:05	mk	425624
Aroclor1248	SW8082A	1	2.8	140	ND		ug/Kg	07/26/17	5:05	mk	425624
Aroclor1254	SW8082A	1	2.8	140	ND		ug/Kg	07/26/17	5:05	mk	425624
Aroclor1260	SW8082A	1	50	140	ND		ug/Kg	07/26/17	5:05	mk	425624
			Acceptance Limits								
TCMX (S)	SW8082A		48 - 125		**92.0**		%	07/26/17	5:05	mk	425624
DCBP (S)	SW8082A		48 - 135		**134**		%	07/26/17	5:05	mk	425624

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-50 (0-0.5)	**Lab Sample ID:**	1707125-010A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 15:56		
SDG:			

Prep Method:	% Water-P	**Prep Batch Date/Time:**	7/25/17	11:00:00AM
Prep Batch ID:	8447	**Prep Analyst:**	BJAY	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
% Moisture	ASTM D2216-90	1	0.050	0.050	**28.7**		%	07/25/17	11:00	PP	425660
Dry Weight Factor	ASTM D2216-90	1			**1.40**		-	07/25/17	11:00	PP	425660

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-50 (1-1.5)	**Lab Sample ID:**	1707125-011A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 16:00		
SDG:			

Prep Method:	3546_PCB	**Prep Batch Date/Time:**	7/25/17 1:04:00PM
Prep Batch ID:	8423	**Prep Analyst:**	SNARASIMHAN

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
The results shown below are reported using their MDL.											
Aroclor1016	SW8082A	1	64	120	ND		ug/Kg	07/26/17	5:19	mk	425624
Aroclor1221	SW8082A	1	6.0	120	ND		ug/Kg	07/26/17	5:19	mk	425624
Aroclor1232	SW8082A	1	20	120	ND		ug/Kg	07/26/17	5:19	mk	425624
Aroclor1242	SW8082A	1	3.6	120	ND		ug/Kg	07/26/17	5:19	mk	425624
Aroclor1248	SW8082A	1	2.4	120	ND		ug/Kg	07/26/17	5:19	mk	425624
Aroclor1254	SW8082A	1	2.4	120	ND		ug/Kg	07/26/17	5:19	mk	425624
Aroclor1260	SW8082A	1	43	120	ND		ug/Kg	07/26/17	5:19	mk	425624
			Acceptance Limits								
TCMX (S)	SW8082A		48 - 125		**94.0**		%	07/26/17	5:19	mk	425624
DCBP (S)	SW8082A		48 - 135		**132**		%	07/26/17	5:19	mk	425624

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-50 (1-1.5)	**Lab Sample ID:**	1707125-011A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 16:00		
SDG:			

Prep Method:	% Water-P	**Prep Batch Date/Time:**	7/25/17	11:00:00AM
Prep Batch ID:	8447	**Prep Analyst:**	BJAY	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
% Moisture	ASTM D2216-90	1	0.050	0.050	**16.8**		%	07/25/17	11:00	PP	425660
Dry Weight Factor	ASTM D2216-90	1			**1.20**		-	07/25/17	11:00	PP	425660

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-50 (2-3)	**Lab Sample ID:**	1707125-012A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 16:05		
SDG:			

Prep Method:	3546_PCB	**Prep Batch Date/Time:**	7/25/17 1:04:00PM
Prep Batch ID:	8423	**Prep Analyst:**	SNARASIMHAN

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
The results shown below are reported using their MDL.											
Aroclor1016	SW8082A	1	71	130	ND		ug/Kg	07/26/17	6:30	mk	425624
Aroclor1221	SW8082A	1	6.7	130	ND		ug/Kg	07/26/17	6:30	mk	425624
Aroclor1232	SW8082A	1	23	130	ND		ug/Kg	07/26/17	6:30	mk	425624
Aroclor1242	SW8082A	1	4.0	130	ND		ug/Kg	07/26/17	6:30	mk	425624
Aroclor1248	SW8082A	1	2.7	130	ND		ug/Kg	07/26/17	6:30	mk	425624
Aroclor1254	SW8082A	1	2.7	130	ND		ug/Kg	07/26/17	6:30	mk	425624
Aroclor1260	SW8082A	1	48	130	ND		ug/Kg	07/26/17	6:30	mk	425624
			Acceptance Limits								
TCMX (S)	SW8082A		48 - 125		**94.0**		%	07/26/17	6:30	mk	425624
DCBP (S)	SW8082A		48 - 135		**135**		%	07/26/17	6:30	mk	425624

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-50 (2-3)	**Lab Sample ID:**	1707125-012A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 16:05		
SDG:			

Prep Method:	% Water-P	**Prep Batch Date/Time:**	7/25/17	11:00:00AM
Prep Batch ID:	8447	**Prep Analyst:**	BJAY	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
% Moisture	ASTM D2216-90	1	0.050	0.050	**25.6**		%	07/25/17	11:00	PP	425660
Dry Weight Factor	ASTM D2216-90	1			**1.34**		-	07/25/17	11:00	PP	425660

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-12A (0-0.5)	**Lab Sample ID:**	1707125-013A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 9:38		
SDG:			

Prep Method:	6020S-P	**Prep Batch Date/Time:**	7/20/17	11:40:00AM
Prep Batch ID:	8276	**Prep Analyst:**	BJAY	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Arsenic	6020A	1	0.25	1.2	**8.09**		mg/Kg	07/20/17	18:29	ERR	425519

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-12A (0-0.5)	**Lab Sample ID:**	1707125-013A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 9:38		
SDG:			

Prep Method:	% Water-P	**Prep Batch Date/Time:**	7/25/17	11:00:00AM
Prep Batch ID:	8447	**Prep Analyst:**	BJAY	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
% Moisture	ASTM D2216-90	1	0.050	0.050	**17.2**		%	07/25/17	11:00	PP	425660
Dry Weight Factor	ASTM D2216-90	1			**1.21**		-	07/25/17	11:00	PP	425660

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-12B (0-0.5)	**Lab Sample ID:**	1707125-014A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 9:45		
SDG:			

Prep Method:	6020S-P	**Prep Batch Date/Time:**	7/20/17	11:40:00AM
Prep Batch ID:	8276	**Prep Analyst:**	BJAY	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Arsenic	6020A	1	0.21	1.0	**21.0**		mg/Kg	07/20/17	18:33	ERR	425519

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-12B (0-0.5)	**Lab Sample ID:**	1707125-014A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 9:45		
SDG:			

Prep Method:	% Water-P	**Prep Batch Date/Time:**	7/25/17	11:00:00AM
Prep Batch ID:	8447	**Prep Analyst:**	BJAY	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
% Moisture	ASTM D2216-90	1	0.050	0.050	**0.810**		%	07/25/17	11:00	PP	425660
Dry Weight Factor	ASTM D2216-90	1			**1.01**		-	07/25/17	11:00	PP	425660

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-12C (0-0.5)	**Lab Sample ID:**	1707125-015A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 9:49		
SDG:			

Prep Method:	6020S-P	**Prep Batch Date/Time:**	7/20/17	11:40:00AM
Prep Batch ID:	8276	**Prep Analyst:**	BJAY	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Arsenic	6020A	1	0.21	1.0	**17.7**		mg/Kg	07/20/17	18:38	ERR	425519

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-12C (0-0.5)	**Lab Sample ID:**	1707125-015A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 9:49		
SDG:			

Prep Method:	% Water-P	**Prep Batch Date/Time:**	7/25/17	11:00:00AM
Prep Batch ID:	8447	**Prep Analyst:**	BJAY	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
% Moisture	ASTM D2216-90	1	0.050	0.050	**1.86**		%	07/25/17	11:00	PP	425660
Dry Weight Factor	ASTM D2216-90	1			**1.02**		-	07/25/17	11:00	PP	425660

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-12D (0-0.5)	**Lab Sample ID:**	1707125-016A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 9:54		
SDG:			

Prep Method:	6020S-P	**Prep Batch Date/Time:**	7/20/17	11:40:00AM
Prep Batch ID:	8276	**Prep Analyst:**	BJAY	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Arsenic	6020A	1	0.29	1.4	**41.1**		mg/Kg	07/20/17	18:42	ERR	425519

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	SS-12D (0-0.5)	**Lab Sample ID:**	1707125-016A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 9:54		
SDG:			

Prep Method:	% Water-P	**Prep Batch Date/Time:**	7/25/17	11:00:00AM
Prep Batch ID:	8447	**Prep Analyst:**	BJAY	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
% Moisture	ASTM D2216-90	1	0.050	0.050	**28.1**		%	07/25/17	11:00	PP	425660
Dry Weight Factor	ASTM D2216-90	1			**1.39**		-	07/25/17	11:00	PP	425660

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	BG-1 (0.5-1)	**Lab Sample ID:**	1707125-017A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 8:48		
SDG:			

Prep Method:	6020S-P	**Prep Batch Date/Time:**	7/20/17	11:40:00AM
Prep Batch ID:	8276	**Prep Analyst:**	BJAY	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Arsenic	6020A	1	0.27	1.3	**4.60**		mg/Kg	07/20/17	18:46	ERR	425519

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	BG-1 (0.5-1)	**Lab Sample ID:**	1707125-017A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 8:48		
SDG:			

Prep Method:	% Water-P	**Prep Batch Date/Time:**	7/25/17	11:00:00AM
Prep Batch ID:	8447	**Prep Analyst:**	BJAY	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
% Moisture	ASTM D2216-90	1	0.050	0.050	**22.7**		%	07/25/17	11:00	PP	425660
Dry Weight Factor	ASTM D2216-90	1			**1.29**		-	07/25/17	11:00	PP	425660

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	BG-2 (0.5-1)	**Lab Sample ID:**	1707125-018A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 8:43		
SDG:			

Prep Method:	6020S-P	**Prep Batch Date/Time:**	7/20/17	11:40:00AM
Prep Batch ID:	8276	**Prep Analyst:**	BJAY	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Arsenic	6020A	1	0.28	1.3	**5.20**		mg/Kg	07/20/17	18:51	ERR	425519

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	BG-2 (0.5-1)	**Lab Sample ID:**	1707125-018A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 8:43		
SDG:			

Prep Method:	% Water-P	**Prep Batch Date/Time:**	7/25/17	11:00:00AM
Prep Batch ID:	8447	**Prep Analyst:**	BJAY	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
% Moisture	ASTM D2216-90	1	0.050	0.050	**24.7**		%	07/25/17	11:00	PP	425660
Dry Weight Factor	ASTM D2216-90	1			**1.33**		-	07/25/17	11:00	PP	425660

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	BG-3 (0.5-1)	**Lab Sample ID:**	1707125-019A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 10:20		
SDG:			

Prep Method:	6020S-P	**Prep Batch Date/Time:**	7/20/17	11:40:00AM
Prep Batch ID:	8276	**Prep Analyst:**	BJAY	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Arsenic	6020A	1	0.26	1.3	**4.29**		mg/Kg	07/20/17	18:55	ERR	425519

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	BG-3 (0.5-1)	**Lab Sample ID:**	1707125-019A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 10:20		
SDG:			

Prep Method:	% Water-P	**Prep Batch Date/Time:**	7/25/17	11:00:00AM
Prep Batch ID:	8447	**Prep Analyst:**	BJAY	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
% Moisture	ASTM D2216-90	1	0.050	0.050	**19.9**		%	07/25/17	11:00	PP	425660
Dry Weight Factor	ASTM D2216-90	1			**1.25**		-	07/25/17	11:00	PP	425660

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	BG-4 (0.5-1)	**Lab Sample ID:**	1707125-020A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 10:25		
SDG:			

Prep Method:	6020S-P	**Prep Batch Date/Time:**	7/20/17	11:40:00AM
Prep Batch ID:	8276	**Prep Analyst:**	BJAY	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Arsenic	6020A	1	0.21	1.0	**4.55**		mg/Kg	07/20/17	19:08	ERR	425519

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	BG-4 (0.5-1)	**Lab Sample ID:**	1707125-020A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Soil
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 10:25		
SDG:			

Prep Method:	% Water-P	**Prep Batch Date/Time:**	7/25/17	11:00:00AM
Prep Batch ID:	8447	**Prep Analyst:**	BJAY	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
% Moisture	ASTM D2216-90	1	0.050	0.050	**2.16**		%	07/25/17	11:00	PP	425660
Dry Weight Factor	ASTM D2216-90	1			**1.02**		-	07/25/17	11:00	PP	425660

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	EqB-1	**Lab Sample ID:**	1707125-021A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Water
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 8:31		
SDG:			

Prep Method:	7470AP	**Prep Batch Date/Time:**	7/24/17	10:45:00AM
Prep Batch ID:	8368	**Prep Analyst:**	BJAY	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Mercury	SW7470A	1	0.00013	0.00020	ND		mg/L	07/24/17	16:40	BJAY	425630

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	EqB-1	**Lab Sample ID:**	1707125-021A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Water
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 8:31		
SDG:			

Prep Method:	6020W-P	**Prep Batch Date/Time:**	7/24/17	10:45:00AM
Prep Batch ID:	8424	**Prep Analyst:**	BJAY	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Antimony	SW6020A	1	0.019	0.50	ND		ug/L	07/26/17	11:59	ERR	425651
Arsenic	SW6020A	1	0.19	0.50	ND		ug/L	07/26/17	11:59	ERR	425651
Barium	SW6020A	1	0.066	0.50	**2.3**		ug/L	07/26/17	11:59	ERR	425651
Beryllium	SW6020A	1	0.018	0.50	ND		ug/L	07/26/17	11:59	ERR	425651
Cadmium	SW6020A	1	0.033	0.50	ND		ug/L	07/26/17	11:59	ERR	425651
Chromium	SW6020A	1	0.044	0.50	**2.2**		ug/L	07/26/17	11:59	ERR	425651
Cobalt	SW6020A	1	0.026	0.50	ND		ug/L	07/26/17	11:59	ERR	425651
Copper	SW6020A	1	0.64	2.0	ND		ug/L	07/26/17	11:59	ERR	425651
Lead	SW6020A	1	0.031	0.50	ND		ug/L	07/26/17	11:59	ERR	425651
Molybdenum	SW6020A	1	0.018	0.50	**1.0**		ug/L	07/26/17	11:59	ERR	425651
Nickel	SW6020A	1	0.30	1.0	**1.6**		ug/L	07/26/17	11:59	ERR	425651
Selenium	SW6020A	1	0.034	0.50	ND		ug/L	07/26/17	11:59	ERR	425651
Silver	SW6020A	1	0.012	0.50	ND		ug/L	07/26/17	11:59	ERR	425651
Thallium	SW6020A	1	0.0040	0.50	ND		ug/L	07/26/17	11:59	ERR	425651
Vanadium	SW6020A	1	0.020	0.50	ND		ug/L	07/26/17	11:59	ERR	425651
Zinc	SW6020A	1	0.59	2.0	**9.7**		ug/L	07/26/17	11:59	ERR	425651

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	EqB-1	**Lab Sample ID:**	1707125-021B
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Water
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 8:31		
SDG:			

Prep Method:	3510_PCB	**Prep Batch Date/Time:**	7/24/17	2:51:00PM
Prep Batch ID:	8387	**Prep Analyst:**	MKAUR	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Aroclor1016	SW8082A	1	0.70	10	ND		ug/L	07/24/17	15:53	mk	425620
Aroclor1221	SW8082A	1	5.6	10	ND		ug/L	07/24/17	15:53	mk	425620
Aroclor1232	SW8082A	1	1.2	10	ND		ug/L	07/24/17	15:53	mk	425620
Aroclor1242	SW8082A	1	3.8	10	ND		ug/L	07/24/17	15:53	mk	425620
Aroclor1248	SW8082A	1	5.5	10	ND		ug/L	07/24/17	15:53	mk	425620
Aroclor1254	SW8082A	1	0.20	10	ND		ug/L	07/24/17	15:53	mk	425620
Aroclor1260	SW8082A	1	0.50	10	ND		ug/L	07/24/17	15:53	mk	425620
			Acceptance Limits								
TCMX (S)	SW8082A		70 - 125		**108**		%	07/24/17	15:53	mk	425620
DCBP (S)	SW8082A		30 - 135		**118**		%	07/24/17	15:53	mk	425620

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	EqB-1	**Lab Sample ID:**	1707125-021B
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Water
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 8:31		
SDG:			

Prep Method:	3510_OCP	**Prep Batch Date/Time:**	7/19/17	4:09:00PM
Prep Batch ID:	8257	**Prep Analyst:**	LIMBAT	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
alpha-BHC	SW8081B	1	0.00065	0.020	ND		ug/L	07/21/17	14:53	LA	425638
gamma-BHC (Lindane)	SW8081B	1	0.0019	0.020	ND		ug/L	07/21/17	14:53	LA	425638
beta-BHC	SW8081B	1	0.0046	0.020	ND		ug/L	07/21/17	14:53	LA	425638
delta-BHC	SW8081B	1	0.0010	0.020	ND		ug/L	07/21/17	14:53	LA	425638
Heptachlor	SW8081B	1	0.010	0.020	ND		ug/L	07/21/17	14:53	LA	425638
Aldrin	SW8081B	1	0.00085	0.020	ND		ug/L	07/21/17	14:53	LA	425638
Heptachlor Epoxide	SW8081B	1	0.0031	0.020	ND		ug/L	07/21/17	14:53	LA	425638
gamma-Chlordane	SW8081B	1	0.0040	0.020	ND		ug/L	07/21/17	14:53	LA	425638
alpha-Chlordane	SW8081B	1	0.0035	0.020	ND		ug/L	07/21/17	14:53	LA	425638
4,4-DDE	SW8081B	1	0.0088	0.020	ND		ug/L	07/21/17	14:53	LA	425638
Endosulfan I	SW8081B	1	0.0060	0.020	ND		ug/L	07/21/17	14:53	LA	425638
Dieldrin	SW8081B	1	0.0031	0.020	ND		ug/L	07/21/17	14:53	LA	425638
Endrin	SW8081B	1	0.0034	0.020	ND		ug/L	07/21/17	14:53	LA	425638
4,4-DDD	SW8081B	1	0.0028	0.020	ND		ug/L	07/21/17	14:53	LA	425638
Endosulfan II	SW8081B	1	0.0021	0.020	ND		ug/L	07/21/17	14:53	LA	425638
4,4-DDT	SW8081B	1	0.0051	0.020	ND		ug/L	07/21/17	14:53	LA	425638
Endrin Aldehyde	SW8081B	1	0.014	0.020	ND		ug/L	07/21/17	14:53	LA	425638
Methoxychlor	SW8081B	1	0.0046	0.020	ND		ug/L	07/21/17	14:53	LA	425638
Endosulfan Sulfate	SW8081B	1	0.0027	0.020	ND		ug/L	07/21/17	14:53	LA	425638
Endrin Ketone	SW8081B	1	0.0080	0.020	ND		ug/L	07/21/17	14:53	LA	425638
Chlordane	SW8081B	1	0.13	0.25	ND		ug/L	07/21/17	14:53	LA	425638
Toxaphene	SW8081B	1	0.31	1.0	ND		ug/L	07/21/17	14:53	LA	425638
			Acceptance Limits								
TCMX (S)	SW8081B		35 - 105		**46.2**		%	07/21/17	14:53	LA	425638
DCBP (S)	SW8081B		44 - 101		**12.2**	S	%	07/21/17	14:53	LA	425638

NOTE: S-surrogate outside of control limits

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	Trip Blank	**Lab Sample ID:**	1707125-022A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Water
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 8:31		
SDG:			

Prep Method:	5030VOC	**Prep Batch Date/Time:**	7/20/17 10:33:00AM
Prep Batch ID:	8314	**Prep Analyst:**	BPATEL

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Dichlorodifluoromethane	SW8260B	1	0.26	0.50	ND		ug/L	07/20/17	22:08	BP	425531
Chloromethane	SW8260B	1	0.17	0.50	ND		ug/L	07/20/17	22:08	BP	425531
Vinyl Chloride	SW8260B	1	0.21	0.50	ND		ug/L	07/20/17	22:08	BP	425531
Bromomethane	SW8260B	1	0.21	0.50	ND		ug/L	07/20/17	22:08	BP	425531
Chloroethane	SW8260B	1	0.11	0.50	ND		ug/L	07/20/17	22:08	BP	425531
Trichlorofluoromethane	SW8260B	1	0.19	0.50	ND		ug/L	07/20/17	22:08	BP	425531
1,1-Dichloroethene	SW8260B	1	0.14	0.50	ND		ug/L	07/20/17	22:08	BP	425531
Freon 113	SW8260B	1	0.34	0.50	ND		ug/L	07/20/17	22:08	BP	425531
Methylene Chloride	SW8260B	1	0.13	0.50	ND		ug/L	07/20/17	22:08	BP	425531
trans-1,2-Dichloroethene	SW8260B	1	0.16	0.50	ND		ug/L	07/20/17	22:08	BP	425531
MTBE	SW8260B	1	0.077	0.50	ND		ug/L	07/20/17	22:08	BP	425531
tert-Butanol	SW8260B	1	7.4	10	ND		ug/L	07/20/17	22:08	BP	425531
Diisopropyl ether (DIPE)	SW8260B	1	0.12	0.50	ND		ug/L	07/20/17	22:08	BP	425531
1,1-Dichloroethane	SW8260B	1	0.12	0.50	ND		ug/L	07/20/17	22:08	BP	425531
ETBE	SW8260B	1	0.064	0.50	ND		ug/L	07/20/17	22:08	BP	425531
cis-1,2-Dichloroethene	SW8260B	1	0.15	0.50	ND		ug/L	07/20/17	22:08	BP	425531
2,2-Dichloropropane	SW8260B	1	0.094	0.50	ND		ug/L	07/20/17	22:08	BP	425531
Bromochloromethane	SW8260B	1	0.15	0.50	ND		ug/L	07/20/17	22:08	BP	425531
Chloroform	SW8260B	1	0.12	0.50	ND		ug/L	07/20/17	22:08	BP	425531
Carbon Tetrachloride	SW8260B	1	0.16	0.50	ND		ug/L	07/20/17	22:08	BP	425531
1,1,1-Trichloroethane	SW8260B	1	0.16	0.50	ND		ug/L	07/20/17	22:08	BP	425531
1,1-Dichloropropene	SW8260B	1	0.19	0.50	ND		ug/L	07/20/17	22:08	BP	425531
Benzene	SW8260B	1	0.16	0.50	ND		ug/L	07/20/17	22:08	BP	425531
TAME	SW8260B	1	0.072	0.50	ND		ug/L	07/20/17	22:08	BP	425531
1,2-Dichloroethane	SW8260B	1	0.11	0.50	ND		ug/L	07/20/17	22:08	BP	425531
Trichloroethylene	SW8260B	1	0.15	0.50	ND		ug/L	07/20/17	22:08	BP	425531
Dibromomethane	SW8260B	1	0.11	0.50	ND		ug/L	07/20/17	22:08	BP	425531
1,2-Dichloropropane	SW8260B	1	0.089	0.50	ND		ug/L	07/20/17	22:08	BP	425531
Bromodichloromethane	SW8260B	1	0.076	0.50	ND		ug/L	07/20/17	22:08	BP	425531
cis-1,3-Dichloropropene	SW8260B	1	0.078	0.50	ND		ug/L	07/20/17	22:08	BP	425531
Toluene	SW8260B	1	0.14	0.50	ND		ug/L	07/20/17	22:08	BP	425531
Tetrachloroethylene	SW8260B	1	0.24	0.50	ND		ug/L	07/20/17	22:08	BP	425531
trans-1,3-Dichloropropene	SW8260B	1	0.22	0.50	ND		ug/L	07/20/17	22:08	BP	425531
1,1,2-Trichloroethane	SW8260B	1	0.076	0.50	ND		ug/L	07/20/17	22:08	BP	425531
Dibromochloromethane	SW8260B	1	0.18	0.50	ND		ug/L	07/20/17	22:08	BP	425531

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Peter Langtry
Cornerstone(Walnut Creek)

Date/Time Received: 07/19/17, 1:35 pm
Date Reported: 07/27/17

Client Sample ID:	Trip Blank	**Lab Sample ID:**	1707125-022A
Project Name/Location:	3141 Taylor Road	**Sample Matrix:**	Water
Project Number:	411-16-3		
Date/Time Sampled:	07/18/17 / 8:31		
SDG:			

Prep Method:	5030VOC	**Prep Batch Date/Time:**	7/20/17 10:33:00AM
Prep Batch ID:	8314	**Prep Analyst:**	BPATEL

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
1,3-Dichloropropane	SW8260B	1	0.22	0.50	ND		ug/L	07/20/17	22:08	BP	425531
1,2-Dibromoethane	SW8260B	1	0.079	0.50	ND		ug/L	07/20/17	22:08	BP	425531
Chlorobenzene	SW8260B	1	0.16	0.50	ND		ug/L	07/20/17	22:08	BP	425531
Ethyl Benzene	SW8260B	1	0.20	0.50	ND		ug/L	07/20/17	22:08	BP	425531
1,1,1,2-Tetrachloroethane	SW8260B	1	0.087	0.50	ND		ug/L	07/20/17	22:08	BP	425531
m,p-Xylene	SW8260B	1	0.39	1.0	ND		ug/L	07/20/17	22:08	BP	425531
o-Xylene	SW8260B	1	0.15	0.50	ND		ug/L	07/20/17	22:08	BP	425531
Styrene	SW8260B	1	0.11	0.50	ND		ug/L	07/20/17	22:08	BP	425531
Bromoform	SW8260B	1	0.076	0.50	ND		ug/L	07/20/17	22:08	BP	425531
Isopropyl Benzene	SW8260B	1	0.22	0.50	ND		ug/L	07/20/17	22:08	BP	425531
n-Propylbenzene	SW8260B	1	0.30	0.50	ND		ug/L	07/20/17	22:08	BP	425531
Bromobenzene	SW8260B	1	0.15	0.50	ND		ug/L	07/20/17	22:08	BP	425531
1,1,2,2-Tetrachloroethane	SW8260B	1	0.079	0.50	ND		ug/L	07/20/17	22:08	BP	425531
2-Chlorotoluene	SW8260B	1	0.25	0.50	ND		ug/L	07/20/17	22:08	BP	425531
1,3,5-Trimethylbenzene	SW8260B	1	0.24	0.50	ND		ug/L	07/20/17	22:08	BP	425531
1,2,3-Trichloropropane	SW8260B	1	0.15	0.50	ND		ug/L	07/20/17	22:08	BP	425531
4-Chlorotoluene	SW8260B	1	0.22	0.50	ND		ug/L	07/20/17	22:08	BP	425531
tert-Butylbenzene	SW8260B	1	0.26	0.50	ND		ug/L	07/20/17	22:08	BP	425531
1,2,4-Trimethylbenzene	SW8260B	1	0.23	0.50	ND		ug/L	07/20/17	22:08	BP	425531
sec-Butyl Benzene	SW8260B	1	0.30	0.50	ND		ug/L	07/20/17	22:08	BP	425531
p-Isopropyltoluene	SW8260B	1	0.27	0.50	ND		ug/L	07/20/17	22:08	BP	425531
1,3-Dichlorobenzene	SW8260B	1	0.17	0.50	ND		ug/L	07/20/17	22:08	BP	425531
1,4-Dichlorobenzene	SW8260B	1	0.18	0.50	ND		ug/L	07/20/17	22:08	BP	425531
n-Butylbenzene	SW8260B	1	0.27	0.50	ND		ug/L	07/20/17	22:08	BP	425531
1,2-Dichlorobenzene	SW8260B	1	0.16	0.50	ND		ug/L	07/20/17	22:08	BP	425531
1,2-Dibromo-3-Chloropropane	SW8260B	1	0.76	2.0	ND		ug/L	07/20/17	22:08	BP	425531
Hexachlorobutadiene	SW8260B	1	0.62	2.0	ND		ug/L	07/20/17	22:08	BP	425531
1,2,4-Trichlorobenzene	SW8260B	1	0.93	2.0	ND		ug/L	07/20/17	22:08	BP	425531
Naphthalene	SW8260B	1	1.2	2.0	ND		ug/L	07/20/17	22:08	BP	425531
1,2,3-Trichlorobenzene	SW8260B	1	1.2	2.0	ND		ug/L	07/20/17	22:08	BP	425531
(S) Dibromofluoromethane	SW8260B		61.2 - 131		**131**		%	07/20/17	22:08	BP	425531
(S) Toluene-d8	SW8260B		75.1 - 127		**94.8**		%	07/20/17	22:08	BP	425531
(S) 4-Bromofluorobenzene	SW8260B		64.1 - 120		**94.5**		%	07/20/17	22:08	BP	425531

Torrent LABORATORY, INC.

MB Summary Report

Work Order:	1707125	**Prep Method:**	3510_OCP	**Prep Date:**	07/19/17	**Prep Batch:**	8257
Matrix:	Water	**Analytical Method:**	SW8081B	**Analyzed Date:**	7/20/2017	**Analytical Batch:**	425503
Units:	ug/L						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier
alpha-BHC	0.00065	0.020	ND	
gamma-BHC (Lindane)	0.0019	0.020	ND	
beta-BHC	0.0046	0.020	ND	
delta-BHC	0.0010	0.020	ND	
Heptachlor	0.010	0.020	ND	
Aldrin	0.00085	0.020	ND	
Heptachlor Epoxide	0.0031	0.020	ND	
gamma-Chlordane	0.0040	0.020	ND	
alpha-Chlordane	0.0035	0.020	ND	
4,4-DDE	0.0088	0.020	ND	
Endosulfan I	0.0060	0.020	ND	
Dieldrin	0.0031	0.020	ND	
Endrin	0.0034	0.020	ND	
4,4-DDD	0.0028	0.020	ND	
Endosulfan II	0.0021	0.020	ND	
4,4-DDT	0.0051	0.020	ND	
Endrin Aldehyde	0.014	0.020	ND	
Methoxychlor	0.0046	0.020	ND	
Endosulfan Sulfate	0.0027	0.020	ND	
Endrin Ketone	0.0080	0.020	ND	
Chlordane	0.13	0.25	ND	
Toxaphene	0.31	1.0	ND	
TCMX (S)			72.6	
DCBP (S)			51.6	

Work Order:	1707125	**Prep Method:**	6020S-P	**Prep Date:**	07/20/17	**Prep Batch:**	8276
Matrix:	Soil	**Analytical Method:**	6020A	**Analyzed Date:**	7/20/2017	**Analytical Batch:**	425519
Units:	mg/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier
Arsenic	0.21	1.0	ND	

Torrent LABORATORY, INC.

MB Summary Report

Work Order:	1707125	**Prep Method:**	5030VOC	**Prep Date:**	07/20/17	**Prep Batch:**	8314
Matrix:	Water	**Analytical Method:**	SW8260B	**Analyzed Date:**	7/20/2017	**Analytical Batch:**	425531
Units:	ug/L						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier
Dichlorodifluoromethane	0.26	0.50	ND	
Chloromethane	0.17	0.50	0.17	
Vinyl Chloride	0.21	0.50	ND	
Bromomethane	0.21	0.50	ND	
Chloroethane	0.11	0.50	ND	
Trichlorofluoromethane	0.19	0.50	ND	
1,1-Dichloroethene	0.14	0.50	ND	
Freon 113	0.34	0.50	ND	
Methylene Chloride	0.13	0.50	ND	
trans-1,2-Dichloroethene	0.16	0.50	ND	
MTBE	0.077	0.50	ND	
tert-Butanol	7.4	10	ND	
Diisopropyl ether (DIPE)	0.12	0.50	ND	
1,1-Dichloroethane	0.12	0.50	ND	
ETBE	0.064	0.50	ND	
cis-1,2-Dichloroethene	0.15	0.50	ND	
2,2-Dichloropropane	0.094	0.50	ND	
Bromochloromethane	0.15	0.50	ND	
Chloroform	0.12	0.50	ND	
Carbon Tetrachloride	0.16	0.50	ND	
1,1,1-Trichloroethane	0.16	0.50	ND	
1,1-Dichloropropene	0.19	0.50	ND	
Benzene	0.16	0.50	ND	
TAME	0.072	0.50	ND	
1,2-Dichloroethane	0.11	0.50	0.12	
Trichloroethylene	0.15	0.50	ND	
Dibromomethane	0.11	0.50	ND	
1,2-Dichloropropane	0.089	0.50	ND	
Bromodichloromethane	0.076	0.50	ND	
cis-1,3-Dichloropropene	0.078	0.50	ND	
Toluene	0.14	0.50	ND	
Tetrachloroethylene	0.24	0.50	ND	
trans-1,3-Dichloropropene	0.22	0.50	ND	
1,1,2-Trichloroethane	0.076	0.50	ND	
Dibromochloromethane	0.18	0.50	ND	
1,3-Dichloropropane	0.22	0.50	ND	
1,2-Dibromoethane	0.079	0.50	ND	
Chlorobenzene	0.16	0.50	ND	
Ethyl Benzene	0.20	0.50	ND	
1,1,1,2-Tetrachloroethane	0.087	0.50	ND	
m,p-Xylene	0.39	1.0	ND	

Torrent LABORATORY, INC.

MB Summary Report

Work Order:	1707125	**Prep Method:**	5030VOC	**Prep Date:**	07/20/17	**Prep Batch:**	8314
Matrix:	Water	**Analytical Method:**	SW8260B	**Analyzed Date:**	7/20/2017	**Analytical Batch:**	425531
Units:	ug/L						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier
o-Xylene	0.15	0.50	ND	
Styrene	0.11	0.50	ND	
Bromoform	0.076	0.50	ND	
Isopropyl Benzene	0.22	0.50	ND	
n-Propylbenzene	0.30	0.50	ND	
Bromobenzene	0.15	0.50	ND	
1,1,2,2-Tetrachloroethane	0.079	0.50	ND	
2-Chlorotoluene	0.25	0.50	ND	
1,3,5-Trimethylbenzene	0.24	0.50	ND	
1,2,3-Trichloropropane	0.15	0.50	ND	
4-Chlorotoluene	0.22	0.50	ND	
tert-Butylbenzene	0.26	0.50	ND	
1,2,4-Trimethylbenzene	0.23	0.50	ND	
sec-Butyl Benzene	0.30	0.50	ND	
p-Isopropyltoluene	0.27	0.50	ND	
1,3-Dichlorobenzene	0.17	0.50	ND	
1,4-Dichlorobenzene	0.18	0.50	ND	
n-Butylbenzene	0.27	0.50	ND	
1,2-Dichlorobenzene	0.16	0.50	ND	
1,2-Dibromo-3-Chloropropane	0.76	2.0	ND	
Hexachlorobutadiene	0.62	2.0	ND	
1,2,4-Trichlorobenzene	0.93	2.0	ND	
Naphthalene	1.2	2.0	ND	
1,2,3-Trichlorobenzene	1.2	2.0	ND	
(S) Dibromofluoromethane			118	
(S) Toluene-d8			91.4	
(S) 4-Bromofluorobenzene			91.6	

MB Summary Report

Work Order:	1707125	**Prep Method:**	6020S-P	**Prep Date:**	07/24/17	**Prep Batch:**	8367
Matrix:	Soil	**Analytical Method:**	6020A	**Analyzed Date:**	7/26/2017	**Analytical Batch:**	425652
Units:	mg/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier
Antimony	0.12	1.0	0.20	J
Arsenic	0.21	1.0	ND	
Barium	0.84	1.0	ND	
Beryllium	0.16	1.0	ND	
Cadmium	0.084	1.0	ND	
Chromium	0.097	1.0	0.11	J
Cobalt	0.21	1.0	ND	
Copper	0.17	2.5	ND	
Lead	0.054	1.0	ND	
Molybdenum	0.13	1.0	ND	
Nickel	1.2	5.0	ND	
Selenium	0.035	2.5	ND	
Silver	0.098	1.0	0.10	J
Thallium	1.00	5.0	ND	
Vanadium	0.28	25	ND	
Zinc	0.70	2.5	1.6	J

Work Order:	1707125	**Prep Method:**	7470AP	**Prep Date:**	07/24/17	**Prep Batch:**	8368
Matrix:	Water	**Analytical Method:**	SW7470A	**Analyzed Date:**	7/24/2017	**Analytical Batch:**	425630
Units:	mg/L						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier
Mercury	0.00013	0.00020	ND	

MB Summary Report

Work Order:	1707125	**Prep Method:**	3510_PCB	**Prep Date:**	07/24/17	**Prep Batch:**	8387
Matrix:	Water	**Analytical Method:**	SW8082A	**Analyzed Date:**	7/24/2017	**Analytical Batch:**	425620
Units:	ug/L						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier
Aroclor1016	0.70	10	ND	
Aroclor1221	5.6	10	ND	
Aroclor1232	1.2	10	ND	
Aroclor1242	3.8	10	ND	
Aroclor1248	5.5	10	ND	
Aroclor1254	0.20	10	ND	
Aroclor1260	0.50	10	ND	
TCMX (S)			112	
DCBP (S)			120	

MB Summary Report

Work Order:	1707125	**Prep Method:**	3546_OCP	**Prep Date:**	07/25/17	**Prep Batch:**	8412
Matrix:	Soil	**Analytical Method:**	SW8081B	**Analyzed Date:**	7/26/2017	**Analytical Batch:**	425687
Units:	ug/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier
alpha-BHC	0.13	2.0	ND	
gamma-BHC (Lindane)	0.16	2.0	ND	
beta-BHC	0.32	2.0	ND	
delta-BHC	0.16	2.0	ND	
Heptachlor	0.11	2.0	ND	
Aldrin	0.20	2.0	ND	
Heptachlor Epoxide	0.078	2.0	ND	
gamma-Chlordane	0.16	2.0	ND	
alpha-Chlordane	0.17	2.0	ND	
4,4-DDE	0.19	2.0	ND	
Endosulfan I	0.18	2.0	ND	
Dieldrin	0.15	2.0	ND	
Endrin	0.19	2.0	ND	
4,4-DDD	0.57	2.0	ND	
Endosulfan II	0.58	2.0	ND	
4,4-DDT	0.13	2.0	ND	
Endrin Aldehyde	0.15	2.0	ND	
Methoxychlor	0.20	2.0	ND	
Endosulfan Sulfate	0.12	2.0	ND	
Endrin Ketone	0.094	2.0	ND	
Chlordane	2.1	20	ND	
Toxaphene	8.5	50	ND	
TCMX (S)			85.8	
DCBP (S)			96.9	

MB Summary Report

Work Order:	1707125	**Prep Method:**	3546_OCP	**Prep Date:**	07/25/17	**Prep Batch:**	8421
Matrix:	Soil	**Analytical Method:**	SW8081B	**Analyzed Date:**	7/26/2017	**Analytical Batch:**	425673
Units:	ug/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier
alpha-BHC	0.13	2.0	ND	
gamma-BHC (Lindane)	0.16	2.0	ND	
beta-BHC	0.32	2.0	ND	
delta-BHC	0.16	2.0	ND	
Heptachlor	0.11	2.0	ND	
Aldrin	0.20	2.0	ND	
Heptachlor Epoxide	0.078	2.0	ND	
gamma-Chlordane	0.16	2.0	ND	
alpha-Chlordane	0.17	2.0	ND	
4,4-DDE	0.19	2.0	ND	
Endosulfan I	0.18	2.0	ND	
Dieldrin	0.15	2.0	ND	
Endrin	0.19	2.0	ND	
4,4-DDD	0.57	2.0	ND	
Endosulfan II	0.58	2.0	ND	
4,4-DDT	0.13	2.0	ND	
Endrin Aldehyde	0.15	2.0	ND	
Methoxychlor	0.20	2.0	ND	
Endosulfan Sulfate	0.12	2.0	ND	
Endrin Ketone	0.094	2.0	ND	
Chlordane	2.1	20	ND	
Toxaphene	8.5	50	ND	
TCMX (S)			85.6	
DCBP (S)			99.5	

MB Summary Report

Work Order:	1707125	**Prep Method:**	3546_PCB	**Prep Date:**	07/25/17	**Prep Batch:**	8423
Matrix:	Soil	**Analytical Method:**	SW8082A	**Analyzed Date:**	7/26/2017	**Analytical Batch:**	425624
Units:	ug/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier
Aroclor1016	53	100	ND	
Aroclor1221	5.0	100	ND	
Aroclor1232	17	100	ND	
Aroclor1242	3.0	100	ND	
Aroclor1248	2.0	100	ND	
Aroclor1254	2.0	100	ND	
Aroclor1260	36	100	ND	
TCMX (S)			88.0	
DCBP (S)			101	

Work Order:	1707125	**Prep Method:**	6020W-P	**Prep Date:**	07/24/17	**Prep Batch:**	8424
Matrix:	Water	**Analytical Method:**	SW6020A	**Analyzed Date:**	7/26/2017	**Analytical Batch:**	425651
Units:	ug/L						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier
Antimony	0.019	0.50	0.047	
Arsenic	0.19	0.50	ND	
Barium	0.066	0.50	0.38	
Beryllium	0.018	0.50	ND	
Cadmium	0.033	0.50	ND	
Chromium	0.044	0.50	0.092	
Cobalt	0.026	0.50	ND	
Copper	0.64	2.0	ND	
Lead	0.031	0.50	0.057	
Molybdenum	0.018	0.50	0.033	
Nickel	0.30	1.0	ND	
Selenium	0.034	0.50	ND	
Silver	0.012	0.50	0.021	
Thallium	0.0040	0.50	0.025	
Vanadium	0.020	0.50	ND	
Zinc	0.59	2.0	ND	

Torrent LABORATORY, INC.

MB Summary Report

Work Order:	1707125	**Prep Method:**	% Water-P	**Prep Date:**	07/24/17	**Prep Batch:**	8441
Matrix:	Soil	**Analytical Method:**	ASTM D2216-90	**Analyzed Date:**	7/24/2017	**Analytical Batch:**	425654
Units:	mg/L						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier
% Moisture	0.050	0.050	ND	

Work Order:	1707125	**Prep Method:**	7471BP	**Prep Date:**	07/25/17	**Prep Batch:**	8445
Matrix:	Soil	**Analytical Method:**	SW7471B	**Analyzed Date:**	7/26/2017	**Analytical Batch:**	425666
Units:	mg/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier
Mercury	0.083	0.50	ND	

Work Order:	1707125	**Prep Method:**	% Water-P	**Prep Date:**	07/25/17	**Prep Batch:**	8447
Matrix:	Soil	**Analytical Method:**	ASTM D2216-90	**Analyzed Date:**	7/25/2017	**Analytical Batch:**	425660
Units:	%						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier
% Moisture	0.050	0.050	ND	

Torrent LABORATORY, INC.

LCS/LCSD Summary Report

Raw values are used in quality control assessment.

Work Order:	1707125	**Prep Method:**	3510_OCP	**Prep Date:**	07/19/17	**Prep Batch:**	8257
Matrix:	Water	**Analytical Method:**	SW8081B	**Analyzed Date:**	7/20/2017	**Analytical Batch:**	425503
Units:	ug/L						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
gamma-BHC (Lindane)	0.0019	0.020	ND	0.200	75.2	81.2	7.69	25 - 135	30	
gamma-BHC (Lindane)	0.010	0.020	ND	0.200	69.6	78.4	12.2	40 - 130	30	
Aldrin	0.00085	0.020	ND	0.200	67.2	74.7	10.6	25 - 140	30	
Dieldrin	0.031	0.020	ND	0.200	84.9	84.6	0.590	60 - 130	30	
Endrin	0.0034	0.020	ND	0.200	91.8	90.2	2.20	55 - 135	30	
4,4-DDT	0.0051	0.020	ND	0.200	96.3	93.4	3.16	45 - 140	30	
TCMX (S)				100	57.6	69.7		35 - 105		
DCBP (S)				100	61.4	54.9		44 - 101		

Work Order:	1707125	**Prep Method:**	6020S-P	**Prep Date:**	07/20/17	**Prep Batch:**	8276
Matrix:	Soil	**Analytical Method:**	6020A	**Analyzed Date:**	7/20/2017	**Analytical Batch:**	425519
Units:	mg/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
Arsenic	0.21	1.0	ND	25	90.4	98.9	8.88	80 - 120	30	

Work Order:	1707125	**Prep Method:**	5030VOC	**Prep Date:**	07/20/17	**Prep Batch:**	8314
Matrix:	Water	**Analytical Method:**	SW8260B	**Analyzed Date:**	7/20/2017	**Analytical Batch:**	425531
Units:	ug/L						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
1,1-Dichloroethene	0.14	0.50	ND	17.9	107	107	0.000	61.4 - 129	30	
Benzene	0.16	0.50	0.17	17.9	102	109	6.90	66.9 - 140	30	
Trichloroethylene	0.15	0.50	ND	17.9	99.5	100	0.560	69.3 - 144	30	
Toluene	0.14	0.50	ND	17.9	95.6	102	6.23	76.6 - 123	30	
Chlorobenzene	0.16	0.50	ND	17.9	94.6	99.3	4.62	73.9 - 137	30	
(S) Dibromofluoromethane				17.9	112	113		61.2 - 131		
(S) Toluene-d8				17.9	101	106		75.1 - 127		
(S) 4-Bromofluorobenzene				17.9	96.5	100		64.1 - 120		

Torrent LABORATORY, INC.

LCS/LCSD Summary Report

Raw values are used in quality control assessment.

Work Order:	1707125	**Prep Method:**	6020S-P	**Prep Date:**	07/24/17	**Prep Batch:**	8367
Matrix:	Soil	**Analytical Method:**	6020A	**Analyzed Date:**	7/26/2017	**Analytical Batch:**	425652
Units:	mg/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
Antimony	0.12	1.0	0.20	25	91.1	90.8	0.440	80 - 120	30	
Arsenic	0.21	1.0	ND	25	112	113	0.355	80 - 120	30	
Barium	0.84	1.0	ND	25	91.9	91.7	0.436	80 - 120	30	
Beryllium	0.16	1.0	ND	25	93.5	93.7	0.000	80 - 120	30	
Cadmium	0.084	1.0	ND	25	97.0	96.6	0.412	80 - 120	30	
Chromium	0.097	1.0	0.11	25	107	107	0.374	80 - 120	30	
Cobalt	0.21	1.0	ND	25	97.4	98.1	0.409	80 - 120	30	
Copper	0.17	2.5	ND	25	97.5	98.4	0.816	80 - 120	30	
Lead	0.054	1.0	ND	25	106	107	0.752	80 - 120	30	
Molybdenum	0.13	1.0	ND	25	99.9	99.4	0.401	80 - 120	30	
Nickel	1.2	5.0	ND	25	97.3	98.1	0.820	80 - 120	30	
Selenium	0.035	2.5	ND	25	98.1	97.3	0.820	80 - 120	30	
Silver	0.098	1.0	0.10	25	98.1	98.2	0.000	80 - 120	30	
Thallium	1.00	5.0	ND	25	108	109	1.11	80 - 120	30	
Vanadium	0.28	25	ND	25	96.8	97.3	0.412	80 - 120	30	
Zinc	0.70	2.5	1.6	25	101	101	0.000	80 - 120	30	

Work Order:	1707125	**Prep Method:**	7470AP	**Prep Date:**	07/24/17	**Prep Batch:**	8368
Matrix:	Water	**Analytical Method:**	SW7470A	**Analyzed Date:**	7/24/2017	**Analytical Batch:**	425630
Units:	mg/L						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
Mercury	0.00013	0.00020	ND	0.015	94.3	82.2	13.6	80 - 120	20	

Work Order:	1707125	**Prep Method:**	3510_PCB	**Prep Date:**	07/24/17	**Prep Batch:**	8387
Matrix:	Water	**Analytical Method:**	SW8082A	**Analyzed Date:**	7/24/2017	**Analytical Batch:**	425620
Units:	ug/L						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
Aroclor1016	0.70	10	ND	50	119	117	1.87	25 - 145	30	
Aroclor1260	0.50	10	ND	50	111	111	0.180	30 - 145	30	
TCMX (S)				50	112	110		70 - 125		
DCBP (S)				50	120	118		30 - 135		

Torrent LABORATORY, INC.

LCS/LCSD Summary Report

Raw values are used in quality control assessment.

Work Order:	1707125	**Prep Method:**	3546_OCP	**Prep Date:**	07/25/17	**Prep Batch:**	8412
Matrix:	Soil	**Analytical Method:**	SW8081B	**Analyzed Date:**	7/26/2017	**Analytical Batch:**	425687
Units:	ug/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
gamma-BHC (Lindane)	0.16	2.0	ND	40	75.4	75.0	0.333	25 - 135	30	
Heptachlor	0.11	2.0	ND	40	73.1	73.2	0.000	40 - 130	30	
Aldrin	0.20	2.0	ND	40	74.6	74.0	0.673	25 - 140	30	
Dieldrin	0.15	2.0	ND	40	71.6	70.7	1.40	60 - 130	30	
Endrin	0.19	2.0	ND	40	73.2	71.9	1.72	55 - 135	30	
4,4-DDT	0.13	2.0	ND	40	74.8	72.0	3.75	45 - 140	30	
TCMX (S)				100	85.5	84.2		48 - 125		
DCBP (S)				100	98.5	96.0		38 - 135		

Work Order:	1707125	**Prep Method:**	3546_OCP	**Prep Date:**	07/25/17	**Prep Batch:**	8421
Matrix:	Soil	**Analytical Method:**	SW8081B	**Analyzed Date:**	7/26/2017	**Analytical Batch:**	425673
Units:	ug/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
gamma-BHC (Lindane)	0.16	2.0	ND	40	77.9	74.8	4.26	25 - 135	30	
Heptachlor	0.11	2.0	ND	40	77.0	73.7	4.31	40 - 130	30	
Aldrin	0.20	2.0	ND	40	77.0	74.0	3.97	25 - 140	30	
Dieldrin	0.15	2.0	ND	40	73.2	70.7	3.47	60 - 130	30	
Endrin	0.19	2.0	ND	40	74.5	72.8	2.38	55 - 135	30	
4,4-DDT	0.13	2.0	ND	40	80.2	80.1	0.312	45 - 140	30	
TCMX (S)				100	92.9	86.4		48 - 125		
DCBP (S)				100	101	100		38 - 135		

Work Order:	1707125	**Prep Method:**	3546_PCB	**Prep Date:**	07/25/17	**Prep Batch:**	8423
Matrix:	Soil	**Analytical Method:**	SW8082A	**Analyzed Date:**	7/26/2017	**Analytical Batch:**	425624
Units:	ug/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
Aroclor1016	53	100	ND	600	104	93.3	11.0	25 - 145	30	
Aroclor1260	36	100	ND	600	114	102	11.3	30 - 145	30	
TCMX (S)				0.10	96.0	87.0		48 - 125		
DCBP (S)				0.10	131	129		48 - 135		

Torrent LABORATORY, INC.

LCS/LCSD Summary Report

Raw values are used in quality control assessment.

Work Order:	1707125	**Prep Method:**	6020W-P	**Prep Date:**	07/24/17	**Prep Batch:**	8424
Matrix:	Water	**Analytical Method:**	SW6020A	**Analyzed Date:**	7/26/2017	**Analytical Batch:**	425651
Units:	ug/L						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
Antimony	0.019	0.50	0.047	50	103	102	0.783	80 - 120	20	
Arsenic	0.19	0.50	ND	50	101	101	0.593	80 - 120	20	
Barium	0.066	0.50	0.38	50	110	103	6.78	80 - 120	20	
Beryllium	0.018	0.50	ND	50	104	104	0.192	80 - 120	20	
Cadmium	0.033	0.50	ND	50	109	108	0.925	80 - 120	20	
Chromium	0.044	0.50	0.092	50	115	112	2.82	80 - 120	20	
Cobalt	0.026	0.50	ND	50	107	105	2.08	80 - 120	20	
Copper	0.64	2.0	ND	50	104	102	2.13	80 - 120	20	
Lead	0.031	0.50	0.057	50	115	112	2.47	80 - 120	20	
Molybdenum	0.018	0.50	0.033	50	109	107	2.04	80 - 120	20	
Nickel	0.30	1.0	ND	50	107	105	2.26	80 - 120	20	
Selenium	0.034	0.50	ND	50	107	105	1.32	80 - 120	20	
Silver	0.012	0.50	0.021	50	103	103	0.388	80 - 120	20	
Thallium	0.0040	0.50	0.025	50	114	112	1.24	80 - 120	20	
Vanadium	0.020	0.50	ND	50	106	104	1.71	80 - 120	20	
Zinc	0.59	2.0	ND	50	113	112	1.25	80 - 120	20	

Work Order:	1707125	**Prep Method:**	7471BP	**Prep Date:**	07/25/17	**Prep Batch:**	8445
Matrix:	Soil	**Analytical Method:**	SW7471B	**Analyzed Date:**	7/26/2017	**Analytical Batch:**	425666
Units:	mg/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
Mercury	0.047	0.50	ND	1.25	95.3	102	6.50	80 - 120	30	

Torrent LABORATORY, INC.

MS/MSD Summary Report

Raw values are used in quality control assessment.

Work Order:	1707125	**Prep Method:**	6020S-P	**Prep Date:**	07/24/17	**Prep Batch:**	8367
Matrix:	**Soil**	**Analytical Method:**	6020A	**Analyzed Date:**	July 26	**Analytical Batch:**	425652
Spiked Sample:	1707125-001A						
Units:	mg/Kg						

Parameters	MDL	PQL	Sample Conc.	Spike Conc.	MS % Recovery	MSD % Recovery	MS/MSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
Antimony	0.12	1.0	ND	25	87.6	92.9	6.06	30.7 - 130	33	
Arsenic	0.21	1.0	10.7	25	110	111	0.261	71.0 - 121	33	
Barium	0.84	1.0	83.0	25	108	109	0.000	70.2 - 130	33	
Beryllium	0.16	1.0	ND	25	76.4	75.9	0.519	73.3 - 125	33	
Cadmium	0.084	1.0	ND	25	100	100	0.000	88.7 - 110	33	
Chromium	0.097	1.0	42.8	25	111	103	3.02	76.0 - 116	33	
Cobalt	0.21	1.0	8.72	25	88.5	89.3	0.969	57.4 - 122	33	
Copper	0.17	2.5	33.1	25	84.2	81.6	1.30	74.8 - 119	33	
Lead	0.054	1.0	41.0	25	105	98.9	2.26	57.9 - 118	33	
Molybdenum	0.13	1.0	ND	25	101	105	3.82	62.9 - 123	33	
Nickel	1.2	5.0	18.2	25	88.3	87.6	0.498	61.5 - 122	33	
Selenium	0.035	2.5	ND	25	94.2	95.8	1.69	62.0 - 111	33	
Silver	0.098	1.0	ND	25	95.0	96.2	1.25	81.1 - 109	33	
Thallium	1.00	5.0	ND	25	93.6	95.0	1.26	39.2 - 125	33	
Vanadium	0.28	25	42.8	25	92.9	93.9	0.454	65.8 - 122	33	
Zinc	0.70	2.5	92.8	25	106	119	3.31	59.9 - 122	33	

Work Order:	1707125	**Prep Method:**	3510_PCB	**Prep Date:**	07/24/17	**Prep Batch:**	8387
Matrix:	**Water**	**Analytical Method:**	SW8082A	**Analyzed Date:**	7/25/2017	**Analytical Batch:**	425620
Spiked Sample:	1707125-021B						
Units:	ug/L						

Parameters	MDL	PQL	Sample Conc.	Spike Conc.	MS % Recovery	MSD % Recovery	MS/MSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
Aroclor1016	0.700	10.0	ND	50	78.6	79.4	1.01	25 - 145	30	
Aroclor1260	0.500	10.0	ND	50	64.8	68.2	5.11	30 - 145	30	
TCMX (S)				50	88.0	84.0		70 - 125		
DCBP (S)				50	96.0	90.0		30 - 135		

Torrent LABORATORY, INC.

MS/MSD Summary Report

Raw values are used in quality control assessment.

Work Order:	1707125	**Prep Method:**	3546_PCB	**Prep Date:**	07/25/17	**Prep Batch:**	8423
Matrix:	**Soil**	**Analytical Method:**	SW8082A	**Analyzed Date:**	7/26/2017	**Analytical Batch:**	425624
Spiked Sample:	1707125-001A						
Units:	ug/Kg						

Parameters	MDL	PQL	Sample Conc.	Spike Conc.	MS % Recovery	MSD % Recovery	MS/MSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
Aroclor1016	53.0	100	ND	600	86.0	86.0	0.000	25 - 145	30	
Aroclor1260	36.0	100	ND	600	77.8	90.5	14.2	30 - 145	30	
TCMX (S)				0.10	89.0	90.0		48 - 125		
DCBP (S)				0.10	133	133		48 - 135		

Work Order:	1707125	**Prep Method:**	6020W-P	**Prep Date:**	07/24/17	**Prep Batch:**	8424
Matrix:	**Water**	**Analytical Method:**	SW6020A	**Analyzed Date:**	July 26	**Analytical Batch:**	425651
Spiked Sample:	1707125-021A						
Units:	ug/L						

Parameters	MDL	PQL	Sample Conc.	Spike Conc.	MS % Recovery	MSD % Recovery	MS/MSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
Antimony	0.019	0.50	ND	50	96.3	95.3	1.04	75 - 125	20	
Arsenic	0.19	0.50	ND	50	97.4	100	3.02	75 - 125	20	
Barium	0.066	0.50	2.30	50	101	99.3	1.53	75 - 125	20	
Beryllium	0.018	0.50	ND	50	94.2	93.9	0.213	75 - 125	20	
Cadmium	0.033	0.50	ND	50	99.3	98.8	0.403	75 - 125	20	
Chromium	0.044	0.50	2.20	50	111	111	0.693	75 - 125	20	
Cobalt	0.026	0.50	ND	50	103	102	0.194	75 - 125	20	
Copper	0.64	2.0	ND	50	96.9	97.0	0.202	75 - 125	20	
Lead	0.031	0.50	ND	50	111	110	1.44	75 - 125	20	
Molybdenum	0.018	0.50	1.00	50	107	107	0.551	75 - 125	20	
Nickel	0.30	1.0	1.60	50	102	101	0.574	75 - 125	20	
Selenium	0.034	0.50	ND	50	89.1	88.9	0.224	75 - 125	20	
Silver	0.012	0.50	ND	50	100	100	0.199	75 - 125	20	
Thallium	0.0040	0.50	ND	50	111	111	0.180	75 - 125	20	
Vanadium	0.020	0.50	ND	50	104	105	0.581	75 - 125	20	
Zinc	0.59	2.0	9.70	50	94.5	95.8	1.05	75 - 125	20	

MS/MSD Summary Report

Raw values are used in quality control assessment.

Work Order:	1707125	**Prep Method:**	7471BP	**Prep Date:**	07/25/17	**Prep Batch:**	8445
Matrix:	**Soil**	**Analytical Method:**	SW7471B	**Analyzed Date:**	7/26/2017	**Analytical Batch:**	425666
Spiked Sample:	1707125-001A						
Units:	mg/Kg						

Parameters	MDL	PQL	Sample Conc.	Spike Conc.	MS % Recovery	MSD % Recovery	MS/MSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
Mercury	0.047	0.50	ND	1.25	97.0	94.4	3.28	75 - 125	30	

Duplicate QC Summary Report

Work Order:	1707125	**Prep Method:**	% Water-P	**Prep Date:**	7/24/2017	**Prep Batch:**	8441
Matrix:		**Analytical Method:**	ASTM D2216-90	**Analyzed Date:**	07/24/17	**Analytical Batch:**	425654
Units:						**Lab Sample ID:**	1707125-001A-DUP-8441

Parameters	MDL	PQL	Sample Result	Duplicate Result	% RPD
% Moisture	0.050	0.0500	16.7	17.2	2.95

Work Order:	1707125	**Prep Method:**	% Water-P	**Prep Date:**	7/25/2017	**Prep Batch:**	8447
Matrix:		**Analytical Method:**	ASTM D2216-90	**Analyzed Date:**	07/25/17	**Analytical Batch:**	425660
Units:						**Lab Sample ID:**	1707125-008A-DUP-8447

Parameters	MDL	PQL	Sample Result	Duplicate Result	% RPD
% Moisture	0.050	0.0500	26.0	27.7	6.33

Work Order:	1707125	**Prep Method:**	% Water-P	**Prep Date:**	7/25/2017	**Prep Batch:**	8447
Matrix:		**Analytical Method:**	ASTM D2216-90	**Analyzed Date:**	07/25/17	**Analytical Batch:**	425660
Units:						**Lab Sample ID:**	1707125-017A-DUP-8447

Parameters	MDL	PQL	Sample Result	Duplicate Result	% RPD
% Moisture	0.050	0.0500	22.7	22.7	0.00

Work Order:	1707125	**Prep Method:**	6020S-P	**Prep Date:**	7/20/2017	**Prep Batch:**	8276
Matrix:		**Analytical Method:**	6020A	**Analyzed Date:**	07/20/17	**Analytical Batch:**	425519
Units:						**Lab Sample ID:**	1707125-020A-DUP-8276

Parameters	MDL	PQL	Sample Result	Duplicate Result	% RPD
Arsenic	0.21	1.0	4.55	3.47	27.00

Laboratory Qualifiers and Definitions

DEFINITIONS:

Accuracy/Bias (% Recovery) - The closeness of agreement between an observed value and an accepted reference value.
Blank (Method/Preparation Blank) -MB/PB - An analyte-free matrix to which all reagents are added in the same volumes/proportions as used in sample processing. The method blank is used to document contamination resulting from the analytical process.
Duplicate - a field sample and/or laboratory QC sample prepared in duplicate following all of the same processes and procedures used on the original sample (sample duplicate, LCSD, MSD)
Laboratory Control Sample (LCS ad LCSD) - A known matrix spiked with compounds representative of the target analyte(s). This is used to document laboratory performance.
Matrix - the component or substrate that contains the analyte of interest (e.g., - groundwater, sediment, soil, waste water, etc)
Matrix Spike (MS/MSD) - Client sample spiked with identical concentrations of target analyte (s). The spiking occurs prior to the sample preparation and analysis. They are used to document the precision and bias of a method in a given sample matrix.
Method Detection Limit (MDL) - the minimum concentration of a substance that can be measured and reported with a 99% confidence that the analyte concentration is greater than zero
Practical Quantitation Limit/Reporting Limit/Limit of Quantitation (PQL/RL/LOQ) - a laboratory determined value at 2 to 5 times above the MDL that can be reproduced in a manner that results in a 99% confidence level that the result is both accurate and precise. PQLs/RLs/LODs reflect all preparation factors and/or dilution factors that have been applied to the sample during the preparation and/or analytical processes.
Precision (%RPD) - The agreement among a set of replicate/duplicate measurements without regard to known value of the replicates
Surrogate (S) or (Surr) - An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. Surrogates are used in most organic analysis to demonstrate matrix compatibility with the chosen method of analysis
Tentatively Identified Compound (TIC) - A compound not contained within the analytical calibration standards but present in the GCMS library of defined compounds. When the library is searched for an unknown compound, it can frequently give a tentative identification to the compound based on retention time and primary and secondary ion match. TICs are reported as estimates and are candidates for further investigation.
Units: the unit of measure used to express the reported result - **mg/L** and ***mg/Kg*** (equivalent to PPM - parts per million in **liquid** and ***solid***), **ug/L** and ***ug/Kg*** (equivalent to PPB - parts per billion in **liquid** and ***solid***), **ug/m3**, ***mg/m3***, **ppbv** and ***ppmv*** (all units of measure for reporting concentrations in air), **%** (equivalent to 10000 ppm or 1,000,000 ppb), **ug/Wipe** (concentration found on the surface of a single Wipe usually taken over a 100cm2 surface)

LABORATORY QUALIFIERS:

B - Indicates when the analyte is found in the associated method or preparation blank
D - Surrogate is not recoverable due to the necessary dilution of the sample
E - Indicates the reportable value is outside of the calibration range of the instrument but within the linear range of the instrument (unless otherwise noted) Values reported with an E qualifier should be considered as estimated.
H- Indicates that the recommended holding time for the analyte or compound has been exceeded
J- Indicates a value between the method MDL and PQL and that the reported concentration should be considered as estimated rather the quantitative
NA - Not Analyzed
N/A - Not Applicable
ND - Not Detected at a concentration greater than the PQL/RL or, if reported to the MDL, at greater than the MDL.
NR - Not recoverable - a matrix spike concentration is not recoverable due to a concentration within the original sample that is greater than four times the spike concentration added
R- The % RPD between a duplicate set of samples is outside of the absolute values established by laboratory control charts
S- Spike recovery is outside of established method and/or laboratory control limits. Further explanation of the use of this qualifier should be included within a case narrative
X -Used to indicate that a value based on pattern identification is within the pattern range but not typical of the pattern found in standards. Further explanation may or may not be provided within the sample footnote and/or the case narrative.

Sample Receipt Checklist

Client Name: Cornerstone(Walnut Creek)

Project Name: 3141 Taylor Road

Work Order No.: 1707125

Date and Time Received: 7/19/2017 1:35:00PM

Received By: Helena Ueng

Physically Logged By: Helena Ueng

Checklist Completed By:

Carrier Name: First Courier

Chain of Custody (COC) Information

Chain of custody present?	Yes
Chain of custody signed when relinquished and received?	Yes
Chain of custody agrees with sample labels?	Yes
Custody seals intact on sample bottles?	Not Present

Sample Receipt Information

Custody seals intact on shipping container/cooler?	Not Present
Shipping Container/Cooler In Good Condition?	Yes
Samples in proper container/bottle?	Yes
Samples containers intact?	Yes
Sufficient sample volume for indicated test?	Yes

Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes			
Container/Temp Blank temperature in compliance?	Yes	Temperature:	1.0	°C
Water-VOA vials have zero headspace?	No VOA vials submitted			
Water-pH acceptable upon receipt?				

pH Checked by: Helena Ueng

pH Adjusted by: N/A

Comments:

Login Summary Report

Client ID:	TL5508	Cornerstone(Walnut Creek)	**QC Level:**	II
Project Name:	3141 Taylor Road		**TAT Requested:**	5+ day:5
Project # :	411-16-3		**Date Received:**	7/19/2017
Report Due Date:	7/26/2017		**Time Received:**	1:35 pm

Comments:

Work Order # : ***1707125***

WO Sample ID	Client Sample ID	Collection Date/Time	Matrix	Scheduled Disposal	Sample On Hold	Test On Hold	Requested Tests	Subbed
1707125-001A	SS-41 (0-0.5)	07/18/17 13:24	Soil	01/15/18			PMOIST PCBs_S_8082A Pest_S_8081OCP Hg_S_7471B Met_S_6020CAM17	
Sample Note:	Metals by 6020, need to be reported to the MDL to meet RL of 0.5 mg/kg. PCBs need RL of 50 ppb. OCPs--need RLs of 2 ppb (40 ppb for Chlordane). Avoid diluting.							
1707125-002A	SS-42 (0-0.5)	07/18/17 14:00	Soil	01/15/18			PMOIST PCBs_S_8082A Pest_S_8081OCP Hg_S_7471B Met_S_6020CAM17	
1707125-003A	SS-43 (0-0.5)	07/18/17 12:21	Soil	01/15/18			PMOIST Pest_S_8081OCP Hg_S_7471B Met_S_6020CAM17	
1707125-004A	SS-44 (0-0.5)	07/18/17 12:41	Soil	01/15/18			PMOIST Pest_S_8081OCP Hg_S_7471B Met_S_6020CAM17	
1707125-005A	SS-45 (0-0.5)	07/18/17 11:32	Soil	01/15/18			PMOIST Pest_S_8081OCP Hg_S_7471B Met_S_6020CAM17	
1707125-006A	SS-46 (0-0.5)	07/18/17 11:18	Soil	01/15/18			PMOIST Pest_S_8081OCP Hg_S_7471B Met_S_6020CAM17	
1707125-007A	SS-47 (0-0.5)	07/18/17 14:35	Soil	01/15/18			PMOIST	

Login Summary Report

Client ID: TL5508 Cornerstone(Walnut Creek)
Project Name: 3141 Taylor Road
Project # : 411-16-3
Report Due Date: 7/26/2017

QC Level: II
TAT Requested: 5+ day:5
Date Received: 7/19/2017
Time Received: 1:35 pm

Comments:

Work Order # : ***1707125***

WO Sample ID	Client Sample ID	Collection Date/Time	Matrix	Scheduled Disposal	Sample On Hold	Test On Hold	Requested Tests	Subbed
1707125-008A	SS-48 (0-0.5)	07/18/17 14:43	Soil	01/15/18			Pest_S_8081OCP Hg_S_7471B Met_S_6020CAM17 PMOIST	
1707125-009A	SS-49 (0-0.5)	07/18/17 14:50	Soil	01/15/18			Pest_S_8081OCP Hg_S_7471B Met_S_6020CAM17 PMOIST	
1707125-010A	SS-50 (0-0.5)	07/18/17 15:56	Soil	01/15/18			Pest_S_8081OCP Hg_S_7471B Met_S_6020CAM17 PMOIST	
1707125-011A	SS-50 (1-1.5)	07/18/17 16:00	Soil	01/15/18			PCBs_S_8082A PMOIST	
1707125-012A	SS-50 (2-3)	07/18/17 16:05	Soil	01/15/18			PCBs_S_8082A PMOIST	
1707125-013A	SS-12A (0-0.5)	07/18/17 9:38	Soil	01/15/18			PCBs_S_8082A PMOIST	
Sample Note:	6020-Arsenic only						Met_S_6020AsPb	
1707125-014A	SS-12B (0-0.5)	07/18/17 9:45	Soil	01/15/18			PMOIST Met_S_6020AsPb	
1707125-015A	SS-12C (0-0.5)	07/18/17 9:49	Soil	01/15/18			PMOIST Met_S_6020AsPb	
1707125-016A	SS-12D (0-0.5)	07/18/17 9:54	Soil	01/15/18			PMOIST Met_S_6020AsPb	
1707125-017A	BG-1 (0.5-1)	07/18/17 8:48	Soil	01/15/18			PMOIST Met_S_6020AsPb PMOIST	

Login Summary Report

Client ID:	TL5508	Cornerstone(Walnut Creek)	**QC Level:**	II
Project Name:	3141 Taylor Road		**TAT Requested:**	5+ day:5
Project # :	411-16-3		**Date Received:**	7/19/2017
Report Due Date:	7/26/2017		**Time Received:**	1:35 pm

Comments:

Work Order # : ***1707125***

WO Sample ID	Client Sample ID	Collection Date/Time	Matrix	Scheduled Disposal	Sample On Hold	Test On Hold	Requested Tests	Subbed
1707125-018A	BG-2 (0.5-1)	07/18/17 8:43	Soil	01/15/18			Met_S_6020AsPb PMOIST	
1707125-019A	BG-3 (0.5-1)	07/18/17 10:20	Soil	01/15/18			Met_S_6020AsPb PMOIST	
1707125-020A	BG-4 (0.5-1)	07/18/17 10:25	Soil	01/15/18			Met_S_6020AsPb PMOIST	
1707125-021A	EqB-1	07/18/17 8:31	Water	09/02/17			Met_S_6020AsPb Hg_W_7470A Met_W_6020A	
Sample Note:	6020/7470- CAM17							
1707125-021B	EqB-1	07/18/17 8:31	Water	09/02/17			PCBs_W_8082A Pest_W_8081OCP	
1707125-022A	Trip Blank	07/18/17 8:31	Water	09/02/17			VOC_W_8260B	

Torrent LABORATORY, INC.

CORNERSTONE EARTH GROUP

Chain of Custody Record

1707125

Cornerstone Earth Group, Inc.	Project Manager: Peter Langtry	Site Sampler: BMJ / KAK	Date: 07-18-17
	Tel/Fax: 925-988-9500 ext. 217	Lab Contact: Kathie Evans	Lab: Torrent Laboratory, Inc.
1270 Springbrook Rd	Analysis Turnaround Time		
Walnut Creek, CA 94597			
(925)-988-9500 Phone	TAT if different from Below _____		
(925)-988-9501 FAX	☐ 1 week		
Project Name: 3141 Taylor Rd	■ 3 days		
Site: Loomis, CA	☐ 2 days		
Project Number: 411-16-3	☐ 1 day		

COC No: 5 of 6 COCs

Laboratory's Job No.

	Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample	Arsenic (EPA 6020)	CAM17 (EPA 6020)	OCPs (EPA 8081)	PCBs (EPA 8082)	HOLD	Laboratory's Sample Specific Notes:
001A	SS-41 (0-0.5)	7/18/17	1324	Liner	soil	1			X	X	X		
002A	SS-42 (0-0.5)		1400						X	X	X		
003A	SS-43 (0-0.5)		1221						X	X			
004A	SS-44 (0-0.5)		1241						X	X			
005A	SS-45 (0-0.5)		1132						X	X			
006A	SS-46 (0-0.5)		1118						X	X			
007A	SS-47 (0-0.5)		1435						X	X			
008A ~~009A~~	SS-48 (0-0.5)		1443						X	X			
009A ~~10A~~	SS-49 (0-0.5)		1450						X	X			
010A ~~011A~~	SS-50 (0-0.5)		1550								X		
011A ~~12A~~	SS-50 (1-1.5)		1600								X		
012A	SS-50 (2-3)	—	1605	—	—	—					X		

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification

☐ Non-Hazardous ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown

Sample Disposal

☐ Return to Client ☐ Disposal by Lab ☐ Archive For _____ Months

Special Instructions/QC Requirements & Comments: If additional sample is needed, please use the liner.
Please CC: Brent Johnson, bjohnson@cornerstoneearth.com, with results

Please report all soil analyes on dry weight basis

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
[signature]	Cornerstone Earth Group	7/19/17 11:00	[signature]	1st CLASS	7/19 11:30
[signature]	1st CLASS	7/19/17	[signature] 1:35	Torrent	7/19/17 1:35

FCS Temp = 1°C #1

Torrent LABORATORY, INC.

CORNERSTONE EARTH GROUP

Chain of Custody Record

1707125

Cornerstone Earth Group, Inc.	Project Manager: Peter Langtry	Site Sampler: BMJ / KAK	Date: 07-18-17
	Tel/Fax: 925-988-9500 ext. 217	Lab Contact: Kathie Evans	Lab: Torrent Laboratory, Inc.
1270 Springbrook Rd	Analysis Turnaround Time		
Walnut Creek, CA 94597			
(925)-988-9500 Phone	TAT if different from Below _____		
(925)-988-9501 FAX	☐ 1 week		
Project Name: 3141 Taylor Rd	■ 3 days		
Site: Loomis, CA	☐ 2 days		
Project Number: 411-16-3	☐ 1 day		

COC No: 6 of 6 COCs

Laboratory's Job No.

	Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample	Arsenic (EPA 6020)	CAM17 (EPA 6020)	OCPs (EPA 8081)	PCBs (EPA 8082)	VOC (EPA 8260B)	HOLD	Laboratory's Sample Specific Notes:
013A	SS-12A (0-0.5)	7/18/17	0938	Liner	soil	1		X						
014A	SS-12B (0-0.5)		0945					X						
015A	SS-12C (0-0.5)		0949					X						
016A	SS-12D (0-0.5)		0954					X						
017A	BG-1 (0.5-1)	7/18/17	0848	Liner	soil	1		X						
018A	BG-2 (0.5-1)		0843					X						
019A	BG-3 (0.5-1)		1020					X						
020A	BG-4 (0.5-1)		1025					X						
021A	EqB-1	7/18/17	8:31	Bottles	water	3			X	X	X			
022A	Trip Blank			Bottles								X		

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other 1,2,3,4

Possible Hazard Identification

☐ Non-Hazardous ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown

Sample Disposal

☐ Return to Client ☐ Disposal by Lab ☐ Archive For _____ Months

Special Instructions/QC Requirements & Comments: If additional sample is needed, please use the liner.

Please CC: Brent Johnson, bjohnson@cornerstoneearth.com, with results

Please report all soil analyses on dry weight basis

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
[signature]	Cornerstone Earth Group	7/19/17 11:30	[signature]	1st Class	7/19 11:30
DEREK	1st Class	7/19/17	1:35 [signature]	Torrent	7/19/17 13:35
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:

FCS Temp = 1°C #1

APPENDIX C – LEVEL II DATA VALIDATION PACKAGE

LABORATORY DATA CONSULTANTS, INC.
2701 Loker Ave. West, Suite 220, Carlsbad, CA 92010 Bus: 760-827-1100 Fax: 760-827-1099

Cornerstone Earth
1270 Springbrook Road, Suite 101
Walnut Creek, CA 94597
ATTN: Mr. Brent M. Johnson

August 16, 2017

SUBJECT: 3141 Taylor Road, Data Validation

Dear Mr. Johnson,

Enclosed are the final validation reports for the fractions listed below. These SDGs were received on August 1, 2017. Attachment 1 is a summary of the samples that were reviewed for each analysis.

LDC Project #39191:

SDG #	Fraction
1707122, 1707124, 1707125	Volatiles, Chlorinated Pesticides, Polychlorinated Biphenyls, Metals

The data validation was performed under Level II guidelines. The analyses were validated using the following documents, as applicable to each method:

- USEPA National Functional Guidelines for Organic Superfund Methods Data Review , January 2017
- USEPA National Functional Guidelines for Inorganic Superfund Methods Data Review , January 2017
- EPA SW 846, Third Edition, Test Methods for Evaluating Solid Waste, update 1, July 1992; update IIA, August 1993; update II, September 1994; update IIB, January 1995; update III, December 1996; update IIIA, April 1998; IIIB, November 2004; Update IV, February 2007; update V, July 2014

Please feel free to contact us if you have any questions.

Sincerely,

Christina Rink

Christina Rink
Project Manager/Chemist

378 pages-EM

Attachment 1

Level II

LDC #39191 (Cornerstone - Walnut Creek, CA / 3141 Taylor Road)

LDC	SDG#	DATE REC'D	(3) DATE DUE	VOA (8260B)		Pest. (8081B)		PCBs (8082A)		Metals (6020A /7000)		As (6020A)																					
Matrix:	Water/Soil			W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S
A	1707122	08/01/17	08/22/17	-	-	0	2	0	1	0	19	0	5																				
B	1707124	08/01/17	08/22/17	-	-	0	16	0	16	0	23	0	1																				
C	1707125	08/01/17	08/22/17	1	0	1	9	1	5	1	9	0	8																				
Total	T/CR			1	0	1	27	1	22	1	51	0	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	118

Shaded cells indicate Level IV validation (all other cells are Level II validation). These sample counts do not include MS/MSD, and DUPs

V:\LOGIN\Cornerstone\Taylor Road\39191ST.wpd

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name: 3141 Taylor Road

LDC Report Date: August 15, 2017

Parameters: Metals

Validation Level: Level II

Laboratory: Torrent Laboratory, Inc.

Sample Delivery Group (SDG): 1707122

Sample Identification	Laboratory Sample Identification	Matrix	Collection Date
SS-101(0-0.5)	1707122-001	Soil	07/18/17
SS-102(0-0.5)	1707122-002	Soil	07/18/17
SS-1(0-0.5)	1707122-003	Soil	07/18/17
SS-2(0-0.5)	1707122-004	Soil	07/18/17
SS-3(0-0.5)	1707122-005	Soil	07/18/17
SS-4(0-0.5)	1707122-006	Soil	07/18/17
SS-4(2.5-3)	1707122-007	Soil	07/18/17
SS-5(0-0.5)	1707122-008	Soil	07/18/17
SS-6(0-0.5)	1707122-009	Soil	07/18/17
SS-6(2.5-3)	1707122-010	Soil	07/18/17
SS-7(0-0.5)	1707122-011	Soil	07/18/17
SS-9(0-0.5)	1707122-012	Soil	07/18/17
SS-8(0-0.5)	1707122-013	Soil	07/18/17
SS-8(2.5-3)	1707122-014	Soil	07/18/17
SS-10(0-0.5)	1707122-015	Soil	07/18/17
SS-11(0-0.5)	1707122-016	Soil	07/18/17
SS-12(0-0.5)	1707122-017	Soil	07/18/17
SS-12(2.5-3)	1707122-018	Soil	07/18/17
SS-13(0-0.5)	1707122-019	Soil	07/18/17
SS-14(0-0.5)	1707122-020	Soil	07/18/17
SS-15(0-0.5)	1707122-021	Soil	07/18/17
SS-16(0-0.5)	1707122-022	Soil	07/18/17
SS-16(2.5-3)	1707122-023	Soil	07/18/17
SS-17(0-0.5)	1707122-024	Soil	07/18/17
SS-101(0-0.5)MS	1707122-001MS	Soil	07/18/17
SS-101(0-0.5)MSD	1707122-001MSD	Soil	07/18/17

Sample Identification	Laboratory Sample Identification	Matrix	Collection Date
SS-13(0-0.5)MS	1707122-019MS	Soil	07/18/17
SS-13(0-0.5)MSD	1707122-019MSD	Soil	07/18/17
SS-16(2.5-3)DUP	1707122-023DUP	Soil	07/18/17

Introduction

This Data Validation Report (DVR) presents data validation findings and results for the associated samples listed on the cover page. Data validation was performed in accordance with a modified outline of the USEPA National Functional Guidelines (NFG) for Inorganic Superfund Methods Data Review (January 2017). Where specific guidance was not available, the data has been evaluated in a conservative manner consistent with industry standards using professional experience.

The analyses were performed by the following methods:

Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Cobalt, Copper, Lead, Molybdenum, Nickel, Selenium, Silver, Thallium, Vanadium, and Zinc by Environmental Protection Agency (EPA) SW 846 Method 6020A
Mercury by EPA SW 846 Method 7471B

All sample results were subjected to Level II data validation, which comprises an evaluation of quality control (QC) summary results.

The following are definitions of the data qualifiers utilized during data validation:

J (Estimated): The compound or analyte was analyzed for and positively identified by the laboratory; however the reported concentration is estimated due to non-conformances discovered during data validation.

U (Non-detected): The compound or analyte was analyzed for and positively identified by the laboratory; however the compound or analyte should be considered non-detected at the reported concentration due to the presence of contaminants detected in the associated blank(s).

UJ (Non-detected estimated): The compound or analyte was reported as not detected by the laboratory; however the reported quantitation/detection limit is estimated due to non-conformances discovered during data validation.

R (Rejected): The sample results were rejected due to gross non-conformances discovered during data validation. Data qualified as rejected is not usable.

NA (Not Applicable): The non-conformance discovered during data validation demonstrates a high bias, while the affected compound or analyte in the associated sample(s) was reported as not detected by the laboratory and did not warrant the qualification of the data.

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

I. Sample Receipt and Technical Holding Times

All samples were received in good condition.

All technical holding time requirements were met.

II. ICPMS Tune

ICP-MS tune data were not reviewed for Level II validation.

III. Instrument Calibration

Initial and continuing calibrations data were not reviewed for Level II validation.

IV. ICP Interference Check Sample Analysis

ICP Interference check sample (ICS) analysis data were not reviewed for Level II validation.

V. Laboratory Blanks

Laboratory blanks were analyzed as required by the methods. No contaminants were found in the laboratory blanks with the following exceptions:

Blank ID	Analyte	Maximum Concentration	Associated Samples
PB (prep blank)	Chromium Molybdenum	0.26 mg/Kg 0.19 mg/Kg	SS-101(0-0.5) SS-102(0-0.5) SS-1(0-0.5) SS-2(0-0.5) SS-3(0-0.5) SS-4(0-0.5) SS-5(0-0.5) SS-6(0-0.5) SS-7(0-0.5) SS-9(0-0.5) SS-8(0-0.5) SS-10(0-0.5) SS-11(0-0.5) SS-12(0-0.5)
PB (prep blank)	Antimony Chromium Molybdenum	0.19 mg/Kg 0.17 mg/Kg 0.20 mg/Kg	SS-13(0-0.5) SS-14(0-0.5) SS-15(0-0.5) SS-16(0-0.5) SS-17(0-0.5)

Data qualification by the laboratory blanks was based on the maximum contaminant concentration in the laboratory blanks in the analysis of each analyte. The sample concentrations were either not detected or were significantly greater (>5X blank contaminants) than the concentrations found in the associated laboratory blanks with the following exceptions:

Sample	Analyte	Reported Concentration	Modified Final Concentration
SS-102(0-0.5)	Molybdenum	0.846 mg/Kg	0.846U mg/Kg
SS-1(0-0.5)	Molybdenum	0.252 mg/Kg	0.252U mg/Kg
SS-2(0-0.5)	Molybdenum	0.706 mg/Kg	0.706U mg/Kg
SS-3(0-0.5)	Molybdenum	0.462 mg/Kg	0.462U mg/Kg
SS-4(0-0.5)	Molybdenum	0.373 mg/Kg	0.373U mg/Kg
SS-5(0-0.5)	Molybdenum	0.146 mg/Kg	0.146U mg/Kg
SS-6(0-0.5)	Molybdenum	0.298 mg/Kg	0.298U mg/Kg
SS-7(0-0.5)	Molybdenum	0.250 mg/Kg	0.250U mg/Kg
SS-9(0-0.5)	Molybdenum	0.265 mg/Kg	0.265U mg/Kg
SS-8(0-0.5)	Molybdenum	0.182 mg/Kg	0.182U mg/Kg
SS-10(0-0.5)	Molybdenum	0.267 mg/Kg	0.267U mg/Kg
SS-11(0-0.5)	Molybdenum	0.491 mg/Kg	0.491U mg/Kg
SS-14(0-0.5)	Antimony Molybdenum	0.188 mg/Kg 0.212 mg/Kg	0.188U mg/Kg 0.212U mg/Kg
SS-15(0-0.5)	Antimony Molybdenum	0.462 mg/Kg 0.668 mg/Kg	0.462U mg/Kg 0.668U mg/Kg
SS-16(0-0.5)	Antimony Molybdenum	0.468 mg/Kg 0.416 mg/Kg	0.468U mg/Kg 0.416U mg/Kg
SS-17(0-0.5)	Antimony Molybdenum	0.350 mg/Kg 0.770 mg/Kg	0.350U mg/Kg 0.770U mg/Kg

VI. Field Blanks

Sample EqB-1 (from SDG 1707125) was identified as an equipment blank. No contaminants were found with the following exceptions:

Blank ID	Collection Date	Analyte	Concentration	Associated Samples
EqB-1	07/18/17	Barium Chromium Molybdenum Nickel Zinc	2.3 ug/L 2.2 ug/L 1.0 ug/L 1.6 ug/L 9.7 ug/L	SS-101(0-0.5) SS-102(0-0.5) SS-1(0-0.5) SS-2(0-0.5) SS-3(0-0.5) SS-4(0-0.5) SS-5(0-0.5) SS-6(0-0.5) SS-7(0-0.5) SS-9(0-0.5) SS-8(0-0.5) SS-10(0-0.5) SS-11(0-0.5) SS-12(0-0.5) SS-13(0-0.5) SS-14(0-0.5) SS-15(0-0.5) SS-16(0-0.5) SS-17(0-0.5)

Sample concentrations were compared to concentrations detected in the field blanks. The sample concentrations were either not detected or were significantly greater (>5X blank contaminants) than the concentrations found in the associated field blanks.

VII. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) sample analysis was performed on an associated project sample. Percent recoveries (%R) were within QC limits with the following exceptions:

Spike ID (Associated Samples)	Analyte	MS (%R) (Limits)	MSD (%R) (Limits)	Flag	A or P
SS-101(0-0.5)MS/MSD (SS-101(0-0.5) SS-102(0-0.5) SS-1(0-0.5) SS-2(0-0.5) SS-3(0-0.5) SS-4(0-0.5) SS-5(0-0.5) SS-6(0-0.5) SS-7(0-0.5) SS-9(0-0.5) SS-8(0-0.5) SS-10(0-0.5) SS-11(0-0.5) SS-12(0-0.5))	Silver	36.8 (81.1-109)	37.1 (81.1-109)	J (all detects) UJ (all non-detects)	A
SS-13(0-0.5)MS/MSD (SS-13(0-0.5) SS-14(0-0.5) SS-15(0-0.5) SS-16(0-0.5) SS-17(0-0.5))	Barium	134 (70.2-130)	57.7 (70.2-130)	J (all detects)	A

Spike ID (Associated Samples)	Analyte	MS (%R) (Limits)	MSD (%R) (Limits)	Flag	A or P
SS-13(0-0.5)MS/MSD (SS-13(0-0.5) SS-14(0-0.5) SS-15(0-0.5) SS-16(0-0.5) SS-17(0-0.5))	Chromium Vanadium Zinc	136 (76.0-116) 137 (65.8-122) 128 (59.9-122)	- - -	J (all detects) J (all detects) J (all detects)	A

Relative percent differences (RPD) were within QC limits.

VIII. Duplicate Sample Analysis

Duplicate (DUP) sample analysis was performed on an associated project sample. Results were within QC limits.

IX. Serial Dilution

Serial dilution was not performed for this SDG.

X. Laboratory Control Samples

Laboratory control samples (LCS) and laboratory control samples duplicates (LCSD) were analyzed as required by the methods. Percent recoveries (%R) were within QC limits. Relative percent differences (RPD) were within QC limits.

XI. Field Duplicates

Samples SS-101(0-0.5) and SS-47(0-0.5) (from SDG 1707125) and samples SS-102(0-0.5) and SS-28(0-0.5) (from SDG 1707124) were identified as field duplicates. No results were detected in any of the samples with the following exceptions:

Analyte	Concentration (mg/Kg)		RPD
	SS-101(0-0.5)	SS-47(0-0.5)	
Arsenic	3.35	4.48	29
Barium	24.8	24.8	0
Cobalt	4.19	6.16	38
Chromium	19.1	19.7	3
Copper	13.3	17.8	29
Lead	5.33	11.2	71
Molybdenum	0.13U	0.429	Not calculable

Analyte	Concentration (mg/Kg)		RPD
	SS-101(0-0.5)	SS-47(0-0.5)	
Nickel	9.80	10.1	3
Vanadium	21.3	14.5	38
Zinc	20.3	23.1	13

Analyte	Concentration (mg/Kg)		RPD
	SS-102(0-0.5)	SS-28(0-0.5)	
Antimony	0.356	0.20U	Not calculable
Arsenic	8.49	7.45	13
Beryllium	0.172	0.27U	Not calculable
Barium	87.5	64.1	31
Cadmium	0.165	0.14U	Not calculable
Chromium	23.7	24.5	3
Cobalt	6.07	6.19	2
Copper	22.9	22.1	4
Lead	38.9	46.2	17
Molybdenum	0.846	1.99	81
Nickel	13.8	14.0	1
Silver	0.250	0.16U	Not calculable
Vanadium	40.7	30.4	29
Zinc	112	229	69

XII. Internal Standards (ICP-MS)

Internal standards data were not reviewed for Level II validation.

XIII. Sample Result Verification

Raw data were not reviewed for Level II validation.

XIV. Overall Assessment of Data

The analysis was conducted within all specifications of the methods. No results were rejected in this SDG.

Due to MS/MSD %R, data were qualified as estimated in nineteen samples.

Due to laboratory blank contamination, data were qualified as not detected in sixteen samples.

The quality control criteria reviewed, other than those discussed above, were met and are considered acceptable. Sample results that were found to be estimated (J) are usable for limited purposes only. Based upon the data validation all other results are considered valid and usable for all purposes.

3141 Taylor Road
Metals - Data Qualification Summary - SDG 1707122

Sample	Analyte	Flag	A or P	Reason
SS-101(0-0.5) SS-102(0-0.5) SS-1(0-0.5) SS-2(0-0.5) SS-3(0-0.5) SS-4(0-0.5) SS-5(0-0.5) SS-6(0-0.5) SS-7(0-0.5) SS-9(0-0.5) SS-8(0-0.5) SS-10(0-0.5) SS-11(0-0.5) SS-12(0-0.5)	Silver	J (all detects) UJ (all non-detects)	A	Matrix spike/Matrix spike duplicate (%R)
SS-13(0-0.5) SS-14(0-0.5) SS-15(0-0.5) SS-16(0-0.5) SS-17(0-0.5)	Barium Chromium Vanadium Zinc	J (all detects) J (all detects) J (all detects) J (all detects)	A	Matrix spike/Matrix spike duplicate (%R)

3141 Taylor Road
Metals - Laboratory Blank Data Qualification Summary - SDG 1707122

Sample	Analyte	Modified Final Concentration	A or P
SS-102(0-0.5)	Molybdenum	0.846U mg/Kg	A
SS-1(0-0.5)	Molybdenum	0.252U mg/Kg	A
SS-2(0-0.5)	Molybdenum	0.706U mg/Kg	A
SS-3(0-0.5)	Molybdenum	0.462U mg/Kg	A
SS-4(0-0.5)	Molybdenum	0.373U mg/Kg	A
SS-5(0-0.5)	Molybdenum	0.146U mg/Kg	A
SS-6(0-0.5)	Molybdenum	0.298U mg/Kg	A
SS-7(0-0.5)	Molybdenum	0.250U mg/Kg	A
SS-9(0-0.5)	Molybdenum	0.265U mg/Kg	A
SS-8(0-0.5)	Molybdenum	0.182U mg/Kg	A

Sample	Analyte	Modified Final Concentration	A or P
SS-10(0-0.5)	Molybdenum	0.267U mg/Kg	A
SS-11(0-0.5)	Molybdenum	0.491U mg/Kg	A
SS-14(0-0.5)	Antimony Molybdenum	0.188U mg/Kg 0.212U mg/Kg	A
SS-15(0-0.5)	Antimony Molybdenum	0.462U mg/Kg 0.668U mg/Kg	A
SS-16(0-0.5)	Antimony Molybdenum	0.468U mg/Kg 0.416U mg/Kg	A
SS-17(0-0.5)	Antimony Molybdenum	0.350U mg/Kg 0.770U mg/Kg	A

3141 Taylor Road
Metals - Field Blank Data Qualification Summary - SDG 1707122

No Sample Data Qualified in this SDG

LDC #: 39191A4a

SDG #: 1707122

Laboratory: Torrent Laboratory, Inc.

VALIDATION COMPLETENESS WORKSHEET

Level II

Date: 08/10/17

Page: 1 of 2

Reviewer: ATL

2nd Reviewer: a

METHOD: Metals (EPA SW 846 Method 6020A/7471B)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Sample receipt/Technical holding times	A / A	
II.	ICP/MS Tune	N	
III.	Instrument Calibration	N	
IV.	ICP Interference Check Sample (ICS) Analysis	N	
V.	Laboratory Blanks	SW	
VI.	Field Blanks	SW	EB = EqB1 (From SDG # 1707125-1)
VII.	Matrix Spike/Matrix Spike Duplicates	SW	
VIII.	Duplicate sample analysis	A	
IX.	Serial Dilution	N	
X.	Laboratory control samples	A	LCS/LCSD
XI.	Field Duplicates	SW	~~(1,3), (2,4)~~ - (1, SS-47(0-0.5)) (2, SS-28(0-0.5)) SDG: 1707125 SDG: 1707124
XII.	Internal Standard (ICP-MS)	N	
XIII.	Sample Result Verification	N	
XIV.	Overall Assessment of Data	A	

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; ND = No compounds detected; R = Rinsate; FB = Field blank; D = Duplicate; TB = Trip blank; EB = Equipment blank; SB=Source blank; OTHER:

	Client ID	Lab ID	Matrix	Date
1	SS-101(0-0.5)	1707122-001	Soil	07/18/17
2	SS-102(0-0.5)	1707122-002	Soil	07/18/17
3	SS-1(0-0.5)	1707122-003	Soil	07/18/17
4	SS-2(0-0.5)	1707122-004	Soil	07/18/17
5	SS-3(0-0.5)	1707122-005	Soil	07/18/17
6	SS-4(0-0.5)	1707122-006	Soil	07/18/17
7	SS-4(2.5-3)	1707122-007	Soil	07/18/17
8	SS-5(0-0.5)	1707122-008	Soil	07/18/17
9	SS-6(0-0.5)	1707122-009	Soil	07/18/17
10	SS-6(2.5-3)	1707122-010	Soil	07/18/17
11	SS-7(0-0.5)	1707122-011	Soil	07/18/17
12	SS-9(0-0.5)	1707122-012	Soil	07/18/17
13	SS-8(0-0.5)	1707122-013	Soil	07/18/17
14	SS-8(2.5-3)	1707122-014	Soil	07/18/17
15	SS-10(0-0.5)	1707122-015	Soil	07/18/17

LDC #: 39191A4a

SDG #: 1707122

Laboratory: Torrent Laboratory, Inc.

VALIDATION COMPLETENESS WORKSHEET

Level II

Date: 08/10/17

Page: 2 of 2

Reviewer: ATL

2nd Reviewer: a

METHOD: Metals (EPA SW 846 Method 6020A/7471B)

	Client ID	Lab ID	Matrix	Date
16	SS-11(0-0.5)	1707122-016	Soil	07/18/17
17	SS-12(0-0.5)	1707122-017	Soil	07/18/17
18	SS-12(2.5-3)	1707122-018	Soil	07/18/17
19	SS-13(0-0.5)	1707122-019	Soil	07/18/17
20	SS-14(0-0.5)	1707122-020	Soil	07/18/17
21	SS-15(0-0.5)	1707122-021	Soil	07/18/17
22	SS-16(0-0.5)	1707122-022	Soil	07/18/17
23	SS-16(2.5-3)	1707122-023	Soil	07/18/17
24	SS-17(0-0.5)	1707122-024	Soil	07/18/17
25	SS-101(0-0.5)MS	1707122-001MS	Soil	07/18/17
26	SS-101(0-0.5)MSD	1707122-001MSD	Soil	07/18/17
27	SS-13(0-0.5)MS	1707122-019MS	Soil	07/18/17
28	SS-13(0-0.5)MSD	1707122-019MSD	Soil	07/18/17
29	~~SS-16(2.5-A~~ SS-16(2.5-3)DUP	1707122-023DUP	↓	↓
30				
31				
32				
33				

Notes:

LDC #: 39194A4a

VALIDATION FINDINGS WORKSHEET
Sample Specific Element Reference

Reviewer: ATL
2nd reviewer: G

All circled elements are applicable to each sample.

Sample ID	Matrix	Target Analyte List (TAL)
7,10,14,18,23	SOIL	Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___ ___
1->6,8,9	↓	Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___ ___
11->13,15,16,17	↓	Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___ ___
19->22,24	↓	Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___ ___
QC		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___ ___
25->28	SOIL	Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___ ___
29	↓	Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___ ___
Analysis Method		
ICP		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___ ___
ICP-MS		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___ ___
GFAA		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___ ___

Comments: Mercury by CVAA if performed

LDC #: 39191A4a

VALIDATION FINDINGS WORKSHEET
PB/ICB/CCB QUALIFIED SAMPLES

Reviewer: ATL
2nd Reviewer:

METHOD: Trace metals (EPA SW 864 Method 6010B/6020/7000)
Soil preparation factor applied: NA
Sample Concentration units, unless otherwise noted: mg/kg
Associated Samples: 1 to 6, 8,9, 11 to 13, 15 to 17

Analyte	Maximum PB[a] (mg/Kg)	Maximum PB[a] (ug/L)	Maximum ICB/CCB[a] (mg/L)	Action Level	2	3	4	5	6	8	9	11	12	13	15	16
Cr	0.26			1.3												
Mo	0.19			0.95	0.846	0.252	0.706	0.462	0.373	0.146	0.298	0.250	0.265	0.182	0.267	0.491

Sample Concentration units, unless otherwise noted: mg/kg
Associated Samples: 19 to 22, 24

Analyte	Maximum PB[a] (mg/Kg)	Maximum PB[a] (ug/L)	Maximum ICB/CCB[a] (mg/L)	Action Level	20	21	22	24					
Sb	0.19			0.95	0.188	0.462	0.468	0.350					
Cr	0.17			0.85									
Mo	0.20			1.0	0.212	0.668	0.416	0.770					

Samples with analyte concentrations within five times the associated ICB, CCB or PB concentration are listed above with the identifications from the Validation Completeness Worksheet. These sample results were qualified as not detected, "U".
Note : a - The listed analyte concentration is the highest ICB, CCB, or PB detected in the analysis of each element.

LDC #: 39191A4a

VALIDATION FINDINGS WORKSHEET
Field Blanks

Reviewer: ATL
2nd Reviewer: a

METHOD: Trace Metals (EPA SW846 6010B/7000)

Blank units: ug/L **Associated sample units:** mg/kg
Sampling date: 07/18/17 Soil factor applied _____
Field blank type: (circle one) Field Blank / Rinsate / Other: FB Associated Samples: ~~all~~ 1-6,8,9,11-13,15-17,19-22,24

Analyte	Blank ID	Sample Identification										
	EqB-1 (From SDG#1717125-1)	Action Limit										
Ba	2.3	0.0115										
Cr	2.2	0.011										
Mo	1.0	0.005										
Ni	1.6	0.008										
Zn	9.7	0.0485										

CIRCLED RESULTS WERE NOT QUALIFIED. ALL RESULTS NOT CIRCLED WERE QUALIFIED BY THE FOLLOWING STATEMENT:
Samples with analyte concentrations within five times the associated field blank concentration are listed above, these sample results were qualified as not detected, "U".

LDC #: 39191A4a

VALIDATION FINDINGS WORKSHEET
Matrix Spike/Matrix Spike Duplicates

Reviewer: ATL
2nd Reviewer: C

METHOD: Trace metals (EPA SW 846 Method 6010/6020/7000)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Was a matrix spike analyzed for each matrix in this SDG?

Y N N/A Were matrix spike percent recoveries (%R) within the control limits of ~~75-125?~~ lab limit If the sample concentration exceeded the spike concentration by a factor of 4 or more, no action was taken.

Y N N/A Were all duplicate sample relative percent differences (RPD) ≤ 20% for samples?

LEVEL IV ONLY:

Y N N/A Were recalculated results acceptable? See Level IV Recalculation Worksheet for recalculations.

#	MS/MSD ID	Matrix	Analyte	MS %Recovery	MSD %Recovery	RPD (Limits)	Associated Samples	Qualifications
	25/26	S	Ag	36.8 (81.1-109)	37.1(81.1-109)		1 to 6,8,9,11 to 13, 15 to 17	J/UJ/A (detect/non-detect)
	27/28	S	Ba	134 (70.2-130)	57.7(70.2-130)		19 to 22,24	J/UJ/A (all detect)
	27/28	S	Cr	136 (76.0-116)			19 to 22,24	Jdet/A (all detect)
	27/28	S	V	137 (65.8-122)			19 to 22,24	Jdet/A (all detect)
	27/28	S	Zn	128 (59.9-122)			19 to 22,24	Jdet/A (all detect)

Comments: 42/43: Ba,V > 4x

LDC#: 39191A4a

VALIDATION FINDINGS WORKSHEET
Field Duplicates

Reviewer: ATL
2nd Reviewer:

METHOD: Metals (EPA Method 6010B/6020A7000)

Analyte	Concentration (mg/kg)		RPD	
	1	SS-47 (0-0.5)		
Arsenic	3.35	4.48	29	
Barium	24.8	24.8	0	
Cobalt	4.19	6.16	38	
Chromium	19.1	19.7	3	
Copper	13.3	17.8	29	
Lead	5.33	11.2	71	
Molybdenum	0.13 U	0.429	NC	
Nickel	9.80	10.1	3	
Vanadium	21.3	14.5	38	
Zinc	20.3	23.1	13	

V:\FIELD DUPLICATES\Field Duplicates\FD_inorganic\2017\39191A4a.wpd

LDC#: 39191A4a

VALIDATION FINDINGS WORKSHEET

Field Duplicates

Reviewer: ATL

2nd Reviewer: O

METHOD: Metals (EPA Method 6010B/6020A7000)

Analyte	Concentration (mg/kg)		RPD	
	2	SS-28 (0-0.5)		
Antimony	0.356	0.20U	NC	
Arsenic	8.49	7.45	13	
Beryllium	0.172	0.27U	NC	
Barium	87.5	64.1	31	
Cadmium	0.165	0.14U	NC	
Chromium	23.7	24.5	3	
Cobalt	6.07	6.19	2	
Copper	22.9	22.1	4	
Lead	38.9	46.2	17	
Molybdenum	0.846	1.99	81	
Nickel	13.8	14.0	1	
Silver	0.250	0.16U	NC	
Vanadium	40.7	30.4	29	
Zinc	112	229	69	

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name: 3141 Taylor Road

LDC Report Date: August 16, 2017

Parameters: Chlorinated Pesticides

Validation Level: Level II

Laboratory: Torrent Laboratory, Inc.

Sample Delivery Group (SDG): 1707122

Sample Identification	Laboratory Sample Identification	Matrix	Collection Date
SS-101(0-0.5)	1707122-001	Soil	07/18/17
SS-102(0-0.5)	1707122-002	Soil	07/18/17

Introduction

This Data Validation Report (DVR) presents data validation findings and results for the associated samples listed on the cover page. Data validation was performed in accordance with a modified outline of the USEPA National Functional Guidelines (NFG) for Organic Superfund Methods Data Review (January 2017). Where specific guidance was not available, the data has been evaluated in a conservative manner consistent with industry standards using professional experience.

The analyses were performed by the following method:

Chlorinated Pesticides by Environmental Protection Agency (EPA) SW 846 Method 8081A

All sample results were subjected to Level II data validation, which comprises an evaluation of quality control (QC) summary results.

The following are definitions of the data qualifiers utilized during data validation:

J (Estimated): The compound or analyte was analyzed for and positively identified by the laboratory; however the reported concentration is estimated due to non-conformances discovered during data validation.

U (Non-detected): The compound or analyte was analyzed for and positively identified by the laboratory; however the compound or analyte should be considered non-detected at the reported concentration due to the presence of contaminants detected in the associated blank(s).

UJ (Non-detected estimated): The compound or analyte was reported as not detected by the laboratory; however the reported quantitation/detection limit is estimated due to non-conformances discovered during data validation.

R (Rejected): The sample results were rejected due to gross non-conformances discovered during data validation. Data qualified as rejected is not usable.

NA (Not Applicable): The non-conformance discovered during data validation demonstrates a high bias, while the affected compound or analyte in the associated sample(s) was reported as not detected by the laboratory and did not warrant the qualification of the data.

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

I. Sample Receipt and Technical Holding Times

All samples were received in good condition and cooler temperatures upon receipt met validation criteria.

All technical holding time requirements were met.

II. GC Instrument Performance Check

Instrument performance check data were not reviewed for Level II validation.

III. Initial Calibration and Initial Calibration Verification

Initial calibration data were not reviewed for Level II validation.

IV. Continuing Calibration

Continuing calibration data were not reviewed for Level II validation.

V. Laboratory Blanks

Laboratory blanks were analyzed as required by the method. No contaminants were found in the laboratory blanks.

VI. Field Blanks

Sample EqB-1 (from SDG 1707125) was identified as an equipment blank. No contaminants were found.

VII. Surrogates

Surrogates were added to all samples as required by the method. All surrogate recoveries (%R) were within QC limits.

VIII. Matrix Spike/Matrix Spike Duplicates

The laboratory has indicated that there were no matrix spike (MS) and matrix spike duplicate (MSD) analyses specified for the samples in this SDG, and therefore matrix spike and matrix spike duplicate analyses were not performed for this SDG.

IX. Laboratory Control Samples

Laboratory control samples (LCS) and laboratory control samples duplicates (LCSD) were analyzed as required by the method. Percent recoveries (%R) were within QC limits. Relative percent differences (RPD) were within QC limits.

X. Field Duplicates

Samples SS-101(0-0.5) and SS-47(0-0.5) (from SDG 1707125) and samples SS-102(0-0.5) and SS-28(0-0.5) (from SDG 1707124) were identified as field duplicates. No results were detected in any of the samples with the following exceptions:

Compound	Concentration (ug/Kg)		RPD
	SS-101(0-0.5)	SS-47(0-0.5)	
4,4-DDE	37.8	65.5	54
4,4-DDT	3.01	14.8	132

Compound	Concentration (ug/Kg)		RPD
	SS-102(0-0.5)	SS-28(0-0.5)	
4,4-DDE	45.2	99.6	75
4,4-DDD	6.5U	4.29	Not calculable
4,4-DDT	12.5	24.2	64

XI. Compound Quantitation

Raw data were not reviewed for Level II validation.

XII. Target Compound Identification

Raw data were not reviewed for Level II validation.

XIII. System Performance

Raw data were not reviewed for Level II validation.

XIII. Overall Assessment of Data

The analysis was conducted within all specifications of the method. No results were rejected in this SDG.

The quality control criteria reviewed were met and are considered acceptable. Based upon the data validation all results are considered valid and usable for all purposes.

3141 Taylor Road
Chlorinated Pesticides - Data Qualification Summary - SDG 1707122

No Sample Data Qualified in this SDG

3141 Taylor Road
Chlorinated Pesticides - Laboratory Blank Data Qualification Summary - SDG 1707122

No Sample Data Qualified in this SDG

3141 Taylor Road
Chlorinated Pesticides - Field Blank Data Qualification Summary - SDG 1707122

No Sample Data Qualified in this SDG

LDC #: 39191A3a

SDG #: 1707122

Laboratory: Torrent Laboratory, Inc.

VALIDATION COMPLETENESS WORKSHEET

Level II

Date: 08/14/17

Page: 1 of 1

Reviewer: JK

2nd Reviewer: O

METHOD: GC Chlorinated Pesticides (EPA SW846 Method 8081A)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Sample receipt/Technical holding times	A, A	
II.	GC Instrument Performance Check	N	
III.	Initial calibration/ICV	N/N	
IV.	Continuing calibration	N	
V.	Laboratory Blanks	A	
VI.	Field blanks	ND	EB= EqB-1 (1707125)
VII.	Surrogate spikes	A	
VIII.	Matrix spike/Matrix spike duplicates	N	CS
IX.	Laboratory control samples	A	LCS/D
X.	Field duplicates	SW	(1, SS-47(0-0.5)) (SDG: 1707125)
XI.	Compound quantitation/RL/LOQ/LODs	N	(2, SS-28(0-0.5) (SDG: 1707124))
XII.	Target compound identification	N	
XIII.	System Performance	N	
XIV	Overall assessment of data	A	

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; ND = No compounds detected; R = Rinsate; FB = Field blank; D = Duplicate; TB = Trip blank; EB = Equipment blank; SB=Source blank; OTHER:

	Client ID	Lab ID	Matrix	Date
+ 1	SS-101(0-0.5)	1707122-001	Soil	07/18/17
2	SS-102(0-0.5)	1707122-002	Soil	07/18/17
3				
4				
5				
6				
7				
8				
9				
10				

Notes:

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LDC#: 39191A3a

VALIDATION FINDINGS WORKSHEET
Field Duplicates

Page: 1 of 1
Reviewer: JVG
2nd Reviewer: [illegible]

METHOD: GC Pest (EPA SW 846 Method 8081A)

Compound	Concentration (ug/Kg)		RPD
	1	SS-47 (0-0.5)	
4,4-DDE	37.8	65.5	54
4,4-DDT	3.01	14.8	132

Compound	Concentration (ug/Kg)		RPD
	2	SS-28 (0-0.5)	
4,4-DDE	45.2	99.6	75
4,4-DDD	6.5U	4.29	NC
4,4-DDT	12.5	24.2	64

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name: 3141 Taylor Road

LDC Report Date: August 16, 2017

Parameters: Polychlorinated Biphenyls

Validation Level: Level II

Laboratory: Torrent Laboratory, Inc.

Sample Delivery Group (SDG): 1707122

Sample Identification	Laboratory Sample Identification	Matrix	Collection Date
SS-102(0-0.5)	1707122-002	Soil	07/18/17

Introduction

This Data Validation Report (DVR) presents data validation findings and results for the associated samples listed on the cover page. Data validation was performed in accordance with a modified outline of the USEPA National Functional Guidelines (NFG) for Organic Superfund Methods Data Review (January 2017). Where specific guidance was not available, the data has been evaluated in a conservative manner consistent with industry standards using professional experience.

The analyses were performed by the following method:

Polychlorinated Biphenyls (PCBs) by Environmental Protection Agency (EPA) SW 846 Method 8082A

All sample results were subjected to Level II data validation, which comprises an evaluation of quality control (QC) summary results.

The following are definitions of the data qualifiers utilized during data validation:

J (Estimated): The compound or analyte was analyzed for and positively identified by the laboratory; however the reported concentration is estimated due to non-conformances discovered during data validation.

U (Non-detected): The compound or analyte was analyzed for and positively identified by the laboratory; however the compound or analyte should be considered non-detected at the reported concentration due to the presence of contaminants detected in the associated blank(s).

UJ (Non-detected estimated): The compound or analyte was reported as not detected by the laboratory; however the reported quantitation/detection limit is estimated due to non-conformances discovered during data validation.

R (Rejected): The sample results were rejected due to gross non-conformances discovered during data validation. Data qualified as rejected is not usable.

NA (Not Applicable): The non-conformance discovered during data validation demonstrates a high bias, while the affected compound or analyte in the associated sample(s) was reported as not detected by the laboratory and did not warrant the qualification of the data.

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

I. Sample Receipt and Technical Holding Times

All samples were received in good condition and cooler temperatures upon receipt met validation criteria.

All technical holding time requirements were met.

II. Initial Calibration and Initial Calibration Verification

Initial calibration data were not reviewed for Level II validation.

III. Continuing Calibration

Continuing calibration data were not reviewed for Level II validation.

IV. Laboratory Blanks

Laboratory blanks were analyzed as required by the method. No contaminants were found in the laboratory blanks.

V. Field Blanks

Sample EqB-1 (from SDG 1707125) was identified as an equipment blank. No contaminants were found.

VI. Surrogates

Surrogates were added to all samples as required by the method. All surrogate recoveries (%R) were within QC limits.

VII. Matrix Spike/Matrix Spike Duplicates

The laboratory has indicated that there were no matrix spike (MS) and matrix spike duplicate (MSD) analyses specified for the samples in this SDG, and therefore matrix spike and matrix spike duplicate analyses were not performed for this SDG.

VIII. Laboratory Control Samples

Laboratory control samples (LCS) and laboratory control samples duplicates (LCSD) were analyzed as required by the method. Percent recoveries (%R) were within QC limits. Relative percent differences (RPD) were within QC limits.

IX. Field Duplicates

Samples SS-102(0-0.5) and SS-28(0-0.5) (from SDG 1707124) were identified as field duplicates. No results were detected in any of the samples.

X. Compound Quantitation

Raw data were not reviewed for Level II validation.

XI. Target Compound Identification

Raw data were not reviewed for Level II validation.

XII. Overall Assessment of Data

The analysis was conducted within all specifications of the method. No results were rejected in this SDG.

The quality control criteria reviewed were met and are considered acceptable. Based upon the data validation all results are considered valid and usable for all purposes.

3141 Taylor Road
Polychlorinated Biphenyls - Data Qualification Summary - SDG 1707122

No Sample Data Qualified in this SDG

3141 Taylor Road
Polychlorinated Biphenyls - Laboratory Blank Data Qualification Summary - SDG 1707122

No Sample Data Qualified in this SDG

3141 Taylor Road
Polychlorinated Biphenyls - Field Blank Data Qualification Summary - SDG 1707122

No Sample Data Qualified in this SDG

LDC #: 39191A3b

SDG #: 1707122

Laboratory: Torrent Laboratory, Inc.

VALIDATION COMPLETENESS WORKSHEET

Level II

Date: 08/14/17

Page: 1 of 1

Reviewer: SVG

2nd Reviewer: [illegible]

METHOD: GC Polychlorinated Biphenyls (EPA SW846 Method 8082A)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Sample receipt/Technical holding times	A / A	
II.	Initial calibration/ICV	N/N	
III.	Continuing calibration	N	
IV.	Laboratory Blanks	A	
V.	Field blanks	ND	EB= EQB-1 (1707125)
VI.	Surrogate spikes	A	
VII.	Matrix spike/Matrix spike duplicates	N	CS
VIII.	Laboratory control samples	A	LCS/D
IX.	Field duplicates	ND SW	(1, SS-208(0-0.5) (SDG: 1707124))
X.	Compound quantitation/RL/LOQ/LODs	N	
XI.	Target compound identification	N	
XII	Overall assessment of data	A	

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; ND = No compounds detected; R = Rinsate; FB = Field blank; D = Duplicate; TB = Trip blank; EB = Equipment blank; SB=Source blank; OTHER:

	Client ID	Lab ID	Matrix	Date
1	SS-102(0-0.5)	1707122-002	Soil	07/18/17
2				
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11				
12				

Notes:

-	425546 MB						

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name: 3141 Taylor Road

LDC Report Date: August 15, 2017

Parameters: Metals

Validation Level: Level II

Laboratory: Torrent Laboratory, Inc.

Sample Delivery Group (SDG): 1707124

Sample Identification	Laboratory Sample Identification	Matrix	Collection Date
SS-18(0-0.5)	1707124-001	Soil	07/18/17
SS-19(0-0.5)	1707124-002	Soil	07/18/17
SS-20(0-0.5)	1707124-003	Soil	07/18/17
SS-21(0-0.5)	1707124-004	Soil	07/18/17
SS-22(0-0.5)	1707124-005	Soil	07/18/17
SS-22(2.5-3)	1707124-006	Soil	07/18/17
SS-23(0-0.5)	1707124-007	Soil	07/18/17
SS-24(0-0.5)	1707124-008	Soil	07/18/17
SS-25(0-0.5)	1707124-009	Soil	07/18/17
SS-26(0-0.5)	1707124-010	Soil	07/18/17
SS-27(0-0.5)	1707124-011	Soil	07/18/17
SS-28(0-0.5)	1707124-012	Soil	07/18/17
SS-29(0-0.5)	1707124-013	Soil	07/18/17
SS-30(0-0.5)	1707124-014	Soil	07/18/17
SS-31(0-0.5)	1707124-015	Soil	07/18/17
SS-32(0-0.5)	1707124-016	Soil	07/18/17
SS-33(0-0.5)	1707124-017	Soil	07/18/17
SS-34(0-0.5)	1707124-018	Soil	07/18/17
SS-35(0-0.5)	1707124-019	Soil	07/18/17
SS-36(0-0.5)	1707124-020	Soil	07/18/17
SS-37(0-0.5)	1707124-021	Soil	07/18/17
SS-38(0-0.5)	1707124-022	Soil	07/18/17
SS-39(0-0.5)	1707124-023	Soil	07/18/17
SS-40(0-0.5)	1707124-024	Soil	07/18/17
SS-28(0-0.5)MS	1707124-012MS	Soil	07/18/17
SS-28(0-0.5)MSD	1707124-012MSD	Soil	07/18/17
SS-22(2.5-3)DUP	1707124-006DUP	Soil	07/18/17
SS-40(0-0.5)DUP	1707124-024DUP	Soil	07/18/17

Introduction

This Data Validation Report (DVR) presents data validation findings and results for the associated samples listed on the cover page. Data validation was performed in accordance with a modified outline of the USEPA National Functional Guidelines (NFG) for Inorganic Superfund Methods Data Review (January 2017). Where specific guidance was not available, the data has been evaluated in a conservative manner consistent with industry standards using professional experience.

The analyses were performed by the following methods:

Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Cobalt, Copper, Lead, Molybdenum, Nickel, Selenium, Silver, Thallium, Vanadium, and Zinc by Environmental Protection Agency (EPA) SW 846 Method 6020A
Mercury by EPA SW 846 Method 7471B

All sample results were subjected to Level II data validation, which comprises an evaluation of quality control (QC) summary results.

The following are definitions of the data qualifiers utilized during data validation:

J (Estimated): The compound or analyte was analyzed for and positively identified by the laboratory; however the reported concentration is estimated due to non-conformances discovered during data validation.

U (Non-detected): The compound or analyte was analyzed for and positively identified by the laboratory; however the compound or analyte should be considered non-detected at the reported concentration due to the presence of contaminants detected in the associated blank(s).

UJ (Non-detected estimated): The compound or analyte was reported as not detected by the laboratory; however the reported quantitation/detection limit is estimated due to non-conformances discovered during data validation.

R (Rejected): The sample results were rejected due to gross non-conformances discovered during data validation. Data qualified as rejected is not usable.

NA (Not Applicable): The non-conformance discovered during data validation demonstrates a high bias, while the affected compound or analyte in the associated sample(s) was reported as not detected by the laboratory and did not warrant the qualification of the data.

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

I. Sample Receipt and Technical Holding Times

All samples were received in good condition.

All technical holding time requirements were met.

II. ICPMS Tune

ICP-MS tune data were not reviewed for Level II validation.

III. Instrument Calibration

Initial and continuing calibrations data were not reviewed for Level II validation.

IV. ICP Interference Check Sample Analysis

ICP Interference check sample (ICS) analysis data were not reviewed for Level II validation.

V. Laboratory Blanks

Laboratory blanks were analyzed as required by the methods. No contaminants were found in the laboratory blanks with the following exceptions:

Blank ID	Analyte	Maximum Concentration	Associated Samples
PB (prep blank)	Antimony Chromium Molybdenum	0.19 mg/Kg 0.17 mg/Kg 0.20 mg/Kg	SS-18(0-0.5) SS-19(0-0.5) SS-20(0-0.5) SS-21(0-0.5) SS-22(0-0.5) SS-23(0-0.5) SS-24(0-0.5) SS-25(0-0.5) SS-26(0-0.5) SS-27(0-0.5)
PB (prep blank)	Chromium Lead Molybdenum Selenium Zinc	0.14 mg/Kg 0.23 mg/Kg 0.20 mg/Kg 0.14 mg/Kg 0.97 mg/Kg	SS-28(0-0.5) SS-29(0-0.5) SS-30(0-0.5) SS-31(0-0.5) SS-32(0-0.5) SS-33(0-0.5) SS-34(0-0.5) SS-35(0-0.5) SS-36(0-0.5) SS-37(0-0.5) SS-38(0-0.5) SS-39(0-0.5) SS-40(0-0.5)

Data qualification by the laboratory blanks was based on the maximum contaminant concentration in the laboratory blanks in the analysis of each analyte. The sample concentrations were either not detected or were significantly greater (>5X blank contaminants) than the concentrations found in the associated laboratory blanks with the following exceptions:

Sample	Analyte	Reported Concentration	Modified Final Concentration
SS-18(0-0.5)	Antimony Molybdenum	0.182 mg/Kg 0.314 mg/Kg	0.182U mg/Kg 0.314U mg/Kg
SS-19(0-0.5)	Antimony Molybdenum	0.295 mg/Kg 0.418 mg/Kg	0.295U mg/Kg 0.418U mg/Kg
SS-20(0-0.5)	Antimony Molybdenum	0.257 mg/Kg 0.223 mg/Kg	0.257U mg/Kg 0.223U mg/Kg
SS-21(0-0.5)	Antimony	0.131 mg/Kg	0.131U mg/Kg
SS-22(0-0.5)	Antimony Molybdenum	0.166 mg/Kg 0.168 mg/Kg	0.166U mg/Kg 0.168U mg/Kg
SS-23(0-0.5)	Antimony Molybdenum	0.163 mg/Kg 0.264 mg/Kg	0.163U mg/Kg 0.264U mg/Kg
SS-24(0-0.5)	Antimony Molybdenum	0.143 mg/Kg 0.132 mg/Kg	0.143U mg/Kg 0.132U mg/Kg
SS-25(0-0.5)	Antimony Molybdenum	0.876 mg/Kg 0.228 mg/Kg	0.876U mg/Kg 0.228U mg/Kg
SS-26(0-0.5)	Antimony Molybdenum	0.363 mg/Kg 0.292 mg/Kg	0.363U mg/Kg 0.292U mg/Kg
SS-27(0-0.5)	Antimony Molybdenum	0.489 mg/Kg 0.341 mg/Kg	0.489U mg/Kg 0.341U mg/Kg
SS-39(0-0.5)	Molybdenum Selenium	0.254 mg/Kg 0.131 mg/Kg	0.254U mg/Kg 0.131U mg/Kg

VI. Field Blanks

Sample EqB-1 (from SDG 1707125) was identified as an equipment blank. No contaminants were found with the following exceptions:

Blank ID	Collection Date	Analyte	Concentration	Associated Samples
EqB-1	07/18/17	Barium Chromium Molybdenum Nickel Zinc	2.3 ug/L 2.2 ug/L 1.0 ug/L 1.6 ug/L 9.7 ug/L	SS-18(0-0.5) SS-19(0-0.5) SS-20(0-0.5) SS-21(0-0.5) SS-22(0-0.5) SS-23(0-0.5) SS-24(0-0.5) SS-25(0-0.5) SS-26(0-0.5) SS-27(0-0.5) SS-28(0-0.5) SS-29(0-0.5) SS-30(0-0.5) SS-31(0-0.5) SS-32(0-0.5) SS-33(0-0.5) SS-34(0-0.5) SS-35(0-0.5) SS-36(0-0.5) SS-37(0-0.5) SS-38(0-0.5) SS-39(0-0.5) SS-40(0-0.5)

Sample concentrations were compared to concentrations detected in the field blanks. The sample concentrations were either not detected or were significantly greater (>5X blank contaminants) than the concentrations found in the associated field blanks.

VII. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) sample analysis was performed on an associated project sample. Percent recoveries (%R) were within QC limits with the following exceptions:

Spike ID (Associated Samples)	Analyte	MS (%R) (Limits)	MSD (%R) (Limits)	Flag	A or P
SS-13(0-0.5)MS/MSD (SS-18(0-0.5) SS-19(0-0.5) SS-20(0-0.5) SS-21(0-0.5) SS-22(0-0.5) SS-23(0-0.5) SS-24(0-0.5) SS-25(0-0.5) SS-26(0-0.5) SS-27(0-0.5))	Barium	134 (70.2-130)	57.7 (70.2-130)	J (all detects)	A

Spike ID (Associated Samples)	Analyte	MS (%R) (Limits)	MSD (%R) (Limits)	Flag	A or P
SS-13(0-0.5)MS/MSD (SS-18(0-0.5) SS-19(0-0.5) SS-20(0-0.5) SS-21(0-0.5) SS-22(0-0.5) SS-23(0-0.5) SS-24(0-0.5) SS-25(0-0.5) SS-26(0-0.5) SS-27(0-0.5))	Chromium Vanadium Zinc	136 (76.0-116) 137 (65.8-122) 128 (59.9-122)	- - -	J (all detects) J (all detects) J (all detects)	A
SS-28(0-0.5)MS/MSD (SS-28(0-0.5) SS-29(0-0.5) SS-30(0-0.5) SS-31(0-0.5) SS-32(0-0.5) SS-33(0-0.5) SS-34(0-0.5) SS-35(0-0.5) SS-36(0-0.5) SS-37(0-0.5) SS-38(0-0.5) SS-39(0-0.5) SS-40(0-0.5))	Barium Cadmium Copper Lead	- 88.1 (88.7-110) - 54.0 (57.9-118)	66.1 (70.2-130) 86.6 (88.7-110) 65.3 (74.8-119) 34.4 (57.9-118)	J (all detects) UJ (all non-detects)	A

For SS-28(0-0.5)MS/MSD, no data were qualified for Zinc percent recoveries (%R) outside the QC limits since the parent sample results were greater than 4X the spike concentration.

Relative percent differences (RPD) were within QC limits.

VIII. Duplicate Sample Analysis

Duplicate (DUP) sample analysis was performed on an associated project sample. Results were within QC limits.

IX. Serial Dilution

Serial dilution was not performed for this SDG.

X. Laboratory Control Samples

Laboratory control samples (LCS) and laboratory control samples duplicates (LCSD) were analyzed as required by the methods. Percent recoveries (%R) were within QC limits. Relative percent differences (RPD) were within QC limits.

XI. Field Duplicates

Samples SS-102(0.05) (from SDG 1707122) and SS-28(0-0.5) were identified as field duplicates. No results were detected in any of the samples with the following exceptions:

Analyte	Concentration (mg/Kg)		RPD
	SS-102(0.05)	SS-28(0-0.5)	
Antimony	0.356	0.20U	Not calculable
Arsenic	8.49	7.45	13
Beryllium	0.172	0.27U	Not calculable
Barium	87.5	64.1	31
Cadmium	0.165	0.14U	Not calculable
Chromium	23.7	24.5	3
Cobalt	6.07	6.19	2
Copper	22.9	22.1	4
Lead	38.9	46.2	17
Molybdenum	0.846	1.99	81
Nickel	13.8	14.0	1
Silver	0.250	0.16U	Not calculable
Vanadium	40.7	30.4	29
Zinc	112	229	69

XII. Internal Standards (ICP-MS)

Internal standards data were not reviewed for Level II validation.

XIII. Sample Result Verification

Raw data were not reviewed for Level II validation.

XIV. Overall Assessment of Data

The analysis was conducted within all specifications of the methods. No results were rejected in this SDG.

Due to MS/MSD %R, data were qualified as estimated in twenty-three samples.

Due to laboratory blank contamination, data were qualified as not detected in eleven samples.

The quality control criteria reviewed, other than those discussed above, were met and are considered acceptable. Sample results that were found to be estimated (J) are usable for limited purposes only. Based upon the data validation all other results are considered valid and usable for all purposes.

3141 Taylor Road
Metals - Data Qualification Summary - SDG 1707124

Sample	Analyte	Flag	A or P	Reason
SS-18(0-0.5) SS-19(0-0.5) SS-20(0-0.5) SS-21(0-0.5) SS-22(0-0.5) SS-23(0-0.5) SS-24(0-0.5) SS-25(0-0.5) SS-26(0-0.5) SS-27(0-0.5)	Barium Chromium Vanadium Zinc	J (all detects) J (all detects) J (all detects) J (all detects)	A	Matrix spike/Matrix spike duplicate (%R)
SS-28(0-0.5) SS-29(0-0.5) SS-30(0-0.5) SS-31(0-0.5) SS-32(0-0.5) SS-33(0-0.5) SS-34(0-0.5) SS-35(0-0.5) SS-36(0-0.5) SS-37(0-0.5) SS-38(0-0.5) SS-39(0-0.5) SS-40(0-0.5)	Barium Cadmium Copper Lead	J (all detects) UJ (all non-detects)	A	Matrix spike/Matrix spike duplicate (%R)

3141 Taylor Road
Metals - Laboratory Blank Data Qualification Summary - SDG 1707124

Sample	Analyte	Modified Final Concentration	A or P
SS-18(0-0.5)	Antimony Molybdenum	0.182U mg/Kg 0.314U mg/Kg	A
SS-19(0-0.5)	Antimony Molybdenum	0.295U mg/Kg 0.418U mg/Kg	A
SS-20(0-0.5)	Antimony Molybdenum	0.257U mg/Kg 0.223U mg/Kg	A
SS-21(0-0.5)	Antimony	0.131U mg/Kg	A
SS-22(0-0.5)	Antimony Molybdenum	0.166U mg/Kg 0.168U mg/Kg	A
SS-23(0-0.5)	Antimony Molybdenum	0.163U mg/Kg 0.264U mg/Kg	A
SS-24(0-0.5)	Antimony Molybdenum	0.143U mg/Kg 0.132U mg/Kg	A

Sample	Analyte	Modified Final Concentration	A or P
SS-25(0-0.5)	Antimony Molybdenum	0.876U mg/Kg 0.228U mg/Kg	A
SS-26(0-0.5)	Antimony Molybdenum	0.363U mg/Kg 0.292U mg/Kg	A
SS-27(0-0.5)	Antimony Molybdenum	0.489U mg/Kg 0.341U mg/Kg	A
SS-39(0-0.5)	Molybdenum Selenium	0.254U mg/Kg 0.131U mg/Kg	A

3141 Taylor Road
Metals - Field Blank Data Qualification Summary - SDG 1707124

No Sample Data Qualified in this SDG

LDC #: 39191B4a

SDG #: 1707124

Laboratory: Torrent Laboratory, Inc.

VALIDATION COMPLETENESS WORKSHEET

Level II

Date: 08/10/17

Page: 1 of 2

Reviewer: ATL

2nd Reviewer: [illegible]

METHOD: Metals (EPA SW 846 Method 6020A/7471B)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Sample receipt/Technical holding times	A / A	
II.	ICP/MS Tune	N	
III.	Instrument Calibration	N	
IV.	ICP Interference Check Sample (ICS) Analysis	N	
V.	Laboratory Blanks	SW	
VI.	Field Blanks	SW	EB = EQB-1 (From SDG # 1707125-1)
VII.	Matrix Spike/Matrix Spike Duplicates	SW	From SDG # 1707122-1 (SS-13 (0-0.5) MS/MSD)
VIII.	Duplicate sample analysis	A	↓ (SS-16 (2.5-3) DUP)
IX.	Serial Dilution	N	
X.	Laboratory control samples	A	LCS/LCSD
XI.	Field Duplicates	SW	(12, SS-102 (0-0.5) (SDG: 1707122))
XII.	Internal Standard (ICP-MS)	N	
XIII.	Sample Result Verification	N	
XIV	Overall Assessment of Data	A	

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; ND = No compounds detected; R = Rinsate; FB = Field blank; D = Duplicate; TB = Trip blank; EB = Equipment blank; SB=Source blank; OTHER:

	Client ID	Lab ID	Matrix	Date
1	SS-18(0-0.5)	1707124-001	Soil	07/18/17
2	SS-19(0-0.5)	1707124-002	Soil	07/18/17
3	SS-20(0-0.5)	1707124-003	Soil	07/18/17
4	SS-21(0-0.5)	1707124-004	Soil	07/18/17
5	SS-22(0-0.5)	1707124-005	Soil	07/18/17
6	SS-22(2.5-3)	1707124-006	Soil	07/18/17
7	SS-23(0-0.5)	1707124-007	Soil	07/18/17
8	SS-24(0-0.5)	1707124-008	Soil	07/18/17
9	SS-25(0-0.5)	1707124-009	Soil	07/18/17
10	SS-26(0-0.5)	1707124-010	Soil	07/18/17
11	SS-27(0-0.5)	1707124-011	Soil	07/18/17
12	SS-28(0-0.5)	1707124-012	Soil	07/18/17
13	SS-29(0-0.5)	1707124-013	Soil	07/18/17
14	SS-30(0-0.5)	1707124-014	Soil	07/18/17
15	SS-31(0-0.5)	1707124-015	Soil	07/18/17

LDC #: 39191B4a

SDG #: 1707124

Laboratory: Torrent Laboratory, Inc.

VALIDATION COMPLETENESS WORKSHEET

Level II

Date: 08/10/17

Reviewer: AIL

2nd Reviewer: [illegible]

METHOD: Metals (EPA SW 846 Method 6020A/7471B)

	Client ID	Lab ID	Matrix	Date
16	SS-32(0-0.5)	1707124-016	Soil	07/18/17
17	SS-33(0-0.5)	1707124-017	Soil	07/18/17
18	SS-34(0-0.5)	1707124-018	Soil	07/18/17
19	SS-35(0-0.5)	1707124-019	Soil	07/18/17
20	SS-36(0-0.5)	1707124-020	Soil	07/18/17
21	SS-37(0-0.5)	1707124-021	Soil	07/18/17
22	SS-38(0-0.5)	1707124-022	Soil	07/18/17
23	SS-39(0-0.5)	1707124-023	Soil	07/18/17
24	SS-40(0-0.5)	1707124-024	Soil	07/18/17
25	SS-28(0-0.5)MS	1707124-012MS	Soil	07/18/17
26	SS-28(0-0.5)MSD	1707124-012MSD	Soil	07/18/17
27	SS-22 (2.5-3) DUP	1707124-006DUP	↓	↓
28	SS-40 (0-0.5) DUP	1707124-024DUP	↓	↓
29				
30				
31				

Notes:

LDC #: 39191B4a

VALIDATION FINDINGS WORKSHEET
Sample Specific Element Reference

Reviewer: ATL
2nd reviewer: a

All circled elements are applicable to each sample.

Sample ID	Matrix	Target Analyte List (TAL)
1-5	SOIL	Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___
6	↓	Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___
7-24	↓	Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___
QC		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___
25, 26	SOIL	Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___
27	↓	Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___
28	↓	Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___
Analysis Method		
ICP		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___
ICP-MS		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___
GFAA		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___

Comments: Mercury by CVAA if performed

LDC #: 39191B4a

VALIDATION FINDINGS WORKSHEET
PB/ICB/CCB QUALIFIED SAMPLES

Reviewer: ATL
2nd Reviewer: a

METHOD: Trace metals (EPA SW 864 Method 6010B/6020/7000)
Soil preparation factor applied: NA
Sample Concentration units, unless otherwise noted: mg/kg
Associated Samples: 1 to 5, 7 to 11

Analyte	Maximum PB[a] (mg/Kg)	Maximum PB[a] (ug/L)	Maximum ICB/CCB[a] (mg/L)	Action Level	1	2	3	4	5	7	8	9	10	11
Sb	0.19			0.95	0.182	0.295	0.257	0.131	0.166	0.163	0.143	0.876	0.363	0.489
Cr	0.17			0.85										
Mo	0.20			1.0	0.314	0.418	0.223		0.168	0.264	0.132	0.228	0.292	0.341

Sample Concentration units, unless otherwise noted: mg/kg
Associated Samples: 12 to 24

Analyte	Maximum PB[a] (mg/Kg)	Maximum PB[a] (ug/L)	Maximum ICB/CCB[a] (mg/L)	Action Level	23								
Cr	0.14			0.70									
Pb	0.23			1.15									
Mo	0.20			1.0	0.254								
Se	0.14			0.70	0.131								
Zn	0.97			4.85									

Samples with analyte concentrations within five times the associated ICB, CCB or PB concentration are listed above with the identifications from the Validation Completeness Worksheet. These sample results were qualified as not detected, "U".
Note : a - The listed analyte concentration is the highest ICB, CCB, or PB detected in the analysis of each element.

LDC #: 39191B4a

VALIDATION FINDINGS WORKSHEET
Field Blanks

Reviewer: ATL
2nd Reviewer: a

METHOD: Trace Metals (EPA SW846 6010B/7000)

Blank units: ug/L **Associated sample units:** mg/kg
Sampling date: 07/18/17 Soil factor applied _____
Field blank type: (circle one) Field Blank / Rinsate / Other: EB Associated Samples: ~~all~~ 1-5, 7-24

Analyte	Blank ID	Sample Identification										
	EqB-1 (From SDG#1717125-1)	Action Limit										
Ba	2.3	0.0115										
Cr	2.2	0.011										
Mo	1.0	0.005										
Ni	1.6	0.008										
Zn	9.7	0.0485										

CIRCLED RESULTS WERE NOT QUALIFIED. ALL RESULTS NOT CIRCLED WERE QUALIFIED BY THE FOLLOWING STATEMENT:
Samples with analyte concentrations within five times the associated field blank concentration are listed above, these sample results were qualified as not detected, "U".

LDC #: 39191B4a

VALIDATION FINDINGS WORKSHEET
Matrix Spike/Matrix Spike Duplicates

Reviewer: ATL
2nd Reviewer:

METHOD: Trace metals (EPA SW 846 Method 6010/6020/7000)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Was a matrix spike analyzed for each matrix in this SDG?

Y N N/A Were matrix spike percent recoveries (%R) within the control limits of 75-125? (lab limits) If the sample concentration exceeded the spike concentration by a factor of 4 or more, no action was taken.

Y N N/A Were all duplicate sample relative percent differences (RPD) ≤ 20% for samples?

LEVEL IV ONLY:

Y N N/A Were recalculated results acceptable? See Level IV Recalculation Worksheet for recalculations.

#	MS/MSD ID	Matrix	Analyte	MS %Recovery	MSD %Recovery	RPD (Limits)	Associated Samples	Qualifications
	SS-13(0-0.5)MS/MSD From SDG#1707122-1	S	Ba	134 (70.2-130)	57.7(70.2-130)		1 to 5, 7 to 11	J/UJ/A (all detect)
	SS-13(0-0.5)MS/MSD From SDG#1707122-1	S	Cr	136 (76.0-116)			1 to 5, 7 to 11	Jdet/A (all detect)
	SS-13(0-0.5)MS/MSD From SDG#1707122-1	S	V	137 (65.8-122)			1 to 5, 7 to 11	Jdet/A (all detect)
	SS-13(0-0.5)MS/MSD From SDG#1707122-1	S	Zn	128 (59.9-122)			1 to 5, 7 to 11	Jdet/A (all detect)
	25/26	S	Ba		66.1 (70.2-130)		12 to 24	J/UJ/A (all detect)
	25/26	S	Cd	88.1 (88.7-110)	86.6 (88.7-110)		12 to 24	J/UJ/A (non-detect/detect)
	25/26	S	Cu		65.3 (74.8-119)		12 to 24	J/UJ/A (all detect)
	25/26	S	Pb	54.0 (57.9-118)	34.4 (57.9-118)		12 to 24	J/UJ/A (all detect)

Comments: 25/26: Zn > 4x

LDC#: 39191B4a

VALIDATION FINDINGS WORKSHEET
Field Duplicates

Reviewer: ATL
2nd Reviewer:

METHOD: Metals (EPA Method 6010B/6020A7000)

V:\FIELD DUPLICATES\Field Duplicates\FD_inorganic\2017\39191B4a.wpd

Analyte	Concentration (mg/kg)		RPD	
	~~12~~ SS-102(0-0.5)	~~SS-102 (0-0.5)~~ 12		
Antimony	0.356	0.20U	NC	
Arsenic	8.49	7.45	13	
Beryllium	0.172	0.27U	NC	
Barium	87.5	64.1	31	
Cadmium	0.165	0.14U	NC	
Chromium	23.7	24.5	3	
Cobalt	6.07	6.19	2	
Copper	22.9	22.1	4	
Lead	38.9	46.2	17	
Molybdenum	0.846	1.99	81	
Nickel	13.8	14.0	1	
Silver	0.250	0.16U	NC	
Vanadium	40.7	30.4	29	
Zinc	112	229	69	

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name: 3141 Taylor Road

LDC Report Date: August 15, 2017

Parameters: Chlorinated Pesticides

Validation Level: Level II

Laboratory: Torrent Laboratory, Inc.

Sample Delivery Group (SDG): 1707124

Sample Identification	Laboratory Sample Identification	Matrix	Collection Date
SS-25(0-0.5)	1707124-009	Soil	07/18/17
SS-26(0-0.5)	1707124-010	Soil	07/18/17
SS-27(0-0.5)	1707124-011	Soil	07/18/17
SS-28(0-0.5)	1707124-012	Soil	07/18/17
SS-29(0-0.5)	1707124-013	Soil	07/18/17
SS-30(0-0.5)	1707124-014	Soil	07/18/17
SS-31(0-0.5)	1707124-015	Soil	07/18/17
SS-32(0-0.5)	1707124-016	Soil	07/18/17
SS-33(0-0.5)	1707124-017	Soil	07/18/17
SS-34(0-0.5)	1707124-018	Soil	07/18/17
SS-35(0-0.5)	1707124-019	Soil	07/18/17
SS-36(0-0.5)	1707124-020	Soil	07/18/17
SS-37(0-0.5)	1707124-021	Soil	07/18/17
SS-38(0-0.5)	1707124-022	Soil	07/18/17
SS-39(0-0.5)	1707124-023	Soil	07/18/17
SS-40(0-0.5)	1707124-024	Soil	07/18/17
SS-30(0-0.5)MS	1707124-014MS	Soil	07/18/17
SS-30(0-0.5)MSD	1707124-014MSD	Soil	07/18/17

Introduction

This Data Validation Report (DVR) presents data validation findings and results for the associated samples listed on the cover page. Data validation was performed in accordance with a modified outline of the USEPA National Functional Guidelines (NFG) for Organic Superfund Methods Data Review (January 2017). Where specific guidance was not available, the data has been evaluated in a conservative manner consistent with industry standards using professional experience.

The analyses were performed by the following method:

Chlorinated Pesticides by Environmental Protection Agency (EPA) SW 846 Method 8081A

All sample results were subjected to Level II data validation, which comprises an evaluation of quality control (QC) summary results.

The following are definitions of the data qualifiers utilized during data validation:

J (Estimated): The compound or analyte was analyzed for and positively identified by the laboratory; however the reported concentration is estimated due to non-conformances discovered during data validation.

U (Non-detected): The compound or analyte was analyzed for and positively identified by the laboratory; however the compound or analyte should be considered non-detected at the reported concentration due to the presence of contaminants detected in the associated blank(s).

UJ (Non-detected estimated): The compound or analyte was reported as not detected by the laboratory; however the reported quantitation/detection limit is estimated due to non-conformances discovered during data validation.

R (Rejected): The sample results were rejected due to gross non-conformances discovered during data validation. Data qualified as rejected is not usable.

NA (Not Applicable): The non-conformance discovered during data validation demonstrates a high bias, while the affected compound or analyte in the associated sample(s) was reported as not detected by the laboratory and did not warrant the qualification of the data.

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

I. Sample Receipt and Technical Holding Times

All samples were received in good condition and cooler temperatures upon receipt met validation criteria.

All technical holding time requirements were met.

II. GC Instrument Performance Check

Instrument performance check data were not reviewed for Level II validation.

III. Initial Calibration and Initial Calibration Verification

Initial calibration data were not reviewed for Level II validation.

IV. Continuing Calibration

Continuing calibration data were not reviewed for Level II validation.

V. Laboratory Blanks

Laboratory blanks were analyzed as required by the method. No contaminants were found in the laboratory blanks.

VI. Field Blanks

Sample EqB-1 (from SDG 1707125) was identified as an equipment blank. No contaminants were found.

VII. Surrogates

Surrogates were added to all samples as required by the method. All surrogate recoveries (%R) were within QC limits.

VIII. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) sample analysis was performed on an associated project sample. Percent recoveries (%R) were within QC limits. Relative percent differences (RPD) were within QC limits.

IX. Laboratory Control Samples

Laboratory control samples (LCS) and laboratory control samples duplicates (LCSD) were analyzed as required by the method. Percent recoveries (%R) were within QC limits. Relative percent differences (RPD) were within QC limits.

X. Field Duplicates

Samples SS-102(0-0.5) (from SDG 1707122) and SS-28(0-0.5) were identified as field duplicates. No results were detected in any of the samples with the following exceptions:

Compound	Concentration (ug/Kg)		RPD
	SS-102 (0-0.5)	SS-28(0-0.5)	
4,4-DDE	45.2	99.6	75
4,4-DDD	6.5U	4.29	Not calculable
4,4-DDT	12.5	24.2	64

XI. Compound Quantitation

Raw data were not reviewed for Level II validation.

XII. Target Compound Identification

Raw data were not reviewed for Level II validation.

XIII. System Performance

Raw data were not reviewed for Level II validation.

XIII. Overall Assessment of Data

The analysis was conducted within all specifications of the method. No results were rejected in this SDG.

The quality control criteria reviewed were met and are considered acceptable. Based upon the data validation all results are considered valid and usable for all purposes.

3141 Taylor Road
Chlorinated Pesticides - Data Qualification Summary - SDG 1707124

No Sample Data Qualified in this SDG

3141 Taylor Road
Chlorinated Pesticides - Laboratory Blank Data Qualification Summary - SDG 1707124

No Sample Data Qualified in this SDG

3141 Taylor Road
Chlorinated Pesticides - Field Blank Data Qualification Summary - SDG 1707124

No Sample Data Qualified in this SDG

LDC #: 39191B3a

SDG #: 1707124

Laboratory: Torrent Laboratory, Inc.

VALIDATION COMPLETENESS WORKSHEET

Level II

Date: 08/14/17

Page: 1 of 2

Reviewer: SW

2nd Reviewer: [illegible]

METHOD: GC Chlorinated Pesticides (EPA SW846 Method 8081A)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Sample receipt/Technical holding times	A, A	
II.	GC Instrument Performance Check	N	
III.	Initial calibration/ICV	N/N	
IV.	Continuing calibration	N	
V.	Laboratory Blanks	A	
VI.	Field blanks	ND	EB= EqB-1 (1707125)
VII.	Surrogate spikes	A	
VIII.	Matrix spike/Matrix spike duplicates	A	
IX.	Laboratory control samples	A	LCS/D
X.	Field duplicates	SW	(4, SS-102(0-0.5) SDG: 1707122)
XI.	Compound quantitation/RL/LOQ/LODs	N	
XII.	Target compound identification	N	
XIII.	System Performance	N	
XIV.	Overall assessment of data	A	

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; ND = No compounds detected; R = Rinsate; FB = Field blank; D = Duplicate; TB = Trip blank; EB = Equipment blank; SB=Source blank; OTHER:

	Client ID	Lab ID	Matrix	Date
1	SS-25(0-0.5)	1707124-009	Soil	07/18/17
2	SS-26(0-0.5)	1707124-010	Soil	07/18/17
3	SS-27(0-0.5)	1707124-011	Soil	07/18/17
4	SS-28(0-0.5)	1707124-012	Soil	07/18/17
5	SS-29(0-0.5)	1707124-013	Soil	07/18/17
6	SS-30(0-0.5)	1707124-014	Soil	07/18/17
7	SS-31(0-0.5)	1707124-015	Soil	07/18/17
8	SS-32(0-0.5)	1707124-016	Soil	07/18/17
9	SS-33(0-0.5)	1707124-017	Soil	07/18/17
10	SS-34(0-0.5)	1707124-018	Soil	07/18/17
11	SS-35(0-0.5)	1707124-019	Soil	07/18/17
12	SS-36(0-0.5)	1707124-020	Soil	07/18/17
13	SS-37(0-0.5)	1707124-021	Soil	07/18/17
14	SS-38(0-0.5)	1707124-022	Soil	07/18/17
15	SS-39(0-0.5)	1707124-023	Soil	07/18/17

LDC #: 39191B3a

SDG #: 1707124

Laboratory: Torrent Laboratory, Inc.

VALIDATION COMPLETENESS WORKSHEET

Level II

Date: 08/14/17

Page: 2 of 2

Reviewer: JVG

2nd Reviewer: C

METHOD: GC Chlorinated Pesticides (EPA SW846 Method 8081A)

	Client ID	Lab ID	Matrix	Date
16	SS-40(0-0.5)	1707124-024	Soil	07/18/17
17	SS-30(0-0.5)MS	1707124-014MS	Soil	07/18/17
18	SS-30(0-0.5)MSD	1707124-014MSD	Soil	07/18/17
19				
20				
21				
22				
23				

Notes:

	425687 MB						

LDC#: 39191B3a

VALIDATION FINDINGS WORKSHEET
Field Duplicates

Page: 1 of 1
Reviewer: JVG
2nd Reviewer: [illegible]

METHOD: GC Pest (EPA SW 846 Method 8081A)

Compound	Concentration (ug/Kg)		RPD
	SS-102(0-0.5)	~~SS-102 (0-0.5)~~ 4	
4,4-DDE	45.2	99.6	75
4,4-DDD	6.5U	4.29	NC
4,4-DDT	12.5	24.2	64

V:\FIELD DUPLICATES\Field Duplicates\FD_Organics\2017\39191B3a.wpd

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name: 3141 Taylor Road

LDC Report Date: August 15, 2017

Parameters: Polychlorinated Biphenyls

Validation Level: Level II

Laboratory: Torrent Laboratory, Inc.

Sample Delivery Group (SDG): 1707124

Sample Identification	Laboratory Sample Identification	Matrix	Collection Date
SS-25(0-0.5)	1707124-009	Soil	07/18/17
SS-26(0-0.5)	1707124-010	Soil	07/18/17
SS-27(0-0.5)	1707124-011	Soil	07/18/17
SS-28(0-0.5)	1707124-012	Soil	07/18/17
SS-29(0-0.5)	1707124-013	Soil	07/18/17
SS-30(0-0.5)	1707124-014	Soil	07/18/17
SS-31(0-0.5)	1707124-015	Soil	07/18/17
SS-32(0-0.5)	1707124-016	Soil	07/18/17
SS-33(0-0.5)	1707124-017	Soil	07/18/17
SS-34(0-0.5)	1707124-018	Soil	07/18/17
SS-35(0-0.5)	1707124-019	Soil	07/18/17
SS-36(0-0.5)	1707124-020	Soil	07/18/17
SS-37(0-0.5)	1707124-021	Soil	07/18/17
SS-38(0-0.5)	1707124-022	Soil	07/18/17
SS-39(0-0.5)	1707124-023	Soil	07/18/17
SS-40(0-0.5)	1707124-024	Soil	07/18/17
SS-29(0-0.5)MS	1707124-013MS	Soil	07/18/17
SS-29(0-0.5)MSD	1707124-013MSD	Soil	07/18/17

Introduction

This Data Validation Report (DVR) presents data validation findings and results for the associated samples listed on the cover page. Data validation was performed in accordance with a modified outline of the USEPA National Functional Guidelines (NFG) for Organic Superfund Methods Data Review (January 2017). Where specific guidance was not available, the data has been evaluated in a conservative manner consistent with industry standards using professional experience.

The analyses were performed by the following method:

Polychlorinated Biphenyls (PCBs) by Environmental Protection Agency (EPA) SW 846 Method 8082A

All sample results were subjected to Level II data validation, which comprises an evaluation of quality control (QC) summary results.

The following are definitions of the data qualifiers utilized during data validation:

J (Estimated): The compound or analyte was analyzed for and positively identified by the laboratory; however the reported concentration is estimated due to non-conformances discovered during data validation.

U (Non-detected): The compound or analyte was analyzed for and positively identified by the laboratory; however the compound or analyte should be considered non-detected at the reported concentration due to the presence of contaminants detected in the associated blank(s).

UJ (Non-detected estimated): The compound or analyte was reported as not detected by the laboratory; however the reported quantitation/detection limit is estimated due to non-conformances discovered during data validation.

R (Rejected): The sample results were rejected due to gross non-conformances discovered during data validation. Data qualified as rejected is not usable.

NA (Not Applicable): The non-conformance discovered during data validation demonstrates a high bias, while the affected compound or analyte in the associated sample(s) was reported as not detected by the laboratory and did not warrant the qualification of the data.

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

I. Sample Receipt and Technical Holding Times

All samples were received in good condition and cooler temperatures upon receipt met validation criteria.

All technical holding time requirements were met.

II. Initial Calibration and Initial Calibration Verification

Initial calibration data were not reviewed for Level II validation.

III. Continuing Calibration

Continuing calibration data were not reviewed for Level II validation.

IV. Laboratory Blanks

Laboratory blanks were analyzed as required by the method. No contaminants were found in the laboratory blanks.

V. Field Blanks

Sample EqB-1 (from SDG 1707125) was identified as an equipment blank. No contaminants were found.

VI. Surrogates

Surrogates were added to all samples as required by the method. All surrogate recoveries (%R) were within QC limits.

VII. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) sample analysis was performed on an associated project sample. Percent recoveries (%R) were within QC limits. Relative percent differences (RPD) were within QC limits.

VIII. Laboratory Control Samples

Laboratory control samples (LCS) and laboratory control samples duplicates (LCSD) were analyzed as required by the method. Percent recoveries (%R) were within QC limits. Relative percent differences (RPD) were within QC limits.

IX. Field Duplicates

Samples SS-28(0-0.5) and SS-102(0-0.5) (from SDG 1707122) were identified as field duplicates. No results were detected in any of the samples.

X. Compound Quantitation

Raw data were not reviewed for Level II validation.

XI. Target Compound Identification

Raw data were not reviewed for Level II validation.

XII. Overall Assessment of Data

The analysis was conducted within all specifications of the method. No results were rejected in this SDG.

The quality control criteria reviewed were met and are considered acceptable. Based upon the data validation all results are considered valid and usable for all purposes.

3141 Taylor Road
Polychlorinated Biphenyls - Data Qualification Summary - SDG 1707124

No Sample Data Qualified in this SDG

3141 Taylor Road
Polychlorinated Biphenyls - Laboratory Blank Data Qualification Summary - SDG 1707124

No Sample Data Qualified in this SDG

3141 Taylor Road
Polychlorinated Biphenyls - Field Blank Data Qualification Summary - SDG 1707124

No Sample Data Qualified in this SDG

LDC #: 39191B3b

SDG #: 1707124

Laboratory: Torrent Laboratory, Inc.

VALIDATION COMPLETENESS WORKSHEET

Level II

Date: 08/14/17

Page: 1 of 2

Reviewer: JG

2nd Reviewer: [illegible]

METHOD: GC Polychlorinated Biphenyls (EPA SW846 Method 8082A)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Sample receipt/Technical holding times	A / A	
II.	Initial calibration/ICV	N/N	
III.	Continuing calibration	N	
IV.	Laboratory Blanks	A	
V.	Field blanks	ND	EB= EqB-1 (1707125)
VI.	Surrogate spikes	A	
VII.	Matrix spike/Matrix spike duplicates	A	
VIII.	Laboratory control samples	A	LCS 5
IX.	Field duplicates ND	~~SW~~	(4, SS-102 (0-0.5) SDG: 1707122)
X.	Compound quantitation/RL/LOQ/LODs	N	
XI.	Target compound identification	N	
XII.	Overall assessment of data	A	

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; ND = No compounds detected; R = Rinsate; FB = Field blank; D = Duplicate; TB = Trip blank; EB = Equipment blank; SB=Source blank; OTHER:

	Client ID	Lab ID	Matrix	Date
1	SS-25(0-0.5)	1707124-009	Soil	07/18/17
2	SS-26(0-0.5)	1707124-010	Soil	07/18/17
3	SS-27(0-0.5)	1707124-011	Soil	07/18/17
4	SS-28(0-0.5)	1707124-012	Soil	07/18/17
5	SS-29(0-0.5)	1707124-013	Soil	07/18/17
6	SS-30(0-0.5)	1707124-014	Soil	07/18/17
7	SS-31(0-0.5)	1707124-015	Soil	07/18/17
8	SS-32(0-0.5)	1707124-016	Soil	07/18/17
9	SS-33(0-0.5)	1707124-017	Soil	07/18/17
10	SS-34(0-0.5)	1707124-018	Soil	07/18/17
11	SS-35(0-0.5)	1707124-019	Soil	07/18/17
12	SS-36(0-0.5)	1707124-020	Soil	07/18/17
13	SS-37(0-0.5)	1707124-021	Soil	07/18/17
14	SS-38(0-0.5)	1707124-022	Soil	07/18/17
15	SS-39(0-0.5)	1707124-023	Soil	07/18/17
16	SS-40(0-0.5)	1707124-024	Soil	07/18/17
17	SS-29(0-0.5)MS	1707124-013MS	Soil	07/18/17

LDC #: 39191B3b

SDG #: 1707124

Laboratory: Torrent Laboratory, Inc.

VALIDATION COMPLETENESS WORKSHEET

Level II

Date: 08/14/17

Page: 2 of 2

Reviewer: SW

2nd Reviewer: C

METHOD: GC Polychlorinated Biphenyls (EPA SW846 Method 8082A)

	Client ID	Lab ID	Matrix	Date
18	SS-29(0-0.5)MSD	1707124-013MSD	Soil	07/18/17
19				
20				
21				
22				
23				

Notes:

	425664 MB						

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name: 3141 Taylor Road

LDC Report Date: August 15, 2017

Parameters: Volatiles

Validation Level: Level II

Laboratory: Torrent Laboratory, Inc.

Sample Delivery Group (SDG): 1707125

Sample Identification	Laboratory Sample Identification	Matrix	Collection Date
Trip Blank	1707125-022	Water	07/18/17

Introduction

This Data Validation Report (DVR) presents data validation findings and results for the associated samples listed on the cover page. Data validation was performed in accordance with a modified outline of the USEPA National Functional Guidelines (NFG) for Organic Superfund Methods Data Review (January 2017). Where specific guidance was not available, the data has been evaluated in a conservative manner consistent with industry standards using professional experience.

The analyses were performed by the following method:

Volatile Organic Compounds (VOCs) by Environmental Protection Agency (EPA) SW 846 Method 8260B

All sample results were subjected to Level II data validation, which comprises an evaluation of quality control (QC) summary results.

The following are definitions of the data qualifiers utilized during data validation:

J (Estimated): The compound or analyte was analyzed for and positively identified by the laboratory; however the reported concentration is estimated due to non-conformances discovered during data validation.

U (Non-detected): The compound or analyte was analyzed for and positively identified by the laboratory; however the compound or analyte should be considered non-detected at the reported concentration due to the presence of contaminants detected in the associated blank(s).

UJ (Non-detected estimated): The compound or analyte was reported as not detected by the laboratory; however the reported quantitation/detection limit is estimated due to non-conformances discovered during data validation.

R (Rejected): The sample results were rejected due to gross non-conformances discovered during data validation. Data qualified as rejected is not usable.

NA (Not Applicable): The non-conformance discovered during data validation demonstrates a high bias, while the affected compound or analyte in the associated sample(s) was reported as not detected by the laboratory and did not warrant the qualification of the data.

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

I. Sample Receipt and Technical Holding Times

All samples were received in good condition and cooler temperatures upon receipt met validation criteria.

All technical holding time requirements were met.

II. GC/MS Instrument Performance Check

Instrument performance check data were not reviewed for Level II validation.

III. Initial Calibration and Initial Calibration Verification

Initial calibration data were not reviewed for Level II validation.

IV. Continuing Calibration

Continuing calibration data were not reviewed for Level II validation.

V. Laboratory Blanks

Laboratory blanks were analyzed as required by the method. No contaminants were found in the laboratory blanks with the following exceptions:

Blank ID	Analysis Date	Compound	Concentration	Associated Samples
425531MB	07/20/17	1,2-Dichloroethane Chloromethane	0.12 ug/L 0.17 ug/L	All samples in SDG 1707125

Sample concentrations were compared to concentrations detected in the laboratory blanks. The sample concentrations were either not detected or were significantly greater (>10X for common contaminants, >5X for other contaminants) than the concentrations found in the associated laboratory blanks.

VI. Field Blanks

Sample Trip Blank was identified as a trip blank. No contaminants were found.

VII. Surrogates

Surrogates were added to all samples as required by the method. All surrogate recoveries (%R) were within QC limits.

VIII. Matrix Spike/Matrix Spike Duplicates

The laboratory has indicated that there were no matrix spike (MS) and matrix spike duplicate (MSD) analyses specified for the samples in this SDG, and therefore matrix spike and matrix spike duplicate analyses were not performed for this SDG.

IX. Laboratory Control Samples

Laboratory control samples (LCS) and laboratory control samples duplicates (LCSD) were analyzed as required by the method. Percent recoveries (%R) were within QC limits. Relative percent differences (RPD) were within QC limits.

X. Field Duplicates

No field duplicates were identified in this SDG.

XI. Internal Standards

Internal standards data were not reviewed for Level II validation.

XII. Compound Quantitation

Raw data were not reviewed for Level II validation.

XIII. Target Compound Identifications

Raw data were not reviewed for Level II validation.

XIV. System Performance

Raw data were not reviewed for Level II validation.

XV. Overall Assessment of Data

The analysis was conducted within all specifications of the method. No results were rejected in this SDG.

The quality control criteria reviewed were met and are considered acceptable. Based upon the data validation all results are considered valid and usable for all purposes.

3141 Taylor Road
Volatiles - Data Qualification Summary - SDG 1707125

No Sample Data Qualified in this SDG

3141 Taylor Road
Volatiles - Laboratory Blank Data Qualification Summary - SDG 1707125

No Sample Data Qualified in this SDG

3141 Taylor Road
Volatiles - Field Blank Data Qualification Summary - SDG 1707125

No Sample Data Qualified in this SDG

LDC #: 39191C1

SDG #: 1707125

Laboratory: Torrent Laboratory, Inc.

VALIDATION COMPLETENESS WORKSHEET

Level II

Date: 08/14/17

Page: 1 of 1

Reviewer: SVL

2nd Reviewer:

METHOD: GC/MS Volatiles (EPA SW 846 Method 8260B)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Sample receipt/Technical holding times	A / A	
II.	GC/MS Instrument performance check	N	
III.	Initial calibration/ICV	N/N	
IV.	Continuing calibration	N	
V.	Laboratory Blanks	SW	
VI.	Field blanks	ND	TB = 1
VII.	Surrogate spikes	A	
VIII.	Matrix spike/Matrix spike duplicates	N	
IX.	Laboratory control samples	A	LCS/D
X.	Field duplicates	N	
XI.	Internal standards	N	
XII.	Compound quantitation RL/LOQ/LODs	N	
XIII.	Target compound identification	N	
XIV.	System performance	N	
XV.	Overall assessment of data	A	

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; ND = No compounds detected; R = Rinsate; FB = Field blank; D = Duplicate; TB = Trip blank; EB = Equipment blank; SB=Source blank; OTHER:

	Client ID	Lab ID	Matrix	Date
1	Trip Blank	1707125-022	Water	07/18/17
2				
3				
4				
5				
6				
7				
8				

Notes:

+1	425534 MB						
	~~425687~~						

TARGET COMPOUND WORKSHEET

METHOD: VOA

A. Chloromethane	AA. Tetrachloroethene	AAA. 1,3,5-Trimethylbenzene	AAAA. Ethyl tert-butyl ether	A1. 1,3-Butadiene	A2.
B. Bromomethane	BB. 1,1,2,2-Tetrachloroethane	BBB. 4-Chlorotoluene	BBBB. tert-Amyl methyl ether	B1. Hexane	B2.
C. Vinyl choride	CC. Toluene	CCC. tert-Butylbenzene	CCCC. 1-Chlorohexane	C1. Heptane	C2.
D. Chloroethane	DD. Chlorobenzene	DDD. 1,2,4-Trimethylbenzene	DDDD. Isopropyl alcohol	D1. Propylene	D2.
E. Methylene chloride	EE. Ethylbenzene	EEE. sec-Butylbenzene	EEEE. Acetonitrile	E1. Freon 11	E2.
F. Acetone	FF. Styrene	FFF. 1,3-Dichlorobenzene	FFFF. Acrolein	F1. Freon 12	F2.
G. Carbon disulfide	GG. Xylenes, total	GGG. p-Isopropyltoluene	GGGG. Acrylonitrile	G1. Freon 113	G2.
H. 1,1-Dichloroethene	HH. Vinyl acetate	HHH. 1,4-Dichlorobenzene	HHHH. 1,4-Dioxane	H1. Freon 114	H2.
I. 1,1-Dichloroethane	II. 2-Chloroethylvinyl ether	III. n-Butylbenzene	IIII. Isobutyl alcohol	I1. 2-Nitropropane	I2.
J. 1,2-Dichloroethene, total	JJ. Dichlorodifluoromethane	JJJ. 1,2-Dichlorobenzene	JJJJ. Methacrylonitrile	J1. Dimethyl disulfide	J2.
K. Chloroform	KK. Trichlorofluoromethane	KKK. 1,2,4-Trichlorobenzene	KKKK. Propionitrile	K1. 2,3-Dimethyl pentane	K2.
L. 1,2-Dichloroethane	LL. Methyl-tert-butyl ether	LLL. Hexachlorobutadiene	LLLL. Ethyl ether	L1. 2,4-Dimethyl pentane	L2.
M. 2-Butanone	MM. 1,2-Dibromo-3-chloropropane	MMM. Naphthalene	MMMM. Benzyl chloride	M1. 3,3-Dimethyl pentane	M2.
N. 1,1,1-Trichloroethane	NN. Methyl ethyl ketone	NNN. 1,2,3-Trichlorobenzene	NNNN. Iodomethane	N1. 2-Methylpentane	N2.
O. Carbon tetrachloride	OO. 2,2-Dichloropropane	OOO. 1,3,5-Trichlorobenzene	OOOO.1,1-Difluoroethane	O1. 3-Methylpentane	O2.
P. Bromodichloromethane	PP. Bromochloromethane	PPP. trans-1,2-Dichloroethene	PPPP. Tetrahydrofuran	P1. 3-Ethylpentane	P2.
Q. 1,2-Dichloropropane	QQ. 1,1-Dichloropropene	QQQ. cis-1,2-Dichloroethene	QQQQ. Methyl acetate	Q1. 2,2-Dimethylpentane	Q2.
R. cis-1,3-Dichloropropene	RR. Dibromomethane	RRR. m,p-Xylenes	RRRR. Ethyl acetate	R1. 2,2,3- Trimethylbutane	R2.
S. Trichloroethene	SS. 1,3-Dichloropropane	SSS. o-Xylene	SSSS. Cyclohexane	S1. 2,2,4-Trimethylpentane	S2.
T. Dibromochloromethane	TT. 1,2-Dibromoethane	TTT. 1,1,2-Trichloro-1,2,2-trifluoroethane	TTTT. Methylcyclohexane	T1. 2-Methylhexane	T2.
U. 1,1,2-Trichloroethane	UU. 1,1,1,2-Tetrachloroethane	UUU. 1,2-Dichlorotetrafluoroethane	UUUU. Allyl chloride	U1. Nonanal	U2.
V. Benzene	VV. Isopropylbenzene	VVV. 4-Ethyltoluene	VVVV. Methyl methacrylate	V1. 2-Methylnaphthalene	V2.
W. trans-1,3-Dichloropropene	WW. Bromobenzene	WWW. Ethanol	WWWW. Ethyl methacrylate	W1. Methanol	W2.
X. Bromoform	XX. 1,2,3-Trichloropropane	XXX. Di-isopropyl ether	XXXX. cis-1,4-Dichloro-2-butene	X1. 1,2,3-Trimethylbenzene	X2.
Y. 4-Methyl-2-pentanone	YY. n-Propylbenzene	YYY. tert-Butanol	YYYY. trans-1,4-Dichloro-2-butene	Y1.	Y2.
Z. 2-Hexanone	ZZ. 2-Chlorotoluene	ZZZ. tert-Butyl alcohol	ZZZZ. Pentachloroethane	Z1.	Z2.

LDC #: 39191 C1

VALIDATION FINDINGS WORKSHEET
Blanks

Page: 1 of 1
Reviewer: JVG
2nd Reviewer:

METHOD: GC/MS VOA (EPA SW 846 Method 8260B)
Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".
Y N N/A Was a method blank associated with every sample in this SDG?
Y N N/A Was a method blank analyzed at least once every 12 hours for each matrix and concentration?
Y N N/A Was there contamination in the method blanks? If yes, please see the qualifications below.

Blank analysis date: 07/20/17
Conc. units: ug/L
Associated Samples: All (ND)

Compound	Blank ID	Sample Identification								
	425531 MB									
L	0.12									
A	0.17									

Blank analysis date:
Conc. units:
Associated Samples:

Compound	Blank ID	Sample Identification								

All results were qualified using the criteria stated below except those circled.

Note: Common contaminants such as Methylene chloride, Acetone, 2-Butanone, Carbon disulfide and TICs that were detected in samples within ten times the associated method blank concentration were qualified as not detected, "U". Other contaminants within five times the method blank concentration were also qualified as not detected, "U".

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name: 3141 Taylor Road

LDC Report Date: August 15, 2017

Parameters: Chlorinated Pesticides

Validation Level: Level II

Laboratory: Torrent Laboratory, Inc.

Sample Delivery Group (SDG): 1707125

Sample Identification	Laboratory Sample Identification	Matrix	Collection Date
SS-41(0-0.5)	1707125-001	Soil	07/18/17
SS-42(0-0.5)	1707125-002	Soil	07/18/17
SS-43(0-0.5)	1707125-003	Soil	07/18/17
SS-44(0-0.5)	1707125-004	Soil	07/18/17
SS-45(0-0.5)	1707125-005	Soil	07/18/17
SS-46(0-0.5)	1707125-006	Soil	07/18/17
SS-47(0-0.5)	1707125-007	Soil	07/18/17
SS-48(0-0.5)	1707125-008	Soil	07/18/17
SS-49(0-0.5)	1707125-009	Soil	07/18/17
EqB-1	1707125-021	Water	07/18/17

Introduction

This Data Validation Report (DVR) presents data validation findings and results for the associated samples listed on the cover page. Data validation was performed in accordance with a modified outline of the USEPA National Functional Guidelines (NFG) for Organic Superfund Methods Data Review (January 2017). Where specific guidance was not available, the data has been evaluated in a conservative manner consistent with industry standards using professional experience.

The analyses were performed by the following method:

Chlorinated Pesticides by Environmental Protection Agency (EPA) SW 846 Method 8081A

All sample results were subjected to Level II data validation, which comprises an evaluation of quality control (QC) summary results.

The following are definitions of the data qualifiers utilized during data validation:

J (Estimated): The compound or analyte was analyzed for and positively identified by the laboratory; however the reported concentration is estimated due to non-conformances discovered during data validation.

U (Non-detected): The compound or analyte was analyzed for and positively identified by the laboratory; however the compound or analyte should be considered non-detected at the reported concentration due to the presence of contaminants detected in the associated blank(s).

UJ (Non-detected estimated): The compound or analyte was reported as not detected by the laboratory; however the reported quantitation/detection limit is estimated due to non-conformances discovered during data validation.

R (Rejected): The sample results were rejected due to gross non-conformances discovered during data validation. Data qualified as rejected is not usable.

NA (Not Applicable): The non-conformance discovered during data validation demonstrates a high bias, while the affected compound or analyte in the associated sample(s) was reported as not detected by the laboratory and did not warrant the qualification of the data.

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

I. Sample Receipt and Technical Holding Times

All samples were received in good condition and cooler temperatures upon receipt met validation criteria.

All technical holding time requirements were met.

II. GC Instrument Performance Check

Instrument performance check data were not reviewed for Level II validation.

III. Initial Calibration and Initial Calibration Verification

Initial calibration data were not reviewed for Level II validation.

IV. Continuing Calibration

Continuing calibration data were not reviewed for Level II validation.

V. Laboratory Blanks

Laboratory blanks were analyzed as required by the method. No contaminants were found in the laboratory blanks.

VI. Field Blanks

Sample EqB-1 was identified as an equipment blank. No contaminants were found.

VII. Surrogates

Surrogates were added to all samples as required by the method. All surrogate recoveries (%R) were within QC limits with the following exceptions:

Sample	Surrogate	%R (Limits)	Affected Compound	Flag	A or P
EqB-1	Decachlorobiphenyl	12.2 (44-101)	All compounds	UJ (all non-detects)	P

VIII. Matrix Spike/Matrix Spike Duplicates

The laboratory has indicated that there were no matrix spike (MS) and matrix spike duplicate (MSD) analyses specified for the samples in this SDG, and therefore matrix spike and matrix spike duplicate analyses were not performed for this SDG.

IX. Laboratory Control Samples

Laboratory control samples (LCS) and laboratory control samples duplicates (LCSD) were analyzed as required by the method. Percent recoveries (%R) were within QC limits. Relative percent differences (RPD) were within QC limits.

X. Field Duplicates

Samples SS-101(0-0.5) (from SDG 1707122) and SS-47(0-0.5) were identified as field duplicates. No results were detected in any of the samples with the following exceptions:

Compound	Concentration (ug/Kg)		RPD
	SS-101(0-0.5)	SS-47(0-0.5)	
4,4-DDE	37.8	65.5	54
4,4-DDT	3.01	14.8	132

XI. Compound Quantitation

Raw data were not reviewed for Level II validation.

XII. Target Compound Identification

Raw data were not reviewed for Level II validation.

XIII. System Performance

Raw data were not reviewed for Level II validation.

XIII. Overall Assessment of Data

The analysis was conducted within all specifications of the method. No results were rejected in this SDG.

Due to surrogate %R, data were qualified as estimated in one sample.

The quality control criteria reviewed, other than those discussed above, were met and are considered acceptable. Sample results that were found to be estimated (J) are usable for limited purposes only. Based upon the data validation all other results are considered valid and usable for all purposes.

3141 Taylor Road
Chlorinated Pesticides - Data Qualification Summary - SDG 1707125

Sample	Compound	Flag	A or P	Reason
EqB-1	All compounds	UJ (all non-detects)	P	Surrogate spikes (%R)

3141 Taylor Road
Chlorinated Pesticides - Laboratory Blank Data Qualification Summary - SDG 1707125

No Sample Data Qualified in this SDG

3141 Taylor Road
Chlorinated Pesticides - Field Blank Data Qualification Summary - SDG 1707125

No Sample Data Qualified in this SDG

LDC #: 39191C3a
SDG #: 1707125
Laboratory: Torrent Laboratory, Inc.

VALIDATION COMPLETENESS WORKSHEET
Level II

Date: 08/14/17
Page: 1 of 1
Reviewer: OVG
2nd Reviewer: [illegible]

METHOD: GC Chlorinated Pesticides (EPA SW846 Method 8081A)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Sample receipt/Technical holding times	A/A	
II.	GC Instrument Performance Check	N	
III.	Initial calibration/ICV	N/N	
IV.	Continuing calibration	N	
V.	Laboratory Blanks	A	
VI.	Field blanks	ND	EB = 10
VII.	Surrogate spikes	SW	
VIII.	Matrix spike/Matrix spike duplicates	N	CS
IX.	Laboratory control samples	A	LCS/D
X.	Field duplicates	SW	(7, SS-101(0-0.5) SDG: 1707122)
XI.	Compound quantitation/RL/LOQ/LODs	N	
XII.	Target compound identification	N	
XIII.	System Performance	N	
XIV	Overall assessment of data	A	

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; ND = No compounds detected; R = Rinsate; FB = Field blank; D = Duplicate; TB = Trip blank; EB = Equipment blank; SB=Source blank; OTHER:

	Client ID	Lab ID	Matrix	Date
1	SS-41(0-0.5)	1707125-001	Soil	07/18/17
2	SS-42(0-0.5)	1707125-002	Soil	07/18/17
3	SS-43(0-0.5)	1707125-003	Soil	07/18/17
4	SS-44(0-0.5)	1707125-004	Soil	07/18/17
5	SS-45(0-0.5)	1707125-005	Soil	07/18/17
6	SS-46(0-0.5)	1707125-006	Soil	07/18/17
7	SS-47(0-0.5)	1707125-007	Soil	07/18/17
8	SS-48(0-0.5)	1707125-008	Soil	07/18/17
9	SS-49(0-0.5)	1707125-009	Soil	07/18/17
10	EqB-1	1707125-021	Water	07/18/17
11				
12				
13	425503 MB			
14	425687			
15	425673			

LDC #: 39191 C3a

VALIDATION FINDINGS WORKSHEET
Surrogate Spikes

Reviewer: JVG
2nd Reviewer:

METHOD: GC Pesticides/PCBs (EPA SW 846 Method 8081/8082)

Please see qualification below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Were surrogates spiked into all samples, standards and blanks?
Y N N/A Did all surrogate percent recoveries (%R) meet the QC limits?

#	Sample ID	Column	Surrogate Compound	%R (Limits)	Qualifications
	10 (MD)	NS	B	12.2 (44-101)	J/UJ/P
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	

Letter Designation	Surrogate Compound	Recovery QC Limits (Soil)	Recovery QC Limits (Water)	Comments
A	Tetrachloro-m-xylene			
B	Decachlorobiphenyl			

LDC#: 39191C3a

VALIDATION FINDINGS WORKSHEET
Field Duplicates

Page: 1 of 1
Reviewer: JVG
2nd Reviewer: _____

METHOD: GC Pest (EPA SW 846 Method 8081A)

Compound	Concentration (ug/Kg)		RPD
	SS-101 (0-0.5)	7	
4,4-DDE	37.8	65.5	54
4,4-DDT	3.01	14.8	132

V:\FIELD DUPLICATES\Field Duplicates\FD_Organics\2017\39191C3a.wpd

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name: 3141 Taylor Road

LDC Report Date: August 15, 2017

Parameters: Polychlorinated Biphenyls

Validation Level: Level II

Laboratory: Torrent Laboratory, Inc.

Sample Delivery Group (SDG): 1707125

Sample Identification	Laboratory Sample Identification	Matrix	Collection Date
SS-41(0-0.5)	1707125-001	Soil	07/18/17
SS-42(0-0.5)	1707125-002	Soil	07/18/17
SS-50(0-0.5)	1707125-010	Soil	07/18/17
SS-50(1-1.5)	1707125-011	Soil	07/18/17
SS-50(2-3)	1707125-012	Soil	07/18/17
EqB-1	1707125-021	Water	07/18/17
SS-41(0-0.5)MS	1707125-001MS	Soil	07/18/17
SS-41(0-0.5)MSD	1707125-001MSD	Soil	07/18/17
EqB-1MS	1707125-021MS	Water	07/18/17
EqB-1MSD	1707125-021MSD	Water	07/18/17

Introduction

This Data Validation Report (DVR) presents data validation findings and results for the associated samples listed on the cover page. Data validation was performed in accordance with a modified outline of the USEPA National Functional Guidelines (NFG) for Organic Superfund Methods Data Review (January 2017). Where specific guidance was not available, the data has been evaluated in a conservative manner consistent with industry standards using professional experience.

The analyses were performed by the following method:

Polychlorinated Biphenyls (PCBs) by Environmental Protection Agency (EPA) SW 846 Method 8082A

All sample results were subjected to Level II data validation, which comprises an evaluation of quality control (QC) summary results.

The following are definitions of the data qualifiers utilized during data validation:

J (Estimated): The compound or analyte was analyzed for and positively identified by the laboratory; however the reported concentration is estimated due to non-conformances discovered during data validation.

U (Non-detected): The compound or analyte was analyzed for and positively identified by the laboratory; however the compound or analyte should be considered non-detected at the reported concentration due to the presence of contaminants detected in the associated blank(s).

UJ (Non-detected estimated): The compound or analyte was reported as not detected by the laboratory; however the reported quantitation/detection limit is estimated due to non-conformances discovered during data validation.

R (Rejected): The sample results were rejected due to gross non-conformances discovered during data validation. Data qualified as rejected is not usable.

NA (Not Applicable): The non-conformance discovered during data validation demonstrates a high bias, while the affected compound or analyte in the associated sample(s) was reported as not detected by the laboratory and did not warrant the qualification of the data.

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

I. Sample Receipt and Technical Holding Times

All samples were received in good condition and cooler temperatures upon receipt met validation criteria.

All technical holding time requirements were met.

II. Initial Calibration and Initial Calibration Verification

Initial calibration data were not reviewed for Level II validation.

III. Continuing Calibration

Continuing calibration data were not reviewed for Level II validation.

IV. Laboratory Blanks

Laboratory blanks were analyzed as required by the method. No contaminants were found in the laboratory blanks.

V. Field Blanks

Sample EqB-1 was identified as an equipment blank. No contaminants were found.

VI. Surrogates

Surrogates were added to all samples as required by the method. All surrogate recoveries (%R) were within QC limits.

VII. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) sample analysis was performed on an associated project sample. Percent recoveries (%R) were within QC limits. Relative percent differences (RPD) were within QC limits.

VIII. Laboratory Control Samples

Laboratory control samples (LCS) and laboratory control samples duplicates (LCSD) were analyzed as required by the method. Percent recoveries (%R) were within QC limits. Relative percent differences (RPD) were within QC limits.

IX. Field Duplicates

No field duplicates were identified in this SDG.

X. Compound Quantitation

Raw data were not reviewed for Level II validation.

XI. Target Compound Identification

Raw data were not reviewed for Level II validation.

XII. Overall Assessment of Data

The analysis was conducted within all specifications of the method. No results were rejected in this SDG.

The quality control criteria reviewed were met and are considered acceptable. Based upon the data validation all results are considered valid and usable for all purposes.

3141 Taylor Road
Polychlorinated Biphenyls - Data Qualification Summary - SDG 1707125

No Sample Data Qualified in this SDG

3141 Taylor Road
Polychlorinated Biphenyls - Laboratory Blank Data Qualification Summary - SDG 1707125

No Sample Data Qualified in this SDG

3141 Taylor Road
Polychlorinated Biphenyls - Field Blank Data Qualification Summary - SDG 1707125

No Sample Data Qualified in this SDG

LDC #: 39191C3b

VALIDATION COMPLETENESS WORKSHEET

Level II

Date: 08/14/17

SDG #: 1707125

Page: 1 of 1

Laboratory: Torrent Laboratory, Inc.

Reviewer: [illegible]

2nd Reviewer: [illegible]

METHOD: GC Polychlorinated Biphenyls (EPA SW846 Method 8082A)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Sample receipt/Technical holding times	A / A	
II.	Initial calibration/ICV	N/N	
III.	Continuing calibration	N	
IV.	Laboratory Blanks	A	
V.	Field blanks	ND	EB = 6
VI.	Surrogate spikes	A	
VII.	Matrix spike/Matrix spike duplicates	A	
VIII.	Laboratory control samples	A	LCS/D
IX.	Field duplicates	N	
X.	Compound quantitation/RL/LOQ/LODs	N	
XI.	Target compound identification	N	
XII.	Overall assessment of data	A	

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; ND = No compounds detected; R = Rinsate; FB = Field blank; D = Duplicate; TB = Trip blank; EB = Equipment blank; SB=Source blank; OTHER:

	Client ID	Lab ID	Matrix	Date
1	SS-41(0-0.5)	1707125-001	Soil	07/18/17
2	SS-42(0-0.5)	1707125-002	Soil	07/18/17
3	SS-50(0-0.5)	1707125-010	Soil	07/18/17
4	SS-50(1-1.5)	1707125-011	Soil	07/18/17
5	SS-50(2-3)	1707125-012	Soil	07/18/17
6	EqB-1	1707125-021	Water	07/18/17
7	SS-41(0-0.5)MS	1707125-001MS	Soil	07/18/17
8	SS-41(0-0.5)MSD	1707125-001MSD	Soil	07/18/17
9	EqB-1MS	1707125-021MS	Water	07/18/17
10	EqB-1MSD	1707125-021MSD	Water	07/18/17
11				
12				
13				

Notes:

1	425620 MB						
2	425624						

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name: 3141 Taylor Road

LDC Report Date: August 15, 2017

Parameters: Metals

Validation Level: Level II

Laboratory: Torrent Laboratory, Inc.

Sample Delivery Group (SDG): 1707125

Sample Identification	Laboratory Sample Identification	Matrix	Collection Date
SS-41(0-0.5)	1707125-001	Soil	07/18/17
SS-42(0-0.5)	1707125-002	Soil	07/18/17
SS-43(0-0.5)	1707125-003	Soil	07/18/17
SS-44(0-0.5)	1707125-004	Soil	07/18/17
SS-45(0-0.5)	1707125-005	Soil	07/18/17
SS-46(0-0.5)	1707125-006	Soil	07/18/17
SS-47(0-0.5)	1707125-007	Soil	07/18/17
SS-48(0-0.5)	1707125-008	Soil	07/18/17
SS-49(0-0.5)	1707125-009	Soil	07/18/17
SS-12A(0-0.5)	1707125-013	Soil	07/18/17
SS-12B(0-0.5)	1707125-014	Soil	07/18/17
SS-12C(0-0.5)	1707125-015	Soil	07/18/17
SS-12D(0-0.5)	1707125-016	Soil	07/18/17
BG-1(0.5-1)	1707125-017	Soil	07/18/17
BG-2(0.5-1)	1707125-018	Soil	07/18/17
BG-3(0.5-1)	1707125-019	Soil	07/18/17
BG-4(0.5-1)	1707125-020	Soil	07/18/17
EqB-1	1707125-021	Water	07/18/17
SS-41(0-0.5)MS	1707125-001MS	Soil	07/18/17
SS-41(0-0.5)MSD	1707125-001MSD	Soil	07/18/17
EqB-1MS	1707125-021MS	Water	07/18/17
EqB-1MSD	1707125-021MSD	Water	07/18/17
BG-4(0.5-1)DUP	1707125-020DUP	Soil	07/18/17

Introduction

This Data Validation Report (DVR) presents data validation findings and results for the associated samples listed on the cover page. Data validation was performed in accordance with a modified outline of the USEPA National Functional Guidelines (NFG) for Inorganic Superfund Methods Data Review (January 2017). Where specific guidance was not available, the data has been evaluated in a conservative manner consistent with industry standards using professional experience.

The analyses were performed by the following methods:

Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Cobalt, Copper, Lead, Molybdenum, Nickel, Selenium, Silver, Thallium, Vanadium, and Zinc by Environmental Protection Agency (EPA) SW 846 Method 6020A
Mercury by EPA SW 846 Methods 7470A/7471B

All sample results were subjected to Level II data validation, which comprises an evaluation of quality control (QC) summary results.

The following are definitions of the data qualifiers utilized during data validation:

J (Estimated): The compound or analyte was analyzed for and positively identified by the laboratory; however the reported concentration is estimated due to non-conformances discovered during data validation.

U (Non-detected): The compound or analyte was analyzed for and positively identified by the laboratory; however the compound or analyte should be considered non-detected at the reported concentration due to the presence of contaminants detected in the associated blank(s).

UJ (Non-detected estimated): The compound or analyte was reported as not detected by the laboratory; however the reported quantitation/detection limit is estimated due to non-conformances discovered during data validation.

R (Rejected): The sample results were rejected due to gross non-conformances discovered during data validation. Data qualified as rejected is not usable.

NA (Not Applicable): The non-conformance discovered during data validation demonstrates a high bias, while the affected compound or analyte in the associated sample(s) was reported as not detected by the laboratory and did not warrant the qualification of the data.

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

I. Sample Receipt and Technical Holding Times

All samples were received in good condition.

All technical holding time requirements were met.

II. ICPMS Tune

ICP-MS tune data were not reviewed for Level II validation.

III. Instrument Calibration

Initial and continuing calibrations data were not reviewed for Level II validation.

IV. ICP Interference Check Sample Analysis

ICP Interference check sample (ICS) analysis data were not reviewed for Level II validation.

V. Laboratory Blanks

Laboratory blanks were analyzed as required by the methods. No contaminants were found in the laboratory blanks with the following exceptions:

Blank ID	Analyte	Maximum Concentration	Associated Samples
PB (prep blank)	Antimony Chromium Silver Zinc	0.20 mg/Kg 0.11 mg/Kg 0.10 mg/Kg 1.6 mg/Kg	SS-41(0-0.5) SS-42(0-0.5) SS-43(0-0.5) SS-44(0-0.5) SS-45(0-0.5) SS-46(0-0.5) SS-47(0-0.5) SS-48(0-0.5) SS-49(0-0.5)
PB (prep blank)	Antimony Barium Chromium Lead Molybdenum Silver Thallium	0.047 ug/L 0.38 ug/L 0.092 ug/L 0.057 ug/L 0.033 ug/L 0.021 ug/L 0.025 ug/L	EqB-1

Data qualification by the laboratory blanks was based on the maximum contaminant concentration in the laboratory blanks in the analysis of each analyte. The sample concentrations were either not detected or were significantly greater (>5X blank contaminants) than the concentrations found in the associated laboratory blanks with the following exceptions:

Sample	Analyte	Reported Concentration	Modified Final Concentration
SS-41(0-0.5)	Antimony Silver	0.652 mg/Kg 0.120 mg/Kg	0.652U mg/Kg 0.120U mg/Kg
SS-43(0-0.5)	Antimony	0.192 mg/Kg	0.192U mg/Kg
SS-44(0-0.5)	Antimony	0.445 mg/Kg	0.445U mg/Kg
SS-45(0-0.5)	Antimony	0.224 mg/Kg	0.224U mg/Kg
SS-46(0-0.5)	Antimony	0.379 mg/Kg	0.379U mg/Kg
SS-48(0-0.5)	Zinc	4.90 mg/Kg	4.90U mg/Kg

VI. Field Blanks

Sample EqB-1 was identified as an equipment blank. No contaminants were found with the following exceptions:

Blank ID	Collection Date	Analyte	Concentration	Associated Samples
EqB-1	07/18/17	Barium Chromium Molybdenum Nickel Zinc	2.3 ug/L 2.2 ug/L 1.0 ug/L 1.6 ug/L 9.7 ug/L	SS-41(0-0.5) SS-42(0-0.5) SS-43(0-0.5) SS-44(0-0.5) SS-45(0-0.5) SS-46(0-0.5) SS-47(0-0.5) SS-48(0-0.5) SS-49(0-0.5)

Sample concentrations were compared to concentrations detected in the field blanks. The sample concentrations were either not detected or were significantly greater (>5X blank contaminants) than the concentrations found in the associated field blanks.

VII. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) sample analysis was performed on an associated project sample. Percent recoveries (%R) were within QC limits. Relative percent differences (RPD) were within QC limits.

VIII. Duplicate Sample Analysis

Duplicate (DUP) sample analysis was performed on an associated project sample. Results were within QC limits.

IX. Serial Dilution

Serial dilution was not performed for this SDG.

X. Laboratory Control Samples

Laboratory control samples (LCS) were analyzed as required by the method. Percent recoveries (%R) were within QC limits.

XI. Field Duplicates

Samples SS-101(0.05) (from SDG 1707122) and SS-47(0-0.5) were identified as field duplicates. No results were detected in any of the samples with the following exceptions:

Analyte	Concentration (mg/Kg)		RPD
	SS-101(0.05)	SS-47(0-0.5)	
Arsenic	3.35	4.48	29
Barium	24.8	24.8	0
Cobalt	4.19	6.16	38
Chromium	19.1	19.7	3
Copper	13.3	17.8	29
Lead	5.33	11.2	71
Molybdenum	0.13 U	0.429	Not calculable
Nickel	9.80	10.1	3
Vanadium	21.3	14.5	38
Zinc	20.3	23.1	13

XII. Internal Standards (ICP-MS)

Internal standards data were not reviewed for Level II validation.

XIII. Sample Result Verification

Raw data were not reviewed for Level II validation.

XIV. Overall Assessment of Data

The analysis was conducted within all specifications of the methods. No results were rejected in this SDG.

Due to laboratory blank contamination, data were qualified as not detected in eleven samples.

The quality control criteria reviewed, other than those discussed above, were met and are considered acceptable. Based upon the data validation all other results are considered valid and usable for all purposes.

3141 Taylor Road
Metals - Data Qualification Summary - SDG 1707125

No Sample Data Qualified in this SDG

3141 Taylor Road
Metals - Laboratory Blank Data Qualification Summary - SDG 1707125

Sample	Analyte	Modified Final Concentration	A or P
SS-41(0-0.5)	Antimony Silver	0.652U mg/Kg 0.120U mg/Kg	A
SS-43(0-0.5)	Antimony	0.192U mg/Kg	A
SS-44(0-0.5)	Antimony	0.445U mg/Kg	A
SS-45(0-0.5)	Antimony	0.224U mg/Kg	A
SS-46(0-0.5)	Antimony	0.379U mg/Kg	A
SS-48(0-0.5)	Zinc	4.90U mg/Kg	A

3141 Taylor Road
Metals - Field Blank Data Qualification Summary - SDG 1707125

No Sample Data Qualified in this SDG

LDC #: 39191C4a

SDG #: 1707125

Laboratory: Torrent Laboratory, Inc.

VALIDATION COMPLETENESS WORKSHEET

Level II

Date: 08/10/17

Page: 1 of 2

Reviewer: ATL

2nd Reviewer: O

METHOD: Metals (EPA SW 846 Method 6020A/7470A/7471B)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Sample receipt/Technical holding times	A/A	
II.	ICP/MS Tune	N	
III.	Instrument Calibration	N	
IV.	ICP Interference Check Sample (ICS) Analysis	N	
V.	Laboratory Blanks	SW	
VI.	Field Blanks	SW	18 = EB
VII.	Matrix Spike/Matrix Spike Duplicates	A	
VIII.	Duplicate sample analysis	A	From SDG # 1707122 / SDG # 1707124
IX.	Serial Dilution	N	
X.	Laboratory control samples	A	LCS
XI.	Field Duplicates	SW	(7, SS-101(0-0.5)) SDG: 1707122
XII.	Internal Standard (ICP-MS)	N	
XIII.	Sample Result Verification	N	
XIV	Overall Assessment of Data	A	

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; ND = No compounds detected; R = Rinsate; FB = Field blank; D = Duplicate; TB = Trip blank; EB = Equipment blank; SB=Source blank; OTHER:

	Client ID	Lab ID	Matrix	Date
1	SS-41(0-0.5)	1707125-001	Soil	07/18/17
2	SS-42(0-0.5)	1707125-002	Soil	07/18/17
3	SS-43(0-0.5)	1707125-003	Soil	07/18/17
4	SS-44(0-0.5)	1707125-004	Soil	07/18/17
5	SS-45(0-0.5)	1707125-005	Soil	07/18/17
6	SS-46(0-0.5)	1707125-006	Soil	07/18/17
7	SS-47(0-0.5)	1707125-007	Soil	07/18/17
8	SS-48(0-0.5)	1707125-008	Soil	07/18/17
9	SS-49(0-0.5)	1707125-009	Soil	07/18/17
10	SS-12A(0-0.5)	1707125-013	Soil	07/18/17
11	SS-12B(0-0.5)	1707125-014	Soil	07/18/17
12	SS-12C(0-0.5)	1707125-015	Soil	07/18/17
13	SS-12D(0-0.5)	1707125-016	Soil	07/18/17
14	BG-1(0.5-1)	1707125-017	Soil	07/18/17
15	BG-2(0.5-1)	1707125-018	Soil	07/18/17

LDC #: 39191C4a

SDG #: 1707125

Laboratory: Torrent Laboratory, Inc.

VALIDATION COMPLETENESS WORKSHEET

Level II

Date: 08/10/17

Page: 2 of 2

Reviewer: AT

2nd Reviewer: [illegible]

METHOD: Metals (EPA SW 846 Method 6020A/7470A/7471B)

	Client ID	Lab ID	Matrix	Date
16	BG-3(0.5-1)	1707125-019	Soil	07/18/17
17	BG-4(0.5-1)	1707125-020	Soil	07/18/17
18	EqB-1	1707125-021	Water	07/18/17
19	SS-41(0-0.5)MS	1707125-001MS	Soil	07/18/17
20	SS-41(0-0.5)MSD	1707125-001MSD	Soil	07/18/17
21	EqB-1MS	1707125-021MS	Water	07/18/17
22	EqB-1MSD	1707125-021MSD	Water	07/18/17
23	BG-4(0.5-1)DUP	1707125-020DUP	↓	↓
24				
25				
26				
27				

Notes:

LDC #: 39191C4a

VALIDATION FINDINGS WORKSHEET
Sample Specific Element Reference

Reviewer: ATL
2nd reviewer: [illegible]

All circled elements are applicable to each sample.

Sample ID	Matrix	Target Analyte List (TAL)
1→9,18	SOIL/W	Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___ ___
10→17	SOIL	Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___ ___
QC		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___ ___
19,20	SOIL	Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___ ___
21,22	water	Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___ ___
23	SOIL	Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___ ___
Analysis Method		
ICP		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___ ___
ICP-MS		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___ ___
GFAA		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti,

Comments: Mercury by CVAA if performed

LDC #: 39191C4a

VALIDATION FINDINGS WORKSHEET
PB/ICB/CCB QUALIFIED SAMPLES

Reviewer: ATL
2nd Reviewer:

METHOD: Trace metals (EPA SW 864 Method 6010B/6020/7000)
Soil preparation factor applied: NA
Sample Concentration units, unless otherwise noted: mg/kg
Associated Samples: 1 to 9

Analyte	Maximum PB[a] (mg/Kg)	Maximum PB[a] (ug/L)	Maximum ICB/CCB[a] (mg/L)	Action Level	1	3	4	5	6	8				
Sb	0.20			1.0	0.652	0.192	0.445	0.224	0.379					
Cr	0.11			0.55										
Ag	0.10			0.50	0.120									
Zn	1.6			8						4.90				

Sample Concentration units, unless otherwise noted: ug/l
Associated Samples: 18

Analyte	Maximum PB[a] (mg/Kg)	Maximum PB[a] (ug/L)	Maximum ICB/CCB[a] (mg/L)	Action Level									
Sb		0.047		0.235									
Ba		0.38		1.90									
Cr		0.092		0.46									
Pb		0.057		0.285									
Mo		0.033		0.165									
Ag		0.021		0.105									
Tl		0.025		0.125									

Samples with analyte concentrations within five times the associated ICB, CCB or PB concentration are listed above with the identifications from the Validation Completeness Worksheet. These sample results were qualified as not detected, "U".
Note : a - The listed analyte concentration is the highest ICB, CCB, or PB detected in the analysis of each element.

LDC #: 39191C4a

VALIDATION FINDINGS WORKSHEET
Field Blanks

Reviewer: ATL
2nd Reviewer: a

METHOD: Trace Metals (EPA SW846 6010B/7000)

Blank units: ug/L **Associated sample units:** mg/kg
Sampling date: 07/18/17 Soil factor applied _____
Field blank type: (circle one) Field Blank / Rinsate / Other: FB Associated Samples: 1 to ~~17~~ 9

Analyte	Blank ID	Sample Identification											
	18	Action Limit											
Ba	2.3	0.0115											
Cr	2.2	0.011											
Mo	1.0	0.005											
Ni	1.6	0.008											
Zn	9.7	0.0485											

CIRCLED RESULTS WERE NOT QUALIFIED. ALL RESULTS NOT CIRCLED WERE QUALIFIED BY THE FOLLOWING STATEMENT:
Samples with analyte concentrations within five times the associated field blank concentration are listed above, these sample results were qualified as not detected, "U".

LDC#: 39191C4a

VALIDATION FINDINGS WORKSHEET
Field Duplicates

Reviewer: ATL
2nd Reviewer: a

METHOD: Metals (EPA Method 6010B/6020A7000)

Analyte	Concentration (mg/kg)		RPD	
	Ss-101 (0-0.5)	7		
Arsenic	3.35	4.48	29	
Barium	24.8	24.8	0	
Cobalt	4.19	6.16	38	
Chromium	19.1	19.7	3	
Copper	13.3	17.8	29	
Lead	5.33	11.2	71	
Molybdenum	0.13 U	0.429	NC	
Nickel	9.80	10.1	3	
Vanadium	21.3	14.5	38	
Zinc	20.3	23.1	13	

V:\FIELD DUPLICATES\Field Duplicates\FD_inorganic\2017\39191C4a.wpd

APPENDIX D – INTEGRAL CONSULTING MEMORANDUM

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Suite 200
San Francisco, CA 94104

telephone: 415.393.4750
www.integral-corp.com

MEMORANDUM

To:	Peter Langtry, Cornerstone Earth Group
From:	Mala Pattanayek and Bridgette DeShields
Date:	October 2, 2017
Subject:	Site-Specific Approach for Arsenic, 3141 Taylor Road, Placer County, CA
Project No.:	C1811

As discussed in the August 28, 2017 Work Plan for Arsenic Bioavailability (Cornerstone Earth Group, 2017), site-specific data collection and a bioavailability study were conducted to evaluate risk associated with arsenic and to develop a site-specific cleanup goal for arsenic at the 3141 Taylor Rd, Placer County, CA site (the site).

Natural background concentrations of arsenic are often well above California's Department of Toxic Substance Control's (DTSC) health-based unrestricted land use screening level of 0.11 mg/kg. However, cleanup of metals in soil to below background levels is not required by DTSC. A two-step process was used to assess arsenic at the site, consistent with DTSC's Human and Ecological Risk Office (HERO) Note 6 (DTSC, 2017). In the first step, available data were used to develop a site-specific background concentration and in the second step, the site-specific bioavailability was assessed. Both of these steps are described below along with a recommendation for the cleanup approach for the site based on these evaluations.

Site-Specific Background Level

Background evaluation was conducted using site arsenic data[1] (n=67; see Table 3 in the Preliminary Endangerment Assessment [PEA] report) in accordance with DTSC guidance titled *Selecting Inorganic Constituents as Chemicals of Potential Concern at Risk Assessments at Hazardous Waste Site and Permitted Facilities* (DTSC 1997) which allows the use of all onsite data in calculations of background levels.

[1] Only the July 2017 data were used as they were analyzed on dry weight basis. The December 2016 data were not included in the background analysis.

The methods used included evaluating the data distribution and identification of multiple populations or potential outliers. A cumulative probability plot was generated for identification of an inflection point and a break in the data and identification of population with the lowest arsenic concentrations (i.e., the background dataset).

Summary statistics were generated for the arsenic dataset (Table A). The data followed a lognormal with a coefficient of variation[2] of 0.65 (Figure 1). Summary statistics were generated and a cumulative probability distribution was generated for the lognormally transformed data (Figure 2).

From the cumulative probability distribution, the inflection point of the data was determined visually to be 17.7 mg/kg. According to the 1997 DTSC guidance, if an inflection point is observed in the dataset, the contiguous population closest to the origin on the cumulative probability plot is identified as the background population and the values above the inflection point are considered anomalous (i.e., not within the background distribution). In this case, the majority population closest to the origin—comprising of concentrations equal to or less than 17.7 mg/kg—was considered representative of the background or ambient population[3]. As reported by the San Francisco Regional Water Board (Duvergé 2011) "when sample sizes are larger and when the cumulative probability plot indicates that the distribution is well defined (i.e., little or no scatter), it is acceptable to select a simple estimate of the 95th or even the 99th percentile. The selection of a representative upper quantile should be guided not by a rigid rule but rather by the characteristics of the available data." The 95th and the 99th percentiles of the background arsenic population were calculated as 16.5 mg/kg and 17.5 mg/kg, respectively (Table 1). Because the background dataset is large (n = 65), the data are considered robust, distribution is well defined, the 99th percentile of 17.5 mg/kg is considered representative of the site-specific background threshold. This is within background levels in California, where 95th and 99th percentiles of background can range from 14 to 42 mg/kg (Diamond et al., 2009).

California Arsenic Bioavailability Assessment Results

Most human health risk assessments assume that arsenic is highly bioavailable (absorbable by the body), likely leading to an overestimate of risk. When arsenic is present in soil, it

[2] The coefficient of variation is the standard deviation divided by the arithmetic mean of the data and is used to assess the magnitude of the variability in the dataset. According to the 1997 CalEPA guidance, if the coefficient of variation is above 1, the data may be representative of more than one population.
[3] Subsequent testing of the background population distribution indicated that the data follow a lognormal distribution (Figure 3.)

associates with other minerals. These associations reduce the solubility of arsenic, thereby reducing the bioavailability of arsenic and resulting toxicity. To address this issue, DTSC developed a method to estimate site-specific relative bioavailability (RBA), the California Arsenic Bioaccessibility (CAB) method (DTSC 2017). The RBA is a ratio that compares the bioavailability of arsenic in soil to that of arsenic in water. A site-specific RBA can replace the default assumption used in risk assessment equations (60%) resulting in a more refined estimate of risk. The site-specific RBA also can be used to develop a health-risk based cleanup goal for arsenic.

Soil samples were collected and analyzed by the CAB method by Prima Environmental, Inc. (Prima) as described in the 2017 Cornerstone Work Plan; the results are provided in Attachment A. The results showed low RBA in the majority of the samples (4.9-7.9%) based on non-detects in the extraction fluid. Only one sample, SS-12D showed higher RBA (70%). The samples with low RBA had relatively low arsenic concentrations in the 250 μm fraction (4.4 to 11 mg/kg), within the range of background. Sample SS-12D had a higher arsenic concentration (71 mg/kg) in the 250 μm fraction (the fraction of the sample analyzed by the CAB). However, the majority of the mass of soil in the bulk samples (see Table 1 of the Attachment A) was in the > 250 μm fraction (80-88%). The lab confirmed (personal communication with Cindy Schreier, Prima) that the bulk samples did not contain many rocks or debris, but had some dirt clods that were not broken up prior to sieving. Cornerstone Earth Group requested that the lab break up the dirt clods and analyze the bulk sample (i.e., non-sieved samples), which resulted in an arsenic concentration of 39 mg/kg, similar to the result from July 2017 of 41.1 mg/kg. It appears that arsenic may be more associated with the finer grained soils at the site.

Recommendations for Site Cleanup Approach

As show in Table 3 in the PEA report, only samples from the vicinity of location SS-12 (B, C, and D) which are in the former orchard area have arsenic concentrations above the site-specific background level of 17.5 mg/kg. It is recommended that soils associated with these locations be considered for a removal action. Based on the CAB assessment results, samples with arsenic above background levels at the site are more bioavailable, which likely reflects anthropogenic sources. Based on the low bioavailability of lower concentration soils and the limited extent of soils with concentrations above background and low bioavailability, removal of soils from the vicinity of location SS-12 should be health-protective for the proposed land use. Furthermore, the site-wide 95 UCL arsenic concentration (Table 5 in the PEA report) is currently 10.5 mg/kg and will be considerably lower and well within background when soils in the vicinity of SS-12 are removed.

References

Cornerstone. 2017. Work Plan for Arsenic Bioavailability, 3141 Taylor Road, Placer County, CA. August 28.

DTSC. 1997. Selecting Inorganic Constituents as Chemicals of Potential Concern at Risk Assessments at Hazardous Waste Sites and Permitted Facilities. Final Policy - Human and Ecological Risk Division. California Environmental Protection Agency, Department of Toxic Substances Control, February.

DTSC. 2017. Human Health Risk Assessment (HHRA) Note Number 6, Recommended Methodology for Evaluating Site-Specific Arsenic Bioavailability in California Soils. Released August 22, 2016. Revised September 29, 2017.

Diamond, D., D. Baskin, D. Brown, L. Lund, J. Najita, and I. Javandel. 2009. Analysis of Background Distributions of Metals in Soil at Lawrence Berkeley National Laboratory. Lawrence Berkeley National Laboratory, Environmental Restoration Program. April.

Duvergé, D.J. 2011. Establishing Background Arsenic in Soil of the Urbanized San Francisco Bay Retention, a SFSU thesis. December.

TABLE

Table A. Arsenic Summary Statistics

Data Group	Sample Size	Detected Samples	FOD	Minimum Detected value	Maximum Detected value	Arithmetic Mean of Detected Values	Standard Deviation of Detected Values	Coefficient of Variation of Detected Values	95th Percentile	99th Percentile
All Data	67	66	99%	1.08	41.1	9.2	5.9	0.65	NA	NA
Background Data	65	65	99%	1.08	17.7	8.5	4.3	0.5	16.5	17.5

Concentrations reported in mg/kg dry weight

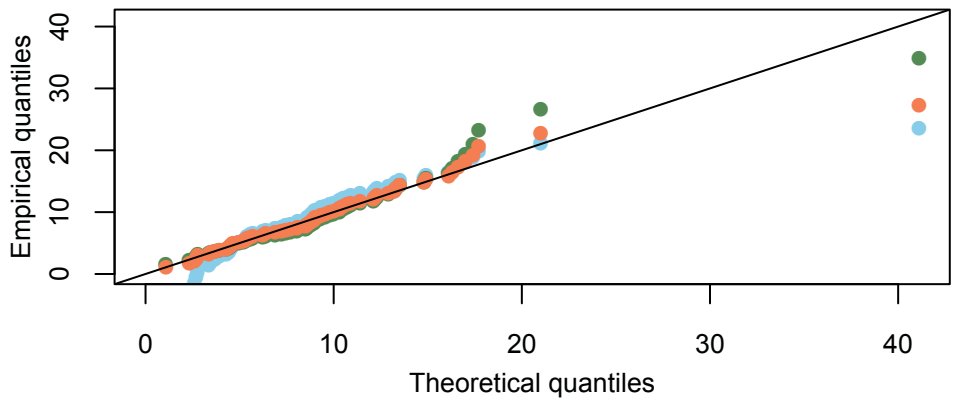
FIGURES

Media:
Soil
Exposure Unit:
Background
Chemical:
Arsenic

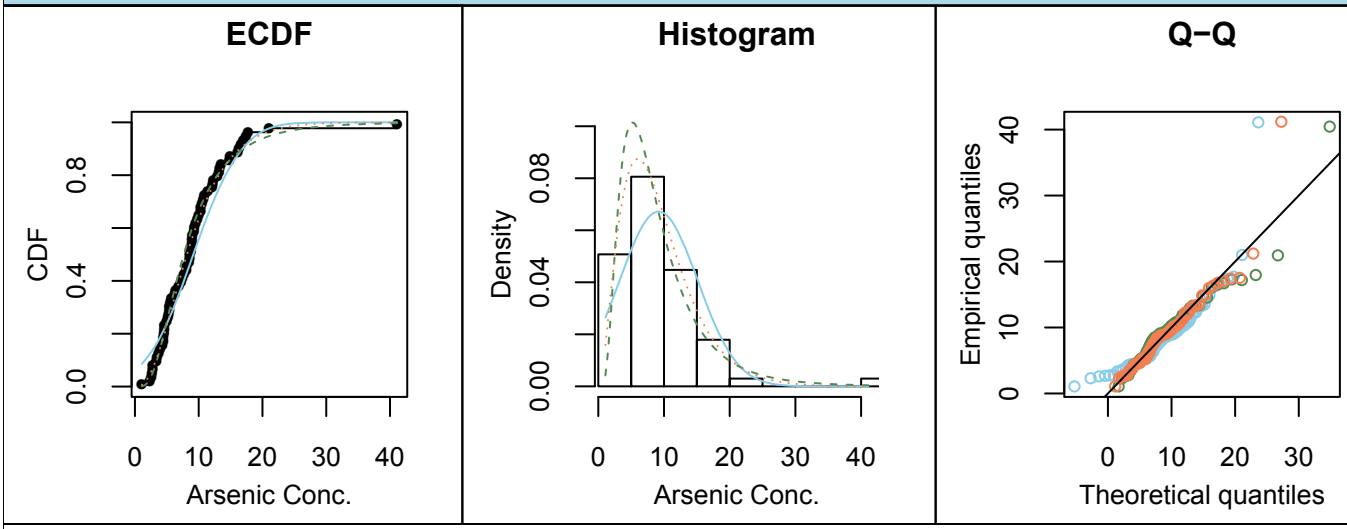
Legend

- Normal
- Lognormal
- Gamma
- Detect
- Nondetect (ROS)

Q−Q Plot (All Data)



ECDF, Histogram & Q−Q (Detects Only)



N = 67	FOD = 100%	Min (detect) = 1 NA	Arithmetic Mean = 9
N (detect) = 67	SD (log detect) = 0.63	Max (detect) = 41 NA	Arithmetic SD = 6

Goodness of Fit (All)

Distribution	S−W (p−value)	Lilliefors (p−value)	K−S (statistic)	K−S (crit val)	A−D (statistic)	A−D (crit val)	AIC	BIC
Normal	0	0.02	−	−	−	−	432.792	437.202
Lognormal	0.31	0.077	−	−	−	−	403.44	407.85
Gamma	−	−	0.06336	0.1101	0.2881	0.7602	403.235	407.644

Goodness of Fit (Detects Only)

All Detects

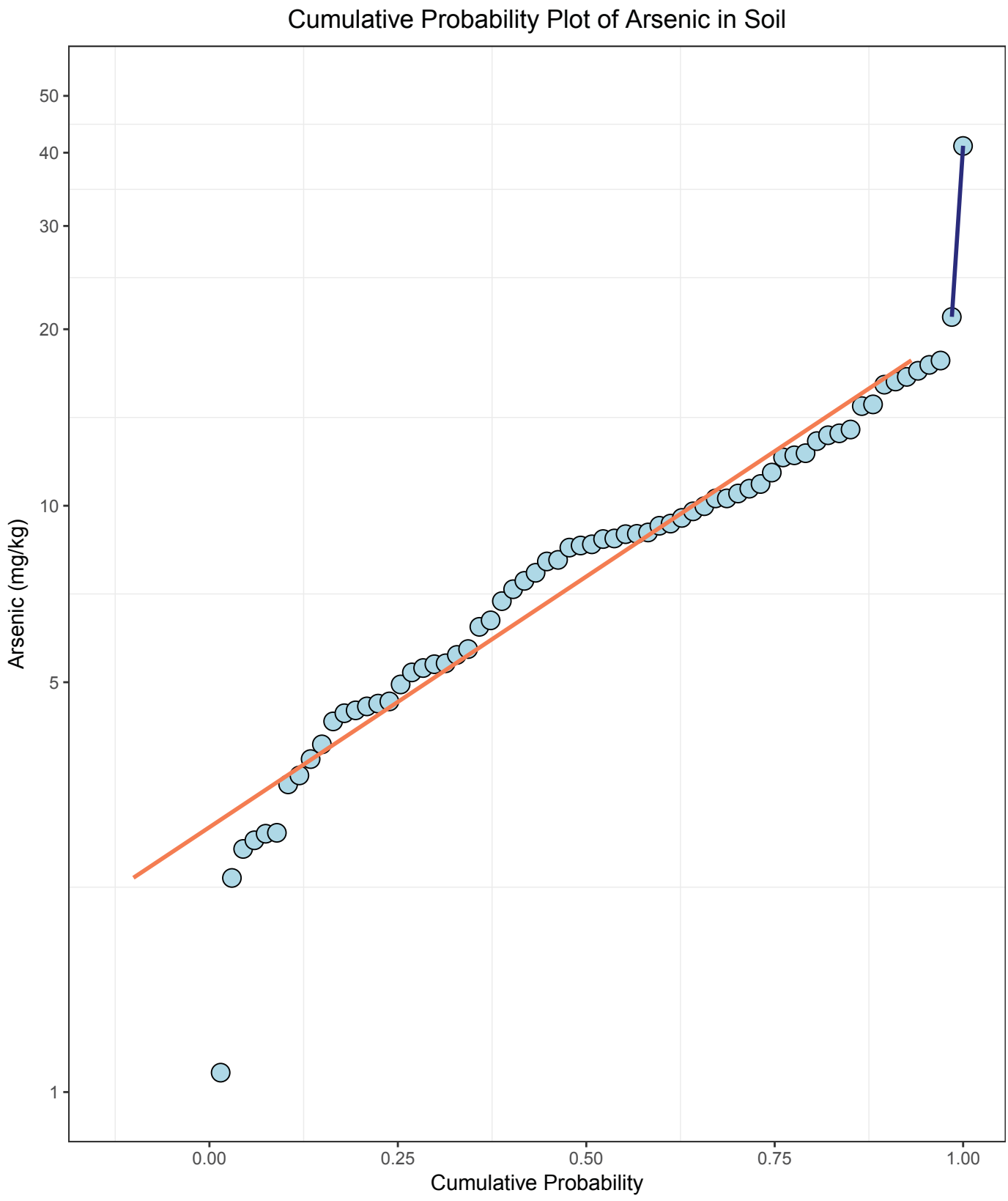
Selected distribution highlighted in green.

Notes:
− = not calculated
A−D = Anderson−Darling
AIC = Akaike information criterion
BIC = Bayesian information criterion
ECDF = empirical cumulative distribution function
FOD = frequency of detection
K−S = Kolmogorov−Smirnov
N = number of samples
Q−Q = quantile−quantile
ROS = Regression on order statistics
S−W = Shapiro−Wilk
SD = standard deviation

Data Summary for Arsenic in Soil − All Depth Intervals

Arsenic Background − 3141 Taylor Road, Placer County, CA

Figure **1**



Notes:
All samples and depths included.

Cumulative Probability Plot of Arsenic in Soil

Arsenic Background – 3141 Taylor Road, Placer County, CA

Figure
2

FINAL RESULTS

September 28, 2017

Peter Langtry
Cornerstone Earth
1270 Springbrook Road, Suite 101
Walnut Creek, CA 94597

RE: IVBA test for Arsenic
Project Name: 3141 Taylor Rd., Loomis, CA
Client Job No. 411-16-3

Dear Mr. Langtry:

PRIMA Environmental, Inc. measured arsenic relative bioaccessibility (RBA) for five soil samples using the California Arsenic Bioaccessibility (CAB) method. Total arsenic was measured on one bulk sample. The procedures and results are described in this letter report.

Sample Receipt and Preparation

The following five samples were received on September 7, 2017:

- SS-3 (0-0.5)
- SS-12D (0-0.5)
- SS-23 (0-0.5)
- SS-43 (0-0.5)
- BG-1 (0.1-1)

Each sample was air-dried, then sieved (hand shaken) to obtain the -250 µm (-60 mesh) fraction. No effort was made to break up dirt clods, if present. **Table 1** (attached) lists the amount of material for each size fraction.

After sieving, Cornerstone requested total arsenic on the bulk SS-12D (0-0.5) sample. Because the entire sample had been sieved, a "bulk sample" was recreated by combining 87 g of +250 µm fraction and 13 g of -250 µm fraction (the ratio of the two size fractions –see **Table 1**).

Materials

ACS reagent grade sodium chloride (NaCl), reagent grade ascorbic acid, and porcine pepsin obtained from Sigma Aldrich (www.sigmaaldrich.com, catalog number P7000) were used in this study.

Procedures

CAB. Gastric phase IVBA tests were performed using the method recommended by the California Department of Toxic Substance Control (DTSC). Gastric solution was prepared by dissolving reagents (NaCl, ascorbic acid, and pepsin) in deionized water, then adjusting the pH to 1.5±0.01. Each sample was extracted by adding 150 ± 1 mL of gastric solution to 1.00 g soil (-250 μm fraction), then mixing end-over-end in a 37°C water bath for 120 minutes. After 120 minutes, the final pH of each sample was measured then the gastric solution was filtered through 0.45 μm filter and submitted to Enthalpy Analytical (formerly Curtis &Tompkins, Berkeley, California) for analysis of arsenic. QC samples – a reagent blank, a process control, a duplicate and a laboratory control sample (NIST 2711a soil) – were also run. Aliquots of the -250 μm fraction of soil were also submitted to Enthalpy Analytical for analysis of arsenic.

Total Arsenic. Total arsenic on re-constituted bulk sample SS-12D (0-0.5) was analyzed by Enthalpy Analytical.

Results

CAB. The final pH of all samples was within 0.1 pH units of the initial pH, as required by the method. The concentration of arsenic in gastric solution and in the unextracted (-250 μm fraction) soil, as well as the corresponding bioaccessibility and RBA values, are given in **Table 2** (attached). The *California Arsenic Bioaccessibility (CAB)* is given in terms of percent (**Eqn. 1**), and as the mass of soluble metal per mass of soil (**Eqn. 2**). RBA was calculated from the CAB value (expressed as a percent) according to Eqn. 3 as specified in DTSC HHRA Note 6 released August 22, 2016. The QC results are given in **Table 3** (attached). PRIMA's blank spike was outside of limits, but all other QC parameters were within limits, therefore data are accepted.

$$\text{CAB (\%)} = 100 \times \frac{\text{(concentration in extract, mg/L)} * \text{(volume extract, L)}}{\text{(concentration in soil, mg/kg)} * \text{(mass of soil, kg)}} \qquad \text{Eqn. 1}$$

$$\text{CAB (mg As/kg soil)} = \frac{\text{(concentration in extract, mg/L)} * \text{(volume extract, L)}}{\text{(mass of soil, kg)}} \qquad \text{Eqn. 2}$$

$$\text{RBA (\%)} = 0.82 * \text{CAB (\%)} + 2.92 \qquad \text{Eqn. 3}$$

Total Arsenic. The concentration of total arsenic in-reconstituted bulk sample SS-12D (0-0.) was 39 mg/kg.

If you have any questions, please give me a call at 916-939-7300. Thank you for the opportunity to be of service.

Sincerely,
PRIMA Environmental, Inc.

Cindy G. Schreier, Ph.D.
President & Chief Scientist

Attachments

Table 1. Size Fraction Results.

Sample	Mass, g		Percent	
	Less than 250 µm	Greater than 250 µm	Less than 250 µm	Greater than 250 µm
SS-3 (0-0.5)	150	1,120	12	88
SS-12D (0-0.5)	104	680	13	87
SS-23 (0-0.5)	170	850	17	83
SS-43 (0-0.5)	250	1,010	20	80
BG-1 (0.5-1)	240	1,190	17	83

Note: Data are estimates. Soil was air-dried, then sieved by hand. Dirt clods, if present, were not broken up.

Table 2. Results of CAB Tests.

Sample	Mass Extracted	Concentration		Bioaccessibility		RBA^
		Soil**	Extraction Fluid			
	g	mg/kg	mg/L^^	%	mg As/kg soil	%
SS-3 (0-0.5)	1.0160	11	< 0.0018	< 2.4	< 0.027	< 4.9
SS-12D (0-0.5)	1.0128	71	0.39	81	58	70
SS-23 (0-0.5)	1.0227	8.6	< 0.0018	< 3.1	< 0.026	< 5.4
SS-43 (0-0.5)	1.0126	9.4	< 0.0018	< 2.8	< 0.027	< 5.2
SS-43 (0-0.5) - Dup*	1.0102	4.4	< 0.0018	< 6.1	< 0.027	< 7.9
BG-1 (0.5-1)	1.0209	4.4	< 0.0018	< 6.0	< 0.026	< 7.8

* "Dup" indicates a duplicate extraction; the soil was extracted twice, but arsenic in the soil was analyzed once.

** concentration in <60 mesh (250 micron) fraction.

^ Relative bioavailability = 0.82 * Bioaccessibility (in %) + 2.92, per DTSC HHRA Note 6.

^^Results reported to the MDL.

Table 3. QC Data for IVBA Tests.

Sample ID	Conc. mg/L#	Spike	% Recovery	IVBA* %	RPD	Limits
Reagent Blank	< 0.0018	--	--	--	--	< 0.02 mg/L
Process Control	< 0.0018	--	--	--	--	< 0.02 mg/L
LCS (NIST 2711a)	0.58	--	--	79	--	IVBA = 54-80%
Blank Spike (PRIMA)	1.3	1.0	130**	--	--	80-120% recovery
Blank Spike (Enthalpy)	0.09	0.100	94	--	--	76-120% recovery
Matrix Spike (Enthalpy)	0.217^	0.2	109	--	--	53-139% recovery
SS-43 and SS-43-Dup	see results Table	--	--	--	n.a.^^	--

* Assumes Arsenic concentration in NIST 2711a is 107 mg/kg, per certificate of analysis.

** Recovery high. All other QC within acceptable limits, so data are accepted.

^ Concentration in unspiked sample < 0.001784 mg/L.

^^ Not applicable because analyte not detected.

Reported to method detection limit.

Integral Consulting Inc.
115 Sansome Street
Suite 200
San Francisco, CA 94104

telephone: 415.393.4750
www.integral-corp.com

MEMORANDUM

To:	Peter Langtry, Cornerstone Earth Group
From:	Mala Pattanayek and Bridgette DeShields
Date:	October 31, 2017
Subject:	Site-Specific Approach for Arsenic, 3141 Taylor Road, Placer County, CA
Project No.:	C1811

A response to California's Department of Toxic Substance Control's (DTSC) comment received on October 26, 2017 on development of the site-specific background concentration for arsenic at the 3141 Taylor Rd, Placer County, CA site (memo submitted to DTSC on October 6, 2017) is provided below.

DTSC requested the arsenic background analysis be conducted in accordance with the most recent technical guidance titled *Arsenic Strategies – Determination of Arsenic Remediation – Development of Arsenic Cleanup Goals* (DTSC 2009). The guidance states that one of two methods can be used to develop arsenic background screening values 1) graphical evaluation or 2) statistical evaluation. For this site, we used the graphical evaluation method, the approach described in *Selecting Inorganic Constituents as Chemicals of Potential Concern at Hazardous Waste Sites and Permitted Facilities* (DTSC 1997), and evaluated arsenic soil data for normality and log normality using box and whisker plots and two goodness of fit test statistics, the Shapiro-Wilks and Lilliefors statistics.

In the report, a goodness of fit testing was conducted with all data (see Page 1 of the Attachment 1). The data do not follow a normal distribution (both Shapiro-Wilks and Lilliefors p-values are <0.05). The data were then log-transformed and tested again. The data appear to follow a lognormal distribution (both Shapiro-Wilks and Lilliefors p-values are >0.05).

Outliers to the lognormally transformed data were identified using graphical visualization (box-and-whisker plots) as plotted on Page 2 of Attachment 1 (as a comparison, a box-and-whisker plot using normal data is also presented on Page 2). Similar to the 4th spread analysis, an outlier assessment using Tukey's interquartile range (IQR) approach was used

for this dataset. Lower outliers were identified as any value less than the 25th percentile minus 1.5 x IQR, where the IQR is the range between the 75th percentile and the 25th percentile. Upper outliers were identified as values greater than the 75th percentile plus 1.5 x IQR (Tukey 1977, Sim et al. 2005) (25th percentile - 1.5 × IQR to 75th percentile + 1.5 × IQR). Only one low-end outlier was observed (SS-48@0-0.5; 1.08 mg/kg arsenic).

A log-transformed cumulative probability plot was recreated for the updated graphical evaluation by removing the single lower outlier (SS-48@0-0.5; 1.08 mg/kg arsenic) from the dataset and presented on Page 3 of Attachment 1. The plot on Page 3 indicates the inflection point in the data is the same as that in the original plot (Page 1), that is at 17.7 mg/kg. The 95th and the 99th percentiles of the background arsenic population without the single lower outlier were calculated as 16.6 mg/kg and 17.5 mg/kg, respectively (Table 1).

References

DTSC. 1997. Selecting Inorganic Constituents as Chemicals of Potential Concern at Risk Assessments at Hazardous Waste Sites and Permitted Facilities. Final Policy - Human and Ecological Risk Division. California Environmental Protection Agency, Department of Toxic Substances Control, February.

DTSC. 2009. Arsenic Strategies – Determination of Arsenic Remediation – Development of Arsenic Cleanup Goals. - Human and Ecological Risk Division. California Environmental Protection Agency, Department of Toxic Substances Control, June.

Sim, C.H., F.F. Gan, and T.C. Chang. 2005. Outlier Labeling with Boxplot Procedures. Journal of the American Statistical Association. 100:470 pp. 642-562

Tukey, J. 1977. Exploratory data analysis. Addison-Wesley, Reading, MA. pp. 43-44.

Table 1. Arsenic Summary Statistics All Data and Excluding Single Lower Outlier

Data Group	Sample Size	Detected Samples	FOD	Minimum Detected value	Maximum Detected value	Arithmetic Mean of Detected Values	Standard Deviation of Detected Values	Coefficient of Variation of Detected Values	95th Percentile	99th Percentile
All Data	67	66	99%	1.08	41.1	9.2	5.9	0.65	NA	NA
Background Data	64	63	99%	2.32	17.7	8.6	4.2	0.48	16.6	17.5

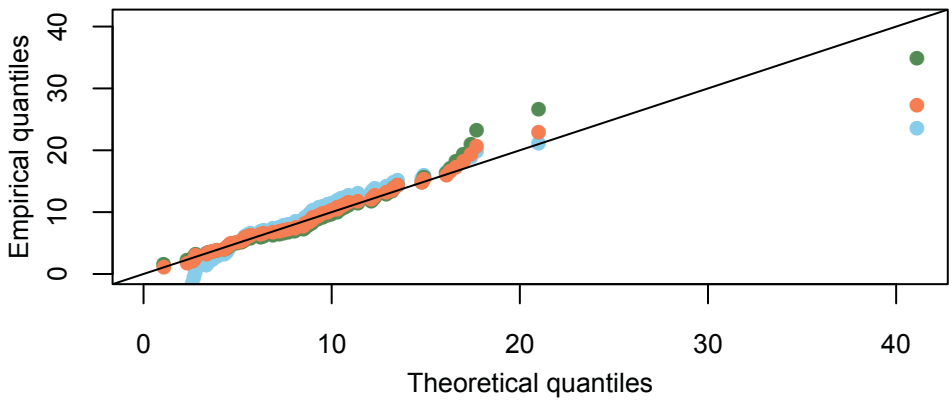
Concentrations reported in mg/kg dry weight

Media:
Soil
Exposure Unit:
Background
Chemical:
Arsenic

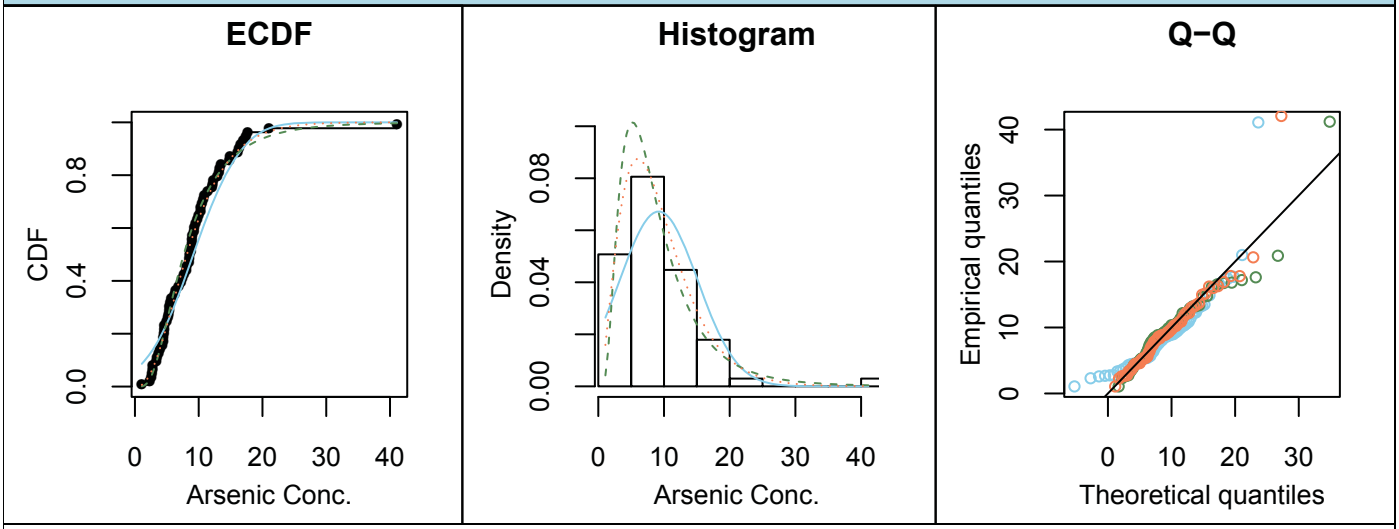
Legend

- Normal
- Lognormal
- Gamma
- Detect
- Nondetect (ROS)

Q−Q Plot (All Data)



ECDF, Histogram & Q−Q (Detects Only)



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Goodness of Fit (Detects Only)

All Detects

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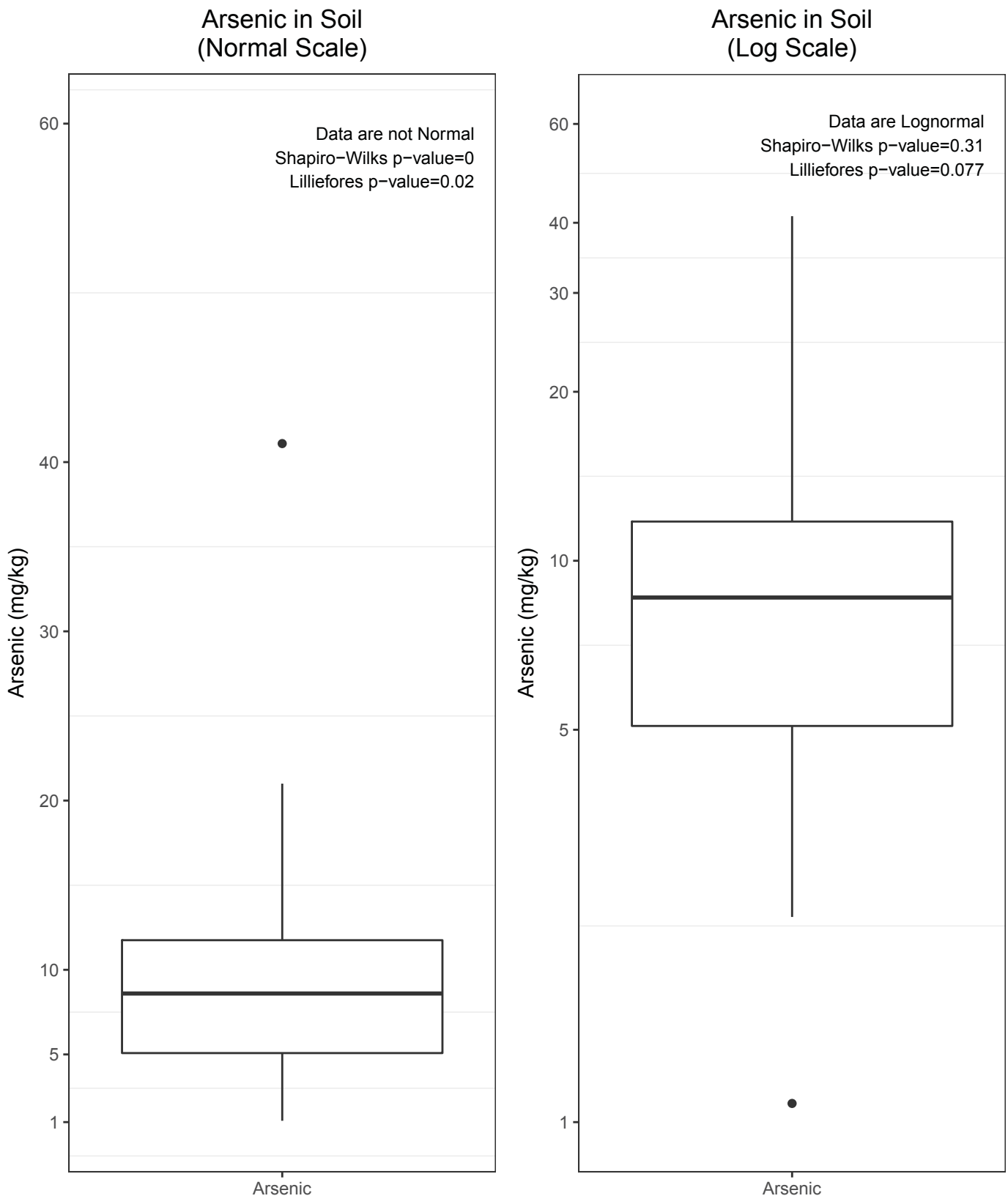
ROS = Regression on order statistics
S−W = Shapiro−Wilk
SD = standard deviation

DRAFT

Data Summary for Arsenic in Soil − All Depth Intervals

Arsenic Background − 3141 Taylor Road, Placer County, CA

Figure
1

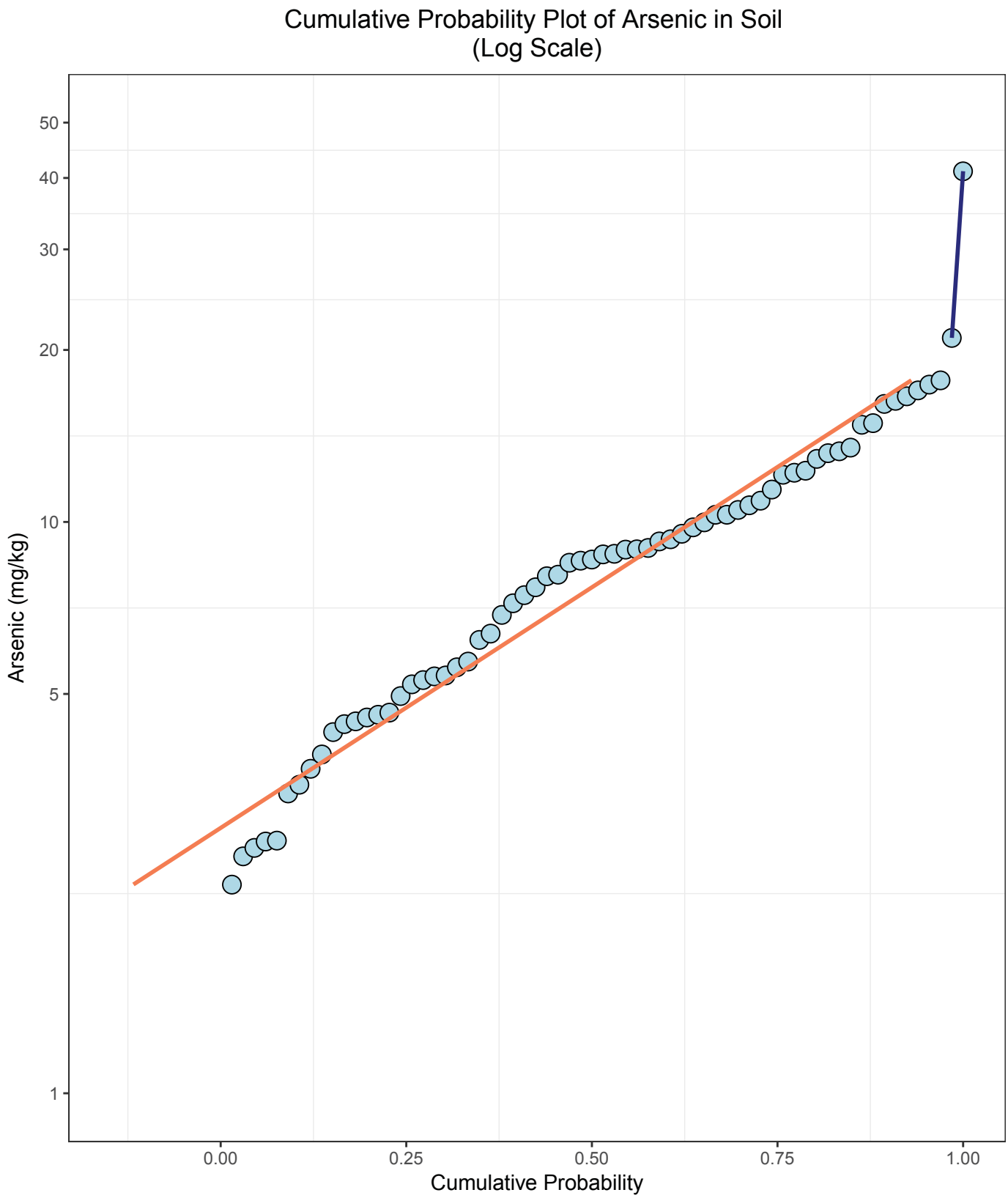


Notes:
Solid points indicate potential outliers.
Outliers are defined as values less than (25th quantile − 1.5 x inner−quartile range [IQR]) or greater than (75th quantile + 1.5 x IQR).

Boxplot and Outlier Test for Arsenic in Soil

Arsenic Background − 3141 Taylor Road, Placer County, CA

Figure
2



Notes:
Low−end outlier removed at SS−48 (0−0.5); 1.08 mg/kg arsenic.

Cumulative Probability Plot of Arsenic in Soil

Arsenic Background − 3141 Taylor Road, Placer County, CA

Figure
3