



**Geotechnical \* Environmental \* Materials Engineering**

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Providing Services in the United States and Internationally URL: [WWW.GTIAZ.COM](http://WWW.GTIAZ.COM)

LIMITED PHASE II STUDY FOR THE  
**CENTRAL FOOTHILLS NORTH  
DEVELOPMENT**

located at 25401 North Central Avenue  
Phoenix, Maricopa County, Arizona 85215.

October 3, 2019

GTI PROJECT NO. 195615E



Prepared by:

**Geotechnical Testing & Inspections (GTI)**

7650 East Redfield Road, Suite "D-7"

Scottsdale, Arizona 85260

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Prepared for:

**K. Hovnanian Great Western Homes Arizona, LLC**

20830 North Tatum Blvd #250

Scottsdale, Arizona 85250



October 3, 2019

GTI Project No. 195615E

To: **K. Hovnanian Great Western Homes Arizona, LLC**  
20830 North Tatum Blvd #250  
Scottsdale, Arizona 85250

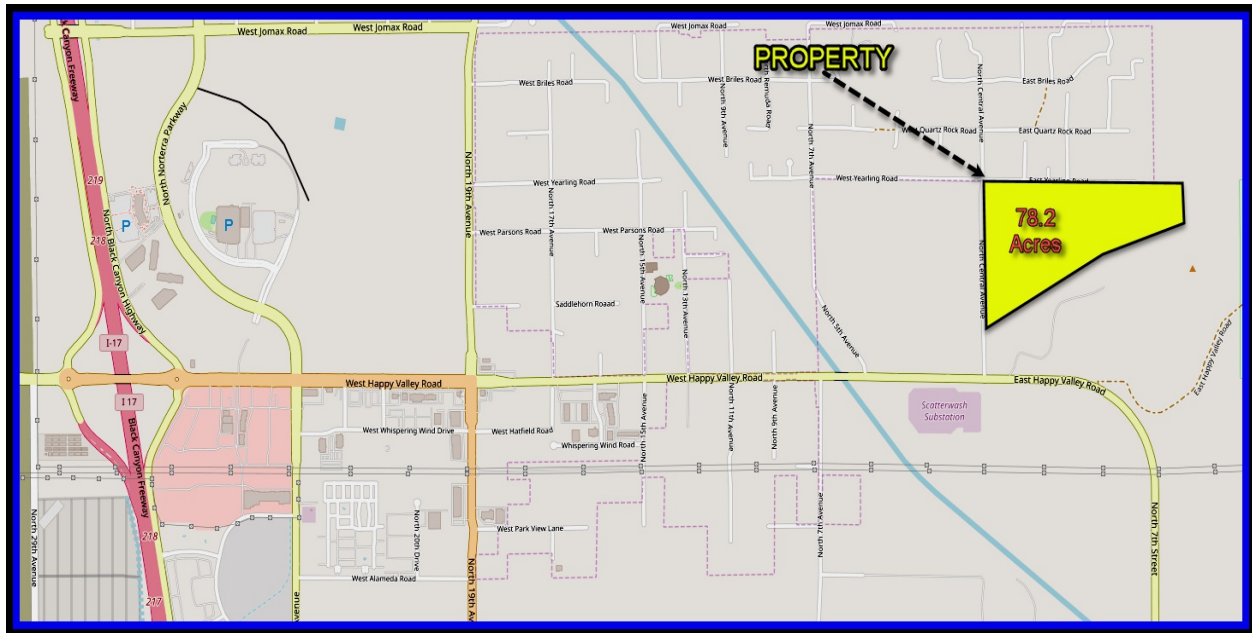


Attention: Mr. Chuck Chisholm  
Land Development Manager

Subject: Limited Phase II Site Study for the **Central Foothills North Development** located at 25401 North Central Avenue in Phoenix, Maricopa County, Arizona 85215.

Dear Mr. Chisholm,

In accordance with your request and authorization, Geotechnical Testing and Inspections (GTI) has completed the Limited Phase II Study for the Central Foothills North Development located at 25401 North Central Avenue in Phoenix, Maricopa County, Arizona. A general site vicinity map is shown in Figure 1.



*Figure 1 - Property Location and General Vicinity Map*

## 1.0 BACKGROUND INFORMATION

The 78.2+ Acre Property known as **CENTRAL FOOTHILLS NORTH**, is located at 25401 North Central Avenue, Phoenix, Maricopa County, Arizona 85215. The Property is undeveloped desert land with typical desert type vegetation.

Limited Phase II Study

**CENTRAL FOOTHILLS NORTH DEVELOPMENT**

**K. Hovnanian Great Western Homes Arizona, LLC**

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According to the Maricopa County Assessor's Map, the Property consists of 78.2± Acres out of the 160± Acres located within the following parcel:

- **210-14-050A** (160± Acres) - Property is {*Registered to Patricia Archie Foundation LLC.*}

Historical aerial photographs indicate that the Property was undeveloped desert land as far back as 1940, the earliest available historical aerial photograph. The southern portion of the Parcel contained the former *Universal Propulsion Company (UPCO)* which has had numerous environmental issues.

The *Universal Propulsion Company (UPCO)* is a B.F. Goodrich Aerospace Company which owned the entire 160± Acre Parcel which has been identified on the Arizona Department of Environmental Quality (ADEQ) web-site.

The UPCO facility designed and manufactured components for military aircrafts. It consisted of several operational areas for manufacturing, assembling, testing and storing of energetic materials, and for the treatment of discarded wastes. Contaminated soils at four (4) locations, outside of the Property, was excavated and covers were installed to prevent future contamination migrations. A network of wells have been installed downgradient of the UPCO facility, along with at least twelve (12) private domestic wells north of the facility. The wells are sampled semiannually for Perchlorate a Volatile Organic Compound (VOC). Construction of a groundwater treatment system is anticipated to be completed by September of 2019.

Discovery of contamination at the parcel was identified in December of 2003. The UPCO operations occurred along the southern portion of the entire 160± Acre Parcel. There **were no** operational activities of any kind located within the 78.3± Acre Property which is under consideration for residential development by **K. Hovnanian Great Western Homes Arizona, LLC (Client)**. The following Contaminants have been identified, within the soil and groundwater of the *Universal Propulsion Company (UPCO)* operational parcel, located south of the Property.

- *Perchlorate*
- *Volatile Organic Compounds (VOCs)*
- *TCE, 1,4-Dioxane, and*
- *Heavy metals (lead and arsenic)*

The Arizona Department of Environmental Quality (ADEQ) states that with regard to the soils, south of the Property:

*“There is little to no health risk unless there is contact with skin or ingestion of the contaminated soils.”*





ADEQ states that with regard to the groundwater south of the Property:

*“there is little to no risk of impact from accedence because the water is filtered thorough the public water system for both residential and business use”.*

More recent testing at the former UFCO site was determined to only contain Perchlorate contamination.

### **1.1 Reviewed Reports Provided by Client or Available in GTI’s Library**

As part of GTI’s original Phase I Environmental Site Assessment, GTI reviewed historical reports provided to GTI by the Client or available in GTI’s library. The following reports were reviewed:

- **November 2, 2004 - Health Consultation for the Universal Propulsion Company -** Report prepared by U.S. Department of Health and Human Services (ADHS). They concluded the following: *“As of March 2004, site contaminants have not been detected in adjacent private drinking-water well. The use of these wells poses no public health hazard at this time”.*
- **April 2010 - Attachment “A” to the AZ HWMA Permit No. AZD 980 814 479.** This report provided general information about the UFCO Property. The report indicates that depth to groundwater ranges from 150± to 250± feet below the existing ground surface. Regional groundwater flow direction in the vicinity is generally considered to be in a southwest direction, away from the Property. The report has a map which shows the entire 160± Acre Parcel and the areas of UFCO operations. Figure 2 Shows a portion of this map.
- **July 2012 - Updated Groundwater Monitoring Plan -** Report prepared by **Arcadis-US, Inc.**, as their Project No. 3994003. The report provides details on their sampling procedures and results of chemicals in soil and groundwater. **None of the wells located on the 78.2± Acres Property had any Perchlorate concentrations of any concern.**
- **March 1, 2016 - 2015 Annual Monitoring Report -** The report was prepared by Arcadis as their Job No. 03994018.0010. The report was prepared for **UTC Aerospace Systems.** The report concluded the following:

*“ This report summarizes the monitoring activities conducted in 2015 at the former Universal Propulsion Company, Inc. The primary objective of groundwater monitoring is to obtain data to assess groundwater conditions at and near the former UPCO facility.”*

*“The original objective of soil vapor monitoring was to monitor the vertical distribution of Constituents of Potential Concern (COPCs) in soil gas beneath the suspected Volatile Organic Compound (VOC) source are in the former B-Complex area.”*

*“ UPCO will request that soil vapor monitoring at the site be discontinued because VOCs have consistently been measured at low concentrations within the nested soil vapor monitoring well.” “ Since 2008, only low levels of VOC have been detected in each well screen interval”.*



Figure 2 - Map showing Property and Areas of UPCO operations

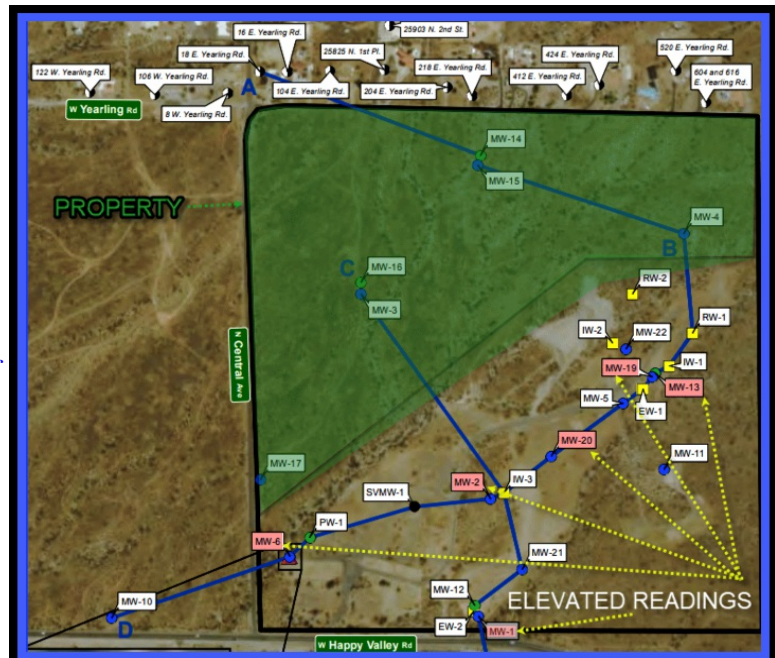


Figure 3 - Location of Wells - Red Highlighted Wells Had Concentrations above Clean up Levels

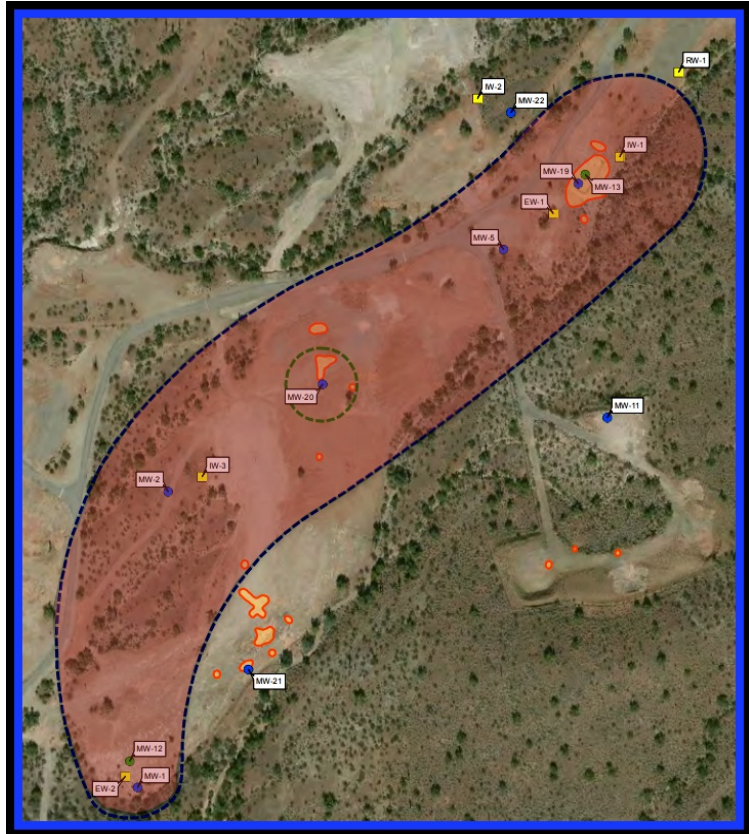


Figure 3, shows the location of the Property {78.2± Acres} and some of the wells placed at the Property and south of the Property. The wells highlighted in red, all located down-gradient of the Property, had Perchlorate concentrations above the Arizona Health-Based Guidance Level (HBGL). Figure 4 shows the contamination plume south of the Property.

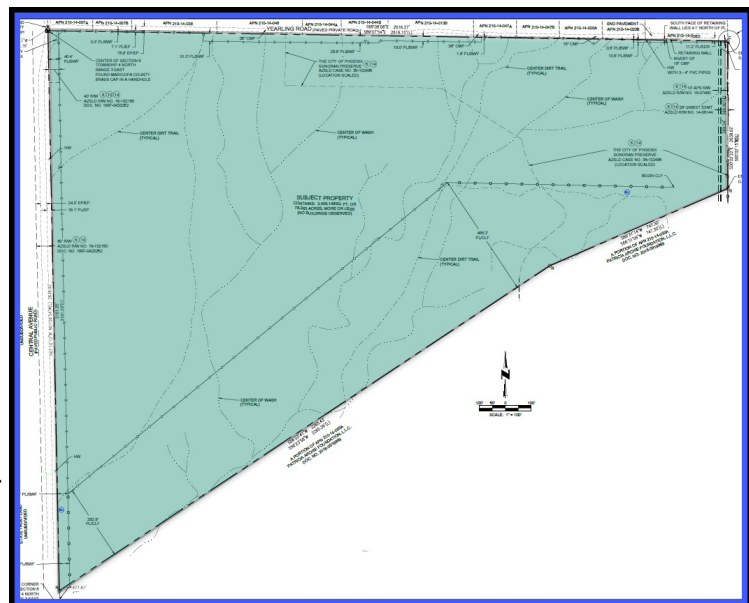
None of the groundwater monitoring wells, located at the Property, had any concentrations above the Arizona Health-Based Guidance Level (HBGL).

Most of the concentrations were found to be less than 3.0 ug/L, which is much lower than the Arizona Health-Based Guidance Level for Perchlorate in drinking water of 14 ug/L.

- **January 28, 2019 - ALTA Survey** - The survey was prepared by Coe & Van Loo Consultants as their Project No. 1-01-03317-01. The survey shows the Property and some of the existing dirt roadways and washes. Figure 5, shows a portion of this Site Plan.



*Figure 4 - Zone of Elevated Perchlorate Concentrations  
{South of the Property}*



*Figure 5 - ALTA Survey Provided by Client Prepared by Coe & Van Loo Consultants*



- **January 30, 2019 - Phase I Environmental Site Assessment for the Central Foothills North** - The report was prepared by ProTeX as their Job No. 8658. The report was prepared for K. Hovnanian Great Western Homes Arizona, LLC. The report concluded the following:

*“ This ESA has revealed the following Recognized Environmental Conditions (RECs), ProTeX has identified a potential for vapor migration issues in relation to the Site. The responsible parties (RP) have been identified in regards to the source (s) of contamination, and remedial activities are on-going. This ESA has revealed no additional RECs, historical RECs (HREC), or controlled RECs (CREC) in relation to the Site”.*

*“ Because the Site is adjacent to the known groundwater contamination plume boundaries of the Universal Jet Propulsion facility, and immediately adjacent to contaminated soils, VEC cannot be ruled out at the subject property.”*

## **1.2 Opinion based on historical testing completed at the Property**

Based on the review of available information, the Limited Vapor Encroachment Condition Study and GTI's experience with the Property and vicinity, GTI concludes that the activities conducted by UPCO, *south of the Property*, did **not** result in a VEC or REC to the Property. GTI's conclusions are based on the following facts:

- *Responsible parties have been identified by the Arizona Department of Environmental Quality (ADEQ) and numerous environmental investigations and soil and groundwater testing have been conducted by others. Activities at the Property {within the 78.2± Acres} have **not** contributed to any soil or groundwater contamination.*
- *Remediation operations of soil, south of the Property, were conducted in the past and groundwater remediation is currently on-going.*
- *Elevated Perchlorate Concentrations were only detected **south** of the Property and the contamination plume never extended under the Property.*
- *Results of chemical testing on groundwater wells and gas surveys at the Property and within the private wells located north of the Property indicated Perchlorate concentrations of less than 3.0 ug/L, which is far less than the Arizona Health-Based Guidance Level (HBGL) for Perchlorate in drinking water of 14 ug/L.*



- *In general, groundwater has been determined to be flowing in a southwesterly direction, which is cross-gradient to downgradient of the Property, and therefore most groundwater contamination would flow away from the Property. For contaminated sites located hydrologically downgradient to cross-gradient of the Property, the Area of Concern (AOC) has been established at 100± to 300± feet from the edge of a contaminated plume. As the Property is located more than 800+ feet from the contamination plume, this condition does not result in a VEC or REC to the Property. In addition, the newly constructed groundwater treatment facility would direct groundwater towards the new wells and ensure that groundwater will flow away from the Property.*
- *The U.S. Department of Health and Human Services (ADHS), indicated that “As of March 2004, site contaminants have not been detected in adjacent private drinking-water well. The use of these wells poses **no** public health hazard at this time”*
- *The results of the 2015 Annual Groundwater Monitoring Report indicated “UPCO will request that soil vapor monitoring at the site be discontinued because VOCs have consistently been measured at low concentrations within the nested soil vapor monitoring well.” and “Since 2008, only low levels of VOC have been detected in each well screen interval”.*
- *GTI conducted a Limited Vapor Encroachment Condition (VEC) study. The results show that the likelihood of any vapor encroachment to the Property from the UPCO operations conducted south of the Property is very low. The contaminated plume is located more than 800± feet south of the Property boundary. Contaminated Plumes which are located more than 100+ feet downgradient from the Property or 300± feet cross-gradient of the Property are not considered to be a VEC to the Property. In addition, the depth to groundwater is more than 200± feet below the existing ground surface, therefore, GTI believes that a VEC at this Property can be ruled out and therefore there is no REC at this Property.*

From the research and analysis of past documented work and files reviewed at the Arizona Department of Environmental Quality it was determined that the *Universal Propulsion Company (UPCO)* facility and past uses did not **negatively impacted the residential area** being proposed by **K. Hovnanian Homes**.



## **2.0 LIMITED PHASE II STUDY**

GTI understands that many of the surrounding neighbors had concerns with regards to the historical uses of the land and the environmental impact the proposed residential development could have on the Property and the neighboring properties.

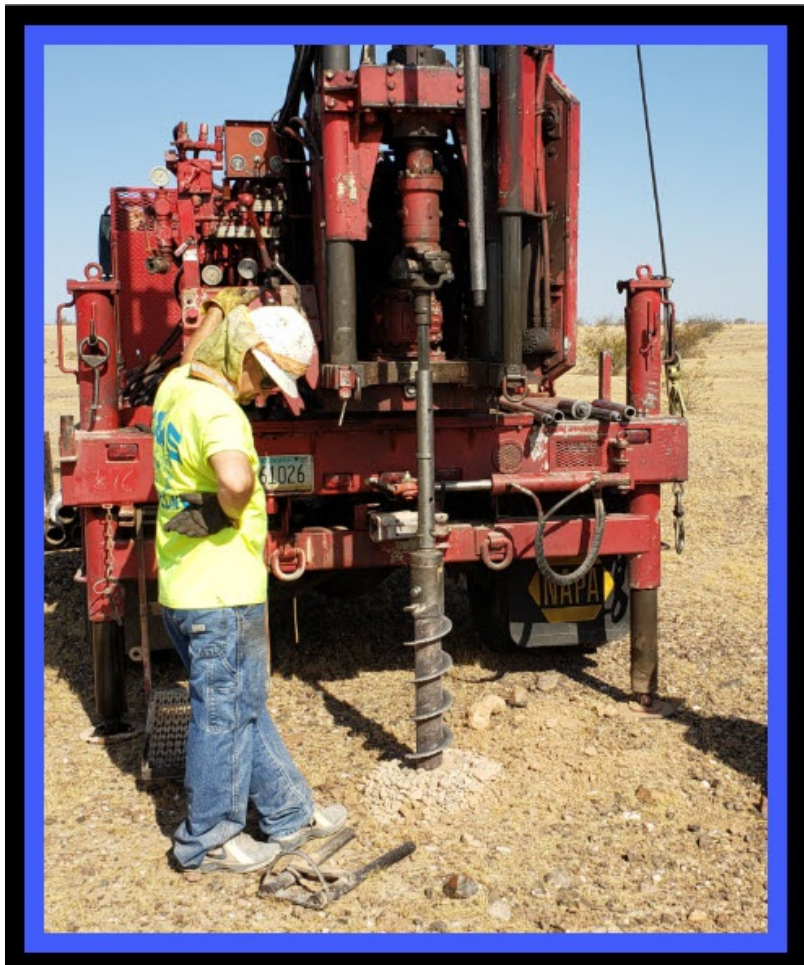
Due to these concerns the Arizona Department of Environmental Quality (ADEQ) as well as K. Hovnanian Homes requested additional testing to be conducted at the Property in order to confirm weather or not any soil contamination, above the Arizona Soil Remediation Levels (SRLs) exists within the soils of the Property.

GTI utilized a CME-75 power drill rig to drill ten (10) soil borings at random locations across the **CENTRAL FOOTHILLS NORTH DEVELOPMENT** and obtain soil samples at varying depths to determine if any contamination exists. Figure 6 Shows a photograph of the drilling operations at the Property.

### **2.1 Soil Sampling**

GTI obtained a total of twenty (20) soil samples of the underlying soils from the ten (10) soil test boring locations. The samples were taken at varying depths from 2± feet to 15± feet below the existing ground surface.

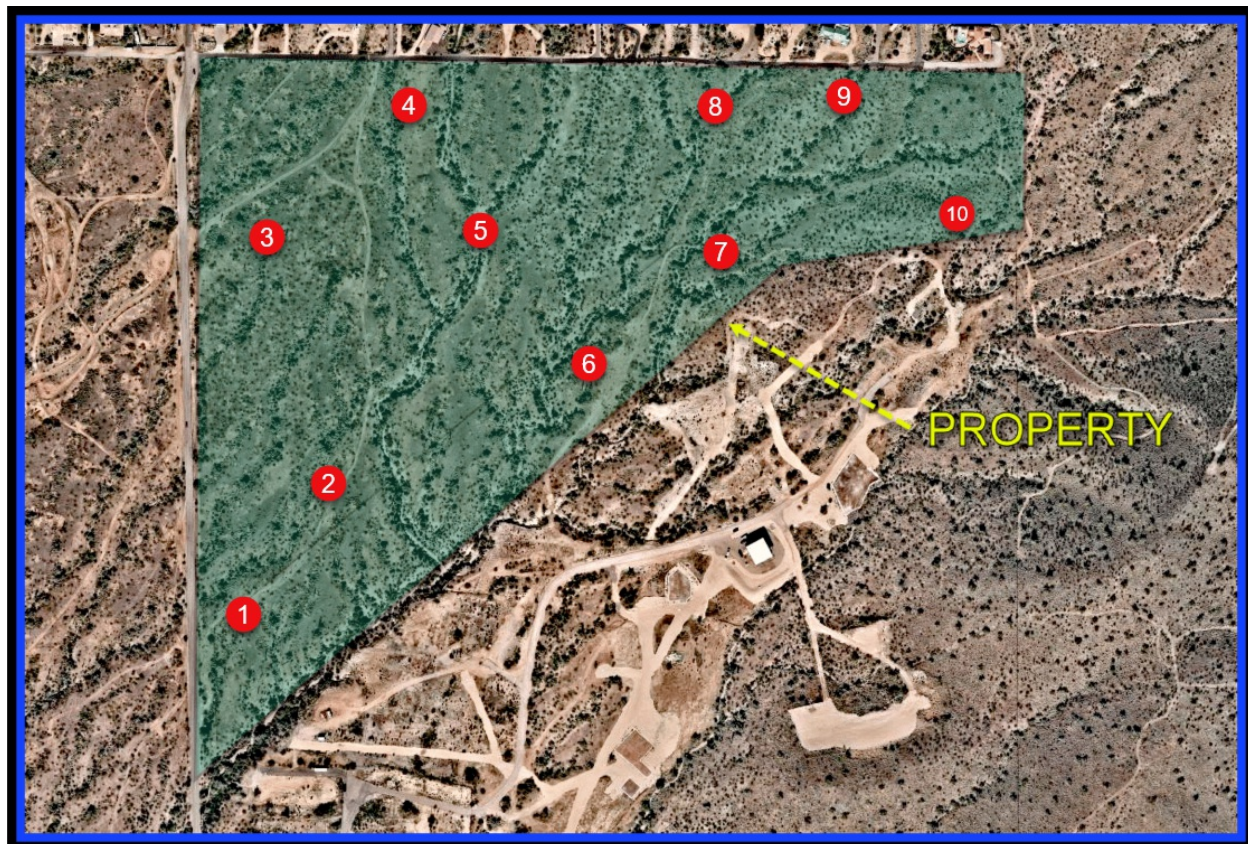
An experienced GTI environmental professional conducted the soil sampling on September 18, 2019.



*Figure 6 - Photograph of the Drilling Operations*

Soil sampling was conducted in general accordance with EPA protocols. The field and chemical testing procedures along with the results of the laboratory testing as well as GTI's analysis and recommendations are described in detail below.

A sketch of the Property and the approximate soil test boring locations is shown on Figure 7.



*Figure 7: Aerial Photograph Showing Boring Locations*

## **2.2 Site Safety & Health Plan**

In accordance with OSHA regulations, a site-specific Safety and Health Plan (SHP) was prepared for all work performed at the Property. The SHP was prepared by Dr. Peter Fleming, P.E. and was reviewed by the field staff, prior to starting work.

## **2.3 Decontamination**

The sampling equipment was thoroughly decontaminated by a three-stage decontamination process, as described below.



In order to prevent cross-contamination, all the tools used for excavating and sampling were washed with a mild solution of Tri-Sodium Phosphate (TSP), rinsed with clean tap water, and finally rinsed with distilled water. A photograph showing the decontamination buckets is shown on Figure 8. The representative soil samples were obtained by wearing dedicated latex gloves.



*Figure 8 - Photograph of Decontamination Buckets*

The samples were immediately sealed, labeled, placed in a chilled ice chest at 4° Centigrade and delivered to an Arizona Department of Health Services Certified Laboratory (TestAmerica in Tempe, Arizona), accompanied by a Chain of Custody Record.

All soil sampling activities were under the direct supervision of a GTI project manager, with environmental experience.

## **2.4 Laboratory Test Results**

The soil samples were transported to an Arizona Department of Health Services certified laboratory for chemical testing. The soil samples were tested for RCRA Metals using EPA Method 6010C and for Perchlorate in accordance with EPA Method 314. The samples were analyzed to determine if the above listed contaminants were present at or above the Residential and Non-Residential Soil Remediation Level's (SRL's) as established by the Arizona Department of Environmental Quality (ADEQ). The laboratory test results are summarized in TABLE 1. The entire laboratory test results can be found in the appendix of this report.



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**K. Hovnanian Great Western Homes Arizona, LLC**

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**TABLE 1 - RESULTS OF CHEMICAL TESTING**

Sample ID -Depth (ft)	Barium* (SRL 15,000)	Chromium* (SRL 120,000)	Lead* (SRL 400)	Perchlorate* (SRL 55)	Concern Yes / NO
B1-2'	140	31	7.7	ND	NO
B1-4'	130	26	7.9	ND	NO
B2-5'	120	17	4.6	0.011	NO
B2-7'	120	16	3.4	ND	NO
B3-2'	130	29	7.1	ND	NO
B3-6'	92	23	4.9	ND	NO
B4-5'	99	30	5.2	ND	NO
B4-10'	78	12	3.1	ND	NO
B5-7'	79	13	3.5	ND	NO
B5-11'	83	18	2.8	ND	NO
B6-7'	150	25	5.8	0.011	NO
B6-10'	120	19	4.7	ND	NO
B7-2'	120	18	5.4	0.041	NO
B7-5'	150	17	2.9	0.021	NO
B8-2'	210	12	4.2	ND	NO
B8-4'	270	13	4	ND	NO
B9-5'	110	7.6	13	ND	NO
B9-7'	93	7.1	11	ND	NO
B10-5'	120	12	3.1	ND	NO
B10-7'	120	3.4	4.7	ND	NO

All results are reported in milligrams per kilogram (mg/kg) which is equal to parts per million (ppm) -ND = Non Detect.

*\* These values are based on both the residential pre-determined risk-based remediation standards developed as part of the Soil Remediation Standards Rule (R18-7-201). This standard, called Soil Remediation Levels (SRL 's), have been calculated for the Arizona Department of Environmental Quality (ADEQ) by the Arizona Department of Health Services (ADHS), Office of Environmental Health. SRL 's*

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*are protective of human health, including sensitive groups, over a lifetime. It should be noted that chemical concentrations in soils that exceed SRL's may not necessarily represent a health risk. Rather, when contaminant concentrations in soil exceed these standards, further evaluation may be necessary to determine whether the site poses an unacceptable risk to human health.*

**3.0 CONCLUSION**

Based on the results of the previous testing conducted at the Property and the recent Limited Phase II Study and chemical testing, GTI has confirmed that the underlying soils have chemical concentrations that are all **well below** the Residential Arizona State Soil Remediation Levels (SRL).

It is GTI's professional opinion that the soils within the proposed residential area of the Property have not been negatively impacted by the past activities conducted by **Universal Propulsion Company (UPCO)**. GTI recommends no further environmental testing at this Property.

If you have any questions regarding this letter report, or any other matter, please do not hesitate to call GTI at (480) 659-6630.

Sincerely,

**Geotechnical Testing & Inspections**

A handwritten signature in blue ink that reads "Randy Smith".

Randy Smith, P.E.  
Geotechnical Department Manager



**Reviewed by:**

A handwritten signature in blue ink that reads "Peter Fleming".

Dr. Peter Fleming, P.E.  
President

Limited Phase II Study

**CENTRAL FOOTHILLS NORTH DEVELOPMENT**

**K. Hovnanian Great Western Homes Arizona, LLC**

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**APPENDIX**



Limited Phase II Study

**CENTRAL FOOTHILLS NORTH DEVELOPMENT**

**K. Hovnanian Great Western Homes Arizona, LLC**

GTI Project No. 195615E

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## ANALYTICAL REPORT

Eurofins TestAmerica, Phoenix  
4625 East Cotton Ctr Blvd  
Suite 189  
Phoenix, AZ 85040  
Tel: (602)437-3340

Laboratory Job ID: 550-129882-1

Laboratory Sample Delivery Group: Central Foothills  
Client Project/Site: 195615E

For:

Geotechnical Testing & Inspection LLC  
7855 E. Evans Road  
Suite C  
Scottsdale, Arizona 85260

Attn: Taylor Eppers



Authorized for release by:  
9/30/2019 9:52:48 AM

Carlene McCutcheon, Project Manager II  
(602)659-7612  
[carlene.mccutcheon@testamericainc.com](mailto:carlene.mccutcheon@testamericainc.com)

### LINKS

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

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

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## Definitions/Glossary

Client: Geotechnical Testing & Inspection LLC  
Project/Site: 195615E

Job ID: 550-129882-1  
SDG: Central Foothills

### Qualifiers

#### Metals

Qualifier	Qualifier Description
M2	Matrix spike recovery was low, the associated blank spike recovery was acceptable.

### Glossary

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

## Case Narrative

Client: Geotechnical Testing & Inspection LLC  
Project/Site: 195615E

Job ID: 550-129882-1  
SDG: Central Foothills

**Job ID: 550-129882-1**

**Laboratory: Eurofins TestAmerica, Phoenix**

### Narrative

**Job Narrative**  
**550-129882-1**

### Comments

No additional comments.

### Receipt

The samples were received on 9/18/2019 1:34 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.3° C.

### HPLC/IC

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

### Metals

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

### General Chemistry

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

# Sample Summary

Client: Geotechnical Testing & Inspection LLC  
Project/Site: 195615E

Job ID: 550-129882-1  
SDG: Central Foothills

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
550-129882-1	B1-2'	Solid	09/18/19 07:10	09/18/19 13:34	
550-129882-2	B1-4'	Solid	09/18/19 07:14	09/18/19 13:34	
550-129882-3	B2-5'	Solid	09/18/19 07:22	09/18/19 13:34	
550-129882-4	B2-7'	Solid	09/18/19 07:23	09/18/19 13:34	
550-129882-5	B3-2'	Solid	09/18/19 07:33	09/18/19 13:34	
550-129882-6	B3-6'	Solid	09/18/19 07:35	09/18/19 13:34	
550-129882-7	B4-5'	Solid	09/18/19 07:44	09/18/19 13:34	
550-129882-8	B4-10'	Solid	09/18/19 07:52	09/18/19 13:34	
550-129882-9	B5-7'	Solid	09/18/19 08:35	09/18/19 13:34	
550-129882-10	B5-11'	Solid	09/18/19 08:37	09/18/19 13:34	
550-129882-11	B6-7'	Solid	09/18/19 08:49	09/18/19 13:34	
550-129882-12	B6-10'	Solid	09/18/19 08:50	09/18/19 13:34	
550-129882-13	B7-2'	Solid	09/18/19 08:59	09/18/19 13:34	
550-129882-14	B7-5'	Solid	09/18/19 09:01	09/18/19 13:34	
550-129882-15	B8-2'	Solid	09/18/19 09:14	09/18/19 13:34	
550-129882-16	B8-4'	Solid	09/18/19 09:17	09/18/19 13:34	
550-129882-17	B9-5'	Solid	09/18/19 10:24	09/18/19 13:34	
550-129882-18	B9-7'	Solid	09/18/19 10:25	09/18/19 13:34	
550-129882-19	B10-5'	Solid	09/18/19 10:34	09/18/19 13:34	
550-129882-20	B10-7'	Solid	09/18/19 10:35	09/18/19 13:34	

## Detection Summary

Client: Geotechnical Testing & Inspection LLC  
Project/Site: 195615E

Job ID: 550-129882-1  
SDG: Central Foothills

### Client Sample ID: B1-2'

### Lab Sample ID: 550-129882-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	140		4.9		mg/Kg	1		6010C	Total/NA
Chromium	31		1.9		mg/Kg	1		6010C	Total/NA
Lead	7.7		0.97		mg/Kg	1		6010C	Total/NA

### Client Sample ID: B1-4'

### Lab Sample ID: 550-129882-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	130		5.0		mg/Kg	1		6010C	Total/NA
Chromium	26		2.0		mg/Kg	1		6010C	Total/NA
Lead	7.9		0.99		mg/Kg	1		6010C	Total/NA

### Client Sample ID: B2-5'

### Lab Sample ID: 550-129882-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perchlorate	0.011		0.0098		mg/Kg	1		314.0	Soluble
Barium	120		5.0		mg/Kg	1		6010C	Total/NA
Chromium	17		2.0		mg/Kg	1		6010C	Total/NA
Lead	4.6		0.99		mg/Kg	1		6010C	Total/NA

### Client Sample ID: B2-7'

### Lab Sample ID: 550-129882-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	120		4.9		mg/Kg	1		6010C	Total/NA
Chromium	16		2.0		mg/Kg	1		6010C	Total/NA
Lead	3.4		0.98		mg/Kg	1		6010C	Total/NA

### Client Sample ID: B3-2'

### Lab Sample ID: 550-129882-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	130		4.9		mg/Kg	1		6010C	Total/NA
Chromium	29		2.0		mg/Kg	1		6010C	Total/NA
Lead	7.1		0.99		mg/Kg	1		6010C	Total/NA

### Client Sample ID: B3-6'

### Lab Sample ID: 550-129882-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	92		4.9		mg/Kg	1		6010C	Total/NA
Chromium	23		2.0		mg/Kg	1		6010C	Total/NA
Lead	4.9		0.99		mg/Kg	1		6010C	Total/NA

### Client Sample ID: B4-5'

### Lab Sample ID: 550-129882-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	99		5.0		mg/Kg	1		6010C	Total/NA
Chromium	30		2.0		mg/Kg	1		6010C	Total/NA
Lead	5.2		0.99		mg/Kg	1		6010C	Total/NA

### Client Sample ID: B4-10'

### Lab Sample ID: 550-129882-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	78		4.9		mg/Kg	1		6010C	Total/NA
Chromium	12		2.0		mg/Kg	1		6010C	Total/NA
Lead	3.1		0.98		mg/Kg	1		6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Phoenix



# Detection Summary

Client: Geotechnical Testing & Inspection LLC  
Project/Site: 195615E

Job ID: 550-129882-1  
SDG: Central Foothills

## Client Sample ID: B5-7'

## Lab Sample ID: 550-129882-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	79		5.0		mg/Kg	1		6010C	Total/NA
Chromium	13		2.0		mg/Kg	1		6010C	Total/NA
Lead	3.5		0.99		mg/Kg	1		6010C	Total/NA

## Client Sample ID: B5-11'

## Lab Sample ID: 550-129882-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	83		5.0		mg/Kg	1		6010C	Total/NA
Chromium	18		2.0		mg/Kg	1		6010C	Total/NA
Lead	2.8		1.0		mg/Kg	1		6010C	Total/NA

## Client Sample ID: B6-7'

## Lab Sample ID: 550-129882-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perchlorate	0.011		0.0098		mg/Kg	1		314.0	Soluble
Barium	150		4.9		mg/Kg	1		6010C	Total/NA
Chromium	25		1.9		mg/Kg	1		6010C	Total/NA
Lead	5.8		0.97		mg/Kg	1		6010C	Total/NA

## Client Sample ID: B6-10'

## Lab Sample ID: 550-129882-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	120		4.9		mg/Kg	1		6010C	Total/NA
Chromium	19		2.0		mg/Kg	1		6010C	Total/NA
Lead	4.7		0.98		mg/Kg	1		6010C	Total/NA

## Client Sample ID: B7-2'

## Lab Sample ID: 550-129882-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perchlorate	0.041		0.0099		mg/Kg	1		314.0	Soluble
Barium	120		4.9		mg/Kg	1		6010C	Total/NA
Chromium	18		2.0		mg/Kg	1		6010C	Total/NA
Lead	5.4		0.99		mg/Kg	1		6010C	Total/NA

## Client Sample ID: B7-5'

## Lab Sample ID: 550-129882-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perchlorate	0.021		0.010		mg/Kg	1		314.0	Soluble
Barium	150		5.0		mg/Kg	1		6010C	Total/NA
Chromium	17		2.0		mg/Kg	1		6010C	Total/NA
Lead	2.9		1.0		mg/Kg	1		6010C	Total/NA

## Client Sample ID: B8-2'

## Lab Sample ID: 550-129882-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	210		5.0		mg/Kg	1		6010C	Total/NA
Chromium	12		2.0		mg/Kg	1		6010C	Total/NA
Lead	4.2		0.99		mg/Kg	1		6010C	Total/NA

## Client Sample ID: B8-4'

## Lab Sample ID: 550-129882-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	270		4.9		mg/Kg	1		6010C	Total/NA
Chromium	13		1.9		mg/Kg	1		6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Phoenix

## Detection Summary

Client: Geotechnical Testing & Inspection LLC  
Project/Site: 195615E

Job ID: 550-129882-1  
SDG: Central Foothills

### Client Sample ID: B8-4' (Continued)

Lab Sample ID: 550-129882-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	4.0		0.97		mg/Kg	1		6010C	Total/NA

### Client Sample ID: B9-5'

Lab Sample ID: 550-129882-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	110		5.0		mg/Kg	1		6010C	Total/NA
Chromium	7.6		2.0		mg/Kg	1		6010C	Total/NA
Lead	13		1.0		mg/Kg	1		6010C	Total/NA

### Client Sample ID: B9-7'

Lab Sample ID: 550-129882-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	93		5.0		mg/Kg	1		6010C	Total/NA
Chromium	7.1		2.0		mg/Kg	1		6010C	Total/NA
Lead	11		1.0		mg/Kg	1		6010C	Total/NA

### Client Sample ID: B10-5'

Lab Sample ID: 550-129882-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	120		5.0		mg/Kg	1		6010C	Total/NA
Chromium	12		2.0		mg/Kg	1		6010C	Total/NA
Lead	3.1		1.0		mg/Kg	1		6010C	Total/NA

### Client Sample ID: B10-7'

Lab Sample ID: 550-129882-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	120		5.0		mg/Kg	1		6010C	Total/NA
Chromium	3.4		2.0		mg/Kg	1		6010C	Total/NA
Lead	4.7		0.99		mg/Kg	1		6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Phoenix

# Client Sample Results

Client: Geotechnical Testing & Inspection LLC  
Project/Site: 195615E

Job ID: 550-129882-1  
SDG: Central Foothills

**Client Sample ID: B1-2'**

**Date Collected: 09/18/19 07:10**

**Date Received: 09/18/19 13:34**

**Lab Sample ID: 550-129882-1**

**Matrix: Solid**

## Method: 314.0 - Perchlorate (IC) - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	ND		0.0099		mg/Kg	-		09/26/19 14:19	1

## Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		2.9		mg/Kg	-	09/19/19 16:02	09/26/19 03:17	1
Barium	140		4.9		mg/Kg	-	09/19/19 16:02	09/26/19 03:17	1
Cadmium	ND		0.49		mg/Kg	-	09/19/19 16:02	09/26/19 03:17	1
Chromium	31		1.9		mg/Kg	-	09/19/19 16:02	09/27/19 01:10	1
Lead	7.7		0.97		mg/Kg	-	09/19/19 16:02	09/27/19 01:10	1
Selenium	ND	M2	4.9		mg/Kg	-	09/19/19 16:02	09/27/19 01:10	1
Silver	ND		2.4		mg/Kg	-	09/19/19 16:02	09/26/19 03:17	1

## Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.099		mg/Kg	-	09/20/19 12:34	09/20/19 15:25	1

**Client Sample ID: B1-4'**

**Date Collected: 09/18/19 07:14**

**Date Received: 09/18/19 13:34**

**Lab Sample ID: 550-129882-2**

**Matrix: Solid**

## Method: 314.0 - Perchlorate (IC) - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	ND		0.0098		mg/Kg	-		09/26/19 14:42	1

## Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		3.0		mg/Kg	-	09/19/19 16:02	09/26/19 03:20	1
Barium	130		5.0		mg/Kg	-	09/19/19 16:02	09/26/19 03:20	1
Cadmium	ND		0.50		mg/Kg	-	09/19/19 16:02	09/26/19 03:20	1
Chromium	26		2.0		mg/Kg	-	09/19/19 16:02	09/27/19 01:13	1
Lead	7.9		0.99		mg/Kg	-	09/19/19 16:02	09/27/19 01:13	1
Selenium	ND		5.0		mg/Kg	-	09/19/19 16:02	09/27/19 01:13	1
Silver	ND		2.5		mg/Kg	-	09/19/19 16:02	09/26/19 03:20	1

## Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.096		mg/Kg	-	09/20/19 12:34	09/20/19 15:27	1

**Client Sample ID: B2-5'**

**Date Collected: 09/18/19 07:22**

**Date Received: 09/18/19 13:34**

**Lab Sample ID: 550-129882-3**

**Matrix: Solid**

## Method: 314.0 - Perchlorate (IC) - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	0.011		0.0098		mg/Kg	-		09/26/19 15:05	1

## Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		3.0		mg/Kg	-	09/19/19 16:02	09/26/19 03:22	1
Barium	120		5.0		mg/Kg	-	09/19/19 16:02	09/26/19 03:22	1
Cadmium	ND		0.50		mg/Kg	-	09/19/19 16:02	09/26/19 03:22	1
Chromium	17		2.0		mg/Kg	-	09/19/19 16:02	09/27/19 01:16	1

Eurofins TestAmerica, Phoenix

# Client Sample Results

Client: Geotechnical Testing & Inspection LLC  
Project/Site: 195615E

Job ID: 550-129882-1  
SDG: Central Foothills

**Client Sample ID: B2-5'**

**Date Collected: 09/18/19 07:22**

**Date Received: 09/18/19 13:34**

**Lab Sample ID: 550-129882-3**

**Matrix: Solid**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	4.6		0.99		mg/Kg		09/19/19 16:02	09/27/19 01:16	1
Selenium	ND		5.0		mg/Kg		09/19/19 16:02	09/27/19 01:16	1
Silver	ND		2.5		mg/Kg		09/19/19 16:02	09/26/19 03:22	1

## Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.095		mg/Kg		09/20/19 12:34	09/20/19 15:29	1

**Client Sample ID: B2-7'**

**Date Collected: 09/18/19 07:23**

**Date Received: 09/18/19 13:34**

**Lab Sample ID: 550-129882-4**

**Matrix: Solid**

## Method: 314.0 - Perchlorate (IC) - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	ND		0.010		mg/Kg			09/26/19 15:28	1

## Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		2.9		mg/Kg		09/19/19 16:02	09/26/19 03:25	1
Barium	120		4.9		mg/Kg		09/19/19 16:02	09/26/19 03:25	1
Cadmium	ND		0.49		mg/Kg		09/19/19 16:02	09/26/19 03:25	1
Chromium	16		2.0		mg/Kg		09/19/19 16:02	09/27/19 01:18	1
Lead	3.4		0.98		mg/Kg		09/19/19 16:02	09/27/19 01:18	1
Selenium	ND		4.9		mg/Kg		09/19/19 16:02	09/27/19 01:18	1
Silver	ND		2.4		mg/Kg		09/19/19 16:02	09/26/19 03:25	1

## Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.097		mg/Kg		09/20/19 12:34	09/20/19 15:31	1

**Client Sample ID: B3-2'**

**Date Collected: 09/18/19 07:33**

**Date Received: 09/18/19 13:34**

**Lab Sample ID: 550-129882-5**

**Matrix: Solid**

## Method: 314.0 - Perchlorate (IC) - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	ND		0.0099		mg/Kg			09/26/19 15:51	1

## Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		3.0		mg/Kg		09/19/19 16:02	09/26/19 03:27	1
Barium	130		4.9		mg/Kg		09/19/19 16:02	09/26/19 03:27	1
Cadmium	ND		0.49		mg/Kg		09/19/19 16:02	09/26/19 03:27	1
Chromium	29		2.0		mg/Kg		09/19/19 16:02	09/27/19 01:20	1
Lead	7.1		0.99		mg/Kg		09/19/19 16:02	09/27/19 01:20	1
Selenium	ND		4.9		mg/Kg		09/19/19 16:02	09/27/19 01:20	1
Silver	ND		2.5		mg/Kg		09/19/19 16:02	09/26/19 03:27	1

## Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.099		mg/Kg		09/20/19 12:34	09/20/19 15:33	1

Euofins TestAmerica, Phoenix



# Client Sample Results

Client: Geotechnical Testing & Inspection LLC  
Project/Site: 195615E

Job ID: 550-129882-1  
SDG: Central Foothills

**Client Sample ID: B3-6'**

**Date Collected: 09/18/19 07:35**

**Date Received: 09/18/19 13:34**

**Lab Sample ID: 550-129882-6**

**Matrix: Solid**

## Method: 314.0 - Perchlorate (IC) - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	ND		0.0098		mg/Kg	-		09/26/19 16:13	1

## Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		3.0		mg/Kg	-	09/19/19 16:02	09/26/19 03:30	1
Barium	92		4.9		mg/Kg	-	09/19/19 16:02	09/26/19 03:30	1
Cadmium	ND		0.49		mg/Kg	-	09/19/19 16:02	09/26/19 03:30	1
Chromium	23		2.0		mg/Kg	-	09/19/19 16:02	09/27/19 01:23	1
Lead	4.9		0.99		mg/Kg	-	09/19/19 16:02	09/27/19 01:23	1
Selenium	ND		4.9		mg/Kg	-	09/19/19 16:02	09/27/19 01:23	1
Silver	ND		2.5		mg/Kg	-	09/19/19 16:02	09/26/19 03:30	1

## Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.085		mg/Kg	-	09/20/19 12:34	09/20/19 15:35	1

**Client Sample ID: B4-5'**

**Date Collected: 09/18/19 07:44**

**Date Received: 09/18/19 13:34**

**Lab Sample ID: 550-129882-7**

**Matrix: Solid**

## Method: 314.0 - Perchlorate (IC) - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	ND		0.0098		mg/Kg	-		09/26/19 16:36	1

## Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		3.0		mg/Kg	-	09/19/19 16:02	09/26/19 03:32	1
Barium	99		5.0		mg/Kg	-	09/19/19 16:02	09/26/19 03:32	1
Cadmium	ND		0.50		mg/Kg	-	09/19/19 16:02	09/26/19 03:32	1
Chromium	30		2.0		mg/Kg	-	09/19/19 16:02	09/27/19 01:25	1
Lead	5.2		0.99		mg/Kg	-	09/19/19 16:02	09/27/19 01:25	1
Selenium	ND		5.0		mg/Kg	-	09/19/19 16:02	09/27/19 01:25	1
Silver	ND		2.5		mg/Kg	-	09/19/19 16:02	09/26/19 03:32	1

## Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.097		mg/Kg	-	09/20/19 12:34	09/20/19 15:37	1

**Client Sample ID: B4-10'**

**Date Collected: 09/18/19 07:52**

**Date Received: 09/18/19 13:34**

**Lab Sample ID: 550-129882-8**

**Matrix: Solid**

## Method: 314.0 - Perchlorate (IC) - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	ND		0.0099		mg/Kg	-		09/26/19 16:59	1

## Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		2.9		mg/Kg	-	09/19/19 16:02	09/26/19 03:35	1
Barium	78		4.9		mg/Kg	-	09/19/19 16:02	09/26/19 03:35	1
Cadmium	ND		0.49		mg/Kg	-	09/19/19 16:02	09/26/19 03:35	1
Chromium	12		2.0		mg/Kg	-	09/19/19 16:02	09/27/19 01:28	1

Eurofins TestAmerica, Phoenix

# Client Sample Results

Client: Geotechnical Testing & Inspection LLC  
Project/Site: 195615E

Job ID: 550-129882-1  
SDG: Central Foothills

**Client Sample ID: B4-10'**

**Date Collected: 09/18/19 07:52**

**Date Received: 09/18/19 13:34**

**Lab Sample ID: 550-129882-8**

**Matrix: Solid**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	3.1		0.98		mg/Kg		09/19/19 16:02	09/27/19 01:28	1
Selenium	ND		4.9		mg/Kg		09/19/19 16:02	09/27/19 01:28	1
Silver	ND		2.4		mg/Kg		09/19/19 16:02	09/26/19 03:35	1

## Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.089		mg/Kg		09/20/19 12:34	09/20/19 15:39	1

**Client Sample ID: B5-7'**

**Date Collected: 09/18/19 08:35**

**Date Received: 09/18/19 13:34**

**Lab Sample ID: 550-129882-9**

**Matrix: Solid**

## Method: 314.0 - Perchlorate (IC) - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	ND		0.0099		mg/Kg			09/25/19 20:35	1

## Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		3.0		mg/Kg		09/19/19 16:02	09/26/19 03:37	1
Barium	79		5.0		mg/Kg		09/19/19 16:02	09/26/19 03:37	1
Cadmium	ND		0.50		mg/Kg		09/19/19 16:02	09/26/19 03:37	1
Chromium	13		2.0		mg/Kg		09/19/19 16:02	09/27/19 01:30	1
Lead	3.5		0.99		mg/Kg		09/19/19 16:02	09/27/19 01:30	1
Selenium	ND		5.0		mg/Kg		09/19/19 16:02	09/27/19 01:30	1
Silver	ND		2.5		mg/Kg		09/19/19 16:02	09/26/19 03:37	1

## Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.085		mg/Kg		09/20/19 12:34	09/20/19 15:41	1

**Client Sample ID: B5-11'**

**Date Collected: 09/18/19 08:37**

**Date Received: 09/18/19 13:34**

**Lab Sample ID: 550-129882-10**

**Matrix: Solid**

## Method: 314.0 - Perchlorate (IC) - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	ND		0.0099		mg/Kg			09/25/19 20:58	1

## Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		3.0		mg/Kg		09/19/19 16:02	09/26/19 03:40	1
Barium	83		5.0		mg/Kg		09/19/19 16:02	09/26/19 03:40	1
Cadmium	ND		0.50		mg/Kg		09/19/19 16:02	09/26/19 03:40	1
Chromium	18		2.0		mg/Kg		09/19/19 16:02	09/27/19 01:33	1
Lead	2.8		1.0		mg/Kg		09/19/19 16:02	09/27/19 01:33	1
Selenium	ND		5.0		mg/Kg		09/19/19 16:02	09/27/19 01:33	1
Silver	ND		2.5		mg/Kg		09/19/19 16:02	09/26/19 03:40	1

## Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.087		mg/Kg		09/20/19 12:34	09/20/19 15:43	1

Eurofins TestAmerica, Phoenix

# Client Sample Results

Client: Geotechnical Testing & Inspection LLC  
Project/Site: 195615E

Job ID: 550-129882-1  
SDG: Central Foothills

**Client Sample ID: B6-7'**

**Lab Sample ID: 550-129882-11**

Date Collected: 09/18/19 08:49

Matrix: Solid

Date Received: 09/18/19 13:34

## Method: 314.0 - Perchlorate (IC) - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	0.011		0.0098		mg/Kg	-		09/25/19 21:21	1

## Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		2.9		mg/Kg	-	09/19/19 16:02	09/26/19 03:48	1
Barium	150		4.9		mg/Kg	-	09/19/19 16:02	09/26/19 03:48	1
Cadmium	ND		0.49		mg/Kg	-	09/19/19 16:02	09/26/19 03:48	1
Chromium	25		1.9		mg/Kg	-	09/19/19 16:02	09/27/19 01:41	1
Lead	5.8		0.97		mg/Kg	-	09/19/19 16:02	09/27/19 01:41	1
Selenium	ND		4.9		mg/Kg	-	09/19/19 16:02	09/27/19 01:41	1
Silver	ND		2.4		mg/Kg	-	09/19/19 16:02	09/26/19 03:48	1

## Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.097		mg/Kg	-	09/20/19 12:34	09/20/19 15:49	1

**Client Sample ID: B6-10'**

**Lab Sample ID: 550-129882-12**

Date Collected: 09/18/19 08:50

Matrix: Solid

Date Received: 09/18/19 13:34

## Method: 314.0 - Perchlorate (IC) - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	ND		0.010		mg/Kg	-		09/25/19 21:44	1

## Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		3.0		mg/Kg	-	09/19/19 16:02	09/26/19 03:51	1
Barium	120		4.9		mg/Kg	-	09/19/19 16:02	09/26/19 03:51	1
Cadmium	ND		0.49		mg/Kg	-	09/19/19 16:02	09/26/19 03:51	1
Chromium	19		2.0		mg/Kg	-	09/19/19 16:02	09/27/19 01:44	1
Lead	4.7		0.98		mg/Kg	-	09/19/19 16:02	09/27/19 01:44	1
Selenium	ND		4.9		mg/Kg	-	09/19/19 16:02	09/27/19 01:44	1
Silver	ND		2.5		mg/Kg	-	09/19/19 16:02	09/26/19 03:51	1

## Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.095		mg/Kg	-	09/20/19 12:34	09/20/19 15:51	1

**Client Sample ID: B7-2'**

**Lab Sample ID: 550-129882-13**

Date Collected: 09/18/19 08:59

Matrix: Solid

Date Received: 09/18/19 13:34

## Method: 314.0 - Perchlorate (IC) - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	0.041		0.0099		mg/Kg	-		09/25/19 22:07	1

## Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		3.0		mg/Kg	-	09/19/19 16:02	09/26/19 03:54	1
Barium	120		4.9		mg/Kg	-	09/19/19 16:02	09/26/19 03:54	1
Cadmium	ND		0.49		mg/Kg	-	09/19/19 16:02	09/26/19 03:54	1
Chromium	18		2.0		mg/Kg	-	09/19/19 16:02	09/27/19 01:46	1

Eurofins TestAmerica, Phoenix

# Client Sample Results

Client: Geotechnical Testing & Inspection LLC  
Project/Site: 195615E

Job ID: 550-129882-1  
SDG: Central Foothills

**Client Sample ID: B7-2'**

**Lab Sample ID: 550-129882-13**

**Date Collected: 09/18/19 08:59**

**Matrix: Solid**

**Date Received: 09/18/19 13:34**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	5.4		0.99		mg/Kg		09/19/19 16:02	09/27/19 01:46	1
Selenium	ND		4.9		mg/Kg		09/19/19 16:02	09/27/19 01:46	1
Silver	ND		2.5		mg/Kg		09/19/19 16:02	09/26/19 03:54	1

## Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.097		mg/Kg		09/20/19 12:34	09/20/19 15:53	1

**Client Sample ID: B7-5'**

**Lab Sample ID: 550-129882-14**

**Date Collected: 09/18/19 09:01**

**Matrix: Solid**

**Date Received: 09/18/19 13:34**

## Method: 314.0 - Perchlorate (IC) - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	0.021		0.010		mg/Kg			09/25/19 22:29	1

## Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		3.0		mg/Kg		09/19/19 16:02	09/26/19 03:56	1
Barium	150		5.0		mg/Kg		09/19/19 16:02	09/26/19 03:56	1
Cadmium	ND		0.50		mg/Kg		09/19/19 16:02	09/26/19 03:56	1
Chromium	17		2.0		mg/Kg		09/19/19 16:02	09/27/19 01:49	1
Lead	2.9		1.0		mg/Kg		09/19/19 16:02	09/27/19 01:49	1
Selenium	ND		5.0		mg/Kg		09/19/19 16:02	09/27/19 01:49	1
Silver	ND		2.5		mg/Kg		09/19/19 16:02	09/26/19 03:56	1

## Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.097		mg/Kg		09/20/19 12:34	09/20/19 15:55	1

**Client Sample ID: B8-2'**

**Lab Sample ID: 550-129882-15**

**Date Collected: 09/18/19 09:14**

**Matrix: Solid**

**Date Received: 09/18/19 13:34**

## Method: 314.0 - Perchlorate (IC) - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	ND		0.010		mg/Kg			09/25/19 22:52	1

## Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		3.0		mg/Kg		09/19/19 16:02	09/26/19 03:59	1
Barium	210		5.0		mg/Kg		09/19/19 16:02	09/26/19 03:59	1
Cadmium	ND		0.50		mg/Kg		09/19/19 16:02	09/26/19 03:59	1
Chromium	12		2.0		mg/Kg		09/19/19 16:02	09/27/19 01:51	1
Lead	4.2		0.99		mg/Kg		09/19/19 16:02	09/27/19 01:51	1
Selenium	ND		5.0		mg/Kg		09/19/19 16:02	09/27/19 01:51	1
Silver	ND		2.5		mg/Kg		09/19/19 16:02	09/26/19 03:59	1

## Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.084		mg/Kg		09/20/19 12:34	09/20/19 15:57	1

Eurolins TestAmerica, Phoenix



# Client Sample Results

Client: Geotechnical Testing & Inspection LLC  
Project/Site: 195615E

Job ID: 550-129882-1  
SDG: Central Foothills

**Client Sample ID: B8-4'**

**Lab Sample ID: 550-129882-16**

Date Collected: 09/18/19 09:17

Matrix: Solid

Date Received: 09/18/19 13:34

## Method: 314.0 - Perchlorate (IC) - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	ND		0.0099		mg/Kg	-		09/26/19 00:01	1

## Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		2.9		mg/Kg	-	09/19/19 16:02	09/26/19 04:01	1
Barium	270		4.9		mg/Kg	-	09/19/19 16:02	09/26/19 04:01	1
Cadmium	ND		0.49		mg/Kg	-	09/19/19 16:02	09/26/19 04:01	1
Chromium	13		1.9		mg/Kg	-	09/19/19 16:02	09/27/19 01:54	1
Lead	4.0		0.97		mg/Kg	-	09/19/19 16:02	09/27/19 01:54	1
Selenium	ND		4.9		mg/Kg	-	09/19/19 16:02	09/27/19 01:54	1
Silver	ND		2.4		mg/Kg	-	09/19/19 16:02	09/26/19 04:01	1

## Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.097		mg/Kg	-	09/20/19 12:34	09/20/19 15:59	1

**Client Sample ID: B9-5'**

**Lab Sample ID: 550-129882-17**

Date Collected: 09/18/19 10:24

Matrix: Solid

Date Received: 09/18/19 13:34

## Method: 314.0 - Perchlorate (IC) - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	ND		0.0098		mg/Kg	-		09/26/19 00:24	1

## Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		3.0		mg/Kg	-	09/19/19 16:02	09/26/19 04:04	1
Barium	110		5.0		mg/Kg	-	09/19/19 16:02	09/26/19 04:04	1
Cadmium	ND		0.50		mg/Kg	-	09/19/19 16:02	09/26/19 04:04	1
Chromium	7.6		2.0		mg/Kg	-	09/19/19 16:02	09/27/19 01:56	1
Lead	13		1.0		mg/Kg	-	09/19/19 16:02	09/27/19 01:56	1
Selenium	ND		5.0		mg/Kg	-	09/19/19 16:02	09/27/19 01:56	1
Silver	ND		2.5		mg/Kg	-	09/19/19 16:02	09/26/19 04:04	1

## Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.092		mg/Kg	-	09/20/19 12:34	09/20/19 16:01	1

**Client Sample ID: B9-7'**

**Lab Sample ID: 550-129882-18**

Date Collected: 09/18/19 10:25

Matrix: Solid

Date Received: 09/18/19 13:34

## Method: 314.0 - Perchlorate (IC) - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	ND		0.010		mg/Kg	-		09/26/19 00:47	1

## Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		3.0		mg/Kg	-	09/19/19 16:02	09/26/19 04:07	1
Barium	93		5.0		mg/Kg	-	09/19/19 16:02	09/26/19 04:07	1
Cadmium	ND		0.50		mg/Kg	-	09/19/19 16:02	09/26/19 04:07	1
Chromium	7.1		2.0		mg/Kg	-	09/19/19 16:02	09/27/19 01:59	1

Eurofins TestAmerica, Phoenix

# Client Sample Results

Client: Geotechnical Testing & Inspection LLC  
Project/Site: 195615E

Job ID: 550-129882-1  
SDG: Central Foothills

**Client Sample ID: B9-7'**

**Lab Sample ID: 550-129882-18**

**Date Collected: 09/18/19 10:25**

**Matrix: Solid**

**Date Received: 09/18/19 13:34**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	11		1.0		mg/Kg		09/19/19 16:02	09/27/19 01:59	1
Selenium	ND		5.0		mg/Kg		09/19/19 16:02	09/27/19 01:59	1
Silver	ND		2.5		mg/Kg		09/19/19 16:02	09/26/19 04:07	1

## Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.098		mg/Kg		09/20/19 12:34	09/20/19 16:03	1

**Client Sample ID: B10-5'**

**Lab Sample ID: 550-129882-19**

**Date Collected: 09/18/19 10:34**

**Matrix: Solid**

**Date Received: 09/18/19 13:34**

## Method: 314.0 - Perchlorate (IC) - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	ND		0.0099		mg/Kg			09/26/19 01:10	1

## Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		3.0		mg/Kg		09/19/19 16:02	09/26/19 04:09	1
Barium	120		5.0		mg/Kg		09/19/19 16:02	09/26/19 04:09	1
Cadmium	ND		0.50		mg/Kg		09/19/19 16:02	09/26/19 04:09	1
Chromium	12		2.0		mg/Kg		09/19/19 16:02	09/27/19 02:02	1
Lead	3.1		1.0		mg/Kg		09/19/19 16:02	09/27/19 02:02	1
Selenium	ND		5.0		mg/Kg		09/19/19 16:02	09/27/19 02:02	1
Silver	ND		2.5		mg/Kg		09/19/19 16:02	09/26/19 04:09	1

## Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.096		mg/Kg		09/20/19 12:34	09/20/19 16:05	1

**Client Sample ID: B10-7'**

**Lab Sample ID: 550-129882-20**

**Date Collected: 09/18/19 10:35**

**Matrix: Solid**

**Date Received: 09/18/19 13:34**

## Method: 314.0 - Perchlorate (IC) - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	ND		0.0099		mg/Kg			09/26/19 01:33	1

## Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		3.0		mg/Kg		09/19/19 16:02	09/26/19 04:12	1
Barium	120		5.0		mg/Kg		09/19/19 16:02	09/26/19 04:12	1
Cadmium	ND		0.50		mg/Kg		09/19/19 16:02	09/26/19 04:12	1
Chromium	3.4		2.0		mg/Kg		09/19/19 16:02	09/27/19 02:05	1
Lead	4.7		0.99		mg/Kg		09/19/19 16:02	09/27/19 02:05	1
Selenium	ND		5.0		mg/Kg		09/19/19 16:02	09/27/19 02:05	1
Silver	ND		2.5		mg/Kg		09/19/19 16:02	09/26/19 04:12	1

## Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.098		mg/Kg		09/20/19 12:34	09/20/19 16:07	1

Eurofins TestAmerica, Phoenix

# QC Sample Results

Client: Geotechnical Testing & Inspection LLC  
Project/Site: 195615E

Job ID: 550-129882-1  
SDG: Central Foothills

## Method: 314.0 - Perchlorate (IC)

Lab Sample ID: MB 550-190481/1-A  
Matrix: Solid  
Analysis Batch: 190730

Client Sample ID: Method Blank  
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	ND		0.0099		mg/Kg			09/25/19 15:36	1

Lab Sample ID: LCS 550-190481/2-A  
Matrix: Solid  
Analysis Batch: 190730

Client Sample ID: Lab Control Sample  
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perchlorate	0.246	0.265		mg/Kg		108	85 - 115

Lab Sample ID: LCSD 550-190481/3-A  
Matrix: Solid  
Analysis Batch: 190730

Client Sample ID: Lab Control Sample Dup  
Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Perchlorate	0.246	0.265		mg/Kg		108	85 - 115	0	15

Lab Sample ID: 550-129882-1 MS  
Matrix: Solid  
Analysis Batch: 190854

Client Sample ID: B1-2'  
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Perchlorate	ND		0.250	0.269		mg/Kg		108	80 - 120

Lab Sample ID: 550-129882-1 MSD  
Matrix: Solid  
Analysis Batch: 190854

Client Sample ID: B1-2'  
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Perchlorate	ND		0.247	0.261		mg/Kg		106	80 - 120	3	15

## Method: 6010C - Metals (ICP)

Lab Sample ID: MB 550-190087/1-A  
Matrix: Solid  
Analysis Batch: 190686

Client Sample ID: Method Blank  
Prep Type: Total/NA  
Prep Batch: 190087

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		2.9		mg/Kg		09/19/19 16:02	09/26/19 03:02	1
Barium	ND		4.9		mg/Kg		09/19/19 16:02	09/26/19 03:02	1
Cadmium	ND		0.49		mg/Kg		09/19/19 16:02	09/26/19 03:02	1
Silver	ND		2.4		mg/Kg		09/19/19 16:02	09/26/19 03:02	1

Lab Sample ID: MB 550-190087/1-A  
Matrix: Solid  
Analysis Batch: 190815

Client Sample ID: Method Blank  
Prep Type: Total/NA  
Prep Batch: 190087

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	ND		2.0		mg/Kg		09/19/19 16:02	09/27/19 00:55	1
Lead	ND		0.98		mg/Kg		09/19/19 16:02	09/27/19 00:55	1
Selenium	ND		4.9		mg/Kg		09/19/19 16:02	09/27/19 00:55	1

Eurofins TestAmerica, Phoenix

# QC Sample Results

Client: Geotechnical Testing & Inspection LLC  
Project/Site: 195615E

Job ID: 550-129882-1  
SDG: Central Foothills

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

Lab Sample ID: LCS 550-190087/2-A

Matrix: Solid

Analysis Batch: 190686

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 190087

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	49.9	52.8		mg/Kg		106	80 - 110
Barium	49.9	53.4		mg/Kg		107	88 - 110
Cadmium	49.9	50.6		mg/Kg		101	83 - 110
Silver	3.74	3.70		mg/Kg		99	80 - 110

Lab Sample ID: LCS 550-190087/2-A

Matrix: Solid

Analysis Batch: 190815

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 190087

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium	49.9	46.4		mg/Kg		93	86 - 110
Lead	49.9	47.0		mg/Kg		94	83 - 110
Selenium	49.9	45.1		mg/Kg		91	80 - 110

Lab Sample ID: LCSD 550-190087/3-A

Matrix: Solid

Analysis Batch: 190686

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 190087

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	49.1	52.8		mg/Kg		107	80 - 110	0	20
Barium	49.1	52.8		mg/Kg		108	88 - 110	1	20
Cadmium	49.1	50.3		mg/Kg		102	83 - 110	1	20
Silver	3.68	3.65		mg/Kg		99	80 - 110	1	20

Lab Sample ID: LCSD 550-190087/3-A

Matrix: Solid

Analysis Batch: 190815

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 190087

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chromium	49.1	46.1		mg/Kg		94	86 - 110	1	20
Lead	49.1	47.1		mg/Kg		96	83 - 110	0	20
Selenium	49.1	45.4		mg/Kg		92	80 - 110	1	20

Lab Sample ID: 550-129882-1 MS

Matrix: Solid

Analysis Batch: 190686

Client Sample ID: B1-2'

Prep Type: Total/NA

Prep Batch: 190087

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	ND		49.0	48.2		mg/Kg		98	75 - 125
Barium	140		49.0	186		mg/Kg		105	75 - 125
Cadmium	ND		49.0	48.6		mg/Kg		99	75 - 125
Silver	ND		3.68	3.45		mg/Kg		94	75 - 125

Lab Sample ID: 550-129882-1 MS

Matrix: Solid

Analysis Batch: 190815

Client Sample ID: B1-2'

Prep Type: Total/NA

Prep Batch: 190087

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium	31		49.0	72.7		mg/Kg		85	75 - 125
Lead	7.7		49.0	49.3		mg/Kg		85	75 - 125

Eurofins TestAmerica, Phoenix



# QC Sample Results

Client: Geotechnical Testing & Inspection LLC  
Project/Site: 195615E

Job ID: 550-129882-1  
SDG: Central Foothills

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

Lab Sample ID: 550-129882-1 MS

Matrix: Solid

Analysis Batch: 190815

Client Sample ID: B1-2'

Prep Type: Total/NA

Prep Batch: 190087

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Selenium	ND	M2	49.0	24.5	M2	mg/Kg		50	75 - 125

Lab Sample ID: 550-129882-1 MSD

Matrix: Solid

Analysis Batch: 190686

Client Sample ID: B1-2'

Prep Type: Total/NA

Prep Batch: 190087

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Arsenic	ND		49.9	48.0		mg/Kg		96	75 - 125	0	20
Barium	140		49.9	190		mg/Kg		110	75 - 125	2	20
Cadmium	ND		49.9	49.8		mg/Kg		100	75 - 125	2	20
Silver	ND		3.74	3.56		mg/Kg		95	75 - 125	3	20

Lab Sample ID: 550-129882-1 MSD

Matrix: Solid

Analysis Batch: 190815

Client Sample ID: B1-2'

Prep Type: Total/NA

Prep Batch: 190087

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Chromium	31		49.9	73.3		mg/Kg		85	75 - 125	1	20
Lead	7.7		49.9	49.4		mg/Kg		83	75 - 125	0	20
Selenium	ND	M2	49.9	27.4	M2	mg/Kg		55	75 - 125	11	20

## Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 550-190185/1-A

Matrix: Solid

Analysis Batch: 190209

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 190185

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.10		mg/Kg		09/20/19 12:34	09/20/19 15:12	1

Lab Sample ID: LCS 550-190185/2-A

Matrix: Solid

Analysis Batch: 190209

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 190185

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.971	0.945		mg/Kg		97	80 - 120

Lab Sample ID: LCSD 550-190185/3-A

Matrix: Solid

Analysis Batch: 190209

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 190185

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Mercury	0.990	0.971		mg/Kg		98	80 - 120	3	20

Lab Sample ID: 550-129882-1 MS

Matrix: Solid

Analysis Batch: 190209

Client Sample ID: B1-2'

Prep Type: Total/NA

Prep Batch: 190185

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	ND		0.949	0.965		mg/Kg		102	80 - 120

Eurofins TestAmerica, Phoenix

# QC Sample Results

Client: Geotechnical Testing & Inspection LLC  
Project/Site: 195615E

Job ID: 550-129882-1  
SDG: Central Foothills

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

Lab Sample ID: 550-129882-1 MSD

Matrix: Solid

Analysis Batch: 190209

Client Sample ID: B1-2'

Prep Type: Total/NA

Prep Batch: 190185

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	ND		0.976	1.01		mg/Kg	—	104	80 - 120	5	20

# QC Association Summary

Client: Geotechnical Testing & Inspection LLC  
Project/Site: 195615E

Job ID: 550-129882-1  
SDG: Central Foothills

## HPLC/IC

### Leach Batch: 190481

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
550-129882-1	B1-2'	Soluble	Solid	DI Leach	
550-129882-2	B1-4'	Soluble	Solid	DI Leach	
550-129882-3	B2-5'	Soluble	Solid	DI Leach	
550-129882-4	B2-7'	Soluble	Solid	DI Leach	
550-129882-5	B3-2'	Soluble	Solid	DI Leach	
550-129882-6	B3-6'	Soluble	Solid	DI Leach	
550-129882-7	B4-5'	Soluble	Solid	DI Leach	
550-129882-8	B4-10'	Soluble	Solid	DI Leach	
550-129882-9	B5-7'	Soluble	Solid	DI Leach	
550-129882-10	B5-11'	Soluble	Solid	DI Leach	
550-129882-11	B6-7'	Soluble	Solid	DI Leach	
550-129882-12	B6-10'	Soluble	Solid	DI Leach	
550-129882-13	B7-2'	Soluble	Solid	DI Leach	
550-129882-14	B7-5'	Soluble	Solid	DI Leach	
550-129882-15	B8-2'	Soluble	Solid	DI Leach	
550-129882-16	B8-4'	Soluble	Solid	DI Leach	
550-129882-17	B9-5'	Soluble	Solid	DI Leach	
550-129882-18	B9-7'	Soluble	Solid	DI Leach	
550-129882-19	B10-5'	Soluble	Solid	DI Leach	
550-129882-20	B10-7'	Soluble	Solid	DI Leach	
MB 550-190481/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 550-190481/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 550-190481/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
550-129882-1 MS	B1-2'	Soluble	Solid	DI Leach	
550-129882-1 MSD	B1-2'	Soluble	Solid	DI Leach	

### Analysis Batch: 190730

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
550-129882-9	B5-7'	Soluble	Solid	314.0	190481
550-129882-10	B5-11'	Soluble	Solid	314.0	190481
550-129882-11	B6-7'	Soluble	Solid	314.0	190481
550-129882-12	B6-10'	Soluble	Solid	314.0	190481
550-129882-13	B7-2'	Soluble	Solid	314.0	190481
550-129882-14	B7-5'	Soluble	Solid	314.0	190481
550-129882-15	B8-2'	Soluble	Solid	314.0	190481
550-129882-16	B8-4'	Soluble	Solid	314.0	190481
550-129882-17	B9-5'	Soluble	Solid	314.0	190481
550-129882-18	B9-7'	Soluble	Solid	314.0	190481
550-129882-19	B10-5'	Soluble	Solid	314.0	190481
550-129882-20	B10-7'	Soluble	Solid	314.0	190481
MB 550-190481/1-A	Method Blank	Soluble	Solid	314.0	190481
LCS 550-190481/2-A	Lab Control Sample	Soluble	Solid	314.0	190481
LCSD 550-190481/3-A	Lab Control Sample Dup	Soluble	Solid	314.0	190481

### Analysis Batch: 190854

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
550-129882-1	B1-2'	Soluble	Solid	314.0	190481
550-129882-2	B1-4'	Soluble	Solid	314.0	190481
550-129882-3	B2-5'	Soluble	Solid	314.0	190481
550-129882-4	B2-7'	Soluble	Solid	314.0	190481
550-129882-5	B3-2'	Soluble	Solid	314.0	190481

Eurofins TestAmerica, Phoenix

# QC Association Summary

Client: Geotechnical Testing & Inspection LLC  
Project/Site: 195615E

Job ID: 550-129882-1  
SDG: Central Foothills

## HPLC/IC (Continued)

### Analysis Batch: 190854 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
550-129882-6	B3-6'	Soluble	Solid	314.0	190481
550-129882-7	B4-5'	Soluble	Solid	314.0	190481
550-129882-8	B4-10'	Soluble	Solid	314.0	190481
550-129882-1 MS	B1-2'	Soluble	Solid	314.0	190481
550-129882-1 MSD	B1-2'	Soluble	Solid	314.0	190481

## Metals

### Prep Batch: 190087

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
550-129882-1	B1-2'	Total/NA	Solid	3050B	
550-129882-2	B1-4'	Total/NA	Solid	3050B	
550-129882-3	B2-5'	Total/NA	Solid	3050B	
550-129882-4	B2-7'	Total/NA	Solid	3050B	
550-129882-5	B3-2'	Total/NA	Solid	3050B	
550-129882-6	B3-6'	Total/NA	Solid	3050B	
550-129882-7	B4-5'	Total/NA	Solid	3050B	
550-129882-8	B4-10'	Total/NA	Solid	3050B	
550-129882-9	B5-7'	Total/NA	Solid	3050B	
550-129882-10	B5-11'	Total/NA	Solid	3050B	
550-129882-11	B6-7'	Total/NA	Solid	3050B	
550-129882-12	B6-10'	Total/NA	Solid	3050B	
550-129882-13	B7-2'	Total/NA	Solid	3050B	
550-129882-14	B7-5'	Total/NA	Solid	3050B	
550-129882-15	B8-2'	Total/NA	Solid	3050B	
550-129882-16	B8-4'	Total/NA	Solid	3050B	
550-129882-17	B9-5'	Total/NA	Solid	3050B	
550-129882-18	B9-7'	Total/NA	Solid	3050B	
550-129882-19	B10-5'	Total/NA	Solid	3050B	
550-129882-20	B10-7'	Total/NA	Solid	3050B	
MB 550-190087/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 550-190087/2-A	Lab Control Sample	Total/NA	Solid	3050B	
LCSD 550-190087/3-A	Lab Control Sample Dup	Total/NA	Solid	3050B	
550-129882-1 MS	B1-2'	Total/NA	Solid	3050B	
550-129882-1 MSD	B1-2'	Total/NA	Solid	3050B	

### Prep Batch: 190185

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
550-129882-1	B1-2'	Total/NA	Solid	7471B	
550-129882-2	B1-4'	Total/NA	Solid	7471B	
550-129882-3	B2-5'	Total/NA	Solid	7471B	
550-129882-4	B2-7'	Total/NA	Solid	7471B	
550-129882-5	B3-2'	Total/NA	Solid	7471B	
550-129882-6	B3-6'	Total/NA	Solid	7471B	
550-129882-7	B4-5'	Total/NA	Solid	7471B	
550-129882-8	B4-10'	Total/NA	Solid	7471B	
550-129882-9	B5-7'	Total/NA	Solid	7471B	
550-129882-10	B5-11'	Total/NA	Solid	7471B	
550-129882-11	B6-7'	Total/NA	Solid	7471B	
550-129882-12	B6-10'	Total/NA	Solid	7471B	
550-129882-13	B7-2'	Total/NA	Solid	7471B	

# QC Association Summary

Client: Geotechnical Testing & Inspection LLC  
Project/Site: 195615E

Job ID: 550-129882-1  
SDG: Central Foothills

## Metals (Continued)

### Prep Batch: 190185 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
550-129882-14	B7-5'	Total/NA	Solid	7471B	
550-129882-15	B8-2'	Total/NA	Solid	7471B	
550-129882-16	B8-4'	Total/NA	Solid	7471B	
550-129882-17	B9-5'	Total/NA	Solid	7471B	
550-129882-18	B9-7'	Total/NA	Solid	7471B	
550-129882-19	B10-5'	Total/NA	Solid	7471B	
550-129882-20	B10-7'	Total/NA	Solid	7471B	
MB 550-190185/1-A	Method Blank	Total/NA	Solid	7471B	
LCS 550-190185/2-A	Lab Control Sample	Total/NA	Solid	7471B	
LCSD 550-190185/3-A	Lab Control Sample Dup	Total/NA	Solid	7471B	
550-129882-1 MS	B1-2'	Total/NA	Solid	7471B	
550-129882-1 MSD	B1-2'	Total/NA	Solid	7471B	

### Analysis Batch: 190209

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
550-129882-1	B1-2'	Total/NA	Solid	7471B	190185
550-129882-2	B1-4'	Total/NA	Solid	7471B	190185
550-129882-3	B2-5'	Total/NA	Solid	7471B	190185
550-129882-4	B2-7'	Total/NA	Solid	7471B	190185
550-129882-5	B3-2'	Total/NA	Solid	7471B	190185
550-129882-6	B3-6'	Total/NA	Solid	7471B	190185
550-129882-7	B4-5'	Total/NA	Solid	7471B	190185
550-129882-8	B4-10'	Total/NA	Solid	7471B	190185
550-129882-9	B5-7'	Total/NA	Solid	7471B	190185
550-129882-10	B5-11'	Total/NA	Solid	7471B	190185
550-129882-11	B6-7'	Total/NA	Solid	7471B	190185
550-129882-12	B6-10'	Total/NA	Solid	7471B	190185
550-129882-13	B7-2'	Total/NA	Solid	7471B	190185
550-129882-14	B7-5'	Total/NA	Solid	7471B	190185
550-129882-15	B8-2'	Total/NA	Solid	7471B	190185
550-129882-16	B8-4'	Total/NA	Solid	7471B	190185
550-129882-17	B9-5'	Total/NA	Solid	7471B	190185
550-129882-18	B9-7'	Total/NA	Solid	7471B	190185
550-129882-19	B10-5'	Total/NA	Solid	7471B	190185
550-129882-20	B10-7'	Total/NA	Solid	7471B	190185
MB 550-190185/1-A	Method Blank	Total/NA	Solid	7471B	190185
LCS 550-190185/2-A	Lab Control Sample	Total/NA	Solid	7471B	190185
LCSD 550-190185/3-A	Lab Control Sample Dup	Total/NA	Solid	7471B	190185
550-129882-1 MS	B1-2'	Total/NA	Solid	7471B	190185
550-129882-1 MSD	B1-2'	Total/NA	Solid	7471B	190185

### Analysis Batch: 190686

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
550-129882-1	B1-2'	Total/NA	Solid	6010C	190087
550-129882-2	B1-4'	Total/NA	Solid	6010C	190087
550-129882-3	B2-5'	Total/NA	Solid	6010C	190087
550-129882-4	B2-7'	Total/NA	Solid	6010C	190087
550-129882-5	B3-2'	Total/NA	Solid	6010C	190087
550-129882-6	B3-6'	Total/NA	Solid	6010C	190087
550-129882-7	B4-5'	Total/NA	Solid	6010C	190087
550-129882-8	B4-10'	Total/NA	Solid	6010C	190087

Eurofins TestAmerica, Phoenix



# QC Association Summary

Client: Geotechnical Testing & Inspection LLC  
Project/Site: 195615E

Job ID: 550-129882-1  
SDG: Central Foothills

## Metals (Continued)

### Analysis Batch: 190686 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
550-129882-9	B5-7'	Total/NA	Solid	6010C	190087
550-129882-10	B5-11'	Total/NA	Solid	6010C	190087
550-129882-11	B6-7'	Total/NA	Solid	6010C	190087
550-129882-12	B6-10'	Total/NA	Solid	6010C	190087
550-129882-13	B7-2'	Total/NA	Solid	6010C	190087
550-129882-14	B7-5'	Total/NA	Solid	6010C	190087
550-129882-15	B8-2'	Total/NA	Solid	6010C	190087
550-129882-16	B8-4'	Total/NA	Solid	6010C	190087
550-129882-17	B9-5'	Total/NA	Solid	6010C	190087
550-129882-18	B9-7'	Total/NA	Solid	6010C	190087
550-129882-19	B10-5'	Total/NA	Solid	6010C	190087
550-129882-20	B10-7'	Total/NA	Solid	6010C	190087
MB 550-190087/1-A	Method Blank	Total/NA	Solid	6010C	190087
LCS 550-190087/2-A	Lab Control Sample	Total/NA	Solid	6010C	190087
LCSD 550-190087/3-A	Lab Control Sample Dup	Total/NA	Solid	6010C	190087
550-129882-1 MS	B1-2'	Total/NA	Solid	6010C	190087
550-129882-1 MSD	B1-2'	Total/NA	Solid	6010C	190087

### Analysis Batch: 190815

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
550-129882-1	B1-2'	Total/NA	Solid	6010C	190087
550-129882-2	B1-4'	Total/NA	Solid	6010C	190087
550-129882-3	B2-5'	Total/NA	Solid	6010C	190087
550-129882-4	B2-7'	Total/NA	Solid	6010C	190087
550-129882-5	B3-2'	Total/NA	Solid	6010C	190087
550-129882-6	B3-6'	Total/NA	Solid	6010C	190087
550-129882-7	B4-5'	Total/NA	Solid	6010C	190087
550-129882-8	B4-10'	Total/NA	Solid	6010C	190087
550-129882-9	B5-7'	Total/NA	Solid	6010C	190087
550-129882-10	B5-11'	Total/NA	Solid	6010C	190087
550-129882-11	B6-7'	Total/NA	Solid	6010C	190087
550-129882-12	B6-10'	Total/NA	Solid	6010C	190087
550-129882-13	B7-2'	Total/NA	Solid	6010C	190087
550-129882-14	B7-5'	Total/NA	Solid	6010C	190087
550-129882-15	B8-2'	Total/NA	Solid	6010C	190087
550-129882-16	B8-4'	Total/NA	Solid	6010C	190087
550-129882-17	B9-5'	Total/NA	Solid	6010C	190087
550-129882-18	B9-7'	Total/NA	Solid	6010C	190087
550-129882-19	B10-5'	Total/NA	Solid	6010C	190087
550-129882-20	B10-7'	Total/NA	Solid	6010C	190087
MB 550-190087/1-A	Method Blank	Total/NA	Solid	6010C	190087
LCS 550-190087/2-A	Lab Control Sample	Total/NA	Solid	6010C	190087
LCSD 550-190087/3-A	Lab Control Sample Dup	Total/NA	Solid	6010C	190087
550-129882-1 MS	B1-2'	Total/NA	Solid	6010C	190087
550-129882-1 MSD	B1-2'	Total/NA	Solid	6010C	190087

# Lab Chronicle

Client: Geotechnical Testing & Inspection LLC  
Project/Site: 195615E

Job ID: 550-129882-1  
SDG: Central Foothills

**Client Sample ID: B1-2'**

**Date Collected: 09/18/19 07:10**

**Date Received: 09/18/19 13:34**

**Lab Sample ID: 550-129882-1**

**Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			190481	09/24/19 16:52	NEL	TAL PHX
Soluble	Analysis	314.0		1	190854	09/26/19 14:19	NEL	TAL PHX
Total/NA	Prep	3050B			190087	09/19/19 16:02	MGM	TAL PHX
Total/NA	Analysis	6010C		1	190686	09/26/19 03:17	SRA	TAL PHX
Total/NA	Prep	3050B			190087	09/19/19 16:02	MGM	TAL PHX
Total/NA	Analysis	6010C		1	190815	09/27/19 01:10	SRA	TAL PHX
Total/NA	Prep	7471B			190185	09/20/19 12:34	BCV	TAL PHX
Total/NA	Analysis	7471B		1	190209	09/20/19 15:25	BCV	TAL PHX

**Client Sample ID: B1-4'**

**Date Collected: 09/18/19 07:14**

**Date Received: 09/18/19 13:34**

**Lab Sample ID: 550-129882-2**

**Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			190481	09/24/19 16:52	NEL	TAL PHX
Soluble	Analysis	314.0		1	190854	09/26/19 14:42	NEL	TAL PHX
Total/NA	Prep	3050B			190087	09/19/19 16:02	MGM	TAL PHX
Total/NA	Analysis	6010C		1	190686	09/26/19 03:20	SRA	TAL PHX
Total/NA	Prep	3050B			190087	09/19/19 16:02	MGM	TAL PHX
Total/NA	Analysis	6010C		1	190815	09/27/19 01:13	SRA	TAL PHX
Total/NA	Prep	7471B			190185	09/20/19 12:34	BCV	TAL PHX
Total/NA	Analysis	7471B		1	190209	09/20/19 15:27	BCV	TAL PHX

**Client Sample ID: B2-5'**

**Date Collected: 09/18/19 07:22**

**Date Received: 09/18/19 13:34**

**Lab Sample ID: 550-129882-3**

**Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			190481	09/24/19 16:52	NEL	TAL PHX
Soluble	Analysis	314.0		1	190854	09/26/19 15:05	NEL	TAL PHX
Total/NA	Prep	3050B			190087	09/19/19 16:02	MGM	TAL PHX
Total/NA	Analysis	6010C		1	190686	09/26/19 03:22	SRA	TAL PHX
Total/NA	Prep	3050B			190087	09/19/19 16:02	MGM	TAL PHX
Total/NA	Analysis	6010C		1	190815	09/27/19 01:16	SRA	TAL PHX
Total/NA	Prep	7471B			190185	09/20/19 12:34	BCV	TAL PHX
Total/NA	Analysis	7471B		1	190209	09/20/19 15:29	BCV	TAL PHX

**Client Sample ID: B2-7'**

**Date Collected: 09/18/19 07:23**

**Date Received: 09/18/19 13:34**

**Lab Sample ID: 550-129882-4**

**Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			190481	09/24/19 16:52	NEL	TAL PHX
Soluble	Analysis	314.0		1	190854	09/26/19 15:28	NEL	TAL PHX

# Lab Chronicle

Client: Geotechnical Testing & Inspection LLC  
Project/Site: 195615E

Job ID: 550-129882-1  
SDG: Central Foothills

**Client Sample ID: B2-7'**

**Date Collected: 09/18/19 07:23**

**Date Received: 09/18/19 13:34**

**Lab Sample ID: 550-129882-4**

**Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			190087	09/19/19 16:02	MGM	TAL PHX
Total/NA	Analysis	6010C		1	190686	09/26/19 03:25	SRA	TAL PHX
Total/NA	Prep	3050B			190087	09/19/19 16:02	MGM	TAL PHX
Total/NA	Analysis	6010C		1	190815	09/27/19 01:18	SRA	TAL PHX
Total/NA	Prep	7471B			190185	09/20/19 12:34	BCV	TAL PHX
Total/NA	Analysis	7471B		1	190209	09/20/19 15:31	BCV	TAL PHX

**Client Sample ID: B3-2'**

**Date Collected: 09/18/19 07:33**

**Date Received: 09/18/19 13:34**

**Lab Sample ID: 550-129882-5**

**Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			190481	09/24/19 16:52	NEL	TAL PHX
Soluble	Analysis	314.0		1	190854	09/26/19 15:51	NEL	TAL PHX
Total/NA	Prep	3050B			190087	09/19/19 16:02	MGM	TAL PHX
Total/NA	Analysis	6010C		1	190686	09/26/19 03:27	SRA	TAL PHX
Total/NA	Prep	3050B			190087	09/19/19 16:02	MGM	TAL PHX
Total/NA	Analysis	6010C		1	190815	09/27/19 01:20	SRA	TAL PHX
Total/NA	Prep	7471B			190185	09/20/19 12:34	BCV	TAL PHX
Total/NA	Analysis	7471B		1	190209	09/20/19 15:33	BCV	TAL PHX

**Client Sample ID: B3-6'**

**Date Collected: 09/18/19 07:35**

**Date Received: 09/18/19 13:34**

**Lab Sample ID: 550-129882-6**

**Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			190481	09/24/19 16:52	NEL	TAL PHX
Soluble	Analysis	314.0		1	190854	09/26/19 16:13	NEL	TAL PHX
Total/NA	Prep	3050B			190087	09/19/19 16:02	MGM	TAL PHX
Total/NA	Analysis	6010C		1	190686	09/26/19 03:30	SRA	TAL PHX
Total/NA	Prep	3050B			190087	09/19/19 16:02	MGM	TAL PHX
Total/NA	Analysis	6010C		1	190815	09/27/19 01:23	SRA	TAL PHX
Total/NA	Prep	7471B			190185	09/20/19 12:34	BCV	TAL PHX
Total/NA	Analysis	7471B		1	190209	09/20/19 15:35	BCV	TAL PHX

**Client Sample ID: B4-5'**

**Date Collected: 09/18/19 07:44**

**Date Received: 09/18/19 13:34**

**Lab Sample ID: 550-129882-7**

**Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			190481	09/24/19 16:52	NEL	TAL PHX
Soluble	Analysis	314.0		1	190854	09/26/19 16:36	NEL	TAL PHX
Total/NA	Prep	3050B			190087	09/19/19 16:02	MGM	TAL PHX
Total/NA	Analysis	6010C		1	190686	09/26/19 03:32	SRA	TAL PHX

# Lab Chronicle

Client: Geotechnical Testing & Inspection LLC  
Project/Site: 195615E

Job ID: 550-129882-1  
SDG: Central Foothills

**Client Sample ID: B4-5'**

**Date Collected: 09/18/19 07:44**

**Date Received: 09/18/19 13:34**

**Lab Sample ID: 550-129882-7**

**Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			190087	09/19/19 16:02	MGM	TAL PHX
Total/NA	Analysis	6010C		1	190815	09/27/19 01:25	SRA	TAL PHX
Total/NA	Prep	7471B			190185	09/20/19 12:34	BCV	TAL PHX
Total/NA	Analysis	7471B		1	190209	09/20/19 15:37	BCV	TAL PHX

**Client Sample ID: B4-10'**

**Date Collected: 09/18/19 07:52**

**Date Received: 09/18/19 13:34**

**Lab Sample ID: 550-129882-8**

**Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			190481	09/24/19 16:52	NEL	TAL PHX
Soluble	Analysis	314.0		1	190854	09/26/19 16:59	NEL	TAL PHX
Total/NA	Prep	3050B			190087	09/19/19 16:02	MGM	TAL PHX
Total/NA	Analysis	6010C		1	190686	09/26/19 03:35	SRA	TAL PHX
Total/NA	Prep	3050B			190087	09/19/19 16:02	MGM	TAL PHX
Total/NA	Analysis	6010C		1	190815	09/27/19 01:28	SRA	TAL PHX
Total/NA	Prep	7471B			190185	09/20/19 12:34	BCV	TAL PHX
Total/NA	Analysis	7471B		1	190209	09/20/19 15:39	BCV	TAL PHX

**Client Sample ID: B5-7'**

**Date Collected: 09/18/19 08:35**

**Date Received: 09/18/19 13:34**

**Lab Sample ID: 550-129882-9**

**Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			190481	09/24/19 16:52	NEL	TAL PHX
Soluble	Analysis	314.0		1	190730	09/25/19 20:35	NEL	TAL PHX
Total/NA	Prep	3050B			190087	09/19/19 16:02	MGM	TAL PHX
Total/NA	Analysis	6010C		1	190686	09/26/19 03:37	SRA	TAL PHX
Total/NA	Prep	3050B			190087	09/19/19 16:02	MGM	TAL PHX
Total/NA	Analysis	6010C		1	190815	09/27/19 01:30	SRA	TAL PHX
Total/NA	Prep	7471B			190185	09/20/19 12:34	BCV	TAL PHX
Total/NA	Analysis	7471B		1	190209	09/20/19 15:41	BCV	TAL PHX

**Client Sample ID: B5-11'**

**Date Collected: 09/18/19 08:37**

**Date Received: 09/18/19 13:34**

**Lab Sample ID: 550-129882-10**

**Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			190481	09/24/19 16:52	NEL	TAL PHX
Soluble	Analysis	314.0		1	190730	09/25/19 20:58	NEL	TAL PHX
Total/NA	Prep	3050B			190087	09/19/19 16:02	MGM	TAL PHX
Total/NA	Analysis	6010C		1	190686	09/26/19 03:40	SRA	TAL PHX
Total/NA	Prep	3050B			190087	09/19/19 16:02	MGM	TAL PHX
Total/NA	Analysis	6010C		1	190815	09/27/19 01:33	SRA	TAL PHX

# Lab Chronicle

Client: Geotechnical Testing & Inspection LLC  
Project/Site: 195615E

Job ID: 550-129882-1  
SDG: Central Foothills

**Client Sample ID: B5-11'**

**Date Collected: 09/18/19 08:37**

**Date Received: 09/18/19 13:34**

**Lab Sample ID: 550-129882-10**

**Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7471B			190185	09/20/19 12:34	BCV	TAL PHX
Total/NA	Analysis	7471B		1	190209	09/20/19 15:43	BCV	TAL PHX

**Client Sample ID: B6-7'**

**Date Collected: 09/18/19 08:49**

**Date Received: 09/18/19 13:34**

**Lab Sample ID: 550-129882-11**

**Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			190481	09/24/19 16:52	NEL	TAL PHX
Soluble	Analysis	314.0		1	190730	09/25/19 21:21	NEL	TAL PHX
Total/NA	Prep	3050B			190087	09/19/19 16:02	MGM	TAL PHX
Total/NA	Analysis	6010C		1	190686	09/26/19 03:48	SRA	TAL PHX
Total/NA	Prep	3050B			190087	09/19/19 16:02	MGM	TAL PHX
Total/NA	Analysis	6010C		1	190815	09/27/19 01:41	SRA	TAL PHX
Total/NA	Prep	7471B			190185	09/20/19 12:34	BCV	TAL PHX
Total/NA	Analysis	7471B		1	190209	09/20/19 15:49	BCV	TAL PHX

**Client Sample ID: B6-10'**

**Date Collected: 09/18/19 08:50**

**Date Received: 09/18/19 13:34**

**Lab Sample ID: 550-129882-12**

**Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			190481	09/24/19 16:52	NEL	TAL PHX
Soluble	Analysis	314.0		1	190730	09/25/19 21:44	NEL	TAL PHX
Total/NA	Prep	3050B			190087	09/19/19 16:02	MGM	TAL PHX
Total/NA	Analysis	6010C		1	190686	09/26/19 03:51	SRA	TAL PHX
Total/NA	Prep	3050B			190087	09/19/19 16:02	MGM	TAL PHX
Total/NA	Analysis	6010C		1	190815	09/27/19 01:44	SRA	TAL PHX
Total/NA	Prep	7471B			190185	09/20/19 12:34	BCV	TAL PHX
Total/NA	Analysis	7471B		1	190209	09/20/19 15:51	BCV	TAL PHX

**Client Sample ID: B7-2'**

**Date Collected: 09/18/19 08:59**

**Date Received: 09/18/19 13:34**

**Lab Sample ID: 550-129882-13**

**Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			190481	09/24/19 16:52	NEL	TAL PHX
Soluble	Analysis	314.0		1	190730	09/25/19 22:07	NEL	TAL PHX
Total/NA	Prep	3050B			190087	09/19/19 16:02	MGM	TAL PHX
Total/NA	Analysis	6010C		1	190686	09/26/19 03:54	SRA	TAL PHX
Total/NA	Prep	3050B			190087	09/19/19 16:02	MGM	TAL PHX
Total/NA	Analysis	6010C		1	190815	09/27/19 01:46	SRA	TAL PHX
Total/NA	Prep	7471B			190185	09/20/19 12:34	BCV	TAL PHX
Total/NA	Analysis	7471B		1	190209	09/20/19 15:53	BCV	TAL PHX



# Lab Chronicle

Client: Geotechnical Testing & Inspection LLC  
Project/Site: 195615E

Job ID: 550-129882-1  
SDG: Central Foothills

**Client Sample ID: B7-5'**

**Lab Sample ID: 550-129882-14**

**Date Collected: 09/18/19 09:01**

**Matrix: Solid**

**Date Received: 09/18/19 13:34**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			190481	09/24/19 16:52	NEL	TAL PHX
Soluble	Analysis	314.0		1	190730	09/25/19 22:29	NEL	TAL PHX
Total/NA	Prep	3050B			190087	09/19/19 16:02	MGM	TAL PHX
Total/NA	Analysis	6010C		1	190686	09/26/19 03:56	SRA	TAL PHX
Total/NA	Prep	3050B			190087	09/19/19 16:02	MGM	TAL PHX
Total/NA	Analysis	6010C		1	190815	09/27/19 01:49	SRA	TAL PHX
Total/NA	Prep	7471B			190185	09/20/19 12:34	BCV	TAL PHX
Total/NA	Analysis	7471B		1	190209	09/20/19 15:55	BCV	TAL PHX

**Client Sample ID: B8-2'**

**Lab Sample ID: 550-129882-15**

**Date Collected: 09/18/19 09:14**

**Matrix: Solid**

**Date Received: 09/18/19 13:34**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			190481	09/24/19 16:52	NEL	TAL PHX
Soluble	Analysis	314.0		1	190730	09/25/19 22:52	NEL	TAL PHX
Total/NA	Prep	3050B			190087	09/19/19 16:02	MGM	TAL PHX
Total/NA	Analysis	6010C		1	190686	09/26/19 03:59	SRA	TAL PHX
Total/NA	Prep	3050B			190087	09/19/19 16:02	MGM	TAL PHX
Total/NA	Analysis	6010C		1	190815	09/27/19 01:51	SRA	TAL PHX
Total/NA	Prep	7471B			190185	09/20/19 12:34	BCV	TAL PHX
Total/NA	Analysis	7471B		1	190209	09/20/19 15:57	BCV	TAL PHX

**Client Sample ID: B8-4'**

**Lab Sample ID: 550-129882-16**

**Date Collected: 09/18/19 09:17**

**Matrix: Solid**

**Date Received: 09/18/19 13:34**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			190481	09/24/19 16:52	NEL	TAL PHX
Soluble	Analysis	314.0		1	190730	09/26/19 00:01	NEL	TAL PHX
Total/NA	Prep	3050B			190087	09/19/19 16:02	MGM	TAL PHX
Total/NA	Analysis	6010C		1	190686	09/26/19 04:01	SRA	TAL PHX
Total/NA	Prep	3050B			190087	09/19/19 16:02	MGM	TAL PHX
Total/NA	Analysis	6010C		1	190815	09/27/19 01:54	SRA	TAL PHX
Total/NA	Prep	7471B			190185	09/20/19 12:34	BCV	TAL PHX
Total/NA	Analysis	7471B		1	190209	09/20/19 15:59	BCV	TAL PHX

**Client Sample ID: B9-5'**

**Lab Sample ID: 550-129882-17**

**Date Collected: 09/18/19 10:24**

**Matrix: Solid**

**Date Received: 09/18/19 13:34**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			190481	09/24/19 16:52	NEL	TAL PHX
Soluble	Analysis	314.0		1	190730	09/26/19 00:24	NEL	TAL PHX

# Lab Chronicle

Client: Geotechnical Testing & Inspection LLC  
Project/Site: 195615E

Job ID: 550-129882-1  
SDG: Central Foothills

**Client Sample ID: B9-5'**

**Date Collected: 09/18/19 10:24**

**Date Received: 09/18/19 13:34**

**Lab Sample ID: 550-129882-17**

**Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			190087	09/19/19 16:02	MGM	TAL PHX
Total/NA	Analysis	6010C		1	190686	09/26/19 04:04	SRA	TAL PHX
Total/NA	Prep	3050B			190087	09/19/19 16:02	MGM	TAL PHX
Total/NA	Analysis	6010C		1	190815	09/27/19 01:56	SRA	TAL PHX
Total/NA	Prep	7471B			190185	09/20/19 12:34	BCV	TAL PHX
Total/NA	Analysis	7471B		1	190209	09/20/19 16:01	BCV	TAL PHX

**Client Sample ID: B9-7'**

**Date Collected: 09/18/19 10:25**

**Date Received: 09/18/19 13:34**

**Lab Sample ID: 550-129882-18**

**Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			190481	09/24/19 16:52	NEL	TAL PHX
Soluble	Analysis	314.0		1	190730	09/26/19 00:47	NEL	TAL PHX
Total/NA	Prep	3050B			190087	09/19/19 16:02	MGM	TAL PHX
Total/NA	Analysis	6010C		1	190686	09/26/19 04:07	SRA	TAL PHX
Total/NA	Prep	3050B			190087	09/19/19 16:02	MGM	TAL PHX
Total/NA	Analysis	6010C		1	190815	09/27/19 01:59	SRA	TAL PHX
Total/NA	Prep	7471B			190185	09/20/19 12:34	BCV	TAL PHX
Total/NA	Analysis	7471B		1	190209	09/20/19 16:03	BCV	TAL PHX

**Client Sample ID: B10-5'**

**Date Collected: 09/18/19 10:34**

**Date Received: 09/18/19 13:34**

**Lab Sample ID: 550-129882-19**

**Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			190481	09/24/19 16:52	NEL	TAL PHX
Soluble	Analysis	314.0		1	190730	09/26/19 01:10	NEL	TAL PHX
Total/NA	Prep	3050B			190087	09/19/19 16:02	MGM	TAL PHX
Total/NA	Analysis	6010C		1	190686	09/26/19 04:09	SRA	TAL PHX
Total/NA	Prep	3050B			190087	09/19/19 16:02	MGM	TAL PHX
Total/NA	Analysis	6010C		1	190815	09/27/19 02:02	SRA	TAL PHX
Total/NA	Prep	7471B			190185	09/20/19 12:34	BCV	TAL PHX
Total/NA	Analysis	7471B		1	190209	09/20/19 16:05	BCV	TAL PHX

**Client Sample ID: B10-7'**

**Date Collected: 09/18/19 10:35**

**Date Received: 09/18/19 13:34**

**Lab Sample ID: 550-129882-20**

**Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			190481	09/24/19 16:52	NEL	TAL PHX
Soluble	Analysis	314.0		1	190730	09/26/19 01:33	NEL	TAL PHX
Total/NA	Prep	3050B			190087	09/19/19 16:02	MGM	TAL PHX
Total/NA	Analysis	6010C		1	190686	09/26/19 04:12	SRA	TAL PHX

## Lab Chronicle

Client: Geotechnical Testing & Inspection LLC  
Project/Site: 195615E

Job ID: 550-129882-1  
SDG: Central Foothills

**Client Sample ID: B10-7'**

**Date Collected: 09/18/19 10:35**

**Date Received: 09/18/19 13:34**

**Lab Sample ID: 550-129882-20**

**Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			190087	09/19/19 16:02	MGM	TAL PHX
Total/NA	Analysis	6010C		1	190815	09/27/19 02:05	SRA	TAL PHX
Total/NA	Prep	7471B			190185	09/20/19 12:34	BCV	TAL PHX
Total/NA	Analysis	7471B		1	190209	09/20/19 16:07	BCV	TAL PHX

### Laboratory References:

TAL PHX = Eurofins TestAmerica, Phoenix, 4625 East Cotton Ctr Blvd, Suite 189, Phoenix, AZ 85040, TEL (602)437-3340

## Accreditation/Certification Summary

Client: Geotechnical Testing & Inspection LLC  
Project/Site: 195615E

Job ID: 550-129882-1  
SDG: Central Foothills

### Laboratory: Eurofins TestAmerica, Phoenix

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

Authority	Program	Identification Number	Expiration Date
Arizona	State Program	AZ0728	06-09-20

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
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## Method Summary

Client: Geotechnical Testing & Inspection LLC  
Project/Site: 195615E

Job ID: 550-129882-1  
SDG: Central Foothills

Method	Method Description	Protocol	Laboratory
314.0	Perchlorate (IC)	EPA	TAL PHX
6010C	Metals (ICP)	SW846	TAL PHX
7471B	Mercury (CVAA)	SW846	TAL PHX
3050B	Preparation, Metals	SW846	TAL PHX
7471B	Preparation, Mercury	SW846	TAL PHX
DI Leach	Deionized Water Leaching Procedure	ASTM	TAL PHX

### Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

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

### Laboratory References:

TAL PHX = Eurofins TestAmerica, Phoenix, 4625 East Cotton Ctr Blvd, Suite 189, Phoenix, AZ 85040, TEL (602)437-3340



# Chain of Custody Record

360152 eurofins

Environment Testing  
TestAmerica

Address: \_\_\_\_\_

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other: \_\_\_\_\_

129882

TAL-8210

Client Contact		Project Manager: <u>Taylor Eppers</u>		Site Contact:		Date:		COC No.:	
Company Name: <u>G T I</u>		Tel/Email: <u>Taylor@gti.com</u>		Lab Contact:		Carrier:		Sampler: <u>Taylor</u>	
Address:		Analysis Turnaround Time						For Lab Use Only:	
City/State/Zip:		<input type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS						Walk-in Client:	
Phone:		TAT if different from Below						Lab Sampling:	
Fax:		<input type="checkbox"/> 1 week <input type="checkbox"/> 2 weeks <input type="checkbox"/> 1 day						Job / SDG No.: <u>195615E</u>	
Project Name: <u>195615E</u>									
Site: <u>Carval Footfills</u>									
P O #									

Sample Identification	Sample Date	Sample Time	Sample Type (c=Comp, g=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	Sample Specific Notes
-1 B1-2'	9/18	7:10	G	S	1		X	BCRA Metals
-2 B1-4'		7:14					X	Perchlorate
-3 B2-5'		7:22						
-4 B2-7'		7:23						
-5 B3-2'		7:33						
-6 B3-6'		7:35						
-7 B4-5'		7:44						
-8 B4-10'		7:52						
-9 B5-7'		8:35						
-10 B5-11'		8:37						
-11 B6-7'		8:44						
-12 B6-10'		8:50						

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

Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No

Custody Seal No.: \_\_\_\_\_

Relinquished by: [Signature] Company: G T I Date/Time: 9/18/19 13:34 Received by: [Signature] Company: [Signature] Date/Time: 9/18/19 13:34


Relinquished by: \_\_\_\_\_ Company: \_\_\_\_\_ Date/Time: \_\_\_\_\_ Received in Laboratory by: [Signature] Company: ATM Date/Time: 9/18/19 13:34

Cooler Temp. (°C): Obs'd: \_\_\_\_\_ Cond: 1.3°C Therm ID No.: \_\_\_\_\_

☐ Return to Client ☐ Dispose by Lab ☐ Archive for \_\_\_\_\_ Months

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

550-129882 Chain of Custody



# Chain of Custody Record

360151



Environment Testing  
TestAmerica

Address: \_\_\_\_\_

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other: \_\_\_\_\_

TAL-8210

129882

Client Contact		Project Manager: Taylor Edwards		Site Contact:		COC No. 2 of 2 COCs	
Company Name: GTI		Tel/Email: 7610-2697142.604		Lab Contact:		Sampler:	
Address:		Analysis Turnaround Time				For Lab Use Only:	
City/State/Zip:		<input type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS				Walk-in Client:	
Phone:		TAT if different from Below				Lab Sampling:	
Fax:		2 weeks				Job / SDG No.: 195615E	
Project Name: 195615E		1 week					
Site: Central Facilities		2 days					
PO #		1 day					
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Sample Specific Notes:
-13	B7-2'	9/18	8:59	G	S	1	
-14	B7-5'		9:01				
-15	B8-2'		9:14				
-16	B8-4'		9:17				
-17	B9-5'		10:24				
-18	B9-7'		10:25				
-19	B10-5'		10:34				
-20	B10-7'		10:35				
Preservation Used: 1=Ice, 2=HCl, 3=H2SO4, 4=HNO3, 5=NaOH, 6=Other		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)					
Possible Hazard Identification:							
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.							
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown		<input type="checkbox"/> Return to Client <input type="checkbox"/> Disposal by Lab <input type="checkbox"/> Archive for _____ Months					
Special Instructions/QC Requirements & Comments:		Cooler Temp. (°C): Obs'd: 11.3°C Therm ID No.: cdb					
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No	Custody Seal No.:						
Relinquished by: Taylor Edwards	Company: GTI	Date/Time: 9/18/19 13:34	Received by:	Company:	Date/Time:		
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:		
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:		

## Login Sample Receipt Checklist

Client: Geotechnical Testing & Inspection LLC

Job Number: 550-129882-1

SDG Number: Central Foothills

**Login Number: 129882**

**List Number: 1**

**Creator: Maycock, Lisa**

**List Source: Eurofins TestAmerica, Phoenix**

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





## Chain of Custody Record

360152

Environment Testing  
TestAmerica

Address: \_\_\_\_\_

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other: \_\_\_\_\_

TAL-8210

Client Contact		Project Manager: <u>Taylor Eppers</u>		Site Contact:		Date:		COC No.:	
Company Name: <u>GTI</u>		Tel/E-mail: <u>Taylor@gti.net</u>		Analyst Turnaround Time		Carrier:		1 of 2 COCs	
Address:		<input type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS		TAT if different from Below				Sampler: <u>Taylor</u>	
City/State/Zip:								For Lab Use Only:	
Phone:								Walk-in Client:	
Fax:								Lab Sampling:	
Project Name: <u>195615E</u>								Job / SDG No.: <u>195615E</u>	
Site: <u>Caval Feathills</u>									
P O #									
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	
-1	B1-2'	9/18	7:10	G	S	1	X	BCRA Metals	
-2	B1-4'		7:14				X	Perchlorate	
-3	B2-5'		7:22						
-4	B2-7'		7:23						
-5	B3-2'		7:33						
-6	B3-6'		7:35						
-7	B4-5'		7:44						
-8	B4-10'		7:52						
-9	B5-7'		8:35						
-10	B5-11'		8:37						
-11	B6-7'		8:44						
-12	B6-10'		8:50						
Preservation Used: 1=Ice, 2=HCl, 3=H2SO4, 4=HNO3, 5=NaOH, 6=Other _____									
Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.									
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown									
Special Instructions/QC Requirements & Comments:									
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.:		Cooler Temp. (°C): Obs'd: _____		Therm ID No.:		Archive for _____ Months	
Relinquished by: <u>Taylor Eppers</u>		Company: <u>GTI</u>		Date/Time: <u>9/18/19 13:34</u>		Received by: _____		Company: _____	
Relinquished by: _____		Company: _____		Date/Time: _____		Received in Laboratory by: _____		Company: <u>ATM</u>	
Relinquished by: _____		Company: _____		Date/Time: _____		Received in Laboratory by: _____		Company: _____	
Relinquished by: _____		Company: _____		Date/Time: _____		Received in Laboratory by: _____		Company: _____	



550-129882 Chain of Custody

11.3°C  
Cob

## Chain of Custody Record 360151

Environment Testing  
TestAmerica

Address: \_\_\_\_\_

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other: \_\_\_\_\_

TAL-8210

Client Contact		Project Manager: Taylor Eppers		Site Contact:		Date:		COC No:	
Company Name:	GTE	Tel/Email:	Taylor Eppers	Lab Contact:		Carrier:		2 of 2 COCs	
Address:		Analysis Turnaround Time							
City/State/Zip:		<input type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS							
Phone:		TAT if different from Below							
Fax:		2 weeks							
Project Name:	195615E	1 week							
Site:	Central Facilities	2 days							
P.O. #		1 day							
Sample Identification		Sample Date	Sample Time	Sample Type (G-Comp, G-Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	Sample Specific Notes:
-13	B7-2'	9/18	8:59	G	S	1		RCRA Metals	
-14	B7-5'		9:01					Perchlorate	
-15	B8-2'		9:14						
-16	B8-4'		9:17						
-17	B9-5'		10:24						
-18	B9-7'		10:25						
-19	B10-5'		10:34						
-20	B10-7'		10:35						
Preservation Used: 1=Ice, 2=HCl, 3=H2SO4, 4=HNO3, 5=NaOH, 6=Other _____									
Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.									
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown									
<input type="checkbox"/> Return to Client <input type="checkbox"/> Dispose by Lab <input type="checkbox"/> Archive for _____ Months									
Special Instructions/QC Requirements & Comments:									
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.:		Cooler Temp. (°C): Obs'd: _____		Term ID No.:			
Relinquished by: Taylor Eppers		Company: GTE		Date/Time: 9/18/19 13:34		Received by: [Signature]		Company: [Signature]	
Relinquished by:		Company:		Date/Time:		Received by:		Company:	
Relinquished by:		Company:		Date/Time:		Received by:		Company:	