

**Appendix F:**  
**Phase II – Soil & Groundwater Investigation**

# geologica

## Report

### Phase II Soil & Groundwater Investigation

**Pin High Golf Center & 3 Adjacent Parcels  
4701 North First Street  
San Jose, California 95002**

Submitted to:

**Terra Hospitality, Inc.**

**March 17, 2016**

Prepared by:

**Geologica Inc.**

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*Innovative Strategies for Managing Environmental Liability*

March 17, 2016

Terra Hospitality, Inc.  
c/o CBRE  
225 W. Santa Clara Street, 10<sup>th</sup> Floor  
San Jose, CA 95113

Attention: Mr. Jag Kapoor

**DRAFT Report  
Phase II Soil & Groundwater Investigation  
Pin High Golf Center & 3 Adjacent Parcels  
4701 North First Street  
San Jose, California**

Dear Mr. Kapoor:

GEOLOGICA INC. is pleased to present this Report summarizing recent Phase II Soil & Groundwater sampling and testing at the above-referenced property.

We have enjoyed working with you on this project and appreciate the opportunity to be of service. Should you have any questions, please do not hesitate to contact us at (415) 597-7888.

Very truly yours,  
GEOLOGICA, INC.

Daniel W. Matthews, P.G.  
Associate Hydrogeologist

Brian F. Aubry, P.G., C.E.G., C.Hg.  
Principal

# TABLE OF CONTENTS

1	INTRODUCTION & PURPOSE .....	1
2	SITE DESCRIPTION & HISTORY.....	1
2.1	Site Location and Description .....	1
2.2	Property Summary History .....	2
3	SURFACE & SUBSURFACE CONDITIONS .....	2
3.1	Topography.....	3
3.2	Soil Conditions .....	3
3.3	Surface Water .....	3
3.4	Groundwater Conditions.....	4
4	PREVIOUS SITE INVESTIGATIONS.....	4
4.1	Geotechnical Engineering Reports.....	4
4.1.1	USE (1985): Preliminary Soil & Foundation Investigation / Piezometer Installation .....	4
4.1.2	Terrasearch (1987): Geotechnical Feasibility Evaluation.....	5
4.1.3	USE (2001): Updated Geotechnical Investigation.....	5
4.2	Environmental Investigation reports .....	5
4.2.1	E2C (1996): Phase I & II Environmental Site Assessment.....	6
4.2.2	E2C (2004a): Precursor Summary Phase I Environmental Assessment.....	6
4.2.3	E2C (2004b): Phase II Environmental Site Assessment .....	6
5	SCOPE OF WORK.....	8
5.1	Initial Soil & Groundwater Testing — January 2016.....	8
5.1.1	Preliminary Activities .....	9
5.1.2	Soil and Groundwater “Grab” Sampling Locations .....	9
5.1.3	Drilling and Soil Sampling procedures.....	9
5.1.4	Soil analytical Testing Program .....	10
5.1.5	Groundwater “Grab” Sampling Procedures.....	10
5.1.6	Groundwater Analytical Testing Program .....	11
5.2	Supplemental Soil & Groundwater Testing — February 2016 .....	11
5.2.1	Supplemental Soil Sampling & Testing .....	11
5.2.2	Supplemental Groundwater Sampling.....	12
6	SOIL AND GROUNDWATER ANALYTICAL RESULTS .....	12
6.1	Soil and Groundwater Conditions.....	12
6.1.1	Soils Encountered at the Site .....	12
6.1.2	Groundwater Occurrence .....	12
6.2	Soil Sampling Analytical Results .....	13
6.2.1	Total Petroleum Hydrocarbons (TPH).....	13
6.2.2	Pesticides.....	13
6.2.3	Metals .....	14
6.2.4	Polychlorinated Biphenyls (PCBs).....	14
6.2.5	Volatile Organic Compounds (VOCs) .....	14
6.3	Groundwater Sampling Analytical Results .....	14

## Table of Contents, cont'd.

6.3.1	Total Petroleum Hydrocarbons (TPH).....	15
6.3.2	Volatile Organic Compounds (VOCs) .....	16
6.3.3	Dissolved Metals .....	16
7	SUMMARY & DISCUSSION .....	16
7.1	Review of Previous and Current Results.....	16
7.2	Soil.....	16
7.2.1	Overview .....	16
7.2.2	Total Petroleum Hydrocarbons .....	17
7.2.3	Metals .....	17
7.2.4	Other Constituents .....	17
7.2.5	Soil Testing Implications for Redevelopment .....	18
7.3	Groundwater .....	18
7.3.1	Total Petroleum Hydrocarbons (TPH).....	18
7.3.2	Volatile Organic Compounds (VOCs) .....	18
8	CONCLUSIONS & RECOMMENDATIONS .....	19
	REFERENCES .....	21

### FIGURES

- 1 Site Vicinity Map
- 2 Summary of Previous Soil Sampling Results
- 3 Summary of Previous Groundwater Sampling Results
- 4 Summary of Soil Sampling Results
- 5 Summary of Groundwater “Grab” Sampling Result

### TABLES

- 1 Soil Sampling Analytical Results
- 2 Groundwater Sampling Analytical Results

### APPENDICES

- A E2C (2004b) Previous Phase II Investigation
- B Laboratory Analytical Testing Reports

# 1 INTRODUCTION & PURPOSE

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This report presents the results of a Phase II soil and groundwater sampling and testing program conducted by GEOLOGICA, INC. (GEOLOGICA) at the 4701 North First Street properties. The 36-acre property is located in the Alviso section San Jose, California (“subject property” or “site”) and the general location of the property is shown on **Figure 1**. This testing program was developed based on discussions with Mr. Nick Whitstone of CBRE on behalf of Terra Hospitality, Inc. (Terra Hospitality). This Phase II work was conducted at the request of Mr. Jag Kapoor of Terra Hospitality, in accordance with our initial proposal for *Screening-Level Soil & Groundwater Testing* dated November 11, 2015 and a follow-up proposal for *Supplemental Soil & Groundwater Sampling and Analysis* dated February 8, 2016.

The purpose of the work performed was to develop screening-level soil and groundwater chemical testing data in order to assess current site conditions and to preliminarily assess whether excavated soil and produced groundwater may require special handling and / or disposal during grading and excavation for redevelopment of the property. It is our understanding that the property is to be redeveloped for various commercial / industrial uses; residential occupancy is not being contemplated.

## 2 SITE DESCRIPTION & HISTORY

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The following sections summarize background information regarding the property.

### 2.1 Site Location and Description

The site comprises approximately 36 acres and is located in the northern (Alviso) area of the city of San Jose, CA (**Figure 1**). The property is identified by Santa Clara County Assessor’s parcel numbers:

- 015-39-020 (10.3 acres) referred to herein as “Parcel 020”;
- 015-39-026 (24.1 acres) referred to herein as “Parcel 026”;
- 015-39-027 (~0.1 acre) referred to herein as “Parcel 027”;
- 015-03-012 (0.6 acre) referred to herein as “Parcel 012”; and,
- 015-03-018 (1.4 acres) referred to herein as “Parcel 018”.

The Pin High Golf Center (4701 N. First Street) occupies the western two-thirds of Parcel 020 and the eastern half of Parcel 026; an recreational vehicle (RV) storage yard occupies the western half of Parcel 026; a Verizon cell phone tower facility occupies Parcel 027; and Parcels 012 and 018 are undeveloped lots at the west end of the property. The elongated, irregularly-shaped site is bounded on the north by North First Street, on the west by Liberty Street, on the

south by Moffat Street and the Guadalupe River channel, and on the east by undeveloped land (**Figure 1**).

## 2.2 Property Summary History

The subject property has reportedly been under the same ownership since approximately 1940 to the present time. Various tenants have occupied portions of the property during that time. The subject property was mostly farmland from before 1939 until around 1970. A complex of farm buildings (some of which may date back to before 1899) was located near the middle of Parcel 026 until the late 1960s or early 1970s. There were also several buildings of uncertain use on the south side of Parcel 018 from before 1939 until the late 1960s or early 1970s. One or two inferred homes were present in the northwest corner of Parcel 012 from the early 1950s until the late 1970s. Parcels 012 and 018 subsequently remained vacant until the present.

More recently, Turner Equipment & Grading (Turner) and Excel Landscape (Excel) first occupied their portions of Parcel 026 in the 1980s, and then vacated by about 2009. In the late 1980s to early 1990s, the middle portion of Parcel 026 was being used as a storage yard for trailers, boats, and the like, while the rest of the site was vacant. The latter storage yard was replaced by the Pin High Golf Center in 1993/1994. The existing RV storage yard in the western half of Parcel 026 opened between 1993 and 1996.

Based on anecdotal information, it appears that areas in Alviso in the site vicinity were used historically, to varying degrees, as informal or formal dumping grounds for excess soils and demolition debris. For example, the Syntax Court Waste Disposal site is situated to the west of the property, near the intersection of Highway 237 and North First Street. In addition, the South Bay Asbestos Area is located in the acreage to the east of the site. It has been determined that the subject property is not within the bounds of either the Syntax Court Disposal Site or the South Bay Asbestos Area. In a geotechnical report investigating the site, Terrasearch (1987) noted that this site was previously: *“at or below sea level, and the present topography is the result of a continuing program of land fill.”* The site elevation has apparently been raised at least in part to reduce the flood hazard. Other site investigations, described in **Section 4**, indicate that significant amounts of fill material with incorporated concrete and asphalt debris have apparently been placed in areas of the site over the years. The sources of the soils and debris are largely unknown. Fill may have started to be placed in Parcel 020 and in the eastern half of Parcel 026 in the 1960s, about the time when the Guadalupe River was channelized. Additional fill may have been placed starting in the late 1970s and extending to the late 1980s.

## 3 SURFACE & SUBSURFACE CONDITIONS

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The following sections summarize the physical setting of the site based on previous work performed at the site by Terrasearch (1987) and USE (2001). These studies are summarized in more detail in **Section 4**.

### 3.1 Topography

The property is located at the north end of the Santa Clara Valley. The property is situated on the coastal plain immediately south of tidal flats that fringe the southern San Francisco Bay. The topography in this part of San Jose has a very gentle slope to the north. However, the Diablo Range is located only about six miles to the east. Based on review of the U.S. Geological Survey's Milpitas topographic quadrangle (USGS, 1980), the natural elevation of the subject property appears to range from about sea level to approximately 5 feet above mean sea level. As noted above in **Section 2.2**, the site elevation has been raised by the placement of imported fill soils during and prior to the mid-1980s, at least in part, to reduce the flood hazard. Terrasearch (1987) reported 1 to 10 feet of un-compacted and undocumented fill material across the whole property. The fill material in places contains significant accumulations of concrete and asphalt debris as described in **Section 3.2**.

### 3.2 Soil Conditions

The subject site is located on a coastal plain near the tidal flats of the southern San Francisco Bay. Surficial sediments at the site have been classified as Holocene-age levee deposits, consisting of loose, moderate- to well-sorted sandy or clayey silt grading to sandy or silty clay (Helley et al, 1994). The former river channel at the southeast end of the site is mapped as a floodplain deposit (Helley et al, 1994).

As noted above, up to 14 feet of fill materials have been placed on top of native soils at the site. Terrasearch (1987) reports:

*“the entire site is covered with uncompacted fill and rubble ranging from 1 to 10 feet in thickness. Approximately 90% of the rubble consists of non-degradable broken concrete slabs. Beneath the fill, the native soils consist of basically medium stiff sandy silty clays with some local soft pockets.”*

USE (2001) noted that there was *“a 14 feet thick concrete debris and gravel layer in the southeastern portion of the golf course and the low-lying area.”* In a previous geotechnical report for the site, USE (1985) noted that *“at the time of our investigation, various organic debris, concrete blocks, and other refuse were being added to extend the fill area still further”* to the southeast in Parcel 020. USE (2001) describes native site soils as *“stiff silty clay”* to a depth of at least 35 feet.

### 3.3 Surface Water

The nearest significant surface water body is the channelized Guadalupe River, located along the southern border of the golf course (**Figure 1**). A former incised meander loop of the river is located along (and within) the southeast boundary of the subject site. This former channel segment is isolated from the present-day river channel. The channel segment apparently



intersects the water table and therefore is believed to reflect first groundwater conditions. Several feet of perennial standing water has been observed.

### 3.4 Groundwater Conditions

Shallow (First) Groundwater – USE (2001) indicated that groundwater was encountered in soil borings at depths of approximately 14 to 15 feet below ground surface (bgs). In contrast, boring logs in USE (1985) indicated that groundwater was encountered at depths in the range of about 7 to 18 feet, with most logs reporting groundwater at 7 to 8 feet bgs. Boring logs by Terrasearch (1987) reported that groundwater was encountered at depths in the range of 5 to 16 feet bgs. Shallow groundwater beneath the site is not a source of drinking water.

Deeper Groundwater – Subsurface data from the adjacent Syntax Court site indicated a deeper groundwater-bearing sandy zone is present at >33 feet bgs (GEOLOGICA, 2015). The deeper zone was found to be physically separated from the shallow groundwater-bearing zone by a 5 to 10-foot thick silt and clay horizon. Analyses of groundwater grab samples indicated that the deeper zone has higher salinity than the shallow groundwater (chloride concentrations up to 8,400 mg/L versus 2,000 mg/L, respectively). This suggests that the deeper zone has been impacted by salt water intrusion from San Francisco Bay.

Groundwater Flow Direction – Although the prevailing groundwater gradient is believed to be northwesterly parallel to the Guadalupe River, and towards San Francisco Bay, monitoring well data from the nearby Syntax Court site to the southeast (**Figure 1**) indicated that the site flow direction in shallow groundwater appears to have reversed in the last few years to be southeasterly, probably reflecting drought conditions (GEOLOGICA, 2015).

## 4 PREVIOUS SITE INVESTIGATIONS

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The following sections summarize a number of environmental site assessment and geotechnical reports that have been prepared for the subject property and were provided by the seller.

### 4.1 Geotechnical Engineering Reports

#### 4.1.1 USE (1985): PRELIMINARY SOIL & FOUNDATION INVESTIGATION / PIEZOMETER INSTALLATION

This investigation was conducted to determine the nature of the surface and subsurface soil at the site. The investigation included 13 exploratory test borings, the collection of soil samples for geotechnical and pollutant analyses, and the installation of two piezometers for groundwater “pollutant testing.” The pollutant testing was reportedly conducted by Safety Specialists, Inc.; however, the type of analyses and results are not discussed in this USE report. Soil boring depths ranged from 17½ feet to 40 feet bgs. USE found that “*varying amounts of fill and refuse currently exist on the site. The thickness of this fill material varies throughout the site.*” The fill thickness ranged from 5 to 12½ feet, and was generally thicker towards the south. USE reported

that “at the time of our investigation, various organic debris, concrete blocks, and other refuse were being added to extend the fill area still further.” Groundwater depth varied from 7 to 18 feet bgs among the borings. Piezometer borings, located on Parcel 020 and Parcel 026, were drilled to a depth of 23 feet bgs. USE was requested to close these piezometers in 1989. There is no regulatory file evidence that the piezometers were properly abandoned / closed under permit.

#### **4.1.2 TERRASEARCH (1987): GEOTECHNICAL FEASIBILITY EVALUATION**

This investigation, performed on former APN 015-39-016 (later re-parceled to 015-39-026 and 027) and Parcel 020, was for a proposed development of a mobile home park. The fieldwork included 7 borings and 11 backhoe test pits to collect soil samples for geotechnical testing. The depth to groundwater reported in the Terrasearch boring logs ranged from 5 to 16 ft bgs. Terrasearch (1987) noted that this site was previously “at or below sea level, and the present topography is the result of a continuing program of landfill.” The Terrasearch report concluded that “the entire site is covered with uncompacted fill and rubble ranging from 1 to 10 feet in thickness. Approximately 90% of the rubble consists of non-degradable broken concrete slabs.”

#### **4.1.3 USE (2001): UPDATED GEOTECHNICAL INVESTIGATION**

At the time of this field investigation, the site was described as “an irregular-shaped, relatively flat parcel of land with scattered drainage channels located around the boundary of the site. An existing golf course and low-lying area occupied the eastern portion of the site. The central portion of the site was occupied by an RV storage yard...The northern section of the property was a vacant parcel of land. Due to the operation of the golf course, during our previous investigation we could not gain access to the golf course and low-lying area adjacent to it. However, during this updated investigation access to the above-mentioned area was available.” The fieldwork consisted of 7 soil borings completed to depths ranging from 7 to 35 feet bgs. Groundwater was encountered in three of the borings at a depth of 15-16 feet bgs. USE (2001) noted that there was “a 14 feet thick concrete debris and gravel layer in the southeastern portion of the golf course and the low-lying area.” Figure 2 of the USE report shows that the concrete-laden fill underlies the entire southern half of the golf course and the western half of Parcel 020.

## **4.2 Environmental Investigation reports**

The following sections summarize previous environmental studies. One study (E2C, 2004b) summarized below in **Section 4.2.4** included relevant soil and groundwater testing. Soil and groundwater analytical results of the E2C (2004b) Phase II investigation are summarized in **Tables A-1** through **A-4** in **Appendix A**. Key portions of the E2C (2004b) report, including report text and figures, are also reproduced in **Appendix A**. Soil sample locations and results from the vacant parcels are shown on **Figure 2a** and the Turner Equipment and Pin High Maintenance Area are shown on **Figure 2b**. Groundwater sampling locations and analytical results are shown in **Figure 3**.

#### 4.2.1 E2C (1996): PHASE I & II ENVIRONMENTAL SITE ASSESSMENT

This assessment was performed for the entire subject site. At the time of the study, land use at the site was the same as current usage, except for a small section of Parcel 026 located on the south side of Moffat Street, at the east end of that street [currently vacant]. Two businesses leased that portion of the parcel: Turner Equipment & Grading and Excel Landscape. Excel was reported to have a 55-gallon drum, several partially full 5-gallon containers of used oil and coolant, and vehicle batteries stored on a wooden pallet. The premises of Turner were recorded as being relatively clean, but the ground surface was stained with petroleum products in several areas. E2C (1996) attributed the staining to leakage from vehicles. During their site inspection, E2C observed “numerous mounds of temporarily-stored soils” on Parcels 012 and 018. The maintenance area at Pin High was noted to have an aboveground 500-gallon gasoline tank. E2C reported that all areas at Pin High were very clean and well maintained. Additionally, asbestos testing was conducted at 15 locations to evaluate for asbestos in the onsite fill. Sampling locations were not identified, but did not include the Turner and Excel premises. The laboratory analyses did not detect the presence of asbestos in any of the samples. E2C concluded that was no adverse environmental impact from past and present activity on the subject site.

#### 4.2.2 E2C (2004A): PRECURSOR SUMMARY PHASE I ENVIRONMENTAL ASSESSMENT

This study included Parcels 026, 027, and an adjacent property located on the south side of Moffat Street at Liberty Street. The environmental assessment was mainly comprised of a site inspection for each lessee along with photographs. E2C (2004a) identified the following concerns: 1) significant oil staining near the automotive lift and the waste oil basin at Turner Excavation, 2) a 55-gallon diesel tank at Pin High Maintenance Area that was in noncompliance due to the absence of secondary containment and inadequate support from its steel frame mount, 3) a 150-gallon aboveground diesel tank and battery acid associated with an emergency generator at the Verizon Wireless cell tower facility, and 4) unlabeled waste drums at Excel Landscape. E2C (2004a) recommended Phase II soil sampling at Turner and Pin High to assess possible environmental impacts.

#### 4.2.3 E2C (2004B): PHASE II ENVIRONMENTAL SITE ASSESSMENT

This Phase II investigation was conducted as a follow-up to the Precursor Phase I Assessment (E2C, 2004a) to evaluate for potential contamination at three target areas: the Pin High Maintenance Area, Turner Equipment & Grading, and the vacant Parcels 012 and 018. E2C’s investigation included a second phase of “step out” soil sampling after chemicals of concern (COCs) were identified during the first phase. Over 80 soil samples were analyzed by E2C (2004b). Soil and groundwater analytical results of the E2C (2004b) Phase II investigation are summarized in **Tables A-1** through **A-4** in **Appendix A**. Key portions of the E2C (2004b) report, including report text and figures, are also reproduced in **Appendix A**. Depending on the location, soil samples were analyzed for:

- Total Petroleum Hydrocarbons (TPH) as diesel & motor oil
- Total Oil & Grease (TOG)
- Metals
- Pesticides
- Polychlorinated Biphenyls (PCBs)
- Volatile Organic Compounds (VOCs).

Grab groundwater samples were collected for testing from each of the three target areas.

Results - The soil analytical data indicated the presence of TPH as diesel, TPH as motor oil (TPH-d, TPH-mo) or TOG at locations in all three target areas. Heavy metals such as arsenic, selenium, thallium, and mercury were noted at Turner Equipment and the vacant parcels. Traces of some pesticides and PCBs were noted within the vacant parcels. No VOCs were detected in any of the samples. Chemicals of concern were not detected in the three grab groundwater samples. Laboratory reports showing the results of PCB and pesticide analysis were not included in the report and were only summarized in their data tables as being non-detect.

Based on our review of the laboratory reports in E2C's Appendix A, the E2C (2004b) summary data tables omitted many of the test results. Soil and groundwater analytical results of E2C's Phase II investigation are summarized in **Table A-1** through **A-4** in **Appendix A**. Soil sample locations and results from the vacant parcels are shown on **Figure 2a** and the Turner and Pin High Maintenance Area are shown on **Figure 2b**. Groundwater sampling locations and analytical results are shown in **Figure 3**.

- Total Petroleum Hydrocarbons - TPH-d was detected in 18 soil samples from the Pin High Maintenance Area at concentrations ranging from 1.7 milligrams per kilogram (mg/kg) to 716 mg/kg. TPH-mo was detected at concentrations of up to 1,250 mg/kg. TPH-d was detected in seven soil samples from Turner Equipment at concentrations in the range of 10-115 mg/kg. TOG was also detected in two samples from Turner Equipment at concentrations of 110 mg/kg and 4,700 mg/kg. Numerous samples from the vacant parcels contained TPH-d (0.6-985 mg/kg) and TPH-mo (1-1,748 mg/kg).
- Metals - Arsenic was detected in numerous samples from Turner Equipment at concentrations in the range of 6.7-33 mg/kg. Arsenic was detected in numerous samples from the vacant parcels in the range of 6.8-155 mg/kg, with most samples reporting less than 20 mg/kg. Background concentrations of arsenic in the Bay Area usually range up to about 15 mg/kg. Selenium was detected in three samples from Turner Equipment at concentrations in the range of 7.9-11 mg/kg. Selenium was detected in five samples from the vacant parcels at concentrations in the range of 8.5-13 mg/kg. Thallium was

detected in one sample from Turner Equipment at a concentration of 11.3 mg/kg. Thallium was detected in six samples from the vacant parcels in the range of 5.2-17 mg/kg. Mercury was detected in eight samples from Turner Equipment at concentrations of 0.074 - 4 mg/kg. Mercury was detected in numerous samples from the vacant parcels at concentrations in the range of 0.055-18 mg/kg, with all but two samples less than 10 mg/kg.

E2C (2004b) Summary & Recommendations - Based on environmental sampling and analysis conducted in June and August, 2004 by E2C (2004b), concentrations of total petroleum hydrocarbons, metals, pesticides, and PCBs appeared to be present at concentrations greater than Environmental Screening Levels (ESLs) established at that time by the Regional Water Quality Control Board (RWQCB).

E2C (2004b) outlined three areas where soils should be excavated and removed for proper disposal. Areas outlined for removal are shown in the E2C (2004b) report figures reproduced in **Appendix A** of this report. However, based on GEOLOGICA'S recent discussion with James Rees, a representative of the property owner, this remedial work was never conducted. Mr. Rees indicated that it was expected that remediation, if necessary, would be conducted at the time of site redevelopment.

#### **4.2.4 OFF-SITE ENVIRONMENTAL STUDIES**

Recent environmental sampling and analysis has independently identified a groundwater VOC plume on the adjacent property, the 237 @ North First Street Development Project, located to the southeast of the subject property (GEOLOGICA, 2015). Investigation work conducted on the 237 @ North First Street Development Site indicates that northwesterly groundwater gradients towards the subject property may have occurred in the past. Low levels of several VOCs have been detected in groundwater near the southeastern property boundary of the Pin High facility, suggesting that low levels of VOCs may have migrated onto the subject property.

## **5 SCOPE OF WORK**

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GEOLOGICA conducted field work in two phases, with an initial phase of work conducted in January 2016. Results of the initial field work motivated a follow-on, supplemental scope of work in February 2016. The scope of work conducted and sampling and analysis procedures are described in sections below. Sampling results are presented in **Section 6**.

### **5.1 Initial Soil & Groundwater Testing — January 2016**

GEOLOGICA performed the initial field investigation as described in the *Screening-Level Soil and Groundwater Testing Proposal*, dated November 11, 2015. The sampling program was designed to confirm results from the E2C (2004b) Phase II assessment and evaluate current soil and groundwater conditions on the property, as well as to assess whether excavated soil and

produced groundwater may require special handling and / or disposal during grading and excavation for redevelopment of the property.

### 5.1.1 PRELIMINARY ACTIVITIES

Prior to performing any field activities, GEOLOGICA coordinated with on-site personnel, obtained necessary permits / access, marked soil boring locations and notified Underground Services Alert (USA) to identify utilities approaching the site. Drilling at the site did not require a drilling permit from the Santa Clara Valley Water District. A private utility locating service, under subcontract to GEOLOGICA, cleared the individual borehole locations of onsite utilities.

### 5.1.2 SOIL AND GROUNDWATER “GRAB” SAMPLING LOCATIONS

Eleven soil and groundwater sample borings (GP-1 to GP-11) were completed and sampled across the subject property, as follows:

- GP-1 through GP-4 were on the Pin High Golf Center property.
- GP-5 and GP-6 were in Pin High Maintenance Area.
- GP-7 and GP-8 were within the former Turner and Excel property.
- GP-9 was within the RV Lot.
- GP-10 and GP-11 were located on the vacant Parcels 12 and 18.

The soil and groundwater borings were installed and sampled on January 21 and 22, 2016. Soil and groundwater boring locations are shown on **Figures 4 and 5**.

### 5.1.3 DRILLING AND SOIL SAMPLING PROCEDURES

The soil borings were completed using a Geoprobe® track rig operated by Cascade Drilling (Cascade) of Richmond, California. Cascade utilized the Geoprobe® brand, Dual Tube Sampling System to collect continuous soil cores and to install temporary groundwater monitoring wells to facilitate collection of “grab” groundwater samples. The Dual Tube Sampling System uses two concentric sets of probe rods. Each boring was advanced by hydraulically hammering the outer 2½-inch diameter (OD) probe rod into the ground as an outer casing. The second, smaller set of probe rods was sized to fit inside the outer casing and was advanced with the outer casing. The smaller diameter probe rods hold acetate soil sample collection liners in place as the outer casing is driven in 4-foot increments from the ground surface to bottom depths that ranged between 16 and 24 feet bgs. After advancing the Dual Tube casing 4 feet, the inner probe rod is retracted to retrieve the soil filled liner. The outer casing remains in place as the boring is advanced to reduce cross contamination between different soil intervals. All of the borings were continuously cored to observe and document



soil conditions and assess for the presence of groundwater. Borings were backfilled and abandoned on the day they were completed.

Observations regarding soil characteristics at the boring locations were recorded in a field notebook. Soil samples were screened in the field using a hand held photoionization detector (PID) to screen for the presence of petroleum hydrocarbons.

To collect soil samples, the acetate liner was cut to the selected interval and capped with Teflon tape. Soil samples were collected from sample intervals exhibiting visual or olfactory indications of contamination and/or at approximately every 4 feet bgs where possible. Soil samples were stored on ice and transferred to the analytical laboratory following EPA chain-of-custody (COC) procedures.

#### **5.1.4 SOIL ANALYTICAL TESTING PROGRAM**

The soil samples were analyzed by Test America, a California-certified analytical laboratory. Samples were tested for:

- TPH-gasoline & VOCs by EPA Method 8260B,
- TPH-d and TPH-mo by EPA Method 8015M; and,
- CAM 17 metals by EPA Methods 6010/7470.

Selected samples were also tested for:

- Organochlorine pesticides by EPA Method 8081A; and,
- PCBs by 8082.

Samples for TPH-d/mo analysis were processed with silica gel cleanup. The silica gel cleanup step is intended to remove natural organic carbon that could result in a false positive detection of petroleum when decaying vegetation or other non-petroleum materials are present. All sample results were reported on a dry weight basis.

#### **5.1.5 GROUNDWATER “GRAB” SAMPLING PROCEDURES**

Groundwater “grab” samples were collected from borings GP-1, GP-2, GP-3, GP-6, GP-7, and GP-10. Samples were collected after completing soil sampling and removing the inner probe rod from the Dual Tube casing string. Temporary wells were constructed with clean, 3/4-inch diameter (OD) PVC casing and 10 feet of slotted PVC screen set inside the outer probe casing to the bottom of the boring. After setting the PVC well casing, the outer probe rod was carefully retracted to a height of 1 to 2 feet above the temporary well screen to allow groundwater to enter the boring. Groundwater samples were collected using a peristaltic pump

with dedicated tubing to fill laboratory-supplied sample containers. Samples were stored on ice and transferred to the analytical laboratory following EPA COC procedures.

### 5.1.6 GROUNDWATER ANALYTICAL TESTING PROGRAM

The six groundwater “grab” samples were analyzed for:

- TPH-gas and VOCs by EPA Method 8260B.
- TPH-d and TPH-mo by EPA Method 8015M;
- Dissolved CAM 17 metals by EPA Methods 6010/7470;

Samples for TPH analysis were processed with silica gel cleanup to remove natural organic carbon. Samples collected for metals analysis were filtered and preserved by the analytical laboratory.

## 5.2 Supplemental Soil & Groundwater Testing — February 2016

Based on results of the initial January 2016 sampling program, GEOLOGICA recommended supplemental soil and groundwater sampling to further assess site conditions. The proposal included “step-out” sampling in borings in the vicinity of GP-2 due to elevated detections of TPH-d and TPH-mo. Soil boring locations are shown on **Figure 4** and **5**.

### 5.2.1 SUPPLEMENTAL SOIL SAMPLING & TESTING

On February 23, 2016, GEOLOGICA oversaw the advancement of five additional soil borings to collect additional soil and groundwater samples in the vicinity of boring GP-2 as follows:

- Four “step-out” boring (GP-2-N, GP-2-S GP-2-E, and GP-2-W) were placed 50 ft to the north, south, east, and west of GP-2.
- An additional step-out boring (GP-2-E2) was located 150 ft east of GP-2.

The total depths of the soil borings ranged from 20 to 28 ft bgs. Soil borings were advanced using the same procedures and drilling techniques as described in **Section 5.1**. Soil samples were collected at 4, 8, 12 ft bgs. Soil samples were submitted to Test America and analyzed for:

- TPH-d and TPH-mo by EPA Method 8015M with silica gel cleanup.

In addition, several archived soil samples from the January 2016 sampling program were tested by Curtis and Tompkins Laboratory of Berkeley, CA. Soil samples were analyzed as follows:



- Soil samples GP-2-3.5-4', GP-3-3.5-4', GP-4-3.5-4', GP-5-4.5-5', GP-7-3.5-4', GP-9-4.5-5', and GP-11-3.5-4' were tested for chlorinated pesticides by EPA Method 8081A.
- Soil samples GP-1-11.5-12' and GP-2-11.5-12' were tested for TPH-d and TPH-mo by EPA Method 8015M.
- Soil samples GP-2-11.5-12', GP-5-11.5-12', and GP-6-11.5-12' were tested for nickel, zinc, and lead, respectively by EPA Method 6010.

Samples for TPH analysis were processed with silica gel cleanup. All sample results were reported on a dry weight basis.

## **5.2.2 SUPPLEMENTAL GROUNDWATER SAMPLING**

GEOLOGICA collected groundwater samples from each of the 5 supplemental soil borings using the same sampling techniques described above. Groundwater samples were submitted to Test America and analyzed for:

- TPH-d and TPH-mo by EPA Method 8015M with silica gel cleanup.

## **6 SOIL AND GROUNDWATER ANALYTICAL RESULTS**

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The following sections summarize the results from the January and February 2016 sampling events at the subject property.

### **6.1 Soil and Groundwater Conditions**

#### **6.1.1 SOILS ENCOUNTERED AT THE SITE**

Based on borings advanced for the current study to depths varying from 16 to 24 ft below ground surface (bgs), the site is immediately underlain by non-engineered fill material comprising clayey sands and sandy clays. Occasional concrete and asphalt fragments were noted in the fill material, but drilling refusal did not occur.

#### **6.1.2 GROUNDWATER OCCURRENCE**

Groundwater was encountered at depths of approximately 10 to 14 feet bgs at the Site in January and February 2016. The boring locations were not surveyed so a site specific groundwater flow direction could not be determined. Generally northwesterly flow towards the Guadalupe River and San Francisco bay is expected. However, recent drought conditions may have resulted in temporary variations in flow directions.

## 6.2 Soil Sampling Analytical Results

Soil analytical results are summarized in **Table 1**, presented on **Figure 4**, and discussed below. To provide a context with which to evaluate the significance of the results, the soil analytical results were compared to the February 2016 RWQCB Environmental Screening Levels (ESLs) for commercial/industrial Direct Exposure and Soil to Groundwater Leaching as shown on **Table 1**.

### 6.2.1 TOTAL PETROLEUM HYDROCARBONS (TPH)

No TPH as gasoline was detected. However, TPH-d and TPH-mo were detected in one or more soil samples from every boring, as follows:

- Pin High Golf Center (GP-1 to GP-4) - TPH-d was detected at concentrations up to 1,400 mg/kg while TPH-mo was detected up to 4,800 mg/kg. The highest concentration of both TPH-d and TPH-mo were reported in soil boring GP-2. The most elevated detections were in the 7.5-8 ft depth and, to a lesser extent, in the 3.5-4 ft depth. TPH-d was detected in the four step-out borings (GP-2-E, GP-2-E2, GP-2-W, GP-2-N, and GP-S) at concentrations ranging from 1.4 to 610 mg/kg; TPH-mo was detected in the step-out boring soil samples at concentrations ranging from 230 to 1,900 mg/kg.
- Pin High Maintenance Yard (GP-5 and GP-6) - TPH-d was detected at concentrations up to 46 mg/kg while TPH-mo was detected up to 90 mg/kg.
- Turner & Excel Yard (GP-7 and GP-8) - TPH-d was detected at concentrations up to 21 mg/kg while TPH-mo was detected up to 110 mg/kg.
- RV Yard (GP-9) - TPH-d was detected at concentrations up to 56 mg/kg while TPH-mo was detected up to 240 mg/kg.
- Vacant Lots (GP-10 and GP-11) - TPH-d was detected at concentrations up to 400 mg/kg while TPH-mo was detected up to 2,100 mg/kg.

The RWQCB has established ESLs for Direct Exposure of 1,200 mg/kg and 140,000 mg/kg for TPH-d and TPH-mo, respectively. Only one sample, GP-2-7.5-8', had a TPH-d detection greater than the Direct Exposure ESL of 1,200 mg/kg. TPH-d was not reported at concentrations greater than the Soil to Groundwater Leaching ESL of 3,600 mg/kg. None of the reported TPH-mo concentrations exceeded the Direct Exposure ESL of 140,000 mg/kg.

### 6.2.2 PESTICIDES

The pesticides 4,4'-DDD, 4,4'-DDE, 4,4'-DDT, alpha-chlordane, gamma-chlordane, and dieldrin were detected at generally low concentrations in one or more samples from soil borings GP-1, GP-5, GP-6, GP-8. Dieldrin was reported at concentrations above its Soil to

Groundwater Leaching ESL as follows: GP-1-7.5-8' (6.4 ug/kg); GP-6-3.5-4' (11 ug/kg), and GP-6-7.5-8' (4.1 ug/kg), but below its Commercial/Industrial Direct Exposure ESL of 170 ug/kg in all cases. No other pesticides were detected at concentrations greater than their respective ESLs.

### 6.2.3 METALS

Several metals were detected in soil at concentrations exceeding their respective ESLs:

- Arsenic - Arsenic was detected in numerous soil samples at concentrations in the range of 1 to 44 mg/kg, with most samples reporting less than 20 mg/kg. Background concentrations for arsenic usually range up to about 15 mg/kg. Thus, arsenic concentrations likely in excess of background were detected in several samples: GP-8-3.5-4' (44 mg/kg); GP-9-4.-5' (17 mg/kg).
- Lead – Lead was detected in several samples including GP-5-4.5-5' (210 mg/kg), GP-5-7.5-8' (290 mg/kg), GP-6-7.5-8' (710 mg/kg), GP-8-3.5-4' (130 mg/kg). Only the lead concentration of 710 mg/kg in sample GP-6-7.5-8' exceeded the Commercial / Industrial Direct Exposure ESL of 320 mg/kg.
- Beryllium and Cadmium – Beryllium and cadmium were detected in a number of samples at concentrations above their respective Commercial / Industrial Direct Exposure ESLs of 0.39 and 0.058 mg/kg. The concentrations of beryllium and cadmium found at the site are consistent with natural background concentrations for these metals in Bay Area soils.

### 6.2.4 POLYCHLORINATED BIPHENYLS (PCBs)

The PCB-1260 was detected in only one soil sample, GP-6-7.5-8', at a concentration of 130 ug/kg, which is below the ESLs for PCBs. No other PCBs were reported in any soil sample tested.

### 6.2.5 VOLATILE ORGANIC COMPOUNDS (VOCs)

Acetone was the only VOC reported in any of the soil samples. It was detected at a concentration of 110 ug/kg for soil sample GP-1-7.5-8'. No other VOCs were reported above laboratory detection limits.

## 6.3 Groundwater Sampling Analytical Results

Recent groundwater analytical results are summarized in **Table 2** and discussed below. The distribution of analytes detected in groundwater is schematically illustrated on **Figure 5**. To provide a context with which to evaluate the significance of the results, the groundwater analytical results were compared to the February 2016 RWQCB Environmental Screening

Levels (ESLs) for protection of Aquatic Habitat and evaluation of Vapor Intrusion concerns. as shown on **Table 2**. **Table 2** also lists the RWQCB Drinking Water ESLs for analytes for which these criteria have been established. However, due its proximity to San Francisco Bay, shallow groundwater at the site is unlikely to be used for drinking water purposes due to naturally elevated salinity.

### 6.3.1 TOTAL PETROLEUM HYDROCARBONS (TPH)

No TPH as gasoline was detected. However, TPH-d and TPH-mo were detected in all but two of the groundwater samples, as follows:

- Pin High Golf Center (GP-1, GP-2 series, GP-3) - TPH-mo and/or TPH-d were reported in groundwater samples from borings GP-2 (including step-out borings GP-2-N, GP-2-S, GP-2-E, GP-2-E2) and GP-3. Maximum TPH-d concentrations ranged up to 1,900 ug/l. while TPH-mo ranged up to 10,000 ug/L, both in boring GP-2. Concentrations of both TPH-d and TPH-mo diminished with distance from GP-2. Numerous detected concentrations of TPH-mo exceeded the applicable ESLs<sup>1</sup>. TPH-mo and TPH-d was not reported above detection limits in the groundwater samples from GP-1 and GP-2-W.
- Pin High Maintenance Yard (GP-6) - TPH-d was detected at 84 ug/l while TPH-mo was detected at 120 ug/l.
- Turner & Excel Yard (GP-7) - TPH-d was detected at 65 ug/l while TPH-mo was detected at 350 ug/l.
- Vacant Lot (GP-10) - TPH-d was detected at 150 ug/l while TPH-mo was detected at 390 ug/l.

The RWQCB has established ESLs for TPH-d of 640 ug/l for Aquatic Habitat protection. The RWQCB has not established a groundwater ESL for Vapor Intrusion concerns for TPH-d. The RWQCB declined to establish ESLs for TPH-mo in groundwater in the most recent (February, 2016) update. Only the groundwater “grab” sample from boring GP-2 had a TPH-d detection greater than the Aquatic Habitat ESL. The TPH-mo detection in boring GP-2-N at 1,100 ug/l may raise the effective TPH-d concentration in groundwater at that location above the Aquatic Habitat ESL.

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<sup>1</sup> As of 2016, the RWQCB has updated the ESL for TPH-mo, noting that “TPH motor oil is not soluble. TPH motor oil detections in water most likely are petroleum degradates or less likely, NAPL. If the detections are degradates, add TPH motor oil and TPH diesel results and compare to TPH diesel criterion.”

### 6.3.2 VOLATILE ORGANIC COMPOUNDS (VOCs)

Several VOCs were reported at generally low concentrations in groundwater “grab” samples collected at the site in January 2016 as discussed below.

- Chlorinated VOCs - The VOCs 1,1-dichloroethene (1,1-DCE) and vinyl chloride (VC) were detected in the groundwater sample from GP-2 at 18 ug/l and 0.69, respectively, which exceed the applicable ESLs. Several other VOCs were detected in GP-2 at concentrations below applicable ESLs including 1,1,1-trichloroethane (TCA), cis-1,2-dichloroethene (cis-DCE), 1,1-dichloroethane (DCA), and 1,1,2-trichloro-1,2,2-trifluoroethane. No VOCs were reported above detection levels in groundwater samples from borings GP-1 and GP-10.
- Benzene and Other Compounds - Benzene was detected in groundwater samples from borings GP-3 and GP-6 at concentrations of 6.5 and 0.73 ug/L, respectively, which exceed the drinking water ESL, but are below the Aquatic Habitat and Vapor Intrusion ESLs for that constituent. MTBE was detected in GP-7 at 1.6 ug/l.

### 6.3.3 DISSOLVED METALS

Groundwater samples from all borings, except GP-7, indicated detections of cobalt and nickel above the groundwater Aquatic Habitat ESL. Given the consistent detections, it is likely that the detections represent background. Mercury was detected in groundwater “grab” samples from borings GP-1, GP-7, and GP-10 at concentrations slightly above its Aquatic Habitat ESL of 0.000051 ug/l. No other metals were detected above their respective ESLs.

## 7 SUMMARY & DISCUSSION

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### 7.1 Review of Previous and Current Results

The purpose of the current Phase II investigations was to evaluate site soil and groundwater quality to provide data to assess current site conditions and possible remedial actions and / or development issues associated with the property. Current results are discussed below along with those constituents previously detected in the E2C (2004b) environmental study.

### 7.2 Soil

#### 7.2.1 OVERVIEW OF CURRENT AND PREVIOUS RESULTS

Testing results indicate that low levels of soil contamination by TPH-diesel and TPH-motor oil and various metals are broadly present across the property in shallow soils above the water table. PCBs and pesticides are present sporadically in some areas. Detections seem to be in most cases related to residual contamination present within the fill material placed at the property in the past (see **Section 3.2**), though impacts from site releases may also have occurred.

As noted in **Section 4.2**, E2C (2004b) previously recommended limited remedial soil excavation in several specific areas: the vacant lot property at the western portion of the property, the former Excel Landscape/ Turner Equipment Property, and the Pin High Maintenance Yard. E2C (2004b) cited elevated TPH concentrations in soil at all three locations as motivation for the recommended remedial excavations along with elevated concentrations of arsenic, selenium, thallium, and mercury on the parcel used by Turner Equipment & Grading and the vacant lot as well as elevated concentrations of pesticides and PCBs in the vacant lot.

### **7.2.2 TOTAL PETROLEUM HYDROCARBONS**

Soil testing data from the current study (see **Figure 3**), as well as the previous study by E2C (2004b) shown on **Figures 2a and 2b**, indicate that low levels of TPH as diesel and TPH as motor oil are broadly present in shallow soils across the property. Most of the detections are below 1,200 mg/kg, the Direct Exposure ESL for TPH as diesel. Only one TPH-d detection, the TPH-d concentration of 1,400 mg/kg in sample GP-2-7.5-8', exceeds the Direct Exposure ESL of 1,200 mg/kg. Lower TPH-d concentrations were found in step-out borings completed around the GP-2 location indicating that the area with elevated TPH-d concentrations in soil is limited in extent. None of the concentrations of TPH-d or TPH-mo reported in the E2C (2004b) environmental study exceed current Direct Exposure or Soil to Groundwater Leaching ESLs.

### **7.2.3 METALS**

Several metals were detected in the current study and E2C (2004b) at concentrations potentially in excess of background at concentrations that exceed the applicable 2016 RWQCB ESLs. Key metals include: arsenic (up to 155 mg/kg), lead (in one location at 710 mg/kg) and thallium (in one location at 17 mg/kg). The widespread detections of metals in soil suggest that the elevated metals concentrations are associated with fill placed at the site rather than a point source(s). In addition, some of the detected metal concentrations in soil suggest that hazardous waste classification disposal criteria may be exceeded should the soil be excavated. Key metals for this include: chromium, lead, and nickel.

### **7.2.4 PCBs**

E2C (2004b) reported PCB detections in several soil samples collected on the vacant lot at concentrations above the current Direct Exposure ESL of 1 mg/kg. PCBs were not reported in soil samples from boring GP-10 completed in that area in the current study. Only one PCB detection was reported in the current study: boring GP-6 at a concentration of 130 ug/kg, well below the Direct Exposure ESL. The previous E2C (2004b) detections appear highly limited in extent and sporadic. However, PCB contamination is regulated by the US EPA, rather than the state level, and it is possible that soil removal may be required, as suggested by E2C (2004b).

## 7.2.5 OTHER CONSTITUENTS

Limited detections of several other constituents including pesticides, particularly dieldrin, were reported in the recent and previous investigations. It is noteworthy that no VOCs except acetone were detected in soils.

## 7.2.6 SOIL TESTING IMPLICATIONS FOR REDEVELOPMENT

Given future use plans, these detections are not expected to represent significant obstacles to redevelop the property for the intended commercial / industrial use. However, spot removals may be appropriate during redevelopment grading in some key areas including those identified by E2C (2004b), as well as the area of TPH-impacted soil around boring GP-2. In addition, any excess soils to be removed from the property will require testing for appropriate disposal at a designated facility under a site-specific Soil Management Plan (SMP). Based on the test results, we expect that most soils will be appropriate for disposal at a Class II facility. However, some soils may classify as hazardous waste, based on lead content or other constituents, and thus require disposal at a Class I facility.

## 7.3 Groundwater

Groundwater detections appear to divide into those potentially sourced on-site and those related to the potential encroachment of the leading edge of a known groundwater VOC plume sourced off-site on the adjacent property to the southeast (see **Section 4.2.4**). These are discussed below.

### 7.3.1 TOTAL PETROLEUM HYDROCARBONS (TPH)

As with soil, low levels (less than 640 ug/l, the Aquatic Habitat ESL) of TPH as diesel and motor oil were broadly detected in groundwater samples collected across the property. Given the consistency of the detections across the property, these are likely sourced within the soil fill materials historically placed at the site. RWQCB 2016 ESLs are occasionally exceeded. One “hot spot” area, GP-2, with elevated concentrations of TPH-d (1,900 mg/l) and TPH-mo (10,000 mg/l), was noted in the western portion of the golf course area. Follow-up step-out borings suggest this is an isolated “hot spot” and that concentrations decline in all directions away from GP-2. The GP-2 boring was the only location where TPH was found at concentrations greater than the Aquatic Habitat ESL.

### 7.3.2 VOLATILE ORGANIC COMPOUNDS (VOCs)

Volatile organic compounds were generally not detected in groundwater samples collected at the site. However, low levels of several chlorinated VOCs were detected in GP-2. These included 1,1-DCE, VC, and several others as described in **Section 6.3.2**. The up-gradient property immediately to the southeast is the 237 @ First St Development Project, discussed in



**Section 4.2.4.** The southeastern-most corner of that property comprises the Syntax Ct Disposal Site (SCDS); a source of chlorinated VOCs to groundwater was identified within that disposal site. Groundwater impacts and associated remediation and monitoring are currently occurring on that property under the oversight of the RWQCB. The northwestern extent of the SCDS groundwater VOC plume has been tracked to the northwestern corner of the 237 @ First St Development project property, adjacent to the Pin High Golf Center property. Based on the types of VOCs detected in the groundwater “grab” sample collected from boring GP-2, the SCDS groundwater VOC plume appears to extend onto the subject property as far as the GP-2 boring location, but has not reached the vicinity of borings GP-1 or GP-3 on the subject property. A groundwater monitoring program is in place at the 237 @ First St Property. Given the low VOC concentrations observed on the subject property and the fact that remediation and monitoring are underway on the adjacent property under RWQCB oversight, no further assessment is considered warranted for the VOCs observed in the January 2016 sampling program.

## 8 CONCLUSIONS & RECOMMENDATIONS

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As noted in the current work and in previous work by E2C (2004b) for the current owner, exceedances of the 2016 RWQCB ESLs have been noted at various locations across the site. In most cases, these exceedances appear related to historic fill placed over the entire property though in some cases these could be related to releases from operations conducted on site (e.g., Pin High Maintenance Yard, Turner Equipment, former agricultural use, etc.). These detections should not preclude commercial / industrial development of the property as intended. However, several future actions are recommended:

- Limited Remedial Excavation - As suggested by E2C (2004b), it may be appropriate to conduct limited soil excavation in areas of elevated TPH concentrations such as the GP-2 area and apparently isolated areas with elevated lead, thallium, and/or PCB detections such as the Pin High Maintenance Yard, the former Turner Equipment / Excel Landscaping lot, and the western vacant lot. Based on the RWQCB 2016 ESLs, it is possible that not all the areas suggested by E2C (2004b) may require remedial action. It is expected that, if necessary, this work could be done in concert with grading for site development.
- Soil Management Plan - Since unknown or uninvestigated areas of the site may contain elevated TPH, metals, or other constituents, a Soil Management Plan (SMP) should be developed to provide guidelines for site grading to address soil stockpile management, soil testing/waste classification for off-site disposal, dust control, storm-water management, worker safety, etc. As noted earlier, any excess soils to be removed from the property will require testing for appropriate disposal at a designated facility under the site-specific Soil Management Plan (SMP). Based on the test results, we expect that most soils will be appropriate for disposal at a Class II facility. However, some soils may



classify as hazardous waste, based on lead content or other constituents, and thus require disposal at a Class I facility.

- Possible PCB Presence – The potential presence of PCBs in shallow soil may represent a specific concern. Even if remedial soil excavation is undertaken, the sporadic low-level detection of PCBs in shallow soil in the westernmost vacant lots in excess of the Direct Exposure ESL may be a concern to the RWQCB and US EPA, the latter of which regulates PCB contamination. In particular, the US EPA has expressed increased concern with respect to PCBs in storm-water discharging to San Francisco Bay. Due to the detection of PCBs in soil on the property by E2C (2004b), additional control measures may be warranted to manage storm-water discharges to surface water during construction. These would be captured in the site-specific Soil Management Plan (SMP).
- Agency Oversight - Request oversight by San Francisco RWQCB for environmental issues associated with site redevelopment; the RWQCB has oversight responsibility at the adjacent property to the southeast. This will serve to document agency concurrence that issues at the property have been appropriately addressed. In our experience, the RWQCB may suggest that the property enter the Voluntary Cleanup Program (VCP). However, a more desirable path may be to pursue an agreement between the RWQCB and buyer under the California Land Reuse and Revitalization Act (CLRRA). This is typically referred to as a CLRRA Agreement. The CLRRA Agreement approach would require that the buyer agree to conduct certain activities during redevelopment to address site contamination (e.g., conduct soil investigation or excavation, develop and implement the Soil Management Plan, document activities, etc.). CLRRA agreements typically provide the buyer with RWQCB protections from requirements for future actions associated with historic contamination. In any case, the first step would be to meet with RWQCB staff to discuss the environmental findings at the site.

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# Tables

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Table 1

Summary of Soil Sampling Results  
San Jose, CA

Boring ID Sample ID Sample Depth, ft bgs Analytes	Units	GP-1		GP-2			GP-2-E2		GP-2-E		GP-2-N		GP-2-S		Table S-1 ESLs Direct Exposure (C/I)	Table S-2 ESLs Soil Leaching	
		GP-1-3.5-4'	GP-1-7.5-8'	GP-1-11.5-12'	GP-2-3.5-4'	GP-2-7.5-8'	GP-2-11.5-12'	GP-2-E2-3.5-4'	GP-2-E2-7.5-8'	GP-2-E-3.5-4'	GP-2-E-7.5-8'	GP-2-N-3.5-4'	GP-2-N-7.5-8'	GP-2-S-3.5-4'			GP-2-S-7.5-8'
		3.5-4'	7.5-8'	11.5-12'	3.5-4'	7.5-8'	11.5-12'	3.5-4'	7.5-8'	3.5-4'	7.5-8'	3.5-4'	7.5-8'	3.5-4'			7.5-8'
<b>Petroleum Hydrocarbons</b>																	
Gasoline Range Organics (GRO)-C5-C12	mg/kg	<0.290	<0.280	-	<0.320	<0.310	-	-	-	-	-	-	-	-	-	4,100	3,400
Diesel Range Organics [C10-C28]	mg/kg	46	390	<1.3	17	1,400	1.4	9.7	32	4.8	390	<1.1	610	45	310	1,200	3,600
Motor Oil Range Organics [C24-C36]	mg/kg	160	1,500	8.7	120	4,800	<6.3	<59	92	<57	1,300	<55	1,000	230	1,900	140,000	--
<b>Metals</b>																	
Antimony	mg/kg	2.5	<0.57	-	<0.61	<2.2	-	-	-	-	-	-	-	-	-	470	--
Arsenic	mg/kg	8.7	7.8	-	5.7	5	-	-	-	-	-	-	-	-	-	11 <sup>(5)</sup>	--
Barium	mg/kg	160	180	-	220	150	-	-	-	-	-	-	-	-	-	220,000	--
Beryllium	mg/kg	0.54	0.18	-	0.36	<0.45	-	-	-	-	-	-	-	-	-	0.39	--
Cadmium	mg/kg	<0.47	0.15	-	0.18	<0.56	-	-	-	-	-	-	-	-	-	0.058	--
Chromium	mg/kg	73	86	-	60	280	-	-	-	-	-	-	-	-	-	1,800,000 (Cr III)	--
Cobalt	mg/kg	17	18	-	12	48	-	-	-	-	-	-	-	-	-	350	--
Copper	mg/kg	36	41	-	29	27	-	-	-	-	-	-	-	-	-	47,000	--
Lead	mg/kg	14	42	-	31	15	-	-	-	-	-	-	-	-	-	320	--
Mercury	mg/kg	0.63	0.3	-	0.21	0.21	-	-	-	-	-	-	-	-	-	190	--
Molybdenum	mg/kg	2.7	<0.57	-	<0.61	<2.2	-	-	-	-	-	-	-	-	-	5,800	--
Nickel	mg/kg	94	120	-	82	600	120	-	-	-	-	-	-	-	-	11,000	--
Selenium	mg/kg	<3.8	<1.1	-	<1.2	<4.5	-	-	-	-	-	-	-	-	-	5,800	--
Silver	mg/kg	<0.94	<0.28	-	<0.31	<1.1	-	-	-	-	-	-	-	-	-	5,800	--
Thallium	mg/kg	2.1	<0.57	-	<0.61	<2.2	-	-	-	-	-	-	-	-	-	12	--
Vanadium	mg/kg	41	61	-	36	43	-	-	-	-	-	-	-	-	-	580,000	--
Zinc	mg/kg	58	79	-	99	46	-	-	-	-	-	-	-	-	-	350,000	--
<b>PCBs</b>																	
PCB-1260	ug/kg	<57	<57	-	-	-	-	-	-	-	-	-	-	-	-	1,000	6,300
<b>Chlorinated Pesticides</b>																	
4,4'-DDD	ug/kg	4.6	31	-	<43	-	-	-	-	-	-	-	-	-	-	1,200	7,500
4,4'-DDE	ug/kg	28	57	-	<43	-	-	-	-	-	-	-	-	-	-	8,500	1,100,000
4,4'-DDT	ug/kg	<2.3	<4.6	-	<43	-	-	-	-	-	-	-	-	-	-	8,500	4,300
alpha-Chlordane	ug/kg	<2.3	11	-	<22	-	-	-	-	-	-	-	-	-	-	2,200	15,000
Dieldrin	ug/kg	<2.3	6.4	-	<22	-	-	-	-	-	-	-	-	-	-	170	2.3
gamma-Chlordane	ug/kg	<2.3	14	-	<22	-	-	-	-	-	-	-	-	-	-	2,200	15,000
<b>Volatile Organic Compounds (VOCs)</b>																	
1,1,1-Trichloroethane	ug/kg	<5.7	<5.5	-	<6.4	<6.2	-	-	-	-	-	-	-	-	-	9,500,000	6,400
1,1,2-Trichloro-1,2,2-trifluoroethane	ug/kg	<5.7	<5.5	-	<6.4	<6.2	-	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethane	ug/kg	<5.7	<5.5	-	<6.4	<6.2	-	-	-	-	-	-	-	-	-	18,000	811
1,1-Dichloroethene	ug/kg	<5.7	<5.5	-	<6.4	<6.2	-	-	-	-	-	-	-	-	-	430,000	4,300
Acetone	ug/kg	<57	110	-	<64	<62	-	-	-	-	-	-	-	-	-	650,000,000	500
Benzene	ug/kg	<5.7	<5.5	-	<6.4	<6.2	-	-	-	-	-	-	-	-	-	1,100	49
cis-1,2-Dichloroethene	ug/kg	<5.7	<5.5	-	<6.4	<6.2	-	-	-	-	-	-	-	-	-	96,000	3,500
Methyl tert-butyl ether	ug/kg	<5.7	<5.5	-	<6.4	<6.2	-	-	-	-	-	-	-	-	-	200,000	840
trans-1,2-Dichloroethene	ug/kg	<5.7	<5.5	-	<6.4	<6.2	-	-	-	-	-	-	-	-	-	590,000	39,000
Vinyl chloride	ug/kg	<5.7	<5.5	-	<6.4	<6.2	-	-	-	-	-	-	-	-	-	16	10
Percent Moisture	%	13	14	20	26	23	20	15.6	9.5	12.5	13.5	9.3	17.5	18.9	14.1	-	-

Notes:

Table S-1: Soil Direct Exposure Human Health Risk Screening Levels (Commercial/Industrial)

Table S-2: Soil Leaching to Groundwater Screening Levels (Organic Compounds only)

Table S-3: Soil Gross Contamination Screening Levels

Table S-4: Soil Odor Nuisance Screening Levels (Commercial/Industrial)

5: Bay Area background arsenic concentration - see [http://www.waterboards.ca.gov/sanfranciscobay/water\\_issues/programs/esl.shtml](http://www.waterboards.ca.gov/sanfranciscobay/water_issues/programs/esl.shtml)

Table 1

Summary of Soil Sampling Results  
San Jose, CA

Boring ID Sample ID Sample Depth, ft bgs Analytes	Units	GP-2-W		GP-3		GP-4	GP-5			GP-6			GP-7		Table S-1 ESLs Direct Exposure (C/I)	Table S-2 ESLs Soil Leaching
		GP-2-W-3.5-4'	GP-2-W-7.5-8'	GP-3-3.5-4'	GP-3-7.5-8'	GP-4-3.5-4'	GP-5-4.5-5'	GP-5-7.5-8'	GP-5-11.5-12'	GP-6-3.5-4'	GP-6-7.5-8'	GP-6-11.5-12'	GP-7-3.5-4'	GP-7-7.5-8'		
		3.5-4'	7.5-8'	3.5-4'	7.5-8'	3.5-4'	4.5-5'	7.5-8'	11.5-12'	3.5-4'	7.5-8'	11.5-12'	3.5-4'	7.5-8'		
<b>Petroleum Hydrocarbons</b>																
Gasoline Range Organics (GRO)-C5-C12	mg/kg	-	-	<0.270	<0.300	<0.350	<0.310	<0.310	-	<0.270	<0.290	-	<0.300	<0.280	4,100	3,400
Diesel Range Organics [C10-C28]	mg/kg	31	66	290	11	5.1	43	46	-	25	9	-	21	1.5	1,200	3,600
Motor Oil Range Organics [C24-C36]	mg/kg	140	250	1,200	<60	<71	110	98	-	99	<63	-	72	<64	140,000	--
<b>Metals</b>																
Antimony	mg/kg	-	-	<1.9	<1.6	<0.66	<1.9	<2	-	<0.43	6.7	-	<2.3	<1.6	470	--
Arsenic	mg/kg	-	-	<3.9	<3.2	5.7	5.1	7.5	-	2.7	11	-	7.1	8.3	11 <sup>(5)</sup>	--
Barium	mg/kg	-	-	140	100	180	34	510	-	38	650	-	150	250	220,000	--
Beryllium	mg/kg	-	-	<0.39	<0.32	0.79	<0.38	<0.41	-	0.095	<0.48	-	<0.46	0.67	0.39	--
Cadmium	mg/kg	-	-	<0.48	<0.4	0.37	0.85	2.8	-	<0.11	4.9	-	<0.57	<0.39	0.058	--
Chromium	mg/kg	-	-	32	83	63	32	39	-	24	65	-	60	69	1,800,000 (Cr III)	--
Cobalt	mg/kg	-	-	11	16	13	5.7	13	-	3.9	15	-	14	17	350	--
Copper	mg/kg	-	-	25	63	45	62	140	-	20	99	-	34	39	47,000	--
Lead	mg/kg	-	-	3.6	5.9	39	210	290	-	23	710	13	38	12	320	--
Mercury	mg/kg	-	-	0.055	0.27	0.18	0.093	1.1	-	0.081	0.16	-	0.66	0.19	190	--
Molybdenum	mg/kg	-	-	<1.9	<1.6	0.76	8	<2	-	4.5	<2.4	-	<2.3	<1.6	5,800	--
Nickel	mg/kg	-	-	32	86	77	130	50	-	40	79	-	94	94	11,000	--
Selenium	mg/kg	-	-	<3.9	<3.2	<1.3	<3.8	<4.1	-	<0.85	<4.8	-	<4.6	<3.2	5,800	--
Silver	mg/kg	-	-	<0.97	<0.81	<0.33	<0.96	<1	-	<0.21	<1.2	-	<1.1	<0.79	5,800	--
Thallium	mg/kg	-	-	<1.9	<1.6	<0.66	<1.9	<2	-	<0.43	<2.4	-	<2.3	<1.6	12	--
Vanadium	mg/kg	-	-	50	69	51	11	38	-	14	47	-	39	55	580,000	--
Zinc	mg/kg	-	-	37	56	120	2,000	1,100	120	28	460	-	81	79	350,000	--
<b>PCBs</b>																
PCB-1260	ug/kg	-	-	-	-	-	-	-	-	<57	130	-	-	-	1,000	6,300
<b>Chlorinated Pesticides</b>																
4,4'-DDD	ug/kg	-	-	<72	-	<10	<20	-	-	4.4	62	-	<4	-	1,200	7,500
4,4'-DDE	ug/kg	-	-	<72	-	<10	<20	-	-	18	35	-	<4	-	8,500	1,100,000
4,4'-DDT	ug/kg	-	-	<72	-	<10	<20	-	-	11	3.4	-	<4	-	8,500	4,300
alpha-Chlordane	ug/kg	-	-	<37	-	<5.2	13	-	-	<2.3	<2.5	-	<2	-	2,200	15,000
Dieldrin	ug/kg	-	-	<37	-	<5.2	<10	-	-	11	4.1	-	<2	-	170	2.3
gamma-Chlordane	ug/kg	-	-	<37	-	<5.2	<10	-	-	<2.3	<2.5	-	<2	-	2,200	15,000
<b>Volatile Organic Compounds (VOCs)</b>																
1,1,1-Trichloroethane	ug/kg	-	-	<5.4	<5.9	<7	<6.2	<6.2	-	<5.5	<5.9	-	<6	<5.6	9,500,000	6,400
1,1,2-Trichloro-1,2,2-trifluoroethane	ug/kg	-	-	<5.4	<5.9	<7	<6.2	<6.2	-	<5.5	<5.9	-	<6	<5.6	-	-
1,1-Dichloroethane	ug/kg	-	-	<5.4	<5.9	<7	<6.2	<6.2	-	<5.5	<5.9	-	<6	<5.6	18,000	811
1,1-Dichloroethene	ug/kg	-	-	<5.4	<5.9	<7	<6.2	<6.2	-	<5.5	<5.9	-	<6	<5.6	430,000	4,300
Acetone	ug/kg	-	-	<54	<59	<70	<62	<62	-	<55	<59	-	<60	<56	650,000,000	500
Benzene	ug/kg	-	-	<5.4	<5.9	<7	<6.2	<6.2	-	<5.5	<5.9	-	<6	<5.6	1,100	49
cis-1,2-Dichloroethene	ug/kg	-	-	<5.4	<5.9	<7	<6.2	<6.2	-	<5.5	<5.9	-	<6	<5.6	96,000	3,500
Methyl tert-butyl ether	ug/kg	-	-	<5.4	<5.9	<7	<6.2	<6.2	-	<5.5	<5.9	-	<6	<5.6	200,000	840
trans-1,2-Dichloroethene	ug/kg	-	-	<5.4	<5.9	<7	<6.2	<6.2	-	<5.5	<5.9	-	<6	<5.6	590,000	39,000
Vinyl chloride	ug/kg	-	-	<5.4	<5.9	<7	<6.2	<6.2	-	<5.5	<5.9	-	<6	<5.6	16	10
Percent Moisture	%	17.8	12.1	10	17	31	21	22	49	13	22	29	18	22	-	-

Notes:

Table S-1: Soil Direct Exposure Human Health Risk Screening Levels (Commercial/Industrial)

Table S-2: Soil Leaching to Groundwater Screening Levels (Organic Compounds only)

Table S-3: Soil Gross Contamination Screening Levels

Table S-4: Soil Odor Nuisance Screening Levels (Commercial/Industrial)

5: Bay Area background arsenic concentration - see [http://www.waterboards.ca.gov/sanfranciscobay/water\\_issues/programs/esl.shtml](http://www.waterboards.ca.gov/sanfranciscobay/water_issues/programs/esl.shtml)

Table 1

Summary of Soil Sampling Results  
San Jose, CA

Boring ID Sample ID Sample Depth, ft bgs Analytes	Units	GP-8		GP-9		GP-10		GP-11		Table S-1 ESLs Direct Exposure (C/I)	Table S-2 ESLs Soil Leaching
		GP-8-3.5-4'	GP-8-7.5-8'	GP-9-4.5-5'	GP-9-7.5-8'	GP-10-3.5-4'	GP-10-7.5-8'	GP-11-3.5-4'	GP-11-7.5-8'		
		3.5-4'	7.5-8'	4.5-5'	7.5-8'	3.5-4'	7.5-8'	3.5-4'	7.5-8'		
<b>Petroleum Hydrocarbons</b>											
Gasoline Range Organics (GRO)-C5-C12	mg/kg	<0.320	<0.310	<0.310	<0.300	<0.290	<0.310	<0.300	<0.310	4,100	3,400
Diesel Range Organics [C10-C28]	mg/kg	21	<1.2	12	56	400	2.4	90	17	1,200	3,600
Motor Oil Range Organics [C24-C36]	mg/kg	90	<61	<64	240	2,100	<68	300	<62	140,000	--
<b>Metals</b>											
Antimony	mg/kg	<2.1	<2.3	<2.5	<2.5	<0.5	<1.8	<2.4	<2.2	470	--
Arsenic	mg/kg	44	7.1	17	7.5	1	5.6	7.8	9.4	11 <sup>(5)</sup>	--
Barium	mg/kg	250	160	250	210	33	250	140	210	220,000	--
Beryllium	mg/kg	0.61	0.81	0.65	0.78	0.2	0.74	<0.47	0.6	0.39	--
Cadmium	mg/kg	<0.52	<0.57	<0.63	<0.61	<0.12	<0.46	<0.59	<0.54	0.058	--
Chromium	mg/kg	89	68	84	64	7.1	72	480	74	1,800,000 (Cr III)	--
Cobalt	mg/kg	21	14	22	16	1.6	15	64	17	350	--
Copper	mg/kg	53	37	45	43	2.4	38	35	41	47,000	--
Lead	mg/kg	130	11	37	11	3.5	11	44	11	320	--
Mercury	mg/kg	5.4	0.12	3.8	0.087	0.024	0.11	0.1	0.12	190	--
Molybdenum	mg/kg	<2.1	<2.3	<2.5	<2.5	0.89	<1.8	<2.4	<2.2	5,800	--
Nickel	mg/kg	150	82	140	88	4.8	90	1,100	100	11,000	--
Selenium	mg/kg	<4.1	<4.6	<5	<4.9	<1	<3.6	<4.7	<4.3	5,800	--
Silver	mg/kg	<1	<1.1	<1.3	<1.2	<0.25	<0.91	<1.2	<1.1	5,800	--
Thallium	mg/kg	<2.1	<2.3	<2.5	<2.5	<2	<1.8	<2.4	<2.2	12	--
Vanadium	mg/kg	55	54	58	51	9.4	57	39	55	580,000	--
Zinc	mg/kg	130	77	94	73	10	73	68	82	350,000	--
<b>PCBs</b>											
PCB-1260	ug/kg	<65	<61	-	-	<56	<68	-	-	1,000	6,300
<b>Chlorinated Pesticides</b>											
4,4'-DDD	ug/kg	16	<2.4	<86	-	<4.5	<2.7	<41	-	1,200	7,500
4,4'-DDE	ug/kg	60	<2.4	<86	-	<4.5	<2.7	<41	-	8,500	1,100,000
4,4'-DDT	ug/kg	18	<2.4	<86	-	<4.5	<2.7	<41	-	8,500	4,300
alpha-Chlordane	ug/kg	<2.6	<2.4	<44	-	<4.5	<2.7	<21	-	2,200	15,000
Dieldrin	ug/kg	<2.6	<2.4	<44	-	<4.5	<2.7	<21	-	170	2.3
gamma-Chlordane	ug/kg	<2.6	<2.4	<44	-	<4.5	<2.7	<21	-	2,200	15,000
<b>Volatile Organic Compounds (VOCs)</b>											
1,1,1-Trichloroethane	ug/kg	<6.5	<6.1	<6.1	<6	<5.7	<6.3	<6	<6.2	9,500,000	6,400
1,1,2-Trichloro-1,2,2-trifluoroethane	ug/kg	<6.5	<6.1	<6.1	<6	<5.7	<6.3	<6	<6.2	-	-
1,1-Dichloroethane	ug/kg	<6.5	<6.1	<6.1	<6	<5.7	<6.3	<6	<6.2	18,000	811
1,1-Dichloroethene	ug/kg	<6.5	<6.1	<6.1	<6	<5.7	<6.3	<6	<6.2	430,000	4,300
Acetone	ug/kg	<6.5	<6.1	<6.1	<60	<5.7	<6.3	<60	<6.2	650,000,000	500
Benzene	ug/kg	<6.5	<6.1	<6.1	<6	<5.7	<6.3	<6	<6.2	1,100	49
cis-1,2-Dichloroethene	ug/kg	<6.5	<6.1	<6.1	<6	<5.7	<6.3	<6	<6.2	96,000	3,500
Methyl tert-butyl ether	ug/kg	<6.5	<6.1	<6.1	<6	<5.7	<6.3	<6	<6.2	200,000	840
trans-1,2-Dichloroethene	ug/kg	<6.5	<6.1	<6.1	<6	<5.7	<6.3	<6	<6.2	590,000	39,000
Vinyl chloride	ug/kg	<6.5	<6.1	<6.1	<6	<5.7	<6.3	<6	<6.2	16	10
Percent Moisture	%	23	19	22	23	13	26	20	21	-	-

## Notes:

Table S-1: Soil Direct Exposure Human Health Risk Screening Levels (Commercial/Industrial)

Table S-2: Soil Leaching to Groundwater Screening Levels (Organic Compounds only)

Table S-3: Soil Gross Contamination Screening Levels

Table S-4: Soil Odor Nuisance Screening Levels (Commercial/Industrial)

5: Bay Area background arsenic concentration - see [http://www.waterboards.ca.gov/sanfranciscobay/water\\_issues/programs/esl.shtml](http://www.waterboards.ca.gov/sanfranciscobay/water_issues/programs/esl.shtml)

**Table 2**

**Summary of Groundwater "Grab" Sampling Results  
San Jose, CA**

Analytes	Units	GP-1	GP-2	GP-2-E	GP-2-E2	GP-2-N	GP-2-S	GP-2-W	GP-3	GP-6	GP-7	GP-10	Table GW-1	Table GW-2	Table GW-3
		1/21/16	1/21/16	2/23/2016	2/23/2016	2/23/2016	2/23/2016	2/23/2016	1/21/16	1/21/16	1/22/16	1/22/16	Drinking Water ESLs	Aquatic Habitat ESLs	Vapor Intrusion ESLs
<b>Petroleum Hydrocarbons</b>															
Gasoline Range Organics (GRO)-C5-C12	ug/L	<50	<50	-	-	-	-	-	<50	<50	<50	<50	220	440	-
Diesel Range Organics [C10-C28]	ug/L	<50	<b>1,900</b>	<51	<b>130</b>	<b>380</b>	<b>81</b>	<51	<52	<b>84</b>	<b>65</b>	<b>150</b>	<b>150</b>	<b>640</b>	-
Motor Oil Range Organics [C24-C36]	ug/L	<100	<b>10,000</b>	<b>150</b>	<b>310</b>	<b>1,100</b>	<b>220</b>	<100	<b>170</b>	<b>120</b>	<b>350</b>	<b>390</b>	<b>Note 1</b>	--	-
<b>Metals</b>															
Antimony	mg/L	<0.01	<0.01	-	-	-	-	-	<0.01	<0.01	<0.01	<0.01	0.0074	0.03	-
Arsenic	mg/L	<0.01	<0.01	-	-	-	-	-	<0.01	<b>0.023</b>	<0.01	<0.01	0.000004	0.036	-
Barium	mg/L	<0.05	<b>0.081</b>	-	-	-	-	-	<b>0.052</b>	<b>1.3</b>	<b>0.069</b>	<b>0.097</b>	<b>2</b>	-	-
Beryllium	mg/L	<0.002	<0.002	-	-	-	-	-	<0.002	<0.002	<0.002	<0.002	0.0000045	0.0027	-
Cadmium	mg/L	<0.002	<0.002	-	-	-	-	-	<0.002	<0.002	<0.002	<0.002	0.00004	0.00025	-
Chromium (total)	mg/L	<0.01	<0.01	-	-	-	-	-	<0.01	<0.01	<0.01	<0.01	-	0.18	-
Cobalt	mg/L	<b>0.0038</b>	<b>0.0081</b>	-	-	-	-	-	<b>0.01</b>	<b>0.0033</b>	<b>0.002</b>	<b>0.0093</b>	<b>0.006</b>	<b>0.003</b>	-
Copper	mg/L	<0.02	<0.02	-	-	-	-	-	<0.02	<0.02	<0.02	<0.02	0.3	0.0031	-
Lead	mg/L	<0.005	<0.005	-	-	-	-	-	<0.005	<0.005	<0.005	<0.005	0.0002	0.0025	-
Mercury	mg/L	<b>0.00021</b>	<0.0002	-	-	-	-	-	<0.0002	<0.0002	<b>0.00025</b>	<b>0.00023</b>	<b>0.0012</b>	<b>0.00051</b>	-
Molybdenum	mg/L	<b>0.049</b>	<b>0.035</b>	-	-	-	-	-	<b>0.02</b>	<b>0.019</b>	<b>0.072</b>	<b>0.018</b>	<b>0.099</b>	<b>0.24</b>	-
Nickel	mg/L	<b>0.01</b>	<b>0.025</b>	-	-	-	-	-	<b>0.024</b>	<b>0.013</b>	<0.01	<b>0.013</b>	<b>0.012</b>	<b>0.0082</b>	-
Selenium	mg/L	<0.02	<0.02	-	-	-	-	-	<0.02	<0.02	<0.02	<0.02	0.03	0.005	-
Silver	mg/L	<0.005	<0.005	-	-	-	-	-	<0.005	<0.005	<0.005	<0.005	0.086	0.00019	-
Thallium	mg/L	<0.01	<0.01	-	-	-	-	-	<0.01	<0.01	<0.01	<0.01	0.0001	0.0063	-
Vanadium	mg/L	<0.01	<0.01	-	-	-	-	-	<0.01	<0.01	<0.01	<0.01	0.05	0.019	-
Zinc	mg/L	<0.02	<b>0.024</b>	-	-	-	-	-	<0.02	<0.02	<0.02	<0.02	6	0.081	-
<b>Volatile Organic Compounds (VOCs)</b>															
1,1,1-Trichloroethane	ug/L	<0.5	<b>1.8</b>	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<b>1,000</b>	<b>62</b>	<b>42,000</b>
1,1,2-Trichloro-1,2,2-trifluoroethane	ug/L	<0.5	<b>1.6</b>	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	-	-	--
1,1-Dichloroethane	ug/L	<0.5	<b>2.5</b>	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<b>2.7</b>	<b>47</b>	<b>180</b>
1,1-Dichloroethene	ug/L	<0.5	<b>18</b>	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<b>10</b>	<b>3.2</b>	<b>1,400</b>
Benzene	ug/L	<0.5	<0.5	-	-	-	-	-	<b>6.5</b>	<b>0.73</b>	<0.5	<0.5	<b>0.15</b>	<b>46</b>	<b>9.7</b>
cis-1,2-Dichloroethene	ug/L	<0.5	<b>0.62</b>	-	-	-	-	-	<0.5	<0.5	<b>0.94</b>	<0.5	<b>11</b>	<b>590</b>	<b>950</b>
Methyl tert-butyl ether	ug/L	<0.5	<0.5	-	-	-	-	-	<0.5	<0.5	<b>1.6</b>	<0.5	<b>13</b>	<b>8,000</b>	<b>11,000</b>
trans-1,2-Dichloroethene	ug/L	<0.5	<b>1.1</b>	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<b>60</b>	<b>590</b>	<b>7,900</b>
Vinyl chloride	ug/L	<0.5	<b>0.99</b>	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<b>0.042</b>	<b>530</b>	<b>0.53</b>

Notes:

Tier 1 ESL

Table GW-1: Groundwater Direct Exposure Human Health Risk Screening Levels

Table GW-2: Ecological Aquatic Habitat Goals

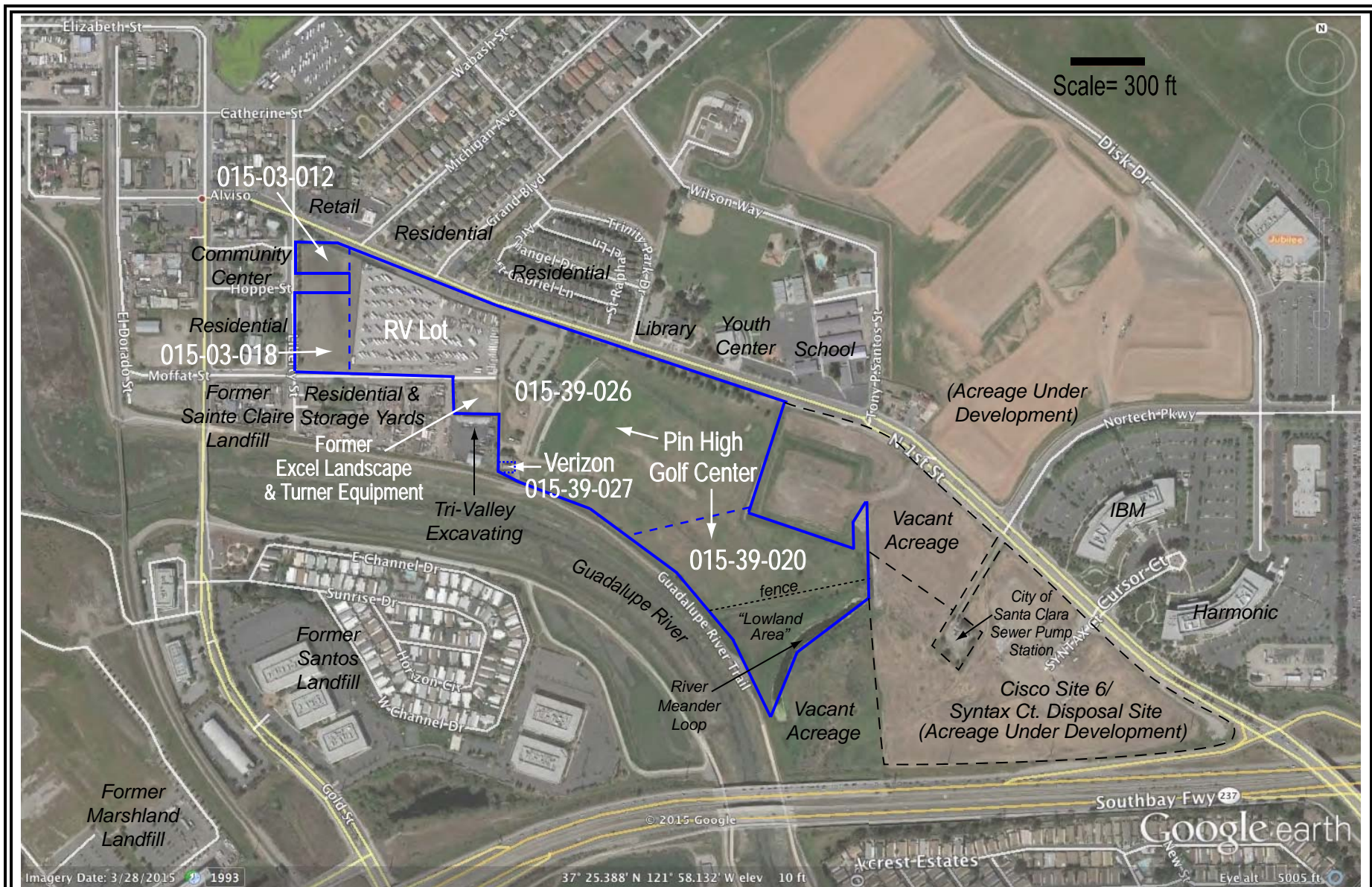
Table GW-3: Groundwater Vapor Intrusion Human Health Risk Screening Levels (Volatile Chemicals Only); depth to groundwater less than or equal to 10 feet, Sand Scenario.

RWQCB Note 1 - "TPH motor oil is not soluble. TPH motor oil detections in water most likely are petroleum degradates or less likely NAPL. If the detections are degradates, add TPH motor oil and TPH diesel results and compare to TPH diesel criterion."

# Figures

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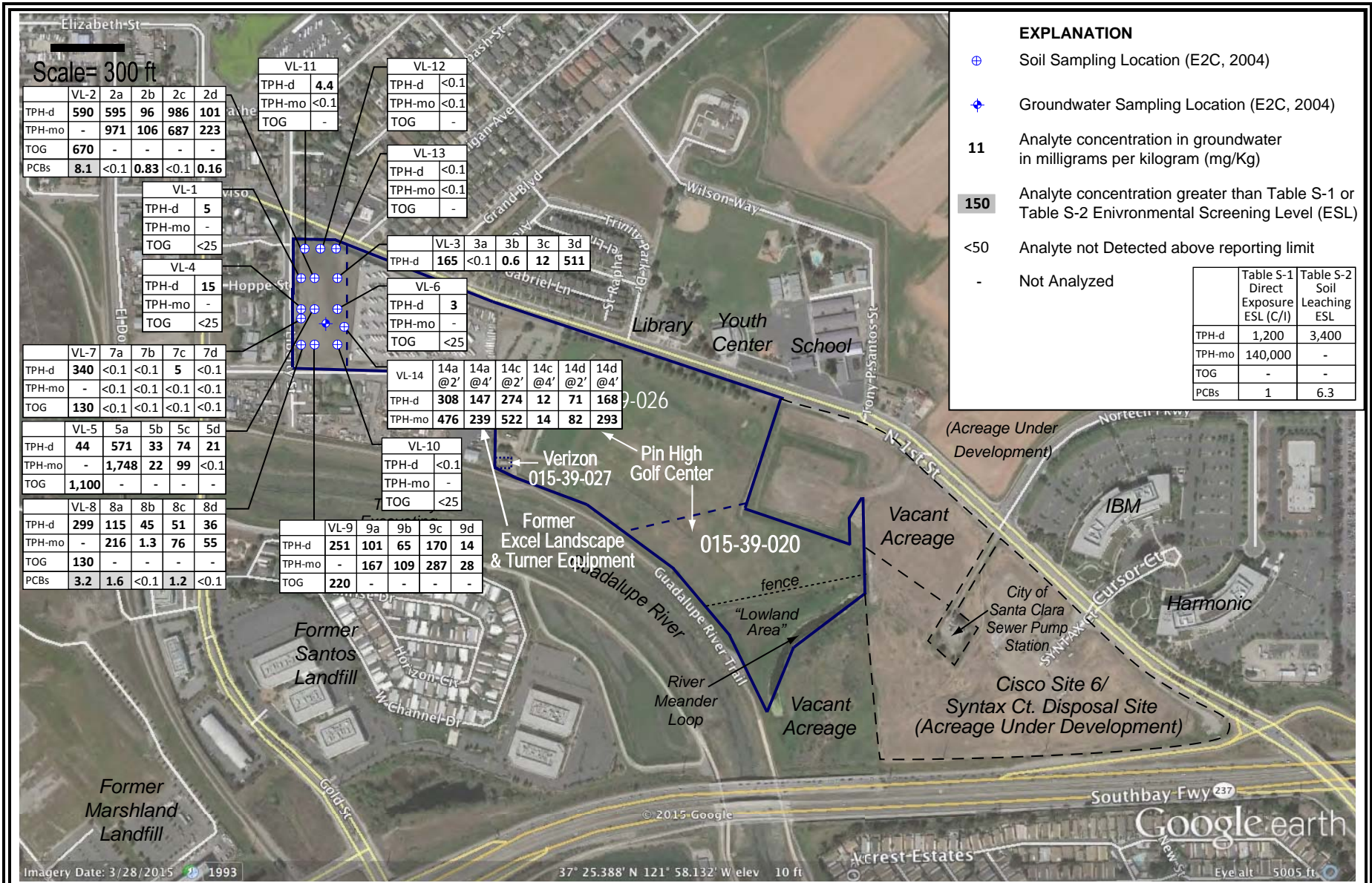
APN 015-39-020	10.81 acres
APN 015-39-026	25.36 acres
APN 015-39-027	~0.10 acres
APN 015-03-012	1.376 acres
APN 015-03-018	0.619 acres

## SITE VICINITY MAP

**Pin High Acreage**  
**San Jose, CA 95002**

FIGURE 1  
**geologica**



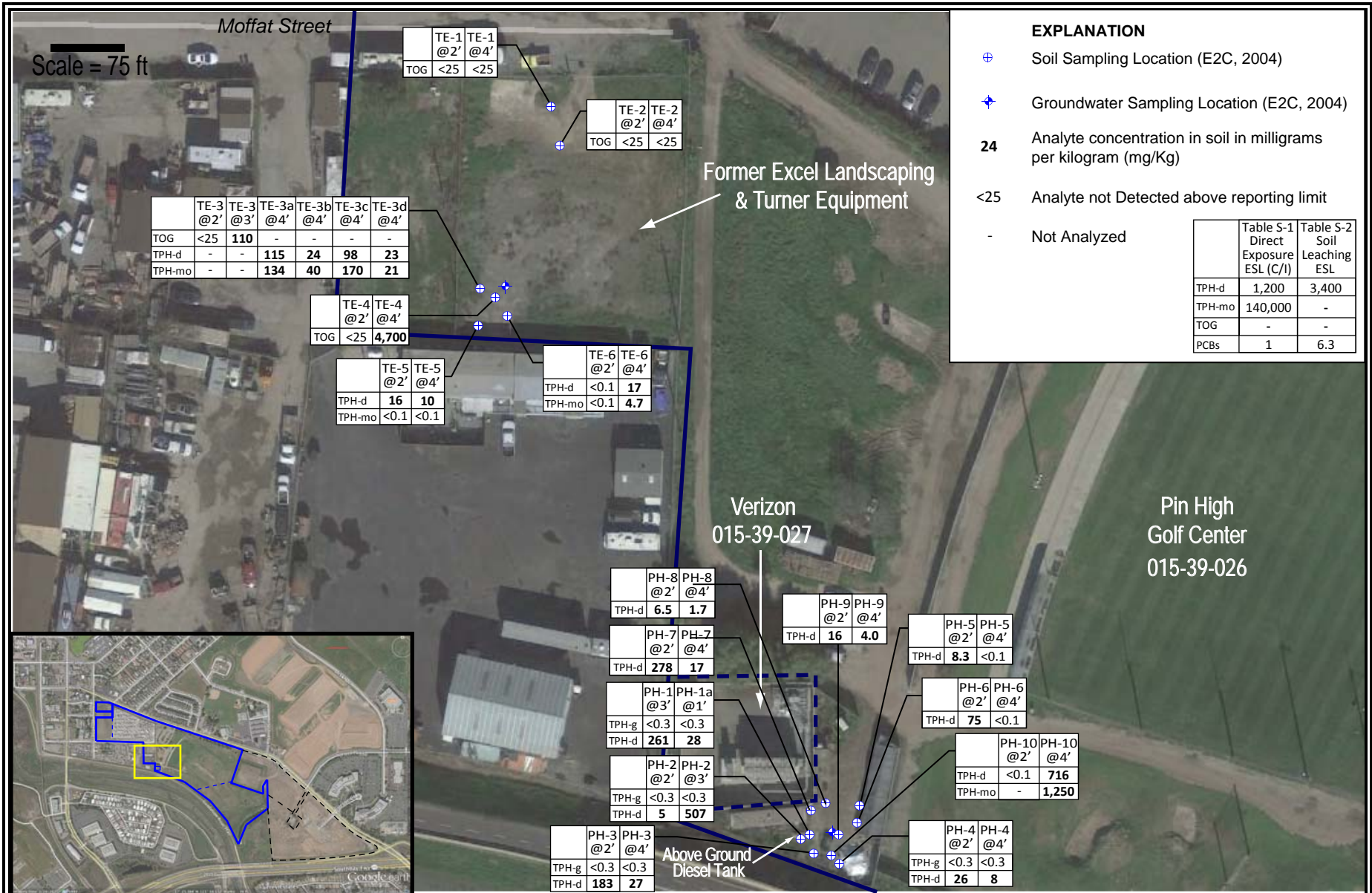


APN 015-39-020 10.81 acres  
 APN 015-39-026 25.36 acres  
 APN 015-39-027 ~0.10 acres  
 APN 015-03-012 1.376 acres  
 APN 015-03-018 0.619 acres

**Previous Soil Testing Results:  
 Vacant Lot**

Phase II Investigation  
 San Jose, CA 95002  
**FIGURE 2a**  
 geologica





**EXPLANATION**

- ⊕ Soil Sampling Location (E2C, 2004)
- ⊕ Groundwater Sampling Location (E2C, 2004)
- 24** Analyte concentration in soil in milligrams per kilogram (mg/Kg)
- <25 Analyte not Detected above reporting limit
- Not Analyzed

	Table S-1 Direct Exposure ESL (C/l)	Table S-2 Soil Leaching ESL
TPH-d	1,200	3,400
TPH-mo	140,000	-
TOG	-	-
PCBs	1	6.3

	TE-3 @2'	TE-3 @3'	TE-3a @4'	TE-3b @4'	TE-3c @4'	TE-3d @4'
TOG	<25	110	-	-	-	-
TPH-d	-	-	115	24	98	23
TPH-mo	-	-	134	40	170	21

	TE-4 @2'	TE-4 @4'
TOG	<25	4,700

	TE-5 @2'	TE-5 @4'
TPH-d	16	10
TPH-mo	<0.1	<0.1

	TE-6 @2'	TE-6 @4'
TPH-d	<0.1	17
TPH-mo	<0.1	4.7

	PH-8 @2'	PH-8 @4'
TPH-d	6.5	1.7

	PH-7 @2'	PH-7 @4'
TPH-d	278	17

	PH-1 @3'	PH-1a @1'
TPH-g	<0.3	<0.3
TPH-d	261	28

	PH-2 @2'	PH-2 @3'
TPH-g	<0.3	<0.3
TPH-d	5	507

	PH-3 @2'	PH-3 @4'
TPH-g	<0.3	<0.3
TPH-d	183	27

	PH-9 @2'	PH-9 @4'
TPH-d	16	4.0

	PH-5 @2'	PH-5 @4'
TPH-d	8.3	<0.1

	PH-6 @2'	PH-6 @4'
TPH-d	75	<0.1

	PH-10 @2'	PH-10 @4'
TPH-d	<0.1	716
TPH-mo	-	1,250

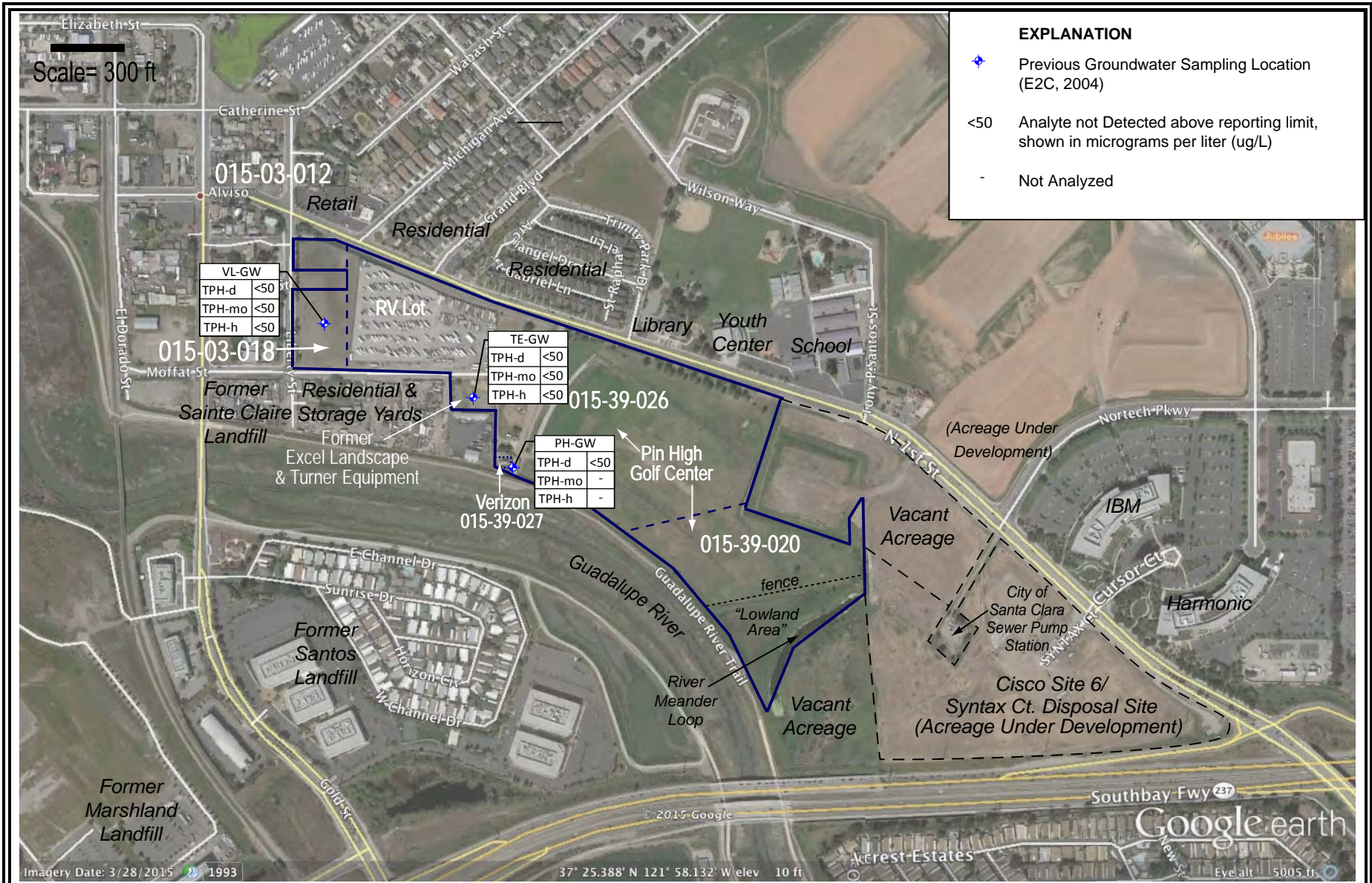
	PH-4 @2'	PH-4 @4'
TPH-g	<0.3	<0.3
TPH-d	26	8



APN 015-39-020	10.81 acres
APN 015-39-026	25.36 acres
APN 015-39-027	~0.10 acres
APN 015-03-012	1.376 acres
APN 015-03-018	0.619 acres

**Previous Soil Testing Results:  
Former Turner Equipment / Excel Landscaping  
and Golf Maintenance Yard**  
Phase II Investigation  
San Jose, CA 95002  
**FIGURE 2b**  
geologica





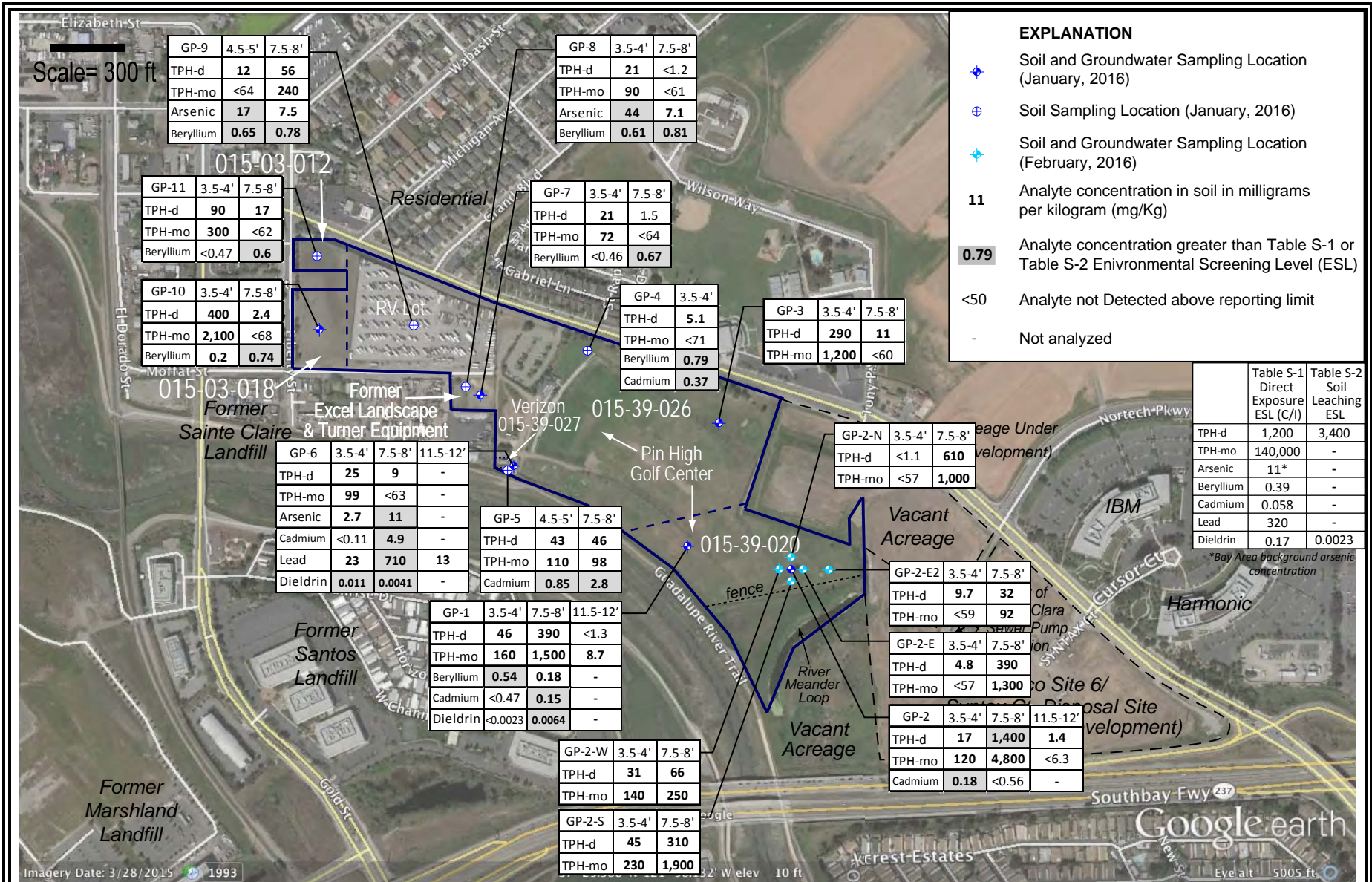
APN 015-39-020	10.81 acres
APN 015-39-026	25.36 acres
APN 015-39-027	~0.10 acres
APN 015-03-012	1.376 acres
APN 015-03-018	0.619 acres

## Previous Groundwater Testing Results

Phase II Investigation  
San Jose, CA 95002

FIGURE 3  
geologica





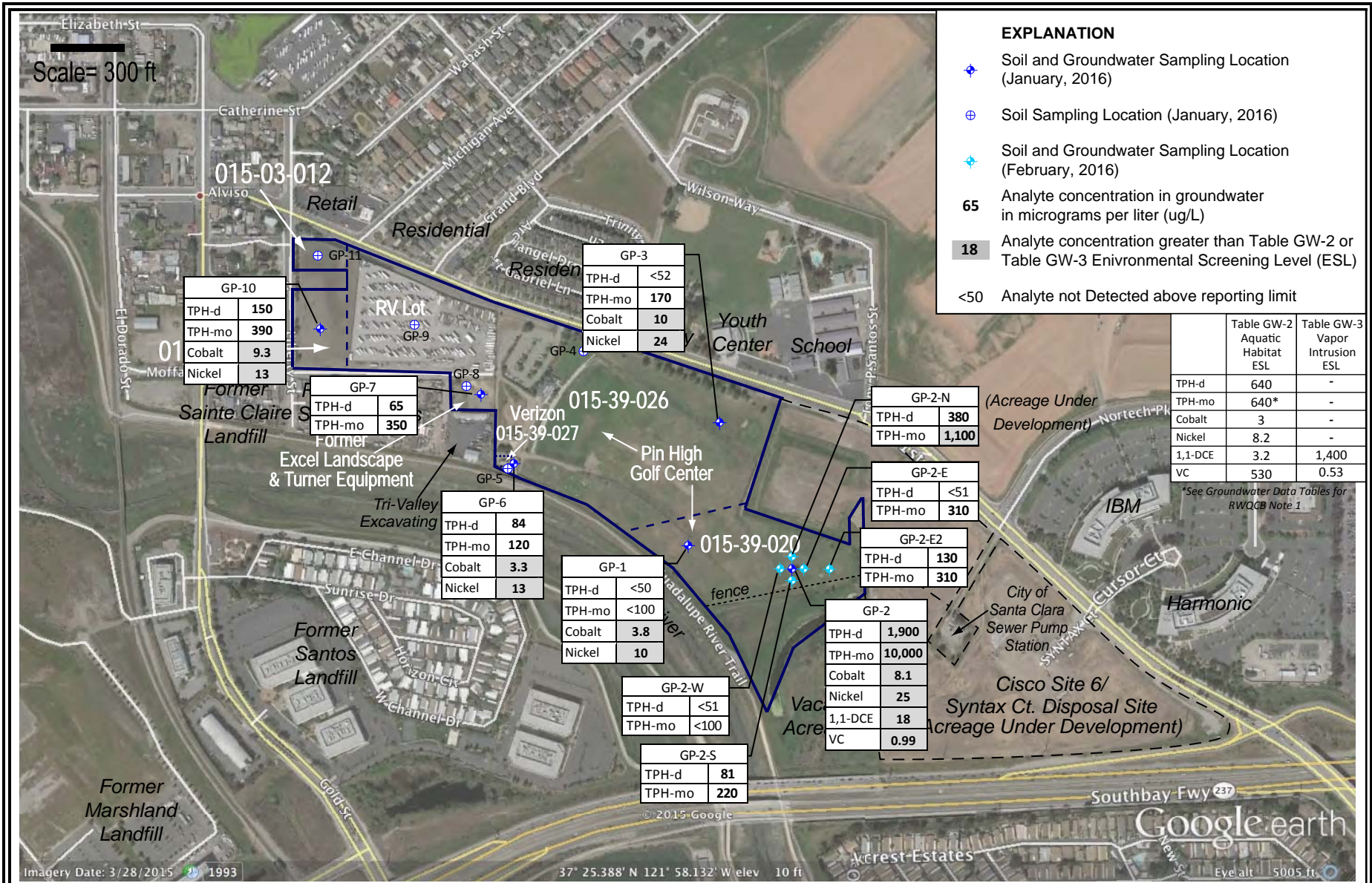
APN 015-39-020	10.81 acres
APN 015-39-026	25.36 acres
APN 015-39-027	~0.10 acres
APN 015-03-012	1.376 acres
APN 015-03-018	0.619 acres

## Current Soil Testing Results

Phase II Investigation  
San Jose, CA 95002

FIGURE 4  
geologica





APN 015-39-020	10.81 acres
APN 015-39-026	25.36 acres
APN 015-39-027	~0.10 acres
APN 015-03-012	1.376 acres
APN 015-03-018	0.619 acres

## Groundwater "Grab" Testing Results

### Phase II Investigation

### San Jose, CA 95002

FIGURE 5  
geologica

# Appendix A

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## **E2C (2004b) Previous Phase II Data**

Table A-1

**Summary of Previous Soil Sampling Results(E2C, 2004)  
Pin High Golf Center  
San Jose, CA**

Method	Analyte	Units	PH-1@3'	PH-1A@1'	PH-2@2'	PH-2@3'	PH-2@4'	PH-3@2'	PH-3@4'	PH-4@2'	PH-4@4'	PH-5@2'	PH-5@4'	PH-6@2'	PH-6@4'	PH-7@2'	PH-7@4'	PH-8@2'	PH-8@4'	PH-9@2'	PH-9@4'	PH-10@2'	PH-10@4'	Table S-1 ESLs <sup>(3)</sup>	Table S-2 ESLs <sup>(4)</sup>		
Sample Depth (feet)			3	1	2	3	4	2	4	2	4	2	4	2	4	2	4	2	4	2	4	2	4	Direct Exposure (C/I)	Soil Leaching		
Sample Date			6/25/04	6/25/04	6/25/04	6/25/04	6/25/04	6/25/04	6/25/04	6/25/04	6/25/04	8/12/04	8/12/04	8/12/04	8/12/04	8/12/04	8/12/04	8/12/04	8/12/04	8/12/04	8/12/04	8/12/04	8/12/04				
<b>Petroleum Hydrocarbons</b>																											
	TPH Gasoline	mg/Kg	<0.3	<0.3	<0.3	<0.3	-	<0.3	<0.3	<0.3	<0.3	-	-	-	-	-	-	-	-	-	-	-	-	-	4,100	3,400	
	TPH Diesel	mg/Kg	261	28	5	507	-	183	27	26	8	8.3	<0.1	74.9	<0.1	277.8	17.2	6.5	1.7	15.7	4.0	<0.1	715.5	1,200	3,600		
	TPH Motor Oil	mg/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	140,000	-		
	TPH Hydraulic Fluid	mg/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	424.1	-		
<b>Volatile Organic Compounds (VOCs)</b>																											
8260B	all VOCs	mg/Kg	<1.0-2.0	<1.0-2.0	-	<2.0-4.0	-	<1.0-2.0	<1.0-2.0	<1.0-2.0	<1.0-2.0	-	-	-	-	-	-	-	-	-	-	-	-	-	various	various	
<b>Pesticides</b>																											
8081A	all Pesticides	mg/Kg	<0.05-0.1	<0.05-0.1	<0.05-0.1	-	<0.05-0.1	<0.05-0.1	<0.05-0.1	<0.05-0.1	<0.05-0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	various	various	
<b>Polychlorinated Biphenyls (PCBs)</b>																											
8082B	all PCBs	mg/Kg	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	various	various	

Notes:

- (1) mg/Kg = milligrams per kilogram
- (2) Tier 1 Environmental Screening Levels (ESLs) for unrestricted land use.
- (3) Table S-1: Soil Direct Exposure Human Health Risk Screening Levels (Commercial/Industrial).
- (4) Table S-2: Soil Leaching to Groundwater Screening Levels (Organic Compounds only)
- <0.05 = Not detected above Method Reporting Limit.
- = Not analyzed or not established.



Table A-2

Summary of Previous Soil Sampling Results (E2C, 2004)  
Former Turner Equipment Grading Parcel  
San Jose, CA

Method	Analyte	Units	TE-1@2'	TE-1@4'	TE-1A@2.0'	TE-1A@4.0'	TE-1B@2.0'	TE-1B@4.0'	TE-2@2'	TE-2@4'	TE-2B@2.0'	TE-2B@4.0'	TE-2C@2.0'	TE-2C@4.0'	TE-2D@2.0'	TE-2D@4.0'	Table S-1 ESLs <sup>(3)</sup>	Table S-2 ESLs <sup>(4)</sup>
			2	4	2	4	2	4	2	4	2	4	2	4	2	4	Direct Exposure (C/I)	Soil Leaching
Sample Depth (feet)			2	4	2	4	2	4	2	4	2	4	2	4	2	4		
Sample Date			6/25/04	6/25/04	8/11/04	8/11/04	8/11/04	8/11/04	6/25/04	6/25/04	8/11/04	8/11/04	8/11/04	8/11/04	8/11/04	8/11/04		

**Petroleum Hydrocarbons**

SM 5520C	Total Oil and Grease (TOG)	mg/Kg	<25	<25	-	-	-	-	<25	<25	-	-	-	-	-	-	-	-
8015M	TPH Diesel	mg/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,200	3,600
	TPH Motor Oil	mg/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	140,000	-
	TPH Hydraulic Fluid	mg/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

**CAM 17 Metals**

6010B	Antimony	mg/Kg	<1	<1	-	-	-	-	<1	<10	-	-	-	-	-	-	470	--	
	Arsenic	mg/Kg	<1	<b>6.7</b>	-	<b>17.4</b>	-	<b>8.8</b>	<1	<10	-	-	-	-	-	-	<b>11</b> <sup>(5)</sup>	--	
	Barium	mg/Kg	<b>180</b>	<b>180</b>	-	-	-	-	<b>140</b>	<b>310</b>	-	-	-	-	-	-	220,000	--	
	Beryllium	mg/Kg	<1	<1	-	-	-	-	<1	<10	-	-	-	-	-	-	0.39	--	
	Cadmium	mg/Kg	<1	<1	-	-	-	-	<1	<10	-	-	-	-	-	-	0.058	--	
	Chromium	mg/Kg	<b>75</b>	<b>65</b>	<b>59</b>	<b>59.3</b>	<b>57.3</b>	<b>62.8</b>	<b>59</b>	<b>72</b>	<b>62</b>	<b>39.3</b>	<b>31.6</b>	<b>70.9</b>	<b>69.6</b>	<b>36.7</b>	1,800,000 (Cr III)	--	
	Cobalt	mg/Kg	<b>24</b>	<b>15</b>	-	-	-	-	<b>12</b>	<b>19</b>	-	-	-	-	-	-	350	--	
	Copper	mg/Kg	<b>29</b>	<b>39</b>	-	-	-	-	<b>27</b>	<b>44</b>	-	-	-	-	-	-	47,000	--	
	Lead	mg/Kg	<b>13</b>	<b>61</b>	-	-	-	-	<b>26</b>	<b>23</b>	-	-	-	-	-	-	320	--	
	Molybdenum	mg/Kg	<1	<b>1.2</b>	-	-	-	-	<1	<10	-	-	-	-	-	-	5,800	--	
	Nickel	mg/Kg	<b>72</b>	<b>110</b>	-	-	-	-	<b>94</b>	<b>75</b>	-	-	-	-	-	-	11,000	--	
	Selenium	mg/Kg	<b>11</b>	<5	<5	<5	<5	<5	<5	<5	<5	<5	-	<5	-	<5	-	5,800	--
	Silver	mg/Kg	<1	<1	-	-	-	-	<1	<10	-	-	-	-	-	-	-	5,800	--
	Thallium	mg/Kg	<5	<5	<5	<5	<5	<5	<5	<5	<5	-	<5	-	<5	-	12	--	
	Vanadium	mg/Kg	<b>67</b>	<b>41</b>	-	-	-	-	<b>38</b>	<b>68</b>	-	-	-	-	-	-	580,000	--	
Zinc	mg/Kg	<b>48</b>	<b>83</b>	-	-	-	-	<b>65</b>	<b>80</b>	-	-	-	-	-	-	350,000	--		
Mercury	mg/Kg	<0.05	<b>4.0</b>	-	<b>3.49</b>	-	<0.05	<b>0.079</b>	<b>0.085</b>	-	-	-	-	-	-	190	--		

**Volatile Organic Compounds (VOCs)**

8260B	all VOCs	mg/Kg	<1.0-2.0	<1.0-2.0	-	-	-	-	<1.0-2.0	<1.0-2.0	-	-	-	-	-	-	various	various
-------	----------	-------	----------	----------	---	---	---	---	----------	----------	---	---	---	---	---	---	---------	---------

Notes:

(1) mg/Kg = milligrams per kilogram

(2) Tier 1 Environmental Screening Levels (ESLs) for unrestricted land use.

(3) Table S-1: Soil Direct Exposure Human Health Risk Screening Levels (Commercial/Industrial).

(4) Table S-2: Soil Leaching to Groundwater Screening Levels (Organic Compounds only)

5: Bay Area background arsenic concentration - see [http://www.waterboards.ca.gov/sanfranciscobay/water\\_issues/programs/esl.shtml](http://www.waterboards.ca.gov/sanfranciscobay/water_issues/programs/esl.shtml)

<0.05 = Not detected above Method Reporting Limit.

- = Not analyzed or not established.

**33** Sample concentration greater than one or more ESLs.

Table A-2

Summary of Previous Soil Sampling Results (E2C, 2004)  
Former Turner Equipment Grading Parcel  
San Jose, CA

Method	Analyte	Units	TE-3@2'	TE-3@3'	TE-3A@2.0'	TE-3A@4.0'	TE-3B@2.0'	TE-3B@4.0'	TE-3C@2.0'	TE-3C@4.0'	TE-3D@2.0'	TE-3D@4.0'	TE-4@2'	TE-4@4'	TE-5@2.0	TE-5@4.0	TE-6@2.0	TE-6@4.0	Table S-1 ESLs <sup>(3)</sup>	Table S-2 ESLs <sup>(4)</sup>
Sample Depth (feet)			2	3	2	4	2	4	2	4	2	4	2	4	2	4	2	4		
Sample Date			6/25/04	6/25/04	8/11/04	8/11/04	8/11/04	8/11/04	8/11/04	8/11/04	8/11/04	8/11/04	6/25/04	6/25/04	8/11/04	8/11/04	8/11/04	8/11/04	Direct Exposure (C/I)	Soil Leaching

**Petroleum Hydrocarbons**

SM 5520C	Total Oil and Grease (TOG)	mg/Kg	<25	<b>110</b>	-	-	-	-	-	-	-	-	<25	<b>4,700</b>	-	-	-	-	-	-
8015M	TPH Diesel	mg/Kg	-	-	-	<b>115</b>	-	<b>23.8</b>	-	<b>97.5</b>	-	<b>23.2</b>	-	-	<b>15.9</b>	<b>10.1</b>	<0.1	<b>17</b>	1,200	3,600
	TPH Motor Oil	mg/Kg	-	-	-	<b>134</b>	-	<b>40.2</b>	-	<b>169.7</b>	-	<b>20.9</b>	-	-	<0.1	<0.1	<0.1	<b>4.7</b>	140,000	-
	TPH Hydraulic Fluid	mg/Kg	-	-	-	<b>47.4</b>	-	<0.1	-	<b>41.1</b>	-	<0.1	-	-	<0.1	<0.1	<0.1	<0.1	-	-

**CAM 17 Metals**

6010B	Antimony	mg/Kg	<1	<1	-	-	-	-	-	-	-	-	<5	<1	<5	<5	<5	<5	470	--
	Arsenic	mg/Kg	<b>33</b>	<b>31</b>	<b>8.8</b>	<b>7</b>	<b>10.1</b>	<5	<b>11.1</b>	<b>9.3</b>	<b>12.5</b>	<b>18.1</b>	<b>20</b>	<b>12</b>	<b>9.5</b>	<b>31.1</b>	<b>8.2</b>	<b>26.6</b>	<b>11<sup>(5)</sup></b>	--
	Barium	mg/Kg	<b>150</b>	<b>110</b>	-	-	-	-	-	-	-	-	<b>110</b>	<b>69</b>	<b>122</b>	<b>182</b>	<b>114</b>	<b>198</b>	220,000	--
	Beryllium	mg/Kg	<1	<1	-	-	-	-	-	-	-	-	<1	<1	<1	<1	<1	<1	0.39	--
	Cadmium	mg/Kg	<1	<1	-	-	-	-	-	-	-	-	<5	<1	<2	<2	<2	<2	0.058	--
	Chromium	mg/Kg	<b>46</b>	<b>36</b>	<b>39.5</b>	-	<b>28</b>	-	<b>51.3</b>	-	<b>33.4</b>	-	<b>66</b>	<b>25</b>	<b>42.1</b>	<b>58.9</b>	<b>29.5</b>	<b>58.8</b>	1,800,000 (Cr III)	--
	Cobalt	mg/Kg	<b>13</b>	<b>8</b>	-	-	-	-	-	-	-	-	<b>15</b>	<b>6</b>	<b>10.2</b>	<b>14.1</b>	<b>8.1</b>	<b>14.3</b>	350	--
	Copper	mg/Kg	<b>30</b>	<b>25</b>	-	-	-	-	-	-	-	-	<b>33</b>	<b>15</b>	<b>24.2</b>	<b>39.7</b>	<b>21.9</b>	<b>34.9</b>	47,000	--
	Lead	mg/Kg	<b>44</b>	<b>42</b>	-	-	-	-	-	-	-	-	<b>26</b>	<b>7.6</b>	<b>14.1</b>	<b>95.4</b>	<b>49.7</b>	<b>49.2</b>	320	--
	Molybdenum	mg/Kg	<1	<1	-	-	-	-	-	-	-	-	<5	<1	<b>1.9</b>	<b>1.7</b>	<b>2</b>	<b>2.1</b>	5,800	--
	Nickel	mg/Kg	<b>75</b>	<b>68</b>	-	-	-	-	-	-	-	-	<b>70</b>	<b>39</b>	<b>44.2</b>	<b>97.2</b>	<b>38</b>	<b>99.2</b>	11,000	--
	Selenium	mg/Kg	<5	<b>10</b>	<5	<5	<5	<5	<5	<5	<5	<5	<5	<b>7.9</b>	<5	<5	<5	<5	5,800	--
	Silver	mg/Kg	<1	<1	-	-	-	-	-	-	-	-	<1	<1	<b>2.2</b>	<b>2.6</b>	<b>1.8</b>	<b>2.7</b>	5,800	--
	Thallium	mg/Kg	<5	<5	-	<5	-	<5	-	<5	-	<b>11.3</b>	<5	<5	<5	<5	<5	<5	12	--
	Vanadium	mg/Kg	<b>39</b>	<b>35</b>	-	-	-	-	-	-	-	-	<b>51</b>	<b>20</b>	<b>51.9</b>	<b>42.8</b>	<b>34.8</b>	<b>43.2</b>	580,000	--
Zinc	mg/Kg	<b>77</b>	<b>62</b>	-	-	-	-	-	-	-	-	<b>60</b>	<b>29</b>	<b>54.6</b>	<b>85.2</b>	<b>62.6</b>	<b>63.2</b>	350,000	--	
Mercury	mg/Kg	<b>1.5</b>	<b>0.297</b>	-	-	-	-	-	-	-	-	<b>0.074</b>	<b>0.177</b>	<0.05	<b>2.93</b>	<b>0.15</b>	<b>2.77</b>	190	--	

**Volatile Organic Compounds (VOCs)**

8260B	all VOCs	mg/Kg	<2.0-4.0	<1.0-2.0	-	-	-	-	-	-	-	-	<1.0-2.0	<1.0-2.0	-	-	-	-	various	various
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Notes:

(1) mg/Kg = milligrams per kilogram

(2) Tier 1 Environmental Screening Levels (ESLs) for unrestricted land use.

(3) Table S-1: Soil Direct Exposure Human Health Risk Screening Levels (Commercial/Industrial).

(4) Table S-2: Soil Leaching to Groundwater Screening Levels (Organic Compounds only)

5: Bay Area background arsenic concentration - see [http://www.waterboards.ca.gov/sanfranciscobay/water\\_issues/programs/esl.shtml](http://www.waterboards.ca.gov/sanfranciscobay/water_issues/programs/esl.shtml)

<0.05 = Not detected above Method Reporting Limit.

- = Not analyzed or not established.

**33** Sample concentration greater than one or more ESLs.

Table A-3

Summary of Previous Soil Sampling Results (E2C, 2004)  
Vacant Parcels 012 and 018  
San Jose, CA

Method	Analyte	Units	VL-1	VL-1a	VL-1b	VL-1c	VL-1d	VL-2	VL-2a	VL-2b	VL-2c	VL-2d	VL-3	VL-3a	VL-3b	VL-3c	VL-3d	VL-4	VL-4a	VL-4b	VL-4c	VL-4d	Table S-1 ESLs <sup>(3)</sup>	Table S-2 ESLs <sup>(4)</sup>
Sample Depth (feet)			1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	Direct Exposure (C/I)	Soil Leaching
Sample Date			6/25/04	8/11/04	8/11/04	8/11/04	8/11/04	6/25/04	8/11/04	8/11/04	8/11/04	8/11/04	6/25/04	8/11/04	8/11/04	8/11/04	8/11/04	6/25/04	8/11/04	8/11/04	8/11/04	8/11/04		

**Petroleum Hydrocarbons**

SM 5520C	Total Oil and Grease (TOG)	mg/Kg	<25	-	-	-	-	670	-	-	-	-	<25	-	-	-	-	<25	-	-	-	-		
8015M	TPH Gasoline	mg/Kg	<0.3	-	-	-	-	<0.3	-	-	-	-	<0.3	-	-	-	-	<0.3	-	-	-	-	4,100	3,400
	TPH Diesel	mg/Kg	5	-	-	-	-	590	594.9	96	985.5	101.1	165	<0.1	0.6	12.2	510.9	15	-	-	-	-	1,200	3,600
	TPH Motor Oil	mg/Kg	-	-	-	-	-	-	971	106.4	686.7	222.9	-	-	-	-	-	-	-	-	-	-	140,000	--
	TPH Hydraulic Fluid	mg/Kg	-	-	-	-	-	-	344.1	31.1	410.2	83.1	-	-	-	-	-	-	-	-	-	-		

**CAM 17 Metals**

6010B	Antimony	mg/Kg	<1	-	-	-	-	<1	-	-	-	-	<1	-	-	-	-	<1	-	-	-	-	470	--
	Arsenic	mg/Kg	29	155	<5	<5	19.6	40	<5	15.3	15.1	10.8	33	8.5	<5	10.9	6.8	56	7.9	<5	<5	24.9	11 <sup>(5)</sup>	--
	Barium	mg/Kg	180	-	-	-	-	140	-	-	-	-	250	-	-	-	-	260	-	-	-	-	220,000	--
	Beryllium	mg/Kg	<1	-	-	-	-	<1	-	-	-	-	<1	-	-	-	-	<1	-	-	-	-	0.39	--
	Cadmium	mg/Kg	<1	-	-	-	-	<1	-	-	-	-	<1	-	-	-	-	<1	-	-	-	-	0.058	--
	Chromium	mg/Kg	51	-	-	-	-	59	71.1	72.3	45.2	53.5	62	50.5	48.2	50.8	47.2	91	76.7	48.9	5.9	64.1	1,800,000 (Cr III)	--
	Cobalt	mg/Kg	14	-	-	-	-	17	-	-	-	-	15	-	-	-	-	17	-	-	-	-	350	--
	Copper	mg/Kg	26	-	-	-	-	47	-	-	-	-	39	-	-	-	-	45	-	-	-	-	47,000	--
	Lead	mg/Kg	14	-	-	-	-	53	-	-	-	-	17	-	-	-	-	74	-	-	-	-	320	--
	Molybdenum	mg/Kg	<1	-	-	-	-	<1	-	-	-	-	<1	-	-	-	-	<1	-	-	-	-	5,800	--
	Nickel	mg/Kg	58	-	-	-	-	130	-	-	-	-	85	-	-	-	-	140	-	-	-	-	11,000	--
	Selenium	mg/Kg	8.9	-	-	-	-	<5	-	-	-	-	<5	-	-	-	-	<5	-	-	-	-	5,800	--
	Silver	mg/Kg	<1	-	-	-	-	<1	-	-	-	-	<1	-	-	-	-	<1	-	-	-	-	5,800	--
	Thallium	mg/Kg	<5	17	<5	<5	<5	<5	<5	<5	<5	<5	<5	<25	<5	<5	<5	<5	5.2	<5	<5	<5	<5	12
Vanadium	mg/Kg	45	-	-	-	-	66	-	-	-	-	48	-	-	-	-	52	-	-	-	-	580,000	--	
Zinc	mg/Kg	53	-	-	-	-	86	-	-	-	-	74	-	-	-	-	93	-	-	-	-	350,000	--	
7471A	Mercury	mg/Kg	0.092	-	-	-	-	0.226	-	-	-	-	0.072	-	-	-	-	16	9.12	0.08	<0.05	7.25	190	--

**Volatile Organic Compounds (VOCs)**

8260B	all VOCs	mg/Kg	<1.0-2.0	-	-	-	-	<2.0-4.0	-	-	-	-	<1.0-2.0	-	-	-	-	<1.0-2.0	-	-	-	-	various	various
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**Pesticides**

8081A	4,4'-DDE	mg/Kg	0.14	-	-	-	-	<0.05	-	-	-	-	<0.05	-	-	-	-	1.5	-	-	<0.05	1.7	12	7.5
	4,4'-DDD	mg/Kg	<0.05	-	-	-	-	<0.05	-	-	-	-	<0.05	-	-	-	-	0.85	-	-	<0.05	1.1	8.5	1,100
	4,4'-DDT	mg/Kg	<0.05	-	-	-	-	<0.05	-	-	-	-	<0.05	-	-	-	-	0.95	-	-	<0.05	0.92	8.5	4.3
	All other Pesticides	mg/Kg	<0.05-0.1	-	-	-	-	<0.05-0.1	-	-	-	-	<0.05-0.1	-	-	-	-	<0.05-0.1	-	-	<0.05-0.1	<0.05-0.1	various	various

**Polychlorinated Biphenyls (PCBs)**

8082A	Aroclor 1254	mg/Kg	<0.1	-	-	-	-	8.1	<0.1	0.83	<0.1	0.16	<0.1	-	-	-	-	<0.1	-	-	-	-	1	6.3
	all other PCBs	mg/Kg	<0.1	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	<0.1	-	-	-	-	1	6.3

Notes:

(1) mg/Kg = milligrams per kilogram.

(2) Tier 1 Environmental Screening Levels (ESLs) for unrestricted land use.

(3) Table S-1: Soil Direct Exposure Human Health Risk Screening Levels (Commercial/Industrial).

(4) Table S-2: Soil Leaching to Groundwater Screening Levels (Organic Compounds only)

(5): Bay Area background arsenic concentration - see [http://www.waterboards.ca.gov/sanfranciscobay/water\\_issues/programs/esl.shtml](http://www.waterboards.ca.gov/sanfranciscobay/water_issues/programs/esl.shtml)

<0.05 = Not detected above Method Reporting Limit.

- = Not analyzed or not established.

73 Sample concentration greater than one or more ESLs.

Table A-3

Summary of Previous Soil Sampling Results (E2C, 2004)  
Vacant Parcels 012 and 018  
San Jose, CA

Method	Analyte	Units	VL-5	VL-5-1 (VL-5a)	VL-5-2 (VL-5b)	VL-5-3 (VL-5c)	VL-5-4 (VL-5d)	VL-6	VL-6a	VL-6b	VL-6c	VL-6d	VL-7	VL-7ad	VL-7bd	VL-7cd	VL-7dd	VL-8	VL-8a	VL-8b	VL-8c	VL-8d	VL-9	VL-9a	Table S-1 ESLs <sup>(3)</sup>	Table S-2 ESLs <sup>(4)</sup>
Sample Depth (feet)			1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	Direct Exposure (C/I)	Soil Leaching
Sample Date			6/25/04	8/11/04	8/11/04	8/11/04	8/11/04	6/25/04	8/11/04	8/11/04	8/11/04	8/11/04	6/25/04	8/11/04	8/11/04	8/11/04	8/11/04	6/25/04	8/11/04	8/11/04	8/11/04	8/11/04	6/25/04	8/11/04		

**Petroleum Hydrocarbons**

SM 5520C	Total Oil and Grease (TOG)	mg/Kg	1,100	-	-	-	-	<25	-	-	-	-	130	-	-	-	-	130	-	-	-	-	220	-		
8015M	TPH Gasoline	mg/Kg	<0.3	-	-	-	-	<0.3	-	-	-	-	<0.3	-	-	-	-	<0.3	-	-	-	-	<0.3	-	4,100	3,400
	TPH Diesel	mg/Kg	44	571.1	33.2	73.7	20.7	3	-	-	-	-	340	<0.1	<0.1	5.0	<0.1	299	114.9	45.4	50.7	35.5	251	100.6	1,200	3,600
	TPH Motor Oil	mg/Kg	-	1,748	21.7	98.8	<0.1	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	-	216.3	1.3	75.5	54.5	-	166.7	140,000	--
	TPH Hydraulic Fluid	mg/Kg	-	338.1	<0.1	26.5	<0.1	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	-	48.8	5.5	13.1	<0.1	-	40.7		

**CAM 17 Metals**

6010B	Antimony	mg/Kg	<1	-	-	-	-	<1	-	-	-	-	<1	-	-	-	-	3.0	-	-	-	-	<1	-	470	--
	Arsenic	mg/Kg	26	14	14.9	15.4	12.7	<1	-	-	-	-	12	21.2	9.7	8	10.4	<1	-	-	-	-	<1	-	11 <sup>(5)</sup>	--
	Barium	mg/Kg	130	-	-	-	-	180	-	-	-	-	190	-	-	-	-	180	-	-	-	-	170	-	220,000	--
	Beryllium	mg/Kg	<1	-	-	-	-	<1	-	-	-	-	<1	-	-	-	-	<1	-	-	-	-	<1	-	0.39	--
	Cadmium	mg/Kg	<1	-	-	-	-	<1	-	-	-	-	<1	-	-	-	-	<1	-	-	-	-	<1	-	0.058	--
	Chromium	mg/Kg	290	73.9	86.5	59.1	68.9	55	-	-	-	-	81	62.3	68.9	63.1	75.1	81	49.8	42.8	107	40.9	49	-	1,800,000 (Cr III)	--
	Cobalt	mg/Kg	38	-	-	-	-	13	-	-	-	-	18	-	-	-	-	21	-	-	-	-	15	-	350	--
	Copper	mg/Kg	27	-	-	-	-	31	-	-	-	-	39	-	-	-	-	44	-	-	-	-	31	-	47,000	--
	Lead	mg/Kg	34	-	-	-	-	16	-	-	-	-	56	-	-	-	-	53	-	-	-	-	19	-	320	--
	Molybdenum	mg/Kg	<1	-	-	-	-	<1	-	-	-	-	<1	-	-	-	-	<1	-	-	-	-	<1	-	5,800	--
	Nickel	mg/Kg	570	-	-	-	-	90	-	-	-	-	140	-	-	-	-	120	-	-	-	-	55	-	11,000	--
	Selenium	mg/Kg	<5	-	-	-	-	12	<5	<5	<5	<25	<5	<5	<5	<5	<5	13	<5	<5	<5	<5	11	<5	5,800	--
	Silver	mg/Kg	<1	-	-	-	-	<1	-	-	-	-	<1	-	-	-	-	<1	-	-	-	-	<1	-	5,800	--
	Thallium	mg/Kg	9.7	<5	-	<5	<5	5.2	<5	<5	<5	<25	8.2	<5	<5	8.5	<5	<5	<5	<5	<5	<5	<5	<5	<5	12
Vanadium	mg/Kg	40	-	-	-	-	38	-	-	-	-	48	-	-	-	-	77	-	-	-	-	54	-	580,000	--	
Zinc	mg/Kg	62	-	-	-	-	62	-	-	-	-	88	-	-	-	-	110	-	-	-	-	59	-	350,000	--	
7471A	Mercury	mg/Kg	0.061	-	-	-	-	0.069	-	-	-	-	18	9.36	2.16	<0.05	1.59	1.4	-	-	-	-	0.055	-	190	--

**Volatile Organic Compounds (VOCs)**

8260B	all VOCs	mg/Kg	<1.0-2.0	-	-	-	-	<1.0-2.0	-	-	-	-	<1.0-2.0	-	-	-	-	<2.0-4.0	-	-	-	-	<1.0-2.0	-	various	various
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**Pesticides**

8081A	4,4'-DDE	mg/Kg	<0.05	-	-	-	-	<0.05	-	-	-	-	1.2	-	-	-	-	<0.05	-	-	-	1.3	<0.05	-	12	7.5
	4,4'-DDD	mg/Kg	<0.05	-	-	-	-	<0.05	-	-	-	-	0.70	-	-	-	-	<0.05	-	-	-	0.75	<0.05	-	8.5	1,100
	4,4'-DDT	mg/Kg	<0.05	-	-	-	-	<0.05	-	-	-	-	0.70	-	-	-	-	<0.05	-	-	-	0.68	<0.05	-	8.5	4.3
	All other Pesticides	mg/Kg	<0.05-0.1	-	-	-	-	<0.05-0.1	-	-	-	-	<0.05-0.1	-	-	-	-	<0.05-0.1	-	-	-	<0.25-0.5	<0.05-0.1	-	various	various

**Polychlorinated Biphenyls (PCBs)**

8082A	Aroclor 1254	mg/Kg	<0.1	-	-	-	-	<0.1	-	-	-	-	<0.1	-	-	-	-	3.2	1.6	<0.1	1.2	<0.1	<0.1	-	1	6.3
	all other PCBs	mg/Kg	<0.1	-	-	-	-	<0.1	-	-	-	-	<0.1	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	1	6.3

Notes:

- (1) mg/Kg = milligrams per kilogram.
  - (2) Tier 1 Environmental Screening Levels (ESLs) for unrestricted land use.
  - (3) Table S-1: Soil Direct Exposure Human Health Risk Screening Levels (Commercial/Industrial).
  - (4) Table S-2: Soil Leaching to Groundwater Screening Levels (Organic Compounds only)
  - (5) Bay Area background arsenic concentration - see [http://www.waterboards.ca.gov/sanfranciscobay/water\\_issues/programs/esl.shtml](http://www.waterboards.ca.gov/sanfranciscobay/water_issues/programs/esl.shtml)
- <0.05 = Not detected above Method Reporting Limit.  
- = Not analyzed or not established.

73 Sample concentration greater than one or more ESLs.

Table A-3

Summary of Previous Soil Sampling Results (E2C, 2004)  
Vacant Parcels 012 and 018  
San Jose, CA

Method	Analyte	Units	VL-9b	VL-9c	VL-9d	VL-10	VL-10a	VL-10b	VL-10c	VL-10d	VL-11	VL-12	VL-13	VL-14a@2.0'	VL-14a@4.0'	VL-14c@2.0'	VL-14c@4.0'	VL-14d@2.0'	VL-14d@4.0'	Table S-1 ESLs <sup>(3)</sup>	Table S-2 ESLs <sup>(4)</sup>
Sample Depth (feet)			1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2	4	2	4	2	4	Direct Exposure (C/I)	Soil Leaching
Sample Date			8/11/04	8/11/04	8/11/04	6/25/04	8/11/04	8/11/04	8/11/04	8/11/04	8/11/04	8/11/04	8/11/04	8/11/04	8/11/04	8/12/04	8/12/04	8/12/04	8/12/04		
<b>Petroleum Hydrocarbons</b>																					
SM 5520C	Total Oil and Grease (TOG)	mg/Kg	-	-	-	<25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8015M	TPH Gasoline	mg/Kg	-	-	-	<0.3	-	-	-	-	-	-	-	-	-	-	-	-	-	4,100	3,400
	TPH Diesel	mg/Kg	65.1	169.9	14.3	<0.1	-	-	-	-	4.4	<0.1	<0.1	308.1	146.5	273.8	12	71.2	167.7	1,200	3,600
	TPH Motor Oil	mg/Kg	108.5	287.1	28	-	-	-	-	-	<0.1	<0.1	<0.1	476	238.5	522.4	14.2	81.7	293.3	140,000	--
	TPH Hydraulic Fluid	mg/Kg	18.3	53.2	<0.1	-	-	-	-	-	<0.1	<0.1	<0.1	171.7	69.7	151.2	<0.1	22.3	83.9		
<b>CAM 17 Metals</b>																					
6010B	Antimony	mg/Kg	-	-	-	<1	-	-	-	-	<5	<5	<5	<5	<5	<5	<5	<5	<5	470	--
	Arsenic	mg/Kg	-	-	-	<1	-	-	-	-	7.6	7.5	11.8	7.8	9.2	7.6	7.9	9.7	9.6	11 <sup>(6)</sup>	--
	Barium	mg/Kg	-	-	-	200	-	-	-	-	167	152	196	153	152	146	146	125	196	220,000	--
	Beryllium	mg/Kg	-	-	-	<1	-	-	-	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	0.39	--
	Cadmium	mg/Kg	-	-	-	<1	-	-	-	-	<2	<2	<2	<2	<2	<2	<2	<2	<2	0.058	--
	Chromium	mg/Kg	-	-	-	49	-	-	-	-	45.1	65	32.3	54	66.9	110	46.4	88.8	44.3	1,800,000 (Cr III)	--
	Cobalt	mg/Kg	-	-	-	12	-	-	-	-	10.5	16.2	9.5	13.9	14.6	14.6	11.3	12.6	10.3	350	--
	Copper	mg/Kg	-	-	-	37	-	-	-	-	30	36.7	40.4	30	31.5	25.1	23.7	25.7	22.9	47,000	--
	Lead	mg/Kg	-	-	-	54	-	-	-	-	27.8	27.9	26.4	23.6	31.3	106	18	27.5	19.8	320	--
	Molybdenum	mg/Kg	-	-	-	<1	-	-	-	-	1.5	1.5	1.7	1.8	1.9	2.1	1.8	1.7	1.5	5,800	--
	Nickel	mg/Kg	-	-	-	65	-	-	-	-	51.6	59.7	50.5	92.4	114	132	48.4	124	57.5	11,000	--
	Selenium	mg/Kg	<5	<5	<5	10	-	-	-	-	<5	<5	<5	<5	<5	<5	<5	<5	<5	5,800	--
	Silver	mg/Kg	-	-	-	<1	-	-	-	-	2.1	2.1	2.1	2.3	2.2	1.9	1.9	2.1	1.4	5,800	--
	Thallium	mg/Kg	<5	<5	<5	5.7	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	12	--
Vanadium	mg/Kg	-	-	-	41	-	-	-	-	40.7	67.6	39.9	54.4	55.1	46.5	49	47.3	42.9	580,000	--	
Zinc	mg/Kg	-	-	-	110	-	-	-	-	61.1	50.5	78.9	56.6	64.4	93	44	53.9	44.3	350,000	--	
7471A	Mercury	mg/Kg	-	-	-	0.276	-	-	-	0.1	0.08	0.32	0.23	0.15	0.1	0.06	0.24	0.11	190	--	
<b>Volatile Organic Compounds (VOCs)</b>																					
8260B	all VOCs	mg/Kg	-	-	-	<1.0-2.0	-	-	-	-	-	-	-	-	-	-	-	-	-	various	various
<b>Pesticides</b>																					
8081A	4,4'-DDE	mg/Kg	-	-	-	0.068	-	-	-	-	-	-	-	-	-	-	-	-	-	12	7.5
	4,4'-DDD	mg/Kg	-	-	-	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	8.5	1,100
	4,4'-DDT	mg/Kg	-	-	-	0.064	-	-	-	-	-	-	-	-	-	-	-	-	-	8.5	4.3
	All other Pesticides	mg/Kg	-	-	-	<0.05-0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	various	various
<b>Polychlorinated Biphenyls (PCBs)</b>																					
8082A	Aroclor 1254	mg/Kg	-	-	-	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	1	6.3
	all other PCBs	mg/Kg	-	-	-	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	1	6.3

Notes:

- (1) mg/Kg = milligrams per kilogram.
- (2) Tier 1 Environmental Screening Levels (ESLs) for unrestricted land use.
- (3) Table S-1: Soil Direct Exposure Human Health Risk Screening Levels (Commercial/Industrial).
- (4) Table S-2: Soil Leaching to Groundwater Screening Levels (Organic Compounds only)

<0.05 = Not detected above Method Reporting Limit.  
- = Not analyzed or not established.

**Table A-4**

**Summary of Previous Groundwater Analytical Results  
Various Locations  
San Jose, CA**

Method	Analyte	Units	VL-GW	TE-GW	PH-GW	Table GW-1	Table GW-2	Table GW-3
Sample Date			8/12/04	8/12/04	8/12/04	Drinking Water ESLs	Aquatic Habitat ESLs	Vapor Intrusion ESLs

**Petroleum Hydrocarbons**

8015	TPH Diesel	ug/L	<50	<50	<50	150	640	-
	TPH Motor Oil	ug/L	<50	<50	-	Note 1	--	-
	TPH Hydraulic Fluid	ug/L	<50	<50	-	-	-	-

**CAM 17 Metals**

6010B	Antimony	mg/L	<0.05	<0.05	-	0.0074	0.03	-
	Arsenic	mg/L	<0.05	<0.05	-	0.000004	0.036	-
	Barium	mg/L	<b>0.13</b>	<b>0.21</b>	-	<b>2</b>	-	-
	Beryllium	mg/L	<0.05	<0.05	-	0.0000045	0.0027	-
	Cadmium	mg/L	<0.05	<0.05	-	0.00004	0.00025	-
	Chromium	mg/L	<0.05	<0.05	-	-	0.18	-
	Cobalt	mg/L	<0.05	<0.05	-	0.006	<b>0.003</b>	-
	Copper	mg/L	<0.05	<0.05	-	0.3	0.0031	-
	Lead	mg/L	<0.05	<0.05	-	0.0002	0.0025	-
	Molybdenum	mg/L	<b>0.07</b>	<0.05	-	<b>0.0012</b>	<b>0.000051</b>	-
	Nickel	mg/L	<0.05	<0.05	-	0.099	0.24	-
	Selenium	mg/L	<0.10	<0.10	-	0.012	0.0082	-
	Silver	mg/L	<0.05	<0.05	-	0.03	0.005	-
	Thallium	mg/L	<0.10	<0.10	-	0.086	0.00019	-
	Vanadium	mg/L	<0.05	<0.05	-	0.0001	0.0063	-
	Zinc	mg/L	<0.05	<0.05	-	0.05	0.019	-
Mercury (7470A)	mg/L	<0.0002	<0.0002	-	6	0.081	-	

**Pesticides**

8081	All Pesticides	ug/L	ND	-	-	-	-	-
------	----------------	------	----	---	---	---	---	---

**Polychlorinated Biphenyls (PCBs)**

8082	all PCBs		ND	-	-	-	-	-
------	----------	--	----	---	---	---	---	---

Notes:

- = Not analyzed or not established.

<0.05 = not detected above concentration listed.

California Regional Water Quality Control Board (RWQCB), San Francisco Bay Region, February 2016 Update, Tier 1 ESLs, default environmental screening levels (ESLs) for unrestricted land use.

Table GW-1: Groundwater Direct Exposure Human Health Risk Screening Levels, RWQCB February 2016.

Table GW-2: Ecological Aquatic Habitat Goals, RWQCB February 2016.

Table GW-3. Groundwater Vapor Intrusion Human Health Risk Screening Levels (Volatile Chemicals Only); depth to groundwater less than or equal to 10 feet, Sand Scenario, RWQCB February 2016.

RWQCB Note 1 - "TPH motor oil is not soluble. TPH motor oil detections in water most likely are petroleum degradates or less likely NAPL. If the detections are degradates, add TPH motor oil and TPH diesel results and compare to TPH diesel criterion."

<b>0.07</b>	Sample concentration greater than one or more ESLs.
-------------	---

PHASE II  
ENVIRONMENTAL SITE ASSESSMENT  
4701 North First Street  
San Jose, California  
*September 20, 2004*

E<sub>2</sub>C, Inc. Project Number 2310SC01

Alviso Prop.



E<sub>2</sub>C INC  
ENVIRONMENTAL / ENGINEERING CONSULTANTS  
*Since 1970*

**PHASE II  
ENVIRONMENTAL SITE ASSESSMENT  
4701 North First Street  
San Jose, California  
*September 20, 2004***

**E<sub>2</sub>C, Inc. Project Number 2310SC01**

**Prepared For**

**Mr. James C. Rees  
Sainte Claire Corporation  
985 University Ave., Suite 12  
Los Gatos, California 95032**

**Prepared By**

**E<sub>2</sub>C, Inc.  
382 Martin Avenue  
Santa Clara, California 95050  
408.327.5700**





September 20, 2004  
Project Number 2310SC01  
Via US Mail

Sainte Claire Corporation  
985 University Ave., Suite 12  
Los Gatos, California 95032

Attn: Mr. James C. Rees  
Subject: PHASE II ENVIRONMENTAL SITE ASSESSMENT  
4701 North First Street  
San Jose, California

Dear Mr. Rees:

E<sub>2</sub>C, Inc., is pleased to present the accompanying final report of the Phase II Environmental Site Assessment prepared for the subject Site.

E<sub>2</sub>C, Inc., appreciates the opportunity to have been of service. Should you have any questions or require additional information or services please call us at 408.327.5700.

Sincerely,  
E<sub>2</sub>C, Inc.

Amy Domboski  
Project Manager

Kendall W. Price CEG/REA  
President



E<sub>2</sub>C INC  
ENVIRONMENTAL / ENGINEERING CONSULTANTS  
Since 1970

382 Martin Avenue, Santa Clara, CA 95050-3112 Tel: 408.327.5700 Fax: 408.327.5707

## CONTENTS

<b>1.0</b>	<b>SITE LOCATION AND BACKGROUND</b>	<b>1</b>
1.1	Site Location and Description .....	1
1.2	Purpose and Authorization for Completed Work.....	1
1.3	Local Hydrogeologic Conditions.....	1
1.4	Project History - Previous Investigation Evaluation .....	2
<b>2.0</b>	<b>CURRENT DIRECT-PUSH SAMPLING</b>	<b>4</b>
2.1	Direct Push Sampling Locations .....	4
2.2	Direct Push Sample Collection Methods.....	4
2.3	Direct Push Encountered Subsurface Conditions .....	5
<b>3.0</b>	<b>DIRECT-PUSH SAMPLE ANALYTICAL METHODS AND RESULTS</b>	<b>5</b>
3.1	Direct Push Sample Analytical Methods .....	5
3.2	Direct Push Soil Sample Analytical Results .....	6
3.3	Direct Push Grab Groundwater Sample Analytical Results .....	6
<b>4.0</b>	<b>CONCLUSIONS AND PLANNED ACTIVITIES</b>	<b>7</b>
4.1	Conclusions .....	7
<b>5.0</b>	<b>QUALITY ASSURANCE AND PROFESSIONAL CERTIFICATION</b>	<b>8</b>
5.1	Quality Assurance .....	8
5.2	Professional Certification .....	8
<b>6.0</b>	<b>REFERENCES</b> .....	<b>9</b>

## FIGURES & APPENDICES

FIGURE 1	USGS TOPOGRAPHIC MAP LOCATION
FIGURE 2	SITE MAP
FIGURE 3	PIN HIGH GOLF CENTER SAMPLE LOCATIONS
FIGURE 4	TURNER EQUIPMENT & GRADING SAMPLE LOCATIONS
FIGURE 5	VACANT LOT SAMPLING LOCATIONS
APPENDIX A	CHAIN-OF-CUSTODY DOCUMENTS AND LABORATORY DATA SHEETS
APPENDIX B	ENVIRONMENTAL SCREENING LEVELS, JULY 1993

## 1.0 SITE LOCATION AND BACKGROUND

### 1.1 Site Location and Description

The subject property is identified as 4701 North First Street, in the Alviso District in the city of San Jose, California (hereinafter referred to as the "Site"). The approximately 38 acre Site consists of six adjoining parcels of land totaling approximately 38 acres encompassing four Assessors Parcel Numbers. The westernmost parcel, bordering Liberty Street, covering approximately 82,500 square feet is an undeveloped vacant lot; an R.V. Storage yard adjoins to the east and occupies approx. 4 acres of land; Excel Landscaping borders the Southeastern corner of the R.V Storage Yard occupying approx. 5 acres of land, Turner Equipment & Grading situated on approx 15,000 square feet of land borders Excel Landscaping to the east; and finally The Pin High Golf Center, the easternmost parcel, utilizes approx. 23 acres of the Site. Contained within the 23 acre Pin High Golf Center is an approximately 5,000-square-foot commercial structure identified as The Pin High Golf Center Club House, restaurant and golf supply shop, a 16 acre driving range, and a Verizon Wireless Cell site (formerly G.T.E. Mobilnet). Verizon Wireless resides within an approx. 7500 square foot parcel of land protected by a double walled concrete fence, containing a 150-gallon aboveground diesel tank, and battery acid for use by its generator. The Site lies less than 30 feet from the Alviso Slough, approximately 200 feet south of the San Francisco Bay and 200 feet north of Highway 237. A Topographic Map (Figure 1) and Site Plan (Figure 2) are provided in the *Figures* section of this report.

### 1.2 Purpose and Authorization For Completed Field Work

The fieldwork described and documented in this report was performed in accordance with the recommendations and conclusions contained within the *Phase I Environmental Site Assessment presented dated April 29, 2004* (section 1.4 of current report), our *Proposal – Soil Sampling and Analysis* (E<sub>2</sub>C Inc, June 7, 2004 and August 4, 2004). The purpose of this investigation was to evaluate the presence or absence of total petroleum hydrocarbons (TPH), elemental metals, pesticides, polychlorinated biphenyls (PCB's), and volatile organic compounds (VOC's) in the groundwater, surficial, and shallow soils within the areas identified as Pin High Golf Center Maintenance Area, Turner Equipment & Grading, and the Vacant Lot identified by shaded regions on *Figure 2*. Additional site characterization sampling was performed on August 11, 2004 in any areas exceeding the *California Regional Water Quality Control Board, San Francisco Bay Region's (SF Bay RWQCB) Risk-Based Environmental Screening Levels (ESLs) for Shallow Soils (<3m bgs) Where Groundwater is NOT a Current or Potential Source of Drinking Water for Residential Land Use, Interim Final July 2003*. ESLs have been provided for reference in *Appendix B*.

### 1.3 Local Hydrogeologic Conditions

According to the U.S. Department of Agriculture, Soil Survey of The Santa Clara Area, California, the surface soils at the subject Site and in the immediate vicinity are classified as the Alviso Series, consisting of saline or "alkali" soil that occurs near and on the

margin of the tidal marsh. The average annual rainfall is about 15 inches. The parent material in very finely divided alluvium, mainly from areas of sandstone and shale rocks. The water, which in many places saturates the lower subsoil and keeps the upper subsoil and part of the surface soil constantly moist, is mostly seepage from the San Francisco Bay. The surface soil is dark-gray calcareous clay to depths of 6 to 10 inches. The surface soil grades into a dark-gray or dark grayish-brown, calcareous, medium blocky, upper subsoil of fine clay texture. Lime occurs throughout the surface soil and upper subsoil, but in the upper subsoil it is segregated as small white specks of masses. There is normally an abrupt transition to a light gray, highly calcareous; fine textured lower subsoil that has rust-brown and bluish-green mottles. The lower subsoil generally contains a few calcareous nodules, and in some places a few small nodules occur in the upper subsoil. Alviso clay, 0 to 1 percent slopes, occurs near Tidal marsh. Nearly all of the soil is moderately or strongly affected with salts.

The Site is located in the Santa Clara Valley, a northwest-southeast trending structural basin that is bound on the southwest by the San Andreas Fault Zone and the Santa Cruz Coastal Mountains, and on the northeast by the Hayward Fault, Calaveras Fault, and the Diablo Range. During the Cenozoic Era (the last 65 million years), the region has been subject to complex tectonic evolution as the ancestral California continental margin underwent transition from a convergent to a transform plate margin (Atwater, 1970). The Bay Area continues to experience forces associated with the continental margin and the San Andreas Fault System. Crustal blocks that now form the San Francisco Bay Area were broken into sinking areas that formed highland areas. Sand, clay, and gravel were eroded from these upland areas and deposited on alluvial fans or beneath the sea in the subsided structural basins. The positions of these basins and uplands shifted from time to time, and basins of sediment accumulation were uplifted (Helley & Lajoie, 1979).

The Milpitas, California, Quadrangle Topographic Map (USGS 1980) shows no physical features that would environmentally impact the Site. The map reveals no storage tanks, mines, or wells, in the immediate area. The Alviso Slough flows into the Guadalupe River forming protected wetlands boarding the site to the South. This topographic map shows the elevation of the Site to be approximately at sea level with an approximate topographic gradient direction to the north. Based on Site field observations soils varied dramatically ranging from stiff silty clays within the Pin High Golf Center Maintenance Area to fill within the Vacant Lot consisting of non-uniform conglomerates of various soil types. Groundwater within the Pin High Golf Center was first encountered at a stable depth of six feet bgs, suggesting unconfined aquifer conditions, and observed to be a dense, black, liquid typical of Bay water. On the contrary, Turner Equipment & Grading and the Vacant Lot produced groundwater at a first encountered depth of 12 feet bgs., stabilizing at nine feet bgs., suggesting confined aquifer conditions, and observed as a clear liquid with some sediment. Groundwater is expected to flow in a northwesterly direction, towards the Alviso Slough and the San Francisco Bay.

#### **1.4 Project History – Previous Investigation Evaluation**

Previous investigations pertaining to the Site reviewed by E<sub>2</sub>C, include soil sampling conducted by Earth Systems Consultants, of San Luis Obispo on July 21, 1993 regarding the G.T.E Mobilnet Alviso Cell Site determined a groundwater elevation of 5-feet below ground surface. Also, a Phase I Environmental Site Assessment, preformed by E<sub>2</sub>C, Inc. in

1996 was reviewed, updated by E<sub>2</sub>C, and presented in a Phase I Environmental Site Assessment dated April 29, 2004. Conclusions and recommendations from the April Phase I ESA were the basis for this Phase II ESA and are presented as follows:

*Based on the site inspection completed on April 6, 2004, by Amy Domboski of E2C, Inc., and review of available past and present documentation we conclude that the potential of adverse environmental impacts from past and present on-site land use exists. Observations of improper storage of chemicals and disposal of wastes in or near a waterway, mass accumulations of debris, excess oil staining on hard-pack fill and waterway embankments, and an aboveground diesel storage tanks were documented. A second aboveground diesel tank located within the Verizon Wireless premises is referenced in a hazardous materials business plan on file at the San Jose Fire Department. In response, a brief description with conclusions and recommendations of each tenants activities within the parcel boundaries owned by the Sainte Claire Corporation follows.*

### **TURNER EQUIPMENT & GRADING**

*The current activities at Turner Equipment & Grading were observed as noncompliant with state and federal automotive repair standards. An outdoor welding area is staged near the entrance to the property, utilizing a mobile unit equipped with an air compressor and containerized gases. An automotive body repair staging area with small quantity chemical storage shelves are situated under a tarp-covered, makeshift shelter. A lift is present near the rear of the premises with extensive oil staining on the hard-pack fill ground beneath. Behind a removable shed, a waste oil basin was identified with secondary containment; however, the ground around the disposal area was heavily stained.*

*Based on these observations it is our conclusion that the present operations may be adversely impacting the environment. E2C, Inc., recommends the collection of soil samples in areas where chemical storage and automotive repair exists.*

### **PIN HIGH GOLF CENTER**

*The majority of the land occupied by the Pin high Golf Center is of no apparent concern. The areas within the Club House, parking area, and driving range are well kept and clean. The only area of potential concern is the landscape maintenance area located at the rear of the premises, south of the Club House. A noncompliant 55-gallon diesel tank was observed with the absence of secondary containment, mounted on a steel frame inadequate for the load imposed by the tank. A usage log located inside the maintenance shed indicated the tank is currently being used, presumably for the landscaping equipment. A file review of the Golf Center has no record of permits, or a hazardous materials business plan, required by California regulations.*

*In conclusion, we recommend compliance of the aboveground diesel storage tank or removal from premises, and soil sampling to eliminate the possibility of contamination. Also, a hazardous materials business plan should be prepared for the Pin High Golf Center and any tenants operating a business on the property as required by California law.*

### **VERIZON WIRELESS (FORMER GTE MOBILENET)**

*Review of files at the San Jose Fire Department indicate the presence of a 150-gallon aboveground diesel tank, and battery acid (not exceeding 38-gallons per day) present within the double walled boundary of the site. Due to the locked entrance gate, a detailed inspection of the premises was not conducted. Visual observations from outside the gate were limited; the site appeared well kept and clean. If the premise occupied by Verizon Wireless is of concern for this environmental assessment, we recommend arranging a thorough inspection of this area to determine any potential environmental concerns.*

## **RV STORAGE**

No apparent concerns were identified. The use of Roundup, an over-the-counter weed killer, was observed being applied as intended throughout the asphalt-paved premises.

## **EXCEL LANDSCAPE**

The presence of noncompliant waste drums on a wooden pallet was observed near the entrance to the property. Drums should be stored, labeled and disposed of in accordance with California regulation.

## **VACANT LOT**

The parcel of land associated with the western most portion of the site, identified as an undeveloped vacant lot, representing approx. 82,500 square feet of land; had been previously utilized as engineered landfill. As part of the 1996 Phase 1 Environmental Site Assessment prepared by E2C, Inc., 28 soil samples were collected and analyzed for asbestos containing materials at representative locations throughout the Site properties. However, other constituents of concern for fill materials were not analyzed for at that time. Due to the unknown origin of the fill materials, soil samples analyzed according to the California Code of Regulations, Title 22, Criteria for Determining the Characteristics of Hazardous Materials and Wastes, is recommended to eliminate any potential environmental risk.

## **CONCLUSION**

In conclusion, the above listed areas of concern pose a potential threat to the environment. Recommended shallow soil sampling would provide a qualitative and quantitative representation of the environmental assessment with regard to the subject Site. The data obtained would help to define or eliminate the possibility of remedial efforts necessary to insure environmental soundness.

Appendix A contains specific information pertaining to E<sub>2</sub>C's current investigation of the of the subject site. Included within Appendix A are comparison tables of analytical data from each area of concern; current E<sub>2</sub>C analytical data supplied by both North State Labs and Entech Analytical Labs.

## **2.0 CURRENT DIRECT-PUSH SAMPLING**

### **2.1 Direct-Push Sampling Locations**

The direct-push sampling locations are shown on Figures 3, 4, and 5; a total of 86 direct-push borings were advanced between June 25, 2004 and August 11, 2004. Three groundwater samples, one from each area of concern, were collected on August 11, 2004. Based upon the initial site reconnaissance, sample locations were dispersed on a random grid within each area of concern resulting in four locations, sampled at two and four feet bgs., within the Pin High Golf Center Maintenance Area; four locations, sampled at two and four feet bgs., within Turner Equipment & Grading, and 10 sample locations, at one and a half feet bgs., within the Vacant Lot. Pursuant to collection and analysis of the initial sampling locations, "hotspots" were identified, initiating a second round of sampling and analysis. The additional sampling was intended to determine the lateral extent of contamination subsequently identified. Sample locations during the second round of this investigation were carefully placed within an approx. 10-foot radius from the initially identified contaminated centers whenever practical. The second collection yielded six

sampling locations, sampled at two feet and four feet bgs. within the Pin High Golf Center Maintenance Area; 11 sample locations, at two feet and four feet bgs., within Turner Equipment & Grading; and 44 sample locations, at one and a half feet bgs., within the Vacant Lot. Additionally, one groundwater sample was collected from each area of concern during the second collection.

## 2.2 Direct-Push Sample Collection Methods

E<sub>2</sub>C subcontracted the direct push sampling equipment and equipment operator services of Well Test, of San Jose, California. Well Test is a State of California licensed drilling contractor (C-57 License No. 843074). A truck mounted GeoProbe™ direct-push portable sampling rig was used to facilitate the sample collection. Steel core barrels, which are approximately 2.0-inch outside diameter and five foot in length, were direct pushed – hammered in approximate two to four foot intervals at each sampling location. This process was repeated until the desired depth was reached at each location. All subsurface sampling equipment was cleaned (decontaminated) prior to each use.

The core barrels were lined with clear plastic disposable polyethylene tubing when soil samples were retained for analysis. Soil samples, for laboratory analysis, were collected by cutting the desired section of disposable plastic tubing, sealing the ends of the tube section with plastic caps, and placing the sample in a cooler with crushed ice.

Grab groundwater samples were collected by placing PVC casing approximately 1-inch in diameter, (with five feet of screen at the bottom), into each direct-push boring sample hole. Disposable flexible plastic tubing (hand siphoning) was utilized to facilitate grab groundwater sample collection. Subsurface sampling materials were used only once and then disposed.

## 2.3 Direct-Push Encountered Subsurface Conditions

Samples collected from the Pin High Golf Center Maintenance Area and Turner Equipment & Grading were direct-pushed to a total depth of four feet below ground surface (bgs), with depth discrete soil sample collection at two and four feet. The soils encountered within these two areas consisted of black, silty clay from the ground surface in to the total depth explored. With the exception being a silty sandy lens encountered at six feet bgs in boring PH-GW, producing a stable aquifer suggesting unconfined aquifer conditions. In contrast, TE-GW consisted of a black to light gray sandy gravel lens encountered at twelve feet bgs, and stabilizing at nine feet bgs., typical of confined aquifer conditions.

Samples collected from the Vacant Lot parcel were direct-pushed to a total depth of one and a half feet bgs for soil collection. Various soil types were present without uniformity presumably due to historical land use as engineered fill. Groundwater was first encountered at 12 feet bgs and stabilized at a depth of 9 feet bgs., suggesting confined aquifer conditions.



### 3.0 DIRECT-PUSH SAMPLE ANALYTICAL METHODS AND RESULTS

#### 3.1 Direct-Push Sample Analytical Methods

All samples for laboratory analysis were placed in a cooler with crushed ice and delivered to North State Labs (NSL) (ELAP Certification No.1753) in South San Francisco, California, ProVera Analytical Laboratories, Inc. (ELAP Certification No. 1920) in Bakersfield, California, and Entech Analytical Labs, Inc. (ELAP Certification No. 2346) in Santa Clara, California State-certified analytical laboratories for analysis.

Selected soil samples collected in June 2004 from each boring were analyzed by Entech Analytical Labs, Inc. for CAM 17 Metals by Environmental Protection Agency (EPA) Method No. 6010B; Mercury by EPA 7471; Total Oil and Grease-IR by EPA 5520C; Pesticides by EPA 8081A; and PCB's by EPA 8082A. Total Petroleum Hydrocarbons as Gasoline (TPHg) and Diesel (TPHd) by EPA 8015M were analyzed at ProVera Laboratories.

Selected soil samples collected in August 2004 from each boring were analyzed by NSL for CAM 17 Metals by EPA 6010B, Mercury by EPA 7471A. ProVera Laboratories analyzed TPH as Gasoline, TPH as Diesel, TPH as Motor Oil and TPH as Hydraulic Oil all by EPA 8015M.

The Chain-Of-Custody Records and Certified Laboratory Analytical Reports are presented in *Appendix A*.

#### 3.2 Direct-Push Soil Sample Analytical Results

A summary of all detected soil sample analytical results, from both sampling events, is presented in *Tables 1, 2 and 3 within Appendix A*. Two depth discrete samples for laboratory analysis were collected from each direct-push boring relevant to PinHigh Golf Center and Turner Equipment and Grading.

Soils collected from within the Vacant Lot from which one depth discrete sample was collected at 1.5 feet below ground surface. During the second phase of sampling an "oil puddle" was observed within the Vacant Lot, identified as VL-14 on *Figure 5*, and subsequently sampled at two and four feet bgs. The "oil puddle" accumulation is presumed to be a result of inappropriate business practices within the adjoining RV Storage Facility.

One groundwater sample was collected from Turner Equipment & Grading, Excel Landscape, and Pin High Golf Center. A total of 26 soil samples were collected in June 2004 and 65 soil samples were collected for further characterization and analysis in August 2004. The highest contaminant concentration, Total Oil and Grease, was detected within the Turner Equipment portion of the site, specifically TE-4@4' at 4700 mg/kg (4700 ppm). The shaded areas presented within Figures 3, 4 and 5 identify site-specific areas of contamination.



### 3.3 Direct-Push Grab Groundwater Sample Analytical Results

Tables 1, 2, and 3 within Appendix A, present a summary of all grab groundwater sample analytical results. All analyzed grab groundwater samples were below laboratory detection limits and ESLs for each of the analyzed constituents.

## 4.0 CONCLUSIONS AND RECOMMENDATIONS

### 4.1 Conclusions

Based on the data obtained during the preparation of our ESA, E<sub>2</sub>C, Inc., draws the following conclusions:

- Pursuant to the Phase I Environmental Site Assessment presented in April of 2004, 88 soil samples and three groundwater samples were collected for subsequent analysis from primary areas of concern within the Pin High Golf Center Maintenance Area, Turner Equipment & Grading, and the Vacant Lot. The resulting analytical data indicates the presence contamination such as total petroleum hydrocarbons as diesel (TPHd) within all three locations; metals including Arsenic (As), Selenium (Se), Thallium (Tl) and Mercury (Hg) present within Turner Equipment & Grading and the Vacant Lot; and Pesticides and PCB's present within the Vacant Lot. However, although concentrations present in select locations are above the ESLs and that the impact to soil and/or the environment is eminent; groundwater at all three locations appears to be autonomous of contamination. Therefore, remedial action including further site characterization, excavation, and disposal of contaminated areas may be required prior to site redevelopment.

Therefore, E<sub>2</sub>C, Inc., recommends the following remedial action be taken:

- a. Upon termination of all business activities at the subject site, the impacted areas shall be surveyed prior to building demolition allowing for areas of remediation to be identified for over-excavation. E<sub>2</sub>C shall be present to initially identify these areas.
- b. The identified areas should then be over-excavated to the dimensions shown in Figures 2-5 of the site plans.
- c. Upon completion of the initial phase of excavation, the lateral and vertical extent of contamination can be characterized and removed from the subject site.
- d. Alternatively, encapsulating contaminated areas with certified, non-contaminated fill, to the specifications necessary for site development and usage, may prevent or reduce the implementations of recommendations a, b or c above. Also, please be advised that disclosure of contamination may be required if encapsulated.

**5.0 QUALITY ASSURANCE AND PROFESSIONAL CERTIFICATION**

**5.1 Quality Assurance**


Soil and grab groundwater samples were stored on ice and sent promptly to a State-certified analytical laboratory. Laboratories are audited by the State certification program for maintaining quality control procedures and for record keeping. Chain-of-custody records and certified laboratory analytical reports are attached as Appendix A.

**5.2 Professional Certification**

We declare, under penalty of perjury, that to the best of our knowledge, everything presented in this report is true and correct.

Should you have any questions or require supplemental information, please do not hesitate to contact us at (408) 327-5700.

Sincerely,



Amy Domboski  
Project Manager



Kendall W. Price  
President



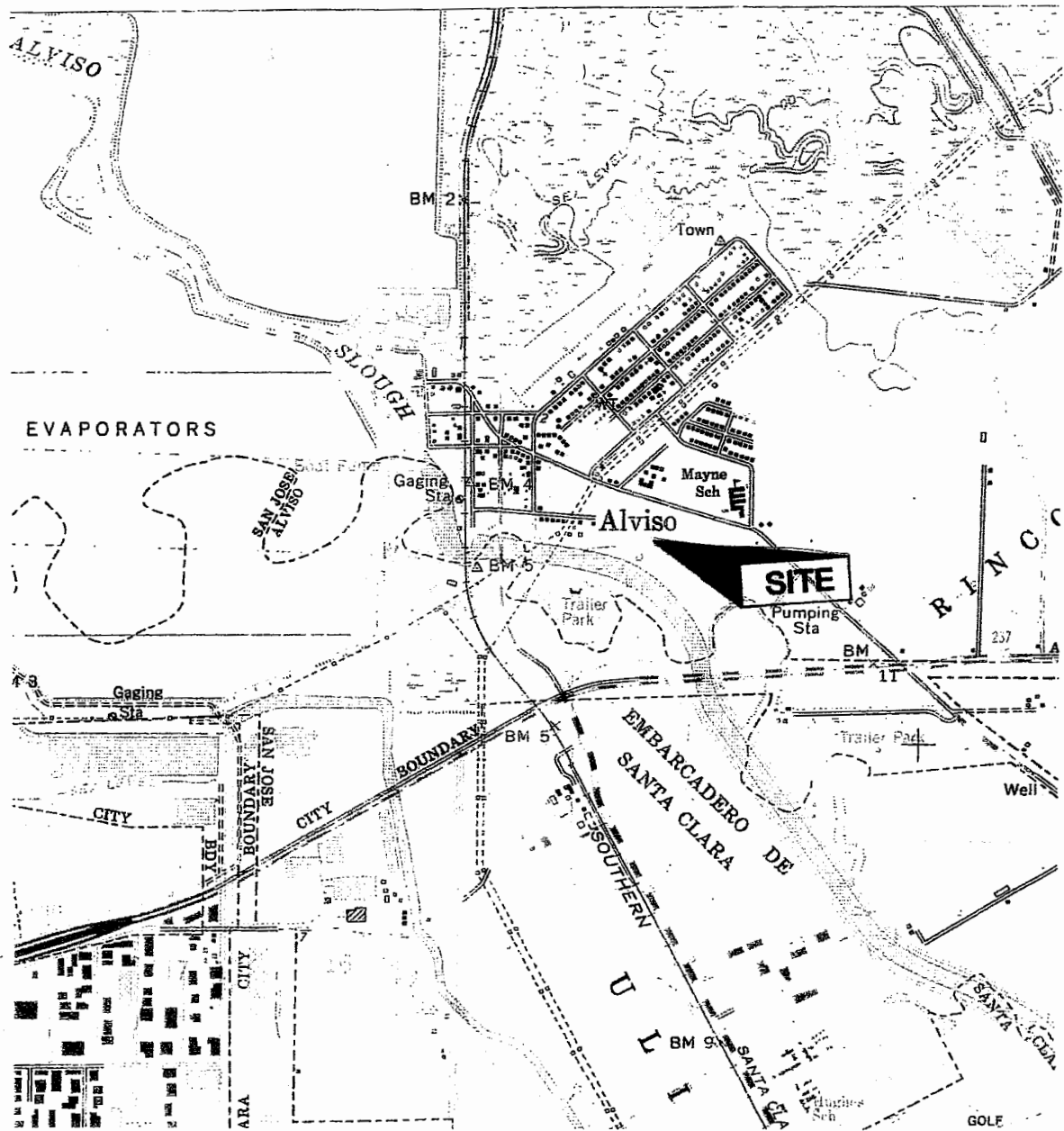
## 7.0 REFERENCES

U.S. Soil Conservation Service. Soil survey of Santa Clara County, Eastern Part, California. 1991.



E2C, Inc., Phase I Environmental Site Assessment, Pin High Golf Center, June 18, 2004.

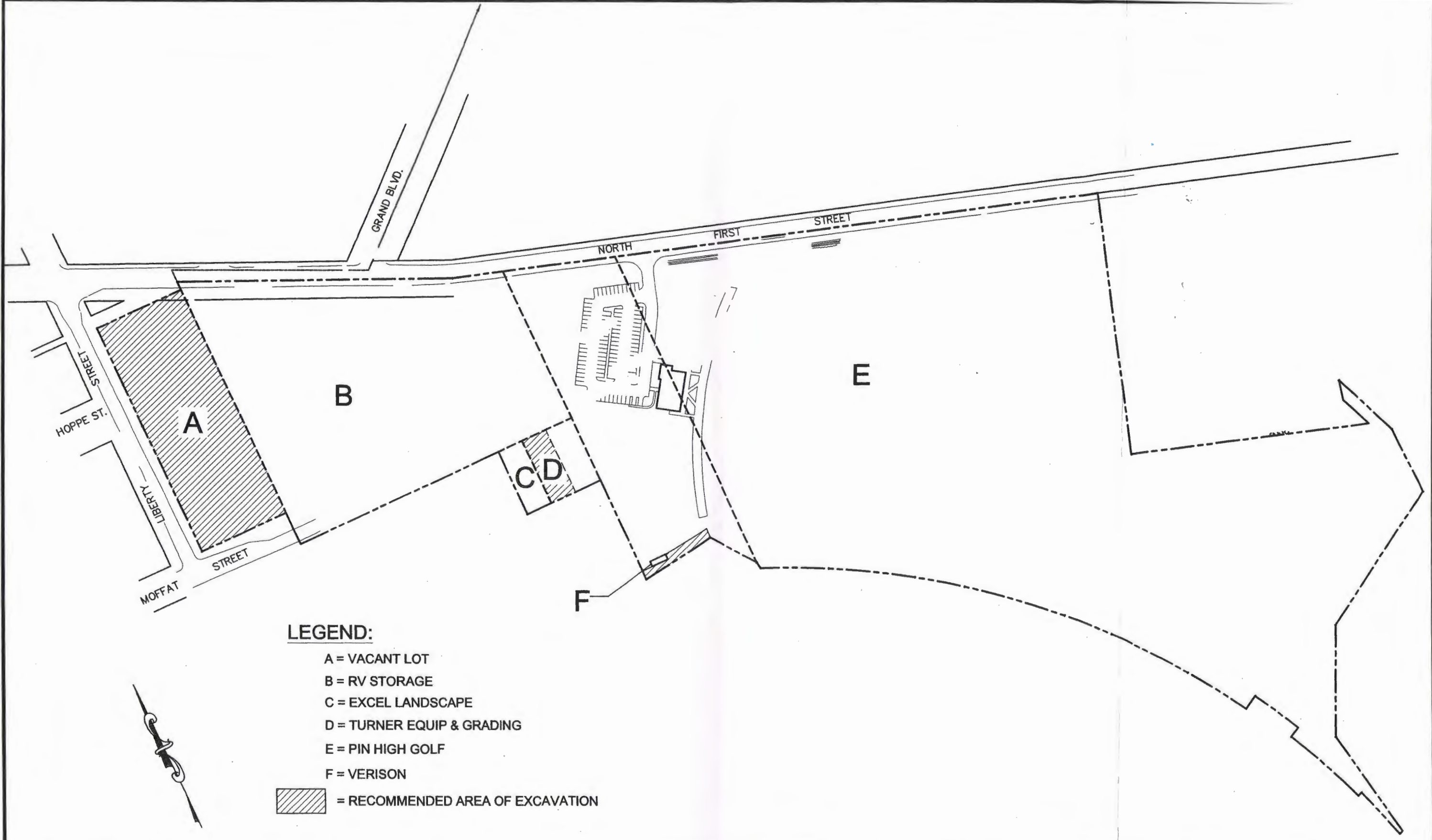
# FIGURES





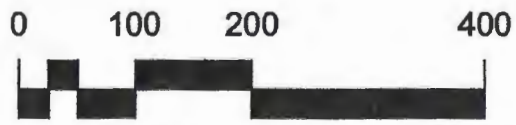
**FIGURE 1 – SITE LOCATION MAP**

Address: 4701 North First Street		Client Name: James C. Rees, Sainte Claire Corp.	
City/State: Alviso District, San Jose, California		E <sub>2</sub> C Project Number: 2310SC01	
 <p><b>ENVIRONMENTAL/ENGINEERING CONSULTANTS</b>          382 MARTIN AVENUE          SANTA CLARA, CALIFORNIA 95050-3112          TEL: 408.327.5700 FAX: 408.327-5707</p>	<p><b>Source:</b>          Milpitas, Calif. Quadrangle          1961 (photorevised 1980)  <b>Scale:</b>          1:24,000</p>		



**LEGEND:**

- A = VACANT LOT
- B = RV STORAGE
- C = EXCEL LANDSCAPE
- D = TURNER EQUIP & GRADING
- E = PIN HIGH GOLF
- F = VERISON
-  = RECOMMENDED AREA OF EXCAVATION



APPROXIMATE SCALE: 1"=200'

FIGURE 2 - SITE PLAN

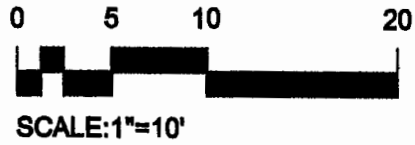


ENVIRONMENTAL / ENGINEERING CONSULTANTS  
 382 MARTIN AVENUE  
 SANTA CLARA, CALIFORNIA 95050-3112  
 TEL: 408.327.5700 FAX: 408.327.5707

4701 NORTH FIRST STREET  
 SAN JOSE, CALIFORNIA

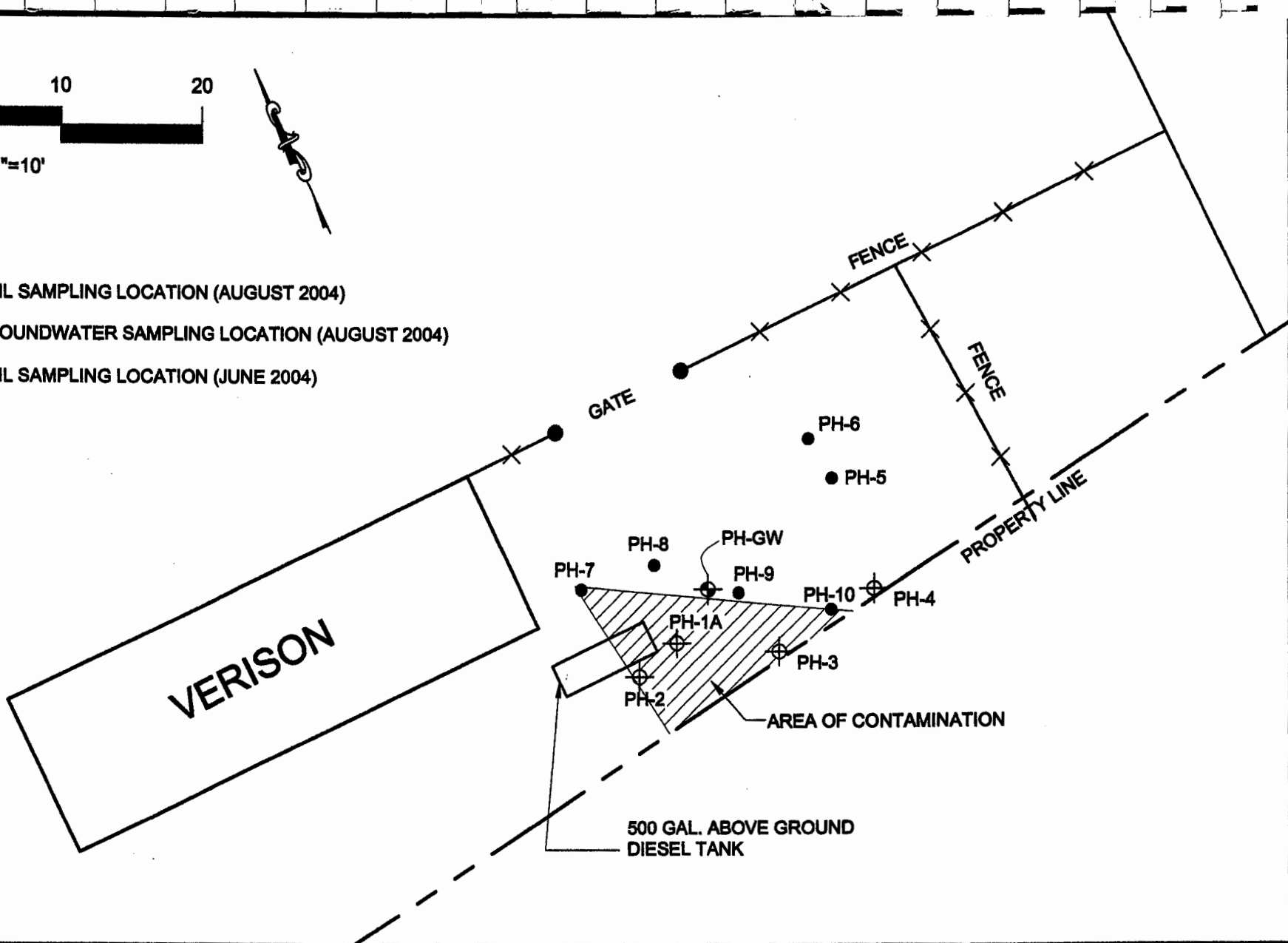
FILENAME:	2310SC01
DATE:	SEPTEMBER 2004
REVISION:	**
DRAWN:	JL

JOB NUMBER:  
 2310SC01



**LEGEND:**

- SOIL SAMPLING LOCATION (AUGUST 2004)
- ⊕ GROUNDWATER SAMPLING LOCATION (AUGUST 2004)
- ⊕ SOIL SAMPLING LOCATION (JUNE 2004)



**FIGURE 3 - SAMPLING LOCATIONS**



ENVIRONMENTAL / ENGINEERING CONSULTANTS  
 382 MARTIN AVENUE  
 SANTA CLARA, CALIFORNIA 95050-3112  
 TEL: 408.327.5700 FAX: 408.327.5707

4701 NORTH FIRST STREET  
 SAN JOSE, CALIFORNIA

FILENAME: 2310SC01
DATE: SEPTEMBER 2004
REVISION:
DRAWN: JL

**JOB NUMBER:**  
 2310SC01



0 15 30 60

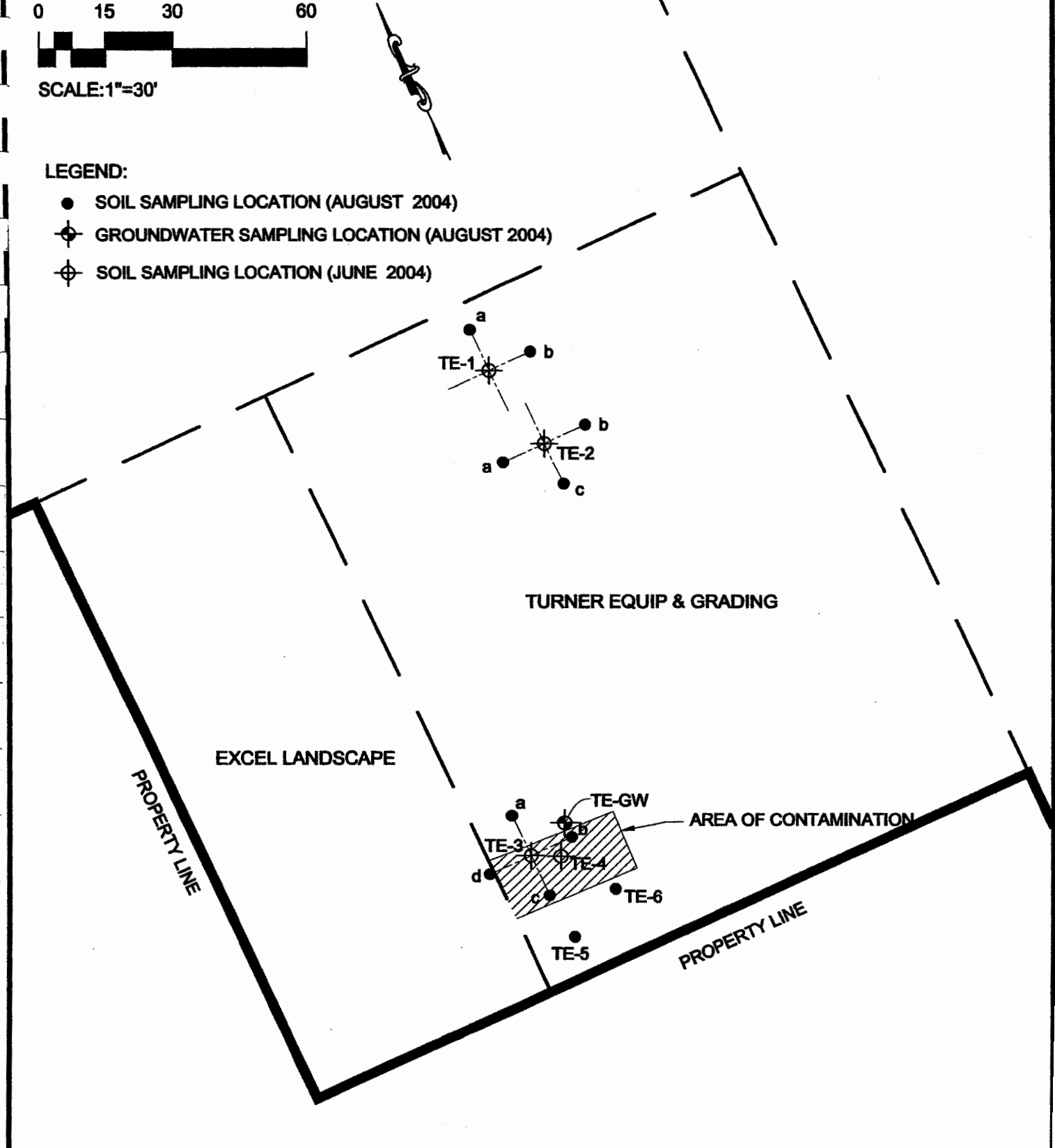


SCALE: 1"=30'



**LEGEND:**

- SOIL SAMPLING LOCATION (AUGUST 2004)
- ⊕ GROUNDWATER SAMPLING LOCATION (AUGUST 2004)
- ⊕ SOIL SAMPLING LOCATION (JUNE 2004)



**FIGURE 4 - SAMPLING LOCATIONS**



**ENVIRONMENTAL / ENGINEERING CONSULTANTS**  
 382 MARTIN AVENUE  
 SANTA CLARA, CALIFORNIA 95050-3112  
 TEL: 408.327.5700 FAX: 408.327.5707

**4701 NORTH FIRST STREET  
 SAN JOSE, CALIFORNIA**

FILENAME: 2310SC01

DATE: SEPTEMBER 2004

REVISION:

DRAWN: JL

**JOB NUMBER:**

**2310SC01**

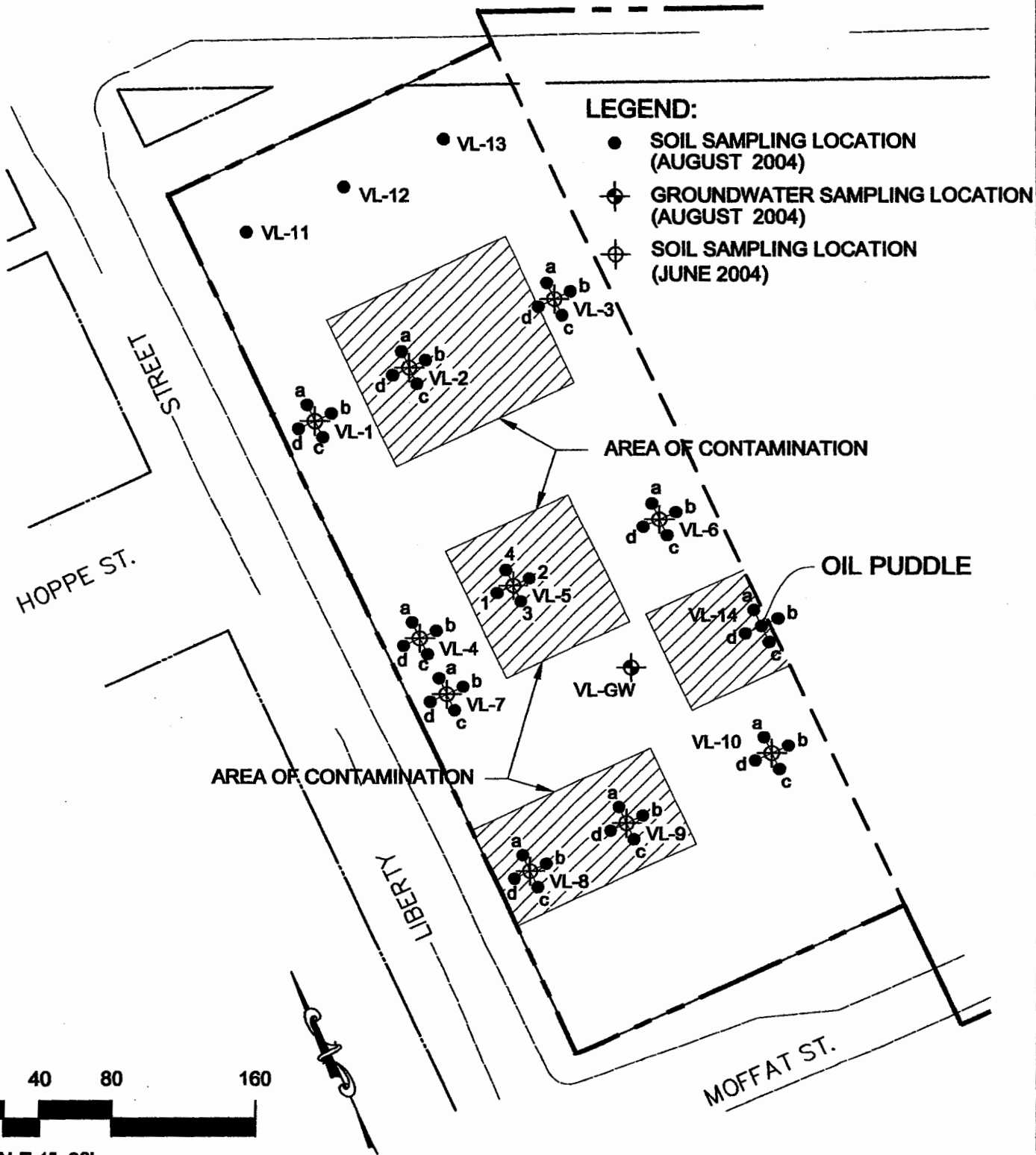


FIGURE 5 - SAMPLING LOCATIONS



ENVIRONMENTAL / ENGINEERING CONSULTANTS  
382 MARTIN AVENUE  
SANTA CLARA, CALIFORNIA 95050-3112  
TEL: 408.327.5700 FAX: 408.327.5707

4701 NORTH FIRST STREET  
SAN JOSE, CALIFORNIA

FILENAME: 2310SC01

DATE: SEPTEMBER 2004

REVISION:

DRAWN: JL

JOB NUMBER:

2310SC01

# Appendix B

---

## Analytical Laboratory Testing Reports

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.  
TestAmerica Pleasanton  
1220 Quarry Lane  
Pleasanton, CA 94566  
Tel: (925)484-1919

TestAmerica Job ID: 720-70419-1  
Client Project/Site: Pin High

For:  
Geologica Inc  
220 4th Street, suite 201  
Oakland, California 94607

Attn: Brian Aubry



Authorized for release by:  
3/1/2016 4:21:52 PM

Micah Smith, Project Manager II  
(925)484-1919  
[micah.smith@testamericainc.com](mailto:micah.smith@testamericainc.com)

### LINKS

Review your project  
results through  
**TotalAccess**

Have a Question?



Visit us at:  
[www.testamericainc.com](http://www.testamericainc.com)

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

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

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14



# Table of Contents

Cover Page . . . . .	1
Table of Contents . . . . .	2
Definitions/Glossary . . . . .	3
Case Narrative . . . . .	4
Detection Summary . . . . .	5
Client Sample Results . . . . .	7
QC Sample Results . . . . .	22
QC Association Summary . . . . .	24
Lab Chronicle . . . . .	26
Certification Summary . . . . .	31
Method Summary . . . . .	32
Sample Summary . . . . .	33
Chain of Custody . . . . .	34
Receipt Checklists . . . . .	37

# Definitions/Glossary

Client: Geologica Inc  
Project/Site: Pin High

TestAmerica Job ID: 720-70419-1

## Qualifiers

### GC Semi VOA

Qualifier	Qualifier Description
D	Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution may be flagged with a D.
X	Surrogate is outside control limits

## Glossary

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

# Case Narrative

Client: Geologica Inc  
Project/Site: Pin High

TestAmerica Job ID: 720-70419-1

**Job ID: 720-70419-1**

**Laboratory: TestAmerica Pleasanton**

## Narrative

### Job Narrative 720-70419-1

#### Comments

No additional comments.

#### Receipt

The samples were received on 2/23/2016 5:40 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.9° C.

#### GC Semi VOA

Method(s) 8015B: The following samples required a dilution due to the nature of the sample matrix: GP-2-N-7.5-8' (720-70419-13) and GP-2-S-7.5-8' (720-70419-16). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method(s) 8015B: The following sample required a dilution due to the nature of the sample matrix: GP-2-E-7.5-8' (720-70419-10). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

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

#### General Chemistry

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

#### Organic Prep

Method(s) 3510C SGC: EPA 8015B: A matrix spike/matrix spike duplicate was not included in batch 197615 because insufficient sample volume was available.

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

# Detection Summary

Client: Geologica Inc  
Project/Site: Pin High

TestAmerica Job ID: 720-70419-1

## Client Sample ID: GP-2-N

## Lab Sample ID: 720-70419-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	380		51		ug/L	1		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	1100		100		ug/L	1		8015B	Silica Gel Cleanup

## Client Sample ID: GP-2-E

## Lab Sample ID: 720-70419-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Motor Oil Range Organics [C24-C36]	150		100		ug/L	1		8015B	Silica Gel Cleanup

## Client Sample ID: GP-2-E2

## Lab Sample ID: 720-70419-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	130		52		ug/L	1		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	310		100		ug/L	1		8015B	Silica Gel Cleanup

## Client Sample ID: GP-2-S

## Lab Sample ID: 720-70419-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	81		50		ug/L	1		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	220		100		ug/L	1		8015B	Silica Gel Cleanup

## Client Sample ID: GP-2-W

## Lab Sample ID: 720-70419-5

No Detections.

## Client Sample ID: GP-2-E2-3.5-4'

## Lab Sample ID: 720-70419-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	9.7		1.2		mg/Kg	1	☼	8015B	Silica Gel Cleanup

## Client Sample ID: GP-2-E2-7.5-8'

## Lab Sample ID: 720-70419-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	32		1.1		mg/Kg	1	☼	8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	92		55		mg/Kg	1	☼	8015B	Silica Gel Cleanup

## Client Sample ID: GP-2-E-3.5-4'

## Lab Sample ID: 720-70419-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	4.8		1.1		mg/Kg	1	☼	8015B	Silica Gel Cleanup

## Client Sample ID: GP-2-E-7.5-8'

## Lab Sample ID: 720-70419-10

This Detection Summary does not include radiochemical test results.

TestAmerica Pleasanton



# Detection Summary

Client: Geologica Inc  
Project/Site: Pin High

TestAmerica Job ID: 720-70419-1

## Client Sample ID: GP-2-E-7.5-8' (Continued)

Lab Sample ID: 720-70419-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	390		11		mg/Kg	10	☼	8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	1300		570		mg/Kg	10	☼	8015B	Silica Gel Cleanup

## Client Sample ID: GP-2-N-3.5-4'

Lab Sample ID: 720-70419-12

No Detections.

## Client Sample ID: GP-2-N-7.5-8'

Lab Sample ID: 720-70419-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	610		6.0		mg/Kg	5	☼	8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	1000		300		mg/Kg	5	☼	8015B	Silica Gel Cleanup

## Client Sample ID: GP-2-S-3.5-4'

Lab Sample ID: 720-70419-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	45		2.4		mg/Kg	2	☼	8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	230		120		mg/Kg	2	☼	8015B	Silica Gel Cleanup

## Client Sample ID: GP-2-S-7.5-8'

Lab Sample ID: 720-70419-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	310		29		mg/Kg	10	☼	8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	1900		1400		mg/Kg	10	☼	8015B	Silica Gel Cleanup

## Client Sample ID: GP-2-W-3.5-4'

Lab Sample ID: 720-70419-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	31		2.4		mg/Kg	2	☼	8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	140		120		mg/Kg	2	☼	8015B	Silica Gel Cleanup

## Client Sample ID: GP-2-W-7.5-8'

Lab Sample ID: 720-70419-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	66		2.3		mg/Kg	2	☼	8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	250		110		mg/Kg	2	☼	8015B	Silica Gel Cleanup

This Detection Summary does not include radiochemical test results.

TestAmerica Pleasanton

# Client Sample Results

Client: Geologica Inc  
Project/Site: Pin High

TestAmerica Job ID: 720-70419-1

**Client Sample ID: GP-2-N**  
**Date Collected: 02/23/16 13:20**  
**Date Received: 02/23/16 17:40**

**Lab Sample ID: 720-70419-1**  
**Matrix: Water**

**Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	380		51		ug/L		02/25/16 09:29	02/25/16 19:51	1
Motor Oil Range Organics [C24-C36]	1100		100		ug/L		02/25/16 09:29	02/25/16 19:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Capric Acid (Surr)	0.05		0 - 5				02/25/16 09:29	02/25/16 19:51	1
p-Terphenyl	74		31 - 150				02/25/16 09:29	02/25/16 19:51	1

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# Client Sample Results

Client: Geologica Inc  
Project/Site: Pin High

TestAmerica Job ID: 720-70419-1

**Client Sample ID: GP-2-E**  
**Date Collected: 02/23/16 13:10**  
**Date Received: 02/23/16 17:40**

**Lab Sample ID: 720-70419-2**  
**Matrix: Water**

**Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		51		ug/L		02/25/16 09:29	02/25/16 18:52	1
<b>Motor Oil Range Organics [C24-C36]</b>	<b>150</b>		100		ug/L		02/25/16 09:29	02/25/16 18:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Capric Acid (Surr)	0.002		0 - 5				02/25/16 09:29	02/25/16 18:52	1
p-Terphenyl	95		31 - 150				02/25/16 09:29	02/25/16 18:52	1



# Client Sample Results

Client: Geologica Inc  
Project/Site: Pin High

TestAmerica Job ID: 720-70419-1

**Client Sample ID: GP-2-E2**

**Date Collected: 02/23/16 13:00**

**Date Received: 02/23/16 17:40**

**Lab Sample ID: 720-70419-3**

**Matrix: Water**

**Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	130		52		ug/L		02/25/16 09:29	02/25/16 17:53	1
Motor Oil Range Organics [C24-C36]	310		100		ug/L		02/25/16 09:29	02/25/16 17:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Capric Acid (Surr)	0.01		0 - 5				02/25/16 09:29	02/25/16 17:53	1
p-Terphenyl	95		31 - 150				02/25/16 09:29	02/25/16 17:53	1



# Client Sample Results

Client: Geologica Inc  
Project/Site: Pin High

TestAmerica Job ID: 720-70419-1

**Client Sample ID: GP-2-S**  
**Date Collected: 02/23/16 14:32**  
**Date Received: 02/23/16 17:40**

**Lab Sample ID: 720-70419-4**  
**Matrix: Water**

**Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	81		50		ug/L		02/25/16 09:29	02/25/16 19:21	1
Motor Oil Range Organics [C24-C36]	220		100		ug/L		02/25/16 09:29	02/25/16 19:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Capric Acid (Surr)	0.04		0 - 5				02/25/16 09:29	02/25/16 19:21	1
p-Terphenyl	96		31 - 150				02/25/16 09:29	02/25/16 19:21	1



# Client Sample Results

Client: Geologica Inc  
Project/Site: Pin High

TestAmerica Job ID: 720-70419-1

**Client Sample ID: GP-2-W**  
**Date Collected: 02/23/16 14:05**  
**Date Received: 02/23/16 17:40**

**Lab Sample ID: 720-70419-5**  
**Matrix: Water**

**Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		51		ug/L		02/25/16 09:29	02/25/16 18:23	1
Motor Oil Range Organics [C24-C36]	ND		100		ug/L		02/25/16 09:29	02/25/16 18:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Capric Acid (Surr)	0.003		0 - 5				02/25/16 09:29	02/25/16 18:23	1
p-Terphenyl	103		31 - 150				02/25/16 09:29	02/25/16 18:23	1

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# Client Sample Results

Client: Geologica Inc  
Project/Site: Pin High

TestAmerica Job ID: 720-70419-1

**Client Sample ID: GP-2-E2-3.5-4'**

**Lab Sample ID: 720-70419-6**

**Date Collected: 02/23/16 09:44**

**Matrix: Solid**

**Date Received: 02/23/16 17:40**

**Percent Solids: 84.4**

**Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	9.7		1.2		mg/Kg	☼	02/26/16 10:53	02/29/16 22:33	1
Motor Oil Range Organics [C24-C36]	ND		59		mg/Kg	☼	02/26/16 10:53	02/29/16 22:33	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
p-Terphenyl	79		38 - 148				02/26/16 10:53	02/29/16 22:33	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	15.6		0.1		%			02/24/16 13:33	1

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# Client Sample Results

Client: Geologica Inc  
Project/Site: Pin High

TestAmerica Job ID: 720-70419-1

**Client Sample ID: GP-2-E2-7.5-8'**

**Lab Sample ID: 720-70419-7**

Date Collected: 02/23/16 09:45

Matrix: Solid

Date Received: 02/23/16 17:40

Percent Solids: 90.5

**Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	32		1.1		mg/Kg	☼	02/26/16 10:53	02/29/16 23:02	1
Motor Oil Range Organics [C24-C36]	92		55		mg/Kg	☼	02/26/16 10:53	02/29/16 23:02	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>p-Terphenyl</i>	62		38 - 148				02/26/16 10:53	02/29/16 23:02	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	9.5		0.1		%			02/24/16 13:33	1

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# Client Sample Results

Client: Geologica Inc  
Project/Site: Pin High

TestAmerica Job ID: 720-70419-1

**Client Sample ID: GP-2-E-3.5-4'**

**Lab Sample ID: 720-70419-9**

**Date Collected: 02/23/16 10:24**

**Matrix: Solid**

**Date Received: 02/23/16 17:40**

**Percent Solids: 87.5**

**Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	4.8		1.1		mg/Kg	☼	02/26/16 10:53	02/29/16 22:04	1
Motor Oil Range Organics [C24-C36]	ND		57		mg/Kg	☼	02/26/16 10:53	02/29/16 22:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
p-Terphenyl	83		38 - 148				02/26/16 10:53	02/29/16 22:04	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	12.5		0.1		%			02/24/16 13:33	1

# Client Sample Results

Client: Geologica Inc  
Project/Site: Pin High

TestAmerica Job ID: 720-70419-1

**Client Sample ID: GP-2-E-7.5-8'**

**Lab Sample ID: 720-70419-10**

**Date Collected: 02/23/16 10:25**

**Matrix: Solid**

**Date Received: 02/23/16 17:40**

**Percent Solids: 86.5**

## Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	390		11		mg/Kg	☼	02/26/16 10:53	03/01/16 12:57	10
Motor Oil Range Organics [C24-C36]	1300		570		mg/Kg	☼	02/26/16 10:53	03/01/16 12:57	10
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
p-Terphenyl	0	X D	38 - 148				02/26/16 10:53	03/01/16 12:57	10

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	13.5		0.1		%			02/24/16 13:33	1

# Client Sample Results

Client: Geologica Inc  
Project/Site: Pin High

TestAmerica Job ID: 720-70419-1

**Client Sample ID: GP-2-N-3.5-4'**

**Lab Sample ID: 720-70419-12**

**Date Collected: 02/23/16 10:52**

**Matrix: Solid**

**Date Received: 02/23/16 17:40**

**Percent Solids: 90.7**

## Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		1.1		mg/Kg	☼	02/26/16 10:53	02/29/16 21:34	1
Motor Oil Range Organics [C24-C36]	ND		55		mg/Kg	☼	02/26/16 10:53	02/29/16 21:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>p-Terphenyl</i>	87		38 - 148				02/26/16 10:53	02/29/16 21:34	1

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Percent Moisture</b>	<b>9.3</b>		0.1		%			02/24/16 13:33	1

# Client Sample Results

Client: Geologica Inc  
Project/Site: Pin High

TestAmerica Job ID: 720-70419-1

**Client Sample ID: GP-2-N-7.5-8'**

**Lab Sample ID: 720-70419-13**

**Date Collected: 02/23/16 10:53**

**Matrix: Solid**

**Date Received: 02/23/16 17:40**

**Percent Solids: 82.5**

**Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	610		6.0		mg/Kg	☼	02/26/16 10:53	03/01/16 00:30	5
Motor Oil Range Organics [C24-C36]	1000		300		mg/Kg	☼	02/26/16 10:53	03/01/16 00:30	5
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
p-Terphenyl	0	DX	38 - 148				02/26/16 10:53	03/01/16 00:30	5

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	17.5		0.1		%			02/24/16 13:33	1



# Client Sample Results

Client: Geologica Inc  
Project/Site: Pin High

TestAmerica Job ID: 720-70419-1

**Client Sample ID: GP-2-S-3.5-4'**

**Lab Sample ID: 720-70419-15**

Date Collected: 02/23/16 11:25

Matrix: Solid

Date Received: 02/23/16 17:40

Percent Solids: 81.1

**Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	45		2.4		mg/Kg	☼	02/26/16 10:53	02/29/16 23:32	2
Motor Oil Range Organics [C24-C36]	230		120		mg/Kg	☼	02/26/16 10:53	02/29/16 23:32	2
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>p-Terphenyl</i>	50		38 - 148				02/26/16 10:53	02/29/16 23:32	2

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	18.9		0.1		%			02/24/16 13:33	1



# Client Sample Results

Client: Geologica Inc  
Project/Site: Pin High

TestAmerica Job ID: 720-70419-1

**Client Sample ID: GP-2-S-7.5-8'**

**Lab Sample ID: 720-70419-16**

Date Collected: 02/23/16 11:26

Matrix: Solid

Date Received: 02/23/16 17:40

Percent Solids: 85.9

## Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	310		29		mg/Kg	☼	02/26/16 10:53	03/01/16 00:01	10
Motor Oil Range Organics [C24-C36]	1900		1400		mg/Kg	☼	02/26/16 10:53	03/01/16 00:01	10
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
p-Terphenyl	0	DX	38 - 148				02/26/16 10:53	03/01/16 00:01	10

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	14.1		0.1		%			02/24/16 13:33	1

# Client Sample Results

Client: Geologica Inc  
Project/Site: Pin High

TestAmerica Job ID: 720-70419-1

**Client Sample ID: GP-2-W-3.5-4'**

**Lab Sample ID: 720-70419-18**

Date Collected: 02/23/16 11:57

Matrix: Solid

Date Received: 02/23/16 17:40

Percent Solids: 82.2

**Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	31		2.4		mg/Kg	☼	02/26/16 10:53	03/01/16 00:01	2
Motor Oil Range Organics [C24-C36]	140		120		mg/Kg	☼	02/26/16 10:53	03/01/16 00:01	2
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
p-Terphenyl	52		38 - 148				02/26/16 10:53	03/01/16 00:01	2

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	17.8		0.1		%			02/24/16 13:33	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

# Client Sample Results

Client: Geologica Inc  
Project/Site: Pin High

TestAmerica Job ID: 720-70419-1

**Client Sample ID: GP-2-W-7.5-8'**

**Lab Sample ID: 720-70419-19**

**Date Collected: 02/23/16 11:58**

**Matrix: Solid**

**Date Received: 02/23/16 17:40**

**Percent Solids: 87.9**

**Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	66		2.3		mg/Kg	☼	02/26/16 10:53	03/01/16 00:30	2
Motor Oil Range Organics [C24-C36]	250		110		mg/Kg	☼	02/26/16 10:53	03/01/16 00:30	2
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>p-Terphenyl</i>	51		38 - 148				02/26/16 10:53	03/01/16 00:30	2

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	12.1		0.1		%			02/24/16 13:33	1



# QC Sample Results

Client: Geologica Inc  
Project/Site: Pin High

TestAmerica Job ID: 720-70419-1

## Method: 8015B - Diesel Range Organics (DRO) (GC)

**Lab Sample ID: MB 720-197615/1-A**  
**Matrix: Water**  
**Analysis Batch: 197604**

**Client Sample ID: Method Blank**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 197615**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		50		ug/L		02/25/16 09:29	02/25/16 20:20	1
Motor Oil Range Organics [C24-C36]	ND		99		ug/L		02/25/16 09:29	02/25/16 20:20	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Capric Acid (Surr)	0		0 - 5	02/25/16 09:29	02/25/16 20:20	1
p-Terphenyl	94		31 - 150	02/25/16 09:29	02/25/16 20:20	1

**Lab Sample ID: LCS 720-197615/2-A**  
**Matrix: Water**  
**Analysis Batch: 197604**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 197615**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Diesel Range Organics [C10-C28]	2500	1490		ug/L		60	32 - 119

Surrogate	LCS %Recovery	LCS Qualifier	Limits
p-Terphenyl	83		31 - 150

**Lab Sample ID: LCSD 720-197615/3-A**  
**Matrix: Water**  
**Analysis Batch: 197604**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 197615**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	2500	1200		ug/L		48	32 - 119	22	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
p-Terphenyl	90		31 - 150

**Lab Sample ID: MB 720-197697/1-A**  
**Matrix: Solid**  
**Analysis Batch: 197773**

**Client Sample ID: Method Blank**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 197697**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		1.0		mg/Kg		02/26/16 10:53	03/01/16 02:56	1
Motor Oil Range Organics [C24-C36]	ND		50		mg/Kg		02/26/16 10:53	03/01/16 02:56	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Capric Acid (Surr)	0.006		0 - 1	02/26/16 10:53	03/01/16 02:56	1
p-Terphenyl	96		38 - 148	02/26/16 10:53	03/01/16 02:56	1

**Lab Sample ID: LCS 720-197697/2-A**  
**Matrix: Solid**  
**Analysis Batch: 197773**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 197697**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Diesel Range Organics [C10-C28]	83.3	49.6		mg/Kg		60	36 - 112

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# QC Sample Results

Client: Geologica Inc  
Project/Site: Pin High

TestAmerica Job ID: 720-70419-1

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
<i>p</i> -Terphenyl	97		38 - 148

**Lab Sample ID: 720-70419-9 MS**  
**Matrix: Solid**  
**Analysis Batch: 197773**

**Client Sample ID: GP-2-E-3.5-4'**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 197697**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics [C10-C28]	4.8		94.3	62.6		mg/Kg	☼	61	50 - 150

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
<i>p</i> -Terphenyl	79		38 - 148

**Lab Sample ID: 720-70419-9 MSD**  
**Matrix: Solid**  
**Analysis Batch: 197773**

**Client Sample ID: GP-2-E-3.5-4'**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 197697**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	4.8		94.9	67.0		mg/Kg	☼	66	50 - 150	7	30

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
<i>p</i> -Terphenyl	83		38 - 148

## Method: Moisture - Percent Moisture

**Lab Sample ID: 720-70419-6 DU**  
**Matrix: Solid**  
**Analysis Batch: 197550**

**Client Sample ID: GP-2-E2-3.5-4'**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	15.6		14.9		%		5	20



# QC Association Summary

Client: Geologica Inc  
Project/Site: Pin High

TestAmerica Job ID: 720-70419-1

## GC Semi VOA

### Analysis Batch: 197604

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 720-197615/2-A	Lab Control Sample	Silica Gel Cleanup	Water	8015B	197615
LCSD 720-197615/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Water	8015B	197615
MB 720-197615/1-A	Method Blank	Silica Gel Cleanup	Water	8015B	197615

### Analysis Batch: 197605

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-70419-1	GP-2-N	Silica Gel Cleanup	Water	8015B	197615
720-70419-2	GP-2-E	Silica Gel Cleanup	Water	8015B	197615
720-70419-3	GP-2-E2	Silica Gel Cleanup	Water	8015B	197615
720-70419-4	GP-2-S	Silica Gel Cleanup	Water	8015B	197615
720-70419-5	GP-2-W	Silica Gel Cleanup	Water	8015B	197615

### Prep Batch: 197615

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-70419-1	GP-2-N	Silica Gel Cleanup	Water	3510C SGC	
720-70419-2	GP-2-E	Silica Gel Cleanup	Water	3510C SGC	
720-70419-3	GP-2-E2	Silica Gel Cleanup	Water	3510C SGC	
720-70419-4	GP-2-S	Silica Gel Cleanup	Water	3510C SGC	
720-70419-5	GP-2-W	Silica Gel Cleanup	Water	3510C SGC	
LCS 720-197615/2-A	Lab Control Sample	Silica Gel Cleanup	Water	3510C SGC	
LCSD 720-197615/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Water	3510C SGC	
MB 720-197615/1-A	Method Blank	Silica Gel Cleanup	Water	3510C SGC	

### Prep Batch: 197697

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-70419-6	GP-2-E2-3.5-4'	Silica Gel Cleanup	Solid	3546	
720-70419-7	GP-2-E2-7.5-8'	Silica Gel Cleanup	Solid	3546	
720-70419-9	GP-2-E-3.5-4'	Silica Gel Cleanup	Solid	3546	
720-70419-9 MS	GP-2-E-3.5-4'	Silica Gel Cleanup	Solid	3546	
720-70419-9 MSD	GP-2-E-3.5-4'	Silica Gel Cleanup	Solid	3546	
720-70419-10	GP-2-E-7.5-8'	Silica Gel Cleanup	Solid	3546	
720-70419-12	GP-2-N-3.5-4'	Silica Gel Cleanup	Solid	3546	
720-70419-13	GP-2-N-7.5-8'	Silica Gel Cleanup	Solid	3546	
720-70419-15	GP-2-S-3.5-4'	Silica Gel Cleanup	Solid	3546	
720-70419-16	GP-2-S-7.5-8'	Silica Gel Cleanup	Solid	3546	
720-70419-18	GP-2-W-3.5-4'	Silica Gel Cleanup	Solid	3546	
720-70419-19	GP-2-W-7.5-8'	Silica Gel Cleanup	Solid	3546	
LCS 720-197697/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	3546	
MB 720-197697/1-A	Method Blank	Silica Gel Cleanup	Solid	3546	

### Analysis Batch: 197773

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-70419-6	GP-2-E2-3.5-4'	Silica Gel Cleanup	Solid	8015B	197697
720-70419-7	GP-2-E2-7.5-8'	Silica Gel Cleanup	Solid	8015B	197697
720-70419-9	GP-2-E-3.5-4'	Silica Gel Cleanup	Solid	8015B	197697
720-70419-9 MS	GP-2-E-3.5-4'	Silica Gel Cleanup	Solid	8015B	197697
720-70419-9 MSD	GP-2-E-3.5-4'	Silica Gel Cleanup	Solid	8015B	197697
720-70419-12	GP-2-N-3.5-4'	Silica Gel Cleanup	Solid	8015B	197697
720-70419-13	GP-2-N-7.5-8'	Silica Gel Cleanup	Solid	8015B	197697
720-70419-15	GP-2-S-3.5-4'	Silica Gel Cleanup	Solid	8015B	197697
720-70419-16	GP-2-S-7.5-8'	Silica Gel Cleanup	Solid	8015B	197697

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# QC Association Summary

Client: Geologica Inc  
Project/Site: Pin High

TestAmerica Job ID: 720-70419-1

## GC Semi VOA (Continued)

### Analysis Batch: 197773 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 720-197697/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	8015B	197697
MB 720-197697/1-A	Method Blank	Silica Gel Cleanup	Solid	8015B	197697

### Analysis Batch: 197774

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-70419-18	GP-2-W-3.5-4'	Silica Gel Cleanup	Solid	8015B	197697
720-70419-19	GP-2-W-7.5-8'	Silica Gel Cleanup	Solid	8015B	197697

### Analysis Batch: 197859

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-70419-10	GP-2-E-7.5-8'	Silica Gel Cleanup	Solid	8015B	197697

## General Chemistry

### Analysis Batch: 197550

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-70419-6	GP-2-E2-3.5-4'	Total/NA	Solid	Moisture	
720-70419-6 DU	GP-2-E2-3.5-4'	Total/NA	Solid	Moisture	
720-70419-7	GP-2-E2-7.5-8'	Total/NA	Solid	Moisture	
720-70419-9	GP-2-E-3.5-4'	Total/NA	Solid	Moisture	
720-70419-10	GP-2-E-7.5-8'	Total/NA	Solid	Moisture	
720-70419-12	GP-2-N-3.5-4'	Total/NA	Solid	Moisture	
720-70419-13	GP-2-N-7.5-8'	Total/NA	Solid	Moisture	
720-70419-15	GP-2-S-3.5-4'	Total/NA	Solid	Moisture	
720-70419-16	GP-2-S-7.5-8'	Total/NA	Solid	Moisture	
720-70419-18	GP-2-W-3.5-4'	Total/NA	Solid	Moisture	
720-70419-19	GP-2-W-7.5-8'	Total/NA	Solid	Moisture	

# Lab Chronicle

Client: Geologica Inc  
Project/Site: Pin High

TestAmerica Job ID: 720-70419-1

## Client Sample ID: GP-2-N

Date Collected: 02/23/16 13:20

Date Received: 02/23/16 17:40

Lab Sample ID: 720-70419-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3510C SGC			197615	02/25/16 09:29	NDU	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	197605	02/25/16 19:51	JXL	TAL PLS

## Client Sample ID: GP-2-E

Date Collected: 02/23/16 13:10

Date Received: 02/23/16 17:40

Lab Sample ID: 720-70419-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3510C SGC			197615	02/25/16 09:29	NDU	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	197605	02/25/16 18:52	JXL	TAL PLS

## Client Sample ID: GP-2-E2

Date Collected: 02/23/16 13:00

Date Received: 02/23/16 17:40

Lab Sample ID: 720-70419-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3510C SGC			197615	02/25/16 09:29	NDU	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	197605	02/25/16 17:53	JXL	TAL PLS

## Client Sample ID: GP-2-S

Date Collected: 02/23/16 14:32

Date Received: 02/23/16 17:40

Lab Sample ID: 720-70419-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3510C SGC			197615	02/25/16 09:29	NDU	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	197605	02/25/16 19:21	JXL	TAL PLS

## Client Sample ID: GP-2-W

Date Collected: 02/23/16 14:05

Date Received: 02/23/16 17:40

Lab Sample ID: 720-70419-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3510C SGC			197615	02/25/16 09:29	NDU	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	197605	02/25/16 18:23	JXL	TAL PLS

## Client Sample ID: GP-2-E2-3.5-4'

Date Collected: 02/23/16 09:44

Date Received: 02/23/16 17:40

Lab Sample ID: 720-70419-6

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	197550	02/24/16 13:33	NVP	TAL PLS

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# Lab Chronicle

Client: Geologica Inc  
Project/Site: Pin High

TestAmerica Job ID: 720-70419-1

**Client Sample ID: GP-2-E2-3.5-4'**

**Lab Sample ID: 720-70419-6**

Date Collected: 02/23/16 09:44

Matrix: Solid

Date Received: 02/23/16 17:40

Percent Solids: 84.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			197697	02/26/16 10:53	BSY	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	197773	02/29/16 22:33	JXL	TAL PLS

**Client Sample ID: GP-2-E2-7.5-8'**

**Lab Sample ID: 720-70419-7**

Date Collected: 02/23/16 09:45

Matrix: Solid

Date Received: 02/23/16 17:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	197550	02/24/16 13:33	NVP	TAL PLS

**Client Sample ID: GP-2-E2-7.5-8'**

**Lab Sample ID: 720-70419-7**

Date Collected: 02/23/16 09:45

Matrix: Solid

Date Received: 02/23/16 17:40

Percent Solids: 90.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			197697	02/26/16 10:53	BSY	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	197773	02/29/16 23:02	JXL	TAL PLS

**Client Sample ID: GP-2-E-3.5-4'**

**Lab Sample ID: 720-70419-9**

Date Collected: 02/23/16 10:24

Matrix: Solid

Date Received: 02/23/16 17:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	197550	02/24/16 13:33	NVP	TAL PLS

**Client Sample ID: GP-2-E-3.5-4'**

**Lab Sample ID: 720-70419-9**

Date Collected: 02/23/16 10:24

Matrix: Solid

Date Received: 02/23/16 17:40

Percent Solids: 87.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			197697	02/26/16 10:53	BSY	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	197773	02/29/16 22:04	JXL	TAL PLS

**Client Sample ID: GP-2-E-7.5-8'**

**Lab Sample ID: 720-70419-10**

Date Collected: 02/23/16 10:25

Matrix: Solid

Date Received: 02/23/16 17:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	197550	02/24/16 13:33	NVP	TAL PLS

TestAmerica Pleasanton

# Lab Chronicle

Client: Geologica Inc  
Project/Site: Pin High

TestAmerica Job ID: 720-70419-1

**Client Sample ID: GP-2-E-7.5-8'**

**Lab Sample ID: 720-70419-10**

Date Collected: 02/23/16 10:25

Matrix: Solid

Date Received: 02/23/16 17:40

Percent Solids: 86.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			197697	02/26/16 10:53	BSY	TAL PLS
Silica Gel Cleanup	Analysis	8015B		10	197859	03/01/16 12:57	JXL	TAL PLS

**Client Sample ID: GP-2-N-3.5-4'**

**Lab Sample ID: 720-70419-12**

Date Collected: 02/23/16 10:52

Matrix: Solid

Date Received: 02/23/16 17:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	197550	02/24/16 13:33	NVP	TAL PLS

**Client Sample ID: GP-2-N-3.5-4'**

**Lab Sample ID: 720-70419-12**

Date Collected: 02/23/16 10:52

Matrix: Solid

Date Received: 02/23/16 17:40

Percent Solids: 90.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			197697	02/26/16 10:53	BSY	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	197773	02/29/16 21:34	JXL	TAL PLS

**Client Sample ID: GP-2-N-7.5-8'**

**Lab Sample ID: 720-70419-13**

Date Collected: 02/23/16 10:53

Matrix: Solid

Date Received: 02/23/16 17:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	197550	02/24/16 13:33	NVP	TAL PLS

**Client Sample ID: GP-2-N-7.5-8'**

**Lab Sample ID: 720-70419-13**

Date Collected: 02/23/16 10:53

Matrix: Solid

Date Received: 02/23/16 17:40

Percent Solids: 82.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			197697	02/26/16 10:53	BSY	TAL PLS
Silica Gel Cleanup	Analysis	8015B		5	197773	03/01/16 00:30	JXL	TAL PLS

**Client Sample ID: GP-2-S-3.5-4'**

**Lab Sample ID: 720-70419-15**

Date Collected: 02/23/16 11:25

Matrix: Solid

Date Received: 02/23/16 17:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	197550	02/24/16 13:33	NVP	TAL PLS

TestAmerica Pleasanton

# Lab Chronicle

Client: Geologica Inc  
Project/Site: Pin High

TestAmerica Job ID: 720-70419-1

**Client Sample ID: GP-2-S-3.5-4'**

**Lab Sample ID: 720-70419-15**

Date Collected: 02/23/16 11:25

Matrix: Solid

Date Received: 02/23/16 17:40

Percent Solids: 81.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			197697	02/26/16 10:53	BSY	TAL PLS
Silica Gel Cleanup	Analysis	8015B		2	197773	02/29/16 23:32	JXL	TAL PLS

**Client Sample ID: GP-2-S-7.5-8'**

**Lab Sample ID: 720-70419-16**

Date Collected: 02/23/16 11:26

Matrix: Solid

Date Received: 02/23/16 17:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	197550	02/24/16 13:33	NVP	TAL PLS

**Client Sample ID: GP-2-S-7.5-8'**

**Lab Sample ID: 720-70419-16**

Date Collected: 02/23/16 11:26

Matrix: Solid

Date Received: 02/23/16 17:40

Percent Solids: 85.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			197697	02/26/16 10:53	BSY	TAL PLS
Silica Gel Cleanup	Analysis	8015B		10	197773	03/01/16 00:01	JXL	TAL PLS

**Client Sample ID: GP-2-W-3.5-4'**

**Lab Sample ID: 720-70419-18**

Date Collected: 02/23/16 11:57

Matrix: Solid

Date Received: 02/23/16 17:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	197550	02/24/16 13:33	NVP	TAL PLS

**Client Sample ID: GP-2-W-3.5-4'**

**Lab Sample ID: 720-70419-18**

Date Collected: 02/23/16 11:57

Matrix: Solid

Date Received: 02/23/16 17:40

Percent Solids: 82.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			197697	02/26/16 10:53	BSY	TAL PLS
Silica Gel Cleanup	Analysis	8015B		2	197774	03/01/16 00:01	JXL	TAL PLS

**Client Sample ID: GP-2-W-7.5-8'**

**Lab Sample ID: 720-70419-19**

Date Collected: 02/23/16 11:58

Matrix: Solid

Date Received: 02/23/16 17:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	197550	02/24/16 13:33	NVP	TAL PLS

TestAmerica Pleasanton

# Lab Chronicle

Client: Geologica Inc  
Project/Site: Pin High

TestAmerica Job ID: 720-70419-1

**Client Sample ID: GP-2-W-7.5-8'**

**Lab Sample ID: 720-70419-19**

**Date Collected: 02/23/16 11:58**

**Matrix: Solid**

**Date Received: 02/23/16 17:40**

**Percent Solids: 87.9**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			197697	02/26/16 10:53	BSY	TAL PLS
Silica Gel Cleanup	Analysis	8015B		2	197774	03/01/16 00:30	JXL	TAL PLS

**Laboratory References:**

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14



# Certification Summary

Client: Geologica Inc  
Project/Site: Pin High

TestAmerica Job ID: 720-70419-1

## Laboratory: TestAmerica Pleasanton

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

Authority	Program	EPA Region	Certification ID	Expiration Date
California	State Program	9	2496	01-31-17

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

Analysis Method	Prep Method	Matrix	Analyte
Moisture		Solid	Percent Moisture

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

# Method Summary

Client: Geologica Inc  
Project/Site: Pin High

TestAmerica Job ID: 720-70419-1

Method	Method Description	Protocol	Laboratory
8015B	Diesel Range Organics (DRO) (GC)	SW846	TAL PLS
Moisture	Percent Moisture	EPA	TAL PLS

**Protocol References:**

EPA = US Environmental Protection Agency

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

**Laboratory References:**

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919



# Sample Summary

Client: Geologica Inc  
Project/Site: Pin High

TestAmerica Job ID: 720-70419-1

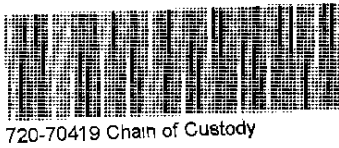
Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-70419-1	GP-2-N	Water	02/23/16 13:20	02/23/16 17:40
720-70419-2	GP-2-E	Water	02/23/16 13:10	02/23/16 17:40
720-70419-3	GP-2-E2	Water	02/23/16 13:00	02/23/16 17:40
720-70419-4	GP-2-S	Water	02/23/16 14:32	02/23/16 17:40
720-70419-5	GP-2-W	Water	02/23/16 14:05	02/23/16 17:40
720-70419-6	GP-2-E2-3.5-4'	Solid	02/23/16 09:44	02/23/16 17:40
720-70419-7	GP-2-E2-7.5-8'	Solid	02/23/16 09:45	02/23/16 17:40
720-70419-9	GP-2-E-3.5-4'	Solid	02/23/16 10:24	02/23/16 17:40
720-70419-10	GP-2-E-7.5-8'	Solid	02/23/16 10:25	02/23/16 17:40
720-70419-12	GP-2-N-3.5-4'	Solid	02/23/16 10:52	02/23/16 17:40
720-70419-13	GP-2-N-7.5-8'	Solid	02/23/16 10:53	02/23/16 17:40
720-70419-15	GP-2-S-3.5-4'	Solid	02/23/16 11:25	02/23/16 17:40
720-70419-16	GP-2-S-7.5-8'	Solid	02/23/16 11:26	02/23/16 17:40
720-70419-18	GP-2-W-3.5-4'	Solid	02/23/16 11:57	02/23/16 17:40
720-70419-19	GP-2-W-7.5-8'	Solid	02/23/16 11:58	02/23/16 17:40

**Report To** **Analysis Request**

Attn: Brian Aubry  
 Company: Geologica, Inc  
 Address: Oakland, CA  
 Email:  
 Bill To: Sampled By: gr  
 Attn: Phone:

Sample ID	Date	Time	Mat /ik	Preserv
GP-2-N	2/23/16	1320	W	
GP-2-E		1310		
GP-2-E2		1300		
GP-2-S		1432		
GP-2-W	✓	1405	✓	

<input type="checkbox"/> Volatile Organics GC/MS (VOCs) <input type="checkbox"/> EPA 8260B	<input type="checkbox"/> HVOCs by EPA 8260B	EPA 8260B: <input type="checkbox"/> Gas <input type="checkbox"/> BTEX <input type="checkbox"/> 5 Organics <input type="checkbox"/> DCA, EDB <input type="checkbox"/> Ethene	TEPH EPA 8015B <input checked="" type="checkbox"/> Silica Gel <input checked="" type="checkbox"/> Diesel <input type="checkbox"/> Motor Oil <input type="checkbox"/> Other	SemiVolatile Organics GC/MS <input type="checkbox"/> EPA 8270C	PNA/PAH's by <input type="checkbox"/> 8270C <input type="checkbox"/> 8270C SIM	Oil and Grease (EPA 1664/9071) <input type="checkbox"/> Petroleum <input type="checkbox"/> Total	Pesticides <input type="checkbox"/> EPA 8081 PCBs <input type="checkbox"/> EPA 8082	CAM17 Metals (EPA 6010/7470/7471)	Metals: <input type="checkbox"/> 60105 <input type="checkbox"/> 200.7 <input type="checkbox"/> Lead <input type="checkbox"/> LUFT <input type="checkbox"/> RORA <input type="checkbox"/> Other	Metals: <input type="checkbox"/> 6020 <input type="checkbox"/> 200.8 (ICP-MS):	<input type="checkbox"/> WET (STLC) <input type="checkbox"/> TCLP <input type="checkbox"/> WET (D) <input type="checkbox"/> TCLP	Hex. Chrom by <input type="checkbox"/> EPA 7196 <input type="checkbox"/> or EPA 7189	pH: <input type="checkbox"/> 9040 <input type="checkbox"/> SM4500	<input type="checkbox"/> Spec. Cond. <input type="checkbox"/> Alkalinity <input type="checkbox"/> TSS <input type="checkbox"/> SS <input type="checkbox"/> TDS	Anions: <input type="checkbox"/> Cl <input type="checkbox"/> SO <sub>4</sub> <input type="checkbox"/> NO <sub>3</sub> <input type="checkbox"/> F <input type="checkbox"/> Br <input type="checkbox"/> NO <sub>2</sub> <input type="checkbox"/> PO <sub>4</sub>	<input type="checkbox"/> Perchlorate by EPA 314.0	COD: <input type="checkbox"/> EPA 410.4 <input type="checkbox"/> SM5220D <input type="checkbox"/> Turbidity	Number of Containers
			X															2



**Project Info**  
 Project Name/ #: Pin High  
 PO#:   
 Credit Card Y/N:   
 If yes, please call with payment information ASAP

**Sample Receipt**  
 # of Containers:   
 Head Space:   
 Temp: 2.9°C

1) Relinquished by:  
Greg Romero 1546  
 Signature Time  
Greg Romero 2/23/16  
 Printed Name Date  
Geologica  
 Company

2) Relinquished by:  
Alejandro OLVERA  
 Signature Time  
A. Olvera 1625  
 Printed Name Date  
Ultra Ex 2/23/16  
 Company

3) Relinquished by:  
Ron Mosa 1740  
 Signature Time  
Ron Mosa 2/23/16  
 Printed Name Date  
RON MOSER  
 Company Ultra Ex

TAT: 10 Day  5 Day  4 Day  3 Day  2 Day  1 Day  Other:

1) Received by:  
Alejandro OLVERA 1546  
 Signature Time  
A. Olvera 2/23/16  
 Printed Name Date  
Ultra Ex  
 Company

2) Received by:  
Ron Mosa 1625  
 Signature Time  
RON MOSER 1625  
 Printed Name Date  
Ultra Ex  
 Company

3) Received by:  
Ron Mosa 1740  
 Signature Time  
T Bullock 7/23/16  
 Printed Name Date  
TA  
 Company

Report:  Routine  Level 3  Level 4  EDD  EDF  
 Special Instructions / Comments:  Global ID \_\_\_\_\_  
 See Terms and Conditions on reverse

**Report To** **Analysis Request**

Attn: \_\_\_\_\_  
 Company: Same As Pg 1  
 Address: \_\_\_\_\_  
 Email: \_\_\_\_\_  
 Bill To: \_\_\_\_\_ Sampled By: \_\_\_\_\_  
 Attn: \_\_\_\_\_ Phone: \_\_\_\_\_

Sample ID	Date	Time	Mix Yrk	Preserv	Volatile Organics GC/MS (VOCs) <input type="checkbox"/> EPA 8260B	HVOCs by <input type="checkbox"/> EPA 8250B	EPA 8260B: <input type="checkbox"/> Gas <input type="checkbox"/> BTEX <input type="checkbox"/> 5 Organics <input type="checkbox"/> DCA, EDB <input type="checkbox"/> Ethant	TEPH EPA 8013B <input checked="" type="checkbox"/> Sulfex Gel <input checked="" type="checkbox"/> Diesel <input checked="" type="checkbox"/> Motor-Oil <input type="checkbox"/> Other	SemiVolatile Organics GC/MS <input type="checkbox"/> EPA 8270C	PNA/PAH's by <input type="checkbox"/> 8270C <input type="checkbox"/> 8270C SIM	Oil and Grease (EPA 1664/9071) <input type="checkbox"/> Total	Pesticides <input type="checkbox"/> EPA 8081 PCBs <input type="checkbox"/> EPA 8082	CAM17 Metals (EPA 60107/707471)	Metals: <input type="checkbox"/> 60105 <input type="checkbox"/> 200.7 <input type="checkbox"/> Lead <input type="checkbox"/> LUFT <input type="checkbox"/> CRCA <input type="checkbox"/> Other	Metals: <input type="checkbox"/> 6020 <input type="checkbox"/> 200.8 (ICP-MS)	WET (STLC) <input type="checkbox"/> WET (DI) <input type="checkbox"/> TCLP	Hex. Chrom by <input type="checkbox"/> EPA 7196 <input type="checkbox"/> or EPA 7199	pH <input type="checkbox"/> 9040 <input type="checkbox"/> SIM4500	Spec. Cond. <input type="checkbox"/> Alkalinity <input type="checkbox"/> TSS <input type="checkbox"/> SS <input type="checkbox"/> TDS	Anions: <input type="checkbox"/> Cl <input type="checkbox"/> SO <sub>4</sub> <input type="checkbox"/> NO <sub>3</sub> <input type="checkbox"/> F <input type="checkbox"/> Br <input type="checkbox"/> NO <sub>2</sub> <input type="checkbox"/> PO <sub>4</sub>	<input type="checkbox"/> Perochlorate by EPA 814.0 COD <input type="checkbox"/> EPA 410.4 <input type="checkbox"/> SM520D <input type="checkbox"/> Turbidity	Number of Containers	
GP-2-E2-3.5-4'	2/23/16	944	S					X															
GP-2-E2-7.5-8'		945						X															
GP-2-E2-11.5-12'		946																					X
GP-2-E-3.5-4'		1024						X															
GP-2-E-7.5-8'		1025						X															
GP-2-E-11.5-12'		1026																					X
GP-2-N-3.5-4'		1052						X															
GP-2-N-7.5-8'		1053						X															
GP-2-N-11.5-12'	✓	1054	✓																				X

**Project Info**  
 Project Name/ #: Pm High  
 PO#: \_\_\_\_\_

**Sample Receipt**  
 # of Containers: \_\_\_\_\_  
 Head Space: \_\_\_\_\_  
 Temp: \_\_\_\_\_

Credit Card Y/N: \_\_\_\_\_  
 If yes, please call with payment information ASAP

T A T 10 Day 5 Day 4 Day 3 Day 2 Day 1 Day Other: \_\_\_\_\_

Report:  Routine  Level 3  Level 4  EDD  EDF  
 Special Instructions / Comments:  Global ID \_\_\_\_\_  
\* dry weight  
 See Terms and Conditions on Reverse

1) Relinquished by:  
Greg Romero 1546  
 Signature Time  
Greg Romero 2/23/16  
 Printed Name Date  
Geologica  
 Company

2) Relinquished by:  
Alejandro Olvera  
 Signature Time  
A. Olvera 1625  
 Printed Name Date  
Ultra Ex 2/23/16  
 Company

3) Relinquished by:  
Ron Moser 1740  
 Signature Time  
Ron Moser 02/23/16  
 Printed Name Date  
Ultra Ex  
 Company

1) Received by:  
Alejandro Olvera  
 Signature Time  
Alejandro Olvera 1546  
 Printed Name Date  
Ultra 2/23/16  
 Company

2) Received by:  
Ron Moser 1625  
 Signature Time  
R 02/23/16  
 Printed Name Date  
Ron Moser  
 Company  
Ultra Ex

3) Received by:  
Ron Moser 1740  
 Signature Time  
R 2/23/16  
 Printed Name Date  
R  
 Company

**Report To** **Analysis Request**

Attn:		Volatile Organics GC/MS (VOCs) <input type="checkbox"/> EPA 8260B  HVOCs by <input type="checkbox"/> EPA 8260B  EPA 8260B: <input type="checkbox"/> Gas <input type="checkbox"/> BTEX <input type="checkbox"/> 5 Oxygenates <input type="checkbox"/> OCA, EDB <input type="checkbox"/> Ethanol  TEPH EPA 8015B <input checked="" type="checkbox"/> Silica Gel <input checked="" type="checkbox"/> Diesel <input type="checkbox"/> Motor Oil <input type="checkbox"/> Other  SemiVolatile Organics GC/MS <input type="checkbox"/> EPA 8270C  PNAPAH's by <input type="checkbox"/> 8270C <input type="checkbox"/> SIM  Oil and Grease (EPA 1664/9071) <input type="checkbox"/> Total  Pesticides <input type="checkbox"/> EPA 8081 <input type="checkbox"/> PCBs <input type="checkbox"/> EPA 8082  CAM17 Metals (EPA 60107/4707/471)  Metals: <input type="checkbox"/> 6010B <input type="checkbox"/> 200.7 <input type="checkbox"/> Lead <input type="checkbox"/> LUFT <input type="checkbox"/> CRCA <input type="checkbox"/> Other:  Metals: <input type="checkbox"/> 6020 <input type="checkbox"/> 200.6 (ICP-MS):  <input type="checkbox"/> W.E.T (STLC) <input type="checkbox"/> TCLP <input type="checkbox"/> W.E.T (D) <input type="checkbox"/>  Hex. Chrom by <input type="checkbox"/> EPA 7196 <input type="checkbox"/> or EPA 7166  pH <input type="checkbox"/> 9040 <input type="checkbox"/> SM4500  Spec. Cond. <input type="checkbox"/> Alkalinity <input type="checkbox"/> TSS <input type="checkbox"/> SS <input type="checkbox"/> TDS  Anions: <input type="checkbox"/> Cl <input type="checkbox"/> SO <sub>4</sub> <input type="checkbox"/> NO <sub>3</sub> <input type="checkbox"/> F <input type="checkbox"/> Br <input type="checkbox"/> NO <sub>2</sub> <input type="checkbox"/> PO <sub>4</sub>  <input type="checkbox"/> Perchlorate by EPA 814.0  COD <input type="checkbox"/> EPA 410.4 <input type="checkbox"/> SMS200 <input type="checkbox"/> Turbidity
Company: <u>Same As pg 1</u>		
Address:		
Email:		
Bill To:	Sampled By:	
Attn:	Phone:	

Sample ID	Date	Time	Mat	Preserv	Number of Containers
GP-2-S-3.5-4'	2/23/16	1125	S	S	
GP-2-S-7.5-8'		1126			
GP-2-S-11.5-12'		1128			X
GP-2-W-3.5-4'		1157			
GP-2-W-7.5-8'		1158			
GP-2-W-11.5-12'		1159			X

<b>Project Info</b> Project Name/ #: <u>Pin High</u> PO#: _____		<b>Sample Receipt</b> # of Containers: _____ Head Space: _____ Temp: _____		1) Relinquished by: <u>[Signature]</u> 1546 Signature Time <u>Grex Romero</u> 2/23/16 Printed Name Date <u>Geologica</u> Company		2) Relinquished by: <u>Alexandro Olvera</u> Signature Time <u>Alexandro Olvera</u> 1625 Printed Name Date <u>UltraEx</u> 2/23/16 Company		3) Relinquished by: <u>Ron Moser</u> 1740 Signature Time <u>Ron Moser</u> 02/23/16 Printed Name Date <u>RON MOSER</u> 02/23/16 Company <u>UltraEx</u>	
Credit Card Y/N: _____ If yes, please call with payment information ASAP		T 10 Day (15 Day) 4 Day 3 Day 2 Day 1 Day Other: _____ Report: <input type="checkbox"/> Routine <input type="checkbox"/> Level 3 <input type="checkbox"/> Level 4 <input type="checkbox"/> EDD <input type="checkbox"/> EDF Special Instructions / Comments: <input type="checkbox"/> Global ID _____ <u>* dry weight</u> See Terms and Conditions on reverse		1) Received by: <u>Alexandro Olvera</u> 1546 Signature Time <u>A. Olvera</u> 2/23/16 Printed Name Date <u>UltraEx</u> Company		2) Received by: <u>Ron Moser</u> Signature Time <u>Ron Moser</u> 1625 Printed Name Date <u>RON MOSER</u> 02/23/16 Company <u>UltraEx</u>		3) Received by: <u>[Signature]</u> 1740 Signature Time <u>Bullock</u> 2/23/16 Printed Name Date <u>TA</u> Company	



# Login Sample Receipt Checklist

Client: Geologica Inc

Job Number: 720-70419-1

**Login Number: 70419**  
**List Number: 1**  
**Creator: Arauz, Dennis**

**List Source: TestAmerica Pleasanton**

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





# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.  
TestAmerica Pleasanton  
1220 Quarry Lane  
Pleasanton, CA 94566  
Tel: (925)484-1919

TestAmerica Job ID: 720-69933-1  
Client Project/Site: Pin High

For:  
Geologica Inc  
220 4th Street, suite 201  
Oakland, California 94607

Attn: Brian Aubry



Authorized for release by:  
2/1/2016 5:24:48 PM

Micah Smith, Project Manager II  
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### LINKS

Review your project  
results through  
**TotalAccess**

Have a Question?



Visit us at:  
[www.testamericainc.com](http://www.testamericainc.com)

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

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

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14



# Table of Contents

Cover Page . . . . .	1
Table of Contents . . . . .	2
Definitions/Glossary . . . . .	3
Case Narrative . . . . .	4
Detection Summary . . . . .	7
Client Sample Results . . . . .	17
QC Sample Results . . . . .	108
QC Association Summary . . . . .	177
Lab Chronicle . . . . .	188
Certification Summary . . . . .	201
Method Summary . . . . .	202
Sample Summary . . . . .	203
Chain of Custody . . . . .	204
Receipt Checklists . . . . .	210

# Definitions/Glossary

Client: Geologica Inc  
Project/Site: Pin High

TestAmerica Job ID: 720-69933-1

## Qualifiers

### GC/MS VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
*	ISTD response or retention time outside acceptable limits
F2	MS/MSD RPD exceeds control limits
*	LCS or LCSD is outside acceptance limits.

### GC Semi VOA

Qualifier	Qualifier Description
X	Surrogate is outside control limits
D	Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution may be flagged with a D.
F1	MS and/or MSD Recovery is outside acceptance limits.
p	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

### Metals

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

## Glossary

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

# Case Narrative

Client: Geologica Inc  
Project/Site: Pin High

TestAmerica Job ID: 720-69933-1

**Job ID: 720-69933-1**

**Laboratory: TestAmerica Pleasanton**

## Narrative

### Job Narrative 720-69933-1

#### Comments

No additional comments.

#### Receipt

The samples were received on 1/22/2016 5:10 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 2.6° C and 2.8° C.

#### GC/MS VOA

Method(s) 8260B: The laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for analytical batch 720-196192 recovered outside control limits for the following analytes: Dichlorodifluoromethane and Trichlorofluoromethane. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method(s) 8260B: The following samples were collected in properly preserved vials for analysis of volatile organic compounds (VOCs). However, the pH was outside the required criteria when verified by the laboratory, and corrective action was not possible: GP-1 (720-69933-1), GP-2 (720-69933-2), GP-3 (720-69933-3) and GP-6 (720-69933-4). Samples were analyzed within 7 days of collection as recommended.

Method(s) 8260B: The following sample was collected in properly preserved vials for analysis of volatile organic compounds (VOCs). However, the pH was outside the required criteria when verified by the laboratory, and corrective action was not possible: GP-10 (720-69933-6). Sample was analyzed within 7 days of collection as recommended.

Method(s) 8260B: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for analytical batch 720-196293 recovered outside control limits for the following analytes: Dichlorodifluoromethane and Trichlorofluoromethane. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method(s) 8260B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 720-196202 and analytical batch 720-196326 were outside control limits for Vinyl acetate. Sample matrix interference are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

Method(s) 8260B: Internal standard (ISTD) response for the following samples was outside control limits: GP-4-3.5-4' (720-69933-19) and GP-5-4.5-5' (720-69933-23). The sample(s) was re-extracted and/or re-analyzed with concurring results, and the original set of data has been reported.

Method(s) 8260B: Internal standard (ISTD) response for the following sample was outside control limits: GP-5-7.5-8' (720-69933-24). The sample was re-extracted and/or re-analyzed with concurring results, and the second set of data have been reported.

Method(s) 8260B: Internal standard (ISTD) response for the following samples were outside control limits: GP-2-7.5-8' (720-69933-13) and GP-3-3.5-4' (720-69933-15). The samples were re-analyzed with concurring results, and the data from re-analysis has been reported.

Method(s) 8260B: Internal standard responses were outside of acceptance limits for the following samples: GP-8-3.5-4' (720-69933-35) and (720-69933-A-35-E MS); non-homogeneity are suspected.

Method(s) 8260B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 720-196295 and analytical batch 720-196408 were outside control limits. Sample matrix non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

The continuing calibration verification (CCV) associated with batch 720-196408 recovered above the upper control limit for Acetone. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: GP-1-3.5-4' (720-69933-8), GP-2-7.5-8' (720-69933-13), GP-3-3.5-4' (720-69933-15), GP-7-3.5-4' (720-69933-31) and GP-8-3.5-4' (720-69933-35).

# Case Narrative

Client: Geologica Inc  
Project/Site: Pin High

TestAmerica Job ID: 720-69933-1

## Job ID: 720-69933-1 (Continued)

### Laboratory: TestAmerica Pleasanton (Continued)

Method(s) 8260B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 720-196561 and analytical batch 720-196552 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits. 4-Methyl-2-pentanone (MIBK) and Vinyl acetate

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

### GC VOA

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

### GC Semi VOA

Method(s) 8015B: Capric acid Surrogate recovery for the following sample was outside control limits: GP-2-3.5-4' (720-69933-12). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method(s) 8015B: The following samples required a dilution due to the nature of the sample matrix: GP-2 (720-69933-2), GP-2-7.5-8' (720-69933-13), GP-3-3.5-4' (720-69933-15), GP-10-3.5-4' (720-69933-43), (720-69933-A-43-F MS) and (720-69933-A-43-G MSD). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method(s) 8015B: Due to the high concentration of C10-C28, the matrix spike / matrix spike duplicate (MS/MSD) for preparation batch 720-196404 and analytical batch 720-196414 could not be evaluated for accuracy and precision. The associated laboratory control sample (LCS) met acceptance criteria.

Method(s) 8015B: The following sample required a dilution due to the nature of the sample matrix: GP-1-7.5-8' (720-69933-9). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method(s) 8081A: The matrix spike duplicate (MSD) recoveries for 196366 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method(s) 8081A: Surrogate recovery for the following sample was outside control limits: GP-6-7.5-8' (720-69933-28). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method(s) 8081A: The %RPD between the primary and confirmation column exceeded 40% for 4,4'-DDT for the following samples: GP-6-7.5-8' (720-69933-28). The lower value(s) has been reported and qualified in accordance with the laboratory's SOP.

Method(s) 8081A: The %RPD between the primary and confirmation column exceeded 40% for Dieldrin for the following samples: GP-1-7.5-8' (720-69933-9). The lower value(s) has been reported and qualified in accordance with the laboratory's SOP.

Method(s) 8082: Surrogate recovery for the following sample was outside control limits: GP-6-7.5-8' (720-69933-28). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method(s) 8082: The following samples required a tetrabutylammonium sulfite (TBA) clean-up to reduce matrix interferences caused by sulfur: GP-1-3.5-4' (720-69933-8), GP-1-7.5-8' (720-69933-9), GP-6-3.5-4' (720-69933-27), GP-6-7.5-8' (720-69933-28), GP-8-3.5-4' (720-69933-35), GP-8-7.5-8' (720-69933-36), GP-10-3.5-4' (720-69933-43), GP-10-7.5-8' (720-69933-44), (LCS 720-196367/2-A), (MB 720-196367/1-A), (720-69933-A-9-H MS) and (720-69933-A-9-I MSD).

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

### Metals

Method(s) 3005A: The following samples requested dissolved metals and were not filtered in the field: GP-1 (720-69933-1), GP-2 (720-69933-2), GP-3 (720-69933-3), GP-6 (720-69933-4), GP-7 (720-69933-5), GP-10 (720-69933-6), (720-69933-F-1-A MS) and (720-69933-F-1-A MSD). These samples were filtered and preserved upon receipt to the laboratory; ref #: 196284

Method(s) 6010B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 720-196275 and

# Case Narrative

Client: Geologica Inc  
Project/Site: Pin High

TestAmerica Job ID: 720-69933-1

## Job ID: 720-69933-1 (Continued)

### Laboratory: TestAmerica Pleasanton (Continued)

analytical batch 720-196432 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

Method(s) 6010B: The serial dilution performed for the following sample associated with batch 720-196432 was outside control limits: (720-69933-A-8-D SD)

Method(s) 6010B: The following samples was diluted due to the abundance of non-target analytes: GP-1-3.5-4' (720-69933-8), GP-2-7.5-8' (720-69933-13), GP-3-3.5-4' (720-69933-15), GP-3-7.5-8' (720-69933-16), GP-5-4.5-5' (720-69933-23), GP-5-7.5-8' (720-69933-24), GP-6-7.5-8' (720-69933-28), GP-7-3.5-4' (720-69933-31), GP-7-7.5-8' (720-69933-32), GP-8-3.5-4' (720-69933-35), GP-8-7.5-8' (720-69933-36), GP-9-4.5-5' (720-69933-39), GP-9-7.5-8' (720-69933-40) and GP-10-7.5-8' (720-69933-44). Elevated reporting limits (RLs) are provided.

Method(s) 6010B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 720-196285 and analytical batch 720-196482 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

Method(s) 6010B: The serial dilution performed for the following sample associated with batch 720-196482 was outside control limits: (720-69933-A-47-C SD)

Method(s) 6010B: The following samples was diluted due to the abundance of non-target analytes: GP-11-3.5-4' (720-69933-47) and GP-11-7.5-8' (720-69933-48). Elevated reporting limits (RLs) are provided.

Method(s) 7470A: The following samples requested dissolved metals and were not filtered in the field: GP-1 (720-69933-1), GP-2 (720-69933-2), GP-3 (720-69933-3), GP-6 (720-69933-4), GP-7 (720-69933-5) and GP-10 (720-69933-6). These samples were filtered and preserved upon receipt to the laboratory; ref #: 196284

Method(s) 7471A: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 720-196312 and analytical batch 720-196405 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

### General Chemistry

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

### Organic Prep

Method(s) 3510C SGC: Because more than 1/2" of sediment was present in the sample bottle, the liquid fraction was transferred to a separatory funnel before adding surrogate and/or spike solutions. GP-2 (720-69933-2) and GP-7 (720-69933-5)

Method(s) 3510C SGC: EPA 8015B: A matrix spike/matrix spike duplicate was not included in batch 196382 because insufficient sample volume was available. GP-1 (720-69933-1), GP-2 (720-69933-2), GP-3 (720-69933-3), GP-6 (720-69933-4), GP-7 (720-69933-5) and GP-10 (720-69933-6)

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

# Detection Summary

Client: Geologica Inc  
Project/Site: Pin High

TestAmerica Job ID: 720-69933-1

## Client Sample ID: GP-1

## Lab Sample ID: 720-69933-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cobalt	0.0038		0.0020		mg/L	1		6010B	Dissolved
Molybdenum	0.049		0.010		mg/L	1		6010B	Dissolved
Nickel	0.010		0.010		mg/L	1		6010B	Dissolved
Mercury	0.00021		0.00020		mg/L	1		7470A	Dissolved

## Client Sample ID: GP-2

## Lab Sample ID: 720-69933-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	2.5		0.50		ug/L	1		8260B/CA_LUFT MS	Total/NA
1,1-Dichloroethene	18		0.50		ug/L	1		8260B/CA_LUFT MS	Total/NA
cis-1,2-Dichloroethene	0.62		0.50		ug/L	1		8260B/CA_LUFT MS	Total/NA
trans-1,2-Dichloroethene	1.1		0.50		ug/L	1		8260B/CA_LUFT MS	Total/NA
1,1,1-Trichloroethane	1.8		0.50		ug/L	1		8260B/CA_LUFT MS	Total/NA
1,1,2-Trichloro-1,2,2-trifluoroethane	1.6		0.50		ug/L	1		8260B/CA_LUFT MS	Total/NA
Vinyl chloride	0.99		0.50		ug/L	1		8260B/CA_LUFT MS	Total/NA
Diesel Range Organics [C10-C28]	1900		270		ug/L	5		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	10000		540		ug/L	5		8015B	Silica Gel Cleanup
Barium	0.081		0.050		mg/L	1		6010B	Dissolved
Cobalt	0.0081		0.0020		mg/L	1		6010B	Dissolved
Molybdenum	0.035		0.010		mg/L	1		6010B	Dissolved
Nickel	0.025		0.010		mg/L	1		6010B	Dissolved
Zinc	0.024		0.020		mg/L	1		6010B	Dissolved

## Client Sample ID: GP-3

## Lab Sample ID: 720-69933-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	6.5		0.50		ug/L	1		8260B/CA_LUFT MS	Total/NA
Motor Oil Range Organics [C24-C36]	170		100		ug/L	1		8015B	Silica Gel Cleanup
Barium	0.052		0.050		mg/L	1		6010B	Dissolved
Cobalt	0.010		0.0020		mg/L	1		6010B	Dissolved
Molybdenum	0.020		0.010		mg/L	1		6010B	Dissolved
Nickel	0.024		0.010		mg/L	1		6010B	Dissolved

## Client Sample ID: GP-6

## Lab Sample ID: 720-69933-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.73		0.50		ug/L	1		8260B/CA_LUFT MS	Total/NA
Diesel Range Organics [C10-C28]	84		50		ug/L	1		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	120		100		ug/L	1		8015B	Silica Gel Cleanup
Arsenic	0.023		0.010		mg/L	1		6010B	Dissolved

This Detection Summary does not include radiochemical test results.

TestAmerica Pleasanton



# Detection Summary

Client: Geologica Inc  
Project/Site: Pin High

TestAmerica Job ID: 720-69933-1

## Client Sample ID: GP-6 (Continued)

Lab Sample ID: 720-69933-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	1.3		0.050		mg/L	1		6010B	Dissolved
Cobalt	0.0033		0.0020		mg/L	1		6010B	Dissolved
Molybdenum	0.019		0.010		mg/L	1		6010B	Dissolved
Nickel	0.013		0.010		mg/L	1		6010B	Dissolved

## Client Sample ID: GP-7

Lab Sample ID: 720-69933-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methyl tert-butyl ether	1.6		0.50		ug/L	1		8260B/CA_LUFT MS	Total/NA
cis-1,2-Dichloroethene	0.94		0.50		ug/L	1		8260B/CA_LUFT MS	Total/NA
Trichloroethene	2.0		0.50		ug/L	1		8260B/CA_LUFT MS	Total/NA
Diesel Range Organics [C10-C28]	65		52		ug/L	1		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	350		100		ug/L	1		8015B	Silica Gel Cleanup
Barium	0.069		0.050		mg/L	1		6010B	Dissolved
Cobalt	0.0020		0.0020		mg/L	1		6010B	Dissolved
Molybdenum	0.072		0.010		mg/L	1		6010B	Dissolved
Mercury	0.00025		0.00020		mg/L	1		7470A	Dissolved

## Client Sample ID: GP-10

Lab Sample ID: 720-69933-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	150		51		ug/L	1		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	390		100		ug/L	1		8015B	Silica Gel Cleanup
Barium	0.097		0.050		mg/L	1		6010B	Dissolved
Cobalt	0.0093		0.0020		mg/L	1		6010B	Dissolved
Molybdenum	0.018		0.010		mg/L	1		6010B	Dissolved
Nickel	0.013		0.010		mg/L	1		6010B	Dissolved
Mercury	0.00023		0.00020		mg/L	1		7470A	Dissolved

## Client Sample ID: TRIP BLANK

Lab Sample ID: 720-69933-7

No Detections.

## Client Sample ID: GP-1-3.5-4'

Lab Sample ID: 720-69933-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	46		1.1		mg/Kg	1	☼	8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	160		57		mg/Kg	1	☼	8015B	Silica Gel Cleanup
4,4'-DDE	28		2.3		ug/Kg	1	☼	8081A	Total/NA
4,4'-DDD	4.6		2.3		ug/Kg	1	☼	8081A	Total/NA
Antimony	2.5	F1	1.9		mg/Kg	4	☼	6010B	Total/NA
Arsenic	8.7		3.8		mg/Kg	4	☼	6010B	Total/NA
Barium	160	F1 F2	1.9		mg/Kg	4	☼	6010B	Total/NA
Beryllium	0.54		0.38		mg/Kg	4	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Pleasanton

# Detection Summary

Client: Geologica Inc  
Project/Site: Pin High

TestAmerica Job ID: 720-69933-1

## Client Sample ID: GP-1-3.5-4' (Continued)

## Lab Sample ID: 720-69933-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	73	F1	1.9		mg/Kg	4	☼	6010B	Total/NA
Cobalt	17		0.75		mg/Kg	4	☼	6010B	Total/NA
Copper	36		5.7		mg/Kg	4	☼	6010B	Total/NA
Lead	14		1.9		mg/Kg	4	☼	6010B	Total/NA
Molybdenum	2.7		1.9		mg/Kg	4	☼	6010B	Total/NA
Nickel	94	F1	1.9		mg/Kg	4	☼	6010B	Total/NA
Thallium	2.1		1.9		mg/Kg	4	☼	6010B	Total/NA
Vanadium	41		1.9		mg/Kg	4	☼	6010B	Total/NA
Zinc	58		5.7		mg/Kg	4	☼	6010B	Total/NA
Mercury	0.63		0.010		mg/Kg	1	☼	7471A	Total/NA

## Client Sample ID: GP-1-7.5-8'

## Lab Sample ID: 720-69933-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	110		55		ug/Kg	1	☼	8260B	Total/NA
Diesel Range Organics [C10-C28]	390		12		mg/Kg	10	☼	8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	1500		580		mg/Kg	10	☼	8015B	Silica Gel Cleanup
Dieldrin	6.4	p	4.6		ug/Kg	2	☼	8081A	Total/NA
4,4'-DDE	57		4.6		ug/Kg	2	☼	8081A	Total/NA
4,4'-DDD	31		4.6		ug/Kg	2	☼	8081A	Total/NA
alpha-Chlordane	11	p	4.6		ug/Kg	2	☼	8081A	Total/NA
gamma-Chlordane	14		4.6		ug/Kg	2	☼	8081A	Total/NA
Arsenic	7.8		4.5		mg/Kg	4	☼	6010B	Total/NA
Barium	180		2.3		mg/Kg	4	☼	6010B	Total/NA
Beryllium	0.18		0.11		mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.15		0.14		mg/Kg	1	☼	6010B	Total/NA
Chromium	86		2.3		mg/Kg	4	☼	6010B	Total/NA
Cobalt	18		0.91		mg/Kg	4	☼	6010B	Total/NA
Copper	41		6.8		mg/Kg	4	☼	6010B	Total/NA
Lead	42		2.3		mg/Kg	4	☼	6010B	Total/NA
Nickel	120		2.3		mg/Kg	4	☼	6010B	Total/NA
Vanadium	61		2.3		mg/Kg	4	☼	6010B	Total/NA
Zinc	79		6.8		mg/Kg	4	☼	6010B	Total/NA
Mercury	0.30		0.011		mg/Kg	1	☼	7471A	Total/NA

## Client Sample ID: GP-2-3.5-4'

## Lab Sample ID: 720-69933-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	17		1.4		mg/Kg	1	☼	8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	120		68		mg/Kg	1	☼	8015B	Silica Gel Cleanup
Arsenic	5.7		4.9		mg/Kg	4	☼	6010B	Total/NA
Barium	220		2.4		mg/Kg	4	☼	6010B	Total/NA
Beryllium	0.36		0.12		mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.18		0.15		mg/Kg	1	☼	6010B	Total/NA
Chromium	60		2.4		mg/Kg	4	☼	6010B	Total/NA
Cobalt	12		0.98		mg/Kg	4	☼	6010B	Total/NA
Copper	29		7.3		mg/Kg	4	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Pleasanton

# Detection Summary

Client: Geologica Inc  
Project/Site: Pin High

TestAmerica Job ID: 720-69933-1

## Client Sample ID: GP-2-3.5-4' (Continued)

## Lab Sample ID: 720-69933-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	31		2.4		mg/Kg	4	☼	6010B	Total/NA
Nickel	82		2.4		mg/Kg	4	☼	6010B	Total/NA
Vanadium	36		2.4		mg/Kg	4	☼	6010B	Total/NA
Zinc	99		7.3		mg/Kg	4	☼	6010B	Total/NA
Mercury	0.21		0.012		mg/Kg	1	☼	7471A	Total/NA

## Client Sample ID: GP-2-7.5-8'

## Lab Sample ID: 720-69933-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	1400		26		mg/Kg	20	☼	8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	4800		1300		mg/Kg	20	☼	8015B	Silica Gel Cleanup
Arsenic	5.0		4.5		mg/Kg	4	☼	6010B	Total/NA
Barium	150		2.2		mg/Kg	4	☼	6010B	Total/NA
Chromium	280		2.2		mg/Kg	4	☼	6010B	Total/NA
Cobalt	48		0.90		mg/Kg	4	☼	6010B	Total/NA
Copper	27		6.7		mg/Kg	4	☼	6010B	Total/NA
Lead	15		2.2		mg/Kg	4	☼	6010B	Total/NA
Nickel	600		2.2		mg/Kg	4	☼	6010B	Total/NA
Vanadium	43		2.2		mg/Kg	4	☼	6010B	Total/NA
Zinc	46		6.7		mg/Kg	4	☼	6010B	Total/NA
Mercury	0.21		0.011		mg/Kg	1	☼	7471A	Total/NA

## Client Sample ID: GP-3-3.5-4'

## Lab Sample ID: 720-69933-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	290		11		mg/Kg	10	☼	8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	1200		550		mg/Kg	10	☼	8015B	Silica Gel Cleanup
Barium	140		1.9		mg/Kg	4	☼	6010B	Total/NA
Chromium	32		1.9		mg/Kg	4	☼	6010B	Total/NA
Cobalt	11		0.78		mg/Kg	4	☼	6010B	Total/NA
Copper	25		5.8		mg/Kg	4	☼	6010B	Total/NA
Lead	3.6		1.9		mg/Kg	4	☼	6010B	Total/NA
Nickel	32		1.9		mg/Kg	4	☼	6010B	Total/NA
Vanadium	50		1.9		mg/Kg	4	☼	6010B	Total/NA
Zinc	37		5.8		mg/Kg	4	☼	6010B	Total/NA
Mercury	0.055		0.011		mg/Kg	1	☼	7471A	Total/NA

## Client Sample ID: GP-3-7.5-8'

## Lab Sample ID: 720-69933-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	11		1.2		mg/Kg	1	☼	8015B	Silica Gel Cleanup
Barium	100		1.6		mg/Kg	4	☼	6010B	Total/NA
Chromium	83		1.6		mg/Kg	4	☼	6010B	Total/NA
Cobalt	16		0.65		mg/Kg	4	☼	6010B	Total/NA
Copper	63		4.9		mg/Kg	4	☼	6010B	Total/NA
Lead	5.9		1.6		mg/Kg	4	☼	6010B	Total/NA
Nickel	86		1.6		mg/Kg	4	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Pleasanton

# Detection Summary

Client: Geologica Inc  
Project/Site: Pin High

TestAmerica Job ID: 720-69933-1

## Client Sample ID: GP-3-7.5-8' (Continued)

## Lab Sample ID: 720-69933-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Vanadium	69		1.6		mg/Kg	4	☼	6010B	Total/NA
Zinc	56		4.9		mg/Kg	4	☼	6010B	Total/NA
Mercury	0.27		0.010		mg/Kg	1	☼	7471A	Total/NA

## Client Sample ID: GP-4-3.5-4'

## Lab Sample ID: 720-69933-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	5.1		1.4		mg/Kg	1	☼	8015B	Silica Gel Cleanup
Arsenic	5.7		5.3		mg/Kg	4	☼	6010B	Total/NA
Barium	180		2.6		mg/Kg	4	☼	6010B	Total/NA
Beryllium	0.79		0.53		mg/Kg	4	☼	6010B	Total/NA
Cadmium	0.37		0.16		mg/Kg	1	☼	6010B	Total/NA
Chromium	63		2.6		mg/Kg	4	☼	6010B	Total/NA
Cobalt	13		1.1		mg/Kg	4	☼	6010B	Total/NA
Copper	45		7.9		mg/Kg	4	☼	6010B	Total/NA
Lead	39		2.6		mg/Kg	4	☼	6010B	Total/NA
Molybdenum	0.76		0.66		mg/Kg	1	☼	6010B	Total/NA
Nickel	77		2.6		mg/Kg	4	☼	6010B	Total/NA
Vanadium	51		2.6		mg/Kg	4	☼	6010B	Total/NA
Zinc	120		7.9		mg/Kg	4	☼	6010B	Total/NA
Mercury	0.18		0.013		mg/Kg	1	☼	7471A	Total/NA

## Client Sample ID: GP-5-4.5-5'

## Lab Sample ID: 720-69933-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	43		1.3		mg/Kg	1	☼	8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	110		63		mg/Kg	1	☼	8015B	Silica Gel Cleanup
Arsenic	5.1		3.8		mg/Kg	4	☼	6010B	Total/NA
Barium	34		1.9		mg/Kg	4	☼	6010B	Total/NA
Cadmium	0.85		0.48		mg/Kg	4	☼	6010B	Total/NA
Chromium	32		1.9		mg/Kg	4	☼	6010B	Total/NA
Cobalt	5.7		0.77		mg/Kg	4	☼	6010B	Total/NA
Copper	62		5.8		mg/Kg	4	☼	6010B	Total/NA
Lead	210		1.9		mg/Kg	4	☼	6010B	Total/NA
Molybdenum	8.0		1.9		mg/Kg	4	☼	6010B	Total/NA
Nickel	130		1.9		mg/Kg	4	☼	6010B	Total/NA
Vanadium	11		1.9		mg/Kg	4	☼	6010B	Total/NA
Zinc	2000		5.8		mg/Kg	4	☼	6010B	Total/NA
Mercury	0.093		0.012		mg/Kg	1	☼	7471A	Total/NA

## Client Sample ID: GP-5-7.5-8'

## Lab Sample ID: 720-69933-24

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	46		1.3		mg/Kg	1	☼	8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	98		63		mg/Kg	1	☼	8015B	Silica Gel Cleanup
Arsenic	7.5		4.1		mg/Kg	4	☼	6010B	Total/NA
Barium	510		2.0		mg/Kg	4	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Pleasanton

# Detection Summary

Client: Geologica Inc  
Project/Site: Pin High

TestAmerica Job ID: 720-69933-1

## Client Sample ID: GP-5-7.5-8' (Continued)

## Lab Sample ID: 720-69933-24

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cadmium	2.8		0.51		mg/Kg	4	☼	6010B	Total/NA
Chromium	39		2.0		mg/Kg	4	☼	6010B	Total/NA
Cobalt	13		0.81		mg/Kg	4	☼	6010B	Total/NA
Copper	140		6.1		mg/Kg	4	☼	6010B	Total/NA
Lead	290		2.0		mg/Kg	4	☼	6010B	Total/NA
Nickel	50		2.0		mg/Kg	4	☼	6010B	Total/NA
Vanadium	38		2.0		mg/Kg	4	☼	6010B	Total/NA
Zinc	1100		6.1		mg/Kg	4	☼	6010B	Total/NA
Mercury	1.1		0.011		mg/Kg	1	☼	7471A	Total/NA

## Client Sample ID: GP-6-3.5-4'

## Lab Sample ID: 720-69933-27

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	25		1.1		mg/Kg	1	☼	8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	99		57		mg/Kg	1	☼	8015B	Silica Gel Cleanup
Dieldrin	11		2.3		ug/Kg	1	☼	8081A	Total/NA
4,4'-DDT	11		2.3		ug/Kg	1	☼	8081A	Total/NA
4,4'-DDE	18		2.3		ug/Kg	1	☼	8081A	Total/NA
4,4'-DDD	4.4		2.3		ug/Kg	1	☼	8081A	Total/NA
Arsenic	2.7		0.85		mg/Kg	1	☼	6010B	Total/NA
Barium	38		1.7		mg/Kg	4	☼	6010B	Total/NA
Beryllium	0.095		0.085		mg/Kg	1	☼	6010B	Total/NA
Chromium	24		1.7		mg/Kg	4	☼	6010B	Total/NA
Cobalt	3.9		0.68		mg/Kg	4	☼	6010B	Total/NA
Copper	20		5.1		mg/Kg	4	☼	6010B	Total/NA
Lead	23		1.7		mg/Kg	4	☼	6010B	Total/NA
Molybdenum	4.5		1.7		mg/Kg	4	☼	6010B	Total/NA
Nickel	40		1.7		mg/Kg	4	☼	6010B	Total/NA
Vanadium	14		1.7		mg/Kg	4	☼	6010B	Total/NA
Zinc	28		5.1		mg/Kg	4	☼	6010B	Total/NA
Mercury	0.081		0.011		mg/Kg	1	☼	7471A	Total/NA

## Client Sample ID: GP-6-7.5-8'

## Lab Sample ID: 720-69933-28

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	9.0		1.3		mg/Kg	1	☼	8015B	Silica Gel Cleanup
Dieldrin	4.1		2.5		ug/Kg	1	☼	8081A	Total/NA
4,4'-DDT	3.4	p	2.5		ug/Kg	1	☼	8081A	Total/NA
4,4'-DDE	35		2.5		ug/Kg	1	☼	8081A	Total/NA
4,4'-DDD	62		2.5		ug/Kg	1	☼	8081A	Total/NA
PCB-1260	130		62		ug/Kg	1	☼	8082	Total/NA
Antimony	6.7		2.4		mg/Kg	4	☼	6010B	Total/NA
Arsenic	11		4.8		mg/Kg	4	☼	6010B	Total/NA
Barium	650		2.4		mg/Kg	4	☼	6010B	Total/NA
Cadmium	4.9		0.60		mg/Kg	4	☼	6010B	Total/NA
Chromium	65		2.4		mg/Kg	4	☼	6010B	Total/NA
Cobalt	15		0.95		mg/Kg	4	☼	6010B	Total/NA
Copper	99		7.2		mg/Kg	4	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Pleasanton

# Detection Summary

Client: Geologica Inc  
Project/Site: Pin High

TestAmerica Job ID: 720-69933-1

## Client Sample ID: GP-6-7.5-8' (Continued)

## Lab Sample ID: 720-69933-28

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	710		2.4		mg/Kg	4	☼	6010B	Total/NA
Nickel	79		2.4		mg/Kg	4	☼	6010B	Total/NA
Vanadium	47		2.4		mg/Kg	4	☼	6010B	Total/NA
Zinc	460		7.2		mg/Kg	4	☼	6010B	Total/NA
Mercury	0.16		0.011		mg/Kg	1	☼	7471A	Total/NA

## Client Sample ID: GP-7-3.5-4'

## Lab Sample ID: 720-69933-31

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	21		1.2		mg/Kg	1	☼	8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	72		61		mg/Kg	1	☼	8015B	Silica Gel Cleanup
Arsenic	7.1		4.6		mg/Kg	4	☼	6010B	Total/NA
Barium	150		2.3		mg/Kg	4	☼	6010B	Total/NA
Chromium	60		2.3		mg/Kg	4	☼	6010B	Total/NA
Cobalt	14		0.91		mg/Kg	4	☼	6010B	Total/NA
Copper	34		6.8		mg/Kg	4	☼	6010B	Total/NA
Lead	38		2.3		mg/Kg	4	☼	6010B	Total/NA
Nickel	94		2.3		mg/Kg	4	☼	6010B	Total/NA
Vanadium	39		2.3		mg/Kg	4	☼	6010B	Total/NA
Zinc	81		6.8		mg/Kg	4	☼	6010B	Total/NA
Mercury	0.66		0.011		mg/Kg	1	☼	7471A	Total/NA

## Client Sample ID: GP-7-7.5-8'

## Lab Sample ID: 720-69933-32

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	1.5		1.3		mg/Kg	1	☼	8015B	Silica Gel Cleanup
Arsenic	8.3		3.2		mg/Kg	4	☼	6010B	Total/NA
Barium	250		1.6		mg/Kg	4	☼	6010B	Total/NA
Beryllium	0.67		0.32		mg/Kg	4	☼	6010B	Total/NA
Chromium	69		1.6		mg/Kg	4	☼	6010B	Total/NA
Cobalt	17		0.63		mg/Kg	4	☼	6010B	Total/NA
Copper	39		4.7		mg/Kg	4	☼	6010B	Total/NA
Lead	12		1.6		mg/Kg	4	☼	6010B	Total/NA
Nickel	94		1.6		mg/Kg	4	☼	6010B	Total/NA
Vanadium	55		1.6		mg/Kg	4	☼	6010B	Total/NA
Zinc	79		4.7		mg/Kg	4	☼	6010B	Total/NA
Mercury	0.19		0.011		mg/Kg	1	☼	7471A	Total/NA

## Client Sample ID: GP-8-3.5-4'

## Lab Sample ID: 720-69933-35

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	21		1.3		mg/Kg	1	☼	8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	90		65		mg/Kg	1	☼	8015B	Silica Gel Cleanup
4,4'-DDT	18		2.6		ug/Kg	1	☼	8081A	Total/NA
4,4'-DDE	60		2.6		ug/Kg	1	☼	8081A	Total/NA
4,4'-DDD	16		2.6		ug/Kg	1	☼	8081A	Total/NA
Arsenic	44		4.1		mg/Kg	4	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Pleasanton

# Detection Summary

Client: Geologica Inc  
Project/Site: Pin High

TestAmerica Job ID: 720-69933-1

## Client Sample ID: GP-8-3.5-4' (Continued)

## Lab Sample ID: 720-69933-35

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	250		2.1		mg/Kg	4	☼	6010B	Total/NA
Beryllium	0.61		0.41		mg/Kg	4	☼	6010B	Total/NA
Chromium	89		2.1		mg/Kg	4	☼	6010B	Total/NA
Cobalt	21		0.83		mg/Kg	4	☼	6010B	Total/NA
Copper	53		6.2		mg/Kg	4	☼	6010B	Total/NA
Lead	130		2.1		mg/Kg	4	☼	6010B	Total/NA
Nickel	150		2.1		mg/Kg	4	☼	6010B	Total/NA
Vanadium	55		2.1		mg/Kg	4	☼	6010B	Total/NA
Zinc	130		6.2		mg/Kg	4	☼	6010B	Total/NA
Mercury	5.4		0.11		mg/Kg	10	☼	7471A	Total/NA

## Client Sample ID: GP-8-7.5-8'

## Lab Sample ID: 720-69933-36

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	7.1		4.6		mg/Kg	4	☼	6010B	Total/NA
Barium	160		2.3		mg/Kg	4	☼	6010B	Total/NA
Beryllium	0.81		0.46		mg/Kg	4	☼	6010B	Total/NA
Chromium	68		2.3		mg/Kg	4	☼	6010B	Total/NA
Cobalt	14		0.91		mg/Kg	4	☼	6010B	Total/NA
Copper	37		6.8		mg/Kg	4	☼	6010B	Total/NA
Lead	11		2.3		mg/Kg	4	☼	6010B	Total/NA
Nickel	82		2.3		mg/Kg	4	☼	6010B	Total/NA
Vanadium	54		2.3		mg/Kg	4	☼	6010B	Total/NA
Zinc	77		6.8		mg/Kg	4	☼	6010B	Total/NA
Mercury	0.12		0.011		mg/Kg	1	☼	7471A	Total/NA

## Client Sample ID: GP-9-4.5-5'

## Lab Sample ID: 720-69933-39

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	12		1.3		mg/Kg	1	☼	8015B	Silica Gel Cleanup
Arsenic	17		5.0		mg/Kg	4	☼	6010B	Total/NA
Barium	250		2.5		mg/Kg	4	☼	6010B	Total/NA
Beryllium	0.65		0.50		mg/Kg	4	☼	6010B	Total/NA
Chromium	84		2.5		mg/Kg	4	☼	6010B	Total/NA
Cobalt	22		1.0		mg/Kg	4	☼	6010B	Total/NA
Copper	45		7.5		mg/Kg	4	☼	6010B	Total/NA
Lead	37		2.5		mg/Kg	4	☼	6010B	Total/NA
Nickel	140		2.5		mg/Kg	4	☼	6010B	Total/NA
Vanadium	58		2.5		mg/Kg	4	☼	6010B	Total/NA
Zinc	94		7.5		mg/Kg	4	☼	6010B	Total/NA
Mercury	3.8		0.11		mg/Kg	10	☼	7471A	Total/NA

## Client Sample ID: GP-9-7.5-8'

## Lab Sample ID: 720-69933-40

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	56		1.3		mg/Kg	1	☼	8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	240		64		mg/Kg	1	☼	8015B	Silica Gel Cleanup
Arsenic	7.5		4.9		mg/Kg	4	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Pleasanton



# Detection Summary

Client: Geologica Inc  
Project/Site: Pin High

TestAmerica Job ID: 720-69933-1

## Client Sample ID: GP-9-7.5-8' (Continued)

## Lab Sample ID: 720-69933-40

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	210		2.5		mg/Kg	4	☼	6010B	Total/NA
Beryllium	0.78		0.49		mg/Kg	4	☼	6010B	Total/NA
Chromium	64		2.5		mg/Kg	4	☼	6010B	Total/NA
Cobalt	16		0.98		mg/Kg	4	☼	6010B	Total/NA
Copper	43		7.4		mg/Kg	4	☼	6010B	Total/NA
Lead	11		2.5		mg/Kg	4	☼	6010B	Total/NA
Nickel	88		2.5		mg/Kg	4	☼	6010B	Total/NA
Vanadium	51		2.5		mg/Kg	4	☼	6010B	Total/NA
Zinc	73		7.4		mg/Kg	4	☼	6010B	Total/NA
Mercury	0.087		0.011		mg/Kg	1	☼	7471A	Total/NA

## Client Sample ID: GP-10-3.5-4'

## Lab Sample ID: 720-69933-43

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	400		23		mg/Kg	20	☼	8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	2100		1100		mg/Kg	20	☼	8015B	Silica Gel Cleanup
Arsenic	1.0		1.0		mg/Kg	1	☼	6010B	Total/NA
Barium	33		2.0		mg/Kg	4	☼	6010B	Total/NA
Beryllium	0.20		0.10		mg/Kg	1	☼	6010B	Total/NA
Chromium	7.1		2.0		mg/Kg	4	☼	6010B	Total/NA
Cobalt	1.6		0.80		mg/Kg	4	☼	6010B	Total/NA
Copper	2.4		1.5		mg/Kg	1	☼	6010B	Total/NA
Lead	3.5		2.0		mg/Kg	4	☼	6010B	Total/NA
Molybdenum	0.89		0.50		mg/Kg	1	☼	6010B	Total/NA
Nickel	4.8		2.0		mg/Kg	4	☼	6010B	Total/NA
Vanadium	9.4		2.0		mg/Kg	4	☼	6010B	Total/NA
Zinc	10		6.0		mg/Kg	4	☼	6010B	Total/NA
Mercury	0.024		0.010		mg/Kg	1	☼	7471A	Total/NA

## Client Sample ID: GP-10-7.5-8'

## Lab Sample ID: 720-69933-44

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	2.4		1.4		mg/Kg	1	☼	8015B	Silica Gel Cleanup
Arsenic	5.6		3.6		mg/Kg	4	☼	6010B	Total/NA
Barium	250		1.8		mg/Kg	4	☼	6010B	Total/NA
Beryllium	0.74		0.36		mg/Kg	4	☼	6010B	Total/NA
Chromium	72		1.8		mg/Kg	4	☼	6010B	Total/NA
Cobalt	15		0.73		mg/Kg	4	☼	6010B	Total/NA
Copper	38		5.5		mg/Kg	4	☼	6010B	Total/NA
Lead	11		1.8		mg/Kg	4	☼	6010B	Total/NA
Nickel	90		1.8		mg/Kg	4	☼	6010B	Total/NA
Vanadium	57		1.8		mg/Kg	4	☼	6010B	Total/NA
Zinc	73		5.5		mg/Kg	4	☼	6010B	Total/NA
Mercury	0.11	F1	0.012		mg/Kg	1	☼	7471A	Total/NA

## Client Sample ID: GP-11-3.5-4'

## Lab Sample ID: 720-69933-47

This Detection Summary does not include radiochemical test results.

TestAmerica Pleasanton

# Detection Summary

Client: Geologica Inc  
Project/Site: Pin High

TestAmerica Job ID: 720-69933-1

## Client Sample ID: GP-11-3.5-4' (Continued)

## Lab Sample ID: 720-69933-47

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	90		3.7		mg/Kg	3	☼	8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	300		190		mg/Kg	3	☼	8015B	Silica Gel Cleanup
Arsenic	7.8		4.7		mg/Kg	4	☼	6010B	Total/NA
Barium	140	F1 F2	2.4		mg/Kg	4	☼	6010B	Total/NA
Chromium	480		2.4		mg/Kg	4	☼	6010B	Total/NA
Cobalt	64		0.94		mg/Kg	4	☼	6010B	Total/NA
Copper	35		7.1		mg/Kg	4	☼	6010B	Total/NA
Lead	44	F1	2.4		mg/Kg	4	☼	6010B	Total/NA
Nickel	1100		2.4		mg/Kg	4	☼	6010B	Total/NA
Vanadium	39		2.4		mg/Kg	4	☼	6010B	Total/NA
Zinc	68	F1	7.1		mg/Kg	4	☼	6010B	Total/NA
Mercury	0.10		0.011		mg/Kg	1	☼	7471A	Total/NA

## Client Sample ID: GP-11-7.5-8'

## Lab Sample ID: 720-69933-48

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	17		1.2		mg/Kg	1	☼	8015B	Silica Gel Cleanup
Arsenic	9.4		4.3		mg/Kg	4	☼	6010B	Total/NA
Barium	210		2.2		mg/Kg	4	☼	6010B	Total/NA
Beryllium	0.60		0.43		mg/Kg	4	☼	6010B	Total/NA
Chromium	74		2.2		mg/Kg	4	☼	6010B	Total/NA
Cobalt	17		0.86		mg/Kg	4	☼	6010B	Total/NA
Copper	41		6.5		mg/Kg	4	☼	6010B	Total/NA
Lead	11		2.2		mg/Kg	4	☼	6010B	Total/NA
Nickel	100		2.2		mg/Kg	4	☼	6010B	Total/NA
Vanadium	55		2.2		mg/Kg	4	☼	6010B	Total/NA
Zinc	82		6.5		mg/Kg	4	☼	6010B	Total/NA
Mercury	0.12		0.011		mg/Kg	1	☼	7471A	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Pleasanton

# Client Sample Results

Client: Geologica Inc  
Project/Site: Pin High

TestAmerica Job ID: 720-69933-1

**Client Sample ID: GP-1**  
**Date Collected: 01/21/16 15:00**  
**Date Received: 01/22/16 17:10**

**Lab Sample ID: 720-69933-1**  
**Matrix: Water**

**Method: 8260B/CA\_LUFTMS - 8260B / CA LUFT MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50		ug/L			01/26/16 15:19	1
Acetone	ND		50		ug/L			01/26/16 15:19	1
Benzene	ND		0.50		ug/L			01/26/16 15:19	1
Dichlorobromomethane	ND		0.50		ug/L			01/26/16 15:19	1
Bromobenzene	ND		1.0		ug/L			01/26/16 15:19	1
Chlorobromomethane	ND		1.0		ug/L			01/26/16 15:19	1
Bromoform	ND		1.0		ug/L			01/26/16 15:19	1
Bromomethane	ND		1.0		ug/L			01/26/16 15:19	1
2-Butanone (MEK)	ND		50		ug/L			01/26/16 15:19	1
n-Butylbenzene	ND		1.0		ug/L			01/26/16 15:19	1
sec-Butylbenzene	ND		1.0		ug/L			01/26/16 15:19	1
tert-Butylbenzene	ND		1.0		ug/L			01/26/16 15:19	1
Carbon disulfide	ND		5.0		ug/L			01/26/16 15:19	1
Carbon tetrachloride	ND		0.50		ug/L			01/26/16 15:19	1
Chlorobenzene	ND		0.50		ug/L			01/26/16 15:19	1
Chloroethane	ND		1.0		ug/L			01/26/16 15:19	1
Chloroform	ND		1.0		ug/L			01/26/16 15:19	1
Chloromethane	ND		1.0		ug/L			01/26/16 15:19	1
2-Chlorotoluene	ND		0.50		ug/L			01/26/16 15:19	1
4-Chlorotoluene	ND		0.50		ug/L			01/26/16 15:19	1
Chlorodibromomethane	ND		0.50		ug/L			01/26/16 15:19	1
1,2-Dichlorobenzene	ND		0.50		ug/L			01/26/16 15:19	1
1,3-Dichlorobenzene	ND		0.50		ug/L			01/26/16 15:19	1
1,4-Dichlorobenzene	ND		0.50		ug/L			01/26/16 15:19	1
1,3-Dichloropropane	ND		1.0		ug/L			01/26/16 15:19	1
1,1-Dichloropropene	ND		0.50		ug/L			01/26/16 15:19	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			01/26/16 15:19	1
Ethylene Dibromide	ND		0.50		ug/L			01/26/16 15:19	1
Dibromomethane	ND		0.50		ug/L			01/26/16 15:19	1
Dichlorodifluoromethane	ND		0.50		ug/L			01/26/16 15:19	1
1,1-Dichloroethane	ND		0.50		ug/L			01/26/16 15:19	1
1,2-Dichloroethane	ND		0.50		ug/L			01/26/16 15:19	1
1,1-Dichloroethene	ND		0.50		ug/L			01/26/16 15:19	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			01/26/16 15:19	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			01/26/16 15:19	1
1,2-Dichloropropane	ND		0.50		ug/L			01/26/16 15:19	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			01/26/16 15:19	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			01/26/16 15:19	1
Ethylbenzene	ND		0.50		ug/L			01/26/16 15:19	1
Hexachlorobutadiene	ND		1.0		ug/L			01/26/16 15:19	1
2-Hexanone	ND		50		ug/L			01/26/16 15:19	1
Isopropylbenzene	ND		0.50		ug/L			01/26/16 15:19	1
4-Isopropyltoluene	ND		1.0		ug/L			01/26/16 15:19	1
Methylene Chloride	ND		5.0		ug/L			01/26/16 15:19	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			01/26/16 15:19	1
Naphthalene	ND		1.0		ug/L			01/26/16 15:19	1
N-Propylbenzene	ND		1.0		ug/L			01/26/16 15:19	1
Styrene	ND		0.50		ug/L			01/26/16 15:19	1
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			01/26/16 15:19	1

TestAmerica Pleasanton

# Client Sample Results

Client: Geologica Inc  
Project/Site: Pin High

TestAmerica Job ID: 720-69933-1

**Client Sample ID: GP-1**

**Lab Sample ID: 720-69933-1**

**Date Collected: 01/21/16 15:00**

**Matrix: Water**

**Date Received: 01/22/16 17:10**

**Method: 8260B/CA\_LUFTMS - 8260B / CA LUFT MS (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			01/26/16 15:19	1
Tetrachloroethene	ND		0.50		ug/L			01/26/16 15:19	1
Toluene	ND		0.50		ug/L			01/26/16 15:19	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			01/26/16 15:19	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			01/26/16 15:19	1
1,1,1-Trichloroethane	ND		0.50		ug/L			01/26/16 15:19	1
1,1,2-Trichloroethane	ND		0.50		ug/L			01/26/16 15:19	1
Trichloroethene	ND		0.50		ug/L			01/26/16 15:19	1
Trichlorofluoromethane	ND		1.0		ug/L			01/26/16 15:19	1
1,2,3-Trichloropropane	ND		0.50		ug/L			01/26/16 15:19	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			01/26/16 15:19	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			01/26/16 15:19	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			01/26/16 15:19	1
Vinyl acetate	ND		10		ug/L			01/26/16 15:19	1
Vinyl chloride	ND		0.50		ug/L			01/26/16 15:19	1
Xylenes, Total	ND		1.0		ug/L			01/26/16 15:19	1
2,2-Dichloropropane	ND		0.50		ug/L			01/26/16 15:19	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			01/26/16 15:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	111		67 - 130		01/26/16 15:19	1
1,2-Dichloroethane-d4 (Surr)	105		72 - 130		01/26/16 15:19	1
Toluene-d8 (Surr)	104		70 - 130		01/26/16 15:19	1

**Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		50		ug/L		01/27/16 16:40	01/28/16 14:53	1
Motor Oil Range Organics [C24-C36]	ND		100		ug/L		01/27/16 16:40	01/28/16 14:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Capric Acid (Surr)	0.01		0 - 5	01/27/16 16:40	01/28/16 14:53	1
p-Terphenyl	105		31 - 150	01/27/16 16:40	01/28/16 14:53	1

**Method: 6010B - Metals (ICP) - Dissolved**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.010		mg/L		01/27/16 14:17	01/28/16 17:44	1
Arsenic	ND		0.010		mg/L		01/27/16 14:17	01/28/16 17:44	1
Barium	ND		0.050		mg/L		01/27/16 14:17	01/28/16 17:44	1
Beryllium	ND		0.0020		mg/L		01/27/16 14:17	01/28/16 17:44	1
Cadmium	ND		0.0020		mg/L		01/27/16 14:17	01/28/16 17:44	1
Chromium	ND		0.010		mg/L		01/27/16 14:17	01/28/16 17:44	1
<b>Cobalt</b>	<b>0.0038</b>		0.0020		mg/L		01/27/16 14:17	01/28/16 17:44	1
Copper	ND		0.020		mg/L		01/27/16 14:17	01/28/16 17:44	1
Lead	ND		0.0050		mg/L		01/27/16 14:17	01/28/16 17:44	1
<b>Molybdenum</b>	<b>0.049</b>		0.010		mg/L		01/27/16 14:17	01/28/16 17:44	1
<b>Nickel</b>	<b>0.010</b>		0.010		mg/L		01/27/16 14:17	01/28/16 17:44	1
Selenium	ND		0.020		mg/L		01/27/16 14:17	01/28/16 17:44	1
Silver	ND		0.0050		mg/L		01/27/16 14:17	01/28/16 17:44	1
Thallium	ND		0.010		mg/L		01/27/16 14:17	01/28/16 17:44	1
Vanadium	ND		0.010		mg/L		01/27/16 14:17	01/28/16 17:44	1

TestAmerica Pleasanton

# Client Sample Results

Client: Geologica Inc  
Project/Site: Pin High

TestAmerica Job ID: 720-69933-1

**Client Sample ID: GP-1**

**Lab Sample ID: 720-69933-1**

**Date Collected: 01/21/16 15:00**

**Matrix: Water**

**Date Received: 01/22/16 17:10**

**Method: 6010B - Metals (ICP) - Dissolved (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	ND		0.020		mg/L		01/27/16 14:17	01/28/16 17:44	1

**Method: 7470A - Mercury (CVAA) - Dissolved**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00021		0.00020		mg/L		01/28/16 12:32	01/28/16 17:36	1

# Client Sample Results

Client: Geologica Inc  
Project/Site: Pin High

TestAmerica Job ID: 720-69933-1

**Client Sample ID: GP-2**  
**Date Collected: 01/21/16 12:00**  
**Date Received: 01/22/16 17:10**

**Lab Sample ID: 720-69933-2**  
**Matrix: Water**

**Method: 8260B/CA\_LUFTMS - 8260B / CA LUFT MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50		ug/L			01/26/16 15:47	1
Acetone	ND		50		ug/L			01/26/16 15:47	1
Benzene	ND		0.50		ug/L			01/26/16 15:47	1
Dichlorobromomethane	ND		0.50		ug/L			01/26/16 15:47	1
Bromobenzene	ND		1.0		ug/L			01/26/16 15:47	1
Chlorobromomethane	ND		1.0		ug/L			01/26/16 15:47	1
Bromoform	ND		1.0		ug/L			01/26/16 15:47	1
Bromomethane	ND		1.0		ug/L			01/26/16 15:47	1
2-Butanone (MEK)	ND		50		ug/L			01/26/16 15:47	1
n-Butylbenzene	ND		1.0		ug/L			01/26/16 15:47	1
sec-Butylbenzene	ND		1.0		ug/L			01/26/16 15:47	1
tert-Butylbenzene	ND		1.0		ug/L			01/26/16 15:47	1
Carbon disulfide	ND		5.0		ug/L			01/26/16 15:47	1
Carbon tetrachloride	ND		0.50		ug/L			01/26/16 15:47	1
Chlorobenzene	ND		0.50		ug/L			01/26/16 15:47	1
Chloroethane	ND		1.0		ug/L			01/26/16 15:47	1
Chloroform	ND		1.0		ug/L			01/26/16 15:47	1
Chloromethane	ND		1.0		ug/L			01/26/16 15:47	1
2-Chlorotoluene	ND		0.50		ug/L			01/26/16 15:47	1
4-Chlorotoluene	ND		0.50		ug/L			01/26/16 15:47	1
Chlorodibromomethane	ND		0.50		ug/L			01/26/16 15:47	1
1,2-Dichlorobenzene	ND		0.50		ug/L			01/26/16 15:47	1
1,3-Dichlorobenzene	ND		0.50		ug/L			01/26/16 15:47	1
1,4-Dichlorobenzene	ND		0.50		ug/L			01/26/16 15:47	1
1,3-Dichloropropane	ND		1.0		ug/L			01/26/16 15:47	1
1,1-Dichloropropene	ND		0.50		ug/L			01/26/16 15:47	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			01/26/16 15:47	1
Ethylene Dibromide	ND		0.50		ug/L			01/26/16 15:47	1
Dibromomethane	ND		0.50		ug/L			01/26/16 15:47	1
Dichlorodifluoromethane	ND		0.50		ug/L			01/26/16 15:47	1
<b>1,1-Dichloroethane</b>	<b>2.5</b>		0.50		ug/L			01/26/16 15:47	1
1,2-Dichloroethane	ND		0.50		ug/L			01/26/16 15:47	1
<b>1,1-Dichloroethene</b>	<b>18</b>		0.50		ug/L			01/26/16 15:47	1
<b>cis-1,2-Dichloroethene</b>	<b>0.62</b>		0.50		ug/L			01/26/16 15:47	1
<b>trans-1,2-Dichloroethene</b>	<b>1.1</b>		0.50		ug/L			01/26/16 15:47	1
1,2-Dichloropropane	ND		0.50		ug/L			01/26/16 15:47	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			01/26/16 15:47	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			01/26/16 15:47	1
Ethylbenzene	ND		0.50		ug/L			01/26/16 15:47	1
Hexachlorobutadiene	ND		1.0		ug/L			01/26/16 15:47	1
2-Hexanone	ND		50		ug/L			01/26/16 15:47	1
Isopropylbenzene	ND		0.50		ug/L			01/26/16 15:47	1
4-Isopropyltoluene	ND		1.0		ug/L			01/26/16 15:47	1
Methylene Chloride	ND		5.0		ug/L			01/26/16 15:47	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			01/26/16 15:47	1
Naphthalene	ND		1.0		ug/L			01/26/16 15:47	1
N-Propylbenzene	ND		1.0		ug/L			01/26/16 15:47	1
Styrene	ND		0.50		ug/L			01/26/16 15:47	1
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			01/26/16 15:47	1

TestAmerica Pleasanton

# Client Sample Results

Client: Geologica Inc  
Project/Site: Pin High

TestAmerica Job ID: 720-69933-1

**Client Sample ID: GP-2**  
**Date Collected: 01/21/16 12:00**  
**Date Received: 01/22/16 17:10**

**Lab Sample ID: 720-69933-2**  
**Matrix: Water**

**Method: 8260B/CA\_LUFTMS - 8260B / CA LUFT MS (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			01/26/16 15:47	1
Tetrachloroethene	ND		0.50		ug/L			01/26/16 15:47	1
Toluene	ND		0.50		ug/L			01/26/16 15:47	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			01/26/16 15:47	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			01/26/16 15:47	1
<b>1,1,1-Trichloroethane</b>	<b>1.8</b>		0.50		ug/L			01/26/16 15:47	1
1,1,2-Trichloroethane	ND		0.50		ug/L			01/26/16 15:47	1
Trichloroethene	ND		0.50		ug/L			01/26/16 15:47	1
Trichlorofluoromethane	ND		1.0		ug/L			01/26/16 15:47	1
1,2,3-Trichloropropane	ND		0.50		ug/L			01/26/16 15:47	1
<b>1,1,2-Trichloro-1,2,2-trifluoroethane</b>	<b>1.6</b>		0.50		ug/L			01/26/16 15:47	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			01/26/16 15:47	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			01/26/16 15:47	1
Vinyl acetate	ND		10		ug/L			01/26/16 15:47	1
<b>Vinyl chloride</b>	<b>0.99</b>		0.50		ug/L			01/26/16 15:47	1
Xylenes, Total	ND		1.0		ug/L			01/26/16 15:47	1
2,2-Dichloropropane	ND		0.50		ug/L			01/26/16 15:47	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			01/26/16 15:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	101		67 - 130		01/26/16 15:47	1
1,2-Dichloroethane-d4 (Surr)	95		72 - 130		01/26/16 15:47	1
Toluene-d8 (Surr)	102		70 - 130		01/26/16 15:47	1

**Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Diesel Range Organics [C10-C28]</b>	<b>1900</b>		270		ug/L		01/27/16 16:40	01/28/16 16:55	5
<b>Motor Oil Range Organics [C24-C36]</b>	<b>10000</b>		540		ug/L		01/27/16 16:40	01/28/16 16:55	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Capric Acid (Surr)	0		0 - 5	01/27/16 16:40	01/28/16 16:55	5
p-Terphenyl	0	X D	31 - 150	01/27/16 16:40	01/28/16 16:55	5

**Method: 6010B - Metals (ICP) - Dissolved**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.010		mg/L		01/27/16 14:17	01/28/16 17:49	1
Arsenic	ND		0.010		mg/L		01/27/16 14:17	01/28/16 17:49	1
<b>Barium</b>	<b>0.081</b>		0.050		mg/L		01/27/16 14:17	01/28/16 17:49	1
Beryllium	ND		0.0020		mg/L		01/27/16 14:17	01/28/16 17:49	1
Cadmium	ND		0.0020		mg/L		01/27/16 14:17	01/28/16 17:49	1
Chromium	ND		0.010		mg/L		01/27/16 14:17	01/28/16 17:49	1
<b>Cobalt</b>	<b>0.0081</b>		0.0020		mg/L		01/27/16 14:17	01/28/16 17:49	1
Copper	ND		0.020		mg/L		01/27/16 14:17	01/28/16 17:49	1
Lead	ND		0.0050		mg/L		01/27/16 14:17	01/28/16 17:49	1
<b>Molybdenum</b>	<b>0.035</b>		0.010		mg/L		01/27/16 14:17	01/28/16 17:49	1
<b>Nickel</b>	<b>0.025</b>		0.010		mg/L		01/27/16 14:17	01/28/16 17:49	1
Selenium	ND		0.020		mg/L		01/27/16 14:17	01/28/16 17:49	1
Silver	ND		0.0050		mg/L		01/27/16 14:17	01/28/16 17:49	1

TestAmerica Pleasanton



# Client Sample Results

Client: Geologica Inc  
Project/Site: Pin High

TestAmerica Job ID: 720-69933-1

**Client Sample ID: GP-2**

**Lab Sample ID: 720-69933-2**

**Date Collected: 01/21/16 12:00**

**Matrix: Water**

**Date Received: 01/22/16 17:10**

**Method: 6010B - Metals (ICP) - Dissolved (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	ND		0.010		mg/L		01/27/16 14:17	01/28/16 17:49	1
Vanadium	ND		0.010		mg/L		01/27/16 14:17	01/28/16 17:49	1
<b>Zinc</b>	<b>0.024</b>		0.020		mg/L		01/27/16 14:17	01/28/16 17:49	1

**Method: 7470A - Mercury (CVAA) - Dissolved**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020		mg/L		01/28/16 12:32	01/28/16 17:43	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

# Client Sample Results

Client: Geologica Inc  
Project/Site: Pin High

TestAmerica Job ID: 720-69933-1

**Client Sample ID: GP-3**  
**Date Collected: 01/21/16 14:10**  
**Date Received: 01/22/16 17:10**

**Lab Sample ID: 720-69933-3**  
**Matrix: Water**

**Method: 8260B/CA\_LUFTMS - 8260B / CA LUFT MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50		ug/L			01/26/16 16:14	1
Acetone	ND		50		ug/L			01/26/16 16:14	1
<b>Benzene</b>	<b>6.5</b>		0.50		ug/L			01/26/16 16:14	1
Dichlorobromomethane	ND		0.50		ug/L			01/26/16 16:14	1
Bromobenzene	ND		1.0		ug/L			01/26/16 16:14	1
Chlorobromomethane	ND		1.0		ug/L			01/26/16 16:14	1
Bromoform	ND		1.0		ug/L			01/26/16 16:14	1
Bromomethane	ND		1.0		ug/L			01/26/16 16:14	1
2-Butanone (MEK)	ND		50		ug/L			01/26/16 16:14	1
n-Butylbenzene	ND		1.0		ug/L			01/26/16 16:14	1
sec-Butylbenzene	ND		1.0		ug/L			01/26/16 16:14	1
tert-Butylbenzene	ND		1.0		ug/L			01/26/16 16:14	1
Carbon disulfide	ND		5.0		ug/L			01/26/16 16:14	1
Carbon tetrachloride	ND		0.50		ug/L			01/26/16 16:14	1
Chlorobenzene	ND		0.50		ug/L			01/26/16 16:14	1
Chloroethane	ND		1.0		ug/L			01/26/16 16:14	1
Chloroform	ND		1.0		ug/L			01/26/16 16:14	1
Chloromethane	ND		1.0		ug/L			01/26/16 16:14	1
2-Chlorotoluene	ND		0.50		ug/L			01/26/16 16:14	1
4-Chlorotoluene	ND		0.50		ug/L			01/26/16 16:14	1
Chlorodibromomethane	ND		0.50		ug/L			01/26/16 16:14	1
1,2-Dichlorobenzene	ND		0.50		ug/L			01/26/16 16:14	1
1,3-Dichlorobenzene	ND		0.50		ug/L			01/26/16 16:14	1
1,4-Dichlorobenzene	ND		0.50		ug/L			01/26/16 16:14	1
1,3-Dichloropropane	ND		1.0		ug/L			01/26/16 16:14	1
1,1-Dichloropropane	ND		0.50		ug/L			01/26/16 16:14	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			01/26/16 16:14	1
Ethylene Dibromide	ND		0.50		ug/L			01/26/16 16:14	1
Dibromomethane	ND		0.50		ug/L			01/26/16 16:14	1
Dichlorodifluoromethane	ND		0.50		ug/L			01/26/16 16:14	1
1,1-Dichloroethane	ND		0.50		ug/L			01/26/16 16:14	1
1,2-Dichloroethane	ND		0.50		ug/L			01/26/16 16:14	1
1,1-Dichloroethene	ND		0.50		ug/L			01/26/16 16:14	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			01/26/16 16:14	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			01/26/16 16:14	1
1,2-Dichloropropane	ND		0.50		ug/L			01/26/16 16:14	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			01/26/16 16:14	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			01/26/16 16:14	1
Ethylbenzene	ND		0.50		ug/L			01/26/16 16:14	1
Hexachlorobutadiene	ND		1.0		ug/L			01/26/16 16:14	1
2-Hexanone	ND		50		ug/L			01/26/16 16:14	1
Isopropylbenzene	ND		0.50		ug/L			01/26/16 16:14	1
4-Isopropyltoluene	ND		1.0		ug/L			01/26/16 16:14	1
Methylene Chloride	ND		5.0		ug/L			01/26/16 16:14	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			01/26/16 16:14	1
Naphthalene	ND		1.0		ug/L			01/26/16 16:14	1
N-Propylbenzene	ND		1.0		ug/L			01/26/16 16:14	1
Styrene	ND		0.50		ug/L			01/26/16 16:14	1
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			01/26/16 16:14	1

TestAmerica Pleasanton

# Client Sample Results

Client: Geologica Inc  
Project/Site: Pin High

TestAmerica Job ID: 720-69933-1

**Client Sample ID: GP-3**  
**Date Collected: 01/21/16 14:10**  
**Date Received: 01/22/16 17:10**

**Lab Sample ID: 720-69933-3**  
**Matrix: Water**

### Method: 8260B/CA\_LUFTMS - 8260B / CA LUFT MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			01/26/16 16:14	1
Tetrachloroethene	ND		0.50		ug/L			01/26/16 16:14	1
Toluene	ND		0.50		ug/L			01/26/16 16:14	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			01/26/16 16:14	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			01/26/16 16:14	1
1,1,1-Trichloroethane	ND		0.50		ug/L			01/26/16 16:14	1
1,1,2-Trichloroethane	ND		0.50		ug/L			01/26/16 16:14	1
Trichloroethene	ND		0.50		ug/L			01/26/16 16:14	1
Trichlorofluoromethane	ND		1.0		ug/L			01/26/16 16:14	1
1,2,3-Trichloropropane	ND		0.50		ug/L			01/26/16 16:14	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			01/26/16 16:14	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			01/26/16 16:14	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			01/26/16 16:14	1
Vinyl acetate	ND		10		ug/L			01/26/16 16:14	1
Vinyl chloride	ND		0.50		ug/L			01/26/16 16:14	1
Xylenes, Total	ND		1.0		ug/L			01/26/16 16:14	1
2,2-Dichloropropane	ND		0.50		ug/L			01/26/16 16:14	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			01/26/16 16:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	103		67 - 130					01/26/16 16:14	1
1,2-Dichloroethane-d4 (Surr)	102		72 - 130					01/26/16 16:14	1
Toluene-d8 (Surr)	104		70 - 130					01/26/16 16:14	1

### Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		52		ug/L		01/27/16 16:40	01/28/16 15:42	1
<b>Motor Oil Range Organics [C24-C36]</b>	<b>170</b>		100		ug/L		01/27/16 16:40	01/28/16 15:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Capric Acid (Surr)	0.006		0 - 5				01/27/16 16:40	01/28/16 15:42	1
p-Terphenyl	104		31 - 150				01/27/16 16:40	01/28/16 15:42	1

### Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.010		mg/L		01/27/16 14:17	01/28/16 17:54	1
Arsenic	ND		0.010		mg/L		01/27/16 14:17	01/28/16 17:54	1
<b>Barium</b>	<b>0.052</b>		0.050		mg/L		01/27/16 14:17	01/28/16 17:54	1
Beryllium	ND		0.0020		mg/L		01/27/16 14:17	01/28/16 17:54	1
Cadmium	ND		0.0020		mg/L		01/27/16 14:17	01/28/16 17:54	1
Chromium	ND		0.010		mg/L		01/27/16 14:17	01/28/16 17:54	1
<b>Cobalt</b>	<b>0.010</b>		0.0020		mg/L		01/27/16 14:17	01/28/16 17:54	1
Copper	ND		0.020		mg/L		01/27/16 14:17	01/28/16 17:54	1
Lead	ND		0.0050		mg/L		01/27/16 14:17	01/28/16 17:54	1
<b>Molybdenum</b>	<b>0.020</b>		0.010		mg/L		01/27/16 14:17	01/28/16 17:54	1
<b>Nickel</b>	<b>0.024</b>		0.010		mg/L		01/27/16 14:17	01/28/16 17:54	1
Selenium	ND		0.020		mg/L		01/27/16 14:17	01/28/16 17:54	1
Silver	ND		0.0050		mg/L		01/27/16 14:17	01/28/16 17:54	1
Thallium	ND		0.010		mg/L		01/27/16 14:17	01/28/16 17:54	1

TestAmerica Pleasanton

# Client Sample Results

Client: Geologica Inc  
Project/Site: Pin High

TestAmerica Job ID: 720-69933-1

**Client Sample ID: GP-3**

**Lab Sample ID: 720-69933-3**

**Date Collected: 01/21/16 14:10**

**Matrix: Water**

**Date Received: 01/22/16 17:10**

## Method: 6010B - Metals (ICP) - Dissolved (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vanadium	ND		0.010		mg/L		01/27/16 14:17	01/28/16 17:54	1
Zinc	ND		0.020		mg/L		01/27/16 14:17	01/28/16 17:54	1

## Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020		mg/L		01/28/16 12:32	01/28/16 17:45	1

# Client Sample Results

Client: Geologica Inc  
Project/Site: Pin High

TestAmerica Job ID: 720-69933-1

**Client Sample ID: GP-6**  
**Date Collected: 01/21/16 16:55**  
**Date Received: 01/22/16 17:10**

**Lab Sample ID: 720-69933-4**  
**Matrix: Water**

**Method: 8260B/CA\_LUFTMS - 8260B / CA LUFT MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50		ug/L			01/26/16 16:42	1
Acetone	ND		50		ug/L			01/26/16 16:42	1
<b>Benzene</b>	<b>0.73</b>		0.50		ug/L			01/26/16 16:42	1
Dichlorobromomethane	ND		0.50		ug/L			01/26/16 16:42	1
Bromobenzene	ND		1.0		ug/L			01/26/16 16:42	1
Chlorobromomethane	ND		1.0		ug/L			01/26/16 16:42	1
Bromoform	ND		1.0		ug/L			01/26/16 16:42	1
Bromomethane	ND		1.0		ug/L			01/26/16 16:42	1
2-Butanone (MEK)	ND		50		ug/L			01/26/16 16:42	1
n-Butylbenzene	ND		1.0		ug/L			01/26/16 16:42	1
sec-Butylbenzene	ND		1.0		ug/L			01/26/16 16:42	1
tert-Butylbenzene	ND		1.0		ug/L			01/26/16 16:42	1
Carbon disulfide	ND		5.0		ug/L			01/26/16 16:42	1
Carbon tetrachloride	ND		0.50		ug/L			01/26/16 16:42	1
Chlorobenzene	ND		0.50		ug/L			01/26/16 16:42	1
Chloroethane	ND		1.0		ug/L			01/26/16 16:42	1
Chloroform	ND		1.0		ug/L			01/26/16 16:42	1
Chloromethane	ND		1.0		ug/L			01/26/16 16:42	1
2-Chlorotoluene	ND		0.50		ug/L			01/26/16 16:42	1
4-Chlorotoluene	ND		0.50		ug/L			01/26/16 16:42	1
Chlorodibromomethane	ND		0.50		ug/L			01/26/16 16:42	1
1,2-Dichlorobenzene	ND		0.50		ug/L			01/26/16 16:42	1
1,3-Dichlorobenzene	ND		0.50		ug/L			01/26/16 16:42	1
1,4-Dichlorobenzene	ND		0.50		ug/L			01/26/16 16:42	1
1,3-Dichloropropane	ND		1.0		ug/L			01/26/16 16:42	1
1,1-Dichloropropane	ND		0.50		ug/L			01/26/16 16:42	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			01/26/16 16:42	1
Ethylene Dibromide	ND		0.50		ug/L			01/26/16 16:42	1
Dibromomethane	ND		0.50		ug/L			01/26/16 16:42	1
Dichlorodifluoromethane	ND		0.50		ug/L			01/26/16 16:42	1
1,1-Dichloroethane	ND		0.50		ug/L			01/26/16 16:42	1
1,2-Dichloroethane	ND		0.50		ug/L			01/26/16 16:42	1
1,1-Dichloroethene	ND		0.50		ug/L			01/26/16 16:42	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			01/26/16 16:42	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			01/26/16 16:42	1
1,2-Dichloropropane	ND		0.50		ug/L			01/26/16 16:42	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			01/26/16 16:42	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			01/26/16 16:42	1
Ethylbenzene	ND		0.50		ug/L			01/26/16 16:42	1
Hexachlorobutadiene	ND		1.0		ug/L			01/26/16 16:42	1
2-Hexanone	ND		50		ug/L			01/26/16 16:42	1
Isopropylbenzene	ND		0.50		ug/L			01/26/16 16:42	1
4-Isopropyltoluene	ND		1.0		ug/L			01/26/16 16:42	1
Methylene Chloride	ND		5.0		ug/L			01/26/16 16:42	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			01/26/16 16:42	1
Naphthalene	ND		1.0		ug/L			01/26/16 16:42	1
N-Propylbenzene	ND		1.0		ug/L			01/26/16 16:42	1
Styrene	ND		0.50		ug/L			01/26/16 16:42	1
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			01/26/16 16:42	1

TestAmerica Pleasanton

# Client Sample Results

Client: Geologica Inc  
Project/Site: Pin High

TestAmerica Job ID: 720-69933-1

**Client Sample ID: GP-6**  
**Date Collected: 01/21/16 16:55**  
**Date Received: 01/22/16 17:10**

**Lab Sample ID: 720-69933-4**  
**Matrix: Water**

**Method: 8260B/CA\_LUFTMS - 8260B / CA LUFT MS (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			01/26/16 16:42	1
Tetrachloroethene	ND		0.50		ug/L			01/26/16 16:42	1
Toluene	ND		0.50		ug/L			01/26/16 16:42	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			01/26/16 16:42	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			01/26/16 16:42	1
1,1,1-Trichloroethane	ND		0.50		ug/L			01/26/16 16:42	1
1,1,2-Trichloroethane	ND		0.50		ug/L			01/26/16 16:42	1
Trichloroethene	ND		0.50		ug/L			01/26/16 16:42	1
Trichlorofluoromethane	ND		1.0		ug/L			01/26/16 16:42	1
1,2,3-Trichloropropane	ND		0.50		ug/L			01/26/16 16:42	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			01/26/16 16:42	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			01/26/16 16:42	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			01/26/16 16:42	1
Vinyl acetate	ND		10		ug/L			01/26/16 16:42	1
Vinyl chloride	ND		0.50		ug/L			01/26/16 16:42	1
Xylenes, Total	ND		1.0		ug/L			01/26/16 16:42	1
2,2-Dichloropropane	ND		0.50		ug/L			01/26/16 16:42	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			01/26/16 16:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	101		67 - 130		01/26/16 16:42	1
1,2-Dichloroethane-d4 (Surr)	102		72 - 130		01/26/16 16:42	1
Toluene-d8 (Surr)	104		70 - 130		01/26/16 16:42	1

**Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Diesel Range Organics [C10-C28]</b>	<b>84</b>		50		ug/L		01/27/16 16:40	01/28/16 16:06	1
<b>Motor Oil Range Organics [C24-C36]</b>	<b>120</b>		100		ug/L		01/27/16 16:40	01/28/16 16:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Capric Acid (Surr)	0.006		0 - 5	01/27/16 16:40	01/28/16 16:06	1
p-Terphenyl	115		31 - 150	01/27/16 16:40	01/28/16 16:06	1

**Method: 6010B - Metals (ICP) - Dissolved**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.010		mg/L		01/27/16 14:17	01/28/16 18:10	1
<b>Arsenic</b>	<b>0.023</b>		0.010		mg/L		01/27/16 14:17	01/28/16 18:10	1
<b>Barium</b>	<b>1.3</b>		0.050		mg/L		01/27/16 14:17	01/28/16 18:10	1
Beryllium	ND		0.0020		mg/L		01/27/16 14:17	01/28/16 18:10	1
Cadmium	ND		0.0020		mg/L		01/27/16 14:17	01/28/16 18:10	1
Chromium	ND		0.010		mg/L		01/27/16 14:17	01/28/16 18:10	1
<b>Cobalt</b>	<b>0.0033</b>		0.0020		mg/L		01/27/16 14:17	01/28/16 18:10	1
Copper	ND		0.020		mg/L		01/27/16 14:17	01/28/16 18:10	1
Lead	ND		0.0050		mg/L		01/27/16 14:17	01/28/16 18:10	1
<b>Molybdenum</b>	<b>0.019</b>		0.010		mg/L		01/27/16 14:17	01/28/16 18:10	1
<b>Nickel</b>	<b>0.013</b>		0.010		mg/L		01/27/16 14:17	01/28/16 18:10	1
Selenium	ND		0.020		mg/L		01/27/16 14:17	01/28/16 18:10	1
Silver	ND		0.0050		mg/L		01/27/16 14:17	01/28/16 18:10	1
Thallium	ND		0.010		mg/L		01/27/16 14:17	01/28/16 18:10	1

TestAmerica Pleasanton

# Client Sample Results

Client: Geologica Inc  
Project/Site: Pin High

TestAmerica Job ID: 720-69933-1

**Client Sample ID: GP-6**

**Lab Sample ID: 720-69933-4**

**Date Collected: 01/21/16 16:55**

**Matrix: Water**

**Date Received: 01/22/16 17:10**

## Method: 6010B - Metals (ICP) - Dissolved (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vanadium	ND		0.010		mg/L		01/27/16 14:17	01/28/16 18:10	1
Zinc	ND		0.020		mg/L		01/27/16 14:17	01/28/16 18:10	1

## Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020		mg/L		01/28/16 12:32	01/28/16 17:48	1



# Client Sample Results

Client: Geologica Inc  
Project/Site: Pin High

TestAmerica Job ID: 720-69933-1

**Client Sample ID: GP-7**  
**Date Collected: 01/22/16 09:10**  
**Date Received: 01/22/16 17:10**

**Lab Sample ID: 720-69933-5**  
**Matrix: Water**

**Method: 8260B/CA\_LUFTMS - 8260B / CA LUFT MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Methyl tert-butyl ether</b>	<b>1.6</b>		0.50		ug/L			01/27/16 04:14	1
Acetone	ND		50		ug/L			01/27/16 04:14	1
Benzene	ND		0.50		ug/L			01/27/16 04:14	1
Dichlorobromomethane	ND		0.50		ug/L			01/27/16 04:14	1
Bromobenzene	ND		1.0		ug/L			01/27/16 04:14	1
Chlorobromomethane	ND		1.0		ug/L			01/27/16 04:14	1
Bromoform	ND		1.0		ug/L			01/27/16 04:14	1
Bromomethane	ND		1.0		ug/L			01/27/16 04:14	1
2-Butanone (MEK)	ND		50		ug/L			01/27/16 04:14	1
n-Butylbenzene	ND		1.0		ug/L			01/27/16 04:14	1
sec-Butylbenzene	ND		1.0		ug/L			01/27/16 04:14	1
tert-Butylbenzene	ND		1.0		ug/L			01/27/16 04:14	1
Carbon disulfide	ND		5.0		ug/L			01/27/16 04:14	1
Carbon tetrachloride	ND		0.50		ug/L			01/27/16 04:14	1
Chlorobenzene	ND		0.50		ug/L			01/27/16 04:14	1
Chloroethane	ND		1.0		ug/L			01/27/16 04:14	1
Chloroform	ND		1.0		ug/L			01/27/16 04:14	1
Chloromethane	ND		1.0		ug/L			01/27/16 04:14	1
2-Chlorotoluene	ND		0.50		ug/L			01/27/16 04:14	1
4-Chlorotoluene	ND		0.50		ug/L			01/27/16 04:14	1
Chlorodibromomethane	ND		0.50		ug/L			01/27/16 04:14	1
1,2-Dichlorobenzene	ND		0.50		ug/L			01/27/16 04:14	1
1,3-Dichlorobenzene	ND		0.50		ug/L			01/27/16 04:14	1
1,4-Dichlorobenzene	ND		0.50		ug/L			01/27/16 04:14	1
1,3-Dichloropropane	ND		1.0		ug/L			01/27/16 04:14	1
1,1-Dichloropropane	ND		0.50		ug/L			01/27/16 04:14	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			01/27/16 04:14	1
Ethylene Dibromide	ND		0.50		ug/L			01/27/16 04:14	1
Dibromomethane	ND		0.50		ug/L			01/27/16 04:14	1
Dichlorodifluoromethane	ND *		0.50		ug/L			01/27/16 04:14	1
1,1-Dichloroethane	ND		0.50		ug/L			01/27/16 04:14	1
1,2-Dichloroethane	ND		0.50		ug/L			01/27/16 04:14	1
1,1-Dichloroethene	ND		0.50		ug/L			01/27/16 04:14	1
<b>cis-1,2-Dichloroethene</b>	<b>0.94</b>		0.50		ug/L			01/27/16 04:14	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			01/27/16 04:14	1
1,2-Dichloropropane	ND		0.50		ug/L			01/27/16 04:14	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			01/27/16 04:14	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			01/27/16 04:14	1
Ethylbenzene	ND		0.50		ug/L			01/27/16 04:14	1
Hexachlorobutadiene	ND		1.0		ug/L			01/27/16 04:14	1
2-Hexanone	ND		50		ug/L			01/27/16 04:14	1
Isopropylbenzene	ND		0.50		ug/L			01/27/16 04:14	1
4-Isopropyltoluene	ND		1.0		ug/L			01/27/16 04:14	1
Methylene Chloride	ND		5.0		ug/L			01/27/16 04:14	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			01/27/16 04:14	1
Naphthalene	ND		1.0		ug/L			01/27/16 04:14	1
N-Propylbenzene	ND		1.0		ug/L			01/27/16 04:14	1
Styrene	ND		0.50		ug/L			01/27/16 04:14	1
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			01/27/16 04:14	1

TestAmerica Pleasanton

# Client Sample Results

Client: Geologica Inc  
Project/Site: Pin High

TestAmerica Job ID: 720-69933-1

**Client Sample ID: GP-7**  
**Date Collected: 01/22/16 09:10**  
**Date Received: 01/22/16 17:10**

**Lab Sample ID: 720-69933-5**  
**Matrix: Water**

**Method: 8260B/CA\_LUFTMS - 8260B / CA LUFT MS (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			01/27/16 04:14	1
Tetrachloroethene	ND		0.50		ug/L			01/27/16 04:14	1
Toluene	ND		0.50		ug/L			01/27/16 04:14	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			01/27/16 04:14	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			01/27/16 04:14	1
1,1,1-Trichloroethane	ND		0.50		ug/L			01/27/16 04:14	1
1,1,2-Trichloroethane	ND		0.50		ug/L			01/27/16 04:14	1
<b>Trichloroethene</b>	<b>2.0</b>		0.50		ug/L			01/27/16 04:14	1
Trichlorofluoromethane	ND *		1.0		ug/L			01/27/16 04:14	1
1,2,3-Trichloropropane	ND		0.50		ug/L			01/27/16 04:14	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			01/27/16 04:14	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			01/27/16 04:14	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			01/27/16 04:14	1
Vinyl acetate	ND		10		ug/L			01/27/16 04:14	1
Vinyl chloride	ND		0.50		ug/L			01/27/16 04:14	1
Xylenes, Total	ND		1.0		ug/L			01/27/16 04:14	1
2,2-Dichloropropane	ND		0.50		ug/L			01/27/16 04:14	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			01/27/16 04:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	98		67 - 130		01/27/16 04:14	1
1,2-Dichloroethane-d4 (Surr)	119		72 - 130		01/27/16 04:14	1
Toluene-d8 (Surr)	97		70 - 130		01/27/16 04:14	1

**Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Diesel Range Organics [C10-C28]</b>	<b>65</b>		52		ug/L		01/27/16 16:40	01/28/16 16:30	1
<b>Motor Oil Range Organics [C24-C36]</b>	<b>350</b>		100		ug/L		01/27/16 16:40	01/28/16 16:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Capric Acid (Surr)	0.006		0 - 5	01/27/16 16:40	01/28/16 16:30	1
p-Terphenyl	117		31 - 150	01/27/16 16:40	01/28/16 16:30	1

**Method: 6010B - Metals (ICP) - Dissolved**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.010		mg/L		01/27/16 14:17	01/28/16 18:15	1
Arsenic	ND		0.010		mg/L		01/27/16 14:17	01/28/16 18:15	1
<b>Barium</b>	<b>0.069</b>		0.050		mg/L		01/27/16 14:17	01/28/16 18:15	1
Beryllium	ND		0.0020		mg/L		01/27/16 14:17	01/28/16 18:15	1
Cadmium	ND		0.0020		mg/L		01/27/16 14:17	01/28/16 18:15	1
Chromium	ND		0.010		mg/L		01/27/16 14:17	01/28/16 18:15	1
<b>Cobalt</b>	<b>0.0020</b>		0.0020		mg/L		01/27/16 14:17	01/28/16 18:15	1
Copper	ND		0.020		mg/L		01/27/16 14:17	01/28/16 18:15	1
Lead	ND		0.0050		mg/L		01/27/16 14:17	01/28/16 18:15	1
<b>Molybdenum</b>	<b>0.072</b>		0.010		mg/L		01/27/16 14:17	01/28/16 18:15	1
Nickel	ND		0.010		mg/L		01/27/16 14:17	01/28/16 18:15	1
Selenium	ND		0.020		mg/L		01/27/16 14:17	01/28/16 18:15	1
Silver	ND		0.0050		mg/L		01/27/16 14:17	01/28/16 18:15	1
Thallium	ND		0.010		mg/L		01/27/16 14:17	01/28/16 18:15	1

TestAmerica Pleasanton

# Client Sample Results

Client: Geologica Inc  
Project/Site: Pin High

TestAmerica Job ID: 720-69933-1

**Client Sample ID: GP-7**

**Lab Sample ID: 720-69933-5**

**Date Collected: 01/22/16 09:10**

**Matrix: Water**

**Date Received: 01/22/16 17:10**

## Method: 6010B - Metals (ICP) - Dissolved (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vanadium	ND		0.010		mg/L		01/27/16 14:17	01/28/16 18:15	1
Zinc	ND		0.020		mg/L		01/27/16 14:17	01/28/16 18:15	1

## Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00025		0.00020		mg/L		01/28/16 12:32	01/28/16 17:50	1

# Client Sample Results

Client: Geologica Inc  
Project/Site: Pin High

TestAmerica Job ID: 720-69933-1

**Client Sample ID: GP-10**  
**Date Collected: 01/22/16 11:50**  
**Date Received: 01/22/16 17:10**

**Lab Sample ID: 720-69933-6**  
**Matrix: Water**

**Method: 8260B/CA\_LUFTMS - 8260B / CA LUFT MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50		ug/L			01/27/16 04:42	1
Acetone	ND		50		ug/L			01/27/16 04:42	1
Benzene	ND		0.50		ug/L			01/27/16 04:42	1
Dichlorobromomethane	ND		0.50		ug/L			01/27/16 04:42	1
Bromobenzene	ND		1.0		ug/L			01/27/16 04:42	1
Chlorobromomethane	ND		1.0		ug/L			01/27/16 04:42	1
Bromoform	ND		1.0		ug/L			01/27/16 04:42	1
Bromomethane	ND		1.0		ug/L			01/27/16 04:42	1
2-Butanone (MEK)	ND		50		ug/L			01/27/16 04:42	1
n-Butylbenzene	ND		1.0		ug/L			01/27/16 04:42	1
sec-Butylbenzene	ND		1.0		ug/L			01/27/16 04:42	1
tert-Butylbenzene	ND		1.0		ug/L			01/27/16 04:42	1
Carbon disulfide	ND		5.0		ug/L			01/27/16 04:42	1
Carbon tetrachloride	ND		0.50		ug/L			01/27/16 04:42	1
Chlorobenzene	ND		0.50		ug/L			01/27/16 04:42	1
Chloroethane	ND		1.0		ug/L			01/27/16 04:42	1
Chloroform	ND		1.0		ug/L			01/27/16 04:42	1
Chloromethane	ND		1.0		ug/L			01/27/16 04:42	1
2-Chlorotoluene	ND		0.50		ug/L			01/27/16 04:42	1
4-Chlorotoluene	ND		0.50		ug/L			01/27/16 04:42	1
Chlorodibromomethane	ND		0.50		ug/L			01/27/16 04:42	1
1,2-Dichlorobenzene	ND		0.50		ug/L			01/27/16 04:42	1
1,3-Dichlorobenzene	ND		0.50		ug/L			01/27/16 04:42	1
1,4-Dichlorobenzene	ND		0.50		ug/L			01/27/16 04:42	1
1,3-Dichloropropane	ND		1.0		ug/L			01/27/16 04:42	1
1,1-Dichloropropene	ND		0.50		ug/L			01/27/16 04:42	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			01/27/16 04:42	1
Ethylene Dibromide	ND		0.50		ug/L			01/27/16 04:42	1
Dibromomethane	ND		0.50		ug/L			01/27/16 04:42	1
Dichlorodifluoromethane	ND *		0.50		ug/L			01/27/16 04:42	1
1,1-Dichloroethane	ND		0.50		ug/L			01/27/16 04:42	1
1,2-Dichloroethane	ND		0.50		ug/L			01/27/16 04:42	1
1,1-Dichloroethene	ND		0.50		ug/L			01/27/16 04:42	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			01/27/16 04:42	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			01/27/16 04:42	1
1,2-Dichloropropane	ND		0.50		ug/L			01/27/16 04:42	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			01/27/16 04:42	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			01/27/16 04:42	1
Ethylbenzene	ND		0.50		ug/L			01/27/16 04:42	1
Hexachlorobutadiene	ND		1.0		ug/L			01/27/16 04:42	1
2-Hexanone	ND		50		ug/L			01/27/16 04:42	1
Isopropylbenzene	ND		0.50		ug/L			01/27/16 04:42	1
4-Isopropyltoluene	ND		1.0		ug/L			01/27/16 04:42	1
Methylene Chloride	ND		5.0		ug/L			01/27/16 04:42	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			01/27/16 04:42	1
Naphthalene	ND		1.0		ug/L			01/27/16 04:42	1
N-Propylbenzene	ND		1.0		ug/L			01/27/16 04:42	1
Styrene	ND		0.50		ug/L			01/27/16 04:42	1
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			01/27/16 04:42	1

TestAmerica Pleasanton

# Client Sample Results

Client: Geologica Inc  
Project/Site: Pin High

TestAmerica Job ID: 720-69933-1

**Client Sample ID: GP-10**  
**Date Collected: 01/22/16 11:50**  
**Date Received: 01/22/16 17:10**

**Lab Sample ID: 720-69933-6**  
**Matrix: Water**

**Method: 8260B/CA\_LUFTMS - 8260B / CA LUFT MS (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			01/27/16 04:42	1
Tetrachloroethene	ND		0.50		ug/L			01/27/16 04:42	1
Toluene	ND		0.50		ug/L			01/27/16 04:42	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			01/27/16 04:42	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			01/27/16 04:42	1
1,1,1-Trichloroethane	ND		0.50		ug/L			01/27/16 04:42	1
1,1,2-Trichloroethane	ND		0.50		ug/L			01/27/16 04:42	1
Trichloroethene	ND		0.50		ug/L			01/27/16 04:42	1
Trichlorofluoromethane	ND *		1.0		ug/L			01/27/16 04:42	1
1,2,3-Trichloropropane	ND		0.50		ug/L			01/27/16 04:42	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			01/27/16 04:42	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			01/27/16 04:42	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			01/27/16 04:42	1
Vinyl acetate	ND		10		ug/L			01/27/16 04:42	1
Vinyl chloride	ND		0.50		ug/L			01/27/16 04:42	1
Xylenes, Total	ND		1.0		ug/L			01/27/16 04:42	1
2,2-Dichloropropane	ND		0.50		ug/L			01/27/16 04:42	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			01/27/16 04:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	98		67 - 130		01/27/16 04:42	1
1,2-Dichloroethane-d4 (Surr)	127		72 - 130		01/27/16 04:42	1
Toluene-d8 (Surr)	99		70 - 130		01/27/16 04:42	1

**Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Diesel Range Organics [C10-C28]</b>	<b>150</b>		51		ug/L		01/27/16 16:40	01/28/16 15:18	1
<b>Motor Oil Range Organics [C24-C36]</b>	<b>390</b>		100		ug/L		01/27/16 16:40	01/28/16 15:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Capric Acid (Surr)	0.008		0 - 5	01/27/16 16:40	01/28/16 15:18	1
p-Terphenyl	102		31 - 150	01/27/16 16:40	01/28/16 15:18	1

**Method: 6010B - Metals (ICP) - Dissolved**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.010		mg/L		01/27/16 14:17	01/28/16 18:20	1
Arsenic	ND		0.010		mg/L		01/27/16 14:17	01/28/16 18:20	1
<b>Barium</b>	<b>0.097</b>		0.050		mg/L		01/27/16 14:17	01/28/16 18:20	1
Beryllium	ND		0.0020		mg/L		01/27/16 14:17	01/28/16 18:20	1
Cadmium	ND		0.0020		mg/L		01/27/16 14:17	01/28/16 18:20	1
Chromium	ND		0.010		mg/L		01/27/16 14:17	01/28/16 18:20	1
<b>Cobalt</b>	<b>0.0093</b>		0.0020		mg/L		01/27/16 14:17	01/28/16 18:20	1
Copper	ND		0.020		mg/L		01/27/16 14:17	01/28/16 18:20	1
Lead	ND		0.0050		mg/L		01/27/16 14:17	01/28/16 18:20	1
<b>Molybdenum</b>	<b>0.018</b>		0.010		mg/L		01/27/16 14:17	01/28/16 18:20	1
<b>Nickel</b>	<b>0.013</b>		0.010		mg/L		01/27/16 14:17	01/28/16 18:20	1
Selenium	ND		0.020		mg/L		01/27/16 14:17	01/28/16 18:20	1
Silver	ND		0.0050		mg/L		01/27/16 14:17	01/28/16 18:20	1
Thallium	ND		0.010		mg/L		01/27/16 14:17	01/28/16 18:20	1

TestAmerica Pleasanton

# Client Sample Results

Client: Geologica Inc  
Project/Site: Pin High

TestAmerica Job ID: 720-69933-1

**Client Sample ID: GP-10**  
**Date Collected: 01/22/16 11:50**  
**Date Received: 01/22/16 17:10**

**Lab Sample ID: 720-69933-6**  
**Matrix: Water**

## Method: 6010B - Metals (ICP) - Dissolved (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vanadium	ND		0.010		mg/L		01/27/16 14:17	01/28/16 18:20	1
Zinc	ND		0.020		mg/L		01/27/16 14:17	01/28/16 18:20	1

## Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00023		0.00020		mg/L		01/28/16 12:32	01/28/16 17:52	1

# Client Sample Results

Client: Geologica Inc  
Project/Site: Pin High

TestAmerica Job ID: 720-69933-1

**Client Sample ID: TRIP BLANK**

**Lab Sample ID: 720-69933-7**

**Date Collected: 01/22/16 12:30**

**Matrix: Water**

**Date Received: 01/22/16 17:10**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50		ug/L			01/26/16 01:36	1
Acetone	ND		50		ug/L			01/26/16 01:36	1
Benzene	ND		0.50		ug/L			01/26/16 01:36	1
Dichlorobromomethane	ND		0.50		ug/L			01/26/16 01:36	1
Bromobenzene	ND		1.0		ug/L			01/26/16 01:36	1
Chlorobromomethane	ND		1.0		ug/L			01/26/16 01:36	1
Bromoform	ND		1.0		ug/L			01/26/16 01:36	1
Bromomethane	ND		1.0		ug/L			01/26/16 01:36	1
2-Butanone (MEK)	ND		50		ug/L			01/26/16 01:36	1
n-Butylbenzene	ND		1.0		ug/L			01/26/16 01:36	1
sec-Butylbenzene	ND		1.0		ug/L			01/26/16 01:36	1
tert-Butylbenzene	ND		1.0		ug/L			01/26/16 01:36	1
Carbon disulfide	ND		5.0		ug/L			01/26/16 01:36	1
Carbon tetrachloride	ND		0.50		ug/L			01/26/16 01:36	1
Chlorobenzene	ND		0.50		ug/L			01/26/16 01:36	1
Chloroethane	ND		1.0		ug/L			01/26/16 01:36	1
Chloroform	ND		1.0		ug/L			01/26/16 01:36	1
Chloromethane	ND		1.0		ug/L			01/26/16 01:36	1
2-Chlorotoluene	ND		0.50		ug/L			01/26/16 01:36	1
4-Chlorotoluene	ND		0.50		ug/L			01/26/16 01:36	1
Chlorodibromomethane	ND		0.50		ug/L			01/26/16 01:36	1
1,2-Dichlorobenzene	ND		0.50		ug/L			01/26/16 01:36	1
1,3-Dichlorobenzene	ND		0.50		ug/L			01/26/16 01:36	1
1,4-Dichlorobenzene	ND		0.50		ug/L			01/26/16 01:36	1
1,3-Dichloropropane	ND		1.0		ug/L			01/26/16 01:36	1
1,1-Dichloropropene	ND		0.50		ug/L			01/26/16 01:36	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			01/26/16 01:36	1
Ethylene Dibromide	ND		0.50		ug/L			01/26/16 01:36	1
Dibromomethane	ND		0.50		ug/L			01/26/16 01:36	1
Dichlorodifluoromethane	ND *		0.50		ug/L			01/26/16 01:36	1
1,1-Dichloroethane	ND		0.50		ug/L			01/26/16 01:36	1
1,2-Dichloroethane	ND		0.50		ug/L			01/26/16 01:36	1
1,1-Dichloroethene	ND		0.50		ug/L			01/26/16 01:36	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			01/26/16 01:36	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			01/26/16 01:36	1
1,2-Dichloropropane	ND		0.50		ug/L			01/26/16 01:36	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			01/26/16 01:36	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			01/26/16 01:36	1
Ethylbenzene	ND		0.50		ug/L			01/26/16 01:36	1
Hexachlorobutadiene	ND		1.0		ug/L			01/26/16 01:36	1
2-Hexanone	ND		50		ug/L			01/26/16 01:36	1
Isopropylbenzene	ND		0.50		ug/L			01/26/16 01:36	1
4-Isopropyltoluene	ND		1.0		ug/L			01/26/16 01:36	1
Methylene Chloride	ND		5.0		ug/L			01/26/16 01:36	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			01/26/16 01:36	1
Naphthalene	ND		1.0		ug/L			01/26/16 01:36	1
N-Propylbenzene	ND		1.0		ug/L			01/26/16 01:36	1
Styrene	ND		0.50		ug/L			01/26/16 01:36	1
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			01/26/16 01:36	1

TestAmerica Pleasanton

# Client Sample Results

Client: Geologica Inc  
Project/Site: Pin High

TestAmerica Job ID: 720-69933-1

**Client Sample ID: TRIP BLANK**

**Lab Sample ID: 720-69933-7**

**Date Collected: 01/22/16 12:30**

**Matrix: Water**

**Date Received: 01/22/16 17:10**

**Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			01/26/16 01:36	1
Tetrachloroethene	ND		0.50		ug/L			01/26/16 01:36	1
Toluene	ND		0.50		ug/L			01/26/16 01:36	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			01/26/16 01:36	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			01/26/16 01:36	1
1,1,1-Trichloroethane	ND		0.50		ug/L			01/26/16 01:36	1
1,1,2-Trichloroethane	ND		0.50		ug/L			01/26/16 01:36	1
Trichloroethene	ND		0.50		ug/L			01/26/16 01:36	1
Trichlorofluoromethane	ND *		1.0		ug/L			01/26/16 01:36	1
1,2,3-Trichloropropane	ND		0.50		ug/L			01/26/16 01:36	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			01/26/16 01:36	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			01/26/16 01:36	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			01/26/16 01:36	1
Vinyl acetate	ND		10		ug/L			01/26/16 01:36	1
Vinyl chloride	ND		0.50		ug/L			01/26/16 01:36	1
Xylenes, Total	ND		1.0		ug/L			01/26/16 01:36	1
2,2-Dichloropropane	ND		0.50		ug/L			01/26/16 01:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	99		67 - 130		01/26/16 01:36	1
1,2-Dichloroethane-d4 (Surr)	114		72 - 130		01/26/16 01:36	1
Toluene-d8 (Surr)	98		70 - 130		01/26/16 01:36	1



# Client Sample Results

Client: Geologica Inc  
Project/Site: Pin High

TestAmerica Job ID: 720-69933-1

**Client Sample ID: GP-1-3.5-4'**

**Lab Sample ID: 720-69933-8**

**Date Collected: 01/21/16 10:25**

**Matrix: Solid**

**Date Received: 01/22/16 17:10**

**Percent Solids: 86.9**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		5.7		ug/Kg	☼	01/27/16 18:59	01/28/16 14:59	1
Acetone	ND		57		ug/Kg	☼	01/27/16 18:59	01/28/16 14:59	1
Benzene	ND		5.7		ug/Kg	☼	01/27/16 18:59	01/28/16 14:59	1
Dichlorobromomethane	ND		5.7		ug/Kg	☼	01/27/16 18:59	01/28/16 14:59	1
Bromobenzene	ND		5.7		ug/Kg	☼	01/27/16 18:59	01/28/16 14:59	1
Chlorobromomethane	ND		23		ug/Kg	☼	01/27/16 18:59	01/28/16 14:59	1
Bromoform	ND		5.7		ug/Kg	☼	01/27/16 18:59	01/28/16 14:59	1
Bromomethane	ND		11		ug/Kg	☼	01/27/16 18:59	01/28/16 14:59	1
2-Butanone (MEK)	ND		57		ug/Kg	☼	01/27/16 18:59	01/28/16 14:59	1
n-Butylbenzene	ND		5.7		ug/Kg	☼	01/27/16 18:59	01/28/16 14:59	1
sec-Butylbenzene	ND		5.7		ug/Kg	☼	01/27/16 18:59	01/28/16 14:59	1
tert-Butylbenzene	ND		5.7		ug/Kg	☼	01/27/16 18:59	01/28/16 14:59	1
Carbon disulfide	ND		5.7		ug/Kg	☼	01/27/16 18:59	01/28/16 14:59	1
Carbon tetrachloride	ND		5.7		ug/Kg	☼	01/27/16 18:59	01/28/16 14:59	1
Chlorobenzene	ND		5.7		ug/Kg	☼	01/27/16 18:59	01/28/16 14:59	1
Chloroethane	ND		11		ug/Kg	☼	01/27/16 18:59	01/28/16 14:59	1
Chloroform	ND		5.7		ug/Kg	☼	01/27/16 18:59	01/28/16 14:59	1
Chloromethane	ND		11		ug/Kg	☼	01/27/16 18:59	01/28/16 14:59	1
2-Chlorotoluene	ND		5.7		ug/Kg	☼	01/27/16 18:59	01/28/16 14:59	1
4-Chlorotoluene	ND		5.7		ug/Kg	☼	01/27/16 18:59	01/28/16 14:59	1
Chlorodibromomethane	ND		5.7		ug/Kg	☼	01/27/16 18:59	01/28/16 14:59	1
1,2-Dichlorobenzene	ND		5.7		ug/Kg	☼	01/27/16 18:59	01/28/16 14:59	1
1,3-Dichlorobenzene	ND		5.7		ug/Kg	☼	01/27/16 18:59	01/28/16 14:59	1
1,4-Dichlorobenzene	ND		5.7		ug/Kg	☼	01/27/16 18:59	01/28/16 14:59	1
1,3-Dichloropropane	ND		5.7		ug/Kg	☼	01/27/16 18:59	01/28/16 14:59	1
1,1-Dichloropropane	ND		5.7		ug/Kg	☼	01/27/16 18:59	01/28/16 14:59	1
1,2-Dibromo-3-Chloropropane	ND		11		ug/Kg	☼	01/27/16 18:59	01/28/16 14:59	1
Ethylene Dibromide	ND		5.7		ug/Kg	☼	01/27/16 18:59	01/28/16 14:59	1
Dibromomethane	ND		11		ug/Kg	☼	01/27/16 18:59	01/28/16 14:59	1
Dichlorodifluoromethane	ND		11		ug/Kg	☼	01/27/16 18:59	01/28/16 14:59	1
1,1-Dichloroethane	ND		5.7		ug/Kg	☼	01/27/16 18:59	01/28/16 14:59	1
1,2-Dichloroethane	ND		5.7		ug/Kg	☼	01/27/16 18:59	01/28/16 14:59	1
1,1-Dichloroethene	ND		5.7		ug/Kg	☼	01/27/16 18:59	01/28/16 14:59	1
cis-1,2-Dichloroethene	ND		5.7		ug/Kg	☼	01/27/16 18:59	01/28/16 14:59	1
trans-1,2-Dichloroethene	ND		5.7		ug/Kg	☼	01/27/16 18:59	01/28/16 14:59	1
1,2-Dichloropropane	ND		5.7		ug/Kg	☼	01/27/16 18:59	01/28/16 14:59	1
cis-1,3-Dichloropropene	ND		5.7		ug/Kg	☼	01/27/16 18:59	01/28/16 14:59	1
trans-1,3-Dichloropropene	ND		5.7		ug/Kg	☼	01/27/16 18:59	01/28/16 14:59	1
Ethylbenzene	ND		5.7		ug/Kg	☼	01/27/16 18:59	01/28/16 14:59	1
Hexachlorobutadiene	ND		5.7		ug/Kg	☼	01/27/16 18:59	01/28/16 14:59	1
2-Hexanone	ND		57		ug/Kg	☼	01/27/16 18:59	01/28/16 14:59	1
Isopropylbenzene	ND		5.7		ug/Kg	☼	01/27/16 18:59	01/28/16 14:59	1
4-Isopropyltoluene	ND		5.7		ug/Kg	☼	01/27/16 18:59	01/28/16 14:59	1
Methylene Chloride	ND		11		ug/Kg	☼	01/27/16 18:59	01/28/16 14:59	1
4-Methyl-2-pentanone (MIBK)	ND		57		ug/Kg	☼	01/27/16 18:59	01/28/16 14:59	1
Naphthalene	ND		11		ug/Kg	☼	01/27/16 18:59	01/28/16 14:59	1
N-Propylbenzene	ND		5.7		ug/Kg	☼	01/27/16 18:59	01/28/16 14:59	1
Styrene	ND		5.7		ug/Kg	☼	01/27/16 18:59	01/28/16 14:59	1
1,1,1,2-Tetrachloroethane	ND		5.7		ug/Kg	☼	01/27/16 18:59	01/28/16 14:59	1

TestAmerica Pleasanton

# Client Sample Results

Client: Geologica Inc  
Project/Site: Pin High

TestAmerica Job ID: 720-69933-1

**Client Sample ID: GP-1-3.5-4'**

**Lab Sample ID: 720-69933-8**

**Date Collected: 01/21/16 10:25**

**Matrix: Solid**

**Date Received: 01/22/16 17:10**

**Percent Solids: 86.9**

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		5.7		ug/Kg	☼	01/27/16 18:59	01/28/16 14:59	1
Tetrachloroethene	ND		5.7		ug/Kg	☼	01/27/16 18:59	01/28/16 14:59	1
Toluene	ND		5.7		ug/Kg	☼	01/27/16 18:59	01/28/16 14:59	1
1,2,3-Trichlorobenzene	ND		5.7		ug/Kg	☼	01/27/16 18:59	01/28/16 14:59	1
1,2,4-Trichlorobenzene	ND		5.7		ug/Kg	☼	01/27/16 18:59	01/28/16 14:59	1
1,1,1-Trichloroethane	ND		5.7		ug/Kg	☼	01/27/16 18:59	01/28/16 14:59	1
1,1,2-Trichloroethane	ND		5.7		ug/Kg	☼	01/27/16 18:59	01/28/16 14:59	1
Trichloroethene	ND		5.7		ug/Kg	☼	01/27/16 18:59	01/28/16 14:59	1
Trichlorofluoromethane	ND		5.7		ug/Kg	☼	01/27/16 18:59	01/28/16 14:59	1
1,2,3-Trichloropropane	ND		5.7		ug/Kg	☼	01/27/16 18:59	01/28/16 14:59	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.7		ug/Kg	☼	01/27/16 18:59	01/28/16 14:59	1
1,2,4-Trimethylbenzene	ND		5.7		ug/Kg	☼	01/27/16 18:59	01/28/16 14:59	1
1,3,5-Trimethylbenzene	ND		5.7		ug/Kg	☼	01/27/16 18:59	01/28/16 14:59	1
Vinyl acetate	ND		23		ug/Kg	☼	01/27/16 18:59	01/28/16 14:59	1
Vinyl chloride	ND		5.7		ug/Kg	☼	01/27/16 18:59	01/28/16 14:59	1
Xylenes, Total	ND		11		ug/Kg	☼	01/27/16 18:59	01/28/16 14:59	1
2,2-Dichloropropane	ND		5.7		ug/Kg	☼	01/27/16 18:59	01/28/16 14:59	1
Gasoline Range Organics (GRO) -C5-C12	ND		290		ug/Kg	☼	01/27/16 18:59	01/28/16 14:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	87		45 - 131	01/27/16 18:59	01/28/16 14:59	1
1,2-Dichloroethane-d4 (Surr)	102		60 - 140	01/27/16 18:59	01/28/16 14:59	1
Toluene-d8 (Surr)	98		58 - 140	01/27/16 18:59	01/28/16 14:59	1

## Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Diesel Range Organics [C10-C28]</b>	<b>46</b>		1.1		mg/Kg	☼	01/27/16 20:37	01/29/16 02:34	1
<b>Motor Oil Range Organics [C24-C36]</b>	<b>160</b>		57		mg/Kg	☼	01/27/16 20:37	01/29/16 02:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Capric Acid (Surr)	0.4		0 - 1	01/27/16 20:37	01/29/16 02:34	1
p-Terphenyl	85		38 - 148	01/27/16 20:37	01/29/16 02:34	1

## Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		2.3		ug/Kg	☼	01/27/16 15:48	01/28/16 16:29	1
Dieldrin	ND		2.3		ug/Kg	☼	01/27/16 15:48	01/28/16 16:29	1
Endrin aldehyde	ND		2.3		ug/Kg	☼	01/27/16 15:48	01/28/16 16:29	1
Endrin	ND		2.3		ug/Kg	☼	01/27/16 15:48	01/28/16 16:29	1
Endrin ketone	ND		2.3		ug/Kg	☼	01/27/16 15:48	01/28/16 16:29	1
Heptachlor	ND		2.3		ug/Kg	☼	01/27/16 15:48	01/28/16 16:29	1
Heptachlor epoxide	ND		2.3		ug/Kg	☼	01/27/16 15:48	01/28/16 16:29	1
4,4'-DDT	ND		2.3		ug/Kg	☼	01/27/16 15:48	01/28/16 16:29	1
<b>4,4'-DDE</b>	<b>28</b>		2.3		ug/Kg	☼	01/27/16 15:48	01/28/16 16:29	1
<b>4,4'-DDD</b>	<b>4.6</b>		2.3		ug/Kg	☼	01/27/16 15:48	01/28/16 16:29	1
Endosulfan I	ND		2.3		ug/Kg	☼	01/27/16 15:48	01/28/16 16:29	1
Endosulfan II	ND		2.3		ug/Kg	☼	01/27/16 15:48	01/28/16 16:29	1
alpha-BHC	ND		2.3		ug/Kg	☼	01/27/16 15:48	01/28/16 16:29	1
beta-BHC	ND		2.3		ug/Kg	☼	01/27/16 15:48	01/28/16 16:29	1

TestAmerica Pleasanton

# Client Sample Results

Client: Geologica Inc  
Project/Site: Pin High

TestAmerica Job ID: 720-69933-1

**Client Sample ID: GP-1-3.5-4'**

**Lab Sample ID: 720-69933-8**

**Date Collected: 01/21/16 10:25**

**Matrix: Solid**

**Date Received: 01/22/16 17:10**

**Percent Solids: 86.9**

## Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
gamma-BHC (Lindane)	ND		2.3		ug/Kg	☼	01/27/16 15:48	01/28/16 16:29	1
delta-BHC	ND		2.3		ug/Kg	☼	01/27/16 15:48	01/28/16 16:29	1
Endosulfan sulfate	ND		2.3		ug/Kg	☼	01/27/16 15:48	01/28/16 16:29	1
Methoxychlor	ND		2.3		ug/Kg	☼	01/27/16 15:48	01/28/16 16:29	1
Toxaphene	ND		46		ug/Kg	☼	01/27/16 15:48	01/28/16 16:29	1
Chlordane (technical)	ND		46		ug/Kg	☼	01/27/16 15:48	01/28/16 16:29	1
alpha-Chlordane	ND		2.3		ug/Kg	☼	01/27/16 15:48	01/28/16 16:29	1
gamma-Chlordane	ND		2.3		ug/Kg	☼	01/27/16 15:48	01/28/16 16:29	1
Hexachlorobenzene	ND		2.3		ug/Kg	☼	01/27/16 15:48	01/28/16 16:29	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Tetrachloro-m-xylene	99		57 - 122				01/27/16 15:48	01/28/16 16:29	1
DCB Decachlorobiphenyl	101		21 - 136				01/27/16 15:48	01/28/16 16:29	1

## Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		57		ug/Kg	☼	01/27/16 15:59	01/28/16 17:15	1
PCB-1221	ND		57		ug/Kg	☼	01/27/16 15:59	01/28/16 17:15	1
PCB-1232	ND		57		ug/Kg	☼	01/27/16 15:59	01/28/16 17:15	1
PCB-1242	ND		57		ug/Kg	☼	01/27/16 15:59	01/28/16 17:15	1
PCB-1248	ND		57		ug/Kg	☼	01/27/16 15:59	01/28/16 17:15	1
PCB-1254	ND		57		ug/Kg	☼	01/27/16 15:59	01/28/16 17:15	1
PCB-1260	ND		57		ug/Kg	☼	01/27/16 15:59	01/28/16 17:15	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Tetrachloro-m-xylene	81		45 - 132				01/27/16 15:59	01/28/16 17:15	1
DCB Decachlorobiphenyl	68		42 - 146				01/27/16 15:59	01/28/16 17:15	1

## Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.5	F1	1.9		mg/Kg	☼	01/26/16 14:13	01/27/16 21:42	4
Arsenic	8.7		3.8		mg/Kg	☼	01/26/16 14:13	01/27/16 21:42	4
Barium	160	F1 F2	1.9		mg/Kg	☼	01/26/16 14:13	01/27/16 21:42	4
Beryllium	0.54		0.38		mg/Kg	☼	01/26/16 14:13	01/27/16 21:42	4
Cadmium	ND		0.47		mg/Kg	☼	01/26/16 14:13	01/27/16 21:42	4
Chromium	73	F1	1.9		mg/Kg	☼	01/26/16 14:13	01/27/16 21:42	4
Cobalt	17		0.75		mg/Kg	☼	01/26/16 14:13	01/27/16 21:42	4
Copper	36		5.7		mg/Kg	☼	01/26/16 14:13	01/27/16 21:42	4
Lead	14		1.9		mg/Kg	☼	01/26/16 14:13	01/27/16 21:42	4
Molybdenum	2.7		1.9		mg/Kg	☼	01/26/16 14:13	01/27/16 21:42	4
Nickel	94	F1	1.9		mg/Kg	☼	01/26/16 14:13	01/27/16 21:42	4
Selenium	ND		3.8		mg/Kg	☼	01/26/16 14:13	01/27/16 21:42	4
Silver	ND		0.94		mg/Kg	☼	01/26/16 14:13	01/27/16 21:42	4
Thallium	2.1		1.9		mg/Kg	☼	01/26/16 14:13	01/27/16 21:42	4
Vanadium	41		1.9		mg/Kg	☼	01/26/16 14:13	01/27/16 21:42	4
Zinc	58		5.7		mg/Kg	☼	01/26/16 14:13	01/27/16 21:42	4

## Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.63		0.010		mg/Kg	☼	01/26/16 17:30	01/27/16 17:00	1

TestAmerica Pleasanton

# Client Sample Results

Client: Geologica Inc  
Project/Site: Pin High

TestAmerica Job ID: 720-69933-1

**Client Sample ID: GP-1-3.5-4'**

**Lab Sample ID: 720-69933-8**

**Date Collected: 01/21/16 10:25**

**Matrix: Solid**

**Date Received: 01/22/16 17:10**

**Percent Solids: 86.9**

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	13		0.10		%			01/27/16 09:39	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

# Client Sample Results

Client: Geologica Inc  
Project/Site: Pin High

TestAmerica Job ID: 720-69933-1

**Client Sample ID: GP-1-7.5-8'**

**Lab Sample ID: 720-69933-9**

**Date Collected: 01/21/16 10:26**

**Matrix: Solid**

**Date Received: 01/22/16 17:10**

**Percent Solids: 86.3**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		5.5		ug/Kg	☼	01/25/16 19:58	01/27/16 04:39	1
<b>Acetone</b>	<b>110</b>		55		ug/Kg	☼	01/25/16 19:58	01/27/16 04:39	1
Benzene	ND		5.5		ug/Kg	☼	01/25/16 19:58	01/27/16 04:39	1
Dichlorobromomethane	ND		5.5		ug/Kg	☼	01/25/16 19:58	01/27/16 04:39	1
Bromobenzene	ND		5.5		ug/Kg	☼	01/25/16 19:58	01/27/16 04:39	1
Chlorobromomethane	ND		22		ug/Kg	☼	01/25/16 19:58	01/27/16 04:39	1
Bromoform	ND		5.5		ug/Kg	☼	01/25/16 19:58	01/27/16 04:39	1
Bromomethane	ND		11		ug/Kg	☼	01/25/16 19:58	01/27/16 04:39	1
2-Butanone (MEK)	ND		55		ug/Kg	☼	01/25/16 19:58	01/27/16 04:39	1
n-Butylbenzene	ND		5.5		ug/Kg	☼	01/25/16 19:58	01/27/16 04:39	1
sec-Butylbenzene	ND		5.5		ug/Kg	☼	01/25/16 19:58	01/27/16 04:39	1
tert-Butylbenzene	ND		5.5		ug/Kg	☼	01/25/16 19:58	01/27/16 04:39	1
Carbon disulfide	ND		5.5		ug/Kg	☼	01/25/16 19:58	01/27/16 04:39	1
Carbon tetrachloride	ND		5.5		ug/Kg	☼	01/25/16 19:58	01/27/16 04:39	1
Chlorobenzene	ND		5.5		ug/Kg	☼	01/25/16 19:58	01/27/16 04:39	1
Chloroethane	ND		11		ug/Kg	☼	01/25/16 19:58	01/27/16 04:39	1
Chloroform	ND		5.5		ug/Kg	☼	01/25/16 19:58	01/27/16 04:39	1
Chloromethane	ND		11		ug/Kg	☼	01/25/16 19:58	01/27/16 04:39	1
2-Chlorotoluene	ND		5.5		ug/Kg	☼	01/25/16 19:58	01/27/16 04:39	1
4-Chlorotoluene	ND		5.5		ug/Kg	☼	01/25/16 19:58	01/27/16 04:39	1
Chlorodibromomethane	ND		5.5		ug/Kg	☼	01/25/16 19:58	01/27/16 04:39	1
1,2-Dichlorobenzene	ND		5.5		ug/Kg	☼	01/25/16 19:58	01/27/16 04:39	1
1,3-Dichlorobenzene	ND		5.5		ug/Kg	☼	01/25/16 19:58	01/27/16 04:39	1
1,4-Dichlorobenzene	ND		5.5		ug/Kg	☼	01/25/16 19:58	01/27/16 04:39	1
1,3-Dichloropropane	ND		5.5		ug/Kg	☼	01/25/16 19:58	01/27/16 04:39	1
1,1-Dichloropropane	ND		5.5		ug/Kg	☼	01/25/16 19:58	01/27/16 04:39	1
1,2-Dibromo-3-Chloropropane	ND		11		ug/Kg	☼	01/25/16 19:58	01/27/16 04:39	1
Ethylene Dibromide	ND		5.5		ug/Kg	☼	01/25/16 19:58	01/27/16 04:39	1
Dibromomethane	ND		11		ug/Kg	☼	01/25/16 19:58	01/27/16 04:39	1
Dichlorodifluoromethane	ND		11		ug/Kg	☼	01/25/16 19:58	01/27/16 04:39	1
1,1-Dichloroethane	ND		5.5		ug/Kg	☼	01/25/16 19:58	01/27/16 04:39	1
1,2-Dichloroethane	ND		5.5		ug/Kg	☼	01/25/16 19:58	01/27/16 04:39	1
1,1-Dichloroethene	ND		5.5		ug/Kg	☼	01/25/16 19:58	01/27/16 04:39	1
cis-1,2-Dichloroethene	ND		5.5		ug/Kg	☼	01/25/16 19:58	01/27/16 04:39	1
trans-1,2-Dichloroethene	ND		5.5		ug/Kg	☼	01/25/16 19:58	01/27/16 04:39	1
1,2-Dichloropropane	ND		5.5		ug/Kg	☼	01/25/16 19:58	01/27/16 04:39	1
cis-1,3-Dichloropropene	ND		5.5		ug/Kg	☼	01/25/16 19:58	01/27/16 04:39	1
trans-1,3-Dichloropropene	ND		5.5		ug/Kg	☼	01/25/16 19:58	01/27/16 04:39	1
Ethylbenzene	ND		5.5		ug/Kg	☼	01/25/16 19:58	01/27/16 04:39	1
Hexachlorobutadiene	ND		5.5		ug/Kg	☼	01/25/16 19:58	01/27/16 04:39	1
2-Hexanone	ND		55		ug/Kg	☼	01/25/16 19:58	01/27/16 04:39	1
Isopropylbenzene	ND		5.5		ug/Kg	☼	01/25/16 19:58	01/27/16 04:39	1
4-Isopropyltoluene	ND		5.5		ug/Kg	☼	01/25/16 19:58	01/27/16 04:39	1
Methylene Chloride	ND		11		ug/Kg	☼	01/25/16 19:58	01/27/16 04:39	1
4-Methyl-2-pentanone (MIBK)	ND		55		ug/Kg	☼	01/25/16 19:58	01/27/16 04:39	1
Naphthalene	ND		11		ug/Kg	☼	01/25/16 19:58	01/27/16 04:39	1
N-Propylbenzene	ND		5.5		ug/Kg	☼	01/25/16 19:58	01/27/16 04:39	1
Styrene	ND		5.5		ug/Kg	☼	01/25/16 19:58	01/27/16 04:39	1
1,1,1,2-Tetrachloroethane	ND		5.5		ug/Kg	☼	01/25/16 19:58	01/27/16 04:39	1

TestAmerica Pleasanton

# Client Sample Results

Client: Geologica Inc  
Project/Site: Pin High

TestAmerica Job ID: 720-69933-1

**Client Sample ID: GP-1-7.5-8'**

**Lab Sample ID: 720-69933-9**

**Date Collected: 01/21/16 10:26**

**Matrix: Solid**

**Date Received: 01/22/16 17:10**

**Percent Solids: 86.3**

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		5.5		ug/Kg	☼	01/25/16 19:58	01/27/16 04:39	1
Tetrachloroethene	ND		5.5		ug/Kg	☼	01/25/16 19:58	01/27/16 04:39	1
Toluene	ND		5.5		ug/Kg	☼	01/25/16 19:58	01/27/16 04:39	1
1,2,3-Trichlorobenzene	ND		5.5		ug/Kg	☼	01/25/16 19:58	01/27/16 04:39	1
1,2,4-Trichlorobenzene	ND		5.5		ug/Kg	☼	01/25/16 19:58	01/27/16 04:39	1
1,1,1-Trichloroethane	ND		5.5		ug/Kg	☼	01/25/16 19:58	01/27/16 04:39	1
1,1,2-Trichloroethane	ND		5.5		ug/Kg	☼	01/25/16 19:58	01/27/16 04:39	1
Trichloroethene	ND		5.5		ug/Kg	☼	01/25/16 19:58	01/27/16 04:39	1
Trichlorofluoromethane	ND		5.5		ug/Kg	☼	01/25/16 19:58	01/27/16 04:39	1
1,2,3-Trichloropropane	ND		5.5		ug/Kg	☼	01/25/16 19:58	01/27/16 04:39	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.5		ug/Kg	☼	01/25/16 19:58	01/27/16 04:39	1
1,2,4-Trimethylbenzene	ND		5.5		ug/Kg	☼	01/25/16 19:58	01/27/16 04:39	1
1,3,5-Trimethylbenzene	ND		5.5		ug/Kg	☼	01/25/16 19:58	01/27/16 04:39	1
Vinyl acetate	ND		22		ug/Kg	☼	01/25/16 19:58	01/27/16 04:39	1
Vinyl chloride	ND		5.5		ug/Kg	☼	01/25/16 19:58	01/27/16 04:39	1
Xylenes, Total	ND		11		ug/Kg	☼	01/25/16 19:58	01/27/16 04:39	1
2,2-Dichloropropane	ND		5.5		ug/Kg	☼	01/25/16 19:58	01/27/16 04:39	1
Gasoline Range Organics (GRO) -C5-C12	ND		280		ug/Kg	☼	01/25/16 19:58	01/27/16 04:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	83		45 - 131	01/25/16 19:58	01/27/16 04:39	1
1,2-Dichloroethane-d4 (Surr)	112		60 - 140	01/25/16 19:58	01/27/16 04:39	1
Toluene-d8 (Surr)	95		58 - 140	01/25/16 19:58	01/27/16 04:39	1

## Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	390		12		mg/Kg	☼	01/27/16 20:37	01/28/16 22:58	10
Motor Oil Range Organics [C24-C36]	1500		580		mg/Kg	☼	01/27/16 20:37	01/28/16 22:58	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Capric Acid (Surr)	0		0 - 1	01/27/16 20:37	01/28/16 22:58	10
p-Terphenyl	0	X D	38 - 148	01/27/16 20:37	01/28/16 22:58	10

## Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		4.6		ug/Kg	☼	01/27/16 15:48	01/28/16 18:44	2
Dieldrin	6.4	p	4.6		ug/Kg	☼	01/27/16 15:48	01/28/16 18:44	2
Endrin aldehyde	ND		4.6		ug/Kg	☼	01/27/16 15:48	01/28/16 18:44	2
Endrin	ND		4.6		ug/Kg	☼	01/27/16 15:48	01/28/16 18:44	2
Endrin ketone	ND		4.6		ug/Kg	☼	01/27/16 15:48	01/28/16 18:44	2
Heptachlor	ND		4.6		ug/Kg	☼	01/27/16 15:48	01/28/16 18:44	2
Heptachlor epoxide	ND		4.6		ug/Kg	☼	01/27/16 15:48	01/28/16 18:44	2
4,4'-DDT	ND		4.6		ug/Kg	☼	01/27/16 15:48	01/28/16 18:44	2
4,4'-DDE	57		4.6		ug/Kg	☼	01/27/16 15:48	01/28/16 18:44	2
4,4'-DDD	31		4.6		ug/Kg	☼	01/27/16 15:48	01/28/16 18:44	2
Endosulfan I	ND		4.6		ug/Kg	☼	01/27/16 15:48	01/28/16 18:44	2
Endosulfan II	ND		4.6		ug/Kg	☼	01/27/16 15:48	01/28/16 18:44	2
alpha-BHC	ND		4.6		ug/Kg	☼	01/27/16 15:48	01/28/16 18:44	2
beta-BHC	ND		4.6		ug/Kg	☼	01/27/16 15:48	01/28/16 18:44	2

TestAmerica Pleasanton



# Client Sample Results

Client: Geologica Inc  
Project/Site: Pin High

TestAmerica Job ID: 720-69933-1

**Client Sample ID: GP-1-7.5-8'**

**Lab Sample ID: 720-69933-9**

Date Collected: 01/21/16 10:26

Matrix: Solid

Date Received: 01/22/16 17:10

Percent Solids: 86.3

## Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
gamma-BHC (Lindane)	ND		4.6		ug/Kg	☼	01/27/16 15:48	01/28/16 18:44	2
delta-BHC	ND		4.6		ug/Kg	☼	01/27/16 15:48	01/28/16 18:44	2
Endosulfan sulfate	ND		4.6		ug/Kg	☼	01/27/16 15:48	01/28/16 18:44	2
Methoxychlor	ND		4.6		ug/Kg	☼	01/27/16 15:48	01/28/16 18:44	2
Toxaphene	ND		91		ug/Kg	☼	01/27/16 15:48	01/28/16 18:44	2
Chlordane (technical)	ND		91		ug/Kg	☼	01/27/16 15:48	01/28/16 18:44	2
<b>alpha-Chlordane</b>	<b>11</b>	<b>p</b>	4.6		ug/Kg	☼	01/27/16 15:48	01/28/16 18:44	2
<b>gamma-Chlordane</b>	<b>14</b>		4.6		ug/Kg	☼	01/27/16 15:48	01/28/16 18:44	2
Hexachlorobenzene	ND		4.6		ug/Kg	☼	01/27/16 15:48	01/28/16 18:44	2
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>Tetrachloro-m-xylene</i>	86		57 - 122				01/27/16 15:48	01/28/16 18:44	2
<i>DCB Decachlorobiphenyl</i>	92		21 - 136				01/27/16 15:48	01/28/16 18:44	2

## Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		57		ug/Kg	☼	01/27/16 15:59	01/28/16 16:58	1
PCB-1221	ND		57		ug/Kg	☼	01/27/16 15:59	01/28/16 16:58	1
PCB-1232	ND		57		ug/Kg	☼	01/27/16 15:59	01/28/16 16:58	1
PCB-1242	ND		57		ug/Kg	☼	01/27/16 15:59	01/28/16 16:58	1
PCB-1248	ND		57		ug/Kg	☼	01/27/16 15:59	01/28/16 16:58	1
PCB-1254	ND		57		ug/Kg	☼	01/27/16 15:59	01/28/16 16:58	1
PCB-1260	ND		57		ug/Kg	☼	01/27/16 15:59	01/28/16 16:58	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>Tetrachloro-m-xylene</i>	88		45 - 132				01/27/16 15:59	01/28/16 16:58	1
<i>DCB Decachlorobiphenyl</i>	76		42 - 146				01/27/16 15:59	01/28/16 16:58	1

## Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.57		mg/Kg	☼	01/26/16 14:13	01/28/16 16:02	1
<b>Arsenic</b>	<b>7.8</b>		4.5		mg/Kg	☼	01/26/16 14:13	01/27/16 21:47	4
<b>Barium</b>	<b>180</b>		2.3		mg/Kg	☼	01/26/16 14:13	01/27/16 21:47	4
<b>Beryllium</b>	<b>0.18</b>		0.11		mg/Kg	☼	01/26/16 14:13	01/28/16 16:02	1
<b>Cadmium</b>	<b>0.15</b>		0.14		mg/Kg	☼	01/26/16 14:13	01/28/16 16:02	1
<b>Chromium</b>	<b>86</b>		2.3		mg/Kg	☼	01/26/16 14:13	01/27/16 21:47	4
<b>Cobalt</b>	<b>18</b>		0.91		mg/Kg	☼	01/26/16 14:13	01/27/16 21:47	4
<b>Copper</b>	<b>41</b>		6.8		mg/Kg	☼	01/26/16 14:13	01/27/16 21:47	4
<b>Lead</b>	<b>42</b>		2.3		mg/Kg	☼	01/26/16 14:13	01/27/16 21:47	4
Molybdenum	ND		0.57		mg/Kg	☼	01/26/16 14:13	01/28/16 16:02	1
<b>Nickel</b>	<b>120</b>		2.3		mg/Kg	☼	01/26/16 14:13	01/27/16 21:47	4
Selenium	ND		1.1		mg/Kg	☼	01/26/16 14:13	01/28/16 16:02	1
Silver	ND		0.28		mg/Kg	☼	01/26/16 14:13	01/28/16 16:02	1
Thallium	ND		0.57		mg/Kg	☼	01/26/16 14:13	01/28/16 16:02	1
<b>Vanadium</b>	<b>61</b>		2.3		mg/Kg	☼	01/26/16 14:13	01/27/16 21:47	4
<b>Zinc</b>	<b>79</b>		6.8		mg/Kg	☼	01/26/16 14:13	01/27/16 21:47	4

## Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.30</b>		0.011		mg/Kg	☼	01/26/16 17:30	01/27/16 17:02	1

TestAmerica Pleasanton

# Client Sample Results

Client: Geologica Inc  
Project/Site: Pin High

TestAmerica Job ID: 720-69933-1

**Client Sample ID: GP-1-7.5-8'**

**Lab Sample ID: 720-69933-9**

**Date Collected: 01/21/16 10:26**

**Matrix: Solid**

**Date Received: 01/22/16 17:10**

**Percent Solids: 86.3**

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	14		0.10		%			01/27/16 09:39	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14



# Client Sample Results

Client: Geologica Inc  
Project/Site: Pin High

TestAmerica Job ID: 720-69933-1

**Client Sample ID: GP-2-3.5-4'**

**Lab Sample ID: 720-69933-12**

**Date Collected: 01/21/16 11:40**

**Matrix: Solid**

**Date Received: 01/22/16 17:10**

**Percent Solids: 73.7**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		6.4		ug/Kg	☼	01/25/16 19:58	01/27/16 12:37	1
Acetone	ND		64		ug/Kg	☼	01/25/16 19:58	01/27/16 12:37	1
Benzene	ND		6.4		ug/Kg	☼	01/25/16 19:58	01/27/16 12:37	1
Dichlorobromomethane	ND		6.4		ug/Kg	☼	01/25/16 19:58	01/27/16 12:37	1
Bromobenzene	ND		6.4		ug/Kg	☼	01/25/16 19:58	01/27/16 12:37	1
Chlorobromomethane	ND		26		ug/Kg	☼	01/25/16 19:58	01/27/16 12:37	1
Bromoform	ND		6.4		ug/Kg	☼	01/25/16 19:58	01/27/16 12:37	1
Bromomethane	ND		13		ug/Kg	☼	01/25/16 19:58	01/27/16 12:37	1
2-Butanone (MEK)	ND		64		ug/Kg	☼	01/25/16 19:58	01/27/16 12:37	1
n-Butylbenzene	ND		6.4		ug/Kg	☼	01/25/16 19:58	01/27/16 12:37	1
sec-Butylbenzene	ND		6.4		ug/Kg	☼	01/25/16 19:58	01/27/16 12:37	1
tert-Butylbenzene	ND		6.4		ug/Kg	☼	01/25/16 19:58	01/27/16 12:37	1
Carbon disulfide	ND		6.4		ug/Kg	☼	01/25/16 19:58	01/27/16 12:37	1
Carbon tetrachloride	ND		6.4		ug/Kg	☼	01/25/16 19:58	01/27/16 12:37	1
Chlorobenzene	ND		6.4		ug/Kg	☼	01/25/16 19:58	01/27/16 12:37	1
Chloroethane	ND		13		ug/Kg	☼	01/25/16 19:58	01/27/16 12:37	1
Chloroform	ND		6.4		ug/Kg	☼	01/25/16 19:58	01/27/16 12:37	1
Chloromethane	ND		13		ug/Kg	☼	01/25/16 19:58	01/27/16 12:37	1
2-Chlorotoluene	ND		6.4		ug/Kg	☼	01/25/16 19:58	01/27/16 12:37	1
4-Chlorotoluene	ND		6.4		ug/Kg	☼	01/25/16 19:58	01/27/16 12:37	1
Chlorodibromomethane	ND		6.4		ug/Kg	☼	01/25/16 19:58	01/27/16 12:37	1
1,2-Dichlorobenzene	ND		6.4		ug/Kg	☼	01/25/16 19:58	01/27/16 12:37	1
1,3-Dichlorobenzene	ND		6.4		ug/Kg	☼	01/25/16 19:58	01/27/16 12:37	1
1,4-Dichlorobenzene	ND		6.4		ug/Kg	☼	01/25/16 19:58	01/27/16 12:37	1
1,3-Dichloropropane	ND		6.4		ug/Kg	☼	01/25/16 19:58	01/27/16 12:37	1
1,1-Dichloropropane	ND		6.4		ug/Kg	☼	01/25/16 19:58	01/27/16 12:37	1
1,2-Dibromo-3-Chloropropane	ND		13		ug/Kg	☼	01/25/16 19:58	01/27/16 12:37	1
Ethylene Dibromide	ND		6.4		ug/Kg	☼	01/25/16 19:58	01/27/16 12:37	1
Dibromomethane	ND		13		ug/Kg	☼	01/25/16 19:58	01/27/16 12:37	1
Dichlorodifluoromethane	ND		13		ug/Kg	☼	01/25/16 19:58	01/27/16 12:37	1
1,1-Dichloroethane	ND		6.4		ug/Kg	☼	01/25/16 19:58	01/27/16 12:37	1
1,2-Dichloroethane	ND		6.4		ug/Kg	☼	01/25/16 19:58	01/27/16 12:37	1
1,1-Dichloroethene	ND		6.4		ug/Kg	☼	01/25/16 19:58	01/27/16 12:37	1
cis-1,2-Dichloroethene	ND		6.4		ug/Kg	☼	01/25/16 19:58	01/27/16 12:37	1
trans-1,2-Dichloroethene	ND		6.4		ug/Kg	☼	01/25/16 19:58	01/27/16 12:37	1
1,2-Dichloropropane	ND		6.4		ug/Kg	☼	01/25/16 19:58	01/27/16 12:37	1
cis-1,3-Dichloropropene	ND		6.4		ug/Kg	☼	01/25/16 19:58	01/27/16 12:37	1
trans-1,3-Dichloropropene	ND		6.4		ug/Kg	☼	01/25/16 19:58	01/27/16 12:37	1
Ethylbenzene	ND		6.4		ug/Kg	☼	01/25/16 19:58	01/27/16 12:37	1
Hexachlorobutadiene	ND		6.4		ug/Kg	☼	01/25/16 19:58	01/27/16 12:37	1
2-Hexanone	ND		64		ug/Kg	☼	01/25/16 19:58	01/27/16 12:37	1
Isopropylbenzene	ND		6.4		ug/Kg	☼	01/25/16 19:58	01/27/16 12:37	1
4-Isopropyltoluene	ND		6.4		ug/Kg	☼	01/25/16 19:58	01/27/16 12:37	1
Methylene Chloride	ND		13		ug/Kg	☼	01/25/16 19:58	01/27/16 12:37	1
4-Methyl-2-pentanone (MIBK)	ND		64		ug/Kg	☼	01/25/16 19:58	01/27/16 12:37	1
Naphthalene	ND		13		ug/Kg	☼	01/25/16 19:58	01/27/16 12:37	1
N-Propylbenzene	ND		6.4		ug/Kg	☼	01/25/16 19:58	01/27/16 12:37	1
Styrene	ND		6.4		ug/Kg	☼	01/25/16 19:58	01/27/16 12:37	1
1,1,1,2-Tetrachloroethane	ND		6.4		ug/Kg	☼	01/25/16 19:58	01/27/16 12:37	1

TestAmerica Pleasanton

# Client Sample Results

Client: Geologica Inc  
Project/Site: Pin High

TestAmerica Job ID: 720-69933-1

**Client Sample ID: GP-2-3.5-4'**

**Lab Sample ID: 720-69933-12**

**Date Collected: 01/21/16 11:40**

**Matrix: Solid**

**Date Received: 01/22/16 17:10**

**Percent Solids: 73.7**

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		6.4		ug/Kg	☼	01/25/16 19:58	01/27/16 12:37	1
Tetrachloroethene	ND		6.4		ug/Kg	☼	01/25/16 19:58	01/27/16 12:37	1
Toluene	ND		6.4		ug/Kg	☼	01/25/16 19:58	01/27/16 12:37	1
1,2,3-Trichlorobenzene	ND		6.4		ug/Kg	☼	01/25/16 19:58	01/27/16 12:37	1
1,2,4-Trichlorobenzene	ND		6.4		ug/Kg	☼	01/25/16 19:58	01/27/16 12:37	1
1,1,1-Trichloroethane	ND		6.4		ug/Kg	☼	01/25/16 19:58	01/27/16 12:37	1
1,1,2-Trichloroethane	ND		6.4		ug/Kg	☼	01/25/16 19:58	01/27/16 12:37	1
Trichloroethene	ND		6.4		ug/Kg	☼	01/25/16 19:58	01/27/16 12:37	1
Trichlorofluoromethane	ND		6.4		ug/Kg	☼	01/25/16 19:58	01/27/16 12:37	1
1,2,3-Trichloropropane	ND		6.4		ug/Kg	☼	01/25/16 19:58	01/27/16 12:37	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		6.4		ug/Kg	☼	01/25/16 19:58	01/27/16 12:37	1
1,2,4-Trimethylbenzene	ND		6.4		ug/Kg	☼	01/25/16 19:58	01/27/16 12:37	1
1,3,5-Trimethylbenzene	ND		6.4		ug/Kg	☼	01/25/16 19:58	01/27/16 12:37	1
Vinyl acetate	ND	F1	26		ug/Kg	☼	01/25/16 19:58	01/27/16 12:37	1
Vinyl chloride	ND		6.4		ug/Kg	☼	01/25/16 19:58	01/27/16 12:37	1
Xylenes, Total	ND		13		ug/Kg	☼	01/25/16 19:58	01/27/16 12:37	1
2,2-Dichloropropane	ND		6.4		ug/Kg	☼	01/25/16 19:58	01/27/16 12:37	1
Gasoline Range Organics (GRO) -C5-C12	ND		320		ug/Kg	☼	01/25/16 19:58	01/27/16 12:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	83		45 - 131	01/25/16 19:58	01/27/16 12:37	1
1,2-Dichloroethane-d4 (Surr)	99		60 - 140	01/25/16 19:58	01/27/16 12:37	1
Toluene-d8 (Surr)	98		58 - 140	01/25/16 19:58	01/27/16 12:37	1

## Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Diesel Range Organics [C10-C28]</b>	<b>17</b>		1.4		mg/Kg	☼	01/27/16 21:05	01/29/16 02:10	1
<b>Motor Oil Range Organics [C24-C36]</b>	<b>120</b>		68		mg/Kg	☼	01/27/16 21:05	01/29/16 02:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Capric Acid (Surr)	2	X	0 - 1	01/27/16 21:05	01/29/16 02:10	1
p-Terphenyl	69		38 - 148	01/27/16 21:05	01/29/16 02:10	1

## Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.61		mg/Kg	☼	01/26/16 14:13	01/28/16 16:07	1
<b>Arsenic</b>	<b>5.7</b>		4.9		mg/Kg	☼	01/26/16 14:13	01/27/16 21:52	4
<b>Barium</b>	<b>220</b>		2.4		mg/Kg	☼	01/26/16 14:13	01/27/16 21:52	4
<b>Beryllium</b>	<b>0.36</b>		0.12		mg/Kg	☼	01/26/16 14:13	01/28/16 16:07	1
<b>Cadmium</b>	<b>0.18</b>		0.15		mg/Kg	☼	01/26/16 14:13	01/28/16 16:07	1
<b>Chromium</b>	<b>60</b>		2.4		mg/Kg	☼	01/26/16 14:13	01/27/16 21:52	4
<b>Cobalt</b>	<b>12</b>		0.98		mg/Kg	☼	01/26/16 14:13	01/27/16 21:52	4
<b>Copper</b>	<b>29</b>		7.3		mg/Kg	☼	01/26/16 14:13	01/27/16 21:52	4
<b>Lead</b>	<b>31</b>		2.4		mg/Kg	☼	01/26/16 14:13	01/27/16 21:52	4
Molybdenum	ND		0.61		mg/Kg	☼	01/26/16 14:13	01/28/16 16:07	1
<b>Nickel</b>	<b>82</b>		2.4		mg/Kg	☼	01/26/16 14:13	01/27/16 21:52	4
Selenium	ND		1.2		mg/Kg	☼	01/26/16 14:13	01/28/16 16:07	1
Silver	ND		0.31		mg/Kg	☼	01/26/16 14:13	01/28/16 16:07	1
Thallium	ND		0.61		mg/Kg	☼	01/26/16 14:13	01/28/16 16:07	1

TestAmerica Pleasanton

# Client Sample Results

Client: Geologica Inc  
Project/Site: Pin High

TestAmerica Job ID: 720-69933-1

**Client Sample ID: GP-2-3.5-4'**

**Lab Sample ID: 720-69933-12**

Date Collected: 01/21/16 11:40

Matrix: Solid

Date Received: 01/22/16 17:10

Percent Solids: 73.7

**Method: 6010B - Metals (ICP) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vanadium	36		2.4		mg/Kg	☼	01/26/16 14:13	01/27/16 21:52	4
Zinc	99		7.3		mg/Kg	☼	01/26/16 14:13	01/27/16 21:52	4

**Method: 7471A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.21		0.012		mg/Kg	☼	01/26/16 17:30	01/27/16 17:04	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	26		0.10		%	-		01/27/16 09:39	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

# Client Sample Results

Client: Geologica Inc  
Project/Site: Pin High

TestAmerica Job ID: 720-69933-1

**Client Sample ID: GP-2-7.5-8'**

**Lab Sample ID: 720-69933-13**

**Date Collected: 01/21/16 11:42**

**Matrix: Solid**

**Date Received: 01/22/16 17:10**

**Percent Solids: 76.9**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		6.2		ug/Kg	☼	01/27/16 18:59	01/28/16 15:28	1
Acetone	ND		62		ug/Kg	☼	01/27/16 18:59	01/28/16 15:28	1
Benzene	ND		6.2		ug/Kg	☼	01/27/16 18:59	01/28/16 15:28	1
Dichlorobromomethane	ND		6.2		ug/Kg	☼	01/27/16 18:59	01/28/16 15:28	1
Bromobenzene	ND	*	6.2		ug/Kg	☼	01/27/16 18:59	01/28/16 15:28	1
Chlorobromomethane	ND		25		ug/Kg	☼	01/27/16 18:59	01/28/16 15:28	1
Bromoform	ND		6.2		ug/Kg	☼	01/27/16 18:59	01/28/16 15:28	1
Bromomethane	ND		12		ug/Kg	☼	01/27/16 18:59	01/28/16 15:28	1
2-Butanone (MEK)	ND		62		ug/Kg	☼	01/27/16 18:59	01/28/16 15:28	1
n-Butylbenzene	ND	*	6.2		ug/Kg	☼	01/27/16 18:59	01/28/16 15:28	1
sec-Butylbenzene	ND	*	6.2		ug/Kg	☼	01/27/16 18:59	01/28/16 15:28	1
tert-Butylbenzene	ND	*	6.2		ug/Kg	☼	01/27/16 18:59	01/28/16 15:28	1
Carbon disulfide	ND		6.2		ug/Kg	☼	01/27/16 18:59	01/28/16 15:28	1
Carbon tetrachloride	ND		6.2		ug/Kg	☼	01/27/16 18:59	01/28/16 15:28	1
Chlorobenzene	ND		6.2		ug/Kg	☼	01/27/16 18:59	01/28/16 15:28	1
Chloroethane	ND		12		ug/Kg	☼	01/27/16 18:59	01/28/16 15:28	1
Chloroform	ND		6.2		ug/Kg	☼	01/27/16 18:59	01/28/16 15:28	1
Chloromethane	ND		12		ug/Kg	☼	01/27/16 18:59	01/28/16 15:28	1
2-Chlorotoluene	ND	*	6.2		ug/Kg	☼	01/27/16 18:59	01/28/16 15:28	1
4-Chlorotoluene	ND	*	6.2		ug/Kg	☼	01/27/16 18:59	01/28/16 15:28	1
Chlorodibromomethane	ND		6.2		ug/Kg	☼	01/27/16 18:59	01/28/16 15:28	1
1,2-Dichlorobenzene	ND	*	6.2		ug/Kg	☼	01/27/16 18:59	01/28/16 15:28	1
1,3-Dichlorobenzene	ND	*	6.2		ug/Kg	☼	01/27/16 18:59	01/28/16 15:28	1
1,4-Dichlorobenzene	ND	*	6.2		ug/Kg	☼	01/27/16 18:59	01/28/16 15:28	1
1,3-Dichloropropane	ND		6.2		ug/Kg	☼	01/27/16 18:59	01/28/16 15:28	1
1,1-Dichloropropene	ND		6.2		ug/Kg	☼	01/27/16 18:59	01/28/16 15:28	1
1,2-Dibromo-3-Chloropropane	ND	*	12		ug/Kg	☼	01/27/16 18:59	01/28/16 15:28	1
Ethylene Dibromide	ND		6.2		ug/Kg	☼	01/27/16 18:59	01/28/16 15:28	1
Dibromomethane	ND		12		ug/Kg	☼	01/27/16 18:59	01/28/16 15:28	1
Dichlorodifluoromethane	ND		12		ug/Kg	☼	01/27/16 18:59	01/28/16 15:28	1
1,1-Dichloroethane	ND		6.2		ug/Kg	☼	01/27/16 18:59	01/28/16 15:28	1
1,2-Dichloroethane	ND		6.2		ug/Kg	☼	01/27/16 18:59	01/28/16 15:28	1
1,1-Dichloroethene	ND		6.2		ug/Kg	☼	01/27/16 18:59	01/28/16 15:28	1
cis-1,2-Dichloroethene	ND		6.2		ug/Kg	☼	01/27/16 18:59	01/28/16 15:28	1
trans-1,2-Dichloroethene	ND		6.2		ug/Kg	☼	01/27/16 18:59	01/28/16 15:28	1
1,2-Dichloropropane	ND		6.2		ug/Kg	☼	01/27/16 18:59	01/28/16 15:28	1
cis-1,3-Dichloropropene	ND		6.2		ug/Kg	☼	01/27/16 18:59	01/28/16 15:28	1
trans-1,3-Dichloropropene	ND		6.2		ug/Kg	☼	01/27/16 18:59	01/28/16 15:28	1
Ethylbenzene	ND		6.2		ug/Kg	☼	01/27/16 18:59	01/28/16 15:28	1
Hexachlorobutadiene	ND	*	6.2		ug/Kg	☼	01/27/16 18:59	01/28/16 15:28	1
2-Hexanone	ND		62		ug/Kg	☼	01/27/16 18:59	01/28/16 15:28	1
Isopropylbenzene	ND		6.2		ug/Kg	☼	01/27/16 18:59	01/28/16 15:28	1
4-Isopropyltoluene	ND	*	6.2		ug/Kg	☼	01/27/16 18:59	01/28/16 15:28	1
Methylene Chloride	ND		12		ug/Kg	☼	01/27/16 18:59	01/28/16 15:28	1
4-Methyl-2-pentanone (MIBK)	ND		62		ug/Kg	☼	01/27/16 18:59	01/28/16 15:28	1
Naphthalene	ND	*	12		ug/Kg	☼	01/27/16 18:59	01/28/16 15:28	1
N-Propylbenzene	ND	*	6.2		ug/Kg	☼	01/27/16 18:59	01/28/16 15:28	1
Styrene	ND		6.2		ug/Kg	☼	01/27/16 18:59	01/28/16 15:28	1
1,1,1,2-Tetrachloroethane	ND		6.2		ug/Kg	☼	01/27/16 18:59	01/28/16 15:28	1

TestAmerica Pleasanton

# Client Sample Results

Client: Geologica Inc  
Project/Site: Pin High

TestAmerica Job ID: 720-69933-1

**Client Sample ID: GP-2-7.5-8'**

**Lab Sample ID: 720-69933-13**

**Date Collected: 01/21/16 11:42**

**Matrix: Solid**

**Date Received: 01/22/16 17:10**

**Percent Solids: 76.9**

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND	*	6.2		ug/Kg	☼	01/27/16 18:59	01/28/16 15:28	1
Tetrachloroethene	ND		6.2		ug/Kg	☼	01/27/16 18:59	01/28/16 15:28	1
Toluene	ND		6.2		ug/Kg	☼	01/27/16 18:59	01/28/16 15:28	1
1,2,3-Trichlorobenzene	ND	*	6.2		ug/Kg	☼	01/27/16 18:59	01/28/16 15:28	1
1,2,4-Trichlorobenzene	ND	*	6.2		ug/Kg	☼	01/27/16 18:59	01/28/16 15:28	1
1,1,1-Trichloroethane	ND		6.2		ug/Kg	☼	01/27/16 18:59	01/28/16 15:28	1
1,1,2-Trichloroethane	ND		6.2		ug/Kg	☼	01/27/16 18:59	01/28/16 15:28	1
Trichloroethene	ND		6.2		ug/Kg	☼	01/27/16 18:59	01/28/16 15:28	1
Trichlorofluoromethane	ND		6.2		ug/Kg	☼	01/27/16 18:59	01/28/16 15:28	1
1,2,3-Trichloropropane	ND	*	6.2		ug/Kg	☼	01/27/16 18:59	01/28/16 15:28	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		6.2		ug/Kg	☼	01/27/16 18:59	01/28/16 15:28	1
1,2,4-Trimethylbenzene	ND	*	6.2		ug/Kg	☼	01/27/16 18:59	01/28/16 15:28	1
1,3,5-Trimethylbenzene	ND	*	6.2		ug/Kg	☼	01/27/16 18:59	01/28/16 15:28	1
Vinyl acetate	ND		25		ug/Kg	☼	01/27/16 18:59	01/28/16 15:28	1
Vinyl chloride	ND		6.2		ug/Kg	☼	01/27/16 18:59	01/28/16 15:28	1
Xylenes, Total	ND		12		ug/Kg	☼	01/27/16 18:59	01/28/16 15:28	1
2,2-Dichloropropane	ND		6.2		ug/Kg	☼	01/27/16 18:59	01/28/16 15:28	1
Gasoline Range Organics (GRO) -C5-C12	ND		310		ug/Kg	☼	01/27/16 18:59	01/28/16 15:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	79		45 - 131	01/27/16 18:59	01/28/16 15:28	1
1,2-Dichloroethane-d4 (Surr)	102		60 - 140	01/27/16 18:59	01/28/16 15:28	1
Toluene-d8 (Surr)	90		58 - 140	01/27/16 18:59	01/28/16 15:28	1

## Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	1400		26		mg/Kg	☼	01/27/16 20:37	01/28/16 23:22	20
Motor Oil Range Organics [C24-C36]	4800		1300		mg/Kg	☼	01/27/16 20:37	01/28/16 23:22	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Capric Acid (Surr)	0		0 - 1	01/27/16 20:37	01/28/16 23:22	20
p-Terphenyl	0	X D	38 - 148	01/27/16 20:37	01/28/16 23:22	20

## Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		2.2		mg/Kg	☼	01/26/16 14:13	01/27/16 22:07	4
Arsenic	5.0		4.5		mg/Kg	☼	01/26/16 14:13	01/27/16 22:07	4
Barium	150		2.2		mg/Kg	☼	01/26/16 14:13	01/27/16 22:07	4
Beryllium	ND		0.45		mg/Kg	☼	01/26/16 14:13	01/27/16 22:07	4
Cadmium	ND		0.56		mg/Kg	☼	01/26/16 14:13	01/27/16 22:07	4
Chromium	280		2.2		mg/Kg	☼	01/26/16 14:13	01/27/16 22:07	4
Cobalt	48		0.90		mg/Kg	☼	01/26/16 14:13	01/27/16 22:07	4
Copper	27		6.7		mg/Kg	☼	01/26/16 14:13	01/27/16 22:07	4
Lead	15		2.2		mg/Kg	☼	01/26/16 14:13	01/27/16 22:07	4
Molybdenum	ND		2.2		mg/Kg	☼	01/26/16 14:13	01/27/16 22:07	4
Nickel	600		2.2		mg/Kg	☼	01/26/16 14:13	01/27/16 22:07	4
Selenium	ND		4.5		mg/Kg	☼	01/26/16 14:13	01/27/16 22:07	4
Silver	ND		1.1		mg/Kg	☼	01/26/16 14:13	01/27/16 22:07	4
Thallium	ND		2.2		mg/Kg	☼	01/26/16 14:13	01/27/16 22:07	4

TestAmerica Pleasanton

# Client Sample Results

Client: Geologica Inc  
Project/Site: Pin High

TestAmerica Job ID: 720-69933-1

**Client Sample ID: GP-2-7.5-8'**

**Lab Sample ID: 720-69933-13**

Date Collected: 01/21/16 11:42

Matrix: Solid

Date Received: 01/22/16 17:10

Percent Solids: 76.9

**Method: 6010B - Metals (ICP) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vanadium	43		2.2		mg/Kg	☼	01/26/16 14:13	01/27/16 22:07	4
Zinc	46		6.7		mg/Kg	☼	01/26/16 14:13	01/27/16 22:07	4

**Method: 7471A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.21		0.011		mg/Kg	☼	01/26/16 17:30	01/27/16 17:07	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	23		0.10		%	-		01/27/16 09:39	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

# Client Sample Results

Client: Geologica Inc  
Project/Site: Pin High

TestAmerica Job ID: 720-69933-1

**Client Sample ID: GP-3-3.5-4'**

**Lab Sample ID: 720-69933-15**

**Date Collected: 01/21/16 13:45**

**Matrix: Solid**

**Date Received: 01/22/16 17:10**

**Percent Solids: 89.7**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		5.4		ug/Kg	☼	01/27/16 18:59	01/28/16 15:57	1
Acetone	ND		54		ug/Kg	☼	01/27/16 18:59	01/28/16 15:57	1
Benzene	ND		5.4		ug/Kg	☼	01/27/16 18:59	01/28/16 15:57	1
Dichlorobromomethane	ND		5.4		ug/Kg	☼	01/27/16 18:59	01/28/16 15:57	1
Bromobenzene	ND	*	5.4		ug/Kg	☼	01/27/16 18:59	01/28/16 15:57	1
Chlorobromomethane	ND		21		ug/Kg	☼	01/27/16 18:59	01/28/16 15:57	1
Bromoform	ND		5.4		ug/Kg	☼	01/27/16 18:59	01/28/16 15:57	1
Bromomethane	ND		11		ug/Kg	☼	01/27/16 18:59	01/28/16 15:57	1
2-Butanone (MEK)	ND		54		ug/Kg	☼	01/27/16 18:59	01/28/16 15:57	1
n-Butylbenzene	ND	*	5.4		ug/Kg	☼	01/27/16 18:59	01/28/16 15:57	1
sec-Butylbenzene	ND	*	5.4		ug/Kg	☼	01/27/16 18:59	01/28/16 15:57	1
tert-Butylbenzene	ND	*	5.4		ug/Kg	☼	01/27/16 18:59	01/28/16 15:57	1
Carbon disulfide	ND		5.4		ug/Kg	☼	01/27/16 18:59	01/28/16 15:57	1
Carbon tetrachloride	ND		5.4		ug/Kg	☼	01/27/16 18:59	01/28/16 15:57	1
Chlorobenzene	ND		5.4		ug/Kg	☼	01/27/16 18:59	01/28/16 15:57	1
Chloroethane	ND		11		ug/Kg	☼	01/27/16 18:59	01/28/16 15:57	1
Chloroform	ND		5.4		ug/Kg	☼	01/27/16 18:59	01/28/16 15:57	1
Chloromethane	ND		11		ug/Kg	☼	01/27/16 18:59	01/28/16 15:57	1
2-Chlorotoluene	ND	*	5.4		ug/Kg	☼	01/27/16 18:59	01/28/16 15:57	1
4-Chlorotoluene	ND	*	5.4		ug/Kg	☼	01/27/16 18:59	01/28/16 15:57	1
Chlorodibromomethane	ND		5.4		ug/Kg	☼	01/27/16 18:59	01/28/16 15:57	1
1,2-Dichlorobenzene	ND	*	5.4		ug/Kg	☼	01/27/16 18:59	01/28/16 15:57	1
1,3-Dichlorobenzene	ND	*	5.4		ug/Kg	☼	01/27/16 18:59	01/28/16 15:57	1
1,4-Dichlorobenzene	ND	*	5.4		ug/Kg	☼	01/27/16 18:59	01/28/16 15:57	1
1,3-Dichloropropane	ND		5.4		ug/Kg	☼	01/27/16 18:59	01/28/16 15:57	1
1,1-Dichloropropane	ND		5.4		ug/Kg	☼	01/27/16 18:59	01/28/16 15:57	1
1,2-Dibromo-3-Chloropropane	ND	*	11		ug/Kg	☼	01/27/16 18:59	01/28/16 15:57	1
Ethylene Dibromide	ND		5.4		ug/Kg	☼	01/27/16 18:59	01/28/16 15:57	1
Dibromomethane	ND		11		ug/Kg	☼	01/27/16 18:59	01/28/16 15:57	1
Dichlorodifluoromethane	ND		11		ug/Kg	☼	01/27/16 18:59	01/28/16 15:57	1
1,1-Dichloroethane	ND		5.4		ug/Kg	☼	01/27/16 18:59	01/28/16 15:57	1
1,2-Dichloroethane	ND		5.4		ug/Kg	☼	01/27/16 18:59	01/28/16 15:57	1
1,1-Dichloroethene	ND		5.4		ug/Kg	☼	01/27/16 18:59	01/28/16 15:57	1
cis-1,2-Dichloroethene	ND		5.4		ug/Kg	☼	01/27/16 18:59	01/28/16 15:57	1
trans-1,2-Dichloroethene	ND		5.4		ug/Kg	☼	01/27/16 18:59	01/28/16 15:57	1
1,2-Dichloropropane	ND		5.4		ug/Kg	☼	01/27/16 18:59	01/28/16 15:57	1
cis-1,3-Dichloropropene	ND		5.4		ug/Kg	☼	01/27/16 18:59	01/28/16 15:57	1
trans-1,3-Dichloropropene	ND		5.4		ug/Kg	☼	01/27/16 18:59	01/28/16 15:57	1
Ethylbenzene	ND		5.4		ug/Kg	☼	01/27/16 18:59	01/28/16 15:57	1
Hexachlorobutadiene	ND	*	5.4		ug/Kg	☼	01/27/16 18:59	01/28/16 15:57	1
2-Hexanone	ND		54		ug/Kg	☼	01/27/16 18:59	01/28/16 15:57	1
Isopropylbenzene	ND		5.4		ug/Kg	☼	01/27/16 18:59	01/28/16 15:57	1
4-Isopropyltoluene	ND	*	5.4		ug/Kg	☼	01/27/16 18:59	01/28/16 15:57	1
Methylene Chloride	ND		11		ug/Kg	☼	01/27/16 18:59	01/28/16 15:57	1
4-Methyl-2-pentanone (MIBK)	ND		54		ug/Kg	☼	01/27/16 18:59	01/28/16 15:57	1
Naphthalene	ND	*	11		ug/Kg	☼	01/27/16 18:59	01/28/16 15:57	1
N-Propylbenzene	ND	*	5.4		ug/Kg	☼	01/27/16 18:59	01/28/16 15:57	1
Styrene	ND		5.4		ug/Kg	☼	01/27/16 18:59	01/28/16 15:57	1
1,1,1,2-Tetrachloroethane	ND		5.4		ug/Kg	☼	01/27/16 18:59	01/28/16 15:57	1

TestAmerica Pleasanton



# Client Sample Results

Client: Geologica Inc  
Project/Site: Pin High

TestAmerica Job ID: 720-69933-1

**Client Sample ID: GP-3-3.5-4'**

**Lab Sample ID: 720-69933-15**

**Date Collected: 01/21/16 13:45**

**Matrix: Solid**

**Date Received: 01/22/16 17:10**

**Percent Solids: 89.7**

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND	*	5.4		ug/Kg	☼	01/27/16 18:59	01/28/16 15:57	1
Tetrachloroethene	ND		5.4		ug/Kg	☼	01/27/16 18:59	01/28/16 15:57	1
Toluene	ND		5.4		ug/Kg	☼	01/27/16 18:59	01/28/16 15:57	1
1,2,3-Trichlorobenzene	ND	*	5.4		ug/Kg	☼	01/27/16 18:59	01/28/16 15:57	1
1,2,4-Trichlorobenzene	ND	*	5.4		ug/Kg	☼	01/27/16 18:59	01/28/16 15:57	1
1,1,1-Trichloroethane	ND		5.4		ug/Kg	☼	01/27/16 18:59	01/28/16 15:57	1
1,1,2-Trichloroethane	ND		5.4		ug/Kg	☼	01/27/16 18:59	01/28/16 15:57	1
Trichloroethene	ND		5.4		ug/Kg	☼	01/27/16 18:59	01/28/16 15:57	1
Trichlorofluoromethane	ND		5.4		ug/Kg	☼	01/27/16 18:59	01/28/16 15:57	1
1,2,3-Trichloropropane	ND	*	5.4		ug/Kg	☼	01/27/16 18:59	01/28/16 15:57	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.4		ug/Kg	☼	01/27/16 18:59	01/28/16 15:57	1
1,2,4-Trimethylbenzene	ND	*	5.4		ug/Kg	☼	01/27/16 18:59	01/28/16 15:57	1
1,3,5-Trimethylbenzene	ND	*	5.4		ug/Kg	☼	01/27/16 18:59	01/28/16 15:57	1
Vinyl acetate	ND		21		ug/Kg	☼	01/27/16 18:59	01/28/16 15:57	1
Vinyl chloride	ND		5.4		ug/Kg	☼	01/27/16 18:59	01/28/16 15:57	1
Xylenes, Total	ND		11		ug/Kg	☼	01/27/16 18:59	01/28/16 15:57	1
2,2-Dichloropropane	ND		5.4		ug/Kg	☼	01/27/16 18:59	01/28/16 15:57	1
Gasoline Range Organics (GRO) -C5-C12	ND		270		ug/Kg	☼	01/27/16 18:59	01/28/16 15:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	83		45 - 131	01/27/16 18:59	01/28/16 15:57	1
1,2-Dichloroethane-d4 (Surr)	102		60 - 140	01/27/16 18:59	01/28/16 15:57	1
Toluene-d8 (Surr)	93		58 - 140	01/27/16 18:59	01/28/16 15:57	1

## Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Diesel Range Organics [C10-C28]</b>	<b>290</b>		11		mg/Kg	☼	01/27/16 20:37	01/28/16 23:46	10
<b>Motor Oil Range Organics [C24-C36]</b>	<b>1200</b>		550		mg/Kg	☼	01/27/16 20:37	01/28/16 23:46	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Capric Acid (Surr)	0		0 - 1	01/27/16 20:37	01/28/16 23:46	10
p-Terphenyl	0	X D	38 - 148	01/27/16 20:37	01/28/16 23:46	10

## Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		1.9		mg/Kg	☼	01/26/16 14:13	01/27/16 22:12	4
Arsenic	ND		3.9		mg/Kg	☼	01/26/16 14:13	01/27/16 22:12	4
<b>Barium</b>	<b>140</b>		1.9		mg/Kg	☼	01/26/16 14:13	01/27/16 22:12	4
Beryllium	ND		0.39		mg/Kg	☼	01/26/16 14:13	01/27/16 22:12	4
Cadmium	ND		0.48		mg/Kg	☼	01/26/16 14:13	01/27/16 22:12	4
<b>Chromium</b>	<b>32</b>		1.9		mg/Kg	☼	01/26/16 14:13	01/27/16 22:12	4
<b>Cobalt</b>	<b>11</b>		0.78		mg/Kg	☼	01/26/16 14:13	01/27/16 22:12	4
<b>Copper</b>	<b>25</b>		5.8		mg/Kg	☼	01/26/16 14:13	01/27/16 22:12	4
<b>Lead</b>	<b>3.6</b>		1.9		mg/Kg	☼	01/26/16 14:13	01/27/16 22:12	4
Molybdenum	ND		1.9		mg/Kg	☼	01/26/16 14:13	01/27/16 22:12	4
<b>Nickel</b>	<b>32</b>		1.9		mg/Kg	☼	01/26/16 14:13	01/27/16 22:12	4
Selenium	ND		3.9		mg/Kg	☼	01/26/16 14:13	01/27/16 22:12	4
Silver	ND		0.97		mg/Kg	☼	01/26/16 14:13	01/27/16 22:12	4
Thallium	ND		1.9		mg/Kg	☼	01/26/16 14:13	01/27/16 22:12	4

TestAmerica Pleasanton



# Client Sample Results

Client: Geologica Inc  
Project/Site: Pin High

TestAmerica Job ID: 720-69933-1

**Client Sample ID: GP-3-3.5-4'**

**Lab Sample ID: 720-69933-15**

**Date Collected: 01/21/16 13:45**

**Matrix: Solid**

**Date Received: 01/22/16 17:10**

**Percent Solids: 89.7**

**Method: 6010B - Metals (ICP) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vanadium	50		1.9		mg/Kg	☼	01/26/16 14:13	01/27/16 22:12	4
Zinc	37		5.8		mg/Kg	☼	01/26/16 14:13	01/27/16 22:12	4

**Method: 7471A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.055		0.011		mg/Kg	☼	01/26/16 17:30	01/27/16 17:09	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	10		0.10		%	-		01/27/16 09:39	1

# Client Sample Results

Client: Geologica Inc  
Project/Site: Pin High

TestAmerica Job ID: 720-69933-1

**Client Sample ID: GP-3-7.5-8'**

**Lab Sample ID: 720-69933-16**

**Date Collected: 01/21/16 13:46**

**Matrix: Solid**

**Date Received: 01/22/16 17:10**

**Percent Solids: 83.0**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		5.9		ug/Kg	☼	01/25/16 19:58	01/27/16 06:11	1
Acetone	ND		59		ug/Kg	☼	01/25/16 19:58	01/27/16 06:11	1
Benzene	ND		5.9		ug/Kg	☼	01/25/16 19:58	01/27/16 06:11	1
Dichlorobromomethane	ND		5.9		ug/Kg	☼	01/25/16 19:58	01/27/16 06:11	1
Bromobenzene	ND		5.9		ug/Kg	☼	01/25/16 19:58	01/27/16 06:11	1
Chlorobromomethane	ND		24		ug/Kg	☼	01/25/16 19:58	01/27/16 06:11	1
Bromoform	ND		5.9		ug/Kg	☼	01/25/16 19:58	01/27/16 06:11	1
Bromomethane	ND		12		ug/Kg	☼	01/25/16 19:58	01/27/16 06:11	1
2-Butanone (MEK)	ND		59		ug/Kg	☼	01/25/16 19:58	01/27/16 06:11	1
n-Butylbenzene	ND		5.9		ug/Kg	☼	01/25/16 19:58	01/27/16 06:11	1
sec-Butylbenzene	ND		5.9		ug/Kg	☼	01/25/16 19:58	01/27/16 06:11	1
tert-Butylbenzene	ND		5.9		ug/Kg	☼	01/25/16 19:58	01/27/16 06:11	1
Carbon disulfide	ND		5.9		ug/Kg	☼	01/25/16 19:58	01/27/16 06:11	1
Carbon tetrachloride	ND		5.9		ug/Kg	☼	01/25/16 19:58	01/27/16 06:11	1
Chlorobenzene	ND		5.9		ug/Kg	☼	01/25/16 19:58	01/27/16 06:11	1
Chloroethane	ND		12		ug/Kg	☼	01/25/16 19:58	01/27/16 06:11	1
Chloroform	ND		5.9		ug/Kg	☼	01/25/16 19:58	01/27/16 06:11	1
Chloromethane	ND		12		ug/Kg	☼	01/25/16 19:58	01/27/16 06:11	1
2-Chlorotoluene	ND		5.9		ug/Kg	☼	01/25/16 19:58	01/27/16 06:11	1
4-Chlorotoluene	ND		5.9		ug/Kg	☼	01/25/16 19:58	01/27/16 06:11	1
Chlorodibromomethane	ND		5.9		ug/Kg	☼	01/25/16 19:58	01/27/16 06:11	1
1,2-Dichlorobenzene	ND		5.9		ug/Kg	☼	01/25/16 19:58	01/27/16 06:11	1
1,3-Dichlorobenzene	ND		5.9		ug/Kg	☼	01/25/16 19:58	01/27/16 06:11	1
1,4-Dichlorobenzene	ND		5.9		ug/Kg	☼	01/25/16 19:58	01/27/16 06:11	1
1,3-Dichloropropane	ND		5.9		ug/Kg	☼	01/25/16 19:58	01/27/16 06:11	1
1,1-Dichloropropane	ND		5.9		ug/Kg	☼	01/25/16 19:58	01/27/16 06:11	1
1,2-Dibromo-3-Chloropropane	ND		12		ug/Kg	☼	01/25/16 19:58	01/27/16 06:11	1
Ethylene Dibromide	ND		5.9		ug/Kg	☼	01/25/16 19:58	01/27/16 06:11	1
Dibromomethane	ND		12		ug/Kg	☼	01/25/16 19:58	01/27/16 06:11	1
Dichlorodifluoromethane	ND		12		ug/Kg	☼	01/25/16 19:58	01/27/16 06:11	1
1,1-Dichloroethane	ND		5.9		ug/Kg	☼	01/25/16 19:58	01/27/16 06:11	1
1,2-Dichloroethane	ND		5.9		ug/Kg	☼	01/25/16 19:58	01/27/16 06:11	1
1,1-Dichloroethene	ND		5.9		ug/Kg	☼	01/25/16 19:58	01/27/16 06:11	1
cis-1,2-Dichloroethene	ND		5.9		ug/Kg	☼	01/25/16 19:58	01/27/16 06:11	1
trans-1,2-Dichloroethene	ND		5.9		ug/Kg	☼	01/25/16 19:58	01/27/16 06:11	1
1,2-Dichloropropane	ND		5.9		ug/Kg	☼	01/25/16 19:58	01/27/16 06:11	1
cis-1,3-Dichloropropene	ND		5.9		ug/Kg	☼	01/25/16 19:58	01/27/16 06:11	1
trans-1,3-Dichloropropene	ND		5.9		ug/Kg	☼	01/25/16 19:58	01/27/16 06:11	1
Ethylbenzene	ND		5.9		ug/Kg	☼	01/25/16 19:58	01/27/16 06:11	1
Hexachlorobutadiene	ND		5.9		ug/Kg	☼	01/25/16 19:58	01/27/16 06:11	1
2-Hexanone	ND		59		ug/Kg	☼	01/25/16 19:58	01/27/16 06:11	1
Isopropylbenzene	ND		5.9		ug/Kg	☼	01/25/16 19:58	01/27/16 06:11	1
4-Isopropyltoluene	ND		5.9		ug/Kg	☼	01/25/16 19:58	01/27/16 06:11	1
Methylene Chloride	ND		12		ug/Kg	☼	01/25/16 19:58	01/27/16 06:11	1
4-Methyl-2-pentanone (MIBK)	ND		59		ug/Kg	☼	01/25/16 19:58	01/27/16 06:11	1
Naphthalene	ND		12		ug/Kg	☼	01/25/16 19:58	01/27/16 06:11	1
N-Propylbenzene	ND		5.9		ug/Kg	☼	01/25/16 19:58	01/27/16 06:11	1
Styrene	ND		5.9		ug/Kg	☼	01/25/16 19:58	01/27/16 06:11	1
1,1,1,2-Tetrachloroethane	ND		5.9		ug/Kg	☼	01/25/16 19:58	01/27/16 06:11	1

TestAmerica Pleasanton

# Client Sample Results

Client: Geologica Inc  
Project/Site: Pin High

TestAmerica Job ID: 720-69933-1

**Client Sample ID: GP-3-7.5-8'**

**Lab Sample ID: 720-69933-16**

**Date Collected: 01/21/16 13:46**

**Matrix: Solid**

**Date Received: 01/22/16 17:10**

**Percent Solids: 83.0**

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		5.9		ug/Kg	☼	01/25/16 19:58	01/27/16 06:11	1
Tetrachloroethene	ND		5.9		ug/Kg	☼	01/25/16 19:58	01/27/16 06:11	1
Toluene	ND		5.9		ug/Kg	☼	01/25/16 19:58	01/27/16 06:11	1
1,2,3-Trichlorobenzene	ND		5.9		ug/Kg	☼	01/25/16 19:58	01/27/16 06:11	1
1,2,4-Trichlorobenzene	ND		5.9		ug/Kg	☼	01/25/16 19:58	01/27/16 06:11	1
1,1,1-Trichloroethane	ND		5.9		ug/Kg	☼	01/25/16 19:58	01/27/16 06:11	1
1,1,2-Trichloroethane	ND		5.9		ug/Kg	☼	01/25/16 19:58	01/27/16 06:11	1
Trichloroethene	ND		5.9		ug/Kg	☼	01/25/16 19:58	01/27/16 06:11	1
Trichlorofluoromethane	ND		5.9		ug/Kg	☼	01/25/16 19:58	01/27/16 06:11	1
1,2,3-Trichloropropane	ND		5.9		ug/Kg	☼	01/25/16 19:58	01/27/16 06:11	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.9		ug/Kg	☼	01/25/16 19:58	01/27/16 06:11	1
1,2,4-Trimethylbenzene	ND		5.9		ug/Kg	☼	01/25/16 19:58	01/27/16 06:11	1
1,3,5-Trimethylbenzene	ND		5.9		ug/Kg	☼	01/25/16 19:58	01/27/16 06:11	1
Vinyl acetate	ND		24		ug/Kg	☼	01/25/16 19:58	01/27/16 06:11	1
Vinyl chloride	ND		5.9		ug/Kg	☼	01/25/16 19:58	01/27/16 06:11	1
Xylenes, Total	ND		12		ug/Kg	☼	01/25/16 19:58	01/27/16 06:11	1
2,2-Dichloropropane	ND		5.9		ug/Kg	☼	01/25/16 19:58	01/27/16 06:11	1
Gasoline Range Organics (GRO) -C5-C12	ND		300		ug/Kg	☼	01/25/16 19:58	01/27/16 06:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	84		45 - 131	01/25/16 19:58	01/27/16 06:11	1
1,2-Dichloroethane-d4 (Surr)	112		60 - 140	01/25/16 19:58	01/27/16 06:11	1
Toluene-d8 (Surr)	97		58 - 140	01/25/16 19:58	01/27/16 06:11	1

## Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Diesel Range Organics [C10-C28]</b>	<b>11</b>		1.2		mg/Kg	☼	01/27/16 21:05	01/29/16 02:10	1
Motor Oil Range Organics [C24-C36]	ND		60		mg/Kg	☼	01/27/16 21:05	01/29/16 02:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Capric Acid (Surr)	0.004		0 - 1	01/27/16 21:05	01/29/16 02:10	1
p-Terphenyl	84		38 - 148	01/27/16 21:05	01/29/16 02:10	1

## Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		1.6		mg/Kg	☼	01/26/16 14:13	01/27/16 22:17	4
Arsenic	ND		3.2		mg/Kg	☼	01/26/16 14:13	01/27/16 22:17	4
<b>Barium</b>	<b>100</b>		1.6		mg/Kg	☼	01/26/16 14:13	01/27/16 22:17	4
Beryllium	ND		0.32		mg/Kg	☼	01/26/16 14:13	01/27/16 22:17	4
Cadmium	ND		0.40		mg/Kg	☼	01/26/16 14:13	01/27/16 22:17	4
<b>Chromium</b>	<b>83</b>		1.6		mg/Kg	☼	01/26/16 14:13	01/27/16 22:17	4
<b>Cobalt</b>	<b>16</b>		0.65		mg/Kg	☼	01/26/16 14:13	01/27/16 22:17	4
<b>Copper</b>	<b>63</b>		4.9		mg/Kg	☼	01/26/16 14:13	01/27/16 22:17	4
<b>Lead</b>	<b>5.9</b>		1.6		mg/Kg	☼	01/26/16 14:13	01/27/16 22:17	4
Molybdenum	ND		1.6		mg/Kg	☼	01/26/16 14:13	01/27/16 22:17	4
<b>Nickel</b>	<b>86</b>		1.6		mg/Kg	☼	01/26/16 14:13	01/27/16 22:17	4
Selenium	ND		3.2		mg/Kg	☼	01/26/16 14:13	01/27/16 22:17	4
Silver	ND		0.81		mg/Kg	☼	01/26/16 14:13	01/27/16 22:17	4
Thallium	ND		1.6		mg/Kg	☼	01/26/16 14:13	01/27/16 22:17	4
<b>Vanadium</b>	<b>69</b>		1.6		mg/Kg	☼	01/26/16 14:13	01/27/16 22:17	4

TestAmerica Pleasanton

# Client Sample Results

Client: Geologica Inc  
Project/Site: Pin High

TestAmerica Job ID: 720-69933-1

**Client Sample ID: GP-3-7.5-8'**

**Lab Sample ID: 720-69933-16**

**Date Collected: 01/21/16 13:46**

**Matrix: Solid**

**Date Received: 01/22/16 17:10**

**Percent Solids: 83.0**

**Method: 6010B - Metals (ICP) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	56		4.9		mg/Kg	☼	01/26/16 14:13	01/27/16 22:17	4

**Method: 7471A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.27		0.010		mg/Kg	☼	01/26/16 17:30	01/27/16 17:11	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	17		0.10		%			01/27/16 09:39	1



# Client Sample Results

Client: Geologica Inc  
Project/Site: Pin High

TestAmerica Job ID: 720-69933-1

**Client Sample ID: GP-4-3.5-4'**

**Lab Sample ID: 720-69933-19**

**Date Collected: 01/21/16 15:35**

**Matrix: Solid**

**Date Received: 01/22/16 17:10**

**Percent Solids: 69.1**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		7.0		ug/Kg	☼	01/25/16 19:58	01/27/16 13:07	1
Acetone	ND		70		ug/Kg	☼	01/25/16 19:58	01/27/16 13:07	1
Benzene	ND		7.0		ug/Kg	☼	01/25/16 19:58	01/27/16 13:07	1
Dichlorobromomethane	ND		7.0		ug/Kg	☼	01/25/16 19:58	01/27/16 13:07	1
Bromobenzene	ND	*	7.0		ug/Kg	☼	01/25/16 19:58	01/27/16 13:07	1
Chlorobromomethane	ND		28		ug/Kg	☼	01/25/16 19:58	01/27/16 13:07	1
Bromoform	ND		7.0		ug/Kg	☼	01/25/16 19:58	01/27/16 13:07	1
Bromomethane	ND		14		ug/Kg	☼	01/25/16 19:58	01/27/16 13:07	1
2-Butanone (MEK)	ND		70		ug/Kg	☼	01/25/16 19:58	01/27/16 13:07	1
n-Butylbenzene	ND	*	7.0		ug/Kg	☼	01/25/16 19:58	01/27/16 13:07	1
sec-Butylbenzene	ND	*	7.0		ug/Kg	☼	01/25/16 19:58	01/27/16 13:07	1
tert-Butylbenzene	ND	*	7.0		ug/Kg	☼	01/25/16 19:58	01/27/16 13:07	1
Carbon disulfide	ND		7.0		ug/Kg	☼	01/25/16 19:58	01/27/16 13:07	1
Carbon tetrachloride	ND		7.0		ug/Kg	☼	01/25/16 19:58	01/27/16 13:07	1
Chlorobenzene	ND		7.0		ug/Kg	☼	01/25/16 19:58	01/27/16 13:07	1
Chloroethane	ND		14		ug/Kg	☼	01/25/16 19:58	01/27/16 13:07	1
Chloroform	ND		7.0		ug/Kg	☼	01/25/16 19:58	01/27/16 13:07	1
Chloromethane	ND		14		ug/Kg	☼	01/25/16 19:58	01/27/16 13:07	1
2-Chlorotoluene	ND	*	7.0		ug/Kg	☼	01/25/16 19:58	01/27/16 13:07	1
4-Chlorotoluene	ND	*	7.0		ug/Kg	☼	01/25/16 19:58	01/27/16 13:07	1
Chlorodibromomethane	ND		7.0		ug/Kg	☼	01/25/16 19:58	01/27/16 13:07	1
1,2-Dichlorobenzene	ND	*	7.0		ug/Kg	☼	01/25/16 19:58	01/27/16 13:07	1
1,3-Dichlorobenzene	ND	*	7.0		ug/Kg	☼	01/25/16 19:58	01/27/16 13:07	1
1,4-Dichlorobenzene	ND	*	7.0		ug/Kg	☼	01/25/16 19:58	01/27/16 13:07	1
1,3-Dichloropropane	ND		7.0		ug/Kg	☼	01/25/16 19:58	01/27/16 13:07	1
1,1-Dichloropropane	ND		7.0		ug/Kg	☼	01/25/16 19:58	01/27/16 13:07	1
1,2-Dibromo-3-Chloropropane	ND	*	14		ug/Kg	☼	01/25/16 19:58	01/27/16 13:07	1
Ethylene Dibromide	ND		7.0		ug/Kg	☼	01/25/16 19:58	01/27/16 13:07	1
Dibromomethane	ND		14		ug/Kg	☼	01/25/16 19:58	01/27/16 13:07	1
Dichlorodifluoromethane	ND		14		ug/Kg	☼	01/25/16 19:58	01/27/16 13:07	1
1,1-Dichloroethane	ND		7.0		ug/Kg	☼	01/25/16 19:58	01/27/16 13:07	1
1,2-Dichloroethane	ND		7.0		ug/Kg	☼	01/25/16 19:58	01/27/16 13:07	1
1,1-Dichloroethene	ND		7.0		ug/Kg	☼	01/25/16 19:58	01/27/16 13:07	1
cis-1,2-Dichloroethene	ND		7.0		ug/Kg	☼	01/25/16 19:58	01/27/16 13:07	1
trans-1,2-Dichloroethene	ND		7.0		ug/Kg	☼	01/25/16 19:58	01/27/16 13:07	1
1,2-Dichloropropane	ND		7.0		ug/Kg	☼	01/25/16 19:58	01/27/16 13:07	1
cis-1,3-Dichloropropene	ND		7.0		ug/Kg	☼	01/25/16 19:58	01/27/16 13:07	1
trans-1,3-Dichloropropene	ND		7.0		ug/Kg	☼	01/25/16 19:58	01/27/16 13:07	1
Ethylbenzene	ND		7.0		ug/Kg	☼	01/25/16 19:58	01/27/16 13:07	1
Hexachlorobutadiene	ND	*	7.0		ug/Kg	☼	01/25/16 19:58	01/27/16 13:07	1
2-Hexanone	ND		70		ug/Kg	☼	01/25/16 19:58	01/27/16 13:07	1
Isopropylbenzene	ND		7.0		ug/Kg	☼	01/25/16 19:58	01/27/16 13:07	1
4-Isopropyltoluene	ND	*	7.0		ug/Kg	☼	01/25/16 19:58	01/27/16 13:07	1
Methylene Chloride	ND		14		ug/Kg	☼	01/25/16 19:58	01/27/16 13:07	1
4-Methyl-2-pentanone (MIBK)	ND		70		ug/Kg	☼	01/25/16 19:58	01/27/16 13:07	1
Naphthalene	ND	*	14		ug/Kg	☼	01/25/16 19:58	01/27/16 13:07	1
N-Propylbenzene	ND	*	7.0		ug/Kg	☼	01/25/16 19:58	01/27/16 13:07	1
Styrene	ND		7.0		ug/Kg	☼	01/25/16 19:58	01/27/16 13:07	1
1,1,1,2-Tetrachloroethane	ND		7.0		ug/Kg	☼	01/25/16 19:58	01/27/16 13:07	1

TestAmerica Pleasanton

# Client Sample Results

Client: Geologica Inc  
Project/Site: Pin High

TestAmerica Job ID: 720-69933-1

**Client Sample ID: GP-4-3.5-4'**

**Lab Sample ID: 720-69933-19**

**Date Collected: 01/21/16 15:35**

**Matrix: Solid**

**Date Received: 01/22/16 17:10**

**Percent Solids: 69.1**

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND	*	7.0		ug/Kg	☼	01/25/16 19:58	01/27/16 13:07	1
Tetrachloroethene	ND		7.0		ug/Kg	☼	01/25/16 19:58	01/27/16 13:07	1
Toluene	ND		7.0		ug/Kg	☼	01/25/16 19:58	01/27/16 13:07	1
1,2,3-Trichlorobenzene	ND	*	7.0		ug/Kg	☼	01/25/16 19:58	01/27/16 13:07	1
1,2,4-Trichlorobenzene	ND	*	7.0		ug/Kg	☼	01/25/16 19:58	01/27/16 13:07	1
1,1,1-Trichloroethane	ND		7.0		ug/Kg	☼	01/25/16 19:58	01/27/16 13:07	1
1,1,2-Trichloroethane	ND		7.0		ug/Kg	☼	01/25/16 19:58	01/27/16 13:07	1
Trichloroethene	ND		7.0		ug/Kg	☼	01/25/16 19:58	01/27/16 13:07	1
Trichlorofluoromethane	ND		7.0		ug/Kg	☼	01/25/16 19:58	01/27/16 13:07	1
1,2,3-Trichloropropane	ND	*	7.0		ug/Kg	☼	01/25/16 19:58	01/27/16 13:07	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		7.0		ug/Kg	☼	01/25/16 19:58	01/27/16 13:07	1
1,2,4-Trimethylbenzene	ND	*	7.0		ug/Kg	☼	01/25/16 19:58	01/27/16 13:07	1
1,3,5-Trimethylbenzene	ND	*	7.0		ug/Kg	☼	01/25/16 19:58	01/27/16 13:07	1
Vinyl acetate	ND		28		ug/Kg	☼	01/25/16 19:58	01/27/16 13:07	1
Vinyl chloride	ND		7.0		ug/Kg	☼	01/25/16 19:58	01/27/16 13:07	1
Xylenes, Total	ND		14		ug/Kg	☼	01/25/16 19:58	01/27/16 13:07	1
2,2-Dichloropropane	ND		7.0		ug/Kg	☼	01/25/16 19:58	01/27/16 13:07	1
Gasoline Range Organics (GRO) -C5-C12	ND		350		ug/Kg	☼	01/25/16 19:58	01/27/16 13:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	81		45 - 131	01/25/16 19:58	01/27/16 13:07	1
1,2-Dichloroethane-d4 (Surr)	105		60 - 140	01/25/16 19:58	01/27/16 13:07	1
Toluene-d8 (Surr)	97		58 - 140	01/25/16 19:58	01/27/16 13:07	1

## Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Diesel Range Organics [C10-C28]</b>	<b>5.1</b>		1.4		mg/Kg	☼	01/27/16 21:05	01/29/16 00:37	1
Motor Oil Range Organics [C24-C36]	ND		71		mg/Kg	☼	01/27/16 21:05	01/29/16 00:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Capric Acid (Surr)	0.03		0 - 1	01/27/16 21:05	01/29/16 00:37	1
p-Terphenyl	51		38 - 148	01/27/16 21:05	01/29/16 00:37	1

## Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.66		mg/Kg	☼	01/26/16 14:13	01/28/16 16:12	1
<b>Arsenic</b>	<b>5.7</b>		5.3		mg/Kg	☼	01/26/16 14:13	01/27/16 22:22	4
<b>Barium</b>	<b>180</b>		2.6		mg/Kg	☼	01/26/16 14:13	01/27/16 22:22	4
<b>Beryllium</b>	<b>0.79</b>		0.53		mg/Kg	☼	01/26/16 14:13	01/27/16 22:22	4
<b>Cadmium</b>	<b>0.37</b>		0.16		mg/Kg	☼	01/26/16 14:13	01/28/16 16:12	1
<b>Chromium</b>	<b>63</b>		2.6		mg/Kg	☼	01/26/16 14:13	01/27/16 22:22	4
<b>Cobalt</b>	<b>13</b>		1.1		mg/Kg	☼	01/26/16 14:13	01/27/16 22:22	4
<b>Copper</b>	<b>45</b>		7.9		mg/Kg	☼	01/26/16 14:13	01/27/16 22:22	4
<b>Lead</b>	<b>39</b>		2.6		mg/Kg	☼	01/26/16 14:13	01/27/16 22:22	4
<b>Molybdenum</b>	<b>0.76</b>		0.66		mg/Kg	☼	01/26/16 14:13	01/28/16 16:12	1
<b>Nickel</b>	<b>77</b>		2.6		mg/Kg	☼	01/26/16 14:13	01/27/16 22:22	4
Selenium	ND		1.3		mg/Kg	☼	01/26/16 14:13	01/28/16 16:12	1
Silver	ND		0.33		mg/Kg	☼	01/26/16 14:13	01/28/16 16:12	1
Thallium	ND		0.66		mg/Kg	☼	01/26/16 14:13	01/28/16 16:12	1
<b>Vanadium</b>	<b>51</b>		2.6		mg/Kg	☼	01/26/16 14:13	01/27/16 22:22	4

TestAmerica Pleasanton

# Client Sample Results

Client: Geologica Inc  
Project/Site: Pin High

TestAmerica Job ID: 720-69933-1

**Client Sample ID: GP-4-3.5-4'**

**Lab Sample ID: 720-69933-19**

Date Collected: 01/21/16 15:35

Matrix: Solid

Date Received: 01/22/16 17:10

Percent Solids: 69.1

**Method: 6010B - Metals (ICP) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	120		7.9		mg/Kg	☼	01/26/16 14:13	01/27/16 22:22	4

**Method: 7471A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.18		0.013		mg/Kg	☼	01/26/16 17:30	01/27/16 17:14	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	31		0.10		%			01/27/16 09:39	1





# Client Sample Results

Client: Geologica Inc  
Project/Site: Pin High

TestAmerica Job ID: 720-69933-1

**Client Sample ID: GP-5-4.5-5'**

**Lab Sample ID: 720-69933-23**

**Date Collected: 01/21/16 16:06**

**Matrix: Solid**

**Date Received: 01/22/16 17:10**

**Percent Solids: 78.9**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		6.2		ug/Kg	☼	01/25/16 19:58	01/27/16 13:38	1
Acetone	ND		62		ug/Kg	☼	01/25/16 19:58	01/27/16 13:38	1
Benzene	ND		6.2		ug/Kg	☼	01/25/16 19:58	01/27/16 13:38	1
Dichlorobromomethane	ND		6.2		ug/Kg	☼	01/25/16 19:58	01/27/16 13:38	1
Bromobenzene	ND	*	6.2		ug/Kg	☼	01/25/16 19:58	01/27/16 13:38	1
Chlorobromomethane	ND		25		ug/Kg	☼	01/25/16 19:58	01/27/16 13:38	1
Bromoform	ND		6.2		ug/Kg	☼	01/25/16 19:58	01/27/16 13:38	1
Bromomethane	ND		12		ug/Kg	☼	01/25/16 19:58	01/27/16 13:38	1
2-Butanone (MEK)	ND		62		ug/Kg	☼	01/25/16 19:58	01/27/16 13:38	1
n-Butylbenzene	ND	*	6.2		ug/Kg	☼	01/25/16 19:58	01/27/16 13:38	1
sec-Butylbenzene	ND	*	6.2		ug/Kg	☼	01/25/16 19:58	01/27/16 13:38	1
tert-Butylbenzene	ND	*	6.2		ug/Kg	☼	01/25/16 19:58	01/27/16 13:38	1
Carbon disulfide	ND		6.2		ug/Kg	☼	01/25/16 19:58	01/27/16 13:38	1
Carbon tetrachloride	ND		6.2		ug/Kg	☼	01/25/16 19:58	01/27/16 13:38	1
Chlorobenzene	ND		6.2		ug/Kg	☼	01/25/16 19:58	01/27/16 13:38	1
Chloroethane	ND		12		ug/Kg	☼	01/25/16 19:58	01/27/16 13:38	1
Chloroform	ND		6.2		ug/Kg	☼	01/25/16 19:58	01/27/16 13:38	1
Chloromethane	ND		12		ug/Kg	☼	01/25/16 19:58	01/27/16 13:38	1
2-Chlorotoluene	ND	*	6.2		ug/Kg	☼	01/25/16 19:58	01/27/16 13:38	1
4-Chlorotoluene	ND	*	6.2		ug/Kg	☼	01/25/16 19:58	01/27/16 13:38	1
Chlorodibromomethane	ND		6.2		ug/Kg	☼	01/25/16 19:58	01/27/16 13:38	1
1,2-Dichlorobenzene	ND	*	6.2		ug/Kg	☼	01/25/16 19:58	01/27/16 13:38	1
1,3-Dichlorobenzene	ND	*	6.2		ug/Kg	☼	01/25/16 19:58	01/27/16 13:38	1
1,4-Dichlorobenzene	ND	*	6.2		ug/Kg	☼	01/25/16 19:58	01/27/16 13:38	1
1,3-Dichloropropane	ND		6.2		ug/Kg	☼	01/25/16 19:58	01/27/16 13:38	1
1,1-Dichloropropane	ND		6.2		ug/Kg	☼	01/25/16 19:58	01/27/16 13:38	1
1,2-Dibromo-3-Chloropropane	ND	*	12		ug/Kg	☼	01/25/16 19:58	01/27/16 13:38	1
Ethylene Dibromide	ND		6.2		ug/Kg	☼	01/25/16 19:58	01/27/16 13:38	1
Dibromomethane	ND		12		ug/Kg	☼	01/25/16 19:58	01/27/16 13:38	1
Dichlorodifluoromethane	ND		12		ug/Kg	☼	01/25/16 19:58	01/27/16 13:38	1
1,1-Dichloroethane	ND		6.2		ug/Kg	☼	01/25/16 19:58	01/27/16 13:38	1
1,2-Dichloroethane	ND		6.2		ug/Kg	☼	01/25/16 19:58	01/27/16 13:38	1
1,1-Dichloroethene	ND		6.2		ug/Kg	☼	01/25/16 19:58	01/27/16 13:38	1
cis-1,2-Dichloroethene	ND		6.2		ug/Kg	☼	01/25/16 19:58	01/27/16 13:38	1
trans-1,2-Dichloroethene	ND		6.2		ug/Kg	☼	01/25/16 19:58	01/27/16 13:38	1
1,2-Dichloropropane	ND		6.2		ug/Kg	☼	01/25/16 19:58	01/27/16 13:38	1
cis-1,3-Dichloropropene	ND		6.2		ug/Kg	☼	01/25/16 19:58	01/27/16 13:38	1
trans-1,3-Dichloropropene	ND		6.2		ug/Kg	☼	01/25/16 19:58	01/27/16 13:38	1
Ethylbenzene	ND		6.2		ug/Kg	☼	01/25/16 19:58	01/27/16 13:38	1
Hexachlorobutadiene	ND	*	6.2		ug/Kg	☼	01/25/16 19:58	01/27/16 13:38	1
2-Hexanone	ND		62		ug/Kg	☼	01/25/16 19:58	01/27/16 13:38	1
Isopropylbenzene	ND		6.2		ug/Kg	☼	01/25/16 19:58	01/27/16 13:38	1
4-Isopropyltoluene	ND	*	6.2		ug/Kg	☼	01/25/16 19:58	01/27/16 13:38	1
Methylene Chloride	ND		12		ug/Kg	☼	01/25/16 19:58	01/27/16 13:38	1
4-Methyl-2-pentanone (MIBK)	ND		62		ug/Kg	☼	01/25/16 19:58	01/27/16 13:38	1
Naphthalene	ND	*	12		ug/Kg	☼	01/25/16 19:58	01/27/16 13:38	1
N-Propylbenzene	ND	*	6.2		ug/Kg	☼	01/25/16 19:58	01/27/16 13:38	1
Styrene	ND		6.2		ug/Kg	☼	01/25/16 19:58	01/27/16 13:38	1
1,1,1,2-Tetrachloroethane	ND		6.2		ug/Kg	☼	01/25/16 19:58	01/27/16 13:38	1

TestAmerica Pleasanton

# Client Sample Results

Client: Geologica Inc  
Project/Site: Pin High

TestAmerica Job ID: 720-69933-1

**Client Sample ID: GP-5-4.5-5'**

**Lab Sample ID: 720-69933-23**

**Date Collected: 01/21/16 16:06**

**Matrix: Solid**

**Date Received: 01/22/16 17:10**

**Percent Solids: 78.9**

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND	*	6.2		ug/Kg	☼	01/25/16 19:58	01/27/16 13:38	1
Tetrachloroethene	ND		6.2		ug/Kg	☼	01/25/16 19:58	01/27/16 13:38	1
Toluene	ND		6.2		ug/Kg	☼	01/25/16 19:58	01/27/16 13:38	1
1,2,3-Trichlorobenzene	ND	*	6.2		ug/Kg	☼	01/25/16 19:58	01/27/16 13:38	1
1,2,4-Trichlorobenzene	ND	*	6.2		ug/Kg	☼	01/25/16 19:58	01/27/16 13:38	1
1,1,1-Trichloroethane	ND		6.2		ug/Kg	☼	01/25/16 19:58	01/27/16 13:38	1
1,1,2-Trichloroethane	ND		6.2		ug/Kg	☼	01/25/16 19:58	01/27/16 13:38	1
Trichloroethene	ND		6.2		ug/Kg	☼	01/25/16 19:58	01/27/16 13:38	1
Trichlorofluoromethane	ND		6.2		ug/Kg	☼	01/25/16 19:58	01/27/16 13:38	1
1,2,3-Trichloropropane	ND	*	6.2		ug/Kg	☼	01/25/16 19:58	01/27/16 13:38	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		6.2		ug/Kg	☼	01/25/16 19:58	01/27/16 13:38	1
1,2,4-Trimethylbenzene	ND	*	6.2		ug/Kg	☼	01/25/16 19:58	01/27/16 13:38	1
1,3,5-Trimethylbenzene	ND	*	6.2		ug/Kg	☼	01/25/16 19:58	01/27/16 13:38	1
Vinyl acetate	ND		25		ug/Kg	☼	01/25/16 19:58	01/27/16 13:38	1
Vinyl chloride	ND		6.2		ug/Kg	☼	01/25/16 19:58	01/27/16 13:38	1
Xylenes, Total	ND		12		ug/Kg	☼	01/25/16 19:58	01/27/16 13:38	1
2,2-Dichloropropane	ND		6.2		ug/Kg	☼	01/25/16 19:58	01/27/16 13:38	1
Gasoline Range Organics (GRO) -C5-C12	ND		310		ug/Kg	☼	01/25/16 19:58	01/27/16 13:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	71		45 - 131	01/25/16 19:58	01/27/16 13:38	1
1,2-Dichloroethane-d4 (Surr)	116		60 - 140	01/25/16 19:58	01/27/16 13:38	1
Toluene-d8 (Surr)	81		58 - 140	01/25/16 19:58	01/27/16 13:38	1

## Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Diesel Range Organics [C10-C28]</b>	<b>43</b>		1.3		mg/Kg	☼	01/27/16 21:05	01/29/16 03:32	1
<b>Motor Oil Range Organics [C24-C36]</b>	<b>110</b>		63		mg/Kg	☼	01/27/16 21:05	01/29/16 03:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Capric Acid (Surr)	0.7		0 - 1	01/27/16 21:05	01/29/16 03:32	1
p-Terphenyl	45		38 - 148	01/27/16 21:05	01/29/16 03:32	1

## Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		1.9		mg/Kg	☼	01/26/16 14:13	01/28/16 16:17	4
<b>Arsenic</b>	<b>5.1</b>		3.8		mg/Kg	☼	01/26/16 14:13	01/28/16 16:17	4
<b>Barium</b>	<b>34</b>		1.9		mg/Kg	☼	01/26/16 14:13	01/27/16 22:27	4
Beryllium	ND		0.38		mg/Kg	☼	01/26/16 14:13	01/27/16 22:27	4
<b>Cadmium</b>	<b>0.85</b>		0.48		mg/Kg	☼	01/26/16 14:13	01/28/16 16:17	4
<b>Chromium</b>	<b>32</b>		1.9		mg/Kg	☼	01/26/16 14:13	01/27/16 22:27	4
<b>Cobalt</b>	<b>5.7</b>		0.77		mg/Kg	☼	01/26/16 14:13	01/27/16 22:27	4
<b>Copper</b>	<b>62</b>		5.8		mg/Kg	☼	01/26/16 14:13	01/27/16 22:27	4
<b>Lead</b>	<b>210</b>		1.9		mg/Kg	☼	01/26/16 14:13	01/27/16 22:27	4
<b>Molybdenum</b>	<b>8.0</b>		1.9		mg/Kg	☼	01/26/16 14:13	01/27/16 22:27	4
<b>Nickel</b>	<b>130</b>		1.9		mg/Kg	☼	01/26/16 14:13	01/27/16 22:27	4
Selenium	ND		3.8		mg/Kg	☼	01/26/16 14:13	01/27/16 22:27	4
Silver	ND		0.96		mg/Kg	☼	01/26/16 14:13	01/27/16 22:27	4
Thallium	ND		1.9		mg/Kg	☼	01/26/16 14:13	01/27/16 22:27	4

TestAmerica Pleasanton

# Client Sample Results

Client: Geologica Inc  
Project/Site: Pin High

TestAmerica Job ID: 720-69933-1

**Client Sample ID: GP-5-4.5-5'**

**Lab Sample ID: 720-69933-23**

Date Collected: 01/21/16 16:06

Matrix: Solid

Date Received: 01/22/16 17:10

Percent Solids: 78.9

**Method: 6010B - Metals (ICP) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vanadium	11		1.9		mg/Kg	☼	01/26/16 14:13	01/27/16 22:27	4
Zinc	2000		5.8		mg/Kg	☼	01/26/16 14:13	01/27/16 22:27	4

**Method: 7471A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.093		0.012		mg/Kg	☼	01/26/16 17:30	01/27/16 17:16	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	21		0.10		%	-		01/27/16 09:39	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

# Client Sample Results

Client: Geologica Inc  
Project/Site: Pin High

TestAmerica Job ID: 720-69933-1

**Client Sample ID: GP-5-7.5-8'**

**Lab Sample ID: 720-69933-24**

**Date Collected: 01/21/16 16:05**

**Matrix: Solid**

**Date Received: 01/22/16 17:10**

**Percent Solids: 78.0**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		6.2		ug/Kg	☼	01/28/16 18:30	01/29/16 00:36	1
Acetone	ND		62		ug/Kg	☼	01/28/16 18:30	01/29/16 00:36	1
Benzene	ND		6.2		ug/Kg	☼	01/28/16 18:30	01/29/16 00:36	1
Dichlorobromomethane	ND		6.2		ug/Kg	☼	01/28/16 18:30	01/29/16 00:36	1
Bromobenzene	ND	*	6.2		ug/Kg	☼	01/28/16 18:30	01/29/16 00:36	1
Chlorobromomethane	ND		25		ug/Kg	☼	01/28/16 18:30	01/29/16 00:36	1
Bromoform	ND	*	6.2		ug/Kg	☼	01/28/16 18:30	01/29/16 00:36	1
Bromomethane	ND		12		ug/Kg	☼	01/28/16 18:30	01/29/16 00:36	1
2-Butanone (MEK)	ND		62		ug/Kg	☼	01/28/16 18:30	01/29/16 00:36	1
n-Butylbenzene	ND	*	6.2		ug/Kg	☼	01/28/16 18:30	01/29/16 00:36	1
sec-Butylbenzene	ND	*	6.2		ug/Kg	☼	01/28/16 18:30	01/29/16 00:36	1
tert-Butylbenzene	ND	*	6.2		ug/Kg	☼	01/28/16 18:30	01/29/16 00:36	1
Carbon disulfide	ND		6.2		ug/Kg	☼	01/28/16 18:30	01/29/16 00:36	1
Carbon tetrachloride	ND		6.2		ug/Kg	☼	01/28/16 18:30	01/29/16 00:36	1
Chlorobenzene	ND	*	6.2		ug/Kg	☼	01/28/16 18:30	01/29/16 00:36	1
Chloroethane	ND		12		ug/Kg	☼	01/28/16 18:30	01/29/16 00:36	1
Chloroform	ND		6.2		ug/Kg	☼	01/28/16 18:30	01/29/16 00:36	1
Chloromethane	ND		12		ug/Kg	☼	01/28/16 18:30	01/29/16 00:36	1
2-Chlorotoluene	ND	*	6.2		ug/Kg	☼	01/28/16 18:30	01/29/16 00:36	1
4-Chlorotoluene	ND	*	6.2		ug/Kg	☼	01/28/16 18:30	01/29/16 00:36	1
Chlorodibromomethane	ND		6.2		ug/Kg	☼	01/28/16 18:30	01/29/16 00:36	1
1,2-Dichlorobenzene	ND	*	6.2		ug/Kg	☼	01/28/16 18:30	01/29/16 00:36	1
1,3-Dichlorobenzene	ND	*	6.2		ug/Kg	☼	01/28/16 18:30	01/29/16 00:36	1
1,4-Dichlorobenzene	ND	*	6.2		ug/Kg	☼	01/28/16 18:30	01/29/16 00:36	1
1,3-Dichloropropane	ND		6.2		ug/Kg	☼	01/28/16 18:30	01/29/16 00:36	1
1,1-Dichloropropane	ND		6.2		ug/Kg	☼	01/28/16 18:30	01/29/16 00:36	1
1,2-Dibromo-3-Chloropropane	ND	*	12		ug/Kg	☼	01/28/16 18:30	01/29/16 00:36	1
Ethylene Dibromide	ND		6.2		ug/Kg	☼	01/28/16 18:30	01/29/16 00:36	1
Dibromomethane	ND		12		ug/Kg	☼	01/28/16 18:30	01/29/16 00:36	1
Dichlorodifluoromethane	ND		12		ug/Kg	☼	01/28/16 18:30	01/29/16 00:36	1
1,1-Dichloroethane	ND		6.2		ug/Kg	☼	01/28/16 18:30	01/29/16 00:36	1
1,2-Dichloroethane	ND		6.2		ug/Kg	☼	01/28/16 18:30	01/29/16 00:36	1
1,1-Dichloroethene	ND		6.2		ug/Kg	☼	01/28/16 18:30	01/29/16 00:36	1
cis-1,2-Dichloroethene	ND		6.2		ug/Kg	☼	01/28/16 18:30	01/29/16 00:36	1
trans-1,2-Dichloroethene	ND		6.2		ug/Kg	☼	01/28/16 18:30	01/29/16 00:36	1
1,2-Dichloropropane	ND		6.2		ug/Kg	☼	01/28/16 18:30	01/29/16 00:36	1
cis-1,3-Dichloropropene	ND		6.2		ug/Kg	☼	01/28/16 18:30	01/29/16 00:36	1
trans-1,3-Dichloropropene	ND		6.2		ug/Kg	☼	01/28/16 18:30	01/29/16 00:36	1
Ethylbenzene	ND	*	6.2		ug/Kg	☼	01/28/16 18:30	01/29/16 00:36	1
Hexachlorobutadiene	ND	*	6.2		ug/Kg	☼	01/28/16 18:30	01/29/16 00:36	1
2-Hexanone	ND		62		ug/Kg	☼	01/28/16 18:30	01/29/16 00:36	1
Isopropylbenzene	ND	*	6.2		ug/Kg	☼	01/28/16 18:30	01/29/16 00:36	1
4-Isopropyltoluene	ND	*	6.2		ug/Kg	☼	01/28/16 18:30	01/29/16 00:36	1
Methylene Chloride	ND		12		ug/Kg	☼	01/28/16 18:30	01/29/16 00:36	1
4-Methyl-2-pentanone (MIBK)	ND		62		ug/Kg	☼	01/28/16 18:30	01/29/16 00:36	1
Naphthalene	ND	*	12		ug/Kg	☼	01/28/16 18:30	01/29/16 00:36	1
N-Propylbenzene	ND	*	6.2		ug/Kg	☼	01/28/16 18:30	01/29/16 00:36	1
Styrene	ND	*	6.2		ug/Kg	☼	01/28/16 18:30	01/29/16 00:36	1
1,1,1,2-Tetrachloroethane	ND	*	6.2		ug/Kg	☼	01/28/16 18:30	01/29/16 00:36	1

TestAmerica Pleasanton

# Client Sample Results

Client: Geologica Inc  
Project/Site: Pin High

TestAmerica Job ID: 720-69933-1

**Client Sample ID: GP-5-7.5-8'**

**Lab Sample ID: 720-69933-24**

**Date Collected: 01/21/16 16:05**

**Matrix: Solid**

**Date Received: 01/22/16 17:10**

**Percent Solids: 78.0**

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND	*	6.2		ug/Kg	☼	01/28/16 18:30	01/29/16 00:36	1
Tetrachloroethene	ND		6.2		ug/Kg	☼	01/28/16 18:30	01/29/16 00:36	1
Toluene	ND	*	6.2		ug/Kg	☼	01/28/16 18:30	01/29/16 00:36	1
1,2,3-Trichlorobenzene	ND	*	6.2		ug/Kg	☼	01/28/16 18:30	01/29/16 00:36	1
1,2,4-Trichlorobenzene	ND	*	6.2		ug/Kg	☼	01/28/16 18:30	01/29/16 00:36	1
1,1,1-Trichloroethane	ND		6.2		ug/Kg	☼	01/28/16 18:30	01/29/16 00:36	1
1,1,2-Trichloroethane	ND		6.2		ug/Kg	☼	01/28/16 18:30	01/29/16 00:36	1
Trichloroethene	ND		6.2		ug/Kg	☼	01/28/16 18:30	01/29/16 00:36	1
Trichlorofluoromethane	ND		6.2		ug/Kg	☼	01/28/16 18:30	01/29/16 00:36	1
1,2,3-Trichloropropane	ND	*	6.2		ug/Kg	☼	01/28/16 18:30	01/29/16 00:36	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		6.2		ug/Kg	☼	01/28/16 18:30	01/29/16 00:36	1
1,2,4-Trimethylbenzene	ND	*	6.2		ug/Kg	☼	01/28/16 18:30	01/29/16 00:36	1
1,3,5-Trimethylbenzene	ND	*	6.2		ug/Kg	☼	01/28/16 18:30	01/29/16 00:36	1
Vinyl acetate	ND		25		ug/Kg	☼	01/28/16 18:30	01/29/16 00:36	1
Vinyl chloride	ND		6.2		ug/Kg	☼	01/28/16 18:30	01/29/16 00:36	1
Xylenes, Total	ND		12		ug/Kg	☼	01/28/16 18:30	01/29/16 00:36	1
2,2-Dichloropropane	ND		6.2		ug/Kg	☼	01/28/16 18:30	01/29/16 00:36	1
Gasoline Range Organics (GRO) -C5-C12	ND		310		ug/Kg	☼	01/28/16 18:30	01/29/16 00:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	61	*	45 - 131	01/28/16 18:30	01/29/16 00:36	1
1,2-Dichloroethane-d4 (Surr)	115		60 - 140	01/28/16 18:30	01/29/16 00:36	1
Toluene-d8 (Surr)	93		58 - 140	01/28/16 18:30	01/29/16 00:36	1

## Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	46		1.3		mg/Kg	☼	01/27/16 21:05	01/29/16 04:02	1
Motor Oil Range Organics [C24-C36]	98		63		mg/Kg	☼	01/27/16 21:05	01/29/16 04:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Capric Acid (Surr)	0.4		0 - 1	01/27/16 21:05	01/29/16 04:02	1
p-Terphenyl	47		38 - 148	01/27/16 21:05	01/29/16 04:02	1

## Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		2.0		mg/Kg	☼	01/26/16 14:13	01/27/16 22:31	4
Arsenic	7.5		4.1		mg/Kg	☼	01/26/16 14:13	01/27/16 22:31	4
Barium	510		2.0		mg/Kg	☼	01/26/16 14:13	01/27/16 22:31	4
Beryllium	ND		0.41		mg/Kg	☼	01/26/16 14:13	01/27/16 22:31	4
Cadmium	2.8		0.51		mg/Kg	☼	01/26/16 14:13	01/27/16 22:31	4
Chromium	39		2.0		mg/Kg	☼	01/26/16 14:13	01/27/16 22:31	4
Cobalt	13		0.81		mg/Kg	☼	01/26/16 14:13	01/27/16 22:31	4
Copper	140		6.1		mg/Kg	☼	01/26/16 14:13	01/27/16 22:31	4
Lead	290		2.0		mg/Kg	☼	01/26/16 14:13	01/27/16 22:31	4
Molybdenum	ND		2.0		mg/Kg	☼	01/26/16 14:13	01/27/16 22:31	4
Nickel	50		2.0		mg/Kg	☼	01/26/16 14:13	01/27/16 22:31	4
Selenium	ND		4.1		mg/Kg	☼	01/26/16 14:13	01/27/16 22:31	4
Silver	ND		1.0		mg/Kg	☼	01/26/16 14:13	01/27/16 22:31	4
Thallium	ND		2.0		mg/Kg	☼	01/26/16 14:13	01/27/16 22:31	4

TestAmerica Pleasanton

# Client Sample Results

Client: Geologica Inc  
Project/Site: Pin High

TestAmerica Job ID: 720-69933-1

**Client Sample ID: GP-5-7.5-8'**

**Lab Sample ID: 720-69933-24**

**Date Collected: 01/21/16 16:05**

**Matrix: Solid**

**Date Received: 01/22/16 17:10**

**Percent Solids: 78.0**

**Method: 6010B - Metals (ICP) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vanadium	38		2.0		mg/Kg	☼	01/26/16 14:13	01/27/16 22:31	4
Zinc	1100		6.1		mg/Kg	☼	01/26/16 14:13	01/27/16 22:31	4

**Method: 7471A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	1.1		0.011		mg/Kg	☼	01/26/16 17:30	01/27/16 17:19	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	22		0.10		%	-		01/27/16 09:39	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

# Client Sample Results

Client: Geologica Inc  
Project/Site: Pin High

TestAmerica Job ID: 720-69933-1

**Client Sample ID: GP-6-3.5-4'**

**Lab Sample ID: 720-69933-27**

**Date Collected: 01/21/16 16:30**

**Matrix: Solid**

**Date Received: 01/22/16 17:10**

**Percent Solids: 86.8**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		5.5		ug/Kg	☼	01/28/16 18:30	01/29/16 01:07	1
Acetone	ND		55		ug/Kg	☼	01/28/16 18:30	01/29/16 01:07	1
Benzene	ND		5.5		ug/Kg	☼	01/28/16 18:30	01/29/16 01:07	1
Dichlorobromomethane	ND		5.5		ug/Kg	☼	01/28/16 18:30	01/29/16 01:07	1
Bromobenzene	ND		5.5		ug/Kg	☼	01/28/16 18:30	01/29/16 01:07	1
Chlorobromomethane	ND		22		ug/Kg	☼	01/28/16 18:30	01/29/16 01:07	1
Bromoform	ND		5.5		ug/Kg	☼	01/28/16 18:30	01/29/16 01:07	1
Bromomethane	ND		11		ug/Kg	☼	01/28/16 18:30	01/29/16 01:07	1
2-Butanone (MEK)	ND		55		ug/Kg	☼	01/28/16 18:30	01/29/16 01:07	1
n-Butylbenzene	ND		5.5		ug/Kg	☼	01/28/16 18:30	01/29/16 01:07	1
sec-Butylbenzene	ND		5.5		ug/Kg	☼	01/28/16 18:30	01/29/16 01:07	1
tert-Butylbenzene	ND		5.5		ug/Kg	☼	01/28/16 18:30	01/29/16 01:07	1
Carbon disulfide	ND		5.5		ug/Kg	☼	01/28/16 18:30	01/29/16 01:07	1
Carbon tetrachloride	ND		5.5		ug/Kg	☼	01/28/16 18:30	01/29/16 01:07	1
Chlorobenzene	ND		5.5		ug/Kg	☼	01/28/16 18:30	01/29/16 01:07	1
Chloroethane	ND		11		ug/Kg	☼	01/28/16 18:30	01/29/16 01:07	1
Chloroform	ND		5.5		ug/Kg	☼	01/28/16 18:30	01/29/16 01:07	1
Chloromethane	ND		11		ug/Kg	☼	01/28/16 18:30	01/29/16 01:07	1
2-Chlorotoluene	ND		5.5		ug/Kg	☼	01/28/16 18:30	01/29/16 01:07	1
4-Chlorotoluene	ND		5.5		ug/Kg	☼	01/28/16 18:30	01/29/16 01:07	1
Chlorodibromomethane	ND		5.5		ug/Kg	☼	01/28/16 18:30	01/29/16 01:07	1
1,2-Dichlorobenzene	ND		5.5		ug/Kg	☼	01/28/16 18:30	01/29/16 01:07	1
1,3-Dichlorobenzene	ND		5.5		ug/Kg	☼	01/28/16 18:30	01/29/16 01:07	1
1,4-Dichlorobenzene	ND		5.5		ug/Kg	☼	01/28/16 18:30	01/29/16 01:07	1
1,3-Dichloropropane	ND		5.5		ug/Kg	☼	01/28/16 18:30	01/29/16 01:07	1
1,1-Dichloropropene	ND		5.5		ug/Kg	☼	01/28/16 18:30	01/29/16 01:07	1
1,2-Dibromo-3-Chloropropane	ND		11		ug/Kg	☼	01/28/16 18:30	01/29/16 01:07	1
Ethylene Dibromide	ND		5.5		ug/Kg	☼	01/28/16 18:30	01/29/16 01:07	1
Dibromomethane	ND		11		ug/Kg	☼	01/28/16 18:30	01/29/16 01:07	1
Dichlorodifluoromethane	ND		11		ug/Kg	☼	01/28/16 18:30	01/29/16 01:07	1
1,1-Dichloroethane	ND		5.5		ug/Kg	☼	01/28/16 18:30	01/29/16 01:07	1
1,2-Dichloroethane	ND		5.5		ug/Kg	☼	01/28/16 18:30	01/29/16 01:07	1
1,1-Dichloroethene	ND		5.5		ug/Kg	☼	01/28/16 18:30	01/29/16 01:07	1
cis-1,2-Dichloroethene	ND		5.5		ug/Kg	☼	01/28/16 18:30	01/29/16 01:07	1
trans-1,2-Dichloroethene	ND		5.5		ug/Kg	☼	01/28/16 18:30	01/29/16 01:07	1
1,2-Dichloropropane	ND		5.5		ug/Kg	☼	01/28/16 18:30	01/29/16 01:07	1
cis-1,3-Dichloropropene	ND		5.5		ug/Kg	☼	01/28/16 18:30	01/29/16 01:07	1
trans-1,3-Dichloropropene	ND		5.5		ug/Kg	☼	01/28/16 18:30	01/29/16 01:07	1
Ethylbenzene	ND		5.5		ug/Kg	☼	01/28/16 18:30	01/29/16 01:07	1
Hexachlorobutadiene	ND		5.5		ug/Kg	☼	01/28/16 18:30	01/29/16 01:07	1
2-Hexanone	ND		55		ug/Kg	☼	01/28/16 18:30	01/29/16 01:07	1
Isopropylbenzene	ND		5.5		ug/Kg	☼	01/28/16 18:30	01/29/16 01:07	1
4-Isopropyltoluene	ND		5.5		ug/Kg	☼	01/28/16 18:30	01/29/16 01:07	1
Methylene Chloride	ND		11		ug/Kg	☼	01/28/16 18:30	01/29/16 01:07	1
4-Methyl-2-pentanone (MIBK)	ND		55		ug/Kg	☼	01/28/16 18:30	01/29/16 01:07	1
Naphthalene	ND		11		ug/Kg	☼	01/28/16 18:30	01/29/16 01:07	1
N-Propylbenzene	ND		5.5		ug/Kg	☼	01/28/16 18:30	01/29/16 01:07	1
Styrene	ND		5.5		ug/Kg	☼	01/28/16 18:30	01/29/16 01:07	1
1,1,1,2-Tetrachloroethane	ND		5.5		ug/Kg	☼	01/28/16 18:30	01/29/16 01:07	1

TestAmerica Pleasanton



# Client Sample Results

Client: Geologica Inc  
Project/Site: Pin High

TestAmerica Job ID: 720-69933-1

**Client Sample ID: GP-6-3.5-4'**

**Lab Sample ID: 720-69933-27**

**Date Collected: 01/21/16 16:30**

**Matrix: Solid**

**Date Received: 01/22/16 17:10**

**Percent Solids: 86.8**

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		5.5		ug/Kg	☼	01/28/16 18:30	01/29/16 01:07	1
Tetrachloroethene	ND		5.5		ug/Kg	☼	01/28/16 18:30	01/29/16 01:07	1
Toluene	ND		5.5		ug/Kg	☼	01/28/16 18:30	01/29/16 01:07	1
1,2,3-Trichlorobenzene	ND		5.5		ug/Kg	☼	01/28/16 18:30	01/29/16 01:07	1
1,2,4-Trichlorobenzene	ND		5.5		ug/Kg	☼	01/28/16 18:30	01/29/16 01:07	1
1,1,1-Trichloroethane	ND		5.5		ug/Kg	☼	01/28/16 18:30	01/29/16 01:07	1
1,1,2-Trichloroethane	ND		5.5		ug/Kg	☼	01/28/16 18:30	01/29/16 01:07	1
Trichloroethene	ND		5.5		ug/Kg	☼	01/28/16 18:30	01/29/16 01:07	1
Trichlorofluoromethane	ND		5.5		ug/Kg	☼	01/28/16 18:30	01/29/16 01:07	1
1,2,3-Trichloropropane	ND		5.5		ug/Kg	☼	01/28/16 18:30	01/29/16 01:07	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.5		ug/Kg	☼	01/28/16 18:30	01/29/16 01:07	1
1,2,4-Trimethylbenzene	ND		5.5		ug/Kg	☼	01/28/16 18:30	01/29/16 01:07	1
1,3,5-Trimethylbenzene	ND		5.5		ug/Kg	☼	01/28/16 18:30	01/29/16 01:07	1
Vinyl acetate	ND		22		ug/Kg	☼	01/28/16 18:30	01/29/16 01:07	1
Vinyl chloride	ND		5.5		ug/Kg	☼	01/28/16 18:30	01/29/16 01:07	1
Xylenes, Total	ND		11		ug/Kg	☼	01/28/16 18:30	01/29/16 01:07	1
2,2-Dichloropropane	ND		5.5		ug/Kg	☼	01/28/16 18:30	01/29/16 01:07	1
Gasoline Range Organics (GRO) -C5-C12	ND		270		ug/Kg	☼	01/28/16 18:30	01/29/16 01:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	79		45 - 131	01/28/16 18:30	01/29/16 01:07	1
1,2-Dichloroethane-d4 (Surr)	113		60 - 140	01/28/16 18:30	01/29/16 01:07	1
Toluene-d8 (Surr)	95		58 - 140	01/28/16 18:30	01/29/16 01:07	1

## Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	25		1.1		mg/Kg	☼	01/27/16 20:37	01/29/16 02:34	1
Motor Oil Range Organics [C24-C36]	99		57		mg/Kg	☼	01/27/16 20:37	01/29/16 02:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Capric Acid (Surr)	0.4		0 - 1	01/27/16 20:37	01/29/16 02:34	1
p-Terphenyl	70		38 - 148	01/27/16 20:37	01/29/16 02:34	1

## Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		2.3		ug/Kg	☼	01/27/16 15:48	01/28/16 16:12	1
Dieldrin	11		2.3		ug/Kg	☼	01/27/16 15:48	01/28/16 16:12	1
Endrin aldehyde	ND		2.3		ug/Kg	☼	01/27/16 15:48	01/28/16 16:12	1
Endrin	ND		2.3		ug/Kg	☼	01/27/16 15:48	01/28/16 16:12	1
Endrin ketone	ND		2.3		ug/Kg	☼	01/27/16 15:48	01/28/16 16:12	1
Heptachlor	ND		2.3		ug/Kg	☼	01/27/16 15:48	01/28/16 16:12	1
Heptachlor epoxide	ND		2.3		ug/Kg	☼	01/27/16 15:48	01/28/16 16:12	1
4,4'-DDT	11		2.3		ug/Kg	☼	01/27/16 15:48	01/28/16 16:12	1
4,4'-DDE	18		2.3		ug/Kg	☼	01/27/16 15:48	01/28/16 16:12	1
4,4'-DDD	4.4		2.3		ug/Kg	☼	01/27/16 15:48	01/28/16 16:12	1
Endosulfan I	ND		2.3		ug/Kg	☼	01/27/16 15:48	01/28/16 16:12	1
Endosulfan II	ND		2.3		ug/Kg	☼	01/27/16 15:48	01/28/16 16:12	1
alpha-BHC	ND		2.3		ug/Kg	☼	01/27/16 15:48	01/28/16 16:12	1
beta-BHC	ND		2.3		ug/Kg	☼	01/27/16 15:48	01/28/16 16:12	1

TestAmerica Pleasanton



# Client Sample Results

Client: Geologica Inc  
Project/Site: Pin High

TestAmerica Job ID: 720-69933-1

**Client Sample ID: GP-6-3.5-4'**

**Lab Sample ID: 720-69933-27**

**Date Collected: 01/21/16 16:30**

**Matrix: Solid**

**Date Received: 01/22/16 17:10**

**Percent Solids: 86.8**

## Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
gamma-BHC (Lindane)	ND		2.3		ug/Kg	☼	01/27/16 15:48	01/28/16 16:12	1
delta-BHC	ND		2.3		ug/Kg	☼	01/27/16 15:48	01/28/16 16:12	1
Endosulfan sulfate	ND		2.3		ug/Kg	☼	01/27/16 15:48	01/28/16 16:12	1
Methoxychlor	ND		2.3		ug/Kg	☼	01/27/16 15:48	01/28/16 16:12	1
Toxaphene	ND		46		ug/Kg	☼	01/27/16 15:48	01/28/16 16:12	1
Chlordane (technical)	ND		46		ug/Kg	☼	01/27/16 15:48	01/28/16 16:12	1
alpha-Chlordane	ND		2.3		ug/Kg	☼	01/27/16 15:48	01/28/16 16:12	1
gamma-Chlordane	ND		2.3		ug/Kg	☼	01/27/16 15:48	01/28/16 16:12	1
Hexachlorobenzene	ND		2.3		ug/Kg	☼	01/27/16 15:48	01/28/16 16:12	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Tetrachloro-m-xylene	100		57 - 122				01/27/16 15:48	01/28/16 16:12	1
DCB Decachlorobiphenyl	83		21 - 136				01/27/16 15:48	01/28/16 16:12	1

## Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		57		ug/Kg	☼	01/27/16 15:59	01/28/16 17:32	1
PCB-1221	ND		57		ug/Kg	☼	01/27/16 15:59	01/28/16 17:32	1
PCB-1232	ND		57		ug/Kg	☼	01/27/16 15:59	01/28/16 17:32	1
PCB-1242	ND		57		ug/Kg	☼	01/27/16 15:59	01/28/16 17:32	1
PCB-1248	ND		57		ug/Kg	☼	01/27/16 15:59	01/28/16 17:32	1
PCB-1254	ND		57		ug/Kg	☼	01/27/16 15:59	01/28/16 17:32	1
PCB-1260	ND		57		ug/Kg	☼	01/27/16 15:59	01/28/16 17:32	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Tetrachloro-m-xylene	77		45 - 132				01/27/16 15:59	01/28/16 17:32	1
DCB Decachlorobiphenyl	69		42 - 146				01/27/16 15:59	01/28/16 17:32	1

## Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.43		mg/Kg	☼	01/26/16 14:13	01/28/16 16:22	1
<b>Arsenic</b>	<b>2.7</b>		0.85		mg/Kg	☼	01/26/16 14:13	01/28/16 16:22	1
<b>Barium</b>	<b>38</b>		1.7		mg/Kg	☼	01/26/16 14:13	01/27/16 22:36	4
<b>Beryllium</b>	<b>0.095</b>		0.085		mg/Kg	☼	01/26/16 14:13	01/28/16 16:22	1
Cadmium	ND		0.11		mg/Kg	☼	01/26/16 14:13	01/28/16 16:22	1
<b>Chromium</b>	<b>24</b>		1.7		mg/Kg	☼	01/26/16 14:13	01/27/16 22:36	4
<b>Cobalt</b>	<b>3.9</b>		0.68		mg/Kg	☼	01/26/16 14:13	01/27/16 22:36	4
<b>Copper</b>	<b>20</b>		5.1		mg/Kg	☼	01/26/16 14:13	01/27/16 22:36	4
<b>Lead</b>	<b>23</b>		1.7		mg/Kg	☼	01/26/16 14:13	01/27/16 22:36	4
<b>Molybdenum</b>	<b>4.5</b>		1.7		mg/Kg	☼	01/26/16 14:13	01/27/16 22:36	4
<b>Nickel</b>	<b>40</b>		1.7		mg/Kg	☼	01/26/16 14:13	01/27/16 22:36	4
Selenium	ND		0.85		mg/Kg	☼	01/26/16 14:13	01/28/16 16:22	1
Silver	ND		0.21		mg/Kg	☼	01/26/16 14:13	01/28/16 16:22	1
Thallium	ND		0.43		mg/Kg	☼	01/26/16 14:13	01/28/16 16:22	1
<b>Vanadium</b>	<b>14</b>		1.7		mg/Kg	☼	01/26/16 14:13	01/27/16 22:36	4
<b>Zinc</b>	<b>28</b>		5.1		mg/Kg	☼	01/26/16 14:13	01/27/16 22:36	4

## Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.081</b>		0.011		mg/Kg	☼	01/26/16 17:30	01/27/16 17:21	1

TestAmerica Pleasanton

# Client Sample Results

Client: Geologica Inc  
Project/Site: Pin High

TestAmerica Job ID: 720-69933-1

**Client Sample ID: GP-6-3.5-4'**

**Lab Sample ID: 720-69933-27**

**Date Collected: 01/21/16 16:30**

**Matrix: Solid**

**Date Received: 01/22/16 17:10**

**Percent Solids: 86.8**

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	13		0.10		%			01/27/16 09:39	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

# Client Sample Results

Client: Geologica Inc  
Project/Site: Pin High

TestAmerica Job ID: 720-69933-1

**Client Sample ID: GP-6-7.5-8'**

**Lab Sample ID: 720-69933-28**

**Date Collected: 01/21/16 16:32**

**Matrix: Solid**

**Date Received: 01/22/16 17:10**

**Percent Solids: 78.4**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		5.9		ug/Kg	☼	01/29/16 19:09	01/29/16 21:35	1
Acetone	ND		59		ug/Kg	☼	01/29/16 19:09	01/29/16 21:35	1
Benzene	ND		5.9		ug/Kg	☼	01/29/16 19:09	01/29/16 21:35	1
Dichlorobromomethane	ND		5.9		ug/Kg	☼	01/29/16 19:09	01/29/16 21:35	1
Bromobenzene	ND		5.9		ug/Kg	☼	01/29/16 19:09	01/29/16 21:35	1
Chlorobromomethane	ND		24		ug/Kg	☼	01/29/16 19:09	01/29/16 21:35	1
Bromoform	ND		5.9		ug/Kg	☼	01/29/16 19:09	01/29/16 21:35	1
Bromomethane	ND		12		ug/Kg	☼	01/29/16 19:09	01/29/16 21:35	1
2-Butanone (MEK)	ND		59		ug/Kg	☼	01/29/16 19:09	01/29/16 21:35	1
n-Butylbenzene	ND		5.9		ug/Kg	☼	01/29/16 19:09	01/29/16 21:35	1
sec-Butylbenzene	ND		5.9		ug/Kg	☼	01/29/16 19:09	01/29/16 21:35	1
tert-Butylbenzene	ND		5.9		ug/Kg	☼	01/29/16 19:09	01/29/16 21:35	1
Carbon disulfide	ND		5.9		ug/Kg	☼	01/29/16 19:09	01/29/16 21:35	1
Carbon tetrachloride	ND		5.9		ug/Kg	☼	01/29/16 19:09	01/29/16 21:35	1
Chlorobenzene	ND		5.9		ug/Kg	☼	01/29/16 19:09	01/29/16 21:35	1
Chloroethane	ND		12		ug/Kg	☼	01/29/16 19:09	01/29/16 21:35	1
Chloroform	ND		5.9		ug/Kg	☼	01/29/16 19:09	01/29/16 21:35	1
Chloromethane	ND		12		ug/Kg	☼	01/29/16 19:09	01/29/16 21:35	1
2-Chlorotoluene	ND		5.9		ug/Kg	☼	01/29/16 19:09	01/29/16 21:35	1
4-Chlorotoluene	ND		5.9		ug/Kg	☼	01/29/16 19:09	01/29/16 21:35	1
Chlorodibromomethane	ND		5.9		ug/Kg	☼	01/29/16 19:09	01/29/16 21:35	1
1,2-Dichlorobenzene	ND		5.9		ug/Kg	☼	01/29/16 19:09	01/29/16 21:35	1
1,3-Dichlorobenzene	ND		5.9		ug/Kg	☼	01/29/16 19:09	01/29/16 21:35	1
1,4-Dichlorobenzene	ND		5.9		ug/Kg	☼	01/29/16 19:09	01/29/16 21:35	1
1,3-Dichloropropane	ND		5.9		ug/Kg	☼	01/29/16 19:09	01/29/16 21:35	1
1,1-Dichloropropane	ND		5.9		ug/Kg	☼	01/29/16 19:09	01/29/16 21:35	1
1,2-Dibromo-3-Chloropropane	ND		12		ug/Kg	☼	01/29/16 19:09	01/29/16 21:35	1
Ethylene Dibromide	ND		5.9		ug/Kg	☼	01/29/16 19:09	01/29/16 21:35	1
Dibromomethane	ND		12		ug/Kg	☼	01/29/16 19:09	01/29/16 21:35	1
Dichlorodifluoromethane	ND		12		ug/Kg	☼	01/29/16 19:09	01/29/16 21:35	1
1,1-Dichloroethane	ND		5.9		ug/Kg	☼	01/29/16 19:09	01/29/16 21:35	1
1,2-Dichloroethane	ND		5.9		ug/Kg	☼	01/29/16 19:09	01/29/16 21:35	1
1,1-Dichloroethene	ND		5.9		ug/Kg	☼	01/29/16 19:09	01/29/16 21:35	1
cis-1,2-Dichloroethene	ND		5.9		ug/Kg	☼	01/29/16 19:09	01/29/16 21:35	1
trans-1,2-Dichloroethene	ND		5.9		ug/Kg	☼	01/29/16 19:09	01/29/16 21:35	1
1,2-Dichloropropane	ND		5.9		ug/Kg	☼	01/29/16 19:09	01/29/16 21:35	1
cis-1,3-Dichloropropene	ND		5.9		ug/Kg	☼	01/29/16 19:09	01/29/16 21:35	1
trans-1,3-Dichloropropene	ND		5.9		ug/Kg	☼	01/29/16 19:09	01/29/16 21:35	1
Ethylbenzene	ND		5.9		ug/Kg	☼	01/29/16 19:09	01/29/16 21:35	1
Hexachlorobutadiene	ND		5.9		ug/Kg	☼	01/29/16 19:09	01/29/16 21:35	1
2-Hexanone	ND		59		ug/Kg	☼	01/29/16 19:09	01/29/16 21:35	1
Isopropylbenzene	ND		5.9		ug/Kg	☼	01/29/16 19:09	01/29/16 21:35	1
4-Isopropyltoluene	ND		5.9		ug/Kg	☼	01/29/16 19:09	01/29/16 21:35	1
Methylene Chloride	ND		12		ug/Kg	☼	01/29/16 19:09	01/29/16 21:35	1
4-Methyl-2-pentanone (MIBK)	ND		59		ug/Kg	☼	01/29/16 19:09	01/29/16 21:35	1
Naphthalene	ND		12		ug/Kg	☼	01/29/16 19:09	01/29/16 21:35	1
N-Propylbenzene	ND		5.9		ug/Kg	☼	01/29/16 19:09	01/29/16 21:35	1
Styrene	ND		5.9		ug/Kg	☼	01/29/16 19:09	01/29/16 21:35	1
1,1,1,2-Tetrachloroethane	ND		5.9		ug/Kg	☼	01/29/16 19:09	01/29/16 21:35	1

TestAmerica Pleasanton

# Client Sample Results

Client: Geologica Inc  
Project/Site: Pin High

TestAmerica Job ID: 720-69933-1

**Client Sample ID: GP-6-7.5-8'**

**Lab Sample ID: 720-69933-28**

**Date Collected: 01/21/16 16:32**

**Matrix: Solid**

**Date Received: 01/22/16 17:10**

**Percent Solids: 78.4**

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		5.9		ug/Kg	☼	01/29/16 19:09	01/29/16 21:35	1
Tetrachloroethene	ND		5.9		ug/Kg	☼	01/29/16 19:09	01/29/16 21:35	1
Toluene	ND		5.9		ug/Kg	☼	01/29/16 19:09	01/29/16 21:35	1
1,2,3-Trichlorobenzene	ND		5.9		ug/Kg	☼	01/29/16 19:09	01/29/16 21:35	1
1,2,4-Trichlorobenzene	ND		5.9		ug/Kg	☼	01/29/16 19:09	01/29/16 21:35	1
1,1,1-Trichloroethane	ND		5.9		ug/Kg	☼	01/29/16 19:09	01/29/16 21:35	1
1,1,2-Trichloroethane	ND		5.9		ug/Kg	☼	01/29/16 19:09	01/29/16 21:35	1
Trichloroethene	ND		5.9		ug/Kg	☼	01/29/16 19:09	01/29/16 21:35	1
Trichlorofluoromethane	ND		5.9		ug/Kg	☼	01/29/16 19:09	01/29/16 21:35	1
1,2,3-Trichloropropane	ND		5.9		ug/Kg	☼	01/29/16 19:09	01/29/16 21:35	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.9		ug/Kg	☼	01/29/16 19:09	01/29/16 21:35	1
1,2,4-Trimethylbenzene	ND		5.9		ug/Kg	☼	01/29/16 19:09	01/29/16 21:35	1
1,3,5-Trimethylbenzene	ND		5.9		ug/Kg	☼	01/29/16 19:09	01/29/16 21:35	1
Vinyl acetate	ND		24		ug/Kg	☼	01/29/16 19:09	01/29/16 21:35	1
Vinyl chloride	ND		5.9		ug/Kg	☼	01/29/16 19:09	01/29/16 21:35	1
Xylenes, Total	ND		12		ug/Kg	☼	01/29/16 19:09	01/29/16 21:35	1
2,2-Dichloropropane	ND		5.9		ug/Kg	☼	01/29/16 19:09	01/29/16 21:35	1
Gasoline Range Organics (GRO) -C5-C12	ND		290		ug/Kg	☼	01/29/16 19:09	01/29/16 21:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	89		45 - 131	01/29/16 19:09	01/29/16 21:35	1
1,2-Dichloroethane-d4 (Surr)	105		60 - 140	01/29/16 19:09	01/29/16 21:35	1
Toluene-d8 (Surr)	101		58 - 140	01/29/16 19:09	01/29/16 21:35	1

## Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Diesel Range Organics [C10-C28]</b>	<b>9.0</b>		1.3		mg/Kg	☼	01/27/16 20:37	01/28/16 23:39	1
Motor Oil Range Organics [C24-C36]	ND		63		mg/Kg	☼	01/27/16 20:37	01/28/16 23:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Capric Acid (Surr)	0.04		0 - 1	01/27/16 20:37	01/28/16 23:39	1
p-Terphenyl	73		38 - 148	01/27/16 20:37	01/28/16 23:39	1

## Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		2.5		ug/Kg	☼	01/27/16 15:48	01/28/16 16:46	1
<b>Dieldrin</b>	<b>4.1</b>		2.5		ug/Kg	☼	01/27/16 15:48	01/28/16 16:46	1
Endrin aldehyde	ND		2.5		ug/Kg	☼	01/27/16 15:48	01/28/16 16:46	1
Endrin	ND		2.5		ug/Kg	☼	01/27/16 15:48	01/28/16 16:46	1
Endrin ketone	ND		2.5		ug/Kg	☼	01/27/16 15:48	01/28/16 16:46	1
Heptachlor	ND		2.5		ug/Kg	☼	01/27/16 15:48	01/28/16 16:46	1
Heptachlor epoxide	ND		2.5		ug/Kg	☼	01/27/16 15:48	01/28/16 16:46	1
<b>4,4'-DDT</b>	<b>3.4 p</b>		2.5		ug/Kg	☼	01/27/16 15:48	01/28/16 16:46	1
<b>4,4'-DDE</b>	<b>35</b>		2.5		ug/Kg	☼	01/27/16 15:48	01/28/16 16:46	1
<b>4,4'-DDD</b>	<b>62</b>		2.5		ug/Kg	☼	01/27/16 15:48	01/28/16 16:46	1
Endosulfan I	ND		2.5		ug/Kg	☼	01/27/16 15:48	01/28/16 16:46	1
Endosulfan II	ND		2.5		ug/Kg	☼	01/27/16 15:48	01/28/16 16:46	1
alpha-BHC	ND		2.5		ug/Kg	☼	01/27/16 15:48	01/28/16 16:46	1
beta-BHC	ND		2.5		ug/Kg	☼	01/27/16 15:48	01/28/16 16:46	1
gamma-BHC (Lindane)	ND		2.5		ug/Kg	☼	01/27/16 15:48	01/28/16 16:46	1

TestAmerica Pleasanton

# Client Sample Results

Client: Geologica Inc  
Project/Site: Pin High

TestAmerica Job ID: 720-69933-1

**Client Sample ID: GP-6-7.5-8'**

**Lab Sample ID: 720-69933-28**

**Date Collected: 01/21/16 16:32**

**Matrix: Solid**

**Date Received: 01/22/16 17:10**

**Percent Solids: 78.4**

## Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
delta-BHC	ND		2.5		ug/Kg	☼	01/27/16 15:48	01/28/16 16:46	1
Endosulfan sulfate	ND		2.5		ug/Kg	☼	01/27/16 15:48	01/28/16 16:46	1
Methoxychlor	ND		2.5		ug/Kg	☼	01/27/16 15:48	01/28/16 16:46	1
Toxaphene	ND		50		ug/Kg	☼	01/27/16 15:48	01/28/16 16:46	1
Chlordane (technical)	ND		50		ug/Kg	☼	01/27/16 15:48	01/28/16 16:46	1
alpha-Chlordane	ND		2.5		ug/Kg	☼	01/27/16 15:48	01/28/16 16:46	1
gamma-Chlordane	ND		2.5		ug/Kg	☼	01/27/16 15:48	01/28/16 16:46	1
Hexachlorobenzene	ND		2.5		ug/Kg	☼	01/27/16 15:48	01/28/16 16:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	92		57 - 122	01/27/16 15:48	01/28/16 16:46	1
DCB Decachlorobiphenyl	273	X	21 - 136	01/27/16 15:48	01/28/16 16:46	1

## Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		62		ug/Kg	☼	01/27/16 15:59	01/28/16 20:51	1
PCB-1221	ND		62		ug/Kg	☼	01/27/16 15:59	01/28/16 20:51	1
PCB-1232	ND		62		ug/Kg	☼	01/27/16 15:59	01/28/16 20:51	1
PCB-1242	ND		62		ug/Kg	☼	01/27/16 15:59	01/28/16 20:51	1
PCB-1248	ND		62		ug/Kg	☼	01/27/16 15:59	01/28/16 20:51	1
PCB-1254	ND		62		ug/Kg	☼	01/27/16 15:59	01/28/16 20:51	1
<b>PCB-1260</b>	<b>130</b>		62		ug/Kg	☼	01/27/16 15:59	01/28/16 20:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	72		45 - 132	01/27/16 15:59	01/28/16 20:51	1
DCB Decachlorobiphenyl	201	X	42 - 146	01/27/16 15:59	01/28/16 20:51	1

## Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Antimony</b>	<b>6.7</b>		2.4		mg/Kg	☼	01/26/16 14:13	01/27/16 22:41	4
<b>Arsenic</b>	<b>11</b>		4.8		mg/Kg	☼	01/26/16 14:13	01/27/16 22:41	4
<b>Barium</b>	<b>650</b>		2.4		mg/Kg	☼	01/26/16 14:13	01/27/16 22:41	4
Beryllium	ND		0.48		mg/Kg	☼	01/26/16 14:13	01/27/16 22:41	4
<b>Cadmium</b>	<b>4.9</b>		0.60		mg/Kg	☼	01/26/16 14:13	01/27/16 22:41	4
<b>Chromium</b>	<b>65</b>		2.4		mg/Kg	☼	01/26/16 14:13	01/27/16 22:41	4
<b>Cobalt</b>	<b>15</b>		0.95		mg/Kg	☼	01/26/16 14:13	01/27/16 22:41	4
<b>Copper</b>	<b>99</b>		7.2		mg/Kg	☼	01/26/16 14:13	01/27/16 22:41	4
<b>Lead</b>	<b>710</b>		2.4		mg/Kg	☼	01/26/16 14:13	01/27/16 22:41	4
Molybdenum	ND		2.4		mg/Kg	☼	01/26/16 14:13	01/27/16 22:41	4
<b>Nickel</b>	<b>79</b>		2.4		mg/Kg	☼	01/26/16 14:13	01/27/16 22:41	4
Selenium	ND		4.8		mg/Kg	☼	01/26/16 14:13	01/27/16 22:41	4
Silver	ND		1.2		mg/Kg	☼	01/26/16 14:13	01/27/16 22:41	4
Thallium	ND		2.4		mg/Kg	☼	01/26/16 14:13	01/27/16 22:41	4
<b>Vanadium</b>	<b>47</b>		2.4		mg/Kg	☼	01/26/16 14:13	01/27/16 22:41	4
<b>Zinc</b>	<b>460</b>		7.2		mg/Kg	☼	01/26/16 14:13	01/27/16 22:41	4

## Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.16</b>		0.011		mg/Kg	☼	01/26/16 17:30	01/27/16 17:28	1

TestAmerica Pleasanton

# Client Sample Results

Client: Geologica Inc  
Project/Site: Pin High

TestAmerica Job ID: 720-69933-1

**Client Sample ID: GP-6-7.5-8'**

**Lab Sample ID: 720-69933-28**

**Date Collected: 01/21/16 16:32**

**Matrix: Solid**

**Date Received: 01/22/16 17:10**

**Percent Solids: 78.4**

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	22		0.10		%			01/27/16 09:39	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

# Client Sample Results

Client: Geologica Inc  
Project/Site: Pin High

TestAmerica Job ID: 720-69933-1

**Client Sample ID: GP-7-3.5-4'**

**Lab Sample ID: 720-69933-31**

**Date Collected: 01/22/16 08:40**

**Matrix: Solid**

**Date Received: 01/22/16 17:10**

**Percent Solids: 82.1**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		6.0		ug/Kg	☼	01/27/16 19:40	01/28/16 16:56	1
Acetone	ND		60		ug/Kg	☼	01/27/16 19:40	01/28/16 16:56	1
Benzene	ND		6.0		ug/Kg	☼	01/27/16 19:40	01/28/16 16:56	1
Dichlorobromomethane	ND		6.0		ug/Kg	☼	01/27/16 19:40	01/28/16 16:56	1
Bromobenzene	ND		6.0		ug/Kg	☼	01/27/16 19:40	01/28/16 16:56	1
Chlorobromomethane	ND		24		ug/Kg	☼	01/27/16 19:40	01/28/16 16:56	1
Bromoform	ND		6.0		ug/Kg	☼	01/27/16 19:40	01/28/16 16:56	1
Bromomethane	ND		12		ug/Kg	☼	01/27/16 19:40	01/28/16 16:56	1
2-Butanone (MEK)	ND		60		ug/Kg	☼	01/27/16 19:40	01/28/16 16:56	1
n-Butylbenzene	ND		6.0		ug/Kg	☼	01/27/16 19:40	01/28/16 16:56	1
sec-Butylbenzene	ND		6.0		ug/Kg	☼	01/27/16 19:40	01/28/16 16:56	1
tert-Butylbenzene	ND		6.0		ug/Kg	☼	01/27/16 19:40	01/28/16 16:56	1
Carbon disulfide	ND		6.0		ug/Kg	☼	01/27/16 19:40	01/28/16 16:56	1
Carbon tetrachloride	ND		6.0		ug/Kg	☼	01/27/16 19:40	01/28/16 16:56	1
Chlorobenzene	ND		6.0		ug/Kg	☼	01/27/16 19:40	01/28/16 16:56	1
Chloroethane	ND		12		ug/Kg	☼	01/27/16 19:40	01/28/16 16:56	1
Chloroform	ND		6.0		ug/Kg	☼	01/27/16 19:40	01/28/16 16:56	1
Chloromethane	ND		12		ug/Kg	☼	01/27/16 19:40	01/28/16 16:56	1
2-Chlorotoluene	ND		6.0		ug/Kg	☼	01/27/16 19:40	01/28/16 16:56	1
4-Chlorotoluene	ND		6.0		ug/Kg	☼	01/27/16 19:40	01/28/16 16:56	1
Chlorodibromomethane	ND		6.0		ug/Kg	☼	01/27/16 19:40	01/28/16 16:56	1
1,2-Dichlorobenzene	ND		6.0		ug/Kg	☼	01/27/16 19:40	01/28/16 16:56	1
1,3-Dichlorobenzene	ND		6.0		ug/Kg	☼	01/27/16 19:40	01/28/16 16:56	1
1,4-Dichlorobenzene	ND		6.0		ug/Kg	☼	01/27/16 19:40	01/28/16 16:56	1
1,3-Dichloropropane	ND		6.0		ug/Kg	☼	01/27/16 19:40	01/28/16 16:56	1
1,1-Dichloropropane	ND		6.0		ug/Kg	☼	01/27/16 19:40	01/28/16 16:56	1
1,2-Dibromo-3-Chloropropane	ND		12		ug/Kg	☼	01/27/16 19:40	01/28/16 16:56	1
Ethylene Dibromide	ND		6.0		ug/Kg	☼	01/27/16 19:40	01/28/16 16:56	1
Dibromomethane	ND		12		ug/Kg	☼	01/27/16 19:40	01/28/16 16:56	1
Dichlorodifluoromethane	ND		12		ug/Kg	☼	01/27/16 19:40	01/28/16 16:56	1
1,1-Dichloroethane	ND		6.0		ug/Kg	☼	01/27/16 19:40	01/28/16 16:56	1
1,2-Dichloroethane	ND		6.0		ug/Kg	☼	01/27/16 19:40	01/28/16 16:56	1
1,1-Dichloroethene	ND		6.0		ug/Kg	☼	01/27/16 19:40	01/28/16 16:56	1
cis-1,2-Dichloroethene	ND		6.0		ug/Kg	☼	01/27/16 19:40	01/28/16 16:56	1
trans-1,2-Dichloroethene	ND		6.0		ug/Kg	☼	01/27/16 19:40	01/28/16 16:56	1
1,2-Dichloropropane	ND		6.0		ug/Kg	☼	01/27/16 19:40	01/28/16 16:56	1
cis-1,3-Dichloropropene	ND		6.0		ug/Kg	☼	01/27/16 19:40	01/28/16 16:56	1
trans-1,3-Dichloropropene	ND		6.0		ug/Kg	☼	01/27/16 19:40	01/28/16 16:56	1
Ethylbenzene	ND		6.0		ug/Kg	☼	01/27/16 19:40	01/28/16 16:56	1
Hexachlorobutadiene	ND		6.0		ug/Kg	☼	01/27/16 19:40	01/28/16 16:56	1
2-Hexanone	ND		60		ug/Kg	☼	01/27/16 19:40	01/28/16 16:56	1
Isopropylbenzene	ND		6.0		ug/Kg	☼	01/27/16 19:40	01/28/16 16:56	1
4-Isopropyltoluene	ND		6.0		ug/Kg	☼	01/27/16 19:40	01/28/16 16:56	1
Methylene Chloride	ND		12		ug/Kg	☼	01/27/16 19:40	01/28/16 16:56	1
4-Methyl-2-pentanone (MIBK)	ND		60		ug/Kg	☼	01/27/16 19:40	01/28/16 16:56	1
Naphthalene	ND		12		ug/Kg	☼	01/27/16 19:40	01/28/16 16:56	1
N-Propylbenzene	ND		6.0		ug/Kg	☼	01/27/16 19:40	01/28/16 16:56	1
Styrene	ND		6.0		ug/Kg	☼	01/27/16 19:40	01/28/16 16:56	1
1,1,1,2-Tetrachloroethane	ND		6.0		ug/Kg	☼	01/27/16 19:40	01/28/16 16:56	1

TestAmerica Pleasanton



# Client Sample Results

Client: Geologica Inc  
Project/Site: Pin High

TestAmerica Job ID: 720-69933-1

**Client Sample ID: GP-7-3.5-4'**

**Lab Sample ID: 720-69933-31**

**Date Collected: 01/22/16 08:40**

**Matrix: Solid**

**Date Received: 01/22/16 17:10**

**Percent Solids: 82.1**

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		6.0		ug/Kg	☼	01/27/16 19:40	01/28/16 16:56	1
Tetrachloroethene	ND		6.0		ug/Kg	☼	01/27/16 19:40	01/28/16 16:56	1
Toluene	ND		6.0		ug/Kg	☼	01/27/16 19:40	01/28/16 16:56	1
1,2,3-Trichlorobenzene	ND		6.0		ug/Kg	☼	01/27/16 19:40	01/28/16 16:56	1
1,2,4-Trichlorobenzene	ND		6.0		ug/Kg	☼	01/27/16 19:40	01/28/16 16:56	1
1,1,1-Trichloroethane	ND		6.0		ug/Kg	☼	01/27/16 19:40	01/28/16 16:56	1
1,1,2-Trichloroethane	ND		6.0		ug/Kg	☼	01/27/16 19:40	01/28/16 16:56	1
Trichloroethene	ND		6.0		ug/Kg	☼	01/27/16 19:40	01/28/16 16:56	1
Trichlorofluoromethane	ND		6.0		ug/Kg	☼	01/27/16 19:40	01/28/16 16:56	1
1,2,3-Trichloropropane	ND		6.0		ug/Kg	☼	01/27/16 19:40	01/28/16 16:56	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		6.0		ug/Kg	☼	01/27/16 19:40	01/28/16 16:56	1
1,2,4-Trimethylbenzene	ND		6.0		ug/Kg	☼	01/27/16 19:40	01/28/16 16:56	1
1,3,5-Trimethylbenzene	ND		6.0		ug/Kg	☼	01/27/16 19:40	01/28/16 16:56	1
Vinyl acetate	ND		24		ug/Kg	☼	01/27/16 19:40	01/28/16 16:56	1
Vinyl chloride	ND		6.0		ug/Kg	☼	01/27/16 19:40	01/28/16 16:56	1
Xylenes, Total	ND		12		ug/Kg	☼	01/27/16 19:40	01/28/16 16:56	1
2,2-Dichloropropane	ND		6.0		ug/Kg	☼	01/27/16 19:40	01/28/16 16:56	1
Gasoline Range Organics (GRO) -C5-C12	ND		300		ug/Kg	☼	01/27/16 19:40	01/28/16 16:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	88		45 - 131	01/27/16 19:40	01/28/16 16:56	1
1,2-Dichloroethane-d4 (Surr)	98		60 - 140	01/27/16 19:40	01/28/16 16:56	1
Toluene-d8 (Surr)	94		58 - 140	01/27/16 19:40	01/28/16 16:56	1

## Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Diesel Range Organics [C10-C28]</b>	<b>21</b>		1.2		mg/Kg	☼	01/27/16 20:37	01/29/16 01:36	1
<b>Motor Oil Range Organics [C24-C36]</b>	<b>72</b>		61		mg/Kg	☼	01/27/16 20:37	01/29/16 01:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Capric Acid (Surr)	0.02		0 - 1	01/27/16 20:37	01/29/16 01:36	1
p-Terphenyl	71		38 - 148	01/27/16 20:37	01/29/16 01:36	1

## Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		2.3		mg/Kg	☼	01/26/16 14:13	01/27/16 22:46	4
<b>Arsenic</b>	<b>7.1</b>		4.6		mg/Kg	☼	01/26/16 14:13	01/27/16 22:46	4
<b>Barium</b>	<b>150</b>		2.3		mg/Kg	☼	01/26/16 14:13	01/27/16 22:46	4
Beryllium	ND		0.46		mg/Kg	☼	01/26/16 14:13	01/27/16 22:46	4
Cadmium	ND		0.57		mg/Kg	☼	01/26/16 14:13	01/27/16 22:46	4
<b>Chromium</b>	<b>60</b>		2.3		mg/Kg	☼	01/26/16 14:13	01/27/16 22:46	4
<b>Cobalt</b>	<b>14</b>		0.91		mg/Kg	☼	01/26/16 14:13	01/27/16 22:46	4
<b>Copper</b>	<b>34</b>		6.8		mg/Kg	☼	01/26/16 14:13	01/27/16 22:46	4
<b>Lead</b>	<b>38</b>		2.3		mg/Kg	☼	01/26/16 14:13	01/27/16 22:46	4
Molybdenum	ND		2.3		mg/Kg	☼	01/26/16 14:13	01/27/16 22:46	4
<b>Nickel</b>	<b>94</b>		2.3		mg/Kg	☼	01/26/16 14:13	01/27/16 22:46	4
Selenium	ND		4.6		mg/Kg	☼	01/26/16 14:13	01/27/16 22:46	4
Silver	ND		1.1		mg/Kg	☼	01/26/16 14:13	01/27/16 22:46	4
Thallium	ND		2.3		mg/Kg	☼	01/26/16 14:13	01/27/16 22:46	4

TestAmerica Pleasanton

# Client Sample Results

Client: Geologica Inc  
Project/Site: Pin High

TestAmerica Job ID: 720-69933-1

**Client Sample ID: GP-7-3.5-4'**

**Lab Sample ID: 720-69933-31**

Date Collected: 01/22/16 08:40

Matrix: Solid

Date Received: 01/22/16 17:10

Percent Solids: 82.1

**Method: 6010B - Metals (ICP) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vanadium	39		2.3		mg/Kg	☼	01/26/16 14:13	01/27/16 22:46	4
Zinc	81		6.8		mg/Kg	☼	01/26/16 14:13	01/27/16 22:46	4

**Method: 7471A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.66		0.011		mg/Kg	☼	01/26/16 17:30	01/27/16 17:31	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	18		0.10		%	-		01/27/16 09:39	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

# Client Sample Results

Client: Geologica Inc  
Project/Site: Pin High

TestAmerica Job ID: 720-69933-1

**Client Sample ID: GP-7-7.5-8'**

**Lab Sample ID: 720-69933-32**

**Date Collected: 01/22/16 08:45**

**Matrix: Solid**

**Date Received: 01/22/16 17:10**

**Percent Solids: 78.2**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		5.6		ug/Kg	☼	01/27/16 09:20	01/27/16 15:09	1
Acetone	ND		56		ug/Kg	☼	01/27/16 09:20	01/27/16 15:09	1
Benzene	ND		5.6		ug/Kg	☼	01/27/16 09:20	01/27/16 15:09	1
Dichlorobromomethane	ND		5.6		ug/Kg	☼	01/27/16 09:20	01/27/16 15:09	1
Bromobenzene	ND		5.6		ug/Kg	☼	01/27/16 09:20	01/27/16 15:09	1
Chlorobromomethane	ND		22		ug/Kg	☼	01/27/16 09:20	01/27/16 15:09	1
Bromoform	ND		5.6		ug/Kg	☼	01/27/16 09:20	01/27/16 15:09	1
Bromomethane	ND		11		ug/Kg	☼	01/27/16 09:20	01/27/16 15:09	1
2-Butanone (MEK)	ND		56		ug/Kg	☼	01/27/16 09:20	01/27/16 15:09	1
n-Butylbenzene	ND		5.6		ug/Kg	☼	01/27/16 09:20	01/27/16 15:09	1
sec-Butylbenzene	ND		5.6		ug/Kg	☼	01/27/16 09:20	01/27/16 15:09	1
tert-Butylbenzene	ND		5.6		ug/Kg	☼	01/27/16 09:20	01/27/16 15:09	1
Carbon disulfide	ND		5.6		ug/Kg	☼	01/27/16 09:20	01/27/16 15:09	1
Carbon tetrachloride	ND		5.6		ug/Kg	☼	01/27/16 09:20	01/27/16 15:09	1
Chlorobenzene	ND		5.6		ug/Kg	☼	01/27/16 09:20	01/27/16 15:09	1
Chloroethane	ND		11		ug/Kg	☼	01/27/16 09:20	01/27/16 15:09	1
Chloroform	ND		5.6		ug/Kg	☼	01/27/16 09:20	01/27/16 15:09	1
Chloromethane	ND		11		ug/Kg	☼	01/27/16 09:20	01/27/16 15:09	1
2-Chlorotoluene	ND		5.6		ug/Kg	☼	01/27/16 09:20	01/27/16 15:09	1
4-Chlorotoluene	ND		5.6		ug/Kg	☼	01/27/16 09:20	01/27/16 15:09	1
Chlorodibromomethane	ND		5.6		ug/Kg	☼	01/27/16 09:20	01/27/16 15:09	1
1,2-Dichlorobenzene	ND		5.6		ug/Kg	☼	01/27/16 09:20	01/27/16 15:09	1
1,3-Dichlorobenzene	ND		5.6		ug/Kg	☼	01/27/16 09:20	01/27/16 15:09	1
1,4-Dichlorobenzene	ND		5.6		ug/Kg	☼	01/27/16 09:20	01/27/16 15:09	1
1,3-Dichloropropane	ND		5.6		ug/Kg	☼	01/27/16 09:20	01/27/16 15:09	1
1,1-Dichloropropane	ND		5.6		ug/Kg	☼	01/27/16 09:20	01/27/16 15:09	1
1,2-Dibromo-3-Chloropropane	ND		11		ug/Kg	☼	01/27/16 09:20	01/27/16 15:09	1
Ethylene Dibromide	ND		5.6		ug/Kg	☼	01/27/16 09:20	01/27/16 15:09	1
Dibromomethane	ND		11		ug/Kg	☼	01/27/16 09:20	01/27/16 15:09	1
Dichlorodifluoromethane	ND		11		ug/Kg	☼	01/27/16 09:20	01/27/16 15:09	1
1,1-Dichloroethane	ND		5.6		ug/Kg	☼	01/27/16 09:20	01/27/16 15:09	1
1,2-Dichloroethane	ND		5.6		ug/Kg	☼	01/27/16 09:20	01/27/16 15:09	1
1,1-Dichloroethene	ND		5.6		ug/Kg	☼	01/27/16 09:20	01/27/16 15:09	1
cis-1,2-Dichloroethene	ND		5.6		ug/Kg	☼	01/27/16 09:20	01/27/16 15:09	1
trans-1,2-Dichloroethene	ND		5.6		ug/Kg	☼	01/27/16 09:20	01/27/16 15:09	1
1,2-Dichloropropane	ND		5.6		ug/Kg	☼	01/27/16 09:20	01/27/16 15:09	1
cis-1,3-Dichloropropene	ND		5.6		ug/Kg	☼	01/27/16 09:20	01/27/16 15:09	1
trans-1,3-Dichloropropene	ND		5.6		ug/Kg	☼	01/27/16 09:20	01/27/16 15:09	1
Ethylbenzene	ND		5.6		ug/Kg	☼	01/27/16 09:20	01/27/16 15:09	1
Hexachlorobutadiene	ND		5.6		ug/Kg	☼	01/27/16 09:20	01/27/16 15:09	1
2-Hexanone	ND		56		ug/Kg	☼	01/27/16 09:20	01/27/16 15:09	1
Isopropylbenzene	ND		5.6		ug/Kg	☼	01/27/16 09:20	01/27/16 15:09	1
4-Isopropyltoluene	ND		5.6		ug/Kg	☼	01/27/16 09:20	01/27/16 15:09	1
Methylene Chloride	ND		11		ug/Kg	☼	01/27/16 09:20	01/27/16 15:09	1
4-Methyl-2-pentanone (MIBK)	ND		56		ug/Kg	☼	01/27/16 09:20	01/27/16 15:09	1
Naphthalene	ND		11		ug/Kg	☼	01/27/16 09:20	01/27/16 15:09	1
N-Propylbenzene	ND		5.6		ug/Kg	☼	01/27/16 09:20	01/27/16 15:09	1
Styrene	ND		5.6		ug/Kg	☼	01/27/16 09:20	01/27/16 15:09	1
1,1,1,2-Tetrachloroethane	ND		5.6		ug/Kg	☼	01/27/16 09:20	01/27/16 15:09	1

TestAmerica Pleasanton

# Client Sample Results

Client: Geologica Inc  
Project/Site: Pin High

TestAmerica Job ID: 720-69933-1

**Client Sample ID: GP-7-7.5-8'**

**Lab Sample ID: 720-69933-32**

**Date Collected: 01/22/16 08:45**

**Matrix: Solid**

**Date Received: 01/22/16 17:10**

**Percent Solids: 78.2**

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		5.6		ug/Kg	☼	01/27/16 09:20	01/27/16 15:09	1
Tetrachloroethene	ND		5.6		ug/Kg	☼	01/27/16 09:20	01/27/16 15:09	1
Toluene	ND		5.6		ug/Kg	☼	01/27/16 09:20	01/27/16 15:09	1
1,2,3-Trichlorobenzene	ND		5.6		ug/Kg	☼	01/27/16 09:20	01/27/16 15:09	1
1,2,4-Trichlorobenzene	ND		5.6		ug/Kg	☼	01/27/16 09:20	01/27/16 15:09	1
1,1,1-Trichloroethane	ND		5.6		ug/Kg	☼	01/27/16 09:20	01/27/16 15:09	1
1,1,2-Trichloroethane	ND		5.6		ug/Kg	☼	01/27/16 09:20	01/27/16 15:09	1
Trichloroethene	ND		5.6		ug/Kg	☼	01/27/16 09:20	01/27/16 15:09	1
Trichlorofluoromethane	ND		5.6		ug/Kg	☼	01/27/16 09:20	01/27/16 15:09	1
1,2,3-Trichloropropane	ND		5.6		ug/Kg	☼	01/27/16 09:20	01/27/16 15:09	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.6		ug/Kg	☼	01/27/16 09:20	01/27/16 15:09	1
1,2,4-Trimethylbenzene	ND		5.6		ug/Kg	☼	01/27/16 09:20	01/27/16 15:09	1
1,3,5-Trimethylbenzene	ND		5.6		ug/Kg	☼	01/27/16 09:20	01/27/16 15:09	1
Vinyl acetate	ND		22		ug/Kg	☼	01/27/16 09:20	01/27/16 15:09	1
Vinyl chloride	ND		5.6		ug/Kg	☼	01/27/16 09:20	01/27/16 15:09	1
Xylenes, Total	ND		11		ug/Kg	☼	01/27/16 09:20	01/27/16 15:09	1
2,2-Dichloropropane	ND		5.6		ug/Kg	☼	01/27/16 09:20	01/27/16 15:09	1
Gasoline Range Organics (GRO) -C5-C12	ND		280		ug/Kg	☼	01/27/16 09:20	01/27/16 15:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	84		45 - 131	01/27/16 09:20	01/27/16 15:09	1
1,2-Dichloroethane-d4 (Surr)	110		60 - 140	01/27/16 09:20	01/27/16 15:09	1
Toluene-d8 (Surr)	97		58 - 140	01/27/16 09:20	01/27/16 15:09	1

## Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Diesel Range Organics [C10-C28]</b>	<b>1.5</b>		1.3		mg/Kg	☼	01/27/16 21:05	01/28/16 22:40	1
Motor Oil Range Organics [C24-C36]	ND		64		mg/Kg	☼	01/27/16 21:05	01/28/16 22:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Capric Acid (Surr)	0.02		0 - 1	01/27/16 21:05	01/28/16 22:40	1
p-Terphenyl	76		38 - 148	01/27/16 21:05	01/28/16 22:40	1

## Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		1.6		mg/Kg	☼	01/26/16 14:13	01/27/16 22:51	4
<b>Arsenic</b>	<b>8.3</b>		3.2		mg/Kg	☼	01/26/16 14:13	01/27/16 22:51	4
<b>Barium</b>	<b>250</b>		1.6		mg/Kg	☼	01/26/16 14:13	01/27/16 22:51	4
<b>Beryllium</b>	<b>0.67</b>		0.32		mg/Kg	☼	01/26/16 14:13	01/27/16 22:51	4
Cadmium	ND		0.39		mg/Kg	☼	01/26/16 14:13	01/27/16 22:51	4
<b>Chromium</b>	<b>69</b>		1.6		mg/Kg	☼	01/26/16 14:13	01/27/16 22:51	4
<b>Cobalt</b>	<b>17</b>		0.63		mg/Kg	☼	01/26/16 14:13	01/27/16 22:51	4
<b>Copper</b>	<b>39</b>		4.7		mg/Kg	☼	01/26/16 14:13	01/27/16 22:51	4
<b>Lead</b>	<b>12</b>		1.6		mg/Kg	☼	01/26/16 14:13	01/27/16 22:51	4
Molybdenum	ND		1.6		mg/Kg	☼	01/26/16 14:13	01/27/16 22:51	4
<b>Nickel</b>	<b>94</b>		1.6		mg/Kg	☼	01/26/16 14:13	01/27/16 22:51	4
Selenium	ND		3.2		mg/Kg	☼	01/26/16 14:13	01/27/16 22:51	4
Silver	ND		0.79		mg/Kg	☼	01/26/16 14:13	01/27/16 22:51	4
Thallium	ND		1.6		mg/Kg	☼	01/26/16 14:13	01/27/16 22:51	4
<b>Vanadium</b>	<b>55</b>		1.6		mg/Kg	☼	01/26/16 14:13	01/27/16 22:51	4

TestAmerica Pleasanton

# Client Sample Results

Client: Geologica Inc  
Project/Site: Pin High

TestAmerica Job ID: 720-69933-1

**Client Sample ID: GP-7-7.5-8'**

**Lab Sample ID: 720-69933-32**

Date Collected: 01/22/16 08:45

Matrix: Solid

Date Received: 01/22/16 17:10

Percent Solids: 78.2

**Method: 6010B - Metals (ICP) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	79		4.7		mg/Kg	☼	01/26/16 14:13	01/27/16 22:51	4

**Method: 7471A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.19		0.011		mg/Kg	☼	01/26/16 17:30	01/27/16 17:33	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	22		0.10		%			01/27/16 09:39	1



# Client Sample Results

Client: Geologica Inc  
Project/Site: Pin High

TestAmerica Job ID: 720-69933-1

**Client Sample ID: GP-8-3.5-4'**

**Lab Sample ID: 720-69933-35**

**Date Collected: 01/22/16 09:40**

**Matrix: Solid**

**Date Received: 01/22/16 17:10**

**Percent Solids: 77.0**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		6.5		ug/Kg	☼	01/27/16 19:40	01/28/16 14:29	1
Acetone	ND	F1	65		ug/Kg	☼	01/27/16 19:40	01/28/16 14:29	1
Benzene	ND		6.5		ug/Kg	☼	01/27/16 19:40	01/28/16 14:29	1
Dichlorobromomethane	ND		6.5		ug/Kg	☼	01/27/16 19:40	01/28/16 14:29	1
Bromobenzene	ND	* F1 F2	6.5		ug/Kg	☼	01/27/16 19:40	01/28/16 14:29	1
Chlorobromomethane	ND		26		ug/Kg	☼	01/27/16 19:40	01/28/16 14:29	1
Bromoform	ND		6.5		ug/Kg	☼	01/27/16 19:40	01/28/16 14:29	1
Bromomethane	ND		13		ug/Kg	☼	01/27/16 19:40	01/28/16 14:29	1
2-Butanone (MEK)	ND		65		ug/Kg	☼	01/27/16 19:40	01/28/16 14:29	1
n-Butylbenzene	ND	*	6.5		ug/Kg	☼	01/27/16 19:40	01/28/16 14:29	1
sec-Butylbenzene	ND	* F1 F2	6.5		ug/Kg	☼	01/27/16 19:40	01/28/16 14:29	1
tert-Butylbenzene	ND	* F1 F2	6.5		ug/Kg	☼	01/27/16 19:40	01/28/16 14:29	1
Carbon disulfide	ND		6.5		ug/Kg	☼	01/27/16 19:40	01/28/16 14:29	1
Carbon tetrachloride	ND		6.5		ug/Kg	☼	01/27/16 19:40	01/28/16 14:29	1
Chlorobenzene	ND		6.5		ug/Kg	☼	01/27/16 19:40	01/28/16 14:29	1
Chloroethane	ND		13		ug/Kg	☼	01/27/16 19:40	01/28/16 14:29	1
Chloroform	ND		6.5		ug/Kg	☼	01/27/16 19:40	01/28/16 14:29	1
Chloromethane	ND		13		ug/Kg	☼	01/27/16 19:40	01/28/16 14:29	1
2-Chlorotoluene	ND	* F1 F2	6.5		ug/Kg	☼	01/27/16 19:40	01/28/16 14:29	1
4-Chlorotoluene	ND	* F2	6.5		ug/Kg	☼	01/27/16 19:40	01/28/16 14:29	1
Chlorodibromomethane	ND		6.5		ug/Kg	☼	01/27/16 19:40	01/28/16 14:29	1
1,2-Dichlorobenzene	ND	*	6.5		ug/Kg	☼	01/27/16 19:40	01/28/16 14:29	1
1,3-Dichlorobenzene	ND	*	6.5		ug/Kg	☼	01/27/16 19:40	01/28/16 14:29	1
1,4-Dichlorobenzene	ND	*	6.5		ug/Kg	☼	01/27/16 19:40	01/28/16 14:29	1
1,3-Dichloropropane	ND		6.5		ug/Kg	☼	01/27/16 19:40	01/28/16 14:29	1
1,1-Dichloropropane	ND		6.5		ug/Kg	☼	01/27/16 19:40	01/28/16 14:29	1
1,2-Dibromo-3-Chloropropane	ND	* F1	13		ug/Kg	☼	01/27/16 19:40	01/28/16 14:29	1
Ethylene Dibromide	ND		6.5		ug/Kg	☼	01/27/16 19:40	01/28/16 14:29	1
Dibromomethane	ND		13		ug/Kg	☼	01/27/16 19:40	01/28/16 14:29	1
Dichlorodifluoromethane	ND		13		ug/Kg	☼	01/27/16 19:40	01/28/16 14:29	1
1,1-Dichloroethane	ND		6.5		ug/Kg	☼	01/27/16 19:40	01/28/16 14:29	1
1,2-Dichloroethane	ND		6.5		ug/Kg	☼	01/27/16 19:40	01/28/16 14:29	1
1,1-Dichloroethene	ND		6.5		ug/Kg	☼	01/27/16 19:40	01/28/16 14:29	1
cis-1,2-Dichloroethene	ND		6.5		ug/Kg	☼	01/27/16 19:40	01/28/16 14:29	1
trans-1,2-Dichloroethene	ND		6.5		ug/Kg	☼	01/27/16 19:40	01/28/16 14:29	1
1,2-Dichloropropane	ND		6.5		ug/Kg	☼	01/27/16 19:40	01/28/16 14:29	1
cis-1,3-Dichloropropene	ND		6.5		ug/Kg	☼	01/27/16 19:40	01/28/16 14:29	1
trans-1,3-Dichloropropene	ND		6.5		ug/Kg	☼	01/27/16 19:40	01/28/16 14:29	1
Ethylbenzene	ND		6.5		ug/Kg	☼	01/27/16 19:40	01/28/16 14:29	1
Hexachlorobutadiene	ND	*	6.5		ug/Kg	☼	01/27/16 19:40	01/28/16 14:29	1
2-Hexanone	ND		65		ug/Kg	☼	01/27/16 19:40	01/28/16 14:29	1
Isopropylbenzene	ND		6.5		ug/Kg	☼	01/27/16 19:40	01/28/16 14:29	1
4-Isopropyltoluene	ND	* F2	6.5		ug/Kg	☼	01/27/16 19:40	01/28/16 14:29	1
Methylene Chloride	ND		13		ug/Kg	☼	01/27/16 19:40	01/28/16 14:29	1
4-Methyl-2-pentanone (MIBK)	ND		65		ug/Kg	☼	01/27/16 19:40	01/28/16 14:29	1
Naphthalene	ND	* F2	13		ug/Kg	☼	01/27/16 19:40	01/28/16 14:29	1
N-Propylbenzene	ND	* F1 F2	6.5		ug/Kg	☼	01/27/16 19:40	01/28/16 14:29	1
Styrene	ND		6.5		ug/Kg	☼	01/27/16 19:40	01/28/16 14:29	1
1,1,1,2-Tetrachloroethane	ND		6.5		ug/Kg	☼	01/27/16 19:40	01/28/16 14:29	1

TestAmerica Pleasanton

# Client Sample Results

Client: Geologica Inc  
Project/Site: Pin High

TestAmerica Job ID: 720-69933-1

**Client Sample ID: GP-8-3.5-4'**

**Lab Sample ID: 720-69933-35**

**Date Collected: 01/22/16 09:40**

**Matrix: Solid**

**Date Received: 01/22/16 17:10**

**Percent Solids: 77.0**

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND	* F1	6.5		ug/Kg	☼	01/27/16 19:40	01/28/16 14:29	1
Tetrachloroethene	ND		6.5		ug/Kg	☼	01/27/16 19:40	01/28/16 14:29	1
Toluene	ND		6.5		ug/Kg	☼	01/27/16 19:40	01/28/16 14:29	1
1,2,3-Trichlorobenzene	ND	* F1 F2	6.5		ug/Kg	☼	01/27/16 19:40	01/28/16 14:29	1
1,2,4-Trichlorobenzene	ND	* F1 F2	6.5		ug/Kg	☼	01/27/16 19:40	01/28/16 14:29	1
1,1,1-Trichloroethane	ND		6.5		ug/Kg	☼	01/27/16 19:40	01/28/16 14:29	1
1,1,2-Trichloroethane	ND		6.5		ug/Kg	☼	01/27/16 19:40	01/28/16 14:29	1
Trichloroethene	ND		6.5		ug/Kg	☼	01/27/16 19:40	01/28/16 14:29	1
Trichlorofluoromethane	ND		6.5		ug/Kg	☼	01/27/16 19:40	01/28/16 14:29	1
1,2,3-Trichloropropane	ND	* F1 F2	6.5		ug/Kg	☼	01/27/16 19:40	01/28/16 14:29	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		6.5		ug/Kg	☼	01/27/16 19:40	01/28/16 14:29	1
1,2,4-Trimethylbenzene	ND	* F2	6.5		ug/Kg	☼	01/27/16 19:40	01/28/16 14:29	1
1,3,5-Trimethylbenzene	ND	* F1 F2	6.5		ug/Kg	☼	01/27/16 19:40	01/28/16 14:29	1
Vinyl acetate	ND	F1 F2	26		ug/Kg	☼	01/27/16 19:40	01/28/16 14:29	1
Vinyl chloride	ND		6.5		ug/Kg	☼	01/27/16 19:40	01/28/16 14:29	1
Xylenes, Total	ND		13		ug/Kg	☼	01/27/16 19:40	01/28/16 14:29	1
2,2-Dichloropropane	ND		6.5		ug/Kg	☼	01/27/16 19:40	01/28/16 14:29	1
Gasoline Range Organics (GRO) -C5-C12	ND		320		ug/Kg	☼	01/27/16 19:40	01/28/16 14:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	80		45 - 131	01/27/16 19:40	01/28/16 14:29	1
1,2-Dichloroethane-d4 (Surr)	105		60 - 140	01/27/16 19:40	01/28/16 14:29	1
Toluene-d8 (Surr)	93		58 - 140	01/27/16 19:40	01/28/16 14:29	1

## Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Diesel Range Organics [C10-C28]</b>	<b>21</b>		1.3		mg/Kg	☼	01/27/16 20:37	01/29/16 02:05	1
<b>Motor Oil Range Organics [C24-C36]</b>	<b>90</b>		65		mg/Kg	☼	01/27/16 20:37	01/29/16 02:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Capric Acid (Surr)	0.04		0 - 1	01/27/16 20:37	01/29/16 02:05	1
p-Terphenyl	65		38 - 148	01/27/16 20:37	01/29/16 02:05	1

## Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		2.6		ug/Kg	☼	01/27/16 15:48	01/28/16 17:03	1
Dieldrin	ND		2.6		ug/Kg	☼	01/27/16 15:48	01/28/16 17:03	1
Endrin aldehyde	ND		2.6		ug/Kg	☼	01/27/16 15:48	01/28/16 17:03	1
Endrin	ND		2.6		ug/Kg	☼	01/27/16 15:48	01/28/16 17:03	1
Endrin ketone	ND		2.6		ug/Kg	☼	01/27/16 15:48	01/28/16 17:03	1
Heptachlor	ND		2.6		ug/Kg	☼	01/27/16 15:48	01/28/16 17:03	1
Heptachlor epoxide	ND		2.6		ug/Kg	☼	01/27/16 15:48	01/28/16 17:03	1
<b>4,4'-DDT</b>	<b>18</b>		2.6		ug/Kg	☼	01/27/16 15:48	01/28/16 17:03	1
<b>4,4'-DDE</b>	<b>60</b>		2.6		ug/Kg	☼	01/27/16 15:48	01/28/16 17:03	1
<b>4,4'-DDD</b>	<b>16</b>		2.6		ug/Kg	☼	01/27/16 15:48	01/28/16 17:03	1
Endosulfan I	ND		2.6		ug/Kg	☼	01/27/16 15:48	01/28/16 17:03	1
Endosulfan II	ND		2.6		ug/Kg	☼	01/27/16 15:48	01/28/16 17:03	1
alpha-BHC	ND		2.6		ug/Kg	☼	01/27/16 15:48	01/28/16 17:03	1
beta-BHC	ND		2.6		ug/Kg	☼	01/27/16 15:48	01/28/16 17:03	1

TestAmerica Pleasanton



# Client Sample Results

Client: Geologica Inc  
Project/Site: Pin High

TestAmerica Job ID: 720-69933-1

**Client Sample ID: GP-8-3.5-4'**

**Lab Sample ID: 720-69933-35**

**Date Collected: 01/22/16 09:40**

**Matrix: Solid**

**Date Received: 01/22/16 17:10**

**Percent Solids: 77.0**

## Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
gamma-BHC (Lindane)	ND		2.6		ug/Kg	☼	01/27/16 15:48	01/28/16 17:03	1
delta-BHC	ND		2.6		ug/Kg	☼	01/27/16 15:48	01/28/16 17:03	1
Endosulfan sulfate	ND		2.6		ug/Kg	☼	01/27/16 15:48	01/28/16 17:03	1
Methoxychlor	ND		2.6		ug/Kg	☼	01/27/16 15:48	01/28/16 17:03	1
Toxaphene	ND		52		ug/Kg	☼	01/27/16 15:48	01/28/16 17:03	1
Chlordane (technical)	ND		52		ug/Kg	☼	01/27/16 15:48	01/28/16 17:03	1
alpha-Chlordane	ND		2.6		ug/Kg	☼	01/27/16 15:48	01/28/16 17:03	1
gamma-Chlordane	ND		2.6		ug/Kg	☼	01/27/16 15:48	01/28/16 17:03	1
Hexachlorobenzene	ND		2.6		ug/Kg	☼	01/27/16 15:48	01/28/16 17:03	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Tetrachloro-m-xylene	83		57 - 122				01/27/16 15:48	01/28/16 17:03	1
DCB Decachlorobiphenyl	83		21 - 136				01/27/16 15:48	01/28/16 17:03	1

## Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		65		ug/Kg	☼	01/27/16 15:59	01/28/16 18:05	1
PCB-1221	ND		65		ug/Kg	☼	01/27/16 15:59	01/28/16 18:05	1
PCB-1232	ND		65		ug/Kg	☼	01/27/16 15:59	01/28/16 18:05	1
PCB-1242	ND		65		ug/Kg	☼	01/27/16 15:59	01/28/16 18:05	1
PCB-1248	ND		65		ug/Kg	☼	01/27/16 15:59	01/28/16 18:05	1
PCB-1254	ND		65		ug/Kg	☼	01/27/16 15:59	01/28/16 18:05	1
PCB-1260	ND		65		ug/Kg	☼	01/27/16 15:59	01/28/16 18:05	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Tetrachloro-m-xylene	69		45 - 132				01/27/16 15:59	01/28/16 18:05	1
DCB Decachlorobiphenyl	66		42 - 146				01/27/16 15:59	01/28/16 18:05	1

## Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		2.1		mg/Kg	☼	01/26/16 14:13	01/27/16 23:06	4
<b>Arsenic</b>	<b>44</b>		4.1		mg/Kg	☼	01/26/16 14:13	01/27/16 23:06	4
<b>Barium</b>	<b>250</b>		2.1		mg/Kg	☼	01/26/16 14:13	01/27/16 23:06	4
<b>Beryllium</b>	<b>0.61</b>		0.41		mg/Kg	☼	01/26/16 14:13	01/27/16 23:06	4
Cadmium	ND		0.52		mg/Kg	☼	01/26/16 14:13	01/27/16 23:06	4
<b>Chromium</b>	<b>89</b>		2.1		mg/Kg	☼	01/26/16 14:13	01/27/16 23:06	4
<b>Cobalt</b>	<b>21</b>		0.83		mg/Kg	☼	01/26/16 14:13	01/27/16 23:06	4
<b>Copper</b>	<b>53</b>		6.2		mg/Kg	☼	01/26/16 14:13	01/27/16 23:06	4
<b>Lead</b>	<b>130</b>		2.1		mg/Kg	☼	01/26/16 14:13	01/27/16 23:06	4
Molybdenum	ND		2.1		mg/Kg	☼	01/26/16 14:13	01/27/16 23:06	4
<b>Nickel</b>	<b>150</b>		2.1		mg/Kg	☼	01/26/16 14:13	01/27/16 23:06	4
Selenium	ND		4.1		mg/Kg	☼	01/26/16 14:13	01/27/16 23:06	4
Silver	ND		1.0		mg/Kg	☼	01/26/16 14:13	01/27/16 23:06	4
Thallium	ND		2.1		mg/Kg	☼	01/26/16 14:13	01/27/16 23:06	4
<b>Vanadium</b>	<b>55</b>		2.1		mg/Kg	☼	01/26/16 14:13	01/27/16 23:06	4
<b>Zinc</b>	<b>130</b>		6.2		mg/Kg	☼	01/26/16 14:13	01/27/16 23:06	4

## Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>5.4</b>		0.11		mg/Kg	☼	01/26/16 17:30	01/27/16 17:59	10

TestAmerica Pleasanton

# Client Sample Results

Client: Geologica Inc  
Project/Site: Pin High

TestAmerica Job ID: 720-69933-1

**Client Sample ID: GP-8-3.5-4'**

**Lab Sample ID: 720-69933-35**

**Date Collected: 01/22/16 09:40**

**Matrix: Solid**

**Date Received: 01/22/16 17:10**

**Percent Solids: 77.0**

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	23		0.10		%			01/27/16 09:39	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

# Client Sample Results

Client: Geologica Inc  
Project/Site: Pin High

TestAmerica Job ID: 720-69933-1

**Client Sample ID: GP-8-7.5-8'**

**Lab Sample ID: 720-69933-36**

**Date Collected: 01/22/16 09:42**

**Matrix: Solid**

**Date Received: 01/22/16 17:10**

**Percent Solids: 81.3**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		6.1		ug/Kg	☼	01/29/16 19:09	01/29/16 23:07	1
Acetone	ND		61		ug/Kg	☼	01/29/16 19:09	01/29/16 23:07	1
Benzene	ND		6.1		ug/Kg	☼	01/29/16 19:09	01/29/16 23:07	1
Dichlorobromomethane	ND		6.1		ug/Kg	☼	01/29/16 19:09	01/29/16 23:07	1
Bromobenzene	ND		6.1		ug/Kg	☼	01/29/16 19:09	01/29/16 23:07	1
Chlorobromomethane	ND		24		ug/Kg	☼	01/29/16 19:09	01/29/16 23:07	1
Bromoform	ND		6.1		ug/Kg	☼	01/29/16 19:09	01/29/16 23:07	1
Bromomethane	ND		12		ug/Kg	☼	01/29/16 19:09	01/29/16 23:07	1
2-Butanone (MEK)	ND		61		ug/Kg	☼	01/29/16 19:09	01/29/16 23:07	1
n-Butylbenzene	ND		6.1		ug/Kg	☼	01/29/16 19:09	01/29/16 23:07	1
sec-Butylbenzene	ND		6.1		ug/Kg	☼	01/29/16 19:09	01/29/16 23:07	1
tert-Butylbenzene	ND		6.1		ug/Kg	☼	01/29/16 19:09	01/29/16 23:07	1
Carbon disulfide	ND		6.1		ug/Kg	☼	01/29/16 19:09	01/29/16 23:07	1
Carbon tetrachloride	ND		6.1		ug/Kg	☼	01/29/16 19:09	01/29/16 23:07	1
Chlorobenzene	ND		6.1		ug/Kg	☼	01/29/16 19:09	01/29/16 23:07	1
Chloroethane	ND		12		ug/Kg	☼	01/29/16 19:09	01/29/16 23:07	1
Chloroform	ND		6.1		ug/Kg	☼	01/29/16 19:09	01/29/16 23:07	1
Chloromethane	ND		12		ug/Kg	☼	01/29/16 19:09	01/29/16 23:07	1
2-Chlorotoluene	ND		6.1		ug/Kg	☼	01/29/16 19:09	01/29/16 23:07	1
4-Chlorotoluene	ND		6.1		ug/Kg	☼	01/29/16 19:09	01/29/16 23:07	1
Chlorodibromomethane	ND		6.1		ug/Kg	☼	01/29/16 19:09	01/29/16 23:07	1
1,2-Dichlorobenzene	ND		6.1		ug/Kg	☼	01/29/16 19:09	01/29/16 23:07	1
1,3-Dichlorobenzene	ND		6.1		ug/Kg	☼	01/29/16 19:09	01/29/16 23:07	1
1,4-Dichlorobenzene	ND		6.1		ug/Kg	☼	01/29/16 19:09	01/29/16 23:07	1
1,3-Dichloropropane	ND		6.1		ug/Kg	☼	01/29/16 19:09	01/29/16 23:07	1
1,1-Dichloropropane	ND		6.1		ug/Kg	☼	01/29/16 19:09	01/29/16 23:07	1
1,2-Dibromo-3-Chloropropane	ND		12		ug/Kg	☼	01/29/16 19:09	01/29/16 23:07	1
Ethylene Dibromide	ND		6.1		ug/Kg	☼	01/29/16 19:09	01/29/16 23:07	1
Dibromomethane	ND		12		ug/Kg	☼	01/29/16 19:09	01/29/16 23:07	1
Dichlorodifluoromethane	ND		12		ug/Kg	☼	01/29/16 19:09	01/29/16 23:07	1
1,1-Dichloroethane	ND		6.1		ug/Kg	☼	01/29/16 19:09	01/29/16 23:07	1
1,2-Dichloroethane	ND		6.1		ug/Kg	☼	01/29/16 19:09	01/29/16 23:07	1
1,1-Dichloroethene	ND		6.1		ug/Kg	☼	01/29/16 19:09	01/29/16 23:07	1
cis-1,2-Dichloroethene	ND		6.1		ug/Kg	☼	01/29/16 19:09	01/29/16 23:07	1
trans-1,2-Dichloroethene	ND		6.1		ug/Kg	☼	01/29/16 19:09	01/29/16 23:07	1
1,2-Dichloropropane	ND		6.1		ug/Kg	☼	01/29/16 19:09	01/29/16 23:07	1
cis-1,3-Dichloropropene	ND		6.1		ug/Kg	☼	01/29/16 19:09	01/29/16 23:07	1
trans-1,3-Dichloropropene	ND		6.1		ug/Kg	☼	01/29/16 19:09	01/29/16 23:07	1
Ethylbenzene	ND		6.1		ug/Kg	☼	01/29/16 19:09	01/29/16 23:07	1
Hexachlorobutadiene	ND		6.1		ug/Kg	☼	01/29/16 19:09	01/29/16 23:07	1
2-Hexanone	ND		61		ug/Kg	☼	01/29/16 19:09	01/29/16 23:07	1
Isopropylbenzene	ND		6.1		ug/Kg	☼	01/29/16 19:09	01/29/16 23:07	1
4-Isopropyltoluene	ND		6.1		ug/Kg	☼	01/29/16 19:09	01/29/16 23:07	1
Methylene Chloride	ND		12		ug/Kg	☼	01/29/16 19:09	01/29/16 23:07	1
4-Methyl-2-pentanone (MIBK)	ND	F1	61		ug/Kg	☼	01/29/16 19:09	01/29/16 23:07	1
Naphthalene	ND		12		ug/Kg	☼	01/29/16 19:09	01/29/16 23:07	1
N-Propylbenzene	ND		6.1		ug/Kg	☼	01/29/16 19:09	01/29/16 23:07	1
Styrene	ND		6.1		ug/Kg	☼	01/29/16 19:09	01/29/16 23:07	1
1,1,1,2-Tetrachloroethane	ND		6.1		ug/Kg	☼	01/29/16 19:09	01/29/16 23:07	1

TestAmerica Pleasanton

# Client Sample Results

Client: Geologica Inc  
Project/Site: Pin High

TestAmerica Job ID: 720-69933-1

**Client Sample ID: GP-8-7.5-8'**

**Lab Sample ID: 720-69933-36**

**Date Collected: 01/22/16 09:42**

**Matrix: Solid**

**Date Received: 01/22/16 17:10**

**Percent Solids: 81.3**

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		6.1		ug/Kg	☼	01/29/16 19:09	01/29/16 23:07	1
Tetrachloroethene	ND		6.1		ug/Kg	☼	01/29/16 19:09	01/29/16 23:07	1
Toluene	ND		6.1		ug/Kg	☼	01/29/16 19:09	01/29/16 23:07	1
1,2,3-Trichlorobenzene	ND		6.1		ug/Kg	☼	01/29/16 19:09	01/29/16 23:07	1
1,2,4-Trichlorobenzene	ND		6.1		ug/Kg	☼	01/29/16 19:09	01/29/16 23:07	1
1,1,1-Trichloroethane	ND		6.1		ug/Kg	☼	01/29/16 19:09	01/29/16 23:07	1
1,1,2-Trichloroethane	ND		6.1		ug/Kg	☼	01/29/16 19:09	01/29/16 23:07	1
Trichloroethene	ND		6.1		ug/Kg	☼	01/29/16 19:09	01/29/16 23:07	1
Trichlorofluoromethane	ND		6.1		ug/Kg	☼	01/29/16 19:09	01/29/16 23:07	1
1,2,3-Trichloropropane	ND		6.1		ug/Kg	☼	01/29/16 19:09	01/29/16 23:07	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		6.1		ug/Kg	☼	01/29/16 19:09	01/29/16 23:07	1
1,2,4-Trimethylbenzene	ND		6.1		ug/Kg	☼	01/29/16 19:09	01/29/16 23:07	1
1,3,5-Trimethylbenzene	ND		6.1		ug/Kg	☼	01/29/16 19:09	01/29/16 23:07	1
Vinyl acetate	ND	F1 F2	24		ug/Kg	☼	01/29/16 19:09	01/29/16 23:07	1
Vinyl chloride	ND		6.1		ug/Kg	☼	01/29/16 19:09	01/29/16 23:07	1
Xylenes, Total	ND		12		ug/Kg	☼	01/29/16 19:09	01/29/16 23:07	1
2,2-Dichloropropane	ND		6.1		ug/Kg	☼	01/29/16 19:09	01/29/16 23:07	1
Gasoline Range Organics (GRO) -C5-C12	ND		310		ug/Kg	☼	01/29/16 19:09	01/29/16 23:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	89		45 - 131	01/29/16 19:09	01/29/16 23:07	1
1,2-Dichloroethane-d4 (Surr)	107		60 - 140	01/29/16 19:09	01/29/16 23:07	1
Toluene-d8 (Surr)	101		58 - 140	01/29/16 19:09	01/29/16 23:07	1

## Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		1.2		mg/Kg	☼	01/27/16 20:37	01/28/16 22:11	1
Motor Oil Range Organics [C24-C36]	ND		61		mg/Kg	☼	01/27/16 20:37	01/28/16 22:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Capric Acid (Surr)	0.01		0 - 1	01/27/16 20:37	01/28/16 22:11	1
p-Terphenyl	87		38 - 148	01/27/16 20:37	01/28/16 22:11	1

## Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		2.4		ug/Kg	☼	01/27/16 15:48	01/28/16 17:19	1
Dieldrin	ND		2.4		ug/Kg	☼	01/27/16 15:48	01/28/16 17:19	1
Endrin aldehyde	ND		2.4		ug/Kg	☼	01/27/16 15:48	01/28/16 17:19	1
Endrin	ND		2.4		ug/Kg	☼	01/27/16 15:48	01/28/16 17:19	1
Endrin ketone	ND		2.4		ug/Kg	☼	01/27/16 15:48	01/28/16 17:19	1
Heptachlor	ND		2.4		ug/Kg	☼	01/27/16 15:48	01/28/16 17:19	1
Heptachlor epoxide	ND		2.4		ug/Kg	☼	01/27/16 15:48	01/28/16 17:19	1
4,4'-DDT	ND		2.4		ug/Kg	☼	01/27/16 15:48	01/28/16 17:19	1
4,4'-DDE	ND		2.4		ug/Kg	☼	01/27/16 15:48	01/28/16 17:19	1
4,4'-DDD	ND		2.4		ug/Kg	☼	01/27/16 15:48	01/28/16 17:19	1
Endosulfan I	ND		2.4		ug/Kg	☼	01/27/16 15:48	01/28/16 17:19	1
Endosulfan II	ND		2.4		ug/Kg	☼	01/27/16 15:48	01/28/16 17:19	1
alpha-BHC	ND		2.4		ug/Kg	☼	01/27/16 15:48	01/28/16 17:19	1
beta-BHC	ND		2.4		ug/Kg	☼	01/27/16 15:48	01/28/16 17:19	1
gamma-BHC (Lindane)	ND		2.4		ug/Kg	☼	01/27/16 15:48	01/28/16 17:19	1

TestAmerica Pleasanton

# Client Sample Results

Client: Geologica Inc  
Project/Site: Pin High

TestAmerica Job ID: 720-69933-1

**Client Sample ID: GP-8-7.5-8'**

**Lab Sample ID: 720-69933-36**

**Date Collected: 01/22/16 09:42**

**Matrix: Solid**

**Date Received: 01/22/16 17:10**

**Percent Solids: 81.3**

## Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
delta-BHC	ND		2.4		ug/Kg	☼	01/27/16 15:48	01/28/16 17:19	1
Endosulfan sulfate	ND		2.4		ug/Kg	☼	01/27/16 15:48	01/28/16 17:19	1
Methoxychlor	ND		2.4		ug/Kg	☼	01/27/16 15:48	01/28/16 17:19	1
Toxaphene	ND		49		ug/Kg	☼	01/27/16 15:48	01/28/16 17:19	1
Chlordane (technical)	ND		49		ug/Kg	☼	01/27/16 15:48	01/28/16 17:19	1
alpha-Chlordane	ND		2.4		ug/Kg	☼	01/27/16 15:48	01/28/16 17:19	1
gamma-Chlordane	ND		2.4		ug/Kg	☼	01/27/16 15:48	01/28/16 17:19	1
Hexachlorobenzene	ND		2.4		ug/Kg	☼	01/27/16 15:48	01/28/16 17:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	96		57 - 122	01/27/16 15:48	01/28/16 17:19	1
DCB Decachlorobiphenyl	116		21 - 136	01/27/16 15:48	01/28/16 17:19	1

## Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		61		ug/Kg	☼	01/27/16 15:59	01/28/16 18:22	1
PCB-1221	ND		61		ug/Kg	☼	01/27/16 15:59	01/28/16 18:22	1
PCB-1232	ND		61		ug/Kg	☼	01/27/16 15:59	01/28/16 18:22	1
PCB-1242	ND		61		ug/Kg	☼	01/27/16 15:59	01/28/16 18:22	1
PCB-1248	ND		61		ug/Kg	☼	01/27/16 15:59	01/28/16 18:22	1
PCB-1254	ND		61		ug/Kg	☼	01/27/16 15:59	01/28/16 18:22	1
PCB-1260	ND		61		ug/Kg	☼	01/27/16 15:59	01/28/16 18:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	68		45 - 132	01/27/16 15:59	01/28/16 18:22	1
DCB Decachlorobiphenyl	73		42 - 146	01/27/16 15:59	01/28/16 18:22	1

## Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		2.3		mg/Kg	☼	01/26/16 14:13	01/27/16 23:11	4
<b>Arsenic</b>	<b>7.1</b>		4.6		mg/Kg	☼	01/26/16 14:13	01/27/16 23:11	4
<b>Barium</b>	<b>160</b>		2.3		mg/Kg	☼	01/26/16 14:13	01/27/16 23:11	4
<b>Beryllium</b>	<b>0.81</b>		0.46		mg/Kg	☼	01/26/16 14:13	01/27/16 23:11	4
Cadmium	ND		0.57		mg/Kg	☼	01/26/16 14:13	01/27/16 23:11	4
<b>Chromium</b>	<b>68</b>		2.3		mg/Kg	☼	01/26/16 14:13	01/27/16 23:11	4
<b>Cobalt</b>	<b>14</b>		0.91		mg/Kg	☼	01/26/16 14:13	01/27/16 23:11	4
<b>Copper</b>	<b>37</b>		6.8		mg/Kg	☼	01/26/16 14:13	01/27/16 23:11	4
<b>Lead</b>	<b>11</b>		2.3		mg/Kg	☼	01/26/16 14:13	01/27/16 23:11	4
Molybdenum	ND		2.3		mg/Kg	☼	01/26/16 14:13	01/27/16 23:11	4
<b>Nickel</b>	<b>82</b>		2.3		mg/Kg	☼	01/26/16 14:13	01/27/16 23:11	4
Selenium	ND		4.6		mg/Kg	☼	01/26/16 14:13	01/27/16 23:11	4
Silver	ND		1.1		mg/Kg	☼	01/26/16 14:13	01/27/16 23:11	4
Thallium	ND		2.3		mg/Kg	☼	01/26/16 14:13	01/27/16 23:11	4
<b>Vanadium</b>	<b>54</b>		2.3		mg/Kg	☼	01/26/16 14:13	01/27/16 23:11	4
<b>Zinc</b>	<b>77</b>		6.8		mg/Kg	☼	01/26/16 14:13	01/27/16 23:11	4

## Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.12</b>		0.011		mg/Kg	☼	01/26/16 17:30	01/27/16 17:38	1

TestAmerica Pleasanton

# Client Sample Results

Client: Geologica Inc  
Project/Site: Pin High

TestAmerica Job ID: 720-69933-1

**Client Sample ID: GP-8-7.5-8'**

**Lab Sample ID: 720-69933-36**

**Date Collected: 01/22/16 09:42**

**Matrix: Solid**

**Date Received: 01/22/16 17:10**

**Percent Solids: 81.3**

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	19		0.10		%			01/27/16 09:39	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

# Client Sample Results

Client: Geologica Inc  
Project/Site: Pin High

TestAmerica Job ID: 720-69933-1

**Client Sample ID: GP-9-4.5-5'**

**Lab Sample ID: 720-69933-39**

**Date Collected: 01/22/16 10:22**

**Matrix: Solid**

**Date Received: 01/22/16 17:10**

**Percent Solids: 78.2**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		6.1		ug/Kg	☼	01/29/16 19:09	01/29/16 23:37	1
Acetone	ND		61		ug/Kg	☼	01/29/16 19:09	01/29/16 23:37	1
Benzene	ND		6.1		ug/Kg	☼	01/29/16 19:09	01/29/16 23:37	1
Dichlorobromomethane	ND		6.1		ug/Kg	☼	01/29/16 19:09	01/29/16 23:37	1
Bromobenzene	ND		6.1		ug/Kg	☼	01/29/16 19:09	01/29/16 23:37	1
Chlorobromomethane	ND		25		ug/Kg	☼	01/29/16 19:09	01/29/16 23:37	1
Bromoform	ND		6.1		ug/Kg	☼	01/29/16 19:09	01/29/16 23:37	1
Bromomethane	ND		12		ug/Kg	☼	01/29/16 19:09	01/29/16 23:37	1
2-Butanone (MEK)	ND		61		ug/Kg	☼	01/29/16 19:09	01/29/16 23:37	1
n-Butylbenzene	ND		6.1		ug/Kg	☼	01/29/16 19:09	01/29/16 23:37	1
sec-Butylbenzene	ND		6.1		ug/Kg	☼	01/29/16 19:09	01/29/16 23:37	1
tert-Butylbenzene	ND		6.1		ug/Kg	☼	01/29/16 19:09	01/29/16 23:37	1
Carbon disulfide	ND		6.1		ug/Kg	☼	01/29/16 19:09	01/29/16 23:37	1
Carbon tetrachloride	ND		6.1		ug/Kg	☼	01/29/16 19:09	01/29/16 23:37	1
Chlorobenzene	ND		6.1		ug/Kg	☼	01/29/16 19:09	01/29/16 23:37	1
Chloroethane	ND		12		ug/Kg	☼	01/29/16 19:09	01/29/16 23:37	1
Chloroform	ND		6.1		ug/Kg	☼	01/29/16 19:09	01/29/16 23:37	1
Chloromethane	ND		12		ug/Kg	☼	01/29/16 19:09	01/29/16 23:37	1
2-Chlorotoluene	ND		6.1		ug/Kg	☼	01/29/16 19:09	01/29/16 23:37	1
4-Chlorotoluene	ND		6.1		ug/Kg	☼	01/29/16 19:09	01/29/16 23:37	1
Chlorodibromomethane	ND		6.1		ug/Kg	☼	01/29/16 19:09	01/29/16 23:37	1
1,2-Dichlorobenzene	ND		6.1		ug/Kg	☼	01/29/16 19:09	01/29/16 23:37	1
1,3-Dichlorobenzene	ND		6.1		ug/Kg	☼	01/29/16 19:09	01/29/16 23:37	1
1,4-Dichlorobenzene	ND		6.1		ug/Kg	☼	01/29/16 19:09	01/29/16 23:37	1
1,3-Dichloropropane	ND		6.1		ug/Kg	☼	01/29/16 19:09	01/29/16 23:37	1
1,1-Dichloropropane	ND		6.1		ug/Kg	☼	01/29/16 19:09	01/29/16 23:37	1
1,2-Dibromo-3-Chloropropane	ND		12		ug/Kg	☼	01/29/16 19:09	01/29/16 23:37	1
Ethylene Dibromide	ND		6.1		ug/Kg	☼	01/29/16 19:09	01/29/16 23:37	1
Dibromomethane	ND		12		ug/Kg	☼	01/29/16 19:09	01/29/16 23:37	1
Dichlorodifluoromethane	ND		12		ug/Kg	☼	01/29/16 19:09	01/29/16 23:37	1
1,1-Dichloroethane	ND		6.1		ug/Kg	☼	01/29/16 19:09	01/29/16 23:37	1
1,2-Dichloroethane	ND		6.1		ug/Kg	☼	01/29/16 19:09	01/29/16 23:37	1
1,1-Dichloroethene	ND		6.1		ug/Kg	☼	01/29/16 19:09	01/29/16 23:37	1
cis-1,2-Dichloroethene	ND		6.1		ug/Kg	☼	01/29/16 19:09	01/29/16 23:37	1
trans-1,2-Dichloroethene	ND		6.1		ug/Kg	☼	01/29/16 19:09	01/29/16 23:37	1
1,2-Dichloropropane	ND		6.1		ug/Kg	☼	01/29/16 19:09	01/29/16 23:37	1
cis-1,3-Dichloropropene	ND		6.1		ug/Kg	☼	01/29/16 19:09	01/29/16 23:37	1
trans-1,3-Dichloropropene	ND		6.1		ug/Kg	☼	01/29/16 19:09	01/29/16 23:37	1
Ethylbenzene	ND		6.1		ug/Kg	☼	01/29/16 19:09	01/29/16 23:37	1
Hexachlorobutadiene	ND		6.1		ug/Kg	☼	01/29/16 19:09	01/29/16 23:37	1
2-Hexanone	ND		61		ug/Kg	☼	01/29/16 19:09	01/29/16 23:37	1
Isopropylbenzene	ND		6.1		ug/Kg	☼	01/29/16 19:09	01/29/16 23:37	1
4-Isopropyltoluene	ND		6.1		ug/Kg	☼	01/29/16 19:09	01/29/16 23:37	1
Methylene Chloride	ND		12		ug/Kg	☼	01/29/16 19:09	01/29/16 23:37	1
4-Methyl-2-pentanone (MIBK)	ND		61		ug/Kg	☼	01/29/16 19:09	01/29/16 23:37	1
Naphthalene	ND		12		ug/Kg	☼	01/29/16 19:09	01/29/16 23:37	1
N-Propylbenzene	ND		6.1		ug/Kg	☼	01/29/16 19:09	01/29/16 23:37	1
Styrene	ND		6.1		ug/Kg	☼	01/29/16 19:09	01/29/16 23:37	1
1,1,1,2-Tetrachloroethane	ND		6.1		ug/Kg	☼	01/29/16 19:09	01/29/16 23:37	1

TestAmerica Pleasanton



# Client Sample Results

Client: Geologica Inc  
Project/Site: Pin High

TestAmerica Job ID: 720-69933-1

**Client Sample ID: GP-9-4.5-5'**

**Lab Sample ID: 720-69933-39**

**Date Collected: 01/22/16 10:22**

**Matrix: Solid**

**Date Received: 01/22/16 17:10**

**Percent Solids: 78.2**

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		6.1		ug/Kg	☼	01/29/16 19:09	01/29/16 23:37	1
Tetrachloroethene	ND		6.1		ug/Kg	☼	01/29/16 19:09	01/29/16 23:37	1
Toluene	ND		6.1		ug/Kg	☼	01/29/16 19:09	01/29/16 23:37	1
1,2,3-Trichlorobenzene	ND		6.1		ug/Kg	☼	01/29/16 19:09	01/29/16 23:37	1
1,2,4-Trichlorobenzene	ND		6.1		ug/Kg	☼	01/29/16 19:09	01/29/16 23:37	1
1,1,1-Trichloroethane	ND		6.1		ug/Kg	☼	01/29/16 19:09	01/29/16 23:37	1
1,1,2-Trichloroethane	ND		6.1		ug/Kg	☼	01/29/16 19:09	01/29/16 23:37	1
Trichloroethene	ND		6.1		ug/Kg	☼	01/29/16 19:09	01/29/16 23:37	1
Trichlorofluoromethane	ND		6.1		ug/Kg	☼	01/29/16 19:09	01/29/16 23:37	1
1,2,3-Trichloropropane	ND		6.1		ug/Kg	☼	01/29/16 19:09	01/29/16 23:37	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		6.1		ug/Kg	☼	01/29/16 19:09	01/29/16 23:37	1
1,2,4-Trimethylbenzene	ND		6.1		ug/Kg	☼	01/29/16 19:09	01/29/16 23:37	1
1,3,5-Trimethylbenzene	ND		6.1		ug/Kg	☼	01/29/16 19:09	01/29/16 23:37	1
Vinyl acetate	ND		25		ug/Kg	☼	01/29/16 19:09	01/29/16 23:37	1
Vinyl chloride	ND		6.1		ug/Kg	☼	01/29/16 19:09	01/29/16 23:37	1
Xylenes, Total	ND		12		ug/Kg	☼	01/29/16 19:09	01/29/16 23:37	1
2,2-Dichloropropane	ND		6.1		ug/Kg	☼	01/29/16 19:09	01/29/16 23:37	1
Gasoline Range Organics (GRO) -C5-C12	ND		310		ug/Kg	☼	01/29/16 19:09	01/29/16 23:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	85		45 - 131	01/29/16 19:09	01/29/16 23:37	1
1,2-Dichloroethane-d4 (Surr)	111		60 - 140	01/29/16 19:09	01/29/16 23:37	1
Toluene-d8 (Surr)	93		58 - 140	01/29/16 19:09	01/29/16 23:37	1

## Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Diesel Range Organics [C10-C28]</b>	<b>12</b>		1.3		mg/Kg	☼	01/27/16 21:05	01/29/16 01:06	1
Motor Oil Range Organics [C24-C36]	ND		64		mg/Kg	☼	01/27/16 21:05	01/29/16 01:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Capric Acid (Surr)	0.08		0 - 1	01/27/16 21:05	01/29/16 01:06	1
p-Terphenyl	49		38 - 148	01/27/16 21:05	01/29/16 01:06	1

## Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		2.5		mg/Kg	☼	01/26/16 14:13	01/27/16 23:16	4
<b>Arsenic</b>	<b>17</b>		5.0		mg/Kg	☼	01/26/16 14:13	01/27/16 23:16	4
<b>Barium</b>	<b>250</b>		2.5		mg/Kg	☼	01/26/16 14:13	01/27/16 23:16	4
<b>Beryllium</b>	<b>0.65</b>		0.50		mg/Kg	☼	01/26/16 14:13	01/27/16 23:16	4
Cadmium	ND		0.63		mg/Kg	☼	01/26/16 14:13	01/27/16 23:16	4
<b>Chromium</b>	<b>84</b>		2.5		mg/Kg	☼	01/26/16 14:13	01/27/16 23:16	4
<b>Cobalt</b>	<b>22</b>		1.0		mg/Kg	☼	01/26/16 14:13	01/27/16 23:16	4
<b>Copper</b>	<b>45</b>		7.5		mg/Kg	☼	01/26/16 14:13	01/27/16 23:16	4
<b>Lead</b>	<b>37</b>		2.5		mg/Kg	☼	01/26/16 14:13	01/27/16 23:16	4
Molybdenum	ND		2.5		mg/Kg	☼	01/26/16 14:13	01/27/16 23:16	4
<b>Nickel</b>	<b>140</b>		2.5		mg/Kg	☼	01/26/16 14:13	01/27/16 23:16	4
Selenium	ND		5.0		mg/Kg	☼	01/26/16 14:13	01/27/16 23:16	4
Silver	ND		1.3		mg/Kg	☼	01/26/16 14:13	01/27/16 23:16	4
Thallium	ND		2.5		mg/Kg	☼	01/26/16 14:13	01/27/16 23:16	4
<b>Vanadium</b>	<b>58</b>		2.5		mg/Kg	☼	01/26/16 14:13	01/27/16 23:16	4

TestAmerica Pleasanton

# Client Sample Results

Client: Geologica Inc  
Project/Site: Pin High

TestAmerica Job ID: 720-69933-1

**Client Sample ID: GP-9-4.5-5'**

**Lab Sample ID: 720-69933-39**

Date Collected: 01/22/16 10:22

Matrix: Solid

Date Received: 01/22/16 17:10

Percent Solids: 78.2

**Method: 6010B - Metals (ICP) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	94		7.5		mg/Kg	☼	01/26/16 14:13	01/27/16 23:16	4

**Method: 7471A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	3.8		0.11		mg/Kg	☼	01/26/16 17:30	01/27/16 18:01	10

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	22		0.10		%			01/27/16 09:39	1



# Client Sample Results

Client: Geologica Inc  
Project/Site: Pin High

TestAmerica Job ID: 720-69933-1

**Client Sample ID: GP-9-7.5-8'**

**Lab Sample ID: 720-69933-40**

**Date Collected: 01/22/16 10:24**

**Matrix: Solid**

**Date Received: 01/22/16 17:10**

**Percent Solids: 77.4**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		6.0		ug/Kg	☼	01/29/16 19:09	01/30/16 00:08	1
Acetone	ND		60		ug/Kg	☼	01/29/16 19:09	01/30/16 00:08	1
Benzene	ND		6.0		ug/Kg	☼	01/29/16 19:09	01/30/16 00:08	1
Dichlorobromomethane	ND		6.0		ug/Kg	☼	01/29/16 19:09	01/30/16 00:08	1
Bromobenzene	ND		6.0		ug/Kg	☼	01/29/16 19:09	01/30/16 00:08	1
Chlorobromomethane	ND		24		ug/Kg	☼	01/29/16 19:09	01/30/16 00:08	1
Bromoform	ND		6.0		ug/Kg	☼	01/29/16 19:09	01/30/16 00:08	1
Bromomethane	ND		12		ug/Kg	☼	01/29/16 19:09	01/30/16 00:08	1
2-Butanone (MEK)	ND		60		ug/Kg	☼	01/29/16 19:09	01/30/16 00:08	1
n-Butylbenzene	ND		6.0		ug/Kg	☼	01/29/16 19:09	01/30/16 00:08	1
sec-Butylbenzene	ND		6.0		ug/Kg	☼	01/29/16 19:09	01/30/16 00:08	1
tert-Butylbenzene	ND		6.0		ug/Kg	☼	01/29/16 19:09	01/30/16 00:08	1
Carbon disulfide	ND		6.0		ug/Kg	☼	01/29/16 19:09	01/30/16 00:08	1
Carbon tetrachloride	ND		6.0		ug/Kg	☼	01/29/16 19:09	01/30/16 00:08	1
Chlorobenzene	ND		6.0		ug/Kg	☼	01/29/16 19:09	01/30/16 00:08	1
Chloroethane	ND		12		ug/Kg	☼	01/29/16 19:09	01/30/16 00:08	1
Chloroform	ND		6.0		ug/Kg	☼	01/29/16 19:09	01/30/16 00:08	1
Chloromethane	ND		12		ug/Kg	☼	01/29/16 19:09	01/30/16 00:08	1
2-Chlorotoluene	ND		6.0		ug/Kg	☼	01/29/16 19:09	01/30/16 00:08	1
4-Chlorotoluene	ND		6.0		ug/Kg	☼	01/29/16 19:09	01/30/16 00:08	1
Chlorodibromomethane	ND		6.0		ug/Kg	☼	01/29/16 19:09	01/30/16 00:08	1
1,2-Dichlorobenzene	ND		6.0		ug/Kg	☼	01/29/16 19:09	01/30/16 00:08	1
1,3-Dichlorobenzene	ND		6.0		ug/Kg	☼	01/29/16 19:09	01/30/16 00:08	1
1,4-Dichlorobenzene	ND		6.0		ug/Kg	☼	01/29/16 19:09	01/30/16 00:08	1
1,3-Dichloropropane	ND		6.0		ug/Kg	☼	01/29/16 19:09	01/30/16 00:08	1
1,1-Dichloropropane	ND		6.0		ug/Kg	☼	01/29/16 19:09	01/30/16 00:08	1
1,2-Dibromo-3-Chloropropane	ND		12		ug/Kg	☼	01/29/16 19:09	01/30/16 00:08	1
Ethylene Dibromide	ND		6.0		ug/Kg	☼	01/29/16 19:09	01/30/16 00:08	1
Dibromomethane	ND		12		ug/Kg	☼	01/29/16 19:09	01/30/16 00:08	1
Dichlorodifluoromethane	ND		12		ug/Kg	☼	01/29/16 19:09	01/30/16 00:08	1
1,1-Dichloroethane	ND		6.0		ug/Kg	☼	01/29/16 19:09	01/30/16 00:08	1
1,2-Dichloroethane	ND		6.0		ug/Kg	☼	01/29/16 19:09	01/30/16 00:08	1
1,1-Dichloroethene	ND		6.0		ug/Kg	☼	01/29/16 19:09	01/30/16 00:08	1
cis-1,2-Dichloroethene	ND		6.0		ug/Kg	☼	01/29/16 19:09	01/30/16 00:08	1
trans-1,2-Dichloroethene	ND		6.0		ug/Kg	☼	01/29/16 19:09	01/30/16 00:08	1
1,2-Dichloropropane	ND		6.0		ug/Kg	☼	01/29/16 19:09	01/30/16 00:08	1
cis-1,3-Dichloropropene	ND		6.0		ug/Kg	☼	01/29/16 19:09	01/30/16 00:08	1
trans-1,3-Dichloropropene	ND		6.0		ug/Kg	☼	01/29/16 19:09	01/30/16 00:08	1
Ethylbenzene	ND		6.0		ug/Kg	☼	01/29/16 19:09	01/30/16 00:08	1
Hexachlorobutadiene	ND		6.0		ug/Kg	☼	01/29/16 19:09	01/30/16 00:08	1
2-Hexanone	ND		60		ug/Kg	☼	01/29/16 19:09	01/30/16 00:08	1
Isopropylbenzene	ND		6.0		ug/Kg	☼	01/29/16 19:09	01/30/16 00:08	1
4-Isopropyltoluene	ND		6.0		ug/Kg	☼	01/29/16 19:09	01/30/16 00:08	1
Methylene Chloride	ND		12		ug/Kg	☼	01/29/16 19:09	01/30/16 00:08	1
4-Methyl-2-pentanone (MIBK)	ND		60		ug/Kg	☼	01/29/16 19:09	01/30/16 00:08	1
Naphthalene	ND		12		ug/Kg	☼	01/29/16 19:09	01/30/16 00:08	1
N-Propylbenzene	ND		6.0		ug/Kg	☼	01/29/16 19:09	01/30/16 00:08	1
Styrene	ND		6.0		ug/Kg	☼	01/29/16 19:09	01/30/16 00:08	1
1,1,1,2-Tetrachloroethane	ND		6.0		ug/Kg	☼	01/29/16 19:09	01/30/16 00:08	1

TestAmerica Pleasanton

# Client Sample Results

Client: Geologica Inc  
Project/Site: Pin High

TestAmerica Job ID: 720-69933-1

**Client Sample ID: GP-9-7.5-8'**

**Lab Sample ID: 720-69933-40**

**Date Collected: 01/22/16 10:24**

**Matrix: Solid**

**Date Received: 01/22/16 17:10**

**Percent Solids: 77.4**

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		6.0		ug/Kg	☼	01/29/16 19:09	01/30/16 00:08	1
Tetrachloroethene	ND		6.0		ug/Kg	☼	01/29/16 19:09	01/30/16 00:08	1
Toluene	ND		6.0		ug/Kg	☼	01/29/16 19:09	01/30/16 00:08	1
1,2,3-Trichlorobenzene	ND		6.0		ug/Kg	☼	01/29/16 19:09	01/30/16 00:08	1
1,2,4-Trichlorobenzene	ND		6.0		ug/Kg	☼	01/29/16 19:09	01/30/16 00:08	1
1,1,1-Trichloroethane	ND		6.0		ug/Kg	☼	01/29/16 19:09	01/30/16 00:08	1
1,1,2-Trichloroethane	ND		6.0		ug/Kg	☼	01/29/16 19:09	01/30/16 00:08	1
Trichloroethene	ND		6.0		ug/Kg	☼	01/29/16 19:09	01/30/16 00:08	1
Trichlorofluoromethane	ND		6.0		ug/Kg	☼	01/29/16 19:09	01/30/16 00:08	1
1,2,3-Trichloropropane	ND		6.0		ug/Kg	☼	01/29/16 19:09	01/30/16 00:08	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		6.0		ug/Kg	☼	01/29/16 19:09	01/30/16 00:08	1
1,2,4-Trimethylbenzene	ND		6.0		ug/Kg	☼	01/29/16 19:09	01/30/16 00:08	1
1,3,5-Trimethylbenzene	ND		6.0		ug/Kg	☼	01/29/16 19:09	01/30/16 00:08	1
Vinyl acetate	ND		24		ug/Kg	☼	01/29/16 19:09	01/30/16 00:08	1
Vinyl chloride	ND		6.0		ug/Kg	☼	01/29/16 19:09	01/30/16 00:08	1
Xylenes, Total	ND		12		ug/Kg	☼	01/29/16 19:09	01/30/16 00:08	1
2,2-Dichloropropane	ND		6.0		ug/Kg	☼	01/29/16 19:09	01/30/16 00:08	1
Gasoline Range Organics (GRO) -C5-C12	ND		300		ug/Kg	☼	01/29/16 19:09	01/30/16 00:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	87		45 - 131	01/29/16 19:09	01/30/16 00:08	1
1,2-Dichloroethane-d4 (Surr)	113		60 - 140	01/29/16 19:09	01/30/16 00:08	1
Toluene-d8 (Surr)	98		58 - 140	01/29/16 19:09	01/30/16 00:08	1

## Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Diesel Range Organics [C10-C28]</b>	<b>56</b>		1.3		mg/Kg	☼	01/27/16 21:05	01/29/16 03:03	1
<b>Motor Oil Range Organics [C24-C36]</b>	<b>240</b>		64		mg/Kg	☼	01/27/16 21:05	01/29/16 03:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Capric Acid (Surr)	0.02		0 - 1	01/27/16 21:05	01/29/16 03:03	1
p-Terphenyl	42		38 - 148	01/27/16 21:05	01/29/16 03:03	1

## Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		2.5		mg/Kg	☼	01/26/16 14:13	01/27/16 23:21	4
<b>Arsenic</b>	<b>7.5</b>		4.9		mg/Kg	☼	01/26/16 14:13	01/27/16 23:21	4
<b>Barium</b>	<b>210</b>		2.5		mg/Kg	☼	01/26/16 14:13	01/27/16 23:21	4
<b>Beryllium</b>	<b>0.78</b>		0.49		mg/Kg	☼	01/26/16 14:13	01/27/16 23:21	4
Cadmium	ND		0.61		mg/Kg	☼	01/26/16 14:13	01/27/16 23:21	4
<b>Chromium</b>	<b>64</b>		2.5		mg/Kg	☼	01/26/16 14:13	01/27/16 23:21	4
<b>Cobalt</b>	<b>16</b>		0.98		mg/Kg	☼	01/26/16 14:13	01/27/16 23:21	4
<b>Copper</b>	<b>43</b>		7.4		mg/Kg	☼	01/26/16 14:13	01/27/16 23:21	4
<b>Lead</b>	<b>11</b>		2.5		mg/Kg	☼	01/26/16 14:13	01/27/16 23:21	4
Molybdenum	ND		2.5		mg/Kg	☼	01/26/16 14:13	01/27/16 23:21	4
<b>Nickel</b>	<b>88</b>		2.5		mg/Kg	☼	01/26/16 14:13	01/27/16 23:21	4
Selenium	ND		4.9		mg/Kg	☼	01/26/16 14:13	01/27/16 23:21	4
Silver	ND		1.2		mg/Kg	☼	01/26/16 14:13	01/27/16 23:21	4
Thallium	ND		2.5		mg/Kg	☼	01/26/16 14:13	01/27/16 23:21	4

TestAmerica Pleasanton

# Client Sample Results

Client: Geologica Inc  
Project/Site: Pin High

TestAmerica Job ID: 720-69933-1

**Client Sample ID: GP-9-7.5-8'**

**Lab Sample ID: 720-69933-40**

Date Collected: 01/22/16 10:24

Matrix: Solid

Date Received: 01/22/16 17:10

Percent Solids: 77.4

**Method: 6010B - Metals (ICP) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vanadium	51		2.5		mg/Kg	☼	01/26/16 14:13	01/27/16 23:21	4
Zinc	73		7.4		mg/Kg	☼	01/26/16 14:13	01/27/16 23:21	4

**Method: 7471A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.087		0.011		mg/Kg	☼	01/26/16 17:30	01/27/16 17:42	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	23		0.10		%	-		01/27/16 09:39	1



# Client Sample Results

Client: Geologica Inc  
Project/Site: Pin High

TestAmerica Job ID: 720-69933-1

**Client Sample ID: GP-10-3.5-4'**

**Lab Sample ID: 720-69933-43**

**Date Collected: 01/22/16 11:10**

**Matrix: Solid**

**Date Received: 01/22/16 17:10**

**Percent Solids: 87.1**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		5.7		ug/Kg	☼	01/27/16 19:40	01/29/16 03:40	1
Acetone	ND		57		ug/Kg	☼	01/27/16 19:40	01/29/16 03:40	1
Benzene	ND		5.7		ug/Kg	☼	01/27/16 19:40	01/29/16 03:40	1
Dichlorobromomethane	ND		5.7		ug/Kg	☼	01/27/16 19:40	01/29/16 03:40	1
Bromobenzene	ND		5.7		ug/Kg	☼	01/27/16 19:40	01/29/16 03:40	1
Chlorobromomethane	ND		23		ug/Kg	☼	01/27/16 19:40	01/29/16 03:40	1
Bromoform	ND		5.7		ug/Kg	☼	01/27/16 19:40	01/29/16 03:40	1
Bromomethane	ND		11		ug/Kg	☼	01/27/16 19:40	01/29/16 03:40	1
2-Butanone (MEK)	ND		57		ug/Kg	☼	01/27/16 19:40	01/29/16 03:40	1
n-Butylbenzene	ND		5.7		ug/Kg	☼	01/27/16 19:40	01/29/16 03:40	1
sec-Butylbenzene	ND		5.7		ug/Kg	☼	01/27/16 19:40	01/29/16 03:40	1
tert-Butylbenzene	ND		5.7		ug/Kg	☼	01/27/16 19:40	01/29/16 03:40	1
Carbon disulfide	ND		5.7		ug/Kg	☼	01/27/16 19:40	01/29/16 03:40	1
Carbon tetrachloride	ND		5.7		ug/Kg	☼	01/27/16 19:40	01/29/16 03:40	1
Chlorobenzene	ND		5.7		ug/Kg	☼	01/27/16 19:40	01/29/16 03:40	1
Chloroethane	ND		11		ug/Kg	☼	01/27/16 19:40	01/29/16 03:40	1
Chloroform	ND		5.7		ug/Kg	☼	01/27/16 19:40	01/29/16 03:40	1
Chloromethane	ND		11		ug/Kg	☼	01/27/16 19:40	01/29/16 03:40	1
2-Chlorotoluene	ND		5.7		ug/Kg	☼	01/27/16 19:40	01/29/16 03:40	1
4-Chlorotoluene	ND		5.7		ug/Kg	☼	01/27/16 19:40	01/29/16 03:40	1
Chlorodibromomethane	ND		5.7		ug/Kg	☼	01/27/16 19:40	01/29/16 03:40	1
1,2-Dichlorobenzene	ND		5.7		ug/Kg	☼	01/27/16 19:40	01/29/16 03:40	1
1,3-Dichlorobenzene	ND		5.7		ug/Kg	☼	01/27/16 19:40	01/29/16 03:40	1
1,4-Dichlorobenzene	ND		5.7		ug/Kg	☼	01/27/16 19:40	01/29/16 03:40	1
1,3-Dichloropropane	ND		5.7		ug/Kg	☼	01/27/16 19:40	01/29/16 03:40	1
1,1-Dichloropropene	ND		5.7		ug/Kg	☼	01/27/16 19:40	01/29/16 03:40	1
1,2-Dibromo-3-Chloropropane	ND		11		ug/Kg	☼	01/27/16 19:40	01/29/16 03:40	1
Ethylene Dibromide	ND		5.7		ug/Kg	☼	01/27/16 19:40	01/29/16 03:40	1
Dibromomethane	ND		11		ug/Kg	☼	01/27/16 19:40	01/29/16 03:40	1
Dichlorodifluoromethane	ND		11		ug/Kg	☼	01/27/16 19:40	01/29/16 03:40	1
1,1-Dichloroethane	ND		5.7		ug/Kg	☼	01/27/16 19:40	01/29/16 03:40	1
1,2-Dichloroethane	ND		5.7		ug/Kg	☼	01/27/16 19:40	01/29/16 03:40	1
1,1-Dichloroethene	ND		5.7		ug/Kg	☼	01/27/16 19:40	01/29/16 03:40	1
cis-1,2-Dichloroethene	ND		5.7		ug/Kg	☼	01/27/16 19:40	01/29/16 03:40	1
trans-1,2-Dichloroethene	ND		5.7		ug/Kg	☼	01/27/16 19:40	01/29/16 03:40	1
1,2-Dichloropropane	ND		5.7		ug/Kg	☼	01/27/16 19:40	01/29/16 03:40	1
cis-1,3-Dichloropropene	ND		5.7		ug/Kg	☼	01/27/16 19:40	01/29/16 03:40	1
trans-1,3-Dichloropropene	ND		5.7		ug/Kg	☼	01/27/16 19:40	01/29/16 03:40	1
Ethylbenzene	ND		5.7		ug/Kg	☼	01/27/16 19:40	01/29/16 03:40	1
Hexachlorobutadiene	ND		5.7		ug/Kg	☼	01/27/16 19:40	01/29/16 03:40	1
2-Hexanone	ND		57		ug/Kg	☼	01/27/16 19:40	01/29/16 03:40	1
Isopropylbenzene	ND		5.7		ug/Kg	☼	01/27/16 19:40	01/29/16 03:40	1
4-Isopropyltoluene	ND		5.7		ug/Kg	☼	01/27/16 19:40	01/29/16 03:40	1
Methylene Chloride	ND		11		ug/Kg	☼	01/27/16 19:40	01/29/16 03:40	1
4-Methyl-2-pentanone (MIBK)	ND		57		ug/Kg	☼	01/27/16 19:40	01/29/16 03:40	1
Naphthalene	ND		11		ug/Kg	☼	01/27/16 19:40	01/29/16 03:40	1
N-Propylbenzene	ND		5.7		ug/Kg	☼	01/27/16 19:40	01/29/16 03:40	1
Styrene	ND		5.7		ug/Kg	☼	01/27/16 19:40	01/29/16 03:40	1
1,1,1,2-Tetrachloroethane	ND		5.7		ug/Kg	☼	01/27/16 19:40	01/29/16 03:40	1

TestAmerica Pleasanton

# Client Sample Results

Client: Geologica Inc  
Project/Site: Pin High

TestAmerica Job ID: 720-69933-1

**Client Sample ID: GP-10-3.5-4'**

**Lab Sample ID: 720-69933-43**

**Date Collected: 01/22/16 11:10**

**Matrix: Solid**

**Date Received: 01/22/16 17:10**

**Percent Solids: 87.1**

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		5.7		ug/Kg	☼	01/27/16 19:40	01/29/16 03:40	1
Tetrachloroethene	ND		5.7		ug/Kg	☼	01/27/16 19:40	01/29/16 03:40	1
Toluene	ND		5.7		ug/Kg	☼	01/27/16 19:40	01/29/16 03:40	1
1,2,3-Trichlorobenzene	ND		5.7		ug/Kg	☼	01/27/16 19:40	01/29/16 03:40	1
1,2,4-Trichlorobenzene	ND		5.7		ug/Kg	☼	01/27/16 19:40	01/29/16 03:40	1
1,1,1-Trichloroethane	ND		5.7		ug/Kg	☼	01/27/16 19:40	01/29/16 03:40	1
1,1,2-Trichloroethane	ND		5.7		ug/Kg	☼	01/27/16 19:40	01/29/16 03:40	1
Trichloroethene	ND		5.7		ug/Kg	☼	01/27/16 19:40	01/29/16 03:40	1
Trichlorofluoromethane	ND		5.7		ug/Kg	☼	01/27/16 19:40	01/29/16 03:40	1
1,2,3-Trichloropropane	ND		5.7		ug/Kg	☼	01/27/16 19:40	01/29/16 03:40	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.7		ug/Kg	☼	01/27/16 19:40	01/29/16 03:40	1
1,2,4-Trimethylbenzene	ND		5.7		ug/Kg	☼	01/27/16 19:40	01/29/16 03:40	1
1,3,5-Trimethylbenzene	ND		5.7		ug/Kg	☼	01/27/16 19:40	01/29/16 03:40	1
Vinyl acetate	ND		23		ug/Kg	☼	01/27/16 19:40	01/29/16 03:40	1
Vinyl chloride	ND		5.7		ug/Kg	☼	01/27/16 19:40	01/29/16 03:40	1
Xylenes, Total	ND		11		ug/Kg	☼	01/27/16 19:40	01/29/16 03:40	1
2,2-Dichloropropane	ND		5.7		ug/Kg	☼	01/27/16 19:40	01/29/16 03:40	1
Gasoline Range Organics (GRO) -C5-C12	ND		290		ug/Kg	☼	01/27/16 19:40	01/29/16 03:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	86		45 - 131	01/27/16 19:40	01/29/16 03:40	1
1,2-Dichloroethane-d4 (Surr)	115		60 - 140	01/27/16 19:40	01/29/16 03:40	1
Toluene-d8 (Surr)	96		58 - 140	01/27/16 19:40	01/29/16 03:40	1

## Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	400		23		mg/Kg	☼	01/27/16 21:05	01/29/16 02:35	20
Motor Oil Range Organics [C24-C36]	2100		1100		mg/Kg	☼	01/27/16 21:05	01/29/16 02:35	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Capric Acid (Surr)	0		0 - 1	01/27/16 21:05	01/29/16 02:35	20
p-Terphenyl	0	X D	38 - 148	01/27/16 21:05	01/29/16 02:35	20

## Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		4.5		ug/Kg	☼	01/27/16 15:48	01/28/16 19:00	2
Dieldrin	ND		4.5		ug/Kg	☼	01/27/16 15:48	01/28/16 19:00	2
Endrin aldehyde	ND		4.5		ug/Kg	☼	01/27/16 15:48	01/28/16 19:00	2
Endrin	ND		4.5		ug/Kg	☼	01/27/16 15:48	01/28/16 19:00	2
Endrin ketone	ND		4.5		ug/Kg	☼	01/27/16 15:48	01/28/16 19:00	2
Heptachlor	ND		4.5		ug/Kg	☼	01/27/16 15:48	01/28/16 19:00	2
Heptachlor epoxide	ND		4.5		ug/Kg	☼	01/27/16 15:48	01/28/16 19:00	2
4,4'-DDT	ND		4.5		ug/Kg	☼	01/27/16 15:48	01/28/16 19:00	2
4,4'-DDE	ND		4.5		ug/Kg	☼	01/27/16 15:48	01/28/16 19:00	2
4,4'-DDD	ND		4.5		ug/Kg	☼	01/27/16 15:48	01/28/16 19:00	2
Endosulfan I	ND		4.5		ug/Kg	☼	01/27/16 15:48	01/28/16 19:00	2
Endosulfan II	ND		4.5		ug/Kg	☼	01/27/16 15:48	01/28/16 19:00	2
alpha-BHC	ND		4.5		ug/Kg	☼	01/27/16 15:48	01/28/16 19:00	2
beta-BHC	ND		4.5		ug/Kg	☼	01/27/16 15:48	01/28/16 19:00	2

TestAmerica Pleasanton



# Client Sample Results

Client: Geologica Inc  
Project/Site: Pin High

TestAmerica Job ID: 720-69933-1

**Client Sample ID: GP-10-3.5-4'**

**Lab Sample ID: 720-69933-43**

**Date Collected: 01/22/16 11:10**

**Matrix: Solid**

**Date Received: 01/22/16 17:10**

**Percent Solids: 87.1**

## Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
gamma-BHC (Lindane)	ND		4.5		ug/Kg	☼	01/27/16 15:48	01/28/16 19:00	2
delta-BHC	ND		4.5		ug/Kg	☼	01/27/16 15:48	01/28/16 19:00	2
Endosulfan sulfate	ND		4.5		ug/Kg	☼	01/27/16 15:48	01/28/16 19:00	2
Methoxychlor	ND		4.5		ug/Kg	☼	01/27/16 15:48	01/28/16 19:00	2
Toxaphene	ND		90		ug/Kg	☼	01/27/16 15:48	01/28/16 19:00	2
Chlordane (technical)	ND		90		ug/Kg	☼	01/27/16 15:48	01/28/16 19:00	2
alpha-Chlordane	ND		4.5		ug/Kg	☼	01/27/16 15:48	01/28/16 19:00	2
gamma-Chlordane	ND		4.5		ug/Kg	☼	01/27/16 15:48	01/28/16 19:00	2
Hexachlorobenzene	ND		4.5		ug/Kg	☼	01/27/16 15:48	01/28/16 19:00	2
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Tetrachloro-m-xylene	67		57 - 122				01/27/16 15:48	01/28/16 19:00	2
DCB Decachlorobiphenyl	119		21 - 136				01/27/16 15:48	01/28/16 19:00	2

## Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		56		ug/Kg	☼	01/27/16 15:59	01/28/16 18:38	1
PCB-1221	ND		56		ug/Kg	☼	01/27/16 15:59	01/28/16 18:38	1
PCB-1232	ND		56		ug/Kg	☼	01/27/16 15:59	01/28/16 18:38	1
PCB-1242	ND		56		ug/Kg	☼	01/27/16 15:59	01/28/16 18:38	1
PCB-1248	ND		56		ug/Kg	☼	01/27/16 15:59	01/28/16 18:38	1
PCB-1254	ND		56		ug/Kg	☼	01/27/16 15:59	01/28/16 18:38	1
PCB-1260	ND		56		ug/Kg	☼	01/27/16 15:59	01/28/16 18:38	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Tetrachloro-m-xylene	78		45 - 132				01/27/16 15:59	01/28/16 18:38	1
DCB Decachlorobiphenyl	68		42 - 146				01/27/16 15:59	01/28/16 18:38	1

## Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.50		mg/Kg	☼	01/26/16 14:13	01/28/16 16:27	1
<b>Arsenic</b>	<b>1.0</b>		1.0		mg/Kg	☼	01/26/16 14:13	01/28/16 16:27	1
<b>Barium</b>	<b>33</b>		2.0		mg/Kg	☼	01/26/16 14:13	01/27/16 23:26	4
<b>Beryllium</b>	<b>0.20</b>		0.10		mg/Kg	☼	01/26/16 14:13	01/28/16 16:27	1
Cadmium	ND		0.12		mg/Kg	☼	01/26/16 14:13	01/28/16 16:27	1
<b>Chromium</b>	<b>7.1</b>		2.0		mg/Kg	☼	01/26/16 14:13	01/27/16 23:26	4
<b>Cobalt</b>	<b>1.6</b>		0.80		mg/Kg	☼	01/26/16 14:13	01/27/16 23:26	4
<b>Copper</b>	<b>2.4</b>		1.5		mg/Kg	☼	01/26/16 14:13	01/28/16 16:27	1
<b>Lead</b>	<b>3.5</b>		2.0		mg/Kg	☼	01/26/16 14:13	01/27/16 23:26	4
<b>Molybdenum</b>	<b>0.89</b>		0.50		mg/Kg	☼	01/26/16 14:13	01/28/16 16:27	1
<b>Nickel</b>	<b>4.8</b>		2.0		mg/Kg	☼	01/26/16 14:13	01/27/16 23:26	4
Selenium	ND		1.0		mg/Kg	☼	01/26/16 14:13	01/28/16 16:27	1
Silver	ND		0.25		mg/Kg	☼	01/26/16 14:13	01/28/16 16:27	1
Thallium	ND		2.0		mg/Kg	☼	01/26/16 14:13	01/27/16 23:26	4
<b>Vanadium</b>	<b>9.4</b>		2.0		mg/Kg	☼	01/26/16 14:13	01/27/16 23:26	4
<b>Zinc</b>	<b>10</b>		6.0		mg/Kg	☼	01/26/16 14:13	01/27/16 23:26	4

## Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.024</b>		0.010		mg/Kg	☼	01/26/16 17:30	01/27/16 17:45	1

TestAmerica Pleasanton

# Client Sample Results

Client: Geologica Inc  
Project/Site: Pin High

TestAmerica Job ID: 720-69933-1

**Client Sample ID: GP-10-3.5-4'**

**Lab Sample ID: 720-69933-43**

**Date Collected: 01/22/16 11:10**

**Matrix: Solid**

**Date Received: 01/22/16 17:10**

**Percent Solids: 87.1**

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	13		0.10		%			01/27/16 09:39	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

# Client Sample Results

Client: Geologica Inc  
Project/Site: Pin High

TestAmerica Job ID: 720-69933-1

**Client Sample ID: GP-10-7.5-8'**

**Lab Sample ID: 720-69933-44**

**Date Collected: 01/22/16 11:12**

**Matrix: Solid**

**Date Received: 01/22/16 17:10**

**Percent Solids: 73.6**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		6.3		ug/Kg	☼	01/29/16 19:09	01/30/16 00:38	1
Acetone	ND		63		ug/Kg	☼	01/29/16 19:09	01/30/16 00:38	1
Benzene	ND		6.3		ug/Kg	☼	01/29/16 19:09	01/30/16 00:38	1
Dichlorobromomethane	ND		6.3		ug/Kg	☼	01/29/16 19:09	01/30/16 00:38	1
Bromobenzene	ND		6.3		ug/Kg	☼	01/29/16 19:09	01/30/16 00:38	1
Chlorobromomethane	ND		25		ug/Kg	☼	01/29/16 19:09	01/30/16 00:38	1
Bromoform	ND		6.3		ug/Kg	☼	01/29/16 19:09	01/30/16 00:38	1
Bromomethane	ND		13		ug/Kg	☼	01/29/16 19:09	01/30/16 00:38	1
2-Butanone (MEK)	ND		63		ug/Kg	☼	01/29/16 19:09	01/30/16 00:38	1
n-Butylbenzene	ND		6.3		ug/Kg	☼	01/29/16 19:09	01/30/16 00:38	1
sec-Butylbenzene	ND		6.3		ug/Kg	☼	01/29/16 19:09	01/30/16 00:38	1
tert-Butylbenzene	ND		6.3		ug/Kg	☼	01/29/16 19:09	01/30/16 00:38	1
Carbon disulfide	ND		6.3		ug/Kg	☼	01/29/16 19:09	01/30/16 00:38	1
Carbon tetrachloride	ND		6.3		ug/Kg	☼	01/29/16 19:09	01/30/16 00:38	1
Chlorobenzene	ND		6.3		ug/Kg	☼	01/29/16 19:09	01/30/16 00:38	1
Chloroethane	ND		13		ug/Kg	☼	01/29/16 19:09	01/30/16 00:38	1
Chloroform	ND		6.3		ug/Kg	☼	01/29/16 19:09	01/30/16 00:38	1
Chloromethane	ND		13		ug/Kg	☼	01/29/16 19:09	01/30/16 00:38	1
2-Chlorotoluene	ND		6.3		ug/Kg	☼	01/29/16 19:09	01/30/16 00:38	1
4-Chlorotoluene	ND		6.3		ug/Kg	☼	01/29/16 19:09	01/30/16 00:38	1
Chlorodibromomethane	ND		6.3		ug/Kg	☼	01/29/16 19:09	01/30/16 00:38	1
1,2-Dichlorobenzene	ND		6.3		ug/Kg	☼	01/29/16 19:09	01/30/16 00:38	1
1,3-Dichlorobenzene	ND		6.3		ug/Kg	☼	01/29/16 19:09	01/30/16 00:38	1
1,4-Dichlorobenzene	ND		6.3		ug/Kg	☼	01/29/16 19:09	01/30/16 00:38	1
1,3-Dichloropropane	ND		6.3		ug/Kg	☼	01/29/16 19:09	01/30/16 00:38	1
1,1-Dichloropropane	ND		6.3		ug/Kg	☼	01/29/16 19:09	01/30/16 00:38	1
1,2-Dibromo-3-Chloropropane	ND		13		ug/Kg	☼	01/29/16 19:09	01/30/16 00:38	1
Ethylene Dibromide	ND		6.3		ug/Kg	☼	01/29/16 19:09	01/30/16 00:38	1
Dibromomethane	ND		13		ug/Kg	☼	01/29/16 19:09	01/30/16 00:38	1
Dichlorodifluoromethane	ND		13		ug/Kg	☼	01/29/16 19:09	01/30/16 00:38	1
1,1-Dichloroethane	ND		6.3		ug/Kg	☼	01/29/16 19:09	01/30/16 00:38	1
1,2-Dichloroethane	ND		6.3		ug/Kg	☼	01/29/16 19:09	01/30/16 00:38	1
1,1-Dichloroethene	ND		6.3		ug/Kg	☼	01/29/16 19:09	01/30/16 00:38	1
cis-1,2-Dichloroethene	ND		6.3		ug/Kg	☼	01/29/16 19:09	01/30/16 00:38	1
trans-1,2-Dichloroethene	ND		6.3		ug/Kg	☼	01/29/16 19:09	01/30/16 00:38	1
1,2-Dichloropropane	ND		6.3		ug/Kg	☼	01/29/16 19:09	01/30/16 00:38	1
cis-1,3-Dichloropropene	ND		6.3		ug/Kg	☼	01/29/16 19:09	01/30/16 00:38	1
trans-1,3-Dichloropropene	ND		6.3		ug/Kg	☼	01/29/16 19:09	01/30/16 00:38	1
Ethylbenzene	ND		6.3		ug/Kg	☼	01/29/16 19:09	01/30/16 00:38	1
Hexachlorobutadiene	ND		6.3		ug/Kg	☼	01/29/16 19:09	01/30/16 00:38	1
2-Hexanone	ND		63		ug/Kg	☼	01/29/16 19:09	01/30/16 00:38	1
Isopropylbenzene	ND		6.3		ug/Kg	☼	01/29/16 19:09	01/30/16 00:38	1
4-Isopropyltoluene	ND		6.3		ug/Kg	☼	01/29/16 19:09	01/30/16 00:38	1
Methylene Chloride	ND		13		ug/Kg	☼	01/29/16 19:09	01/30/16 00:38	1
4-Methyl-2-pentanone (MIBK)	ND		63		ug/Kg	☼	01/29/16 19:09	01/30/16 00:38	1
Naphthalene	ND		13		ug/Kg	☼	01/29/16 19:09	01/30/16 00:38	1
N-Propylbenzene	ND		6.3		ug/Kg	☼	01/29/16 19:09	01/30/16 00:38	1
Styrene	ND		6.3		ug/Kg	☼	01/29/16 19:09	01/30/16 00:38	1
1,1,1,2-Tetrachloroethane	ND		6.3		ug/Kg	☼	01/29/16 19:09	01/30/16 00:38	1

TestAmerica Pleasanton

# Client Sample Results

Client: Geologica Inc  
Project/Site: Pin High

TestAmerica Job ID: 720-69933-1

**Client Sample ID: GP-10-7.5-8'**

**Lab Sample ID: 720-69933-44**

**Date Collected: 01/22/16 11:12**

**Matrix: Solid**

**Date Received: 01/22/16 17:10**

**Percent Solids: 73.6**

**Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		6.3		ug/Kg	☼	01/29/16 19:09	01/30/16 00:38	1
Tetrachloroethene	ND		6.3		ug/Kg	☼	01/29/16 19:09	01/30/16 00:38	1
Toluene	ND		6.3		ug/Kg	☼	01/29/16 19:09	01/30/16 00:38	1
1,2,3-Trichlorobenzene	ND		6.3		ug/Kg	☼	01/29/16 19:09	01/30/16 00:38	1
1,2,4-Trichlorobenzene	ND		6.3		ug/Kg	☼	01/29/16 19:09	01/30/16 00:38	1
1,1,1-Trichloroethane	ND		6.3		ug/Kg	☼	01/29/16 19:09	01/30/16 00:38	1
1,1,2-Trichloroethane	ND		6.3		ug/Kg	☼	01/29/16 19:09	01/30/16 00:38	1
Trichloroethene	ND		6.3		ug/Kg	☼	01/29/16 19:09	01/30/16 00:38	1
Trichlorofluoromethane	ND		6.3		ug/Kg	☼	01/29/16 19:09	01/30/16 00:38	1
1,2,3-Trichloropropane	ND		6.3		ug/Kg	☼	01/29/16 19:09	01/30/16 00:38	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		6.3		ug/Kg	☼	01/29/16 19:09	01/30/16 00:38	1
1,2,4-Trimethylbenzene	ND		6.3		ug/Kg	☼	01/29/16 19:09	01/30/16 00:38	1
1,3,5-Trimethylbenzene	ND		6.3		ug/Kg	☼	01/29/16 19:09	01/30/16 00:38	1
Vinyl acetate	ND		25		ug/Kg	☼	01/29/16 19:09	01/30/16 00:38	1
Vinyl chloride	ND		6.3		ug/Kg	☼	01/29/16 19:09	01/30/16 00:38	1
Xylenes, Total	ND		13		ug/Kg	☼	01/29/16 19:09	01/30/16 00:38	1
2,2-Dichloropropane	ND		6.3		ug/Kg	☼	01/29/16 19:09	01/30/16 00:38	1
Gasoline Range Organics (GRO) -C5-C12	ND		310		ug/Kg	☼	01/29/16 19:09	01/30/16 00:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	83		45 - 131	01/29/16 19:09	01/30/16 00:38	1
1,2-Dichloroethane-d4 (Surr)	115		60 - 140	01/29/16 19:09	01/30/16 00:38	1
Toluene-d8 (Surr)	95		58 - 140	01/29/16 19:09	01/30/16 00:38	1

**Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Diesel Range Organics [C10-C28]</b>	<b>2.4</b>		1.4		mg/Kg	☼	01/27/16 21:05	01/28/16 23:10	1
Motor Oil Range Organics [C24-C36]	ND		68		mg/Kg	☼	01/27/16 21:05	01/28/16 23:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Capric Acid (Surr)	0.02		0 - 1	01/27/16 21:05	01/28/16 23:10	1
p-Terphenyl	64		38 - 148	01/27/16 21:05	01/28/16 23:10	1

**Method: 8081A - Organochlorine Pesticides (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		2.7		ug/Kg	☼	01/27/16 15:48	01/28/16 17:36	1
Dieldrin	ND		2.7		ug/Kg	☼	01/27/16 15:48	01/28/16 17:36	1
Endrin aldehyde	ND		2.7		ug/Kg	☼	01/27/16 15:48	01/28/16 17:36	1
Endrin	ND		2.7		ug/Kg	☼	01/27/16 15:48	01/28/16 17:36	1
Endrin ketone	ND		2.7		ug/Kg	☼	01/27/16 15:48	01/28/16 17:36	1
Heptachlor	ND		2.7		ug/Kg	☼	01/27/16 15:48	01/28/16 17:36	1
Heptachlor epoxide	ND		2.7		ug/Kg	☼	01/27/16 15:48	01/28/16 17:36	1
4,4'-DDT	ND		2.7		ug/Kg	☼	01/27/16 15:48	01/28/16 17:36	1
4,4'-DDE	ND		2.7		ug/Kg	☼	01/27/16 15:48	01/28/16 17:36	1
4,4'-DDD	ND		2.7		ug/Kg	☼	01/27/16 15:48	01/28/16 17:36	1
Endosulfan I	ND		2.7		ug/Kg	☼	01/27/16 15:48	01/28/16 17:36	1
Endosulfan II	ND		2.7		ug/Kg	☼	01/27/16 15:48	01/28/16 17:36	1
alpha-BHC	ND		2.7		ug/Kg	☼	01/27/16 15:48	01/28/16 17:36	1
beta-BHC	ND		2.7		ug/Kg	☼	01/27/16 15:48	01/28/16 17:36	1
gamma-BHC (Lindane)	ND		2.7		ug/Kg	☼	01/27/16 15:48	01/28/16 17:36	1

TestAmerica Pleasanton

# Client Sample Results

Client: Geologica Inc  
Project/Site: Pin High

TestAmerica Job ID: 720-69933-1

**Client Sample ID: GP-10-7.5-8'**

**Lab Sample ID: 720-69933-44**

**Date Collected: 01/22/16 11:12**

**Matrix: Solid**

**Date Received: 01/22/16 17:10**

**Percent Solids: 73.6**

## Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
delta-BHC	ND		2.7		ug/Kg	☼	01/27/16 15:48	01/28/16 17:36	1
Endosulfan sulfate	ND		2.7		ug/Kg	☼	01/27/16 15:48	01/28/16 17:36	1
Methoxychlor	ND		2.7		ug/Kg	☼	01/27/16 15:48	01/28/16 17:36	1
Toxaphene	ND		54		ug/Kg	☼	01/27/16 15:48	01/28/16 17:36	1
Chlordane (technical)	ND		54		ug/Kg	☼	01/27/16 15:48	01/28/16 17:36	1
alpha-Chlordane	ND		2.7		ug/Kg	☼	01/27/16 15:48	01/28/16 17:36	1
gamma-Chlordane	ND		2.7		ug/Kg	☼	01/27/16 15:48	01/28/16 17:36	1
Hexachlorobenzene	ND		2.7		ug/Kg	☼	01/27/16 15:48	01/28/16 17:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	109		57 - 122	01/27/16 15:48	01/28/16 17:36	1
DCB Decachlorobiphenyl	99		21 - 136	01/27/16 15:48	01/28/16 17:36	1

## Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		68		ug/Kg	☼	01/27/16 15:59	01/28/16 18:55	1
PCB-1221	ND		68		ug/Kg	☼	01/27/16 15:59	01/28/16 18:55	1
PCB-1232	ND		68		ug/Kg	☼	01/27/16 15:59	01/28/16 18:55	1
PCB-1242	ND		68		ug/Kg	☼	01/27/16 15:59	01/28/16 18:55	1
PCB-1248	ND		68		ug/Kg	☼	01/27/16 15:59	01/28/16 18:55	1
PCB-1254	ND		68		ug/Kg	☼	01/27/16 15:59	01/28/16 18:55	1
PCB-1260	ND		68		ug/Kg	☼	01/27/16 15:59	01/28/16 18:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	77		45 - 132	01/27/16 15:59	01/28/16 18:55	1
DCB Decachlorobiphenyl	69		42 - 146	01/27/16 15:59	01/28/16 18:55	1

## Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		1.8		mg/Kg	☼	01/26/16 14:13	01/27/16 23:31	4
<b>Arsenic</b>	<b>5.6</b>		3.6		mg/Kg	☼	01/26/16 14:13	01/27/16 23:31	4
<b>Barium</b>	<b>250</b>		1.8		mg/Kg	☼	01/26/16 14:13	01/27/16 23:31	4
<b>Beryllium</b>	<b>0.74</b>		0.36		mg/Kg	☼	01/26/16 14:13	01/27/16 23:31	4
Cadmium	ND		0.46		mg/Kg	☼	01/26/16 14:13	01/27/16 23:31	4
<b>Chromium</b>	<b>72</b>		1.8		mg/Kg	☼	01/26/16 14:13	01/27/16 23:31	4
<b>Cobalt</b>	<b>15</b>		0.73		mg/Kg	☼	01/26/16 14:13	01/27/16 23:31	4
<b>Copper</b>	<b>38</b>		5.5		mg/Kg	☼	01/26/16 14:13	01/27/16 23:31	4
<b>Lead</b>	<b>11</b>		1.8		mg/Kg	☼	01/26/16 14:13	01/27/16 23:31	4
Molybdenum	ND		1.8		mg/Kg	☼	01/26/16 14:13	01/27/16 23:31	4
<b>Nickel</b>	<b>90</b>		1.8		mg/Kg	☼	01/26/16 14:13	01/27/16 23:31	4
Selenium	ND		3.6		mg/Kg	☼	01/26/16 14:13	01/27/16 23:31	4
Silver	ND		0.91		mg/Kg	☼	01/26/16 14:13	01/27/16 23:31	4
Thallium	ND		1.8		mg/Kg	☼	01/26/16 14:13	01/27/16 23:31	4
<b>Vanadium</b>	<b>57</b>		1.8		mg/Kg	☼	01/26/16 14:13	01/27/16 23:31	4
<b>Zinc</b>	<b>73</b>		5.5		mg/Kg	☼	01/26/16 14:13	01/27/16 23:31	4

## Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.11</b>	<b>F1</b>	0.012		mg/Kg	☼	01/26/16 18:10	01/27/16 19:55	1

TestAmerica Pleasanton

# Client Sample Results

Client: Geologica Inc  
Project/Site: Pin High

TestAmerica Job ID: 720-69933-1

**Client Sample ID: GP-10-7.5-8'**

**Lab Sample ID: 720-69933-44**

**Date Collected: 01/22/16 11:12**

**Matrix: Solid**

**Date Received: 01/22/16 17:10**

**Percent Solids: 73.6**

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	26		0.10		%			01/27/16 09:39	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

# Client Sample Results

Client: Geologica Inc  
Project/Site: Pin High

TestAmerica Job ID: 720-69933-1

**Client Sample ID: GP-11-3.5-4'**

**Lab Sample ID: 720-69933-47**

**Date Collected: 01/22/16 12:00**

**Matrix: Solid**

**Date Received: 01/22/16 17:10**

**Percent Solids: 79.5**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		6.0		ug/Kg	☼	01/29/16 19:09	01/30/16 01:08	1
Acetone	ND		60		ug/Kg	☼	01/29/16 19:09	01/30/16 01:08	1
Benzene	ND		6.0		ug/Kg	☼	01/29/16 19:09	01/30/16 01:08	1
Dichlorobromomethane	ND		6.0		ug/Kg	☼	01/29/16 19:09	01/30/16 01:08	1
Bromobenzene	ND		6.0		ug/Kg	☼	01/29/16 19:09	01/30/16 01:08	1
Chlorobromomethane	ND		24		ug/Kg	☼	01/29/16 19:09	01/30/16 01:08	1
Bromoform	ND		6.0		ug/Kg	☼	01/29/16 19:09	01/30/16 01:08	1
Bromomethane	ND		12		ug/Kg	☼	01/29/16 19:09	01/30/16 01:08	1
2-Butanone (MEK)	ND		60		ug/Kg	☼	01/29/16 19:09	01/30/16 01:08	1
n-Butylbenzene	ND		6.0		ug/Kg	☼	01/29/16 19:09	01/30/16 01:08	1
sec-Butylbenzene	ND		6.0		ug/Kg	☼	01/29/16 19:09	01/30/16 01:08	1
tert-Butylbenzene	ND		6.0		ug/Kg	☼	01/29/16 19:09	01/30/16 01:08	1
Carbon disulfide	ND		6.0		ug/Kg	☼	01/29/16 19:09	01/30/16 01:08	1
Carbon tetrachloride	ND		6.0		ug/Kg	☼	01/29/16 19:09	01/30/16 01:08	1
Chlorobenzene	ND		6.0		ug/Kg	☼	01/29/16 19:09	01/30/16 01:08	1
Chloroethane	ND		12		ug/Kg	☼	01/29/16 19:09	01/30/16 01:08	1
Chloroform	ND		6.0		ug/Kg	☼	01/29/16 19:09	01/30/16 01:08	1
Chloromethane	ND		12		ug/Kg	☼	01/29/16 19:09	01/30/16 01:08	1
2-Chlorotoluene	ND		6.0		ug/Kg	☼	01/29/16 19:09	01/30/16 01:08	1
4-Chlorotoluene	ND		6.0		ug/Kg	☼	01/29/16 19:09	01/30/16 01:08	1
Chlorodibromomethane	ND		6.0		ug/Kg	☼	01/29/16 19:09	01/30/16 01:08	1
1,2-Dichlorobenzene	ND		6.0		ug/Kg	☼	01/29/16 19:09	01/30/16 01:08	1
1,3-Dichlorobenzene	ND		6.0		ug/Kg	☼	01/29/16 19:09	01/30/16 01:08	1
1,4-Dichlorobenzene	ND		6.0		ug/Kg	☼	01/29/16 19:09	01/30/16 01:08	1
1,3-Dichloropropane	ND		6.0		ug/Kg	☼	01/29/16 19:09	01/30/16 01:08	1
1,1-Dichloropropene	ND		6.0		ug/Kg	☼	01/29/16 19:09	01/30/16 01:08	1
1,2-Dibromo-3-Chloropropane	ND		12		ug/Kg	☼	01/29/16 19:09	01/30/16 01:08	1
Ethylene Dibromide	ND		6.0		ug/Kg	☼	01/29/16 19:09	01/30/16 01:08	1
Dibromomethane	ND		12		ug/Kg	☼	01/29/16 19:09	01/30/16 01:08	1
Dichlorodifluoromethane	ND		12		ug/Kg	☼	01/29/16 19:09	01/30/16 01:08	1
1,1-Dichloroethane	ND		6.0		ug/Kg	☼	01/29/16 19:09	01/30/16 01:08	1
1,2-Dichloroethane	ND		6.0		ug/Kg	☼	01/29/16 19:09	01/30/16 01:08	1
1,1-Dichloroethene	ND		6.0		ug/Kg	☼	01/29/16 19:09	01/30/16 01:08	1
cis-1,2-Dichloroethene	ND		6.0		ug/Kg	☼	01/29/16 19:09	01/30/16 01:08	1
trans-1,2-Dichloroethene	ND		6.0		ug/Kg	☼	01/29/16 19:09	01/30/16 01:08	1
1,2-Dichloropropane	ND		6.0		ug/Kg	☼	01/29/16 19:09	01/30/16 01:08	1
cis-1,3-Dichloropropene	ND		6.0		ug/Kg	☼	01/29/16 19:09	01/30/16 01:08	1
trans-1,3-Dichloropropene	ND		6.0		ug/Kg	☼	01/29/16 19:09	01/30/16 01:08	1
Ethylbenzene	ND		6.0		ug/Kg	☼	01/29/16 19:09	01/30/16 01:08	1
Hexachlorobutadiene	ND		6.0		ug/Kg	☼	01/29/16 19:09	01/30/16 01:08	1
2-Hexanone	ND		60		ug/Kg	☼	01/29/16 19:09	01/30/16 01:08	1
Isopropylbenzene	ND		6.0		ug/Kg	☼	01/29/16 19:09	01/30/16 01:08	1
4-Isopropyltoluene	ND		6.0		ug/Kg	☼	01/29/16 19:09	01/30/16 01:08	1
Methylene Chloride	ND		12		ug/Kg	☼	01/29/16 19:09	01/30/16 01:08	1
4-Methyl-2-pentanone (MIBK)	ND		60		ug/Kg	☼	01/29/16 19:09	01/30/16 01:08	1
Naphthalene	ND		12		ug/Kg	☼	01/29/16 19:09	01/30/16 01:08	1
N-Propylbenzene	ND		6.0		ug/Kg	☼	01/29/16 19:09	01/30/16 01:08	1
Styrene	ND		6.0		ug/Kg	☼	01/29/16 19:09	01/30/16 01:08	1
1,1,1,2-Tetrachloroethane	ND		6.0		ug/Kg	☼	01/29/16 19:09	01/30/16 01:08	1

TestAmerica Pleasanton



# Client Sample Results

Client: Geologica Inc  
Project/Site: Pin High

TestAmerica Job ID: 720-69933-1

**Client Sample ID: GP-11-3.5-4'**

**Lab Sample ID: 720-69933-47**

**Date Collected: 01/22/16 12:00**

**Matrix: Solid**

**Date Received: 01/22/16 17:10**

**Percent Solids: 79.5**

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		6.0		ug/Kg	☼	01/29/16 19:09	01/30/16 01:08	1
Tetrachloroethene	ND		6.0		ug/Kg	☼	01/29/16 19:09	01/30/16 01:08	1
Toluene	ND		6.0		ug/Kg	☼	01/29/16 19:09	01/30/16 01:08	1
1,2,3-Trichlorobenzene	ND		6.0		ug/Kg	☼	01/29/16 19:09	01/30/16 01:08	1
1,2,4-Trichlorobenzene	ND		6.0		ug/Kg	☼	01/29/16 19:09	01/30/16 01:08	1
1,1,1-Trichloroethane	ND		6.0		ug/Kg	☼	01/29/16 19:09	01/30/16 01:08	1
1,1,2-Trichloroethane	ND		6.0		ug/Kg	☼	01/29/16 19:09	01/30/16 01:08	1
Trichloroethene	ND		6.0		ug/Kg	☼	01/29/16 19:09	01/30/16 01:08	1
Trichlorofluoromethane	ND		6.0		ug/Kg	☼	01/29/16 19:09	01/30/16 01:08	1
1,2,3-Trichloropropane	ND		6.0		ug/Kg	☼	01/29/16 19:09	01/30/16 01:08	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		6.0		ug/Kg	☼	01/29/16 19:09	01/30/16 01:08	1
1,2,4-Trimethylbenzene	ND		6.0		ug/Kg	☼	01/29/16 19:09	01/30/16 01:08	1
1,3,5-Trimethylbenzene	ND		6.0		ug/Kg	☼	01/29/16 19:09	01/30/16 01:08	1
Vinyl acetate	ND		24		ug/Kg	☼	01/29/16 19:09	01/30/16 01:08	1
Vinyl chloride	ND		6.0		ug/Kg	☼	01/29/16 19:09	01/30/16 01:08	1
Xylenes, Total	ND		12		ug/Kg	☼	01/29/16 19:09	01/30/16 01:08	1
2,2-Dichloropropane	ND		6.0		ug/Kg	☼	01/29/16 19:09	01/30/16 01:08	1
Gasoline Range Organics (GRO) -C5-C12	ND		300		ug/Kg	☼	01/29/16 19:09	01/30/16 01:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	87		45 - 131	01/29/16 19:09	01/30/16 01:08	1
1,2-Dichloroethane-d4 (Surr)	114		60 - 140	01/29/16 19:09	01/30/16 01:08	1
Toluene-d8 (Surr)	99		58 - 140	01/29/16 19:09	01/30/16 01:08	1

## Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	90		3.7		mg/Kg	☼	01/27/16 21:05	01/29/16 02:35	3
Motor Oil Range Organics [C24-C36]	300		190		mg/Kg	☼	01/27/16 21:05	01/29/16 02:35	3

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Capric Acid (Surr)	0.3		0 - 1	01/27/16 21:05	01/29/16 02:35	3
p-Terphenyl	71		38 - 148	01/27/16 21:05	01/29/16 02:35	3

## Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND	F1 F2	2.4		mg/Kg	☼	01/26/16 14:58	01/28/16 18:42	4
Arsenic	7.8		4.7		mg/Kg	☼	01/26/16 14:58	01/28/16 18:42	4
Barium	140	F1 F2	2.4		mg/Kg	☼	01/26/16 14:58	01/28/16 18:42	4
Beryllium	ND		0.47		mg/Kg	☼	01/26/16 14:58	01/28/16 18:42	4
Cadmium	ND		0.59		mg/Kg	☼	01/26/16 14:58	01/28/16 18:42	4
Chromium	480		2.4		mg/Kg	☼	01/26/16 14:58	01/28/16 18:42	4
Cobalt	64		0.94		mg/Kg	☼	01/26/16 14:58	01/28/16 18:42	4
Copper	35		7.1		mg/Kg	☼	01/26/16 14:58	01/28/16 18:42	4
Lead	44	F1	2.4		mg/Kg	☼	01/26/16 14:58	01/28/16 18:42	4
Molybdenum	ND		2.4		mg/Kg	☼	01/26/16 14:58	01/28/16 18:42	4
Nickel	1100		2.4		mg/Kg	☼	01/26/16 14:58	01/28/16 18:42	4
Selenium	ND		4.7		mg/Kg	☼	01/26/16 14:58	01/28/16 18:42	4
Silver	ND		1.2		mg/Kg	☼	01/26/16 14:58	01/28/16 18:42	4
Thallium	ND		2.4		mg/Kg	☼	01/26/16 14:58	01/28/16 18:42	4

TestAmerica Pleasanton

# Client Sample Results

Client: Geologica Inc  
Project/Site: Pin High

TestAmerica Job ID: 720-69933-1

**Client Sample ID: GP-11-3.5-4'**

**Lab Sample ID: 720-69933-47**

Date Collected: 01/22/16 12:00

Matrix: Solid

Date Received: 01/22/16 17:10

Percent Solids: 79.5

**Method: 6010B - Metals (ICP) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vanadium	39		2.4		mg/Kg	☼	01/26/16 14:58	01/28/16 18:42	4
Zinc	68	F1	7.1		mg/Kg	☼	01/26/16 14:58	01/28/16 18:42	4

**Method: 7471A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.10		0.011		mg/Kg	☼	01/26/16 18:10	01/27/16 19:57	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	20		0.10		%	-		01/27/16 09:39	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

# Client Sample Results

Client: Geologica Inc  
Project/Site: Pin High

TestAmerica Job ID: 720-69933-1

**Client Sample ID: GP-11-7.5-8'**

**Lab Sample ID: 720-69933-48**

**Date Collected: 01/22/16 12:02**

**Matrix: Solid**

**Date Received: 01/22/16 17:10**

**Percent Solids: 79.5**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		6.2		ug/Kg	☼	01/29/16 19:09	01/30/16 01:39	1
Acetone	ND		62		ug/Kg	☼	01/29/16 19:09	01/30/16 01:39	1
Benzene	ND		6.2		ug/Kg	☼	01/29/16 19:09	01/30/16 01:39	1
Dichlorobromomethane	ND		6.2		ug/Kg	☼	01/29/16 19:09	01/30/16 01:39	1
Bromobenzene	ND		6.2		ug/Kg	☼	01/29/16 19:09	01/30/16 01:39	1
Chlorobromomethane	ND		25		ug/Kg	☼	01/29/16 19:09	01/30/16 01:39	1
Bromoform	ND		6.2		ug/Kg	☼	01/29/16 19:09	01/30/16 01:39	1
Bromomethane	ND		12		ug/Kg	☼	01/29/16 19:09	01/30/16 01:39	1
2-Butanone (MEK)	ND		62		ug/Kg	☼	01/29/16 19:09	01/30/16 01:39	1
n-Butylbenzene	ND		6.2		ug/Kg	☼	01/29/16 19:09	01/30/16 01:39	1
sec-Butylbenzene	ND		6.2		ug/Kg	☼	01/29/16 19:09	01/30/16 01:39	1
tert-Butylbenzene	ND		6.2		ug/Kg	☼	01/29/16 19:09	01/30/16 01:39	1
Carbon disulfide	ND		6.2		ug/Kg	☼	01/29/16 19:09	01/30/16 01:39	1
Carbon tetrachloride	ND		6.2		ug/Kg	☼	01/29/16 19:09	01/30/16 01:39	1
Chlorobenzene	ND		6.2		ug/Kg	☼	01/29/16 19:09	01/30/16 01:39	1
Chloroethane	ND		12		ug/Kg	☼	01/29/16 19:09	01/30/16 01:39	1
Chloroform	ND		6.2		ug/Kg	☼	01/29/16 19:09	01/30/16 01:39	1
Chloromethane	ND		12		ug/Kg	☼	01/29/16 19:09	01/30/16 01:39	1
2-Chlorotoluene	ND		6.2		ug/Kg	☼	01/29/16 19:09	01/30/16 01:39	1
4-Chlorotoluene	ND		6.2		ug/Kg	☼	01/29/16 19:09	01/30/16 01:39	1
Chlorodibromomethane	ND		6.2		ug/Kg	☼	01/29/16 19:09	01/30/16 01:39	1
1,2-Dichlorobenzene	ND		6.2		ug/Kg	☼	01/29/16 19:09	01/30/16 01:39	1
1,3-Dichlorobenzene	ND		6.2		ug/Kg	☼	01/29/16 19:09	01/30/16 01:39	1
1,4-Dichlorobenzene	ND		6.2		ug/Kg	☼	01/29/16 19:09	01/30/16 01:39	1
1,3-Dichloropropane	ND		6.2		ug/Kg	☼	01/29/16 19:09	01/30/16 01:39	1
1,1-Dichloropropane	ND		6.2		ug/Kg	☼	01/29/16 19:09	01/30/16 01:39	1
1,2-Dibromo-3-Chloropropane	ND		12		ug/Kg	☼	01/29/16 19:09	01/30/16 01:39	1
Ethylene Dibromide	ND		6.2		ug/Kg	☼	01/29/16 19:09	01/30/16 01:39	1
Dibromomethane	ND		12		ug/Kg	☼	01/29/16 19:09	01/30/16 01:39	1
Dichlorodifluoromethane	ND		12		ug/Kg	☼	01/29/16 19:09	01/30/16 01:39	1
1,1-Dichloroethane	ND		6.2		ug/Kg	☼	01/29/16 19:09	01/30/16 01:39	1
1,2-Dichloroethane	ND		6.2		ug/Kg	☼	01/29/16 19:09	01/30/16 01:39	1
1,1-Dichloroethene	ND		6.2		ug/Kg	☼	01/29/16 19:09	01/30/16 01:39	1
cis-1,2-Dichloroethene	ND		6.2		ug/Kg	☼	01/29/16 19:09	01/30/16 01:39	1
trans-1,2-Dichloroethene	ND		6.2		ug/Kg	☼	01/29/16 19:09	01/30/16 01:39	1
1,2-Dichloropropane	ND		6.2		ug/Kg	☼	01/29/16 19:09	01/30/16 01:39	1
cis-1,3-Dichloropropene	ND		6.2		ug/Kg	☼	01/29/16 19:09	01/30/16 01:39	1
trans-1,3-Dichloropropene	ND		6.2		ug/Kg	☼	01/29/16 19:09	01/30/16 01:39	1
Ethylbenzene	ND		6.2		ug/Kg	☼	01/29/16 19:09	01/30/16 01:39	1
Hexachlorobutadiene	ND		6.2		ug/Kg	☼	01/29/16 19:09	01/30/16 01:39	1
2-Hexanone	ND		62		ug/Kg	☼	01/29/16 19:09	01/30/16 01:39	1
Isopropylbenzene	ND		6.2		ug/Kg	☼	01/29/16 19:09	01/30/16 01:39	1
4-Isopropyltoluene	ND		6.2		ug/Kg	☼	01/29/16 19:09	01/30/16 01:39	1
Methylene Chloride	ND		12		ug/Kg	☼	01/29/16 19:09	01/30/16 01:39	1
4-Methyl-2-pentanone (MIBK)	ND		62		ug/Kg	☼	01/29/16 19:09	01/30/16 01:39	1
Naphthalene	ND		12		ug/Kg	☼	01/29/16 19:09	01/30/16 01:39	1
N-Propylbenzene	ND		6.2		ug/Kg	☼	01/29/16 19:09	01/30/16 01:39	1
Styrene	ND		6.2		ug/Kg	☼	01/29/16 19:09	01/30/16 01:39	1
1,1,1,2-Tetrachloroethane	ND		6.2		ug/Kg	☼	01/29/16 19:09	01/30/16 01:39	1

TestAmerica Pleasanton

# Client Sample Results

Client: Geologica Inc  
Project/Site: Pin High

TestAmerica Job ID: 720-69933-1

**Client Sample ID: GP-11-7.5-8'**

**Lab Sample ID: 720-69933-48**

**Date Collected: 01/22/16 12:02**

**Matrix: Solid**

**Date Received: 01/22/16 17:10**

**Percent Solids: 79.5**

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		6.2		ug/Kg	☼	01/29/16 19:09	01/30/16 01:39	1
Tetrachloroethene	ND		6.2		ug/Kg	☼	01/29/16 19:09	01/30/16 01:39	1
Toluene	ND		6.2		ug/Kg	☼	01/29/16 19:09	01/30/16 01:39	1
1,2,3-Trichlorobenzene	ND		6.2		ug/Kg	☼	01/29/16 19:09	01/30/16 01:39	1
1,2,4-Trichlorobenzene	ND		6.2		ug/Kg	☼	01/29/16 19:09	01/30/16 01:39	1
1,1,1-Trichloroethane	ND		6.2		ug/Kg	☼	01/29/16 19:09	01/30/16 01:39	1
1,1,2-Trichloroethane	ND		6.2		ug/Kg	☼	01/29/16 19:09	01/30/16 01:39	1
Trichloroethene	ND		6.2		ug/Kg	☼	01/29/16 19:09	01/30/16 01:39	1
Trichlorofluoromethane	ND		6.2		ug/Kg	☼	01/29/16 19:09	01/30/16 01:39	1
1,2,3-Trichloropropane	ND		6.2		ug/Kg	☼	01/29/16 19:09	01/30/16 01:39	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		6.2		ug/Kg	☼	01/29/16 19:09	01/30/16 01:39	1
1,2,4-Trimethylbenzene	ND		6.2		ug/Kg	☼	01/29/16 19:09	01/30/16 01:39	1
1,3,5-Trimethylbenzene	ND		6.2		ug/Kg	☼	01/29/16 19:09	01/30/16 01:39	1
Vinyl acetate	ND		25		ug/Kg	☼	01/29/16 19:09	01/30/16 01:39	1
Vinyl chloride	ND		6.2		ug/Kg	☼	01/29/16 19:09	01/30/16 01:39	1
Xylenes, Total	ND		12		ug/Kg	☼	01/29/16 19:09	01/30/16 01:39	1
2,2-Dichloropropane	ND		6.2		ug/Kg	☼	01/29/16 19:09	01/30/16 01:39	1
Gasoline Range Organics (GRO) -C5-C12	ND		310		ug/Kg	☼	01/29/16 19:09	01/30/16 01:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	82		45 - 131	01/29/16 19:09	01/30/16 01:39	1
1,2-Dichloroethane-d4 (Surr)	120		60 - 140	01/29/16 19:09	01/30/16 01:39	1
Toluene-d8 (Surr)	94		58 - 140	01/29/16 19:09	01/30/16 01:39	1

## Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Diesel Range Organics [C10-C28]</b>	<b>17</b>		1.2		mg/Kg	☼	01/27/16 21:05	01/29/16 00:08	1
Motor Oil Range Organics [C24-C36]	ND		62		mg/Kg	☼	01/27/16 21:05	01/29/16 00:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Capric Acid (Surr)	0.01		0 - 1	01/27/16 21:05	01/29/16 00:08	1
p-Terphenyl	45		38 - 148	01/27/16 21:05	01/29/16 00:08	1

## Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		2.2		mg/Kg	☼	01/26/16 14:58	01/28/16 18:46	4
<b>Arsenic</b>	<b>9.4</b>		4.3		mg/Kg	☼	01/26/16 14:58	01/28/16 18:46	4
<b>Barium</b>	<b>210</b>		2.2		mg/Kg	☼	01/26/16 14:58	01/28/16 18:46	4
<b>Beryllium</b>	<b>0.60</b>		0.43		mg/Kg	☼	01/26/16 14:58	01/28/16 18:46	4
Cadmium	ND		0.54		mg/Kg	☼	01/26/16 14:58	01/28/16 18:46	4
<b>Chromium</b>	<b>74</b>		2.2		mg/Kg	☼	01/26/16 14:58	01/28/16 18:46	4
<b>Cobalt</b>	<b>17</b>		0.86		mg/Kg	☼	01/26/16 14:58	01/28/16 18:46	4
<b>Copper</b>	<b>41</b>		6.5		mg/Kg	☼	01/26/16 14:58	01/28/16 18:46	4
<b>Lead</b>	<b>11</b>		2.2		mg/Kg	☼	01/26/16 14:58	01/28/16 18:46	4
Molybdenum	ND		2.2		mg/Kg	☼	01/26/16 14:58	01/28/16 18:46	4
<b>Nickel</b>	<b>100</b>		2.2		mg/Kg	☼	01/26/16 14:58	01/28/16 18:46	4
Selenium	ND		4.3		mg/Kg	☼	01/26/16 14:58	01/28/16 18:46	4
Silver	ND		1.1		mg/Kg	☼	01/26/16 14:58	01/28/16 18:46	4
Thallium	ND		2.2		mg/Kg	☼	01/26/16 14:58	01/28/16 18:46	4
<b>Vanadium</b>	<b>55</b>		2.2		mg/Kg	☼	01/26/16 14:58	01/28/16 18:46	4

TestAmerica Pleasanton

# Client Sample Results

Client: Geologica Inc  
Project/Site: Pin High

TestAmerica Job ID: 720-69933-1

**Client Sample ID: GP-11-7.5-8'**

**Lab Sample ID: 720-69933-48**

Date Collected: 01/22/16 12:02

Matrix: Solid

Date Received: 01/22/16 17:10

Percent Solids: 79.5

**Method: 6010B - Metals (ICP) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	82		6.5		mg/Kg	☼	01/26/16 14:58	01/28/16 18:46	4

**Method: 7471A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.12		0.011		mg/Kg	☼	01/26/16 18:10	01/27/16 20:00	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	21		0.10		%			01/27/16 12:04	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

# QC Sample Results

Client: Geologica Inc  
Project/Site: Pin High

TestAmerica Job ID: 720-69933-1

## Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 720-196192/4

Matrix: Water

Analysis Batch: 196192

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50		ug/L			01/25/16 19:20	1
Acetone	ND		50		ug/L			01/25/16 19:20	1
Benzene	ND		0.50		ug/L			01/25/16 19:20	1
Dichlorobromomethane	ND		0.50		ug/L			01/25/16 19:20	1
Bromobenzene	ND		1.0		ug/L			01/25/16 19:20	1
Chlorobromomethane	ND		1.0		ug/L			01/25/16 19:20	1
Bromoform	ND		1.0		ug/L			01/25/16 19:20	1
Bromomethane	ND		1.0		ug/L			01/25/16 19:20	1
2-Butanone (MEK)	ND		50		ug/L			01/25/16 19:20	1
n-Butylbenzene	ND		1.0		ug/L			01/25/16 19:20	1
sec-Butylbenzene	ND		1.0		ug/L			01/25/16 19:20	1
tert-Butylbenzene	ND		1.0		ug/L			01/25/16 19:20	1
Carbon disulfide	ND		5.0		ug/L			01/25/16 19:20	1
Carbon tetrachloride	ND		0.50		ug/L			01/25/16 19:20	1
Chlorobenzene	ND		0.50		ug/L			01/25/16 19:20	1
Chloroethane	ND		1.0		ug/L			01/25/16 19:20	1
Chloroform	ND		1.0		ug/L			01/25/16 19:20	1
Chloromethane	ND		1.0		ug/L			01/25/16 19:20	1
2-Chlorotoluene	ND		0.50		ug/L			01/25/16 19:20	1
4-Chlorotoluene	ND		0.50		ug/L			01/25/16 19:20	1
Chlorodibromomethane	ND		0.50		ug/L			01/25/16 19:20	1
1,2-Dichlorobenzene	ND		0.50		ug/L			01/25/16 19:20	1
1,3-Dichlorobenzene	ND		0.50		ug/L			01/25/16 19:20	1
1,4-Dichlorobenzene	ND		0.50		ug/L			01/25/16 19:20	1
1,3-Dichloropropane	ND		1.0		ug/L			01/25/16 19:20	1
1,1-Dichloropropene	ND		0.50		ug/L			01/25/16 19:20	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			01/25/16 19:20	1
Ethylene Dibromide	ND		0.50		ug/L			01/25/16 19:20	1
Dibromomethane	ND		0.50		ug/L			01/25/16 19:20	1
Dichlorodifluoromethane	ND		0.50		ug/L			01/25/16 19:20	1
1,1-Dichloroethane	ND		0.50		ug/L			01/25/16 19:20	1
1,2-Dichloroethane	ND		0.50		ug/L			01/25/16 19:20	1
1,1-Dichloroethene	ND		0.50		ug/L			01/25/16 19:20	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			01/25/16 19:20	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			01/25/16 19:20	1
1,2-Dichloropropane	ND		0.50		ug/L			01/25/16 19:20	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			01/25/16 19:20	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			01/25/16 19:20	1
Ethylbenzene	ND		0.50		ug/L			01/25/16 19:20	1
Hexachlorobutadiene	ND		1.0		ug/L			01/25/16 19:20	1
2-Hexanone	ND		50		ug/L			01/25/16 19:20	1
Isopropylbenzene	ND		0.50		ug/L			01/25/16 19:20	1
4-Isopropyltoluene	ND		1.0		ug/L			01/25/16 19:20	1
Methylene Chloride	ND		5.0		ug/L			01/25/16 19:20	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			01/25/16 19:20	1
Naphthalene	ND		1.0		ug/L			01/25/16 19:20	1
N-Propylbenzene	ND		1.0		ug/L			01/25/16 19:20	1
Styrene	ND		0.50		ug/L			01/25/16 19:20	1

TestAmerica Pleasanton

# QC Sample Results

Client: Geologica Inc  
Project/Site: Pin High

TestAmerica Job ID: 720-69933-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 720-196192/4**  
**Matrix: Water**  
**Analysis Batch: 196192**

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			01/25/16 19:20	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			01/25/16 19:20	1
Tetrachloroethene	ND		0.50		ug/L			01/25/16 19:20	1
Toluene	ND		0.50		ug/L			01/25/16 19:20	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			01/25/16 19:20	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			01/25/16 19:20	1
1,1,1-Trichloroethane	ND		0.50		ug/L			01/25/16 19:20	1
1,1,2-Trichloroethane	ND		0.50		ug/L			01/25/16 19:20	1
Trichloroethene	ND		0.50		ug/L			01/25/16 19:20	1
Trichlorofluoromethane	ND		1.0		ug/L			01/25/16 19:20	1
1,2,3-Trichloropropane	ND		0.50		ug/L			01/25/16 19:20	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			01/25/16 19:20	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			01/25/16 19:20	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			01/25/16 19:20	1
Vinyl acetate	ND		10		ug/L			01/25/16 19:20	1
Vinyl chloride	ND		0.50		ug/L			01/25/16 19:20	1
Xylenes, Total	ND		1.0		ug/L			01/25/16 19:20	1
2,2-Dichloropropane	ND		0.50		ug/L			01/25/16 19:20	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	101		67 - 130		01/25/16 19:20	1
1,2-Dichloroethane-d4 (Surr)	114		72 - 130		01/25/16 19:20	1
Toluene-d8 (Surr)	99		70 - 130		01/25/16 19:20	1

**Lab Sample ID: LCS 720-196192/5**  
**Matrix: Water**  
**Analysis Batch: 196192**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methyl tert-butyl ether	25.0	26.5		ug/L		106	62 - 130
Acetone	100	94.6		ug/L		95	26 - 180
Benzene	25.0	22.5		ug/L		90	79 - 130
Dichlorobromomethane	25.0	26.9		ug/L		108	70 - 130
Bromobenzene	25.0	24.1		ug/L		96	70 - 130
Chlorobromomethane	25.0	26.8		ug/L		107	70 - 130
Bromoform	25.0	29.8		ug/L		119	68 - 136
Bromomethane	25.0	31.2		ug/L		125	43 - 151
2-Butanone (MEK)	100	118		ug/L		118	54 - 130
n-Butylbenzene	25.0	21.0		ug/L		84	70 - 142
sec-Butylbenzene	25.0	22.1		ug/L		88	70 - 134
tert-Butylbenzene	25.0	23.1		ug/L		92	70 - 135
Carbon disulfide	25.0	22.8		ug/L		91	58 - 130
Carbon tetrachloride	25.0	30.0		ug/L		120	70 - 146
Chlorobenzene	25.0	24.6		ug/L		99	70 - 130
Chloroethane	25.0	24.3		ug/L		97	62 - 138
Chloroform	25.0	25.8		ug/L		103	70 - 130
Chloromethane	25.0	24.1		ug/L		96	52 - 175
2-Chlorotoluene	25.0	22.8		ug/L		91	70 - 130

TestAmerica Pleasanton



# QC Sample Results

Client: Geologica Inc  
Project/Site: Pin High

TestAmerica Job ID: 720-69933-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 720-196192/5**

**Matrix: Water**

**Analysis Batch: 196192**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Chlorotoluene	25.0	22.4		ug/L		90	70 - 130
Chlorodibromomethane	25.0	28.1		ug/L		113	70 - 145
1,2-Dichlorobenzene	25.0	24.1		ug/L		96	70 - 130
1,3-Dichlorobenzene	25.0	23.8		ug/L		95	70 - 130
1,4-Dichlorobenzene	25.0	23.9		ug/L		95	70 - 130
1,3-Dichloropropane	25.0	23.8		ug/L		95	70 - 130
1,1-Dichloropropene	25.0	25.0		ug/L		100	70 - 130
1,2-Dibromo-3-Chloropropane	25.0	26.0		ug/L		104	70 - 136
Ethylene Dibromide	25.0	25.3		ug/L		101	70 - 130
Dibromomethane	25.0	26.3		ug/L		105	70 - 130
Dichlorodifluoromethane	25.0	37.0	*	ug/L		148	34 - 132
1,1-Dichloroethane	25.0	22.9		ug/L		92	70 - 130
1,2-Dichloroethane	25.0	27.9		ug/L		112	61 - 132
1,1-Dichloroethene	25.0	22.6		ug/L		91	64 - 128
cis-1,2-Dichloroethene	25.0	23.8		ug/L		95	70 - 130
trans-1,2-Dichloroethene	25.0	23.8		ug/L		95	68 - 130
1,2-Dichloropropane	25.0	21.6		ug/L		86	70 - 130
cis-1,3-Dichloropropene	25.0	25.5		ug/L		102	70 - 130
trans-1,3-Dichloropropene	25.0	27.5		ug/L		110	70 - 140
Ethylbenzene	25.0	21.8		ug/L		87	80 - 120
Hexachlorobutadiene	25.0	25.8		ug/L		103	70 - 130
2-Hexanone	100	100		ug/L		100	60 - 164
Isopropylbenzene	25.0	23.6		ug/L		95	70 - 130
4-Isopropyltoluene	25.0	22.4		ug/L		90	70 - 130
Methylene Chloride	25.0	22.8		ug/L		91	70 - 147
4-Methyl-2-pentanone (MIBK)	100	102		ug/L		102	58 - 130
Naphthalene	25.0	23.0		ug/L		92	70 - 130
N-Propylbenzene	25.0	22.7		ug/L		91	70 - 130
Styrene	25.0	22.4		ug/L		90	70 - 130
1,1,1,2-Tetrachloroethane	25.0	25.9		ug/L		104	70 - 130
1,1,1,2,2-Tetrachloroethane	25.0	21.7		ug/L		87	70 - 130
Tetrachloroethene	25.0	25.7		ug/L		103	70 - 130
Toluene	25.0	22.1		ug/L		88	78 - 120
1,2,3-Trichlorobenzene	25.0	24.8		ug/L		99	70 - 130
1,2,4-Trichlorobenzene	25.0	25.0		ug/L		100	70 - 130
1,1,1-Trichloroethane	25.0	28.7		ug/L		115	70 - 130
1,1,2-Trichloroethane	25.0	23.2		ug/L		93	70 - 130
Trichloroethene	25.0	26.4		ug/L		106	70 - 130
Trichlorofluoromethane	25.0	34.0	*	ug/L		136	66 - 132
1,2,3-Trichloropropane	25.0	24.7		ug/L		99	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	28.6		ug/L		114	42 - 162
1,2,4-Trimethylbenzene	25.0	23.5		ug/L		94	70 - 132
1,3,5-Trimethylbenzene	25.0	22.1		ug/L		88	70 - 130
Vinyl acetate	25.0	21.0		ug/L		84	43 - 163
Vinyl chloride	25.0	27.9		ug/L		112	54 - 135
m-Xylene & p-Xylene	25.0	24.7		ug/L		99	70 - 142
o-Xylene	25.0	24.9		ug/L		100	70 - 130

TestAmerica Pleasanton

# QC Sample Results

Client: Geologica Inc  
Project/Site: Pin High

TestAmerica Job ID: 720-69933-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 720-196192/5**  
**Matrix: Water**  
**Analysis Batch: 196192**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2,2-Dichloropropane	25.0	26.9		ug/L		108	70 - 140

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene	104		67 - 130
1,2-Dichloroethane-d4 (Surr)	115		72 - 130
Toluene-d8 (Surr)	99		70 - 130

**Lab Sample ID: LCSD 720-196192/6**  
**Matrix: Water**  
**Analysis Batch: 196192**

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Methyl tert-butyl ether	25.0	26.6		ug/L		107	62 - 130	1	20
Acetone	100	97.5		ug/L		97	26 - 180	3	30
Benzene	25.0	22.5		ug/L		90	79 - 130	0	20
Dichlorobromomethane	25.0	26.5		ug/L		106	70 - 130	2	20
Bromobenzene	25.0	24.7		ug/L		99	70 - 130	3	20
Chlorobromomethane	25.0	26.2		ug/L		105	70 - 130	2	20
Bromoform	25.0	29.6		ug/L		118	68 - 136	1	20
Bromomethane	25.0	29.1		ug/L		116	43 - 151	7	20
2-Butanone (MEK)	100	118		ug/L		118	54 - 130	0	20
n-Butylbenzene	25.0	20.7		ug/L		83	70 - 142	1	20
sec-Butylbenzene	25.0	22.5		ug/L		90	70 - 134	2	20
tert-Butylbenzene	25.0	23.5		ug/L		94	70 - 135	2	20
Carbon disulfide	25.0	22.5		ug/L		90	58 - 130	1	20
Carbon tetrachloride	25.0	29.7		ug/L		119	70 - 146	1	20
Chlorobenzene	25.0	24.4		ug/L		97	70 - 130	1	20
Chloroethane	25.0	24.3		ug/L		97	62 - 138	0	20
Chloroform	25.0	25.7		ug/L		103	70 - 130	0	20
Chloromethane	25.0	22.7		ug/L		91	52 - 175	6	20
2-Chlorotoluene	25.0	23.6		ug/L		94	70 - 130	3	20
4-Chlorotoluene	25.0	23.0		ug/L		92	70 - 130	3	20
Chlorodibromomethane	25.0	28.0		ug/L		112	70 - 145	0	20
1,2-Dichlorobenzene	25.0	23.9		ug/L		95	70 - 130	1	20
1,3-Dichlorobenzene	25.0	23.7		ug/L		95	70 - 130	1	20
1,4-Dichlorobenzene	25.0	23.9		ug/L		96	70 - 130	0	20
1,3-Dichloropropane	25.0	23.6		ug/L		94	70 - 130	1	20
1,1-Dichloropropene	25.0	24.6		ug/L		98	70 - 130	2	20
1,2-Dibromo-3-Chloropropane	25.0	26.0		ug/L		104	70 - 136	0	20
Ethylene Dibromide	25.0	25.3		ug/L		101	70 - 130	0	20
Dibromomethane	25.0	25.7		ug/L		103	70 - 130	2	20
Dichlorodifluoromethane	25.0	34.3	*	ug/L		137	34 - 132	8	20
1,1-Dichloroethane	25.0	22.8		ug/L		91	70 - 130	0	20
1,2-Dichloroethane	25.0	27.4		ug/L		109	61 - 132	2	20
1,1-Dichloroethene	25.0	21.9		ug/L		87	64 - 128	3	20
cis-1,2-Dichloroethene	25.0	23.6		ug/L		94	70 - 130	1	20
trans-1,2-Dichloroethene	25.0	24.0		ug/L		96	68 - 130	1	20
1,2-Dichloropropane	25.0	21.3		ug/L		85	70 - 130	1	20

TestAmerica Pleasanton

# QC Sample Results

Client: Geologica Inc  
Project/Site: Pin High

TestAmerica Job ID: 720-69933-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCSD 720-196192/6**

**Matrix: Water**

**Analysis Batch: 196192**

**Client Sample ID: Lab Control Sample Dup**

**Prep Type: Total/NA**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
cis-1,3-Dichloropropene	25.0	25.1		ug/L		101	70 - 130	2	20
trans-1,3-Dichloropropene	25.0	27.2		ug/L		109	70 - 140	1	20
Ethylbenzene	25.0	21.6		ug/L		86	80 - 120	1	20
Hexachlorobutadiene	25.0	24.9		ug/L		100	70 - 130	4	20
2-Hexanone	100	100		ug/L		100	60 - 164	0	20
Isopropylbenzene	25.0	23.1		ug/L		92	70 - 130	2	20
4-Isopropyltoluene	25.0	22.4		ug/L		90	70 - 130	0	20
Methylene Chloride	25.0	22.7		ug/L		91	70 - 147	1	20
4-Methyl-2-pentanone (MIBK)	100	102		ug/L		102	58 - 130	0	20
Naphthalene	25.0	22.7		ug/L		91	70 - 130	1	20
N-Propylbenzene	25.0	23.3		ug/L		93	70 - 130	3	20
Styrene	25.0	22.0		ug/L		88	70 - 130	2	20
1,1,1,2-Tetrachloroethane	25.0	25.6		ug/L		102	70 - 130	1	20
1,1,2,2-Tetrachloroethane	25.0	21.7		ug/L		87	70 - 130	0	20
Tetrachloroethene	25.0	25.5		ug/L		102	70 - 130	1	20
Toluene	25.0	22.1		ug/L		88	78 - 120	0	20
1,2,3-Trichlorobenzene	25.0	24.0		ug/L		96	70 - 130	3	20
1,2,4-Trichlorobenzene	25.0	23.7		ug/L		95	70 - 130	5	20
1,1,1-Trichloroethane	25.0	28.4		ug/L		113	70 - 130	1	20
1,1,2-Trichloroethane	25.0	22.9		ug/L		92	70 - 130	1	20
Trichloroethene	25.0	26.2		ug/L		105	70 - 130	1	20
Trichlorofluoromethane	25.0	32.0		ug/L		128	66 - 132	6	20
1,2,3-Trichloropropane	25.0	25.9		ug/L		104	70 - 130	5	20
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	26.7		ug/L		107	42 - 162	7	20
1,2,4-Trimethylbenzene	25.0	23.7		ug/L		95	70 - 132	1	20
1,3,5-Trimethylbenzene	25.0	22.4		ug/L		90	70 - 130	2	20
Vinyl acetate	25.0	20.3		ug/L		81	43 - 163	3	20
Vinyl chloride	25.0	26.6		ug/L		107	54 - 135	5	20
m-Xylene & p-Xylene	25.0	24.2		ug/L		97	70 - 142	2	20
o-Xylene	25.0	24.5		ug/L		98	70 - 130	2	20
2,2-Dichloropropane	25.0	29.1		ug/L		116	70 - 140	8	20

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
4-Bromofluorobenzene	100		67 - 130
1,2-Dichloroethane-d4 (Surr)	111		72 - 130
Toluene-d8 (Surr)	99		70 - 130

**Lab Sample ID: 720-69933-12 MS**

**Matrix: Solid**

**Analysis Batch: 196326**

**Client Sample ID: GP-2-3.5-4'**

**Prep Type: Total/NA**

**Prep Batch: 196202**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Methyl tert-butyl ether	ND		66.3	72.2		ug/Kg	☼	109	69 - 130
Acetone	ND		265	323		ug/Kg	☼	122	37 - 150
Benzene	ND		66.3	73.0		ug/Kg	☼	110	70 - 130
Dichlorobromomethane	ND		66.3	67.7		ug/Kg	☼	102	64 - 135
Bromobenzene	ND		66.3	82.6		ug/Kg	☼	125	70 - 130

TestAmerica Pleasanton

# QC Sample Results

Client: Geologica Inc  
Project/Site: Pin High

TestAmerica Job ID: 720-69933-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: 720-69933-12 MS**

**Matrix: Solid**

**Analysis Batch: 196326**

**Client Sample ID: GP-2-3.5-4'**

**Prep Type: Total/NA**

**Prep Batch: 196202**

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	Limits
	Result	Qualifier	Added	Result	Qualifier				
Chlorobromomethane	ND		66.3	70.1		ug/Kg	☼	106	65 - 130
Bromoform	ND		66.3	71.5		ug/Kg	☼	108	58 - 132
Bromomethane	ND		66.3	65.7		ug/Kg	☼	99	56 - 130
2-Butanone (MEK)	ND		265	269		ug/Kg	☼	102	41 - 150
n-Butylbenzene	ND		66.3	70.3		ug/Kg	☼	106	60 - 145
sec-Butylbenzene	ND		66.3	75.5		ug/Kg	☼	114	64 - 137
tert-Butylbenzene	ND		66.3	78.4		ug/Kg	☼	118	63 - 134
Carbon disulfide	ND		66.3	63.1		ug/Kg	☼	95	10 - 150
Carbon tetrachloride	ND		66.3	65.6		ug/Kg	☼	99	54 - 130
Chlorobenzene	ND		66.3	70.3		ug/Kg	☼	106	70 - 130
Chloroethane	ND		66.3	65.7		ug/Kg	☼	99	61 - 130
Chloroform	ND		66.3	62.4		ug/Kg	☼	94	67 - 130
Chloromethane	ND		66.3	66.6		ug/Kg	☼	101	50 - 131
2-Chlorotoluene	ND		66.3	79.7		ug/Kg	☼	120	70 - 130
4-Chlorotoluene	ND		66.3	77.1		ug/Kg	☼	116	70 - 130
Chlorodibromomethane	ND		66.3	64.8		ug/Kg	☼	98	60 - 141
1,2-Dichlorobenzene	ND		66.3	71.0		ug/Kg	☼	107	70 - 130
1,3-Dichlorobenzene	ND		66.3	70.7		ug/Kg	☼	107	70 - 130
1,4-Dichlorobenzene	ND		66.3	70.7		ug/Kg	☼	107	70 - 130
1,3-Dichloropropane	ND		66.3	64.0		ug/Kg	☼	96	70 - 130
1,1-Dichloropropene	ND		66.3	69.0		ug/Kg	☼	104	67 - 130
1,2-Dibromo-3-Chloropropane	ND		66.3	67.8		ug/Kg	☼	102	57 - 130
Ethylene Dibromide	ND		66.3	66.3		ug/Kg	☼	100	66 - 135
Dibromomethane	ND		66.3	66.0		ug/Kg	☼	100	65 - 131
Dichlorodifluoromethane	ND		66.3	77.6		ug/Kg	☼	117	38 - 130
1,1-Dichloroethane	ND		66.3	68.0		ug/Kg	☼	103	67 - 130
1,2-Dichloroethane	ND		66.3	65.6		ug/Kg	☼	99	70 - 130
1,1-Dichloroethene	ND		66.3	61.9		ug/Kg	☼	93	64 - 130
cis-1,2-Dichloroethene	ND		66.3	66.4		ug/Kg	☼	100	68 - 131
trans-1,2-Dichloroethene	ND		66.3	69.8		ug/Kg	☼	105	70 - 130
1,2-Dichloropropane	ND		66.3	71.6		ug/Kg	☼	108	65 - 133
cis-1,3-Dichloropropene	ND		66.3	73.1		ug/Kg	☼	110	46 - 139
trans-1,3-Dichloropropene	ND		66.3	73.0		ug/Kg	☼	110	55 - 131
Ethylbenzene	ND		66.3	71.9		ug/Kg	☼	108	65 - 130
Hexachlorobutadiene	ND		66.3	53.0		ug/Kg	☼	80	58 - 132
2-Hexanone	ND		265	281		ug/Kg	☼	106	44 - 150
Isopropylbenzene	ND		66.3	66.8		ug/Kg	☼	101	65 - 130
4-Isopropyltoluene	ND		66.3	74.1		ug/Kg	☼	112	69 - 134
Methylene Chloride	ND		66.3	64.6		ug/Kg	☼	98	63 - 130
4-Methyl-2-pentanone (MIBK)	ND		265	318		ug/Kg	☼	120	51 - 140
Naphthalene	ND		66.3	53.9		ug/Kg	☼	81	45 - 146
N-Propylbenzene	ND		66.3	80.3		ug/Kg	☼	121	70 - 130
Styrene	ND		66.3	67.0		ug/Kg	☼	101	58 - 135
1,1,1,2-Tetrachloroethane	ND		66.3	78.7		ug/Kg	☼	119	64 - 133
1,1,2,2-Tetrachloroethane	ND		66.3	84.7		ug/Kg	☼	128	70 - 131
Tetrachloroethene	ND		66.3	67.0		ug/Kg	☼	101	67 - 130
Toluene	ND		66.3	75.2		ug/Kg	☼	113	70 - 130
1,2,3-Trichlorobenzene	ND		66.3	49.6		ug/Kg	☼	75	58 - 138

TestAmerica Pleasanton

# QC Sample Results

Client: Geologica Inc  
Project/Site: Pin High

TestAmerica Job ID: 720-69933-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: 720-69933-12 MS**

**Matrix: Solid**

**Analysis Batch: 196326**

**Client Sample ID: GP-2-3.5-4'**

**Prep Type: Total/NA**

**Prep Batch: 196202**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
1,2,4-Trichlorobenzene	ND		66.3	53.7		ug/Kg	☼	81	49 - 144
1,1,1-Trichloroethane	ND		66.3	64.8		ug/Kg	☼	98	57 - 133
1,1,2-Trichloroethane	ND		66.3	70.4		ug/Kg	☼	106	68 - 132
Trichloroethene	ND		66.3	71.3		ug/Kg	☼	108	66 - 130
Trichlorofluoromethane	ND		66.3	65.0		ug/Kg	☼	98	61 - 130
1,2,3-Trichloropropane	ND		66.3	82.2		ug/Kg	☼	124	62 - 150
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		66.3	63.5		ug/Kg	☼	96	52 - 130
1,2,4-Trimethylbenzene	ND		66.3	79.3		ug/Kg	☼	120	64 - 140
1,3,5-Trimethylbenzene	ND		66.3	81.6		ug/Kg	☼	123	67 - 134
Vinyl acetate	ND	F1	66.3	ND	F1	ug/Kg	☼	0	52 - 150
Vinyl chloride	ND		66.3	68.8		ug/Kg	☼	104	62 - 130
m-Xylene & p-Xylene	ND		66.3	71.7		ug/Kg	☼	108	70 - 130
o-Xylene	ND		66.3	67.6		ug/Kg	☼	102	68 - 130
2,2-Dichloropropane	ND		66.3	66.4		ug/Kg	☼	100	63 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene	98		45 - 131
1,2-Dichloroethane-d4 (Surr)	92		60 - 140
Toluene-d8 (Surr)	106		58 - 140

**Lab Sample ID: 720-69933-12 MSD**

**Matrix: Solid**

**Analysis Batch: 196326**

**Client Sample ID: GP-2-3.5-4'**

**Prep Type: Total/NA**

**Prep Batch: 196202**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Methyl tert-butyl ether	ND		63.0	71.0		ug/Kg	☼				
Acetone	ND		252	360		ug/Kg	☼				
Benzene	ND		63.0	68.2		ug/Kg	☼				
Dichlorobromomethane	ND		63.0	64.3		ug/Kg	☼				
Bromobenzene	ND		63.0	80.6		ug/Kg	☼				
Chlorobromomethane	ND		63.0	67.7		ug/Kg	☼				
Bromoform	ND		63.0	71.6		ug/Kg	☼				
Bromomethane	ND		63.0	62.1		ug/Kg	☼				
2-Butanone (MEK)	ND		252	264		ug/Kg	☼				
n-Butylbenzene	ND		63.0	66.6		ug/Kg	☼				
sec-Butylbenzene	ND		63.0	74.3		ug/Kg	☼				
tert-Butylbenzene	ND		63.0	78.0		ug/Kg	☼				
Carbon disulfide	ND		63.0	58.5		ug/Kg	☼				
Carbon tetrachloride	ND		63.0	61.6		ug/Kg	☼				
Chlorobenzene	ND		63.0	65.6		ug/Kg	☼				
Chloroethane	ND		63.0	61.8		ug/Kg	☼				
Chloroform	ND		63.0	58.5		ug/Kg	☼				
Chloromethane	ND		63.0	62.8		ug/Kg	☼				
2-Chlorotoluene	ND		63.0	77.7		ug/Kg	☼				
4-Chlorotoluene	ND		63.0	74.1		ug/Kg	☼				
Chlorodibromomethane	ND		63.0	62.3		ug/Kg	☼				
1,2-Dichlorobenzene	ND		63.0	66.8		ug/Kg	☼				

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# QC Sample Results

Client: Geologica Inc  
Project/Site: Pin High

TestAmerica Job ID: 720-69933-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: 720-69933-12 MSD**

**Matrix: Solid**

**Analysis Batch: 196326**

**Client Sample ID: GP-2-3.5-4'**

**Prep Type: Total/NA**

**Prep Batch: 196202**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
	Result	Qualifier	Added	Result	Qualifier						
1,3-Dichlorobenzene	ND		63.0	66.1		ug/Kg	*				
1,4-Dichlorobenzene	ND		63.0	66.0		ug/Kg	*				
1,3-Dichloropropane	ND		63.0	61.8		ug/Kg	*				
1,1-Dichloropropene	ND		63.0	64.1		ug/Kg	*				
1,2-Dibromo-3-Chloropropane	ND		63.0	76.1		ug/Kg	*				
Ethylene Dibromide	ND		63.0	64.5		ug/Kg	*				
Dibromomethane	ND		63.0	65.0		ug/Kg	*				
Dichlorodifluoromethane	ND		63.0	74.9		ug/Kg	*				
1,1-Dichloroethane	ND		63.0	64.3		ug/Kg	*				
1,2-Dichloroethane	ND		63.0	63.5		ug/Kg	*				
1,1-Dichloroethene	ND		63.0	57.8		ug/Kg	*				
cis-1,2-Dichloroethene	ND		63.0	62.4		ug/Kg	*				
trans-1,2-Dichloroethene	ND		63.0	65.4		ug/Kg	*				
1,2-Dichloropropane	ND		63.0	67.8		ug/Kg	*				
cis-1,3-Dichloropropene	ND		63.0	69.4		ug/Kg	*				
trans-1,3-Dichloropropene	ND		63.0	69.0		ug/Kg	*				
Ethylbenzene	ND		63.0	67.6		ug/Kg	*				
Hexachlorobutadiene	ND		63.0	51.2		ug/Kg	*				
2-Hexanone	ND		252	292		ug/Kg	*				
Isopropylbenzene	ND		63.0	62.1		ug/Kg	*				
4-Isopropyltoluene	ND		63.0	72.2		ug/Kg	*				
Methylene Chloride	ND		63.0	61.4		ug/Kg	*				
4-Methyl-2-pentanone (MIBK)	ND		252	336		ug/Kg	*				
Naphthalene	ND		63.0	49.9		ug/Kg	*				
N-Propylbenzene	ND		63.0	79.2		ug/Kg	*				
Styrene	ND		63.0	61.3		ug/Kg	*				
1,1,1,2-Tetrachloroethane	ND		63.0	75.8		ug/Kg	*				
1,1,1,2,2-Tetrachloroethane	ND		63.0	93.8		ug/Kg	*				
Tetrachloroethene	ND		63.0	61.7		ug/Kg	*				
Toluene	ND		63.0	71.6		ug/Kg	*				
1,2,3-Trichlorobenzene	ND		63.0	43.5		ug/Kg	*				
1,2,4-Trichlorobenzene	ND		63.0	45.9		ug/Kg	*				
1,1,1-Trichloroethane	ND		63.0	61.2		ug/Kg	*				
1,1,2-Trichloroethane	ND		63.0	69.2		ug/Kg	*				
Trichloroethene	ND		63.0	66.8		ug/Kg	*				
Trichlorofluoromethane	ND		63.0	63.6		ug/Kg	*				
1,2,3-Trichloropropane	ND		63.0	90.5		ug/Kg	*				
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		63.0	60.1		ug/Kg	*				
1,2,4-Trimethylbenzene	ND		63.0	76.7		ug/Kg	*				
1,3,5-Trimethylbenzene	ND		63.0	80.4		ug/Kg	*				
Vinyl acetate	ND	F1	63.0	ND		ug/Kg	*				
Vinyl chloride	ND		63.0	66.1		ug/Kg	*				
m-Xylene & p-Xylene	ND		63.0	67.0		ug/Kg	*				
o-Xylene	ND		63.0	63.8		ug/Kg	*				
2,2-Dichloropropane	ND		63.0	62.1		ug/Kg	*				

TestAmerica Pleasanton

# QC Sample Results

Client: Geologica Inc  
Project/Site: Pin High

TestAmerica Job ID: 720-69933-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: 720-69933-12 MSD**  
**Matrix: Solid**  
**Analysis Batch: 196326**

**Client Sample ID: GP-2-3.5-4'**  
**Prep Type: Total/NA**  
**Prep Batch: 196202**

<i>Surrogate</i>	<i>%Recovery</i>	<i>MSD MSD Qualifier</i>	<i>Limits</i>
4-Bromofluorobenzene			
1,2-Dichloroethane-d4 (Surr)			
Toluene-d8 (Surr)			

**Lab Sample ID: MB 720-196288/4**  
**Matrix: Solid**  
**Analysis Batch: 196288**

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

<b>Analyte</b>	<b>MB Result</b>	<b>MB Qualifier</b>	<b>RL</b>	<b>MDL</b>	<b>Unit</b>	<b>D</b>	<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Methyl tert-butyl ether	ND		5.0		ug/Kg			01/26/16 20:00	1
Acetone	ND		50		ug/Kg			01/26/16 20:00	1
Benzene	ND		5.0		ug/Kg			01/26/16 20:00	1
Dichlorobromomethane	ND		5.0		ug/Kg			01/26/16 20:00	1
Bromobenzene	ND		5.0		ug/Kg			01/26/16 20:00	1
Chlorobromomethane	ND		20		ug/Kg			01/26/16 20:00	1
Bromoform	ND		5.0		ug/Kg			01/26/16 20:00	1
Bromomethane	ND		10		ug/Kg			01/26/16 20:00	1
2-Butanone (MEK)	ND		50		ug/Kg			01/26/16 20:00	1
n-Butylbenzene	ND		5.0		ug/Kg			01/26/16 20:00	1
sec-Butylbenzene	ND		5.0		ug/Kg			01/26/16 20:00	1
tert-Butylbenzene	ND		5.0		ug/Kg			01/26/16 20:00	1
Carbon disulfide	ND		5.0		ug/Kg			01/26/16 20:00	1
Carbon tetrachloride	ND		5.0		ug/Kg			01/26/16 20:00	1
Chlorobenzene	ND		5.0		ug/Kg			01/26/16 20:00	1
Chloroethane	ND		10		ug/Kg			01/26/16 20:00	1
Chloroform	ND		5.0		ug/Kg			01/26/16 20:00	1
Chloromethane	ND		10		ug/Kg			01/26/16 20:00	1
2-Chlorotoluene	ND		5.0		ug/Kg			01/26/16 20:00	1
4-Chlorotoluene	ND		5.0		ug/Kg			01/26/16 20:00	1
Chlorodibromomethane	ND		5.0		ug/Kg			01/26/16 20:00	1
1,2-Dichlorobenzene	ND		5.0		ug/Kg			01/26/16 20:00	1
1,3-Dichlorobenzene	ND		5.0		ug/Kg			01/26/16 20:00	1
1,4-Dichlorobenzene	ND		5.0		ug/Kg			01/26/16 20:00	1
1,3-Dichloropropane	ND		5.0		ug/Kg			01/26/16 20:00	1
1,1-Dichloropropene	ND		5.0		ug/Kg			01/26/16 20:00	1
1,2-Dibromo-3-Chloropropane	ND		10		ug/Kg			01/26/16 20:00	1
Ethylene Dibromide	ND		5.0		ug/Kg			01/26/16 20:00	1
Dibromomethane	ND		10		ug/Kg			01/26/16 20:00	1
Dichlorodifluoromethane	ND		10		ug/Kg			01/26/16 20:00	1
1,1-Dichloroethane	ND		5.0		ug/Kg			01/26/16 20:00	1
1,2-Dichloroethane	ND		5.0		ug/Kg			01/26/16 20:00	1
1,1-Dichloroethene	ND		5.0		ug/Kg			01/26/16 20:00	1
cis-1,2-Dichloroethene	ND		5.0		ug/Kg			01/26/16 20:00	1
trans-1,2-Dichloroethene	ND		5.0		ug/Kg			01/26/16 20:00	1
1,2-Dichloropropane	ND		5.0		ug/Kg			01/26/16 20:00	1
cis-1,3-Dichloropropene	ND		5.0		ug/Kg			01/26/16 20:00	1
trans-1,3-Dichloropropene	ND		5.0		ug/Kg			01/26/16 20:00	1
Ethylbenzene	ND		5.0		ug/Kg			01/26/16 20:00	1

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# QC Sample Results

Client: Geologica Inc  
Project/Site: Pin High

TestAmerica Job ID: 720-69933-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 720-196288/4**  
**Matrix: Solid**  
**Analysis Batch: 196288**

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorobutadiene	ND		5.0		ug/Kg			01/26/16 20:00	1
2-Hexanone	ND		50		ug/Kg			01/26/16 20:00	1
Isopropylbenzene	ND		5.0		ug/Kg			01/26/16 20:00	1
4-Isopropyltoluene	ND		5.0		ug/Kg			01/26/16 20:00	1
Methylene Chloride	ND		10		ug/Kg			01/26/16 20:00	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/Kg			01/26/16 20:00	1
Naphthalene	ND		10		ug/Kg			01/26/16 20:00	1
N-Propylbenzene	ND		5.0		ug/Kg			01/26/16 20:00	1
Styrene	ND		5.0		ug/Kg			01/26/16 20:00	1
1,1,1,2-Tetrachloroethane	ND		5.0		ug/Kg			01/26/16 20:00	1
1,1,2,2-Tetrachloroethane	ND		5.0		ug/Kg			01/26/16 20:00	1
Tetrachloroethene	ND		5.0		ug/Kg			01/26/16 20:00	1
Toluene	ND		5.0		ug/Kg			01/26/16 20:00	1
1,2,3-Trichlorobenzene	ND		5.0		ug/Kg			01/26/16 20:00	1
1,2,4-Trichlorobenzene	ND		5.0		ug/Kg			01/26/16 20:00	1
1,1,1-Trichloroethane	ND		5.0		ug/Kg			01/26/16 20:00	1
1,1,2-Trichloroethane	ND		5.0		ug/Kg			01/26/16 20:00	1
Trichloroethene	ND		5.0		ug/Kg			01/26/16 20:00	1
Trichlorofluoromethane	ND		5.0		ug/Kg			01/26/16 20:00	1
1,2,3-Trichloropropane	ND		5.0		ug/Kg			01/26/16 20:00	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0		ug/Kg			01/26/16 20:00	1
1,2,4-Trimethylbenzene	ND		5.0		ug/Kg			01/26/16 20:00	1
1,3,5-Trimethylbenzene	ND		5.0		ug/Kg			01/26/16 20:00	1
Vinyl acetate	ND		20		ug/Kg			01/26/16 20:00	1
Vinyl chloride	ND		5.0		ug/Kg			01/26/16 20:00	1
Xylenes, Total	ND		10		ug/Kg			01/26/16 20:00	1
2,2-Dichloropropane	ND		5.0		ug/Kg			01/26/16 20:00	1
Gasoline Range Organics (GRO) -C5-C12	ND		250		ug/Kg			01/26/16 20:00	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	98		45 - 131		01/26/16 20:00	1
1,2-Dichloroethane-d4 (Surr)	107		60 - 140		01/26/16 20:00	1
Toluene-d8 (Surr)	103		58 - 140		01/26/16 20:00	1

**Lab Sample ID: LCS 720-196288/5**  
**Matrix: Solid**  
**Analysis Batch: 196288**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methyl tert-butyl ether	50.0	55.8		ug/Kg		112	70 - 144
Acetone	200	197		ug/Kg		98	30 - 162
Benzene	50.0	52.4		ug/Kg		105	70 - 130
Dichlorobromomethane	50.0	52.6		ug/Kg		105	70 - 140
Bromobenzene	50.0	54.2		ug/Kg		108	70 - 130
Chlorobromomethane	50.0	53.1		ug/Kg		106	70 - 130
Bromoform	50.0	57.4		ug/Kg		115	59 - 158
Bromomethane	50.0	46.7		ug/Kg		93	59 - 132

TestAmerica Pleasanton

# QC Sample Results

Client: Geologica Inc  
Project/Site: Pin High

TestAmerica Job ID: 720-69933-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 720-196288/5**

**Matrix: Solid**

**Analysis Batch: 196288**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Butanone (MEK)	200	227		ug/Kg		113	53 - 133
n-Butylbenzene	50.0	47.9		ug/Kg		96	70 - 142
sec-Butylbenzene	50.0	47.1		ug/Kg		94	70 - 136
tert-Butylbenzene	50.0	48.0		ug/Kg		96	70 - 130
Carbon disulfide	50.0	43.1		ug/Kg		86	60 - 140
Carbon tetrachloride	50.0	47.9		ug/Kg		96	70 - 142
Chlorobenzene	50.0	51.2		ug/Kg		102	70 - 130
Chloroethane	50.0	44.0		ug/Kg		88	65 - 130
Chloroform	50.0	46.6		ug/Kg		93	77 - 127
Chloromethane	50.0	41.9		ug/Kg		84	55 - 140
2-Chlorotoluene	50.0	50.2		ug/Kg		100	70 - 138
4-Chlorotoluene	50.0	50.4		ug/Kg		101	70 - 136
Chlorodibromomethane	50.0	53.6		ug/Kg		107	70 - 146
1,2-Dichlorobenzene	50.0	52.3		ug/Kg		105	70 - 130
1,3-Dichlorobenzene	50.0	50.7		ug/Kg		101	70 - 131
1,4-Dichlorobenzene	50.0	51.0		ug/Kg		102	70 - 130
1,3-Dichloropropane	50.0	50.3		ug/Kg		101	70 - 140
1,1-Dichloropropane	50.0	48.7		ug/Kg		97	70 - 130
1,2-Dibromo-3-Chloropropane	50.0	50.5		ug/Kg		101	60 - 145
Ethylene Dibromide	50.0	54.1		ug/Kg		108	70 - 140
Dibromomethane	50.0	52.2		ug/Kg		104	70 - 139
Dichlorodifluoromethane	50.0	51.2		ug/Kg		102	37 - 158
1,1-Dichloroethane	50.0	48.3		ug/Kg		97	70 - 130
1,2-Dichloroethane	50.0	52.6		ug/Kg		105	70 - 130
1,1-Dichloroethene	50.0	42.0		ug/Kg		84	74 - 122
cis-1,2-Dichloroethene	50.0	49.0		ug/Kg		98	70 - 138
trans-1,2-Dichloroethene	50.0	48.8		ug/Kg		98	67 - 130
1,2-Dichloropropane	50.0	52.4		ug/Kg		105	73 - 127
cis-1,3-Dichloropropene	50.0	56.4		ug/Kg		113	68 - 147
trans-1,3-Dichloropropene	50.0	58.7		ug/Kg		117	70 - 155
Ethylbenzene	50.0	49.7		ug/Kg		99	80 - 137
Hexachlorobutadiene	50.0	49.2		ug/Kg		98	70 - 132
2-Hexanone	200	236		ug/Kg		118	44 - 133
Isopropylbenzene	50.0	47.1		ug/Kg		94	70 - 130
4-Isopropyltoluene	50.0	47.1		ug/Kg		94	70 - 133
Methylene Chloride	50.0	49.5		ug/Kg		99	70 - 134
4-Methyl-2-pentanone (MIBK)	200	265		ug/Kg		132	60 - 160
Naphthalene	50.0	52.7		ug/Kg		105	60 - 147
N-Propylbenzene	50.0	47.6		ug/Kg		95	70 - 130
Styrene	50.0	51.1		ug/Kg		102	70 - 130
1,1,1,2-Tetrachloroethane	50.0	56.8		ug/Kg		114	70 - 130
1,1,2,2-Tetrachloroethane	50.0	54.4		ug/Kg		109	70 - 146
Tetrachloroethene	50.0	49.5		ug/Kg		99	70 - 132
Toluene	50.0	50.6		ug/Kg		101	75 - 120
1,2,3-Trichlorobenzene	50.0	53.7		ug/Kg		107	60 - 140
1,2,4-Trichlorobenzene	50.0	55.1		ug/Kg		110	60 - 140
1,1,1-Trichloroethane	50.0	47.4		ug/Kg		95	70 - 130
1,1,2-Trichloroethane	50.0	55.8		ug/Kg		112	70 - 130

TestAmerica Pleasanton

# QC Sample Results

Client: Geologica Inc  
Project/Site: Pin High

TestAmerica Job ID: 720-69933-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 720-196288/5**  
**Matrix: Solid**  
**Analysis Batch: 196288**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Trichloroethene	50.0	51.4		ug/Kg		103	70 - 133
Trichlorofluoromethane	50.0	45.4		ug/Kg		91	60 - 140
1,2,3-Trichloropropane	50.0	53.8		ug/Kg		108	70 - 146
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	43.3		ug/Kg		87	60 - 140
1,2,4-Trimethylbenzene	50.0	50.3		ug/Kg		101	70 - 130
1,3,5-Trimethylbenzene	50.0	50.1		ug/Kg		100	70 - 131
Vinyl acetate	50.0	46.9		ug/Kg		94	38 - 176
Vinyl chloride	50.0	44.2		ug/Kg		88	58 - 125
m-Xylene & p-Xylene	50.0	51.0		ug/Kg		102	70 - 146
o-Xylene	50.0	48.7		ug/Kg		97	70 - 140
2,2-Dichloropropane	50.0	46.0		ug/Kg		92	70 - 162

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene	109		45 - 131
1,2-Dichloroethane-d4 (Surr)	101		60 - 140
Toluene-d8 (Surr)	110		58 - 140

**Lab Sample ID: LCS 720-196288/7**  
**Matrix: Solid**  
**Analysis Batch: 196288**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO) -C5-C12	1000	1210		ug/Kg		121	61 - 128

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene	107		45 - 131
1,2-Dichloroethane-d4 (Surr)	100		60 - 140
Toluene-d8 (Surr)	110		58 - 140

**Lab Sample ID: LCSD 720-196288/6**  
**Matrix: Solid**  
**Analysis Batch: 196288**

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Methyl tert-butyl ether	50.0	57.8		ug/Kg		116	70 - 144	4	20
Acetone	200	198		ug/Kg		99	30 - 162	1	30
Benzene	50.0	52.9		ug/Kg		106	70 - 130	1	20
Dichlorobromomethane	50.0	52.7		ug/Kg		105	70 - 140	0	20
Bromobenzene	50.0	53.5		ug/Kg		107	70 - 130	1	20
Chlorobromomethane	50.0	54.1		ug/Kg		108	70 - 130	2	20
Bromoform	50.0	58.3		ug/Kg		117	59 - 158	2	20
Bromomethane	50.0	46.7		ug/Kg		93	59 - 132	0	20
2-Butanone (MEK)	200	233		ug/Kg		116	53 - 133	3	20
n-Butylbenzene	50.0	48.3		ug/Kg		97	70 - 142	1	20
sec-Butylbenzene	50.0	47.4		ug/Kg		95	70 - 136	1	20
tert-Butylbenzene	50.0	48.1		ug/Kg		96	70 - 130	0	20

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# QC Sample Results

Client: Geologica Inc  
Project/Site: Pin High

TestAmerica Job ID: 720-69933-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 720-196288/6

Matrix: Solid

Analysis Batch: 196288

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Carbon disulfide	50.0	44.0		ug/Kg		88	60 - 140	2	20
Carbon tetrachloride	50.0	47.1		ug/Kg		94	70 - 142	2	20
Chlorobenzene	50.0	51.8		ug/Kg		104	70 - 130	1	20
Chloroethane	50.0	43.8		ug/Kg		88	65 - 130	0	20
Chloroform	50.0	46.8		ug/Kg		94	77 - 127	0	20
Chloromethane	50.0	43.4		ug/Kg		87	55 - 140	3	20
2-Chlorotoluene	50.0	51.4		ug/Kg		103	70 - 138	2	20
4-Chlorotoluene	50.0	51.1		ug/Kg		102	70 - 136	1	20
Chlorodibromomethane	50.0	53.6		ug/Kg		107	70 - 146	0	20
1,2-Dichlorobenzene	50.0	53.2		ug/Kg		106	70 - 130	2	20
1,3-Dichlorobenzene	50.0	51.2		ug/Kg		102	70 - 131	1	20
1,4-Dichlorobenzene	50.0	51.8		ug/Kg		104	70 - 130	2	20
1,3-Dichloropropane	50.0	50.9		ug/Kg		102	70 - 140	1	20
1,1-Dichloropropene	50.0	48.7		ug/Kg		97	70 - 130	0	20
1,2-Dibromo-3-Chloropropane	50.0	51.9		ug/Kg		104	60 - 145	3	20
Ethylene Dibromide	50.0	54.2		ug/Kg		108	70 - 140	0	20
Dibromomethane	50.0	52.8		ug/Kg		106	70 - 139	1	20
Dichlorodifluoromethane	50.0	50.9		ug/Kg		102	37 - 158	1	20
1,1-Dichloroethane	50.0	49.1		ug/Kg		98	70 - 130	1	20
1,2-Dichloroethane	50.0	52.6		ug/Kg		105	70 - 130	0	20
1,1-Dichloroethene	50.0	42.4		ug/Kg		85	74 - 122	1	20
cis-1,2-Dichloroethene	50.0	49.1		ug/Kg		98	70 - 138	0	20
trans-1,2-Dichloroethene	50.0	49.3		ug/Kg		99	67 - 130	1	20
1,2-Dichloropropane	50.0	52.8		ug/Kg		106	73 - 127	1	20
cis-1,3-Dichloropropene	50.0	57.1		ug/Kg		114	68 - 147	1	20
trans-1,3-Dichloropropene	50.0	59.5		ug/Kg		119	70 - 155	1	20
Ethylbenzene	50.0	49.9		ug/Kg		100	80 - 137	0	20
Hexachlorobutadiene	50.0	49.0		ug/Kg		98	70 - 132	0	20
2-Hexanone	200	243		ug/Kg		121	44 - 133	3	20
Isopropylbenzene	50.0	46.9		ug/Kg		94	70 - 130	0	20
4-Isopropyltoluene	50.0	47.6		ug/Kg		95	70 - 133	1	20
Methylene Chloride	50.0	50.5		ug/Kg		101	70 - 134	2	20
4-Methyl-2-pentanone (MIBK)	200	274		ug/Kg		137	60 - 160	3	20
Naphthalene	50.0	54.2		ug/Kg		108	60 - 147	3	20
N-Propylbenzene	50.0	48.3		ug/Kg		97	70 - 130	1	20
Styrene	50.0	51.3		ug/Kg		103	70 - 130	0	20
1,1,1,2-Tetrachloroethane	50.0	57.2		ug/Kg		114	70 - 130	1	20
1,1,2,2-Tetrachloroethane	50.0	55.7		ug/Kg		111	70 - 146	2	20
Tetrachloroethene	50.0	49.6		ug/Kg		99	70 - 132	0	20
Toluene	50.0	50.9		ug/Kg		102	75 - 120	1	20
1,2,3-Trichlorobenzene	50.0	55.4		ug/Kg		111	60 - 140	3	20
1,2,4-Trichlorobenzene	50.0	56.4		ug/Kg		113	60 - 140	2	20
1,1,1-Trichloroethane	50.0	47.0		ug/Kg		94	70 - 130	1	20
1,1,2-Trichloroethane	50.0	56.5		ug/Kg		113	70 - 130	1	20
Trichloroethene	50.0	51.3		ug/Kg		103	70 - 133	0	20
Trichlorofluoromethane	50.0	44.7		ug/Kg		89	60 - 140	2	20
1,2,3-Trichloropropane	50.0	53.9		ug/Kg		108	70 - 146	0	20

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# QC Sample Results

Client: Geologica Inc  
Project/Site: Pin High

TestAmerica Job ID: 720-69933-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCSD 720-196288/6**  
**Matrix: Solid**  
**Analysis Batch: 196288**

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	43.1		ug/Kg		86	60 - 140	0	20
1,2,4-Trimethylbenzene	50.0	51.0		ug/Kg		102	70 - 130	1	20
1,3,5-Trimethylbenzene	50.0	50.7		ug/Kg		101	70 - 131	1	20
Vinyl acetate	50.0	48.6		ug/Kg		97	38 - 176	4	20
Vinyl chloride	50.0	44.7		ug/Kg		89	58 - 125	1	20
m-Xylene & p-Xylene	50.0	50.8		ug/Kg		102	70 - 146	0	20
o-Xylene	50.0	48.9		ug/Kg		98	70 - 140	0	20
2,2-Dichloropropane	50.0	46.6		ug/Kg		93	70 - 162	1	20

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
4-Bromofluorobenzene	107		45 - 131
1,2-Dichloroethane-d4 (Surr)	100		60 - 140
Toluene-d8 (Surr)	110		58 - 140

**Lab Sample ID: LCSD 720-196288/8**  
**Matrix: Solid**  
**Analysis Batch: 196288**

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C5-C12	1000	1130		ug/Kg		113	61 - 128	6	20

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
4-Bromofluorobenzene	107		45 - 131
1,2-Dichloroethane-d4 (Surr)	99		60 - 140
Toluene-d8 (Surr)	110		58 - 140

**Lab Sample ID: 720-69933-35 MS**  
**Matrix: Solid**  
**Analysis Batch: 196408**

**Client Sample ID: GP-8-3.5-4'**  
**Prep Type: Total/NA**  
**Prep Batch: 196295**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Methyl tert-butyl ether	ND		64.8	75.3		ug/Kg	☼	116	69 - 130
Acetone	ND	F1	259	499	F1	ug/Kg	☼	192	37 - 150
Benzene	ND		64.8	72.5		ug/Kg	☼	112	70 - 130
Dichlorobromomethane	ND		64.8	62.9		ug/Kg	☼	97	64 - 135
Bromobenzene	ND	* F1 F2	64.8	91.0	* F1	ug/Kg	☼	140	70 - 130
Chlorobromomethane	ND		64.8	68.1		ug/Kg	☼	105	65 - 130
Bromoform	ND		64.8	67.5		ug/Kg	☼	104	58 - 132
Bromomethane	ND		64.8	61.3		ug/Kg	☼	95	56 - 130
2-Butanone (MEK)	ND		259	305		ug/Kg	☼	118	41 - 150
n-Butylbenzene	ND	*	64.8	69.9	*	ug/Kg	☼	108	60 - 145
sec-Butylbenzene	ND	* F1 F2	64.8	90.9	* F1	ug/Kg	☼	140	64 - 137
tert-Butylbenzene	ND	* F1 F2	64.8	104	* F1	ug/Kg	☼	160	63 - 134
Carbon disulfide	ND		64.8	65.5		ug/Kg	☼	101	10 - 150
Carbon tetrachloride	ND		64.8	66.5		ug/Kg	☼	103	54 - 130
Chlorobenzene	ND		64.8	70.9		ug/Kg	☼	109	70 - 130

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# QC Sample Results

Client: Geologica Inc  
Project/Site: Pin High

TestAmerica Job ID: 720-69933-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: 720-69933-35 MS**

**Matrix: Solid**

**Analysis Batch: 196408**

**Client Sample ID: GP-8-3.5-4'**

**Prep Type: Total/NA**

**Prep Batch: 196295**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Chloroethane	ND		64.8	66.7		ug/Kg	☼	103	61 - 130
Chloroform	ND		64.8	65.9		ug/Kg	☼	102	67 - 130
Chloromethane	ND		64.8	69.7		ug/Kg	☼	108	50 - 131
2-Chlorotoluene	ND	* F1 F2	64.8	91.3	* F1	ug/Kg	☼	141	70 - 130
4-Chlorotoluene	ND	* F2	64.8	83.9	*	ug/Kg	☼	129	70 - 130
Chlorodibromomethane	ND		64.8	57.0		ug/Kg	☼	88	60 - 141
1,2-Dichlorobenzene	ND	*	64.8	63.1	*	ug/Kg	☼	97	70 - 130
1,3-Dichlorobenzene	ND	*	64.8	68.0	*	ug/Kg	☼	105	70 - 130
1,4-Dichlorobenzene	ND	*	64.8	66.8	*	ug/Kg	☼	103	70 - 130
1,3-Dichloropropane	ND		64.8	62.6		ug/Kg	☼	96	70 - 130
1,1-Dichloropropene	ND		64.8	65.1		ug/Kg	☼	100	67 - 130
1,2-Dibromo-3-Chloropropane	ND	* F1	64.8	87.6	* F1	ug/Kg	☼	135	57 - 130
Ethylene Dibromide	ND		64.8	59.3		ug/Kg	☼	91	66 - 135
Dibromomethane	ND		64.8	59.2		ug/Kg	☼	91	65 - 131
Dichlorodifluoromethane	ND		64.8	60.4		ug/Kg	☼	93	38 - 130
1,1-Dichloroethane	ND		64.8	71.9		ug/Kg	☼	111	67 - 130
1,2-Dichloroethane	ND		64.8	68.4		ug/Kg	☼	105	70 - 130
1,1-Dichloroethene	ND		64.8	67.0		ug/Kg	☼	103	64 - 130
cis-1,2-Dichloroethene	ND		64.8	64.3		ug/Kg	☼	99	68 - 131
trans-1,2-Dichloroethene	ND		64.8	70.3		ug/Kg	☼	108	70 - 130
1,2-Dichloropropane	ND		64.8	68.9		ug/Kg	☼	106	65 - 133
cis-1,3-Dichloropropene	ND		64.8	61.5		ug/Kg	☼	95	46 - 139
trans-1,3-Dichloropropene	ND		64.8	60.2		ug/Kg	☼	93	55 - 131
Ethylbenzene	ND		64.8	66.6		ug/Kg	☼	103	65 - 130
Hexachlorobutadiene	ND	*	64.8	48.8	*	ug/Kg	☼	75	58 - 132
2-Hexanone	ND		259	252		ug/Kg	☼	97	44 - 150
Isopropylbenzene	ND		64.8	64.4		ug/Kg	☼	99	65 - 130
4-Isopropyltoluene	ND	* F2	64.8	81.0	*	ug/Kg	☼	125	69 - 134
Methylene Chloride	ND		64.8	77.3		ug/Kg	☼	119	63 - 130
4-Methyl-2-pentanone (MIBK)	ND		259	302		ug/Kg	☼	117	51 - 140
Naphthalene	ND	* F2	64.8	39.1	*	ug/Kg	☼	60	45 - 146
N-Propylbenzene	ND	* F1 F2	64.8	97.6	* F1	ug/Kg	☼	151	70 - 130
Styrene	ND		64.8	59.7		ug/Kg	☼	92	58 - 135
1,1,1,2-Tetrachloroethane	ND		64.8	73.8		ug/Kg	☼	114	64 - 133
1,1,2,2-Tetrachloroethane	ND	* F1	64.8	97.5	* F1	ug/Kg	☼	150	70 - 131
Tetrachloroethene	ND		64.8	60.0		ug/Kg	☼	93	67 - 130
Toluene	ND		64.8	79.2		ug/Kg	☼	122	70 - 130
1,2,3-Trichlorobenzene	ND	* F1 F2	64.8	26.0	* F1	ug/Kg	☼	40	58 - 138
1,2,4-Trichlorobenzene	ND	* F1 F2	64.8	30.3	* F1	ug/Kg	☼	47	49 - 144
1,1,1-Trichloroethane	ND		64.8	66.0		ug/Kg	☼	102	57 - 133
1,1,2-Trichloroethane	ND		64.8	63.8		ug/Kg	☼	98	68 - 132
Trichloroethene	ND		64.8	68.4		ug/Kg	☼	105	66 - 130
Trichlorofluoromethane	ND		64.8	68.9		ug/Kg	☼	106	61 - 130
1,2,3-Trichloropropane	ND	* F1 F2	64.8	118	* F1	ug/Kg	☼	181	62 - 150
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		64.8	66.4		ug/Kg	☼	102	52 - 130
1,2,4-Trimethylbenzene	ND	* F2	64.8	84.1	*	ug/Kg	☼	130	64 - 140
1,3,5-Trimethylbenzene	ND	* F1 F2	64.8	91.2	* F1	ug/Kg	☼	141	67 - 134

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# QC Sample Results

Client: Geologica Inc  
Project/Site: Pin High

TestAmerica Job ID: 720-69933-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: 720-69933-35 MS**

**Matrix: Solid**

**Analysis Batch: 196408**

**Client Sample ID: GP-8-3.5-4'**

**Prep Type: Total/NA**

**Prep Batch: 196295**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Vinyl acetate	ND	F1 F2	64.8	ND	F1	ug/Kg	☼	8	52 - 150
Vinyl chloride	ND		64.8	60.1		ug/Kg	☼	93	62 - 130
m-Xylene & p-Xylene	ND		64.8	67.6		ug/Kg	☼	104	70 - 130
o-Xylene	ND		64.8	64.3		ug/Kg	☼	99	68 - 130
2,2-Dichloropropane	ND		64.8	67.4		ug/Kg	☼	104	63 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene	85		45 - 131
1,2-Dichloroethane-d4 (Surr)	97		60 - 140
Toluene-d8 (Surr)	96		58 - 140

**Lab Sample ID: 720-69933-35 MSD**

**Matrix: Solid**

**Analysis Batch: 196408**

**Client Sample ID: GP-8-3.5-4'**

**Prep Type: Total/NA**

**Prep Batch: 196295**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	RPD Limit
Methyl tert-butyl ether	ND		63.8	77.1		ug/Kg	☼	121	69 - 130	2	20
Acetone	ND	F1	255	523	F1	ug/Kg	☼	205	37 - 150	5	20
Benzene	ND		63.8	69.7		ug/Kg	☼	109	70 - 130	4	20
Dichlorobromomethane	ND		63.8	62.8		ug/Kg	☼	98	64 - 135	0	20
Bromobenzene	ND	* F1 F2	63.8	74.0	F2	ug/Kg	☼	116	70 - 130	21	20
Chlorobromomethane	ND		63.8	66.0		ug/Kg	☼	103	65 - 130	3	20
Bromoform	ND		63.8	71.8		ug/Kg	☼	113	58 - 132	6	20
Bromomethane	ND		63.8	62.4		ug/Kg	☼	98	56 - 130	2	20
2-Butanone (MEK)	ND		255	321		ug/Kg	☼	126	41 - 150	5	20
n-Butylbenzene	ND	*	63.8	57.8		ug/Kg	☼	91	60 - 145	19	20
sec-Butylbenzene	ND	* F1 F2	63.8	69.2	F2	ug/Kg	☼	108	64 - 137	27	20
tert-Butylbenzene	ND	* F1 F2	63.8	78.5	F2	ug/Kg	☼	123	63 - 134	28	20
Carbon disulfide	ND		63.8	61.9		ug/Kg	☼	97	10 - 150	6	20
Carbon tetrachloride	ND		63.8	63.7		ug/Kg	☼	100	54 - 130	4	20
Chlorobenzene	ND		63.8	68.0		ug/Kg	☼	107	70 - 130	4	20
Chloroethane	ND		63.8	66.3		ug/Kg	☼	104	61 - 130	1	20
Chloroform	ND		63.8	63.4		ug/Kg	☼	99	67 - 130	4	20
Chloromethane	ND		63.8	68.6		ug/Kg	☼	107	50 - 131	2	20
2-Chlorotoluene	ND	* F1 F2	63.8	72.2	F2	ug/Kg	☼	113	70 - 130	23	20
4-Chlorotoluene	ND	* F2	63.8	68.3	F2	ug/Kg	☼	107	70 - 130	21	20
Chlorodibromomethane	ND		63.8	60.7		ug/Kg	☼	95	60 - 141	6	20
1,2-Dichlorobenzene	ND	*	63.8	62.8		ug/Kg	☼	98	70 - 130	1	20
1,3-Dichlorobenzene	ND	*	63.8	63.1		ug/Kg	☼	99	70 - 130	7	20
1,4-Dichlorobenzene	ND	*	63.8	63.2		ug/Kg	☼	99	70 - 130	5	20
1,3-Dichloropropane	ND		63.8	64.6		ug/Kg	☼	101	70 - 130	3	20
1,1-Dichloropropene	ND		63.8	62.0		ug/Kg	☼	97	67 - 130	5	20
1,2-Dibromo-3-Chloropropane	ND	* F1	63.8	76.8		ug/Kg	☼	120	57 - 130	13	20
Ethylene Dibromide	ND		63.8	64.4		ug/Kg	☼	101	66 - 135	8	20
Dibromomethane	ND		63.8	60.1		ug/Kg	☼	94	65 - 131	2	20
Dichlorodifluoromethane	ND		63.8	59.7		ug/Kg	☼	93	38 - 130	1	20
1,1-Dichloroethane	ND		63.8	70.4		ug/Kg	☼	110	67 - 130	2	20
1,2-Dichloroethane	ND		63.8	68.0		ug/Kg	☼	107	70 - 130	1	20

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# QC Sample Results

Client: Geologica Inc  
Project/Site: Pin High

TestAmerica Job ID: 720-69933-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: 720-69933-35 MSD**

**Matrix: Solid**

**Analysis Batch: 196408**

**Client Sample ID: GP-8-3.5-4'**

**Prep Type: Total/NA**

**Prep Batch: 196295**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
1,1-Dichloroethene	ND		63.8	65.0		ug/Kg	☼	102	64 - 130	3	20
cis-1,2-Dichloroethene	ND		63.8	61.7		ug/Kg	☼	97	68 - 131	4	20
trans-1,2-Dichloroethene	ND		63.8	68.3		ug/Kg	☼	107	70 - 130	3	20
1,2-Dichloropropane	ND		63.8	68.1		ug/Kg	☼	107	65 - 133	1	20
cis-1,3-Dichloropropene	ND		63.8	61.5		ug/Kg	☼	96	46 - 139	0	20
trans-1,3-Dichloropropene	ND		63.8	63.0		ug/Kg	☼	99	55 - 131	5	20
Ethylbenzene	ND		63.8	62.0		ug/Kg	☼	97	65 - 130	7	20
Hexachlorobutadiene	ND	*	63.8	43.6		ug/Kg	☼	68	58 - 132	11	20
2-Hexanone	ND		255	290		ug/Kg	☼	113	44 - 150	14	20
Isopropylbenzene	ND		63.8	61.6		ug/Kg	☼	97	65 - 130	4	20
4-Isopropyltoluene	ND	* F2	63.8	65.0	F2	ug/Kg	☼	102	69 - 134	22	20
Methylene Chloride	ND		63.8	76.0		ug/Kg	☼	119	63 - 130	2	20
4-Methyl-2-pentanone (MIBK)	ND		255	332		ug/Kg	☼	130	51 - 140	9	20
Naphthalene	ND	* F2	63.8	58.1	F2	ug/Kg	☼	91	45 - 146	39	20
N-Propylbenzene	ND	* F1 F2	63.8	73.6	F2	ug/Kg	☼	115	70 - 130	28	20
Styrene	ND		63.8	59.9		ug/Kg	☼	94	58 - 135	0	20
1,1,1,2-Tetrachloroethane	ND		63.8	69.8		ug/Kg	☼	109	64 - 133	6	20
1,1,1,2,2-Tetrachloroethane	ND	* F1	63.8	79.6		ug/Kg	☼	125	70 - 131	20	20
Tetrachloroethene	ND		63.8	58.5		ug/Kg	☼	92	67 - 130	3	20
Toluene	ND		63.8	71.6		ug/Kg	☼	112	70 - 130	10	20
1,2,3-Trichlorobenzene	ND	* F1 F2	63.8	44.7	F2	ug/Kg	☼	70	58 - 138	53	20
1,2,4-Trichlorobenzene	ND	* F1 F2	63.8	46.4	F2	ug/Kg	☼	73	49 - 144	42	20
1,1,1-Trichloroethane	ND		63.8	63.7		ug/Kg	☼	100	57 - 133	4	20
1,1,2-Trichloroethane	ND		63.8	67.1		ug/Kg	☼	105	68 - 132	5	20
Trichloroethene	ND		63.8	65.0		ug/Kg	☼	102	66 - 130	5	20
Trichlorofluoromethane	ND		63.8	67.2		ug/Kg	☼	105	61 - 130	3	20
1,2,3-Trichloropropane	ND	* F1 F2	63.8	91.7	F2	ug/Kg	☼	144	62 - 150	25	20
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		63.8	65.5		ug/Kg	☼	103	52 - 130	1	20
1,2,4-Trimethylbenzene	ND	* F2	63.8	68.2	F2	ug/Kg	☼	107	64 - 140	21	20
1,3,5-Trimethylbenzene	ND	* F1 F2	63.8	70.4	F2	ug/Kg	☼	110	67 - 134	26	20
Vinyl acetate	ND	F1 F2	63.8	ND	F1 F2	ug/Kg	☼	23	52 - 150	95	20
Vinyl chloride	ND		63.8	58.8		ug/Kg	☼	92	62 - 130	2	20
m-Xylene & p-Xylene	ND		63.8	63.8		ug/Kg	☼	100	70 - 130	6	20
o-Xylene	ND		63.8	62.0		ug/Kg	☼	97	68 - 130	4	20
2,2-Dichloropropane	ND		63.8	62.8		ug/Kg	☼	98	63 - 130	7	20

Surrogate	MSD	MSD	Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene	92		45 - 131
1,2-Dichloroethane-d4 (Surr)	99		60 - 140
Toluene-d8 (Surr)	98		58 - 140

**Lab Sample ID: MB 720-196326/4**

**Matrix: Solid**

**Analysis Batch: 196326**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Methyl tert-butyl ether	ND		5.0		ug/Kg			01/27/16 09:03	1

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# QC Sample Results

Client: Geologica Inc  
Project/Site: Pin High

TestAmerica Job ID: 720-69933-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 720-196326/4**  
**Matrix: Solid**  
**Analysis Batch: 196326**

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

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Acetone	ND		50		ug/Kg			01/27/16 09:03	1
Benzene	ND		5.0		ug/Kg			01/27/16 09:03	1
Dichlorobromomethane	ND		5.0		ug/Kg			01/27/16 09:03	1
Bromobenzene	ND		5.0		ug/Kg			01/27/16 09:03	1
Chlorobromomethane	ND		20		ug/Kg			01/27/16 09:03	1
Bromoform	ND		5.0		ug/Kg			01/27/16 09:03	1
Bromomethane	ND		10		ug/Kg			01/27/16 09:03	1
2-Butanone (MEK)	ND		50		ug/Kg			01/27/16 09:03	1
n-Butylbenzene	ND		5.0		ug/Kg			01/27/16 09:03	1
sec-Butylbenzene	ND		5.0		ug/Kg			01/27/16 09:03	1
tert-Butylbenzene	ND		5.0		ug/Kg			01/27/16 09:03	1
Carbon disulfide	ND		5.0		ug/Kg			01/27/16 09:03	1
Carbon tetrachloride	ND		5.0		ug/Kg			01/27/16 09:03	1
Chlorobenzene	ND		5.0		ug/Kg			01/27/16 09:03	1
Chloroethane	ND		10		ug/Kg			01/27/16 09:03	1
Chloroform	ND		5.0		ug/Kg			01/27/16 09:03	1
Chloromethane	ND		10		ug/Kg			01/27/16 09:03	1
2-Chlorotoluene	ND		5.0		ug/Kg			01/27/16 09:03	1
4-Chlorotoluene	ND		5.0		ug/Kg			01/27/16 09:03	1
Chlorodibromomethane	ND		5.0		ug/Kg			01/27/16 09:03	1
1,2-Dichlorobenzene	ND		5.0		ug/Kg			01/27/16 09:03	1
1,3-Dichlorobenzene	ND		5.0		ug/Kg			01/27/16 09:03	1
1,4-Dichlorobenzene	ND		5.0		ug/Kg			01/27/16 09:03	1
1,3-Dichloropropane	ND		5.0		ug/Kg			01/27/16 09:03	1
1,1-Dichloropropane	ND		5.0		ug/Kg			01/27/16 09:03	1
1,2-Dibromo-3-Chloropropane	ND		10		ug/Kg			01/27/16 09:03	1
Ethylene Dibromide	ND		5.0		ug/Kg			01/27/16 09:03	1
Dibromomethane	ND		10		ug/Kg			01/27/16 09:03	1
Dichlorodifluoromethane	ND		10		ug/Kg			01/27/16 09:03	1
1,1-Dichloroethane	ND		5.0		ug/Kg			01/27/16 09:03	1
1,2-Dichloroethane	ND		5.0		ug/Kg			01/27/16 09:03	1
1,1-Dichloroethene	ND		5.0		ug/Kg			01/27/16 09:03	1
cis-1,2-Dichloroethene	ND		5.0		ug/Kg			01/27/16 09:03	1
trans-1,2-Dichloroethene	ND		5.0		ug/Kg			01/27/16 09:03	1
1,2-Dichloropropane	ND		5.0		ug/Kg			01/27/16 09:03	1
cis-1,3-Dichloropropene	ND		5.0		ug/Kg			01/27/16 09:03	1
trans-1,3-Dichloropropene	ND		5.0		ug/Kg			01/27/16 09:03	1
Ethylbenzene	ND		5.0		ug/Kg			01/27/16 09:03	1
Hexachlorobutadiene	ND		5.0		ug/Kg			01/27/16 09:03	1
2-Hexanone	ND		50		ug/Kg			01/27/16 09:03	1
Isopropylbenzene	ND		5.0		ug/Kg			01/27/16 09:03	1
4-Isopropyltoluene	ND		5.0		ug/Kg			01/27/16 09:03	1
Methylene Chloride	ND		10		ug/Kg			01/27/16 09:03	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/Kg			01/27/16 09:03	1
Naphthalene	ND		10		ug/Kg			01/27/16 09:03	1
N-Propylbenzene	ND		5.0		ug/Kg			01/27/16 09:03	1
Styrene	ND		5.0		ug/Kg			01/27/16 09:03	1
1,1,1,2-Tetrachloroethane	ND		5.0		ug/Kg			01/27/16 09:03	1

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# QC Sample Results

Client: Geologica Inc  
Project/Site: Pin High

TestAmerica Job ID: 720-69933-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 720-196326/4**  
**Matrix: Solid**  
**Analysis Batch: 196326**

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		5.0		ug/Kg			01/27/16 09:03	1
Tetrachloroethene	ND		5.0		ug/Kg			01/27/16 09:03	1
Toluene	ND		5.0		ug/Kg			01/27/16 09:03	1
1,2,3-Trichlorobenzene	ND		5.0		ug/Kg			01/27/16 09:03	1
1,2,4-Trichlorobenzene	ND		5.0		ug/Kg			01/27/16 09:03	1
1,1,1-Trichloroethane	ND		5.0		ug/Kg			01/27/16 09:03	1
1,1,2-Trichloroethane	ND		5.0		ug/Kg			01/27/16 09:03	1
Trichloroethene	ND		5.0		ug/Kg			01/27/16 09:03	1
Trichlorofluoromethane	ND		5.0		ug/Kg			01/27/16 09:03	1
1,2,3-Trichloropropane	ND		5.0		ug/Kg			01/27/16 09:03	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0		ug/Kg			01/27/16 09:03	1
1,2,4-Trimethylbenzene	ND		5.0		ug/Kg			01/27/16 09:03	1
1,3,5-Trimethylbenzene	ND		5.0		ug/Kg			01/27/16 09:03	1
Vinyl acetate	ND		20		ug/Kg			01/27/16 09:03	1
Vinyl chloride	ND		5.0		ug/Kg			01/27/16 09:03	1
Xylenes, Total	ND		10		ug/Kg			01/27/16 09:03	1
2,2-Dichloropropane	ND		5.0		ug/Kg			01/27/16 09:03	1
Gasoline Range Organics (GRO) -C5-C12	ND		250		ug/Kg			01/27/16 09:03	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	98		45 - 131		01/27/16 09:03	1
1,2-Dichloroethane-d4 (Surr)	106		60 - 140		01/27/16 09:03	1
Toluene-d8 (Surr)	103		58 - 140		01/27/16 09:03	1

**Lab Sample ID: LCS 720-196326/5**  
**Matrix: Solid**  
**Analysis Batch: 196326**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methyl tert-butyl ether	50.0	52.9		ug/Kg		106	70 - 144
Acetone	200	217		ug/Kg		109	30 - 162
Benzene	50.0	51.7		ug/Kg		103	70 - 130
Dichlorobromomethane	50.0	52.3		ug/Kg		105	70 - 140
Bromobenzene	50.0	51.9		ug/Kg		104	70 - 130
Chlorobromomethane	50.0	51.6		ug/Kg		103	70 - 130
Bromoform	50.0	54.3		ug/Kg		109	59 - 158
Bromomethane	50.0	47.3		ug/Kg		95	59 - 132
2-Butanone (MEK)	200	207		ug/Kg		104	53 - 133
n-Butylbenzene	50.0	50.0		ug/Kg		100	70 - 142
sec-Butylbenzene	50.0	47.4		ug/Kg		95	70 - 136
tert-Butylbenzene	50.0	47.4		ug/Kg		95	70 - 130
Carbon disulfide	50.0	42.8		ug/Kg		86	60 - 140
Carbon tetrachloride	50.0	49.0		ug/Kg		98	70 - 142
Chlorobenzene	50.0	50.7		ug/Kg		101	70 - 130
Chloroethane	50.0	45.0		ug/Kg		90	65 - 130
Chloroform	50.0	46.5		ug/Kg		93	77 - 127
Chloromethane	50.0	43.2		ug/Kg		86	55 - 140

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# QC Sample Results

Client: Geologica Inc  
Project/Site: Pin High

TestAmerica Job ID: 720-69933-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 720-196326/5**  
**Matrix: Solid**  
**Analysis Batch: 196326**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Chlorotoluene	50.0	49.9		ug/Kg		100	70 - 138
4-Chlorotoluene	50.0	50.8		ug/Kg		102	70 - 136
Chlorodibromomethane	50.0	51.9		ug/Kg		104	70 - 146
1,2-Dichlorobenzene	50.0	51.1		ug/Kg		102	70 - 130
1,3-Dichlorobenzene	50.0	50.4		ug/Kg		101	70 - 131
1,4-Dichlorobenzene	50.0	50.7		ug/Kg		101	70 - 130
1,3-Dichloropropane	50.0	48.7		ug/Kg		97	70 - 140
1,1-Dichloropropene	50.0	48.9		ug/Kg		98	70 - 130
1,2-Dibromo-3-Chloropropane	50.0	45.6		ug/Kg		91	60 - 145
Ethylene Dibromide	50.0	50.9		ug/Kg		102	70 - 140
Dibromomethane	50.0	50.4		ug/Kg		101	70 - 139
Dichlorodifluoromethane	50.0	52.2		ug/Kg		104	37 - 158
1,1-Dichloroethane	50.0	48.2		ug/Kg		96	70 - 130
1,2-Dichloroethane	50.0	51.6		ug/Kg		103	70 - 130
1,1-Dichloroethene	50.0	41.5		ug/Kg		83	74 - 122
cis-1,2-Dichloroethene	50.0	48.5		ug/Kg		97	70 - 138
trans-1,2-Dichloroethene	50.0	47.7		ug/Kg		95	67 - 130
1,2-Dichloropropane	50.0	51.1		ug/Kg		102	73 - 127
cis-1,3-Dichloropropene	50.0	55.9		ug/Kg		112	68 - 147
trans-1,3-Dichloropropene	50.0	57.6		ug/Kg		115	70 - 155
Ethylbenzene	50.0	50.1		ug/Kg		100	80 - 137
Hexachlorobutadiene	50.0	51.0		ug/Kg		102	70 - 132
2-Hexanone	200	218		ug/Kg		109	44 - 133
Isopropylbenzene	50.0	47.4		ug/Kg		95	70 - 130
4-Isopropyltoluene	50.0	47.9		ug/Kg		96	70 - 133
Methylene Chloride	50.0	45.7		ug/Kg		91	70 - 134
4-Methyl-2-pentanone (MIBK)	200	243		ug/Kg		122	60 - 160
Naphthalene	50.0	49.5		ug/Kg		99	60 - 147
N-Propylbenzene	50.0	48.1		ug/Kg		96	70 - 130
Styrene	50.0	50.5		ug/Kg		101	70 - 130
1,1,1,2-Tetrachloroethane	50.0	56.0		ug/Kg		112	70 - 130
1,1,1,2,2-Tetrachloroethane	50.0	49.8		ug/Kg		100	70 - 146
Tetrachloroethene	50.0	49.7		ug/Kg		99	70 - 132
Toluene	50.0	49.9		ug/Kg		100	75 - 120
1,2,3-Trichlorobenzene	50.0	53.6		ug/Kg		107	60 - 140
1,2,4-Trichlorobenzene	50.0	56.5		ug/Kg		113	60 - 140
1,1,1-Trichloroethane	50.0	48.1		ug/Kg		96	70 - 130
1,1,2-Trichloroethane	50.0	52.8		ug/Kg		106	70 - 130
Trichloroethene	50.0	51.1		ug/Kg		102	70 - 133
Trichlorofluoromethane	50.0	48.2		ug/Kg		96	60 - 140
1,2,3-Trichloropropane	50.0	48.7		ug/Kg		97	70 - 146
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	43.5		ug/Kg		87	60 - 140
1,2,4-Trimethylbenzene	50.0	50.6		ug/Kg		101	70 - 130
1,3,5-Trimethylbenzene	50.0	50.2		ug/Kg		100	70 - 131
Vinyl acetate	50.0	45.1		ug/Kg		90	38 - 176
Vinyl chloride	50.0	46.0		ug/Kg		92	58 - 125
m-Xylene & p-Xylene	50.0	51.5		ug/Kg		103	70 - 146

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# QC Sample Results

Client: Geologica Inc  
Project/Site: Pin High

TestAmerica Job ID: 720-69933-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 720-196326/5**  
**Matrix: Solid**  
**Analysis Batch: 196326**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
o-Xylene	50.0	48.9		ug/Kg		98	70 - 140
2,2-Dichloropropane	50.0	49.9		ug/Kg		100	70 - 162

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene	108		45 - 131
1,2-Dichloroethane-d4 (Surr)	101		60 - 140
Toluene-d8 (Surr)	110		58 - 140

**Lab Sample ID: LCS 720-196326/7**  
**Matrix: Solid**  
**Analysis Batch: 196326**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO) -C5-C12	1000	1180		ug/Kg		118	61 - 128

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene	107		45 - 131
1,2-Dichloroethane-d4 (Surr)	99		60 - 140
Toluene-d8 (Surr)	111		58 - 140

**Lab Sample ID: LCSD 720-196326/6**  
**Matrix: Solid**  
**Analysis Batch: 196326**

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Methyl tert-butyl ether	50.0	52.1		ug/Kg		104	70 - 144	1	20
Acetone	200	180		ug/Kg		90	30 - 162	19	30
Benzene	50.0	52.4		ug/Kg		105	70 - 130	1	20
Dichlorobromomethane	50.0	51.1		ug/Kg		102	70 - 140	2	20
Bromobenzene	50.0	52.2		ug/Kg		104	70 - 130	1	20
Chlorobromomethane	50.0	51.8		ug/Kg		104	70 - 130	0	20
Bromoform	50.0	52.9		ug/Kg		106	59 - 158	3	20
Bromomethane	50.0	46.7		ug/Kg		93	59 - 132	1	20
2-Butanone (MEK)	200	206		ug/Kg		103	53 - 133	1	20
n-Butylbenzene	50.0	50.5		ug/Kg		101	70 - 142	1	20
sec-Butylbenzene	50.0	47.8		ug/Kg		96	70 - 136	1	20
tert-Butylbenzene	50.0	48.1		ug/Kg		96	70 - 130	1	20
Carbon disulfide	50.0	43.4		ug/Kg		87	60 - 140	1	20
Carbon tetrachloride	50.0	47.2		ug/Kg		94	70 - 142	4	20
Chlorobenzene	50.0	50.8		ug/Kg		102	70 - 130	0	20
Chloroethane	50.0	44.3		ug/Kg		89	65 - 130	1	20
Chloroform	50.0	45.5		ug/Kg		91	77 - 127	2	20
Chloromethane	50.0	42.2		ug/Kg		84	55 - 140	2	20
2-Chlorotoluene	50.0	50.7		ug/Kg		101	70 - 138	2	20
4-Chlorotoluene	50.0	51.0		ug/Kg		102	70 - 136	0	20
Chlorodibromomethane	50.0	49.7		ug/Kg		99	70 - 146	4	20
1,2-Dichlorobenzene	50.0	51.1		ug/Kg		102	70 - 130	0	20

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# QC Sample Results

Client: Geologica Inc  
Project/Site: Pin High

TestAmerica Job ID: 720-69933-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 720-196326/6

Matrix: Solid

Analysis Batch: 196326

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,3-Dichlorobenzene	50.0	50.4		ug/Kg		101	70 - 131	0	20
1,4-Dichlorobenzene	50.0	50.9		ug/Kg		102	70 - 130	0	20
1,3-Dichloropropane	50.0	47.6		ug/Kg		95	70 - 140	2	20
1,1-Dichloropropene	50.0	48.7		ug/Kg		97	70 - 130	0	20
1,2-Dibromo-3-Chloropropane	50.0	44.0		ug/Kg		88	60 - 145	4	20
Ethylene Dibromide	50.0	50.2		ug/Kg		100	70 - 140	1	20
Dibromomethane	50.0	49.4		ug/Kg		99	70 - 139	2	20
Dichlorodifluoromethane	50.0	49.8		ug/Kg		100	37 - 158	5	20
1,1-Dichloroethane	50.0	48.6		ug/Kg		97	70 - 130	1	20
1,2-Dichloroethane	50.0	49.4		ug/Kg		99	70 - 130	4	20
1,1-Dichloroethene	50.0	41.8		ug/Kg		84	74 - 122	1	20
cis-1,2-Dichloroethene	50.0	48.5		ug/Kg		97	70 - 138	0	20
trans-1,2-Dichloroethene	50.0	48.8		ug/Kg		98	67 - 130	2	20
1,2-Dichloropropane	50.0	52.2		ug/Kg		104	73 - 127	2	20
cis-1,3-Dichloropropene	50.0	55.6		ug/Kg		111	68 - 147	0	20
trans-1,3-Dichloropropene	50.0	56.6		ug/Kg		113	70 - 155	2	20
Ethylbenzene	50.0	49.7		ug/Kg		99	80 - 137	1	20
Hexachlorobutadiene	50.0	50.8		ug/Kg		102	70 - 132	0	20
2-Hexanone	200	209		ug/Kg		105	44 - 133	4	20
Isopropylbenzene	50.0	47.1		ug/Kg		94	70 - 130	1	20
4-Isopropyltoluene	50.0	48.4		ug/Kg		97	70 - 133	1	20
Methylene Chloride	50.0	45.8		ug/Kg		92	70 - 134	0	20
4-Methyl-2-pentanone (MIBK)	200	236		ug/Kg		118	60 - 160	3	20
Naphthalene	50.0	49.0		ug/Kg		98	60 - 147	1	20
N-Propylbenzene	50.0	48.7		ug/Kg		97	70 - 130	1	20
Styrene	50.0	50.5		ug/Kg		101	70 - 130	0	20
1,1,1,2-Tetrachloroethane	50.0	55.2		ug/Kg		110	70 - 130	1	20
1,1,1,2,2-Tetrachloroethane	50.0	49.2		ug/Kg		98	70 - 146	1	20
Tetrachloroethene	50.0	49.6		ug/Kg		99	70 - 132	0	20
Toluene	50.0	50.7		ug/Kg		101	75 - 120	2	20
1,2,3-Trichlorobenzene	50.0	53.8		ug/Kg		108	60 - 140	0	20
1,2,4-Trichlorobenzene	50.0	56.9		ug/Kg		114	60 - 140	1	20
1,1,1-Trichloroethane	50.0	46.4		ug/Kg		93	70 - 130	4	20
1,1,2-Trichloroethane	50.0	52.4		ug/Kg		105	70 - 130	1	20
Trichloroethene	50.0	50.7		ug/Kg		101	70 - 133	1	20
Trichlorofluoromethane	50.0	45.4		ug/Kg		91	60 - 140	6	20
1,2,3-Trichloropropane	50.0	47.3		ug/Kg		95	70 - 146	3	20
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	43.0		ug/Kg		86	60 - 140	1	20
1,2,4-Trimethylbenzene	50.0	50.9		ug/Kg		102	70 - 130	1	20
1,3,5-Trimethylbenzene	50.0	50.8		ug/Kg		102	70 - 131	1	20
Vinyl acetate	50.0	45.5		ug/Kg		91	38 - 176	1	20
Vinyl chloride	50.0	45.8		ug/Kg		92	58 - 125	0	20
m-Xylene & p-Xylene	50.0	51.0		ug/Kg		102	70 - 146	1	20
o-Xylene	50.0	48.3		ug/Kg		97	70 - 140	1	20
2,2-Dichloropropane	50.0	47.4		ug/Kg		95	70 - 162	5	20

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# QC Sample Results

Client: Geologica Inc  
Project/Site: Pin High

TestAmerica Job ID: 720-69933-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCSD 720-196326/6**  
**Matrix: Solid**  
**Analysis Batch: 196326**

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

<i>Surrogate</i>	<i>LCSD %Recovery</i>	<i>LCSD Qualifier</i>	<i>Limits</i>
4-Bromofluorobenzene	108		45 - 131
1,2-Dichloroethane-d4 (Surr)	96		60 - 140
Toluene-d8 (Surr)	111		58 - 140

**Lab Sample ID: LCSD 720-196326/8**  
**Matrix: Solid**  
**Analysis Batch: 196326**

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

<i>Analyte</i>	<i>Spike Added</i>	<i>LCSD Result</i>	<i>LCSD Qualifier</i>	<i>Unit</i>	<i>D</i>	<i>%Rec</i>	<i>%Rec. Limits</i>	<i>RPD</i>	<i>RPD Limit</i>
Gasoline Range Organics (GRO) -C5-C12	1000	1150		ug/Kg		115	61 - 128	3	20

<i>Surrogate</i>	<i>LCSD %Recovery</i>	<i>LCSD Qualifier</i>	<i>Limits</i>
4-Bromofluorobenzene	108		45 - 131
1,2-Dichloroethane-d4 (Surr)	100		60 - 140
Toluene-d8 (Surr)	111		58 - 140

**Lab Sample ID: MB 720-196408/4**  
**Matrix: Solid**  
**Analysis Batch: 196408**

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

<i>Analyte</i>	<i>MB Result</i>	<i>MB Qualifier</i>	<i>RL</i>	<i>MDL</i>	<i>Unit</i>	<i>D</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
Methyl tert-butyl ether	ND		5.0		ug/Kg			01/28/16 09:07	1
Acetone	ND		50		ug/Kg			01/28/16 09:07	1
Benzene	ND		5.0		ug/Kg			01/28/16 09:07	1
Dichlorobromomethane	ND		5.0		ug/Kg			01/28/16 09:07	1
Bromobenzene	ND		5.0		ug/Kg			01/28/16 09:07	1
Chlorobromomethane	ND		20		ug/Kg			01/28/16 09:07	1
Bromoform	ND		5.0		ug/Kg			01/28/16 09:07	1
Bromomethane	ND		10		ug/Kg			01/28/16 09:07	1
2-Butanone (MEK)	ND		50		ug/Kg			01/28/16 09:07	1
n-Butylbenzene	ND		5.0		ug/Kg			01/28/16 09:07	1
sec-Butylbenzene	ND		5.0		ug/Kg			01/28/16 09:07	1
tert-Butylbenzene	ND		5.0		ug/Kg			01/28/16 09:07	1
Carbon disulfide	ND		5.0		ug/Kg			01/28/16 09:07	1
Carbon tetrachloride	ND		5.0		ug/Kg			01/28/16 09:07	1
Chlorobenzene	ND		5.0		ug/Kg			01/28/16 09:07	1
Chloroethane	ND		10		ug/Kg			01/28/16 09:07	1
Chloroform	ND		5.0		ug/Kg			01/28/16 09:07	1
Chloromethane	ND		10		ug/Kg			01/28/16 09:07	1
2-Chlorotoluene	ND		5.0		ug/Kg			01/28/16 09:07	1
4-Chlorotoluene	ND		5.0		ug/Kg			01/28/16 09:07	1
Chlorodibromomethane	ND		5.0		ug/Kg			01/28/16 09:07	1
1,2-Dichlorobenzene	ND		5.0		ug/Kg			01/28/16 09:07	1
1,3-Dichlorobenzene	ND		5.0		ug/Kg			01/28/16 09:07	1
1,4-Dichlorobenzene	ND		5.0		ug/Kg			01/28/16 09:07	1
1,3-Dichloropropane	ND		5.0		ug/Kg			01/28/16 09:07	1
1,1-Dichloropropene	ND		5.0		ug/Kg			01/28/16 09:07	1

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# QC Sample Results

Client: Geologica Inc  
Project/Site: Pin High

TestAmerica Job ID: 720-69933-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 720-196408/4**  
**Matrix: Solid**  
**Analysis Batch: 196408**

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		10		ug/Kg			01/28/16 09:07	1
Ethylene Dibromide	ND		5.0		ug/Kg			01/28/16 09:07	1
Dibromomethane	ND		10		ug/Kg			01/28/16 09:07	1
Dichlorodifluoromethane	ND		10		ug/Kg			01/28/16 09:07	1
1,1-Dichloroethane	ND		5.0		ug/Kg			01/28/16 09:07	1
1,2-Dichloroethane	ND		5.0		ug/Kg			01/28/16 09:07	1
1,1-Dichloroethene	ND		5.0		ug/Kg			01/28/16 09:07	1
cis-1,2-Dichloroethene	ND		5.0		ug/Kg			01/28/16 09:07	1
trans-1,2-Dichloroethene	ND		5.0		ug/Kg			01/28/16 09:07	1
1,2-Dichloropropane	ND		5.0		ug/Kg			01/28/16 09:07	1
cis-1,3-Dichloropropene	ND		5.0		ug/Kg			01/28/16 09:07	1
trans-1,3-Dichloropropene	ND		5.0		ug/Kg			01/28/16 09:07	1
Ethylbenzene	ND		5.0		ug/Kg			01/28/16 09:07	1
Hexachlorobutadiene	ND		5.0		ug/Kg			01/28/16 09:07	1
2-Hexanone	ND		50		ug/Kg			01/28/16 09:07	1
Isopropylbenzene	ND		5.0		ug/Kg			01/28/16 09:07	1
4-Isopropyltoluene	ND		5.0		ug/Kg			01/28/16 09:07	1
Methylene Chloride	ND		10		ug/Kg			01/28/16 09:07	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/Kg			01/28/16 09:07	1
Naphthalene	ND		10		ug/Kg			01/28/16 09:07	1
N-Propylbenzene	ND		5.0		ug/Kg			01/28/16 09:07	1
Styrene	ND		5.0		ug/Kg			01/28/16 09:07	1
1,1,1,2-Tetrachloroethane	ND		5.0		ug/Kg			01/28/16 09:07	1
1,1,2,2-Tetrachloroethane	ND		5.0		ug/Kg			01/28/16 09:07	1
Tetrachloroethene	ND		5.0		ug/Kg			01/28/16 09:07	1
Toluene	ND		5.0		ug/Kg			01/28/16 09:07	1
1,2,3-Trichlorobenzene	ND		5.0		ug/Kg			01/28/16 09:07	1
1,2,4-Trichlorobenzene	ND		5.0		ug/Kg			01/28/16 09:07	1
1,1,1-Trichloroethane	ND		5.0		ug/Kg			01/28/16 09:07	1
1,1,2-Trichloroethane	ND		5.0		ug/Kg			01/28/16 09:07	1
Trichloroethene	ND		5.0		ug/Kg			01/28/16 09:07	1
Trichlorofluoromethane	ND		5.0		ug/Kg			01/28/16 09:07	1
1,2,3-Trichloropropane	ND		5.0		ug/Kg			01/28/16 09:07	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0		ug/Kg			01/28/16 09:07	1
1,2,4-Trimethylbenzene	ND		5.0		ug/Kg			01/28/16 09:07	1
1,3,5-Trimethylbenzene	ND		5.0		ug/Kg			01/28/16 09:07	1
Vinyl acetate	ND		20		ug/Kg			01/28/16 09:07	1
Vinyl chloride	ND		5.0		ug/Kg			01/28/16 09:07	1
Xylenes, Total	ND		10		ug/Kg			01/28/16 09:07	1
2,2-Dichloropropane	ND		5.0		ug/Kg			01/28/16 09:07	1
Gasoline Range Organics (GRO) -C5-C12	ND		250		ug/Kg			01/28/16 09:07	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	96		45 - 131		01/28/16 09:07	1
1,2-Dichloroethane-d4 (Surr)	97		60 - 140		01/28/16 09:07	1
Toluene-d8 (Surr)	99		58 - 140		01/28/16 09:07	1

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# QC Sample Results

Client: Geologica Inc  
Project/Site: Pin High

TestAmerica Job ID: 720-69933-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 720-196408/5**  
**Matrix: Solid**  
**Analysis Batch: 196408**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methyl tert-butyl ether	50.0	52.7		ug/Kg		105	70 - 144
Acetone	200	315		ug/Kg		157	30 - 162
Benzene	50.0	51.8		ug/Kg		104	70 - 130
Dichlorobromomethane	50.0	47.8		ug/Kg		96	70 - 140
Bromobenzene	50.0	48.2		ug/Kg		96	70 - 130
Chlorobromomethane	50.0	49.4		ug/Kg		99	70 - 130
Bromoform	50.0	55.8		ug/Kg		112	59 - 158
Bromomethane	50.0	44.9		ug/Kg		90	59 - 132
2-Butanone (MEK)	200	251		ug/Kg		125	53 - 133
n-Butylbenzene	50.0	47.3		ug/Kg		95	70 - 142
sec-Butylbenzene	50.0	47.8		ug/Kg		96	70 - 136
tert-Butylbenzene	50.0	50.2		ug/Kg		100	70 - 130
Carbon disulfide	50.0	48.4		ug/Kg		97	60 - 140
Carbon tetrachloride	50.0	48.0		ug/Kg		96	70 - 142
Chlorobenzene	50.0	51.4		ug/Kg		103	70 - 130
Chloroethane	50.0	44.4		ug/Kg		89	65 - 130
Chloroform	50.0	46.5		ug/Kg		93	77 - 127
Chloromethane	50.0	45.4		ug/Kg		91	55 - 140
2-Chlorotoluene	50.0	47.0		ug/Kg		94	70 - 138
4-Chlorotoluene	50.0	46.9		ug/Kg		94	70 - 136
Chlorodibromomethane	50.0	49.4		ug/Kg		99	70 - 146
1,2-Dichlorobenzene	50.0	47.3		ug/Kg		95	70 - 130
1,3-Dichlorobenzene	50.0	47.2		ug/Kg		94	70 - 131
1,4-Dichlorobenzene	50.0	47.8		ug/Kg		96	70 - 130
1,3-Dichloropropane	50.0	49.8		ug/Kg		100	70 - 140
1,1-Dichloropropene	50.0	48.4		ug/Kg		97	70 - 130
1,2-Dibromo-3-Chloropropane	50.0	50.2		ug/Kg		100	60 - 145
Ethylene Dibromide	50.0	51.2		ug/Kg		102	70 - 140
Dibromomethane	50.0	45.9		ug/Kg		92	70 - 139
Dichlorodifluoromethane	50.0	42.2		ug/Kg		84	37 - 158
1,1-Dichloroethane	50.0	50.2		ug/Kg		100	70 - 130
1,2-Dichloroethane	50.0	50.0		ug/Kg		100	70 - 130
1,1-Dichloroethene	50.0	46.4		ug/Kg		93	74 - 122
cis-1,2-Dichloroethene	50.0	46.6		ug/Kg		93	70 - 138
trans-1,2-Dichloroethene	50.0	50.8		ug/Kg		102	67 - 130
1,2-Dichloropropane	50.0	49.2		ug/Kg		98	73 - 127
cis-1,3-Dichloropropene	50.0	49.7		ug/Kg		99	68 - 147
trans-1,3-Dichloropropene	50.0	53.2		ug/Kg		106	70 - 155
Ethylbenzene	50.0	46.5		ug/Kg		93	80 - 137
Hexachlorobutadiene	50.0	48.6		ug/Kg		97	70 - 132
2-Hexanone	200	223		ug/Kg		111	44 - 133
Isopropylbenzene	50.0	48.2		ug/Kg		96	70 - 130
4-Isopropyltoluene	50.0	47.3		ug/Kg		95	70 - 133
Methylene Chloride	50.0	51.9		ug/Kg		104	70 - 134
4-Methyl-2-pentanone (MIBK)	200	237		ug/Kg		119	60 - 160
Naphthalene	50.0	49.5		ug/Kg		99	60 - 147
N-Propylbenzene	50.0	48.5		ug/Kg		97	70 - 130
Styrene	50.0	48.8		ug/Kg		98	70 - 130

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# QC Sample Results

Client: Geologica Inc  
Project/Site: Pin High

TestAmerica Job ID: 720-69933-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 720-196408/5**  
**Matrix: Solid**  
**Analysis Batch: 196408**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	50.0	49.3		ug/Kg		99	70 - 130
1,1,2,2-Tetrachloroethane	50.0	47.2		ug/Kg		94	70 - 146
Tetrachloroethene	50.0	50.0		ug/Kg		100	70 - 132
Toluene	50.0	49.2		ug/Kg		98	75 - 120
1,2,3-Trichlorobenzene	50.0	46.3		ug/Kg		93	60 - 140
1,2,4-Trichlorobenzene	50.0	49.6		ug/Kg		99	60 - 140
1,1,1-Trichloroethane	50.0	46.5		ug/Kg		93	70 - 130
1,1,2-Trichloroethane	50.0	51.5		ug/Kg		103	70 - 130
Trichloroethene	50.0	50.3		ug/Kg		101	70 - 133
Trichlorofluoromethane	50.0	49.9		ug/Kg		100	60 - 140
1,2,3-Trichloropropane	50.0	52.1		ug/Kg		104	70 - 146
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	47.8		ug/Kg		96	60 - 140
1,2,4-Trimethylbenzene	50.0	46.3		ug/Kg		93	70 - 130
1,3,5-Trimethylbenzene	50.0	46.6		ug/Kg		93	70 - 131
Vinyl acetate	50.0	51.1		ug/Kg		102	38 - 176
Vinyl chloride	50.0	40.9		ug/Kg		82	58 - 125
m-Xylene & p-Xylene	50.0	49.1		ug/Kg		98	70 - 146
o-Xylene	50.0	46.3		ug/Kg		93	70 - 140
2,2-Dichloropropane	50.0	49.0		ug/Kg		98	70 - 162

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene	104		45 - 131
1,2-Dichloroethane-d4 (Surr)	97		60 - 140
Toluene-d8 (Surr)	102		58 - 140

**Lab Sample ID: LCS 720-196408/7**  
**Matrix: Solid**  
**Analysis Batch: 196408**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO) -C5-C12	1000	1140		ug/Kg		114	61 - 128

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene	102		45 - 131
1,2-Dichloroethane-d4 (Surr)	103		60 - 140
Toluene-d8 (Surr)	102		58 - 140

**Lab Sample ID: LCSD 720-196408/6**  
**Matrix: Solid**  
**Analysis Batch: 196408**

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Methyl tert-butyl ether	50.0	49.6		ug/Kg		99	70 - 144	6	20
Acetone	200	281		ug/Kg		141	30 - 162	11	30
Benzene	50.0	51.3		ug/Kg		103	70 - 130	1	20
Dichlorobromomethane	50.0	47.1		ug/Kg		94	70 - 140	1	20

TestAmerica Pleasanton

# QC Sample Results

Client: Geologica Inc  
Project/Site: Pin High

TestAmerica Job ID: 720-69933-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 720-196408/6

Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 196408

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Bromobenzene	50.0	49.1		ug/Kg		98	70 - 130	2	20
Chlorobromomethane	50.0	48.4		ug/Kg		97	70 - 130	2	20
Bromoform	50.0	53.5		ug/Kg		107	59 - 158	4	20
Bromomethane	50.0	45.0		ug/Kg		90	59 - 132	0	20
2-Butanone (MEK)	200	225		ug/Kg		112	53 - 133	11	20
n-Butylbenzene	50.0	47.7		ug/Kg		95	70 - 142	1	20
sec-Butylbenzene	50.0	48.4		ug/Kg		97	70 - 136	1	20
tert-Butylbenzene	50.0	51.0		ug/Kg		102	70 - 130	2	20
Carbon disulfide	50.0	47.3		ug/Kg		95	60 - 140	2	20
Carbon tetrachloride	50.0	47.6		ug/Kg		95	70 - 142	1	20
Chlorobenzene	50.0	51.2		ug/Kg		102	70 - 130	0	20
Chloroethane	50.0	45.4		ug/Kg		91	65 - 130	2	20
Chloroform	50.0	45.9		ug/Kg		92	77 - 127	1	20
Chloromethane	50.0	44.4		ug/Kg		89	55 - 140	2	20
2-Chlorotoluene	50.0	47.8		ug/Kg		96	70 - 138	2	20
4-Chlorotoluene	50.0	47.6		ug/Kg		95	70 - 136	2	20
Chlorodibromomethane	50.0	47.7		ug/Kg		95	70 - 146	3	20
1,2-Dichlorobenzene	50.0	47.1		ug/Kg		94	70 - 130	0	20
1,3-Dichlorobenzene	50.0	47.6		ug/Kg		95	70 - 131	1	20
1,4-Dichlorobenzene	50.0	47.9		ug/Kg		96	70 - 130	0	20
1,3-Dichloropropane	50.0	47.9		ug/Kg		96	70 - 140	4	20
1,1-Dichloropropane	50.0	47.3		ug/Kg		95	70 - 130	2	20
1,2-Dibromo-3-Chloropropane	50.0	47.8		ug/Kg		96	60 - 145	5	20
Ethylene Dibromide	50.0	48.8		ug/Kg		98	70 - 140	5	20
Dibromomethane	50.0	44.2		ug/Kg		88	70 - 139	4	20
Dichlorodifluoromethane	50.0	42.1		ug/Kg		84	37 - 158	0	20
1,1-Dichloroethane	50.0	49.0		ug/Kg		98	70 - 130	2	20
1,2-Dichloroethane	50.0	48.9		ug/Kg		98	70 - 130	2	20
1,1-Dichloroethene	50.0	46.7		ug/Kg		93	74 - 122	0	20
cis-1,2-Dichloroethene	50.0	46.1		ug/Kg		92	70 - 138	1	20
trans-1,2-Dichloroethene	50.0	50.6		ug/Kg		101	67 - 130	0	20
1,2-Dichloropropane	50.0	49.3		ug/Kg		99	73 - 127	0	20
cis-1,3-Dichloropropene	50.0	49.0		ug/Kg		98	68 - 147	2	20
trans-1,3-Dichloropropene	50.0	51.9		ug/Kg		104	70 - 155	2	20
Ethylbenzene	50.0	46.7		ug/Kg		93	80 - 137	0	20
Hexachlorobutadiene	50.0	48.3		ug/Kg		97	70 - 132	1	20
2-Hexanone	200	202		ug/Kg		101	44 - 133	10	20
Isopropylbenzene	50.0	47.9		ug/Kg		96	70 - 130	1	20
4-Isopropyltoluene	50.0	47.8		ug/Kg		96	70 - 133	1	20
Methylene Chloride	50.0	50.7		ug/Kg		101	70 - 134	2	20
4-Methyl-2-pentanone (MIBK)	200	217		ug/Kg		109	60 - 160	9	20
Naphthalene	50.0	49.1		ug/Kg		98	60 - 147	1	20
N-Propylbenzene	50.0	49.3		ug/Kg		99	70 - 130	2	20
Styrene	50.0	48.5		ug/Kg		97	70 - 130	1	20
1,1,1,2-Tetrachloroethane	50.0	49.2		ug/Kg		98	70 - 130	0	20
1,1,1,2,2-Tetrachloroethane	50.0	45.9		ug/Kg		92	70 - 146	3	20
Tetrachloroethene	50.0	50.0		ug/Kg		100	70 - 132	0	20
Toluene	50.0	49.6		ug/Kg		99	75 - 120	1	20

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# QC Sample Results

Client: Geologica Inc  
Project/Site: Pin High

TestAmerica Job ID: 720-69933-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCSD 720-196408/6**  
**Matrix: Solid**  
**Analysis Batch: 196408**

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2,3-Trichlorobenzene	50.0	46.7		ug/Kg		93	60 - 140	1	20
1,2,4-Trichlorobenzene	50.0	49.1		ug/Kg		98	60 - 140	1	20
1,1,1-Trichloroethane	50.0	46.2		ug/Kg		92	70 - 130	1	20
1,1,2-Trichloroethane	50.0	49.6		ug/Kg		99	70 - 130	4	20
Trichloroethene	50.0	50.7		ug/Kg		101	70 - 133	1	20
Trichlorofluoromethane	50.0	49.8		ug/Kg		100	60 - 140	0	20
1,2,3-Trichloropropane	50.0	49.8		ug/Kg		100	70 - 146	4	20
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	47.7		ug/Kg		95	60 - 140	0	20
1,2,4-Trimethylbenzene	50.0	46.7		ug/Kg		93	70 - 130	1	20
1,3,5-Trimethylbenzene	50.0	47.1		ug/Kg		94	70 - 131	1	20
Vinyl acetate	50.0	48.5		ug/Kg		97	38 - 176	5	20
Vinyl chloride	50.0	41.1		ug/Kg		82	58 - 125	1	20
m-Xylene & p-Xylene	50.0	48.8		ug/Kg		98	70 - 146	1	20
o-Xylene	50.0	46.5		ug/Kg		93	70 - 140	0	20
2,2-Dichloropropane	50.0	49.2		ug/Kg		98	70 - 162	0	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene	102		45 - 131
1,2-Dichloroethane-d4 (Surr)	95		60 - 140
Toluene-d8 (Surr)	103		58 - 140

**Lab Sample ID: LCSD 720-196408/8**  
**Matrix: Solid**  
**Analysis Batch: 196408**

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C5-C12	1000	1100		ug/Kg		110	61 - 128	3	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene	103		45 - 131
1,2-Dichloroethane-d4 (Surr)	100		60 - 140
Toluene-d8 (Surr)	102		58 - 140

**Lab Sample ID: MB 720-196468/4**  
**Matrix: Solid**  
**Analysis Batch: 196468**

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		5.0		ug/Kg			01/28/16 19:00	1
Acetone	ND		50		ug/Kg			01/28/16 19:00	1
Benzene	ND		5.0		ug/Kg			01/28/16 19:00	1
Dichlorobromomethane	ND		5.0		ug/Kg			01/28/16 19:00	1
Bromobenzene	ND		5.0		ug/Kg			01/28/16 19:00	1
Chlorobromomethane	ND		20		ug/Kg			01/28/16 19:00	1
Bromoform	ND		5.0		ug/Kg			01/28/16 19:00	1
Bromomethane	ND		10		ug/Kg			01/28/16 19:00	1

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# QC Sample Results

Client: Geologica Inc  
Project/Site: Pin High

TestAmerica Job ID: 720-69933-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 720-196468/4**  
**Matrix: Solid**  
**Analysis Batch: 196468**

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone (MEK)	ND		50		ug/Kg			01/28/16 19:00	1
n-Butylbenzene	ND		5.0		ug/Kg			01/28/16 19:00	1
sec-Butylbenzene	ND		5.0		ug/Kg			01/28/16 19:00	1
tert-Butylbenzene	ND		5.0		ug/Kg			01/28/16 19:00	1
Carbon disulfide	ND		5.0		ug/Kg			01/28/16 19:00	1
Carbon tetrachloride	ND		5.0		ug/Kg			01/28/16 19:00	1
Chlorobenzene	ND		5.0		ug/Kg			01/28/16 19:00	1
Chloroethane	ND		10		ug/Kg			01/28/16 19:00	1
Chloroform	ND		5.0		ug/Kg			01/28/16 19:00	1
Chloromethane	ND		10		ug/Kg			01/28/16 19:00	1
2-Chlorotoluene	ND		5.0		ug/Kg			01/28/16 19:00	1
4-Chlorotoluene	ND		5.0		ug/Kg			01/28/16 19:00	1
Chlorodibromomethane	ND		5.0		ug/Kg			01/28/16 19:00	1
1,2-Dichlorobenzene	ND		5.0		ug/Kg			01/28/16 19:00	1
1,3-Dichlorobenzene	ND		5.0		ug/Kg			01/28/16 19:00	1
1,4-Dichlorobenzene	ND		5.0		ug/Kg			01/28/16 19:00	1
1,3-Dichloropropane	ND		5.0		ug/Kg			01/28/16 19:00	1
1,1-Dichloropropane	ND		5.0		ug/Kg			01/28/16 19:00	1
1,2-Dibromo-3-Chloropropane	ND		10		ug/Kg			01/28/16 19:00	1
Ethylene Dibromide	ND		5.0		ug/Kg			01/28/16 19:00	1
Dibromomethane	ND		10		ug/Kg			01/28/16 19:00	1
Dichlorodifluoromethane	ND		10		ug/Kg			01/28/16 19:00	1
1,1-Dichloroethane	ND		5.0		ug/Kg			01/28/16 19:00	1
1,2-Dichloroethane	ND		5.0		ug/Kg			01/28/16 19:00	1
1,1-Dichloroethene	ND		5.0		ug/Kg			01/28/16 19:00	1
cis-1,2-Dichloroethene	ND		5.0		ug/Kg			01/28/16 19:00	1
trans-1,2-Dichloroethene	ND		5.0		ug/Kg			01/28/16 19:00	1
1,2-Dichloropropane	ND		5.0		ug/Kg			01/28/16 19:00	1
cis-1,3-Dichloropropene	ND		5.0		ug/Kg			01/28/16 19:00	1
trans-1,3-Dichloropropene	ND		5.0		ug/Kg			01/28/16 19:00	1
Ethylbenzene	ND		5.0		ug/Kg			01/28/16 19:00	1
Hexachlorobutadiene	ND		5.0		ug/Kg			01/28/16 19:00	1
2-Hexanone	ND		50		ug/Kg			01/28/16 19:00	1
Isopropylbenzene	ND		5.0		ug/Kg			01/28/16 19:00	1
4-Isopropyltoluene	ND		5.0		ug/Kg			01/28/16 19:00	1
Methylene Chloride	ND		10		ug/Kg			01/28/16 19:00	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/Kg			01/28/16 19:00	1
Naphthalene	ND		10		ug/Kg			01/28/16 19:00	1
N-Propylbenzene	ND		5.0		ug/Kg			01/28/16 19:00	1
Styrene	ND		5.0		ug/Kg			01/28/16 19:00	1
1,1,1,2-Tetrachloroethane	ND		5.0		ug/Kg			01/28/16 19:00	1
1,1,2,2-Tetrachloroethane	ND		5.0		ug/Kg			01/28/16 19:00	1
Tetrachloroethene	ND		5.0		ug/Kg			01/28/16 19:00	1
Toluene	ND		5.0		ug/Kg			01/28/16 19:00	1
1,2,3-Trichlorobenzene	ND		5.0		ug/Kg			01/28/16 19:00	1
1,2,4-Trichlorobenzene	ND		5.0		ug/Kg			01/28/16 19:00	1
1,1,1-Trichloroethane	ND		5.0		ug/Kg			01/28/16 19:00	1
1,1,2-Trichloroethane	ND		5.0		ug/Kg			01/28/16 19:00	1

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# QC Sample Results

Client: Geologica Inc  
Project/Site: Pin High

TestAmerica Job ID: 720-69933-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 720-196468/4**  
**Matrix: Solid**  
**Analysis Batch: 196468**

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	ND		5.0		ug/Kg			01/28/16 19:00	1
Trichlorofluoromethane	ND		5.0		ug/Kg			01/28/16 19:00	1
1,2,3-Trichloropropane	ND		5.0		ug/Kg			01/28/16 19:00	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0		ug/Kg			01/28/16 19:00	1
1,2,4-Trimethylbenzene	ND		5.0		ug/Kg			01/28/16 19:00	1
1,3,5-Trimethylbenzene	ND		5.0		ug/Kg			01/28/16 19:00	1
Vinyl acetate	ND		20		ug/Kg			01/28/16 19:00	1
Vinyl chloride	ND		5.0		ug/Kg			01/28/16 19:00	1
Xylenes, Total	ND		10		ug/Kg			01/28/16 19:00	1
2,2-Dichloropropane	ND		5.0		ug/Kg			01/28/16 19:00	1
Gasoline Range Organics (GRO) -C5-C12	ND		250		ug/Kg			01/28/16 19:00	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	98		45 - 131		01/28/16 19:00	1
1,2-Dichloroethane-d4 (Surr)	102		60 - 140		01/28/16 19:00	1
Toluene-d8 (Surr)	103		58 - 140		01/28/16 19:00	1

**Lab Sample ID: LCS 720-196468/5**  
**Matrix: Solid**  
**Analysis Batch: 196468**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methyl tert-butyl ether	50.0	56.9		ug/Kg		114	70 - 144
Acetone	200	214		ug/Kg		107	30 - 162
Benzene	50.0	55.5		ug/Kg		111	70 - 130
Dichlorobromomethane	50.0	55.2		ug/Kg		110	70 - 140
Bromobenzene	50.0	56.2		ug/Kg		112	70 - 130
Chlorobromomethane	50.0	55.8		ug/Kg		112	70 - 130
Bromoform	50.0	57.9		ug/Kg		116	59 - 158
Bromomethane	50.0	46.4		ug/Kg		93	59 - 132
2-Butanone (MEK)	200	228		ug/Kg		114	53 - 133
n-Butylbenzene	50.0	51.2		ug/Kg		102	70 - 142
sec-Butylbenzene	50.0	50.2		ug/Kg		100	70 - 136
tert-Butylbenzene	50.0	50.4		ug/Kg		101	70 - 130
Carbon disulfide	50.0	44.8		ug/Kg		90	60 - 140
Carbon tetrachloride	50.0	49.7		ug/Kg		99	70 - 142
Chlorobenzene	50.0	53.8		ug/Kg		108	70 - 130
Chloroethane	50.0	45.1		ug/Kg		90	65 - 130
Chloroform	50.0	49.1		ug/Kg		98	77 - 127
Chloromethane	50.0	40.8		ug/Kg		82	55 - 140
2-Chlorotoluene	50.0	53.7		ug/Kg		107	70 - 138
4-Chlorotoluene	50.0	53.5		ug/Kg		107	70 - 136
Chlorodibromomethane	50.0	55.2		ug/Kg		110	70 - 146
1,2-Dichlorobenzene	50.0	55.1		ug/Kg		110	70 - 130
1,3-Dichlorobenzene	50.0	53.1		ug/Kg		106	70 - 131
1,4-Dichlorobenzene	50.0	54.1		ug/Kg		108	70 - 130
1,3-Dichloropropane	50.0	52.7		ug/Kg		105	70 - 140

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# QC Sample Results

Client: Geologica Inc  
Project/Site: Pin High

TestAmerica Job ID: 720-69933-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 720-196468/5**  
**Matrix: Solid**  
**Analysis Batch: 196468**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloropropene	50.0	51.1		ug/Kg		102	70 - 130
1,2-Dibromo-3-Chloropropane	50.0	49.3		ug/Kg		99	60 - 145
Ethylene Dibromide	50.0	55.2		ug/Kg		110	70 - 140
Dibromomethane	50.0	54.3		ug/Kg		109	70 - 139
Dichlorodifluoromethane	50.0	40.5		ug/Kg		81	37 - 158
1,1-Dichloroethane	50.0	51.4		ug/Kg		103	70 - 130
1,2-Dichloroethane	50.0	54.4		ug/Kg		109	70 - 130
1,1-Dichloroethene	50.0	43.8		ug/Kg		88	74 - 122
cis-1,2-Dichloroethene	50.0	52.4		ug/Kg		105	70 - 138
trans-1,2-Dichloroethene	50.0	51.1		ug/Kg		102	67 - 130
1,2-Dichloropropane	50.0	55.5		ug/Kg		111	73 - 127
cis-1,3-Dichloropropene	50.0	59.9		ug/Kg		120	68 - 147
trans-1,3-Dichloropropene	50.0	61.9		ug/Kg		124	70 - 155
Ethylbenzene	50.0	52.5		ug/Kg		105	80 - 137
Hexachlorobutadiene	50.0	51.5		ug/Kg		103	70 - 132
2-Hexanone	200	236		ug/Kg		118	44 - 133
Isopropylbenzene	50.0	49.6		ug/Kg		99	70 - 130
4-Isopropyltoluene	50.0	49.9		ug/Kg		100	70 - 133
Methylene Chloride	50.0	52.6		ug/Kg		105	70 - 134
4-Methyl-2-pentanone (MIBK)	200	265		ug/Kg		133	60 - 160
Naphthalene	50.0	52.8		ug/Kg		106	60 - 147
N-Propylbenzene	50.0	50.9		ug/Kg		102	70 - 130
Styrene	50.0	53.3		ug/Kg		107	70 - 130
1,1,1,2-Tetrachloroethane	50.0	59.5		ug/Kg		119	70 - 130
1,1,1,2,2-Tetrachloroethane	50.0	55.6		ug/Kg		111	70 - 146
Tetrachloroethene	50.0	51.8		ug/Kg		104	70 - 132
Toluene	50.0	53.1		ug/Kg		106	75 - 120
1,2,3-Trichlorobenzene	50.0	55.8		ug/Kg		112	60 - 140
1,2,4-Trichlorobenzene	50.0	57.0		ug/Kg		114	60 - 140
1,1,1-Trichloroethane	50.0	49.5		ug/Kg		99	70 - 130
1,1,2-Trichloroethane	50.0	57.3		ug/Kg		115	70 - 130
Trichloroethene	50.0	53.7		ug/Kg		107	70 - 133
Trichlorofluoromethane	50.0	45.0		ug/Kg		90	60 - 140
1,2,3-Trichloropropane	50.0	53.4		ug/Kg		107	70 - 146
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	44.7		ug/Kg		89	60 - 140
1,2,4-Trimethylbenzene	50.0	53.1		ug/Kg		106	70 - 130
1,3,5-Trimethylbenzene	50.0	53.1		ug/Kg		106	70 - 131
Vinyl acetate	50.0	47.5		ug/Kg		95	38 - 176
Vinyl chloride	50.0	43.5		ug/Kg		87	58 - 125
m-Xylene & p-Xylene	50.0	53.4		ug/Kg		107	70 - 146
o-Xylene	50.0	51.1		ug/Kg		102	70 - 140
2,2-Dichloropropane	50.0	51.4		ug/Kg		103	70 - 162

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene	108		45 - 131
1,2-Dichloroethane-d4 (Surr)	98		60 - 140
Toluene-d8 (Surr)	111		58 - 140

TestAmerica Pleasanton

# QC Sample Results

Client: Geologica Inc  
Project/Site: Pin High

TestAmerica Job ID: 720-69933-1

**Lab Sample ID: LCS 720-196468/7**

**Matrix: Solid**

**Analysis Batch: 196468**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO) -C5-C12	1000	1240		ug/Kg		124	61 - 128
<b>LCS LCS</b>							
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				
4-Bromofluorobenzene	107		45 - 131				
1,2-Dichloroethane-d4 (Surr)	102		60 - 140				
Toluene-d8 (Surr)	111		58 - 140				

**Lab Sample ID: LCSD 720-196468/6**

**Matrix: Solid**

**Analysis Batch: 196468**

**Client Sample ID: Lab Control Sample Dup**

**Prep Type: Total/NA**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Methyl tert-butyl ether	50.0	56.7		ug/Kg		113	70 - 144	0	20
Acetone	200	221		ug/Kg		110	30 - 162	3	30
Benzene	50.0	55.4		ug/Kg		111	70 - 130	0	20
Dichlorobromomethane	50.0	54.4		ug/Kg		109	70 - 140	1	20
Bromobenzene	50.0	55.6		ug/Kg		111	70 - 130	1	20
Chlorobromomethane	50.0	55.2		ug/Kg		110	70 - 130	1	20
Bromoform	50.0	57.5		ug/Kg		115	59 - 158	1	20
Bromomethane	50.0	47.3		ug/Kg		95	59 - 132	2	20
2-Butanone (MEK)	200	229		ug/Kg		114	53 - 133	0	20
n-Butylbenzene	50.0	51.1		ug/Kg		102	70 - 142	0	20
sec-Butylbenzene	50.0	49.6		ug/Kg		99	70 - 136	1	20
tert-Butylbenzene	50.0	49.9		ug/Kg		100	70 - 130	1	20
Carbon disulfide	50.0	45.2		ug/Kg		90	60 - 140	1	20
Carbon tetrachloride	50.0	48.6		ug/Kg		97	70 - 142	2	20
Chlorobenzene	50.0	54.1		ug/Kg		108	70 - 130	0	20
Chloroethane	50.0	45.9		ug/Kg		92	65 - 130	2	20
Chloroform	50.0	48.2		ug/Kg		96	77 - 127	2	20
Chloromethane	50.0	42.2		ug/Kg		84	55 - 140	3	20
2-Chlorotoluene	50.0	53.0		ug/Kg		106	70 - 138	1	20
4-Chlorotoluene	50.0	53.3		ug/Kg		107	70 - 136	0	20
Chlorodibromomethane	50.0	53.7		ug/Kg		107	70 - 146	3	20
1,2-Dichlorobenzene	50.0	54.7		ug/Kg		109	70 - 130	1	20
1,3-Dichlorobenzene	50.0	53.4		ug/Kg		107	70 - 131	1	20
1,4-Dichlorobenzene	50.0	53.5		ug/Kg		107	70 - 130	1	20
1,3-Dichloropropane	50.0	51.6		ug/Kg		103	70 - 140	2	20
1,1-Dichloropropene	50.0	50.7		ug/Kg		101	70 - 130	1	20
1,2-Dibromo-3-Chloropropane	50.0	48.1		ug/Kg		96	60 - 145	2	20
Ethylene Dibromide	50.0	53.4		ug/Kg		107	70 - 140	3	20
Dibromomethane	50.0	53.0		ug/Kg		106	70 - 139	2	20
Dichlorodifluoromethane	50.0	40.7		ug/Kg		81	37 - 158	0	20
1,1-Dichloroethane	50.0	51.0		ug/Kg		102	70 - 130	1	20
1,2-Dichloroethane	50.0	52.7		ug/Kg		105	70 - 130	3	20
1,1-Dichloroethene	50.0	43.7		ug/Kg		87	74 - 122	0	20
cis-1,2-Dichloroethene	50.0	51.3		ug/Kg		103	70 - 138	2	20
trans-1,2-Dichloroethene	50.0	51.1		ug/Kg		102	67 - 130	0	20
1,2-Dichloropropane	50.0	55.8		ug/Kg		112	73 - 127	1	20
cis-1,3-Dichloropropene	50.0	59.4		ug/Kg		119	68 - 147	1	20

TestAmerica Pleasanton

# QC Sample Results

Client: Geologica Inc  
Project/Site: Pin High

TestAmerica Job ID: 720-69933-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCSD 720-196468/6**  
**Matrix: Solid**  
**Analysis Batch: 196468**

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
trans-1,3-Dichloropropene	50.0	60.8		ug/Kg		122	70 - 155	2	20
Ethylbenzene	50.0	52.3		ug/Kg		105	80 - 137	0	20
Hexachlorobutadiene	50.0	51.2		ug/Kg		102	70 - 132	1	20
2-Hexanone	200	233		ug/Kg		117	44 - 133	1	20
Isopropylbenzene	50.0	49.4		ug/Kg		99	70 - 130	1	20
4-Isopropyltoluene	50.0	49.6		ug/Kg		99	70 - 133	1	20
Methylene Chloride	50.0	52.2		ug/Kg		104	70 - 134	1	20
4-Methyl-2-pentanone (MIBK)	200	261		ug/Kg		131	60 - 160	2	20
Naphthalene	50.0	53.1		ug/Kg		106	60 - 147	1	20
N-Propylbenzene	50.0	50.8		ug/Kg		102	70 - 130	0	20
Styrene	50.0	53.8		ug/Kg		108	70 - 130	1	20
1,1,1,2-Tetrachloroethane	50.0	59.0		ug/Kg		118	70 - 130	1	20
1,1,2,2-Tetrachloroethane	50.0	54.1		ug/Kg		108	70 - 146	3	20
Tetrachloroethene	50.0	52.5		ug/Kg		105	70 - 132	1	20
Toluene	50.0	53.7		ug/Kg		107	75 - 120	1	20
1,2,3-Trichlorobenzene	50.0	56.7		ug/Kg		113	60 - 140	1	20
1,2,4-Trichlorobenzene	50.0	58.5		ug/Kg		117	60 - 140	3	20
1,1,1-Trichloroethane	50.0	48.5		ug/Kg		97	70 - 130	2	20
1,1,2-Trichloroethane	50.0	56.7		ug/Kg		113	70 - 130	1	20
Trichloroethene	50.0	53.9		ug/Kg		108	70 - 133	0	20
Trichlorofluoromethane	50.0	45.1		ug/Kg		90	60 - 140	0	20
1,2,3-Trichloropropane	50.0	51.8		ug/Kg		104	70 - 146	3	20
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	44.9		ug/Kg		90	60 - 140	0	20
1,2,4-Trimethylbenzene	50.0	53.0		ug/Kg		106	70 - 130	0	20
1,3,5-Trimethylbenzene	50.0	52.6		ug/Kg		105	70 - 131	1	20
Vinyl acetate	50.0	48.1		ug/Kg		96	38 - 176	1	20
Vinyl chloride	50.0	44.5		ug/Kg		89	58 - 125	2	20
m-Xylene & p-Xylene	50.0	53.3		ug/Kg		107	70 - 146	0	20
o-Xylene	50.0	51.2		ug/Kg		102	70 - 140	0	20
2,2-Dichloropropane	50.0	49.0		ug/Kg		98	70 - 162	5	20

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
4-Bromofluorobenzene	107		45 - 131
1,2-Dichloroethane-d4 (Surr)	95		60 - 140
Toluene-d8 (Surr)	111		58 - 140

**Lab Sample ID: LCSD 720-196468/8**  
**Matrix: Solid**  
**Analysis Batch: 196468**

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C5-C12	1000	1240		ug/Kg		124	61 - 128	1	20

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
4-Bromofluorobenzene	108		45 - 131
1,2-Dichloroethane-d4 (Surr)	98		60 - 140

TestAmerica Pleasanton

# QC Sample Results

Client: Geologica Inc  
Project/Site: Pin High

TestAmerica Job ID: 720-69933-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 720-196468/8  
Matrix: Solid  
Analysis Batch: 196468

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

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Toluene-d8 (Surr)	110		58 - 140

Lab Sample ID: MB 720-196552/4  
Matrix: Solid  
Analysis Batch: 196552

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		5.0		ug/Kg			01/29/16 19:03	1
Acetone	ND		50		ug/Kg			01/29/16 19:03	1
Benzene	ND		5.0		ug/Kg			01/29/16 19:03	1
Dichlorobromomethane	ND		5.0		ug/Kg			01/29/16 19:03	1
Bromobenzene	ND		5.0		ug/Kg			01/29/16 19:03	1
Chlorobromomethane	ND		20		ug/Kg			01/29/16 19:03	1
Bromoform	ND		5.0		ug/Kg			01/29/16 19:03	1
Bromomethane	ND		10		ug/Kg			01/29/16 19:03	1
2-Butanone (MEK)	ND		50		ug/Kg			01/29/16 19:03	1
n-Butylbenzene	ND		5.0		ug/Kg			01/29/16 19:03	1
sec-Butylbenzene	ND		5.0		ug/Kg			01/29/16 19:03	1
tert-Butylbenzene	ND		5.0		ug/Kg			01/29/16 19:03	1
Carbon disulfide	ND		5.0		ug/Kg			01/29/16 19:03	1
Carbon tetrachloride	ND		5.0		ug/Kg			01/29/16 19:03	1
Chlorobenzene	ND		5.0		ug/Kg			01/29/16 19:03	1
Chloroethane	ND		10		ug/Kg			01/29/16 19:03	1
Chloroform	ND		5.0		ug/Kg			01/29/16 19:03	1
Chloromethane	ND		10		ug/Kg			01/29/16 19:03	1
2-Chlorotoluene	ND		5.0		ug/Kg			01/29/16 19:03	1
4-Chlorotoluene	ND		5.0		ug/Kg			01/29/16 19:03	1
Chlorodibromomethane	ND		5.0		ug/Kg			01/29/16 19:03	1
1,2-Dichlorobenzene	ND		5.0		ug/Kg			01/29/16 19:03	1
1,3-Dichlorobenzene	ND		5.0		ug/Kg			01/29/16 19:03	1
1,4-Dichlorobenzene	ND		5.0		ug/Kg			01/29/16 19:03	1
1,3-Dichloropropane	ND		5.0		ug/Kg			01/29/16 19:03	1
1,1-Dichloropropene	ND		5.0		ug/Kg			01/29/16 19:03	1
1,2-Dibromo-3-Chloropropane	ND		10		ug/Kg			01/29/16 19:03	1
Ethylene Dibromide	ND		5.0		ug/Kg			01/29/16 19:03	1
Dibromomethane	ND		10		ug/Kg			01/29/16 19:03	1
Dichlorodifluoromethane	ND		10		ug/Kg			01/29/16 19:03	1
1,1-Dichloroethane	ND		5.0		ug/Kg			01/29/16 19:03	1
1,2-Dichloroethane	ND		5.0		ug/Kg			01/29/16 19:03	1
1,1-Dichloroethene	ND		5.0		ug/Kg			01/29/16 19:03	1
cis-1,2-Dichloroethene	ND		5.0		ug/Kg			01/29/16 19:03	1
trans-1,2-Dichloroethene	ND		5.0		ug/Kg			01/29/16 19:03	1
1,2-Dichloropropane	ND		5.0		ug/Kg			01/29/16 19:03	1
cis-1,3-Dichloropropene	ND		5.0		ug/Kg			01/29/16 19:03	1
trans-1,3-Dichloropropene	ND		5.0		ug/Kg			01/29/16 19:03	1
Ethylbenzene	ND		5.0		ug/Kg			01/29/16 19:03	1
Hexachlorobutadiene	ND		5.0		ug/Kg			01/29/16 19:03	1
2-Hexanone	ND		50		ug/Kg			01/29/16 19:03	1

TestAmerica Pleasanton

# QC Sample Results

Client: Geologica Inc  
Project/Site: Pin High

TestAmerica Job ID: 720-69933-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 720-196552/4**  
**Matrix: Solid**  
**Analysis Batch: 196552**

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	ND		5.0		ug/Kg			01/29/16 19:03	1
4-Isopropyltoluene	ND		5.0		ug/Kg			01/29/16 19:03	1
Methylene Chloride	ND		10		ug/Kg			01/29/16 19:03	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/Kg			01/29/16 19:03	1
Naphthalene	ND		10		ug/Kg			01/29/16 19:03	1
N-Propylbenzene	ND		5.0		ug/Kg			01/29/16 19:03	1
Styrene	ND		5.0		ug/Kg			01/29/16 19:03	1
1,1,1,2-Tetrachloroethane	ND		5.0		ug/Kg			01/29/16 19:03	1
1,1,2,2-Tetrachloroethane	ND		5.0		ug/Kg			01/29/16 19:03	1
Tetrachloroethene	ND		5.0		ug/Kg			01/29/16 19:03	1
Toluene	ND		5.0		ug/Kg			01/29/16 19:03	1
1,2,3-Trichlorobenzene	ND		5.0		ug/Kg			01/29/16 19:03	1
1,2,4-Trichlorobenzene	ND		5.0		ug/Kg			01/29/16 19:03	1
1,1,1-Trichloroethane	ND		5.0		ug/Kg			01/29/16 19:03	1
1,1,2-Trichloroethane	ND		5.0		ug/Kg			01/29/16 19:03	1
Trichloroethene	ND		5.0		ug/Kg			01/29/16 19:03	1
Trichlorofluoromethane	ND		5.0		ug/Kg			01/29/16 19:03	1
1,2,3-Trichloropropane	ND		5.0		ug/Kg			01/29/16 19:03	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0		ug/Kg			01/29/16 19:03	1
1,2,4-Trimethylbenzene	ND		5.0		ug/Kg			01/29/16 19:03	1
1,3,5-Trimethylbenzene	ND		5.0		ug/Kg			01/29/16 19:03	1
Vinyl acetate	ND		20		ug/Kg			01/29/16 19:03	1
Vinyl chloride	ND		5.0		ug/Kg			01/29/16 19:03	1
Xylenes, Total	ND		10		ug/Kg			01/29/16 19:03	1
2,2-Dichloropropane	ND		5.0		ug/Kg			01/29/16 19:03	1
Gasoline Range Organics (GRO) -C5-C12	ND		250		ug/Kg			01/29/16 19:03	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	97		45 - 131		01/29/16 19:03	1
1,2-Dichloroethane-d4 (Surr)	113		60 - 140		01/29/16 19:03	1
Toluene-d8 (Surr)	101		58 - 140		01/29/16 19:03	1

**Lab Sample ID: LCS 720-196552/5**  
**Matrix: Solid**  
**Analysis Batch: 196552**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methyl tert-butyl ether	50.0	53.2		ug/Kg		106	70 - 144
Acetone	200	209		ug/Kg		105	30 - 162
Benzene	50.0	51.9		ug/Kg		104	70 - 130
Dichlorobromomethane	50.0	54.1		ug/Kg		108	70 - 140
Bromobenzene	50.0	52.3		ug/Kg		105	70 - 130
Chlorobromomethane	50.0	52.0		ug/Kg		104	70 - 130
Bromoform	50.0	55.2		ug/Kg		110	59 - 158
Bromomethane	50.0	49.0		ug/Kg		98	59 - 132
2-Butanone (MEK)	200	216		ug/Kg		108	53 - 133
n-Butylbenzene	50.0	49.3		ug/Kg		99	70 - 142

TestAmerica Pleasanton

# QC Sample Results

Client: Geologica Inc  
Project/Site: Pin High

TestAmerica Job ID: 720-69933-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 720-196552/5

Matrix: Solid

Analysis Batch: 196552

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
sec-Butylbenzene	50.0	47.1		ug/Kg		94	70 - 136
tert-Butylbenzene	50.0	47.1		ug/Kg		94	70 - 130
Carbon disulfide	50.0	40.5		ug/Kg		81	60 - 140
Carbon tetrachloride	50.0	48.7		ug/Kg		97	70 - 142
Chlorobenzene	50.0	50.9		ug/Kg		102	70 - 130
Chloroethane	50.0	46.9		ug/Kg		94	65 - 130
Chloroform	50.0	47.4		ug/Kg		95	77 - 127
Chloromethane	50.0	47.0		ug/Kg		94	55 - 140
2-Chlorotoluene	50.0	50.9		ug/Kg		102	70 - 138
4-Chlorotoluene	50.0	51.3		ug/Kg		103	70 - 136
Chlorodibromomethane	50.0	53.2		ug/Kg		106	70 - 146
1,2-Dichlorobenzene	50.0	51.8		ug/Kg		104	70 - 130
1,3-Dichlorobenzene	50.0	50.2		ug/Kg		100	70 - 131
1,4-Dichlorobenzene	50.0	50.6		ug/Kg		101	70 - 130
1,3-Dichloropropane	50.0	49.9		ug/Kg		100	70 - 140
1,1-Dichloropropane	50.0	48.7		ug/Kg		97	70 - 130
1,2-Dibromo-3-Chloropropane	50.0	44.5		ug/Kg		89	60 - 145
Ethylene Dibromide	50.0	52.0		ug/Kg		104	70 - 140
Dibromomethane	50.0	52.1		ug/Kg		104	70 - 139
Dichlorodifluoromethane	50.0	57.1		ug/Kg		114	37 - 158
1,1-Dichloroethane	50.0	48.6		ug/Kg		97	70 - 130
1,2-Dichloroethane	50.0	53.8		ug/Kg		108	70 - 130
1,1-Dichloroethene	50.0	39.3		ug/Kg		79	74 - 122
cis-1,2-Dichloroethene	50.0	50.7		ug/Kg		101	70 - 138
trans-1,2-Dichloroethene	50.0	46.5		ug/Kg		93	67 - 130
1,2-Dichloropropane	50.0	52.8		ug/Kg		106	73 - 127
cis-1,3-Dichloropropene	50.0	56.7		ug/Kg		113	68 - 147
trans-1,3-Dichloropropene	50.0	59.5		ug/Kg		119	70 - 155
Ethylbenzene	50.0	50.3		ug/Kg		101	80 - 137
Hexachlorobutadiene	50.0	48.7		ug/Kg		97	70 - 132
2-Hexanone	200	235		ug/Kg		118	44 - 133
Isopropylbenzene	50.0	47.3		ug/Kg		95	70 - 130
4-Isopropyltoluene	50.0	47.2		ug/Kg		94	70 - 133
Methylene Chloride	50.0	46.0		ug/Kg		92	70 - 134
4-Methyl-2-pentanone (MIBK)	200	263		ug/Kg		131	60 - 160
Naphthalene	50.0	48.8		ug/Kg		98	60 - 147
N-Propylbenzene	50.0	48.2		ug/Kg		96	70 - 130
Styrene	50.0	50.5		ug/Kg		101	70 - 130
1,1,1,2-Tetrachloroethane	50.0	56.9		ug/Kg		114	70 - 130
1,1,2,2-Tetrachloroethane	50.0	50.9		ug/Kg		102	70 - 146
Tetrachloroethene	50.0	49.3		ug/Kg		99	70 - 132
Toluene	50.0	50.2		ug/Kg		100	75 - 120
1,2,3-Trichlorobenzene	50.0	52.8		ug/Kg		106	60 - 140
1,2,4-Trichlorobenzene	50.0	54.7		ug/Kg		109	60 - 140
1,1,1-Trichloroethane	50.0	48.0		ug/Kg		96	70 - 130
1,1,2-Trichloroethane	50.0	54.3		ug/Kg		109	70 - 130
Trichloroethene	50.0	50.5		ug/Kg		101	70 - 133
Trichlorofluoromethane	50.0	48.3		ug/Kg		97	60 - 140

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# QC Sample Results

Client: Geologica Inc  
Project/Site: Pin High

TestAmerica Job ID: 720-69933-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 720-196552/5**  
**Matrix: Solid**  
**Analysis Batch: 196552**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,3-Trichloropropane	50.0	49.6		ug/Kg		99	70 - 146
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	41.7		ug/Kg		83	60 - 140
1,2,4-Trimethylbenzene	50.0	50.7		ug/Kg		101	70 - 130
1,3,5-Trimethylbenzene	50.0	50.3		ug/Kg		101	70 - 131
Vinyl acetate	50.0	48.1		ug/Kg		96	38 - 176
Vinyl chloride	50.0	49.8		ug/Kg		100	58 - 125
m-Xylene & p-Xylene	50.0	51.6		ug/Kg		103	70 - 146
o-Xylene	50.0	49.6		ug/Kg		99	70 - 140
2,2-Dichloropropane	50.0	48.1		ug/Kg		96	70 - 162

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene	111		45 - 131
1,2-Dichloroethane-d4 (Surr)	103		60 - 140
Toluene-d8 (Surr)	110		58 - 140

**Lab Sample ID: LCS 720-196552/7**  
**Matrix: Solid**  
**Analysis Batch: 196552**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO) -C5-C12	1000	1190		ug/Kg		119	61 - 128

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene	108		45 - 131
1,2-Dichloroethane-d4 (Surr)	104		60 - 140
Toluene-d8 (Surr)	110		58 - 140

**Lab Sample ID: LCSD 720-196552/6**  
**Matrix: Solid**  
**Analysis Batch: 196552**

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Methyl tert-butyl ether	50.0	54.3		ug/Kg		109	70 - 144	2	20
Acetone	200	200		ug/Kg		100	30 - 162	4	30
Benzene	50.0	52.0		ug/Kg		104	70 - 130	0	20
Dichlorobromomethane	50.0	53.0		ug/Kg		106	70 - 140	2	20
Bromobenzene	50.0	52.6		ug/Kg		105	70 - 130	1	20
Chlorobromomethane	50.0	51.6		ug/Kg		103	70 - 130	1	20
Bromoform	50.0	54.2		ug/Kg		108	59 - 158	2	20
Bromomethane	50.0	49.0		ug/Kg		98	59 - 132	0	20
2-Butanone (MEK)	200	216		ug/Kg		108	53 - 133	0	20
n-Butylbenzene	50.0	49.8		ug/Kg		100	70 - 142	1	20
sec-Butylbenzene	50.0	47.4		ug/Kg		95	70 - 136	1	20
tert-Butylbenzene	50.0	47.4		ug/Kg		95	70 - 130	1	20
Carbon disulfide	50.0	41.2		ug/Kg		82	60 - 140	2	20
Carbon tetrachloride	50.0	47.4		ug/Kg		95	70 - 142	3	20

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# QC Sample Results

Client: Geologica Inc  
Project/Site: Pin High

TestAmerica Job ID: 720-69933-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCSD 720-196552/6**  
**Matrix: Solid**  
**Analysis Batch: 196552**

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chlorobenzene	50.0	50.8		ug/Kg		102	70 - 130	0	20
Chloroethane	50.0	47.2		ug/Kg		94	65 - 130	1	20
Chloroform	50.0	46.9		ug/Kg		94	77 - 127	1	20
Chloromethane	50.0	48.3		ug/Kg		97	55 - 140	3	20
2-Chlorotoluene	50.0	50.9		ug/Kg		102	70 - 138	0	20
4-Chlorotoluene	50.0	51.1		ug/Kg		102	70 - 136	0	20
Chlorodibromomethane	50.0	52.1		ug/Kg		104	70 - 146	2	20
1,2-Dichlorobenzene	50.0	52.0		ug/Kg		104	70 - 130	0	20
1,3-Dichlorobenzene	50.0	50.4		ug/Kg		101	70 - 131	0	20
1,4-Dichlorobenzene	50.0	50.6		ug/Kg		101	70 - 130	0	20
1,3-Dichloropropane	50.0	49.4		ug/Kg		99	70 - 140	1	20
1,1-Dichloropropene	50.0	48.2		ug/Kg		96	70 - 130	1	20
1,2-Dibromo-3-Chloropropane	50.0	45.3		ug/Kg		91	60 - 145	2	20
Ethylene Dibromide	50.0	51.7		ug/Kg		103	70 - 140	1	20
Dibromomethane	50.0	51.3		ug/Kg		103	70 - 139	2	20
Dichlorodifluoromethane	50.0	57.2		ug/Kg		114	37 - 158	0	20
1,1-Dichloroethane	50.0	48.6		ug/Kg		97	70 - 130	0	20
1,2-Dichloroethane	50.0	52.7		ug/Kg		105	70 - 130	2	20
1,1-Dichloroethene	50.0	39.6		ug/Kg		79	74 - 122	1	20
cis-1,2-Dichloroethene	50.0	49.7		ug/Kg		99	70 - 138	2	20
trans-1,2-Dichloroethene	50.0	46.4		ug/Kg		93	67 - 130	0	20
1,2-Dichloropropane	50.0	53.1		ug/Kg		106	73 - 127	1	20
cis-1,3-Dichloropropene	50.0	57.2		ug/Kg		114	68 - 147	1	20
trans-1,3-Dichloropropene	50.0	58.6		ug/Kg		117	70 - 155	2	20
Ethylbenzene	50.0	50.3		ug/Kg		101	80 - 137	0	20
Hexachlorobutadiene	50.0	48.3		ug/Kg		97	70 - 132	1	20
2-Hexanone	200	232		ug/Kg		116	44 - 133	1	20
Isopropylbenzene	50.0	47.1		ug/Kg		94	70 - 130	0	20
4-Isopropyltoluene	50.0	47.6		ug/Kg		95	70 - 133	1	20
Methylene Chloride	50.0	46.3		ug/Kg		93	70 - 134	1	20
4-Methyl-2-pentanone (MIBK)	200	262		ug/Kg		131	60 - 160	0	20
Naphthalene	50.0	50.7		ug/Kg		101	60 - 147	4	20
N-Propylbenzene	50.0	48.1		ug/Kg		96	70 - 130	0	20
Styrene	50.0	50.8		ug/Kg		102	70 - 130	0	20
1,1,1,2-Tetrachloroethane	50.0	56.1		ug/Kg		112	70 - 130	1	20
1,1,1,2,2-Tetrachloroethane	50.0	52.1		ug/Kg		104	70 - 146	2	20
Tetrachloroethene	50.0	48.5		ug/Kg		97	70 - 132	2	20
Toluene	50.0	50.2		ug/Kg		100	75 - 120	0	20
1,2,3-Trichlorobenzene	50.0	54.4		ug/Kg		109	60 - 140	3	20
1,2,4-Trichlorobenzene	50.0	55.7		ug/Kg		111	60 - 140	2	20
1,1,1-Trichloroethane	50.0	47.3		ug/Kg		95	70 - 130	2	20
1,1,2-Trichloroethane	50.0	53.9		ug/Kg		108	70 - 130	1	20
Trichloroethene	50.0	49.5		ug/Kg		99	70 - 133	2	20
Trichlorofluoromethane	50.0	47.1		ug/Kg		94	60 - 140	3	20
1,2,3-Trichloropropane	50.0	49.5		ug/Kg		99	70 - 146	0	20
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	40.8		ug/Kg		82	60 - 140	2	20
1,2,4-Trimethylbenzene	50.0	50.8		ug/Kg		102	70 - 130	0	20

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# QC Sample Results

Client: Geologica Inc  
Project/Site: Pin High

TestAmerica Job ID: 720-69933-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCSD 720-196552/6**  
**Matrix: Solid**  
**Analysis Batch: 196552**

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,3,5-Trimethylbenzene	50.0	50.3		ug/Kg		101	70 - 131	0	20
Vinyl acetate	50.0	50.3		ug/Kg		101	38 - 176	4	20
Vinyl chloride	50.0	49.6		ug/Kg		99	58 - 125	0	20
m-Xylene & p-Xylene	50.0	51.2		ug/Kg		102	70 - 146	1	20
o-Xylene	50.0	49.7		ug/Kg		99	70 - 140	0	20
2,2-Dichloropropane	50.0	48.3		ug/Kg		97	70 - 162	0	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene	109		45 - 131
1,2-Dichloroethane-d4 (Surr)	103		60 - 140
Toluene-d8 (Surr)	110		58 - 140

**Lab Sample ID: LCSD 720-196552/8**  
**Matrix: Solid**  
**Analysis Batch: 196552**

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C5-C12	1000	1200		ug/Kg		120	61 - 128	1	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene	110		45 - 131
1,2-Dichloroethane-d4 (Surr)	101		60 - 140
Toluene-d8 (Surr)	111		58 - 140

**Lab Sample ID: 720-69933-36 MS**  
**Matrix: Solid**  
**Analysis Batch: 196552**

**Client Sample ID: GP-8-7.5-8'**  
**Prep Type: Total/NA**  
**Prep Batch: 196561**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Methyl tert-butyl ether	ND		58.5	66.9		ug/Kg	☼	114	69 - 130
Acetone	ND		234	316		ug/Kg	☼	135	37 - 150
Benzene	ND		58.5	64.6		ug/Kg	☼	111	70 - 130
Dichlorobromomethane	ND		58.5	63.4		ug/Kg	☼	108	64 - 135
Bromobenzene	ND		58.5	66.8		ug/Kg	☼	114	70 - 130
Chlorobromomethane	ND		58.5	62.7		ug/Kg	☼	107	65 - 130
Bromoform	ND		58.5	68.5		ug/Kg	☼	117	58 - 132
Bromomethane	ND		58.5	56.8		ug/Kg	☼	97	56 - 130
2-Butanone (MEK)	ND		234	320		ug/Kg	☼	137	41 - 150
n-Butylbenzene	ND		58.5	62.1		ug/Kg	☼	106	60 - 145
sec-Butylbenzene	ND		58.5	62.1		ug/Kg	☼	106	64 - 137
tert-Butylbenzene	ND		58.5	62.8		ug/Kg	☼	107	63 - 134
Carbon disulfide	ND		58.5	51.5		ug/Kg	☼	88	10 - 150
Carbon tetrachloride	ND		58.5	59.2		ug/Kg	☼	101	54 - 130
Chlorobenzene	ND		58.5	62.1		ug/Kg	☼	106	70 - 130
Chloroethane	ND		58.5	55.5		ug/Kg	☼	95	61 - 130
Chloroform	ND		58.5	56.8		ug/Kg	☼	97	67 - 130
Chloromethane	ND		58.5	55.7		ug/Kg	☼	95	50 - 131

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# QC Sample Results

Client: Geologica Inc  
Project/Site: Pin High

TestAmerica Job ID: 720-69933-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: 720-69933-36 MS**

**Matrix: Solid**

**Analysis Batch: 196552**

**Client Sample ID: GP-8-7.5-8'**

**Prep Type: Total/NA**

**Prep Batch: 196561**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
2-Chlorotoluene	ND		58.5	65.5		ug/Kg	☼	112	70 - 130
4-Chlorotoluene	ND		58.5	65.3		ug/Kg	☼	112	70 - 130
Chlorodibromomethane	ND		58.5	61.9		ug/Kg	☼	106	60 - 141
1,2-Dichlorobenzene	ND		58.5	62.5		ug/Kg	☼	107	70 - 130
1,3-Dichlorobenzene	ND		58.5	61.8		ug/Kg	☼	106	70 - 130
1,4-Dichlorobenzene	ND		58.5	62.3		ug/Kg	☼	107	70 - 130
1,3-Dichloropropane	ND		58.5	60.6		ug/Kg	☼	104	70 - 130
1,1-Dichloropropene	ND		58.5	61.3		ug/Kg	☼	105	67 - 130
1,2-Dibromo-3-Chloropropane	ND		58.5	64.9		ug/Kg	☼	111	57 - 130
Ethylene Dibromide	ND		58.5	64.1		ug/Kg	☼	110	66 - 135
Dibromomethane	ND		58.5	62.5		ug/Kg	☼	107	65 - 131
Dichlorodifluoromethane	ND		58.5	67.3		ug/Kg	☼	115	38 - 130
1,1-Dichloroethane	ND		58.5	60.0		ug/Kg	☼	103	67 - 130
1,2-Dichloroethane	ND		58.5	63.7		ug/Kg	☼	109	70 - 130
1,1-Dichloroethene	ND		58.5	52.4		ug/Kg	☼	90	64 - 130
cis-1,2-Dichloroethene	ND		58.5	60.5		ug/Kg	☼	103	68 - 131
trans-1,2-Dichloroethene	ND		58.5	59.1		ug/Kg	☼	101	70 - 130
1,2-Dichloropropane	ND		58.5	64.5		ug/Kg	☼	110	65 - 133
cis-1,3-Dichloropropene	ND		58.5	67.5		ug/Kg	☼	116	46 - 139
trans-1,3-Dichloropropene	ND		58.5	69.2		ug/Kg	☼	118	55 - 131
Ethylbenzene	ND		58.5	63.6		ug/Kg	☼	109	65 - 130
Hexachlorobutadiene	ND		58.5	53.7		ug/Kg	☼	92	58 - 132
2-Hexanone	ND		234	331		ug/Kg	☼	142	44 - 150
Isopropylbenzene	ND		58.5	59.6		ug/Kg	☼	102	65 - 130
4-Isopropyltoluene	ND		58.5	61.9		ug/Kg	☼	106	69 - 134
Methylene Chloride	ND		58.5	56.7		ug/Kg	☼	97	63 - 130
4-Methyl-2-pentanone (MIBK)	ND	F1	234	365	F1	ug/Kg	☼	156	51 - 140
Naphthalene	ND		58.5	59.0		ug/Kg	☼	101	45 - 146
N-Propylbenzene	ND		58.5	64.4		ug/Kg	☼	110	70 - 130
Styrene	ND		58.5	61.1		ug/Kg	☼	105	58 - 135
1,1,1,2-Tetrachloroethane	ND		58.5	68.7		ug/Kg	☼	117	64 - 133
1,1,1,2,2-Tetrachloroethane	ND		58.5	64.9		ug/Kg	☼	111	70 - 131
Tetrachloroethene	ND		58.5	60.7		ug/Kg	☼	104	67 - 130
Toluene	ND		58.5	64.2		ug/Kg	☼	110	70 - 130
1,2,3-Trichlorobenzene	ND		58.5	57.1		ug/Kg	☼	98	58 - 138
1,2,4-Trichlorobenzene	ND		58.5	58.8		ug/Kg	☼	101	49 - 144
1,1,1-Trichloroethane	ND		58.5	58.2		ug/Kg	☼	100	57 - 133
1,1,2-Trichloroethane	ND		58.5	66.6		ug/Kg	☼	114	68 - 132
Trichloroethene	ND		58.5	67.6		ug/Kg	☼	116	66 - 130
Trichlorofluoromethane	ND		58.5	55.7		ug/Kg	☼	95	61 - 130
1,2,3-Trichloropropane	ND		58.5	72.0		ug/Kg	☼	123	62 - 150
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		58.5	52.6		ug/Kg	☼	90	52 - 130
1,2,4-Trimethylbenzene	ND		58.5	65.6		ug/Kg	☼	112	64 - 140
1,3,5-Trimethylbenzene	ND		58.5	66.4		ug/Kg	☼	114	67 - 134
Vinyl acetate	ND	F1 F2	58.5	ND	F1	ug/Kg	☼	33	52 - 150
Vinyl chloride	ND		58.5	58.1		ug/Kg	☼	99	62 - 130
m-Xylene & p-Xylene	ND		58.5	63.8		ug/Kg	☼	109	70 - 130

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# QC Sample Results

Client: Geologica Inc  
Project/Site: Pin High

TestAmerica Job ID: 720-69933-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: 720-69933-36 MS**

**Matrix: Solid**

**Analysis Batch: 196552**

**Client Sample ID: GP-8-7.5-8'**

**Prep Type: Total/NA**

**Prep Batch: 196561**

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec. Limits
	Result	Qualifier	Added	Result	Qualifier				
o-Xylene	ND		58.5	61.0		ug/Kg	☼	104	68 - 130
2,2-Dichloropropane	ND		58.5	54.9		ug/Kg	☼	94	63 - 130
<b>Surrogate</b>	<b>MS</b>	<b>MS</b>							
	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>						
4-Bromofluorobenzene	105		45 - 131						
1,2-Dichloroethane-d4 (Surr)	103		60 - 140						
Toluene-d8 (Surr)	109		58 - 140						

**Lab Sample ID: 720-69933-36 MSD**

**Matrix: Solid**

**Analysis Batch: 196552**

**Client Sample ID: GP-8-7.5-8'**

**Prep Type: Total/NA**

**Prep Batch: 196561**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec. Limits	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier						
Methyl tert-butyl ether	ND		57.1	61.9		ug/Kg	☼	109	69 - 130	8	20
Acetone	ND		228	281		ug/Kg	☼	123	37 - 150	12	20
Benzene	ND		57.1	59.7		ug/Kg	☼	105	70 - 130	8	20
Dichlorobromomethane	ND		57.1	57.7		ug/Kg	☼	101	64 - 135	9	20
Bromobenzene	ND		57.1	64.2		ug/Kg	☼	112	70 - 130	4	20
Chlorobromomethane	ND		57.1	57.9		ug/Kg	☼	101	65 - 130	8	20
Bromoform	ND		57.1	64.6		ug/Kg	☼	113	58 - 132	6	20
Bromomethane	ND		57.1	49.5		ug/Kg	☼	87	56 - 130	14	20
2-Butanone (MEK)	ND		228	277		ug/Kg	☼	121	41 - 150	14	20
n-Butylbenzene	ND		57.1	58.5		ug/Kg	☼	103	60 - 145	6	20
sec-Butylbenzene	ND		57.1	59.2		ug/Kg	☼	104	64 - 137	5	20
tert-Butylbenzene	ND		57.1	60.2		ug/Kg	☼	105	63 - 134	4	20
Carbon disulfide	ND		57.1	47.7		ug/Kg	☼	84	10 - 150	8	20
Carbon tetrachloride	ND		57.1	53.9		ug/Kg	☼	94	54 - 130	9	20
Chlorobenzene	ND		57.1	58.7		ug/Kg	☼	103	70 - 130	6	20
Chloroethane	ND		57.1	49.0		ug/Kg	☼	86	61 - 130	13	20
Chloroform	ND		57.1	52.1		ug/Kg	☼	91	67 - 130	9	20
Chloromethane	ND		57.1	49.7		ug/Kg	☼	87	50 - 131	11	20
2-Chlorotoluene	ND		57.1	63.6		ug/Kg	☼	111	70 - 130	3	20
4-Chlorotoluene	ND		57.1	62.4		ug/Kg	☼	109	70 - 130	5	20
Chlorodibromomethane	ND		57.1	56.9		ug/Kg	☼	100	60 - 141	8	20
1,2-Dichlorobenzene	ND		57.1	58.8		ug/Kg	☼	103	70 - 130	6	20
1,3-Dichlorobenzene	ND		57.1	58.6		ug/Kg	☼	103	70 - 130	5	20
1,4-Dichlorobenzene	ND		57.1	58.8		ug/Kg	☼	103	70 - 130	6	20
1,3-Dichloropropane	ND		57.1	55.7		ug/Kg	☼	98	70 - 130	9	20
1,1-Dichloropropene	ND		57.1	56.0		ug/Kg	☼	98	67 - 130	9	20
1,2-Dibromo-3-Chloropropane	ND		57.1	59.4		ug/Kg	☼	104	57 - 130	9	20
Ethylene Dibromide	ND		57.1	58.1		ug/Kg	☼	102	66 - 135	10	20
Dibromomethane	ND		57.1	57.6		ug/Kg	☼	101	65 - 131	8	20
Dichlorodifluoromethane	ND		57.1	57.0		ug/Kg	☼	100	38 - 130	17	20
1,1-Dichloroethane	ND		57.1	55.9		ug/Kg	☼	98	67 - 130	7	20
1,2-Dichloroethane	ND		57.1	58.3		ug/Kg	☼	102	70 - 130	9	20
1,1-Dichloroethene	ND		57.1	47.8		ug/Kg	☼	84	64 - 130	9	20
cis-1,2-Dichloroethene	ND		57.1	55.8		ug/Kg	☼	98	68 - 131	8	20
trans-1,2-Dichloroethene	ND		57.1	55.4		ug/Kg	☼	97	70 - 130	6	20

TestAmerica Pleasanton

# QC Sample Results

Client: Geologica Inc  
Project/Site: Pin High

TestAmerica Job ID: 720-69933-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: 720-69933-36 MSD**

**Matrix: Solid**

**Analysis Batch: 196552**

**Client Sample ID: GP-8-7.5-8'**

**Prep Type: Total/NA**

**Prep Batch: 196561**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
	Result	Qualifier	Added	Result	Qualifier						
1,2-Dichloropropane	ND		57.1	59.1		ug/Kg	☼	104	65 - 133	9	20
cis-1,3-Dichloropropene	ND		57.1	62.6		ug/Kg	☼	110	46 - 139	8	20
trans-1,3-Dichloropropene	ND		57.1	63.9		ug/Kg	☼	112	55 - 131	8	20
Ethylbenzene	ND		57.1	60.0		ug/Kg	☼	105	65 - 130	6	20
Hexachlorobutadiene	ND		57.1	50.3		ug/Kg	☼	88	58 - 132	7	20
2-Hexanone	ND		228	292		ug/Kg	☼	128	44 - 150	13	20
Isopropylbenzene	ND		57.1	55.8		ug/Kg	☼	98	65 - 130	7	20
4-Isopropyltoluene	ND		57.1	58.7		ug/Kg	☼	103	69 - 134	5	20
Methylene Chloride	ND		57.1	52.9		ug/Kg	☼	93	63 - 130	7	20
4-Methyl-2-pentanone (MIBK)	ND	F1	228	322	F1	ug/Kg	☼	141	51 - 140	13	20
Naphthalene	ND		57.1	54.7		ug/Kg	☼	96	45 - 146	7	20
N-Propylbenzene	ND		57.1	62.7		ug/Kg	☼	110	70 - 130	3	20
Styrene	ND		57.1	57.0		ug/Kg	☼	100	58 - 135	7	20
1,1,1,2-Tetrachloroethane	ND		57.1	65.2		ug/Kg	☼	114	64 - 133	5	20
1,1,1,2-Tetrachloroethane	ND		57.1	60.0		ug/Kg	☼	105	70 - 131	8	20
Tetrachloroethene	ND		57.1	54.8		ug/Kg	☼	96	67 - 130	10	20
Toluene	ND		57.1	60.9		ug/Kg	☼	107	70 - 130	5	20
1,2,3-Trichlorobenzene	ND		57.1	52.9		ug/Kg	☼	93	58 - 138	8	20
1,2,4-Trichlorobenzene	ND		57.1	54.2		ug/Kg	☼	95	49 - 144	8	20
1,1,1-Trichloroethane	ND		57.1	53.6		ug/Kg	☼	94	57 - 133	8	20
1,1,2-Trichloroethane	ND		57.1	61.0		ug/Kg	☼	107	68 - 132	9	20
Trichloroethene	ND		57.1	63.2		ug/Kg	☼	111	66 - 130	7	20
Trichlorofluoromethane	ND		57.1	47.4		ug/Kg	☼	83	61 - 130	16	20
1,2,3-Trichloropropane	ND		57.1	68.5		ug/Kg	☼	120	62 - 150	5	20
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		57.1	48.1		ug/Kg	☼	84	52 - 130	9	20
1,2,4-Trimethylbenzene	ND		57.1	62.5		ug/Kg	☼	110	64 - 140	5	20
1,3,5-Trimethylbenzene	ND		57.1	63.2		ug/Kg	☼	111	67 - 134	5	20
Vinyl acetate	ND	F1 F2	57.1	ND	F1 F2	ug/Kg	☼	20	52 - 150	48	20
Vinyl chloride	ND		57.1	51.3		ug/Kg	☼	90	62 - 130	12	20
m-Xylene & p-Xylene	ND		57.1	60.4		ug/Kg	☼	106	70 - 130	5	20
o-Xylene	ND		57.1	57.4		ug/Kg	☼	101	68 - 130	6	20
2,2-Dichloropropane	ND		57.1	52.6		ug/Kg	☼	92	63 - 130	4	20

Surrogate	MSD	MSD	Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene	105		45 - 131
1,2-Dichloroethane-d4 (Surr)	99		60 - 140
Toluene-d8 (Surr)	107		58 - 140

## Method: 8260B/CA\_LUFTMS - 8260B / CA LUFT MS

**Lab Sample ID: MB 720-196234/4**

**Matrix: Water**

**Analysis Batch: 196234**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Methyl tert-butyl ether	ND		0.50		ug/L			01/26/16 08:51	1
Acetone	ND		50		ug/L			01/26/16 08:51	1

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# QC Sample Results

Client: Geologica Inc  
Project/Site: Pin High

TestAmerica Job ID: 720-69933-1

## Method: 8260B/CA\_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: MB 720-196234/4  
Matrix: Water  
Analysis Batch: 196234

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.50		ug/L			01/26/16 08:51	1
Dichlorobromomethane	ND		0.50		ug/L			01/26/16 08:51	1
Bromobenzene	ND		1.0		ug/L			01/26/16 08:51	1
Chlorobromomethane	ND		1.0		ug/L			01/26/16 08:51	1
Bromoform	ND		1.0		ug/L			01/26/16 08:51	1
Bromomethane	ND		1.0		ug/L			01/26/16 08:51	1
2-Butanone (MEK)	ND		50		ug/L			01/26/16 08:51	1
n-Butylbenzene	ND		1.0		ug/L			01/26/16 08:51	1
sec-Butylbenzene	ND		1.0		ug/L			01/26/16 08:51	1
tert-Butylbenzene	ND		1.0		ug/L			01/26/16 08:51	1
Carbon disulfide	ND		5.0		ug/L			01/26/16 08:51	1
Carbon tetrachloride	ND		0.50		ug/L			01/26/16 08:51	1
Chlorobenzene	ND		0.50		ug/L			01/26/16 08:51	1
Chloroethane	ND		1.0		ug/L			01/26/16 08:51	1
Chloroform	ND		1.0		ug/L			01/26/16 08:51	1
Chloromethane	ND		1.0		ug/L			01/26/16 08:51	1
2-Chlorotoluene	ND		0.50		ug/L			01/26/16 08:51	1
4-Chlorotoluene	ND		0.50		ug/L			01/26/16 08:51	1
Chlorodibromomethane	ND		0.50		ug/L			01/26/16 08:51	1
1,2-Dichlorobenzene	ND		0.50		ug/L			01/26/16 08:51	1
1,3-Dichlorobenzene	ND		0.50		ug/L			01/26/16 08:51	1
1,4-Dichlorobenzene	ND		0.50		ug/L			01/26/16 08:51	1
1,3-Dichloropropane	ND		1.0		ug/L			01/26/16 08:51	1
1,1-Dichloropropene	ND		0.50		ug/L			01/26/16 08:51	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			01/26/16 08:51	1
Ethylene Dibromide	ND		0.50		ug/L			01/26/16 08:51	1
Dibromomethane	ND		0.50		ug/L			01/26/16 08:51	1
Dichlorodifluoromethane	ND		0.50		ug/L			01/26/16 08:51	1
1,1-Dichloroethane	ND		0.50		ug/L			01/26/16 08:51	1
1,2-Dichloroethane	ND		0.50		ug/L			01/26/16 08:51	1
1,1-Dichloroethene	ND		0.50		ug/L			01/26/16 08:51	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			01/26/16 08:51	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			01/26/16 08:51	1
1,2-Dichloropropane	ND		0.50		ug/L			01/26/16 08:51	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			01/26/16 08:51	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			01/26/16 08:51	1
Ethylbenzene	ND		0.50		ug/L			01/26/16 08:51	1
Hexachlorobutadiene	ND		1.0		ug/L			01/26/16 08:51	1
2-Hexanone	ND		50		ug/L			01/26/16 08:51	1
Isopropylbenzene	ND		0.50		ug/L			01/26/16 08:51	1
4-Isopropyltoluene	ND		1.0		ug/L			01/26/16 08:51	1
Methylene Chloride	ND		5.0		ug/L			01/26/16 08:51	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			01/26/16 08:51	1
Naphthalene	ND		1.0		ug/L			01/26/16 08:51	1
N-Propylbenzene	ND		1.0		ug/L			01/26/16 08:51	1
Styrene	ND		0.50		ug/L			01/26/16 08:51	1
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			01/26/16 08:51	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			01/26/16 08:51	1

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# QC Sample Results

Client: Geologica Inc  
Project/Site: Pin High

TestAmerica Job ID: 720-69933-1

## Method: 8260B/CA\_LUFTMS - 8260B / CA LUFT MS (Continued)

**Lab Sample ID: MB 720-196234/4**  
**Matrix: Water**  
**Analysis Batch: 196234**

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

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Tetrachloroethene	ND		0.50		ug/L			01/26/16 08:51	1
Toluene	ND		0.50		ug/L			01/26/16 08:51	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			01/26/16 08:51	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			01/26/16 08:51	1
1,1,1-Trichloroethane	ND		0.50		ug/L			01/26/16 08:51	1
1,1,2-Trichloroethane	ND		0.50		ug/L			01/26/16 08:51	1
Trichloroethene	ND		0.50		ug/L			01/26/16 08:51	1
Trichlorofluoromethane	ND		1.0		ug/L			01/26/16 08:51	1
1,2,3-Trichloropropane	ND		0.50		ug/L			01/26/16 08:51	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			01/26/16 08:51	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			01/26/16 08:51	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			01/26/16 08:51	1
Vinyl acetate	ND		10		ug/L			01/26/16 08:51	1
Vinyl chloride	ND		0.50		ug/L			01/26/16 08:51	1
Xylenes, Total	ND		1.0		ug/L			01/26/16 08:51	1
2,2-Dichloropropane	ND		0.50		ug/L			01/26/16 08:51	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			01/26/16 08:51	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene	105		67 - 130		01/26/16 08:51	1
1,2-Dichloroethane-d4 (Surr)	92		72 - 130		01/26/16 08:51	1
Toluene-d8 (Surr)	103		70 - 130		01/26/16 08:51	1

**Lab Sample ID: LCS 720-196234/14**  
**Matrix: Water**  
**Analysis Batch: 196234**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
Gasoline Range Organics (GRO) -C5-C12	500	499		ug/L		100	62 - 120

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene	99		67 - 130
1,2-Dichloroethane-d4 (Surr)	99		72 - 130
Toluene-d8 (Surr)	103		70 - 130

**Lab Sample ID: LCS 720-196234/5**  
**Matrix: Water**  
**Analysis Batch: 196234**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
Methyl tert-butyl ether	25.0	25.1		ug/L		100	62 - 130
Acetone	100	97.3		ug/L		97	26 - 180
Benzene	25.0	25.7		ug/L		103	79 - 130
Dichlorobromomethane	25.0	27.1		ug/L		109	70 - 130
Bromobenzene	25.0	26.5		ug/L		106	70 - 130
Chlorobromomethane	25.0	26.8		ug/L		107	70 - 130

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# QC Sample Results

Client: Geologica Inc  
Project/Site: Pin High

TestAmerica Job ID: 720-69933-1

## Method: 8260B/CA\_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCS 720-196234/5

Matrix: Water

Analysis Batch: 196234

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromoform	25.0	28.8		ug/L		115	68 - 136
Bromomethane	25.0	28.2		ug/L		113	43 - 151
2-Butanone (MEK)	100	102		ug/L		102	54 - 130
n-Butylbenzene	25.0	27.3		ug/L		109	70 - 142
sec-Butylbenzene	25.0	26.8		ug/L		107	70 - 134
tert-Butylbenzene	25.0	26.8		ug/L		107	70 - 135
Carbon disulfide	25.0	22.4		ug/L		90	58 - 130
Carbon tetrachloride	25.0	26.2		ug/L		105	70 - 146
Chlorobenzene	25.0	26.6		ug/L		106	70 - 130
Chloroethane	25.0	24.9		ug/L		100	62 - 138
Chloroform	25.0	26.5		ug/L		106	70 - 130
Chloromethane	25.0	26.4		ug/L		106	52 - 175
2-Chlorotoluene	25.0	26.2		ug/L		105	70 - 130
4-Chlorotoluene	25.0	27.0		ug/L		108	70 - 130
Chlorodibromomethane	25.0	27.3		ug/L		109	70 - 145
1,2-Dichlorobenzene	25.0	26.2		ug/L		105	70 - 130
1,3-Dichlorobenzene	25.0	25.8		ug/L		103	70 - 130
1,4-Dichlorobenzene	25.0	26.4		ug/L		106	70 - 130
1,3-Dichloropropane	25.0	25.6		ug/L		102	70 - 130
1,1-Dichloropropane	25.0	26.8		ug/L		107	70 - 130
1,2-Dibromo-3-Chloropropane	25.0	25.7		ug/L		103	70 - 136
Ethylene Dibromide	25.0	27.7		ug/L		111	70 - 130
Dibromomethane	25.0	26.5		ug/L		106	70 - 130
Dichlorodifluoromethane	25.0	29.1		ug/L		116	34 - 132
1,1-Dichloroethane	25.0	25.9		ug/L		103	70 - 130
1,2-Dichloroethane	25.0	25.2		ug/L		101	61 - 132
1,1-Dichloroethene	25.0	23.7		ug/L		95	64 - 128
cis-1,2-Dichloroethene	25.0	26.4		ug/L		106	70 - 130
trans-1,2-Dichloroethene	25.0	25.4		ug/L		102	68 - 130
1,2-Dichloropropane	25.0	26.6		ug/L		106	70 - 130
cis-1,3-Dichloropropane	25.0	28.2		ug/L		113	70 - 130
trans-1,3-Dichloropropane	25.0	28.5		ug/L		114	70 - 140
Ethylbenzene	25.0	27.1		ug/L		108	80 - 120
Hexachlorobutadiene	25.0	26.4		ug/L		106	70 - 130
2-Hexanone	100	101		ug/L		101	60 - 164
Isopropylbenzene	25.0	28.2		ug/L		113	70 - 130
4-Isopropyltoluene	25.0	26.5		ug/L		106	70 - 130
Methylene Chloride	25.0	24.1		ug/L		96	70 - 147
4-Methyl-2-pentanone (MIBK)	100	108		ug/L		108	58 - 130
Naphthalene	25.0	24.6		ug/L		99	70 - 130
N-Propylbenzene	25.0	27.3		ug/L		109	70 - 130
Styrene	25.0	27.3		ug/L		109	70 - 130
1,1,1,2-Tetrachloroethane	25.0	26.9		ug/L		107	70 - 130
1,1,2,2-Tetrachloroethane	25.0	25.9		ug/L		103	70 - 130
Tetrachloroethene	25.0	26.8		ug/L		107	70 - 130
Toluene	25.0	27.4		ug/L		110	78 - 120
1,2,3-Trichlorobenzene	25.0	25.6		ug/L		103	70 - 130
1,2,4-Trichlorobenzene	25.0	26.6		ug/L		106	70 - 130

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# QC Sample Results

Client: Geologica Inc  
Project/Site: Pin High

TestAmerica Job ID: 720-69933-1

## Method: 8260B/CA\_LUFTMS - 8260B / CA LUFT MS (Continued)

**Lab Sample ID: LCS 720-196234/5**  
**Matrix: Water**  
**Analysis Batch: 196234**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	25.0	25.6		ug/L		103	70 - 130
1,1,2-Trichloroethane	25.0	26.8		ug/L		107	70 - 130
Trichloroethene	25.0	27.3		ug/L		109	70 - 130
Trichlorofluoromethane	25.0	26.5		ug/L		106	66 - 132
1,2,3-Trichloropropane	25.0	25.7		ug/L		103	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	24.1		ug/L		96	42 - 162
1,2,4-Trimethylbenzene	25.0	26.7		ug/L		107	70 - 132
1,3,5-Trimethylbenzene	25.0	27.1		ug/L		109	70 - 130
Vinyl acetate	25.0	24.9		ug/L		99	43 - 163
Vinyl chloride	25.0	27.6		ug/L		111	54 - 135
m-Xylene & p-Xylene	25.0	26.8		ug/L		107	70 - 142
o-Xylene	25.0	26.8		ug/L		107	70 - 130
2,2-Dichloropropane	25.0	26.3		ug/L		105	70 - 140

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene	104		67 - 130
1,2-Dichloroethane-d4 (Surr)	89		72 - 130
Toluene-d8 (Surr)	102		70 - 130

**Lab Sample ID: LCSD 720-196234/15**  
**Matrix: Water**  
**Analysis Batch: 196234**

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C5-C12	500	500		ug/L		100	62 - 120	0	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene	104		67 - 130
1,2-Dichloroethane-d4 (Surr)	101		72 - 130
Toluene-d8 (Surr)	106		70 - 130

**Lab Sample ID: LCSD 720-196234/6**  
**Matrix: Water**  
**Analysis Batch: 196234**

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Methyl tert-butyl ether	25.0	26.4		ug/L		106	62 - 130	5	20
Acetone	100	106		ug/L		106	26 - 180	8	30
Benzene	25.0	26.2		ug/L		105	79 - 130	2	20
Dichlorobromomethane	25.0	27.7		ug/L		111	70 - 130	2	20
Bromobenzene	25.0	26.0		ug/L		104	70 - 130	2	20
Chlorobromomethane	25.0	27.8		ug/L		111	70 - 130	4	20
Bromoform	25.0	29.8		ug/L		119	68 - 136	3	20
Bromomethane	25.0	29.2		ug/L		117	43 - 151	4	20
2-Butanone (MEK)	100	111		ug/L		111	54 - 130	8	20
n-Butylbenzene	25.0	26.7		ug/L		107	70 - 142	2	20

TestAmerica Pleasanton

# QC Sample Results

Client: Geologica Inc  
Project/Site: Pin High

TestAmerica Job ID: 720-69933-1

## Method: 8260B/CA\_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCSD 720-196234/6

Matrix: Water

Analysis Batch: 196234

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
sec-Butylbenzene	25.0	26.4		ug/L		106	70 - 134	2	20
tert-Butylbenzene	25.0	26.4		ug/L		106	70 - 135	2	20
Carbon disulfide	25.0	22.5		ug/L		90	58 - 130	1	20
Carbon tetrachloride	25.0	26.8		ug/L		107	70 - 146	2	20
Chlorobenzene	25.0	27.0		ug/L		108	70 - 130	2	20
Chloroethane	25.0	24.0		ug/L		96	62 - 138	4	20
Chloroform	25.0	26.7		ug/L		107	70 - 130	1	20
Chloromethane	25.0	27.8		ug/L		111	52 - 175	5	20
2-Chlorotoluene	25.0	25.6		ug/L		103	70 - 130	2	20
4-Chlorotoluene	25.0	26.2		ug/L		105	70 - 130	3	20
Chlorodibromomethane	25.0	27.8		ug/L		111	70 - 145	2	20
1,2-Dichlorobenzene	25.0	26.1		ug/L		105	70 - 130	0	20
1,3-Dichlorobenzene	25.0	25.7		ug/L		103	70 - 130	0	20
1,4-Dichlorobenzene	25.0	26.1		ug/L		104	70 - 130	1	20
1,3-Dichloropropane	25.0	27.5		ug/L		110	70 - 130	7	20
1,1-Dichloropropane	25.0	27.3		ug/L		109	70 - 130	2	20
1,2-Dibromo-3-Chloropropane	25.0	27.0		ug/L		108	70 - 136	5	20
Ethylene Dibromide	25.0	28.9		ug/L		115	70 - 130	4	20
Dibromomethane	25.0	27.3		ug/L		109	70 - 130	3	20
Dichlorodifluoromethane	25.0	30.4		ug/L		122	34 - 132	5	20
1,1-Dichloroethane	25.0	26.6		ug/L		106	70 - 130	3	20
1,2-Dichloroethane	25.0	26.1		ug/L		104	61 - 132	3	20
1,1-Dichloroethene	25.0	24.0		ug/L		96	64 - 128	1	20
cis-1,2-Dichloroethene	25.0	27.2		ug/L		109	70 - 130	3	20
trans-1,2-Dichloroethene	25.0	25.9		ug/L		104	68 - 130	2	20
1,2-Dichloropropane	25.0	27.9		ug/L		111	70 - 130	5	20
cis-1,3-Dichloropropene	25.0	29.1		ug/L		116	70 - 130	3	20
trans-1,3-Dichloropropene	25.0	29.7		ug/L		119	70 - 140	4	20
Ethylbenzene	25.0	27.6		ug/L		110	80 - 120	2	20
Hexachlorobutadiene	25.0	25.5		ug/L		102	70 - 130	3	20
2-Hexanone	100	111		ug/L		111	60 - 164	10	20
Isopropylbenzene	25.0	28.6		ug/L		115	70 - 130	2	20
4-Isopropyltoluene	25.0	25.7		ug/L		103	70 - 130	3	20
Methylene Chloride	25.0	24.5		ug/L		98	70 - 147	2	20
4-Methyl-2-pentanone (MIBK)	100	116		ug/L		116	58 - 130	7	20
Naphthalene	25.0	25.6		ug/L		102	70 - 130	4	20
N-Propylbenzene	25.0	26.4		ug/L		106	70 - 130	3	20
Styrene	25.0	27.6		ug/L		110	70 - 130	1	20
1,1,1,2-Tetrachloroethane	25.0	27.3		ug/L		109	70 - 130	2	20
1,1,2,2-Tetrachloroethane	25.0	26.3		ug/L		105	70 - 130	2	20
Tetrachloroethene	25.0	27.1		ug/L		109	70 - 130	1	20
Toluene	25.0	27.6		ug/L		110	78 - 120	1	20
1,2,3-Trichlorobenzene	25.0	25.8		ug/L		103	70 - 130	1	20
1,2,4-Trichlorobenzene	25.0	26.5		ug/L		106	70 - 130	1	20
1,1,1-Trichloroethane	25.0	25.9		ug/L		103	70 - 130	1	20
1,1,2-Trichloroethane	25.0	27.8		ug/L		111	70 - 130	4	20
Trichloroethene	25.0	27.6		ug/L		111	70 - 130	1	20
Trichlorofluoromethane	25.0	27.0		ug/L		108	66 - 132	2	20

TestAmerica Pleasanton

# QC Sample Results

Client: Geologica Inc  
Project/Site: Pin High

TestAmerica Job ID: 720-69933-1

## Method: 8260B/CA\_LUFTMS - 8260B / CA LUFT MS (Continued)

**Lab Sample ID: LCSD 720-196234/6**

**Matrix: Water**

**Analysis Batch: 196234**

**Client Sample ID: Lab Control Sample Dup**

**Prep Type: Total/NA**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2,3-Trichloropropane	25.0	27.2		ug/L		109	70 - 130	6	20
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	24.5		ug/L		98	42 - 162	2	20
1,2,4-Trimethylbenzene	25.0	26.4		ug/L		106	70 - 132	1	20
1,3,5-Trimethylbenzene	25.0	26.7		ug/L		107	70 - 130	2	20
Vinyl acetate	25.0	26.1		ug/L		104	43 - 163	5	20
Vinyl chloride	25.0	28.4		ug/L		114	54 - 135	3	20
m-Xylene & p-Xylene	25.0	27.2		ug/L		109	70 - 142	1	20
o-Xylene	25.0	27.3		ug/L		109	70 - 130	2	20
2,2-Dichloropropane	25.0	26.4		ug/L		105	70 - 140	0	20

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
4-Bromofluorobenzene	106		67 - 130
1,2-Dichloroethane-d4 (Surr)	92		72 - 130
Toluene-d8 (Surr)	106		70 - 130

**Lab Sample ID: MB 720-196293/4**

**Matrix: Water**

**Analysis Batch: 196293**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50		ug/L			01/26/16 19:22	1
Acetone	ND		50		ug/L			01/26/16 19:22	1
Benzene	ND		0.50		ug/L			01/26/16 19:22	1
Dichlorobromomethane	ND		0.50		ug/L			01/26/16 19:22	1
Bromobenzene	ND		1.0		ug/L			01/26/16 19:22	1
Chlorobromomethane	ND		1.0		ug/L			01/26/16 19:22	1
Bromoform	ND		1.0		ug/L			01/26/16 19:22	1
Bromomethane	ND		1.0		ug/L			01/26/16 19:22	1
2-Butanone (MEK)	ND		50		ug/L			01/26/16 19:22	1
n-Butylbenzene	ND		1.0		ug/L			01/26/16 19:22	1
sec-Butylbenzene	ND		1.0		ug/L			01/26/16 19:22	1
tert-Butylbenzene	ND		1.0		ug/L			01/26/16 19:22	1
Carbon disulfide	ND		5.0		ug/L			01/26/16 19:22	1
Carbon tetrachloride	ND		0.50		ug/L			01/26/16 19:22	1
Chlorobenzene	ND		0.50		ug/L			01/26/16 19:22	1
Chloroethane	ND		1.0		ug/L			01/26/16 19:22	1
Chloroform	ND		1.0		ug/L			01/26/16 19:22	1
Chloromethane	ND		1.0		ug/L			01/26/16 19:22	1
2-Chlorotoluene	ND		0.50		ug/L			01/26/16 19:22	1
4-Chlorotoluene	ND		0.50		ug/L			01/26/16 19:22	1
Chlorodibromomethane	ND		0.50		ug/L			01/26/16 19:22	1
1,2-Dichlorobenzene	ND		0.50		ug/L			01/26/16 19:22	1
1,3-Dichlorobenzene	ND		0.50		ug/L			01/26/16 19:22	1
1,4-Dichlorobenzene	ND		0.50		ug/L			01/26/16 19:22	1
1,3-Dichloropropane	ND		1.0		ug/L			01/26/16 19:22	1
1,1-Dichloropropene	ND		0.50		ug/L			01/26/16 19:22	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			01/26/16 19:22	1

TestAmerica Pleasanton

# QC Sample Results

Client: Geologica Inc  
Project/Site: Pin High

TestAmerica Job ID: 720-69933-1

## Method: 8260B/CA\_LUFTMS - 8260B / CA LUFT MS (Continued)

**Lab Sample ID: MB 720-196293/4**  
**Matrix: Water**  
**Analysis Batch: 196293**

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide	ND		0.50		ug/L			01/26/16 19:22	1
Dibromomethane	ND		0.50		ug/L			01/26/16 19:22	1
Dichlorodifluoromethane	ND		0.50		ug/L			01/26/16 19:22	1
1,1-Dichloroethane	ND		0.50		ug/L			01/26/16 19:22	1
1,2-Dichloroethane	ND		0.50		ug/L			01/26/16 19:22	1
1,1-Dichloroethene	ND		0.50		ug/L			01/26/16 19:22	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			01/26/16 19:22	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			01/26/16 19:22	1
1,2-Dichloropropane	ND		0.50		ug/L			01/26/16 19:22	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			01/26/16 19:22	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			01/26/16 19:22	1
Ethylbenzene	ND		0.50		ug/L			01/26/16 19:22	1
Hexachlorobutadiene	ND		1.0		ug/L			01/26/16 19:22	1
2-Hexanone	ND		50		ug/L			01/26/16 19:22	1
Isopropylbenzene	ND		0.50		ug/L			01/26/16 19:22	1
4-Isopropyltoluene	ND		1.0		ug/L			01/26/16 19:22	1
Methylene Chloride	ND		5.0		ug/L			01/26/16 19:22	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			01/26/16 19:22	1
Naphthalene	ND		1.0		ug/L			01/26/16 19:22	1
N-Propylbenzene	ND		1.0		ug/L			01/26/16 19:22	1
Styrene	ND		0.50		ug/L			01/26/16 19:22	1
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			01/26/16 19:22	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			01/26/16 19:22	1
Tetrachloroethene	ND		0.50		ug/L			01/26/16 19:22	1
Toluene	ND		0.50		ug/L			01/26/16 19:22	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			01/26/16 19:22	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			01/26/16 19:22	1
1,1,1-Trichloroethane	ND		0.50		ug/L			01/26/16 19:22	1
1,1,2-Trichloroethane	ND		0.50		ug/L			01/26/16 19:22	1
Trichloroethene	ND		0.50		ug/L			01/26/16 19:22	1
Trichlorofluoromethane	ND		1.0		ug/L			01/26/16 19:22	1
1,2,3-Trichloropropane	ND		0.50		ug/L			01/26/16 19:22	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			01/26/16 19:22	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			01/26/16 19:22	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			01/26/16 19:22	1
Vinyl acetate	ND		10		ug/L			01/26/16 19:22	1
Vinyl chloride	ND		0.50		ug/L			01/26/16 19:22	1
Xylenes, Total	ND		1.0		ug/L			01/26/16 19:22	1
2,2-Dichloropropane	ND		0.50		ug/L			01/26/16 19:22	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			01/26/16 19:22	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	99		67 - 130		01/26/16 19:22	1
1,2-Dichloroethane-d4 (Surr)	118		72 - 130		01/26/16 19:22	1
Toluene-d8 (Surr)	98		70 - 130		01/26/16 19:22	1

TestAmerica Pleasanton

# QC Sample Results

Client: Geologica Inc  
Project/Site: Pin High

TestAmerica Job ID: 720-69933-1

## Method: 8260B/CA\_LUFTMS - 8260B / CA LUFT MS (Continued)

**Lab Sample ID: LCS 720-196293/5**

**Matrix: Water**

**Analysis Batch: 196293**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methyl tert-butyl ether	25.0	27.5		ug/L		110	62 - 130
Acetone	125	117		ug/L		93	26 - 180
Benzene	25.0	23.7		ug/L		95	79 - 130
Dichlorobromomethane	25.0	27.8		ug/L		111	70 - 130
Bromobenzene	25.0	25.5		ug/L		102	70 - 130
Chlorobromomethane	25.0	28.1		ug/L		112	70 - 130
Bromoform	25.0	27.5		ug/L		110	68 - 136
Bromomethane	25.0	30.2		ug/L		121	43 - 151
2-Butanone (MEK)	125	131		ug/L		105	54 - 130
n-Butylbenzene	25.0	21.4		ug/L		86	70 - 142
sec-Butylbenzene	25.0	22.8		ug/L		91	70 - 134
tert-Butylbenzene	25.0	24.2		ug/L		97	70 - 135
Carbon disulfide	25.0	28.6		ug/L		115	58 - 130
Carbon tetrachloride	25.0	31.6		ug/L		126	70 - 146
Chlorobenzene	25.0	25.2		ug/L		101	70 - 130
Chloroethane	25.0	25.5		ug/L		102	62 - 138
Chloroform	25.0	26.9		ug/L		108	70 - 130
Chloromethane	25.0	23.3		ug/L		93	52 - 175
2-Chlorotoluene	25.0	24.5		ug/L		98	70 - 130
4-Chlorotoluene	25.0	23.5		ug/L		94	70 - 130
Chlorodibromomethane	25.0	29.2		ug/L		117	70 - 145
1,2-Dichlorobenzene	25.0	24.4		ug/L		98	70 - 130
1,3-Dichlorobenzene	25.0	24.7		ug/L		99	70 - 130
1,4-Dichlorobenzene	25.0	24.6		ug/L		98	70 - 130
1,3-Dichloropropane	25.0	24.3		ug/L		97	70 - 130
1,1-Dichloropropene	25.0	25.9		ug/L		103	70 - 130
1,2-Dibromo-3-Chloropropane	25.0	23.2		ug/L		93	70 - 136
Ethylene Dibromide	25.0	25.7		ug/L		103	70 - 130
Dibromomethane	25.0	26.4		ug/L		106	70 - 130
Dichlorodifluoromethane	25.0	35.4 *		ug/L		141	34 - 132
1,1-Dichloroethane	25.0	24.0		ug/L		96	70 - 130
1,2-Dichloroethane	25.0	29.0		ug/L		116	61 - 132
1,1-Dichloroethene	25.0	26.8		ug/L		107	64 - 128
cis-1,2-Dichloroethene	25.0	25.2		ug/L		101	70 - 130
trans-1,2-Dichloroethene	25.0	25.6		ug/L		102	68 - 130
1,2-Dichloropropane	25.0	21.9		ug/L		88	70 - 130
cis-1,3-Dichloropropene	25.0	26.0		ug/L		104	70 - 130
trans-1,3-Dichloropropene	25.0	27.4		ug/L		110	70 - 140
Ethylbenzene	25.0	22.2		ug/L		89	80 - 120
Hexachlorobutadiene	25.0	26.3		ug/L		105	70 - 130
2-Hexanone	125	118		ug/L		94	60 - 164
Isopropylbenzene	25.0	23.6		ug/L		94	70 - 130
4-Isopropyltoluene	25.0	23.6		ug/L		95	70 - 130
Methylene Chloride	25.0	26.6		ug/L		106	70 - 147
4-Methyl-2-pentanone (MIBK)	125	113		ug/L		91	58 - 130
Naphthalene	25.0	21.5		ug/L		86	70 - 130
N-Propylbenzene	25.0	23.8		ug/L		95	70 - 130
Styrene	25.0	23.3		ug/L		93	70 - 130

TestAmerica Pleasanton

# QC Sample Results

Client: Geologica Inc  
Project/Site: Pin High

TestAmerica Job ID: 720-69933-1

## Method: 8260B/CA\_LUFTMS - 8260B / CA LUFT MS (Continued)

**Lab Sample ID: LCS 720-196293/5**  
**Matrix: Water**  
**Analysis Batch: 196293**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	25.0	26.4		ug/L		105	70 - 130
1,1,2,2-Tetrachloroethane	25.0	20.5		ug/L		82	70 - 130
Tetrachloroethene	25.0	26.7		ug/L		107	70 - 130
Toluene	25.0	22.1		ug/L		88	78 - 120
1,2,3-Trichlorobenzene	25.0	24.7		ug/L		99	70 - 130
1,2,4-Trichlorobenzene	25.0	25.0		ug/L		100	70 - 130
1,1,1-Trichloroethane	25.0	30.1		ug/L		120	70 - 130
1,1,2-Trichloroethane	25.0	23.8		ug/L		95	70 - 130
Trichloroethene	25.0	27.4		ug/L		110	70 - 130
Trichlorofluoromethane	25.0	33.1	*	ug/L		133	66 - 132
1,2,3-Trichloropropane	25.0	23.4		ug/L		94	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	33.0		ug/L		132	42 - 162
1,2,4-Trimethylbenzene	25.0	24.8		ug/L		99	70 - 132
1,3,5-Trimethylbenzene	25.0	23.0		ug/L		92	70 - 130
Vinyl acetate	25.0	23.2		ug/L		93	43 - 163
Vinyl chloride	25.0	26.7		ug/L		107	54 - 135
m-Xylene & p-Xylene	25.0	24.9		ug/L		100	70 - 142
o-Xylene	25.0	25.8		ug/L		103	70 - 130
2,2-Dichloropropane	25.0	29.4		ug/L		117	70 - 140

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene	101		67 - 130
1,2-Dichloroethane-d4 (Surr)	112		72 - 130
Toluene-d8 (Surr)	101		70 - 130

**Lab Sample ID: LCS 720-196293/7**  
**Matrix: Water**  
**Analysis Batch: 196293**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO) -C5-C12	500	523		ug/L		105	62 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene	97		67 - 130
1,2-Dichloroethane-d4 (Surr)	110		72 - 130
Toluene-d8 (Surr)	100		70 - 130

**Lab Sample ID: LCSD 720-196293/6**  
**Matrix: Water**  
**Analysis Batch: 196293**

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Methyl tert-butyl ether	25.0	26.8		ug/L		107	62 - 130	2	20
Acetone	125	117		ug/L		94	26 - 180	0	30
Benzene	25.0	23.5		ug/L		94	79 - 130	1	20
Dichlorobromomethane	25.0	27.4		ug/L		109	70 - 130	2	20

TestAmerica Pleasanton



# QC Sample Results

Client: Geologica Inc  
Project/Site: Pin High

TestAmerica Job ID: 720-69933-1

## Method: 8260B/CA\_LUFTMS - 8260B / CA LUFT MS (Continued)

**Lab Sample ID: LCSD 720-196293/6**  
**Matrix: Water**  
**Analysis Batch: 196293**

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Bromobenzene	25.0	25.5		ug/L		102	70 - 130	0	20
Chlorobromomethane	25.0	27.2		ug/L		109	70 - 130	3	20
Bromoform	25.0	27.5		ug/L		110	68 - 136	0	20
Bromomethane	25.0	29.5		ug/L		118	43 - 151	2	20
2-Butanone (MEK)	125	122		ug/L		97	54 - 130	7	20
n-Butylbenzene	25.0	21.4		ug/L		85	70 - 142	0	20
sec-Butylbenzene	25.0	23.1		ug/L		92	70 - 134	1	20
tert-Butylbenzene	25.0	24.2		ug/L		97	70 - 135	0	20
Carbon disulfide	25.0	28.0		ug/L		112	58 - 130	2	20
Carbon tetrachloride	25.0	30.9		ug/L		124	70 - 146	2	20
Chlorobenzene	25.0	25.4		ug/L		102	70 - 130	1	20
Chloroethane	25.0	25.0		ug/L		100	62 - 138	2	20
Chloroform	25.0	26.7		ug/L		107	70 - 130	1	20
Chloromethane	25.0	23.3		ug/L		93	52 - 175	0	20
2-Chlorotoluene	25.0	24.2		ug/L		97	70 - 130	1	20
4-Chlorotoluene	25.0	23.5		ug/L		94	70 - 130	0	20
Chlorodibromomethane	25.0	28.0		ug/L		112	70 - 145	4	20
1,2-Dichlorobenzene	25.0	24.6		ug/L		98	70 - 130	1	20
1,3-Dichlorobenzene	25.0	24.8		ug/L		99	70 - 130	0	20
1,4-Dichlorobenzene	25.0	24.7		ug/L		99	70 - 130	0	20
1,3-Dichloropropane	25.0	23.5		ug/L		94	70 - 130	3	20
1,1-Dichloropropane	25.0	25.4		ug/L		102	70 - 130	2	20
1,2-Dibromo-3-Chloropropane	25.0	23.2		ug/L		93	70 - 136	0	20
Ethylene Dibromide	25.0	25.2		ug/L		101	70 - 130	2	20
Dibromomethane	25.0	25.8		ug/L		103	70 - 130	2	20
Dichlorodifluoromethane	25.0	34.4 *		ug/L		138	34 - 132	3	20
1,1-Dichloroethane	25.0	23.7		ug/L		95	70 - 130	1	20
1,2-Dichloroethane	25.0	28.0		ug/L		112	61 - 132	3	20
1,1-Dichloroethene	25.0	26.0		ug/L		104	64 - 128	3	20
cis-1,2-Dichloroethene	25.0	24.9		ug/L		99	70 - 130	2	20
trans-1,2-Dichloroethene	25.0	25.1		ug/L		100	68 - 130	2	20
1,2-Dichloropropane	25.0	21.7		ug/L		87	70 - 130	1	20
cis-1,3-Dichloropropene	25.0	25.5		ug/L		102	70 - 130	2	20
trans-1,3-Dichloropropene	25.0	26.6		ug/L		106	70 - 140	3	20
Ethylbenzene	25.0	22.5		ug/L		90	80 - 120	1	20
Hexachlorobutadiene	25.0	25.9		ug/L		104	70 - 130	2	20
2-Hexanone	125	111		ug/L		89	60 - 164	6	20
Isopropylbenzene	25.0	23.9		ug/L		95	70 - 130	1	20
4-Isopropyltoluene	25.0	23.7		ug/L		95	70 - 130	0	20
Methylene Chloride	25.0	26.5		ug/L		106	70 - 147	0	20
4-Methyl-2-pentanone (MIBK)	125	108		ug/L		86	58 - 130	5	20
Naphthalene	25.0	21.2		ug/L		85	70 - 130	1	20
N-Propylbenzene	25.0	23.9		ug/L		96	70 - 130	1	20
Styrene	25.0	23.5		ug/L		94	70 - 130	1	20
1,1,1,2-Tetrachloroethane	25.0	26.6		ug/L		106	70 - 130	1	20
1,1,2,2-Tetrachloroethane	25.0	20.2		ug/L		81	70 - 130	1	20
Tetrachloroethene	25.0	26.3		ug/L		105	70 - 130	2	20
Toluene	25.0	22.8		ug/L		91	78 - 120	3	20

TestAmerica Pleasanton

# QC Sample Results

Client: Geologica Inc  
Project/Site: Pin High

TestAmerica Job ID: 720-69933-1

## Method: 8260B/CA\_LUFTMS - 8260B / CA LUFT MS (Continued)

**Lab Sample ID: LCSD 720-196293/6**  
**Matrix: Water**  
**Analysis Batch: 196293**

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2,3-Trichlorobenzene	25.0	24.1		ug/L		96	70 - 130	3	20
1,2,4-Trichlorobenzene	25.0	24.5		ug/L		98	70 - 130	2	20
1,1,1-Trichloroethane	25.0	29.9		ug/L		120	70 - 130	1	20
1,1,2-Trichloroethane	25.0	22.6		ug/L		90	70 - 130	5	20
Trichloroethene	25.0	27.2		ug/L		109	70 - 130	1	20
Trichlorofluoromethane	25.0	31.8		ug/L		127	66 - 132	4	20
1,2,3-Trichloropropane	25.0	23.6		ug/L		94	70 - 130	1	20
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	31.8		ug/L		127	42 - 162	4	20
1,2,4-Trimethylbenzene	25.0	24.7		ug/L		99	70 - 132	0	20
1,3,5-Trimethylbenzene	25.0	23.4		ug/L		94	70 - 130	2	20
Vinyl acetate	25.0	22.0		ug/L		88	43 - 163	5	20
Vinyl chloride	25.0	26.8		ug/L		107	54 - 135	0	20
m-Xylene & p-Xylene	25.0	25.3		ug/L		101	70 - 142	1	20
o-Xylene	25.0	25.9		ug/L		104	70 - 130	1	20
2,2-Dichloropropane	25.0	28.1		ug/L		112	70 - 140	4	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene	101		67 - 130
1,2-Dichloroethane-d4 (Surr)	109		72 - 130
Toluene-d8 (Surr)	101		70 - 130

**Lab Sample ID: LCSD 720-196293/8**  
**Matrix: Water**  
**Analysis Batch: 196293**

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C5-C12	500	557		ug/L		111	62 - 120	6	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene	101		67 - 130
1,2-Dichloroethane-d4 (Surr)	107		72 - 130
Toluene-d8 (Surr)	100		70 - 130

## Method: 8015B - Diesel Range Organics (DRO) (GC)

**Lab Sample ID: MB 720-196382/1-A**  
**Matrix: Water**  
**Analysis Batch: 196414**

**Client Sample ID: Method Blank**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 196382**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		50		ug/L		01/27/16 16:40	01/28/16 12:26	1
Motor Oil Range Organics [C24-C36]	ND		99		ug/L		01/27/16 16:40	01/28/16 12:26	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Capric Acid (Surr)	0.008		0 - 5	01/27/16 16:40	01/28/16 12:26	1

TestAmerica Pleasanton

# QC Sample Results

Client: Geologica Inc  
Project/Site: Pin High

TestAmerica Job ID: 720-69933-1

## Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

**Lab Sample ID: MB 720-196382/1-A**  
**Matrix: Water**  
**Analysis Batch: 196414**

**Client Sample ID: Method Blank**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 196382**

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
p-Terphenyl	105		31 - 150	01/27/16 16:40	01/28/16 12:26	1

**Lab Sample ID: LCS 720-196382/2-A**  
**Matrix: Water**  
**Analysis Batch: 196414**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 196382**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
p-Terphenyl	99		31 - 150

**Lab Sample ID: LCSD 720-196382/3-A**  
**Matrix: Water**  
**Analysis Batch: 196414**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 196382**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit

Surrogate	LCSD LCSD		Limits
	%Recovery	Qualifier	
p-Terphenyl	88		31 - 150

**Lab Sample ID: MB 720-196403/1-A**  
**Matrix: Solid**  
**Analysis Batch: 196415**

**Client Sample ID: Method Blank**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 196403**

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Diesel Range Organics [C10-C28]	ND		1.0		mg/Kg		01/27/16 20:37	01/29/16 00:34	1
Motor Oil Range Organics [C24-C36]	ND		50		mg/Kg		01/27/16 20:37	01/29/16 00:34	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
Capric Acid (Surr)	0		0 - 1	01/27/16 20:37	01/29/16 00:34	1
p-Terphenyl	123		38 - 148	01/27/16 20:37	01/29/16 00:34	1

**Lab Sample ID: LCS 720-196403/2-A**  
**Matrix: Solid**  
**Analysis Batch: 196415**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 196403**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
p-Terphenyl	107		38 - 148

TestAmerica Pleasanton

# QC Sample Results

Client: Geologica Inc  
Project/Site: Pin High

TestAmerica Job ID: 720-69933-1

## Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

**Lab Sample ID: MB 720-196404/1-A**  
**Matrix: Solid**  
**Analysis Batch: 196415**

**Client Sample ID: Method Blank**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 196404**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		1.0		mg/Kg		01/27/16 21:05	01/29/16 03:47	1
Motor Oil Range Organics [C24-C36]	ND		50		mg/Kg		01/27/16 21:05	01/29/16 03:47	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Capric Acid (Surr)	0.002		0 - 1	01/27/16 21:05	01/29/16 03:47	1
p-Terphenyl	94		38 - 148	01/27/16 21:05	01/29/16 03:47	1

**Lab Sample ID: LCS 720-196404/2-A**  
**Matrix: Solid**  
**Analysis Batch: 196415**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 196404**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Diesel Range Organics [C10-C28]	83.3	52.6		mg/Kg		63	36 - 112

Surrogate	LCS %Recovery	LCS Qualifier	Limits
p-Terphenyl	102		38 - 148

**Lab Sample ID: 720-69933-43 MS**  
**Matrix: Solid**  
**Analysis Batch: 196414**

**Client Sample ID: GP-10-3.5-4'**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 196404**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Diesel Range Organics [C10-C28]	400		95.2	390	4	mg/Kg	☼	-5	50 - 150

Surrogate	MS %Recovery	MS Qualifier	Limits
p-Terphenyl	0	X D	38 - 148

**Lab Sample ID: 720-69933-43 MSD**  
**Matrix: Solid**  
**Analysis Batch: 196414**

**Client Sample ID: GP-10-3.5-4'**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 196404**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	400		95.2	407	4	mg/Kg	☼	12	50 - 150	4	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
p-Terphenyl	0	X D	38 - 148

# QC Sample Results

Client: Geologica Inc  
Project/Site: Pin High

TestAmerica Job ID: 720-69933-1

## Method: 8081A - Organochlorine Pesticides (GC)

**Lab Sample ID: MB 720-196366/1-A**

**Matrix: Solid**

**Analysis Batch: 196422**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 196366**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		2.0		ug/Kg		01/27/16 15:48	01/28/16 13:41	1
Dieldrin	ND		2.0		ug/Kg		01/27/16 15:48	01/28/16 13:41	1
Endrin aldehyde	ND		2.0		ug/Kg		01/27/16 15:48	01/28/16 13:41	1
Endrin	ND		2.0		ug/Kg		01/27/16 15:48	01/28/16 13:41	1
Endrin ketone	ND		2.0		ug/Kg		01/27/16 15:48	01/28/16 13:41	1
Heptachlor	ND		2.0		ug/Kg		01/27/16 15:48	01/28/16 13:41	1
Heptachlor epoxide	ND		2.0		ug/Kg		01/27/16 15:48	01/28/16 13:41	1
4,4'-DDT	ND		2.0		ug/Kg		01/27/16 15:48	01/28/16 13:41	1
4,4'-DDE	ND		2.0		ug/Kg		01/27/16 15:48	01/28/16 13:41	1
4,4'-DDD	ND		2.0		ug/Kg		01/27/16 15:48	01/28/16 13:41	1
Endosulfan I	ND		2.0		ug/Kg		01/27/16 15:48	01/28/16 13:41	1
Endosulfan II	ND		2.0		ug/Kg		01/27/16 15:48	01/28/16 13:41	1
alpha-BHC	ND		2.0		ug/Kg		01/27/16 15:48	01/28/16 13:41	1
beta-BHC	ND		2.0		ug/Kg		01/27/16 15:48	01/28/16 13:41	1
gamma-BHC (Lindane)	ND		2.0		ug/Kg		01/27/16 15:48	01/28/16 13:41	1
delta-BHC	ND		2.0		ug/Kg		01/27/16 15:48	01/28/16 13:41	1
Endosulfan sulfate	ND		2.0		ug/Kg		01/27/16 15:48	01/28/16 13:41	1
Methoxychlor	ND		2.0		ug/Kg		01/27/16 15:48	01/28/16 13:41	1
Toxaphene	ND		40		ug/Kg		01/27/16 15:48	01/28/16 13:41	1
Chlordane (technical)	ND		40		ug/Kg		01/27/16 15:48	01/28/16 13:41	1
alpha-Chlordane	ND		2.0		ug/Kg		01/27/16 15:48	01/28/16 13:41	1
gamma-Chlordane	ND		2.0		ug/Kg		01/27/16 15:48	01/28/16 13:41	1
Hexachlorobenzene	ND		2.0		ug/Kg		01/27/16 15:48	01/28/16 13:41	1

Surrogate	MB %Recovery	MB Qualifier	Limits	D	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	99		57 - 122		01/27/16 15:48	01/28/16 13:41	1
DCB Decachlorobiphenyl	107		21 - 136		01/27/16 15:48	01/28/16 13:41	1

**Lab Sample ID: LCS 720-196366/2-A**

**Matrix: Solid**

**Analysis Batch: 196422**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 196366**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Aldrin	16.7	17.7		ug/Kg		106	65 - 120
Dieldrin	16.7	17.4		ug/Kg		104	72 - 120
Endrin aldehyde	16.7	18.4		ug/Kg		111	68 - 120
Endrin	16.7	17.9		ug/Kg		107	68 - 120
Endrin ketone	16.7	18.4		ug/Kg		110	84 - 133
Heptachlor	16.7	17.4		ug/Kg		104	69 - 120
Heptachlor epoxide	16.7	18.0		ug/Kg		108	68 - 120
4,4'-DDT	16.7	17.5		ug/Kg		105	63 - 127
4,4'-DDE	16.7	18.2		ug/Kg		109	84 - 126
4,4'-DDD	16.7	17.7		ug/Kg		106	85 - 128
Endosulfan I	16.7	17.6		ug/Kg		105	62 - 120
Endosulfan II	16.7	17.7		ug/Kg		106	65 - 120
alpha-BHC	16.7	17.2		ug/Kg		103	62 - 120
beta-BHC	16.7	18.5		ug/Kg		111	74 - 124
gamma-BHC (Lindane)	16.7	17.6		ug/Kg		105	72 - 120

TestAmerica Pleasanton

# QC Sample Results

Client: Geologica Inc  
Project/Site: Pin High

TestAmerica Job ID: 720-69933-1

## Method: 8081A - Organochlorine Pesticides (GC) (Continued)

**Lab Sample ID: LCS 720-196366/2-A**  
**Matrix: Solid**  
**Analysis Batch: 196422**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 196366**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
delta-BHC	16.7	14.5		ug/Kg		87	43 - 125
Endosulfan sulfate	16.7	17.7		ug/Kg		106	84 - 126
Methoxychlor	16.7	18.9		ug/Kg		114	71 - 132
alpha-Chlordane	16.7	17.7		ug/Kg		106	70 - 120
gamma-Chlordane	16.7	17.7		ug/Kg		106	68 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene	105		57 - 122
DCB Decachlorobiphenyl	113		21 - 136

**Lab Sample ID: 720-69933-27 MS**  
**Matrix: Solid**  
**Analysis Batch: 196422**

**Client Sample ID: GP-6-3.5-4'**  
**Prep Type: Total/NA**  
**Prep Batch: 196366**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Aldrin	ND		18.8	18.3		ug/Kg	☼	97	53 - 120
Dieldrin	11		18.8	28.8		ug/Kg	☼	93	46 - 130
Endrin aldehyde	ND		18.8	16.5		ug/Kg	☼	88	40 - 120
Endrin	ND		18.8	24.9		ug/Kg	☼	132	32 - 143
Endrin ketone	ND		18.8	18.9		ug/Kg	☼	100	40 - 120
Heptachlor	ND		18.8	17.9		ug/Kg	☼	95	52 - 120
Heptachlor epoxide	ND		18.8	19.0		ug/Kg	☼	101	40 - 120
4,4'-DDT	11		18.8	32.5		ug/Kg	☼	112	17 - 144
4,4'-DDE	18		18.8	39.4		ug/Kg	☼	115	40 - 120
4,4'-DDD	4.4		18.8	23.1		ug/Kg	☼	99	40 - 120
Endosulfan I	ND		18.8	18.8		ug/Kg	☼	100	40 - 120
Endosulfan II	ND		18.8	21.0		ug/Kg	☼	112	40 - 120
alpha-BHC	ND		18.8	18.9		ug/Kg	☼	100	40 - 120
beta-BHC	ND		18.8	21.7		ug/Kg	☼	115	40 - 120
gamma-BHC (Lindane)	ND		18.8	20.3		ug/Kg	☼	108	58 - 120
delta-BHC	ND		18.8	16.0		ug/Kg	☼	85	40 - 120
Endosulfan sulfate	ND		18.8	18.5		ug/Kg	☼	98	40 - 120
Methoxychlor	ND		18.8	18.4		ug/Kg	☼	97	40 - 120
alpha-Chlordane	ND		18.8	20.7		ug/Kg	☼	104	40 - 120
gamma-Chlordane	ND		18.8	22.6		ug/Kg	☼	111	40 - 120

Surrogate	MS %Recovery	MS Qualifier	Limits
Tetrachloro-m-xylene	109		57 - 122
DCB Decachlorobiphenyl	110		21 - 136

**Lab Sample ID: 720-69933-27 MSD**  
**Matrix: Solid**  
**Analysis Batch: 196422**

**Client Sample ID: GP-6-3.5-4'**  
**Prep Type: Total/NA**  
**Prep Batch: 196366**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Aldrin	ND		19.1	17.2		ug/Kg	☼	90	53 - 120	6	20
Dieldrin	11		19.1	30.7		ug/Kg	☼	102	46 - 130	6	20
Endrin aldehyde	ND		19.1	15.4		ug/Kg	☼	81	40 - 120	7	20

TestAmerica Pleasanton

# QC Sample Results

Client: Geologica Inc  
Project/Site: Pin High

TestAmerica Job ID: 720-69933-1

## Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 720-69933-27 MSD

Matrix: Solid

Analysis Batch: 196422

Client Sample ID: GP-6-3.5-4'

Prep Type: Total/NA

Prep Batch: 196366

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier						
Endrin	ND		19.1	25.6		ug/Kg	☼	134	32 - 143	3	20
Endrin ketone	ND		19.1	16.7		ug/Kg	☼	87	40 - 120	12	20
Heptachlor	ND		19.1	18.1		ug/Kg	☼	95	52 - 120	1	20
Heptachlor epoxide	ND		19.1	17.9		ug/Kg	☼	93	40 - 120	6	20
4,4'-DDT	11		19.1	35.3		ug/Kg	☼	126	17 - 144	8	20
4,4'-DDE	18		19.1	43.0	F1	ug/Kg	☼	132	40 - 120	9	20
4,4'-DDD	4.4		19.1	23.7		ug/Kg	☼	101	40 - 120	3	20
Endosulfan I	ND		19.1	17.6		ug/Kg	☼	92	40 - 120	7	20
Endosulfan II	ND		19.1	19.9		ug/Kg	☼	104	40 - 120	5	30
alpha-BHC	ND		19.1	17.8		ug/Kg	☼	93	40 - 120	6	20
beta-BHC	ND		19.1	20.7		ug/Kg	☼	109	40 - 120	5	20
gamma-BHC (Lindane)	ND		19.1	20.1		ug/Kg	☼	105	58 - 120	1	20
delta-BHC	ND		19.1	15.4		ug/Kg	☼	81	40 - 120	4	20
Endosulfan sulfate	ND		19.1	19.7		ug/Kg	☼	103	40 - 120	6	20
Methoxychlor	ND		19.1	17.5		ug/Kg	☼	92	40 - 120	5	20
alpha-Chlordane	ND		19.1	19.5		ug/Kg	☼	96	40 - 120	6	20
gamma-Chlordane	ND		19.1	21.9		ug/Kg	☼	106	40 - 120	3	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
Tetrachloro-m-xylene	107		57 - 122
DCB Decachlorobiphenyl	98		21 - 136

## Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 720-196367/1-A

Matrix: Solid

Analysis Batch: 196419

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 196367

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
PCB-1016	ND		50		ug/Kg		01/27/16 15:59	01/28/16 15:52	1
PCB-1221	ND		50		ug/Kg		01/27/16 15:59	01/28/16 15:52	1
PCB-1232	ND		50		ug/Kg		01/27/16 15:59	01/28/16 15:52	1
PCB-1242	ND		50		ug/Kg		01/27/16 15:59	01/28/16 15:52	1
PCB-1248	ND		50		ug/Kg		01/27/16 15:59	01/28/16 15:52	1
PCB-1254	ND		50		ug/Kg		01/27/16 15:59	01/28/16 15:52	1
PCB-1260	ND		50		ug/Kg		01/27/16 15:59	01/28/16 15:52	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	78		45 - 132	01/27/16 15:59	01/28/16 15:52	1
DCB Decachlorobiphenyl	86		42 - 146	01/27/16 15:59	01/28/16 15:52	1

Lab Sample ID: LCS 720-196367/2-A

Matrix: Solid

Analysis Batch: 196419

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 196367

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec.	Limits
		Result	Qualifier					
PCB-1016	133	108		ug/Kg		81	65 - 121	

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# QC Sample Results

Client: Geologica Inc  
Project/Site: Pin High

TestAmerica Job ID: 720-69933-1

## Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

**Lab Sample ID: LCS 720-196367/2-A**  
**Matrix: Solid**  
**Analysis Batch: 196419**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 196367**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
PCB-1260	133	114		ug/Kg		85	68 - 127
<b>Surrogate</b>	<b>%Recovery</b>	<b>LCS Qualifier</b>	<b>Limits</b>				
Tetrachloro-m-xylene	80		45 - 132				
DCB Decachlorobiphenyl	92		42 - 146				

**Lab Sample ID: 720-69933-9 MS**  
**Matrix: Solid**  
**Analysis Batch: 196419**

**Client Sample ID: GP-1-7.5-8'**  
**Prep Type: Total/NA**  
**Prep Batch: 196367**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
PCB-1016	ND		151	148		ug/Kg	☼	98	69 - 120
PCB-1260	ND		151	142		ug/Kg	☼	81	73 - 114
<b>Surrogate</b>	<b>%Recovery</b>	<b>MS Qualifier</b>	<b>Limits</b>						
Tetrachloro-m-xylene	98		45 - 132						
DCB Decachlorobiphenyl	85		42 - 146						

**Lab Sample ID: 720-69933-9 MSD**  
**Matrix: Solid**  
**Analysis Batch: 196419**

**Client Sample ID: GP-1-7.5-8'**  
**Prep Type: Total/NA**  
**Prep Batch: 196367**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
PCB-1016	ND		154	139		ug/Kg	☼	90	69 - 120	7	20
PCB-1260	ND		154	132		ug/Kg	☼	74	73 - 114	7	20
<b>Surrogate</b>	<b>%Recovery</b>	<b>MSD Qualifier</b>	<b>Limits</b>								
Tetrachloro-m-xylene	92		45 - 132								
DCB Decachlorobiphenyl	78		42 - 146								

## Method: 6010B - Metals (ICP)

**Lab Sample ID: MB 720-196275/1-A**  
**Matrix: Solid**  
**Analysis Batch: 196432**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 196275**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.50		mg/Kg		01/26/16 14:13	01/27/16 21:07	1
Arsenic	ND		1.0		mg/Kg		01/26/16 14:13	01/27/16 21:07	1
Barium	ND		0.50		mg/Kg		01/26/16 14:13	01/27/16 21:07	1
Beryllium	ND		0.10		mg/Kg		01/26/16 14:13	01/27/16 21:07	1
Cadmium	ND		0.13		mg/Kg		01/26/16 14:13	01/27/16 21:07	1
Chromium	ND		0.50		mg/Kg		01/26/16 14:13	01/27/16 21:07	1
Cobalt	ND		0.20		mg/Kg		01/26/16 14:13	01/27/16 21:07	1
Copper	ND		1.5		mg/Kg		01/26/16 14:13	01/27/16 21:07	1
Lead	ND		0.50		mg/Kg		01/26/16 14:13	01/27/16 21:07	1
Molybdenum	ND		0.50		mg/Kg		01/26/16 14:13	01/27/16 21:07	1

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# QC Sample Results

Client: Geologica Inc  
Project/Site: Pin High

TestAmerica Job ID: 720-69933-1

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

**Lab Sample ID: MB 720-196275/1-A**  
**Matrix: Solid**  
**Analysis Batch: 196432**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 196275**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nickel	ND		0.50		mg/Kg		01/26/16 14:13	01/27/16 21:07	1
Selenium	ND		1.0		mg/Kg		01/26/16 14:13	01/27/16 21:07	1
Silver	ND		0.25		mg/Kg		01/26/16 14:13	01/27/16 21:07	1
Thallium	ND		0.50		mg/Kg		01/26/16 14:13	01/27/16 21:07	1
Vanadium	ND		0.50		mg/Kg		01/26/16 14:13	01/27/16 21:07	1
Zinc	ND		1.5		mg/Kg		01/26/16 14:13	01/27/16 21:07	1

**Lab Sample ID: LCS 720-196275/2-A**  
**Matrix: Solid**  
**Analysis Batch: 196432**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 196275**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	50.0	45.7		mg/Kg		91	80 - 120
Arsenic	50.0	46.4		mg/Kg		93	80 - 120
Barium	50.0	47.9		mg/Kg		96	80 - 120
Beryllium	50.0	48.6		mg/Kg		97	80 - 120
Cadmium	50.0	47.3		mg/Kg		95	80 - 120
Chromium	50.0	48.6		mg/Kg		97	80 - 120
Cobalt	50.0	48.9		mg/Kg		98	80 - 120
Copper	50.0	48.0		mg/Kg		96	80 - 120
Lead	50.0	47.4		mg/Kg		95	80 - 120
Molybdenum	50.0	47.5		mg/Kg		95	80 - 120
Nickel	50.0	48.4		mg/Kg		97	80 - 120
Selenium	50.0	46.4		mg/Kg		93	80 - 120
Silver	25.0	23.4		mg/Kg		93	80 - 120
Thallium	50.0	47.6		mg/Kg		95	80 - 120
Vanadium	50.0	47.2		mg/Kg		94	80 - 120
Zinc	50.0	47.3		mg/Kg		95	80 - 120

**Lab Sample ID: LCSD 720-196275/3-A**  
**Matrix: Solid**  
**Analysis Batch: 196432**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 196275**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	50.0	46.1		mg/Kg		92	80 - 120	1	20
Arsenic	50.0	46.1		mg/Kg		92	80 - 120	1	20
Barium	50.0	47.9		mg/Kg		96	80 - 120	0	20
Beryllium	50.0	48.0		mg/Kg		96	80 - 120	1	20
Cadmium	50.0	46.8		mg/Kg		94	80 - 120	1	20
Chromium	50.0	47.7		mg/Kg		95	80 - 120	2	20
Cobalt	50.0	48.6		mg/Kg		97	80 - 120	1	20
Copper	50.0	47.7		mg/Kg		95	80 - 120	1	20
Lead	50.0	47.0		mg/Kg		94	80 - 120	1	20
Molybdenum	50.0	47.1		mg/Kg		94	80 - 120	1	20
Nickel	50.0	48.0		mg/Kg		96	80 - 120	1	20
Selenium	50.0	46.0		mg/Kg		92	80 - 120	1	20
Silver	25.0	23.2		mg/Kg		93	80 - 120	1	20
Thallium	50.0	47.5		mg/Kg		95	80 - 120	0	20
Vanadium	50.0	46.5		mg/Kg		93	80 - 120	2	20

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# QC Sample Results

Client: Geologica Inc  
Project/Site: Pin High

TestAmerica Job ID: 720-69933-1

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

**Lab Sample ID: LCSD 720-196275/3-A**  
**Matrix: Solid**  
**Analysis Batch: 196432**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 196275**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Zinc	50.0	46.9		mg/Kg		94	80 - 120	1	20

**Lab Sample ID: LCSSRM 720-196275/4-A**  
**Matrix: Solid**  
**Analysis Batch: 196432**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 196275**

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	Limits
Antimony	74.6	36.2		mg/Kg		49	11 - 101
Arsenic	45.5	40.3		mg/Kg		89	69 - 119
Barium	579	477		mg/Kg		82	61 - 117
Beryllium	155	141		mg/Kg		91	56 - 102
Cadmium	201	176		mg/Kg		88	67 - 118
Chromium	106	94.9		mg/Kg		90	67 - 121
Cobalt	247	224		mg/Kg		91	64 - 133
Copper	130	118		mg/Kg		91	68 - 126
Lead	302	259		mg/Kg		86	62 - 113
Molybdenum	165	140		mg/Kg		85	62 - 128
Nickel	305	273		mg/Kg		89	65 - 117
Selenium	133	121		mg/Kg		91	63 - 126
Silver	33.5	29.6		mg/Kg		88	51 - 130
Thallium	191	168		mg/Kg		88	64 - 124
Vanadium	214	189		mg/Kg		89	67 - 123
Zinc	388	336		mg/Kg		87	62 - 110

**Lab Sample ID: 720-69933-8 MS**  
**Matrix: Solid**  
**Analysis Batch: 196432**

**Client Sample ID: GP-1-3.5-4'**  
**Prep Type: Total/NA**  
**Prep Batch: 196275**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Antimony	2.5	F1	46.4	13.5	F1	mg/Kg	☼	24	75 - 125
Arsenic	8.7		46.4	49.8		mg/Kg	☼	88	75 - 125
Barium	160	F1 F2	46.4	279	F1	mg/Kg	☼	255	75 - 125
Beryllium	0.54		46.4	44.1		mg/Kg	☼	94	75 - 125
Cadmium	ND		46.4	41.8		mg/Kg	☼	90	75 - 125
Chromium	73	F1	46.4	117		mg/Kg	☼	95	75 - 125
Cobalt	17		46.4	58.3		mg/Kg	☼	89	75 - 125
Copper	36		46.4	80.5		mg/Kg	☼	96	75 - 125
Lead	14		46.4	60.7		mg/Kg	☼	101	75 - 125
Molybdenum	2.7		46.4	42.0		mg/Kg	☼	85	75 - 125
Nickel	94	F1	46.4	161	F1	mg/Kg	☼	144	75 - 125
Selenium	ND		46.4	41.2		mg/Kg	☼	89	75 - 125
Silver	ND		23.2	21.5		mg/Kg	☼	93	75 - 125
Thallium	2.1		46.4	42.7		mg/Kg	☼	87	75 - 125
Vanadium	41		46.4	87.9		mg/Kg	☼	101	75 - 125
Zinc	58		46.4	95.7		mg/Kg	☼	81	75 - 125

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# QC Sample Results

Client: Geologica Inc  
Project/Site: Pin High

TestAmerica Job ID: 720-69933-1

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

**Lab Sample ID: 720-69933-8 MSD**  
**Matrix: Solid**  
**Analysis Batch: 196432**

**Client Sample ID: GP-1-3.5-4'**  
**Prep Type: Total/NA**  
**Prep Batch: 196275**

Analyte	Sample	Sample	Spike	MSD		Unit	D	%Rec	%Rec.	Limits	RPD	Limit
	Result	Qualifier		Result	Qualifier							
Antimony	2.5	F1	46.4	11.5	F1	mg/Kg	☼	19	75 - 125	16	20	
Arsenic	8.7		46.4	49.2		mg/Kg	☼	87	75 - 125	1	20	
Barium	160	F1 F2	46.4	225	F1 F2	mg/Kg	☼	138	75 - 125	21	20	
Beryllium	0.54		46.4	44.4		mg/Kg	☼	95	75 - 125	1	20	
Cadmium	ND		46.4	42.4		mg/Kg	☼	91	75 - 125	1	20	
Chromium	73	F1	46.4	134	F1	mg/Kg	☼	131	75 - 125	13	20	
Cobalt	17		46.4	57.1		mg/Kg	☼	86	75 - 125	2	20	
Copper	36		46.4	79.0		mg/Kg	☼	93	75 - 125	2	20	
Lead	14		46.4	59.4		mg/Kg	☼	99	75 - 125	2	20	
Molybdenum	2.7		46.4	41.9		mg/Kg	☼	85	75 - 125	0	20	
Nickel	94	F1	46.4	169	F1	mg/Kg	☼	162	75 - 125	5	20	
Selenium	ND		46.4	41.4		mg/Kg	☼	89	75 - 125	0	20	
Silver	ND		23.2	22.0		mg/Kg	☼	95	75 - 125	2	20	
Thallium	2.1		46.4	42.8		mg/Kg	☼	88	75 - 125	0	20	
Vanadium	41		46.4	90.0		mg/Kg	☼	105	75 - 125	2	20	
Zinc	58		46.4	100		mg/Kg	☼	90	75 - 125	5	20	

**Lab Sample ID: MB 720-196285/1-A**  
**Matrix: Solid**  
**Analysis Batch: 196482**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 196285**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	ND		0.50		mg/Kg		01/26/16 14:58	01/28/16 18:08	1
Arsenic	ND		1.0		mg/Kg		01/26/16 14:58	01/28/16 18:08	1
Barium	ND		0.50		mg/Kg		01/26/16 14:58	01/28/16 18:08	1
Beryllium	ND		0.10		mg/Kg		01/26/16 14:58	01/28/16 18:08	1
Cadmium	ND		0.13		mg/Kg		01/26/16 14:58	01/28/16 18:08	1
Chromium	ND		0.50		mg/Kg		01/26/16 14:58	01/28/16 18:08	1
Cobalt	ND		0.20		mg/Kg		01/26/16 14:58	01/28/16 18:08	1
Copper	ND		1.5		mg/Kg		01/26/16 14:58	01/28/16 18:08	1
Lead	ND		0.50		mg/Kg		01/26/16 14:58	01/28/16 18:08	1
Molybdenum	ND		0.50		mg/Kg		01/26/16 14:58	01/28/16 18:08	1
Nickel	ND		0.50		mg/Kg		01/26/16 14:58	01/28/16 18:08	1
Selenium	ND		1.0		mg/Kg		01/26/16 14:58	01/28/16 18:08	1
Silver	ND		0.25		mg/Kg		01/26/16 14:58	01/28/16 18:08	1
Thallium	ND		0.50		mg/Kg		01/26/16 14:58	01/28/16 18:08	1
Vanadium	ND		0.50		mg/Kg		01/26/16 14:58	01/28/16 18:08	1
Zinc	ND		1.5		mg/Kg		01/26/16 14:58	01/28/16 18:08	1

**Lab Sample ID: LCS 720-196285/2-A**  
**Matrix: Solid**  
**Analysis Batch: 196482**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 196285**

Analyte	Spike	LCS		Unit	D	%Rec	%Rec.	Limits
		Added	Result					
Antimony	50.0		47.7	mg/Kg		95	80 - 120	
Arsenic	50.0		48.0	mg/Kg		96	80 - 120	
Barium	50.0		49.2	mg/Kg		98	80 - 120	
Beryllium	50.0		47.9	mg/Kg		96	80 - 120	

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# QC Sample Results

Client: Geologica Inc  
Project/Site: Pin High

TestAmerica Job ID: 720-69933-1

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

**Lab Sample ID: LCS 720-196285/2-A**  
**Matrix: Solid**  
**Analysis Batch: 196482**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 196285**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cadmium	50.0	47.7		mg/Kg		95	80 - 120
Chromium	50.0	49.1		mg/Kg		98	80 - 120
Cobalt	50.0	49.9		mg/Kg		100	80 - 120
Copper	50.0	49.2		mg/Kg		98	80 - 120
Lead	50.0	49.1		mg/Kg		98	80 - 120
Molybdenum	50.0	49.3		mg/Kg		99	80 - 120
Nickel	50.0	48.9		mg/Kg		98	80 - 120
Selenium	50.0	46.8		mg/Kg		94	80 - 120
Silver	25.0	23.9		mg/Kg		95	80 - 120
Thallium	50.0	49.8		mg/Kg		100	80 - 120
Vanadium	50.0	48.2		mg/Kg		96	80 - 120
Zinc	50.0	47.8		mg/Kg		96	80 - 120

**Lab Sample ID: LCSD 720-196285/3-A**  
**Matrix: Solid**  
**Analysis Batch: 196482**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 196285**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Antimony	50.0	47.3		mg/Kg		95	80 - 120	1	20
Arsenic	50.0	47.4		mg/Kg		95	80 - 120	1	20
Barium	50.0	48.7		mg/Kg		97	80 - 120	1	20
Beryllium	50.0	47.5		mg/Kg		95	80 - 120	1	20
Cadmium	50.0	47.1		mg/Kg		94	80 - 120	1	20
Chromium	50.0	48.6		mg/Kg		97	80 - 120	1	20
Cobalt	50.0	49.5		mg/Kg		99	80 - 120	1	20
Copper	50.0	48.7		mg/Kg		97	80 - 120	1	20
Lead	50.0	48.7		mg/Kg		97	80 - 120	1	20
Molybdenum	50.0	48.9		mg/Kg		98	80 - 120	1	20
Nickel	50.0	48.4		mg/Kg		97	80 - 120	1	20
Selenium	50.0	46.4		mg/Kg		93	80 - 120	1	20
Silver	25.0	23.6		mg/Kg		95	80 - 120	1	20
Thallium	50.0	49.1		mg/Kg		98	80 - 120	1	20
Vanadium	50.0	47.6		mg/Kg		95	80 - 120	1	20
Zinc	50.0	47.2		mg/Kg		94	80 - 120	1	20

**Lab Sample ID: LCSSRM 720-196285/4-A**  
**Matrix: Solid**  
**Analysis Batch: 196482**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 196285**

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	74.6	39.7		mg/Kg		53	11 - 101
Arsenic	45.5	42.5		mg/Kg		93	69 - 119
Barium	579	509		mg/Kg		88	61 - 117
Beryllium	155	135		mg/Kg		87	56 - 102
Cadmium	201	181		mg/Kg		90	67 - 118
Chromium	106	95.7		mg/Kg		90	67 - 121
Cobalt	247	228		mg/Kg		92	64 - 133
Copper	130	119		mg/Kg		92	68 - 126
Lead	302	265		mg/Kg		88	62 - 113

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# QC Sample Results

Client: Geologica Inc  
Project/Site: Pin High

TestAmerica Job ID: 720-69933-1

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

**Lab Sample ID: LCSSRM 720-196285/4-A**  
**Matrix: Solid**  
**Analysis Batch: 196482**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 196285**

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	Limits
Molybdenum	165	146		mg/Kg		89	62 - 128
Nickel	305	276		mg/Kg		91	65 - 117
Selenium	133	125		mg/Kg		94	63 - 126
Silver	33.5	30.8		mg/Kg		92	51 - 130
Thallium	191	171		mg/Kg		89	64 - 124
Vanadium	214	196		mg/Kg		91	67 - 123
Zinc	388	345		mg/Kg		89	62 - 110

**Lab Sample ID: 720-69933-47 MS**  
**Matrix: Solid**  
**Analysis Batch: 196482**

**Client Sample ID: GP-11-3.5-4'**  
**Prep Type: Total/NA**  
**Prep Batch: 196285**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Antimony	ND	F1 F2	57.7	10.4	F1	mg/Kg	☼	18	75 - 125
Arsenic	7.8		57.7	62.1		mg/Kg	☼	94	75 - 125
Barium	140	F1 F2	57.7	198		mg/Kg	☼	104	75 - 125
Beryllium	ND		57.7	55.3		mg/Kg	☼	95	75 - 125
Cadmium	ND		57.7	55.7		mg/Kg	☼	96	75 - 125
Chromium	480		57.7	461	4	mg/Kg	☼	-30	75 - 125
Cobalt	64		57.7	107		mg/Kg	☼	76	75 - 125
Copper	35		57.7	82.7		mg/Kg	☼	82	75 - 125
Lead	44	F1	57.7	84.7	F1	mg/Kg	☼	71	75 - 125
Molybdenum	ND		57.7	54.8		mg/Kg	☼	93	75 - 125
Nickel	1100		57.7	1010	4	mg/Kg	☼	-251	75 - 125
Selenium	ND		57.7	56.9		mg/Kg	☼	97	75 - 125
Silver	ND		28.8	28.6		mg/Kg	☼	99	75 - 125
Thallium	ND		57.7	52.5		mg/Kg	☼	91	75 - 125
Vanadium	39		57.7	90.7		mg/Kg	☼	89	75 - 125
Zinc	68	F1	57.7	111	F1	mg/Kg	☼	74	75 - 125

**Lab Sample ID: 720-69933-47 MSD**  
**Matrix: Solid**  
**Analysis Batch: 196482**

**Client Sample ID: GP-11-3.5-4'**  
**Prep Type: Total/NA**  
**Prep Batch: 196285**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Antimony	ND	F1 F2	57.7	7.82	F1 F2	mg/Kg	☼	14	75 - 125	28	20
Arsenic	7.8		57.7	63.8		mg/Kg	☼	97	75 - 125	3	20
Barium	140	F1 F2	57.7	279	F1 F2	mg/Kg	☼	244	75 - 125	34	20
Beryllium	ND		57.7	54.6		mg/Kg	☼	94	75 - 125	1	20
Cadmium	ND		57.7	55.6		mg/Kg	☼	96	75 - 125	0	20
Chromium	480		57.7	496	4	mg/Kg	☼	32	75 - 125	7	20
Cobalt	64		57.7	109		mg/Kg	☼	79	75 - 125	2	20
Copper	35		57.7	88.3		mg/Kg	☼	92	75 - 125	7	20
Lead	44	F1	57.7	93.9		mg/Kg	☼	87	75 - 125	10	20
Molybdenum	ND		57.7	52.9		mg/Kg	☼	90	75 - 125	4	20
Nickel	1100		57.7	982	4	mg/Kg	☼	-292	75 - 125	2	20
Selenium	ND		57.7	56.1		mg/Kg	☼	96	75 - 125	1	20
Silver	ND		28.8	29.4		mg/Kg	☼	102	75 - 125	3	20
Thallium	ND		57.7	51.7		mg/Kg	☼	90	75 - 125	1	20

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# QC Sample Results

Client: Geologica Inc  
Project/Site: Pin High

TestAmerica Job ID: 720-69933-1

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

**Lab Sample ID: 720-69933-47 MSD**  
**Matrix: Solid**  
**Analysis Batch: 196482**

**Client Sample ID: GP-11-3.5-4'**  
**Prep Type: Total/NA**  
**Prep Batch: 196285**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Vanadium	39		57.7	93.6		mg/Kg	☼	94	75 - 125	3	20
Zinc	68	F1	57.7	121		mg/Kg	☼	93	75 - 125	9	20

**Lab Sample ID: MB 720-196361/1-A**  
**Matrix: Water**  
**Analysis Batch: 196481**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 196361**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.010		mg/L		01/27/16 14:17	01/28/16 17:08	1
Arsenic	ND		0.010		mg/L		01/27/16 14:17	01/28/16 17:08	1
Barium	ND		0.050		mg/L		01/27/16 14:17	01/28/16 17:08	1
Beryllium	ND		0.0020		mg/L		01/27/16 14:17	01/28/16 17:08	1
Cadmium	ND		0.0020		mg/L		01/27/16 14:17	01/28/16 17:08	1
Chromium	ND		0.010		mg/L		01/27/16 14:17	01/28/16 17:08	1
Cobalt	ND		0.0020		mg/L		01/27/16 14:17	01/28/16 17:08	1
Copper	ND		0.020		mg/L		01/27/16 14:17	01/28/16 17:08	1
Lead	ND		0.0050		mg/L		01/27/16 14:17	01/28/16 17:08	1
Molybdenum	ND		0.010		mg/L		01/27/16 14:17	01/28/16 17:08	1
Nickel	ND		0.010		mg/L		01/27/16 14:17	01/28/16 17:08	1
Selenium	ND		0.020		mg/L		01/27/16 14:17	01/28/16 17:08	1
Silver	ND		0.0050		mg/L		01/27/16 14:17	01/28/16 17:08	1
Thallium	ND		0.010		mg/L		01/27/16 14:17	01/28/16 17:08	1
Vanadium	ND		0.010		mg/L		01/27/16 14:17	01/28/16 17:08	1
Zinc	ND		0.020		mg/L		01/27/16 14:17	01/28/16 17:08	1

**Lab Sample ID: LCS 720-196361/2-A**  
**Matrix: Water**  
**Analysis Batch: 196481**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 196361**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	1.00	0.935		mg/L		93	
Arsenic	1.00	0.910		mg/L		91	
Barium	1.00	0.963		mg/L		96	
Beryllium	1.00	0.926		mg/L		93	
Cadmium	1.00	0.927		mg/L		93	
Chromium	1.00	0.935		mg/L		94	
Cobalt	1.00	0.950		mg/L		95	
Copper	1.00	0.935		mg/L		93	
Lead	1.00	0.922		mg/L		92	
Molybdenum	1.00	0.910		mg/L		91	
Nickel	1.00	0.952		mg/L		95	
Selenium	1.00	0.956		mg/L		96	
Silver	0.500	0.461		mg/L		92	
Thallium	1.00	0.907		mg/L		91	
Vanadium	1.00	0.898		mg/L		90	
Zinc	1.00	0.966		mg/L		97	

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# QC Sample Results

Client: Geologica Inc  
Project/Site: Pin High

TestAmerica Job ID: 720-69933-1

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

Lab Sample ID: LCSD 720-196361/3-A

Matrix: Water

Analysis Batch: 196481

Client Sample ID: Lab Control Sample Dup

Prep Type: Total Recoverable

Prep Batch: 196361

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	1.00	0.907		mg/L		91		3	
Arsenic	1.00	0.907		mg/L		91		0	
Barium	1.00	0.966		mg/L		97		0	
Beryllium	1.00	0.928		mg/L		93		0	
Cadmium	1.00	0.925		mg/L		93		0	
Chromium	1.00	0.942		mg/L		94		1	
Cobalt	1.00	0.946		mg/L		95		0	
Copper	1.00	0.943		mg/L		94		1	
Lead	1.00	0.916		mg/L		92		1	
Molybdenum	1.00	0.909		mg/L		91		0	
Nickel	1.00	0.952		mg/L		95		0	
Selenium	1.00	0.959		mg/L		96		0	
Silver	0.500	0.463		mg/L		93		0	
Thallium	1.00	0.913		mg/L		91		1	
Vanadium	1.00	0.898		mg/L		90		0	
Zinc	1.00	0.968		mg/L		97		0	

Lab Sample ID: MB 720-196284/1-B

Matrix: Water

Analysis Batch: 196481

Client Sample ID: Method Blank

Prep Type: Dissolved

Prep Batch: 196361

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.010		mg/L		01/27/16 14:17	01/28/16 17:13	1
Arsenic	ND		0.010		mg/L		01/27/16 14:17	01/28/16 17:13	1
Barium	ND		0.050		mg/L		01/27/16 14:17	01/28/16 17:13	1
Beryllium	ND		0.0020		mg/L		01/27/16 14:17	01/28/16 17:13	1
Cadmium	ND		0.0020		mg/L		01/27/16 14:17	01/28/16 17:13	1
Chromium	ND		0.010		mg/L		01/27/16 14:17	01/28/16 17:13	1
Cobalt	ND		0.0020		mg/L		01/27/16 14:17	01/28/16 17:13	1
Copper	ND		0.020		mg/L		01/27/16 14:17	01/28/16 17:13	1
Lead	ND		0.0050		mg/L		01/27/16 14:17	01/28/16 17:13	1
Molybdenum	ND		0.010		mg/L		01/27/16 14:17	01/28/16 17:13	1
Nickel	ND		0.010		mg/L		01/27/16 14:17	01/28/16 17:13	1
Selenium	ND		0.020		mg/L		01/27/16 14:17	01/28/16 17:13	1
Silver	ND		0.0050		mg/L		01/27/16 14:17	01/28/16 17:13	1
Thallium	ND		0.010		mg/L		01/27/16 14:17	01/28/16 17:13	1
Vanadium	ND		0.010		mg/L		01/27/16 14:17	01/28/16 17:13	1
Zinc	ND		0.020		mg/L		01/27/16 14:17	01/28/16 17:13	1

Lab Sample ID: 720-69933-1 MS

Matrix: Water

Analysis Batch: 196481

Client Sample ID: GP-1

Prep Type: Dissolved

Prep Batch: 196361

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	ND		1.00	0.949		mg/L		95	
Arsenic	ND		1.00	0.980		mg/L		97	
Barium	ND		1.00	1.00		mg/L		97	
Beryllium	ND		1.00	0.936		mg/L		94	

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# QC Sample Results

Client: Geologica Inc  
Project/Site: Pin High

TestAmerica Job ID: 720-69933-1

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

**Lab Sample ID: 720-69933-1 MS**  
**Matrix: Water**  
**Analysis Batch: 196481**

**Client Sample ID: GP-1**  
**Prep Type: Dissolved**  
**Prep Batch: 196361**  
**%Rec.**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Cadmium	ND		1.00	0.926		mg/L		92	
Chromium	ND		1.00	0.944		mg/L		94	
Cobalt	0.0038		1.00	0.928		mg/L		92	
Copper	ND		1.00	0.940		mg/L		94	
Lead	ND		1.00	0.885		mg/L		89	
Molybdenum	0.049		1.00	0.972		mg/L		92	
Nickel	0.010		1.00	0.934		mg/L		92	
Selenium	ND		1.00	0.991		mg/L		99	
Silver	ND		0.500	0.479		mg/L		96	
Thallium	ND		1.00	0.836		mg/L		83	
Vanadium	ND		1.00	0.925		mg/L		92	
Zinc	ND		1.00	0.993		mg/L		99	

**Lab Sample ID: 720-69933-1 MSD**  
**Matrix: Water**  
**Analysis Batch: 196481**

**Client Sample ID: GP-1**  
**Prep Type: Dissolved**  
**Prep Batch: 196361**  
**%Rec.**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Antimony	ND		1.00	0.957		mg/L		96		1	
Arsenic	ND		1.00	0.973		mg/L		97		1	
Barium	ND		1.00	1.01		mg/L		97		1	
Beryllium	ND		1.00	0.944		mg/L		94		1	
Cadmium	ND		1.00	0.924		mg/L		92		0	
Chromium	ND		1.00	0.939		mg/L		94		1	
Cobalt	0.0038		1.00	0.925		mg/L		92		0	
Copper	ND		1.00	0.937		mg/L		94		0	
Lead	ND		1.00	0.878		mg/L		88		1	
Molybdenum	0.049		1.00	0.969		mg/L		92		0	
Nickel	0.010		1.00	0.935		mg/L		92		0	
Selenium	ND		1.00	0.989		mg/L		99		0	
Silver	ND		0.500	0.480		mg/L		96		0	
Thallium	ND		1.00	0.832		mg/L		83		1	
Vanadium	ND		1.00	0.919		mg/L		91		1	
Zinc	ND		1.00	0.990		mg/L		99		0	

## Method: 7470A - Mercury (CVAA)

**Lab Sample ID: MB 720-196443/1-A**  
**Matrix: Water**  
**Analysis Batch: 196474**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 196443**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020		mg/L		01/28/16 12:32	01/28/16 17:14	1

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# QC Sample Results

Client: Geologica Inc  
Project/Site: Pin High

TestAmerica Job ID: 720-69933-1

## Method: 7470A - Mercury (CVAA) (Continued)

**Lab Sample ID:** LCS 720-196443/2-A  
**Matrix:** Water  
**Analysis Batch:** 196474

**Client Sample ID:** Lab Control Sample  
**Prep Type:** Total/NA  
**Prep Batch:** 196443

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.0100	0.00994		mg/L		99	85 - 115

**Lab Sample ID:** LCSD 720-196443/3-A  
**Matrix:** Water  
**Analysis Batch:** 196474

**Client Sample ID:** Lab Control Sample Dup  
**Prep Type:** Total/NA  
**Prep Batch:** 196443

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Mercury	0.0100	0.00980		mg/L		98	85 - 115	1	20

**Lab Sample ID:** MB 720-196284/1-C  
**Matrix:** Water  
**Analysis Batch:** 196474

**Client Sample ID:** Method Blank  
**Prep Type:** Dissolved  
**Prep Batch:** 196443

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020		mg/L		01/28/16 12:32	01/28/16 17:33	1

## Method: 7471A - Mercury (CVAA)

**Lab Sample ID:** MB 720-196308/1-A  
**Matrix:** Solid  
**Analysis Batch:** 196381

**Client Sample ID:** Method Blank  
**Prep Type:** Total/NA  
**Prep Batch:** 196308

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.010		mg/Kg		01/26/16 17:30	01/27/16 16:19	1

**Lab Sample ID:** LCS 720-196308/2-A  
**Matrix:** Solid  
**Analysis Batch:** 196381

**Client Sample ID:** Lab Control Sample  
**Prep Type:** Total/NA  
**Prep Batch:** 196308

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.833	0.850		mg/Kg		102	80 - 120

**Lab Sample ID:** LCSD 720-196308/3-A  
**Matrix:** Solid  
**Analysis Batch:** 196381

**Client Sample ID:** Lab Control Sample Dup  
**Prep Type:** Total/NA  
**Prep Batch:** 196308

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Mercury	0.833	0.842		mg/Kg		101	80 - 120	1	20

**Lab Sample ID:** MB 720-196312/1-A  
**Matrix:** Solid  
**Analysis Batch:** 196405

**Client Sample ID:** Method Blank  
**Prep Type:** Total/NA  
**Prep Batch:** 196312

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.010		mg/Kg		01/26/16 18:10	01/27/16 19:43	1

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# QC Sample Results

Client: Geologica Inc  
Project/Site: Pin High

TestAmerica Job ID: 720-69933-1

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

**Lab Sample ID: LCS 720-196312/2-A**  
**Matrix: Solid**  
**Analysis Batch: 196405**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 196312**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.833	0.842		mg/Kg		101	80 - 120

**Lab Sample ID: LCSD 720-196312/3-A**  
**Matrix: Solid**  
**Analysis Batch: 196405**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 196312**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Mercury	0.833	0.833		mg/Kg		100	80 - 120	1	20

**Lab Sample ID: 720-69933-44 MS**  
**Matrix: Solid**  
**Analysis Batch: 196405**

**Client Sample ID: GP-10-7.5-8'**  
**Prep Type: Total/NA**  
**Prep Batch: 196312**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Mercury	0.11	F1	1.01	1.38	F1	mg/Kg	☼	126	75 - 125

**Lab Sample ID: 720-69933-44 MSD**  
**Matrix: Solid**  
**Analysis Batch: 196405**

**Client Sample ID: GP-10-7.5-8'**  
**Prep Type: Total/NA**  
**Prep Batch: 196312**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Mercury	0.11	F1	1.05	1.32		mg/Kg	☼	116	75 - 125	5	20

## Method: Moisture - Percent Moisture

**Lab Sample ID: 720-69933-9 DU**  
**Matrix: Solid**  
**Analysis Batch: 196337**

**Client Sample ID: GP-1-7.5-8'**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Percent Moisture	14		12		%		10	20

**Lab Sample ID: 720-69933-48 DU**  
**Matrix: Solid**  
**Analysis Batch: 196350**

**Client Sample ID: GP-11-7.5-8'**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Percent Moisture	21		20		%		1	20

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# QC Association Summary

Client: Geologica Inc  
Project/Site: Pin High

TestAmerica Job ID: 720-69933-1

## GC/MS VOA

### Analysis Batch: 196192

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-69933-7	TRIP BLANK	Total/NA	Water	8260B	
LCS 720-196192/5	Lab Control Sample	Total/NA	Water	8260B	
LCS 720-196192/6	Lab Control Sample Dup	Total/NA	Water	8260B	
MB 720-196192/4	Method Blank	Total/NA	Water	8260B	

### Prep Batch: 196202

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-69933-9	GP-1-7.5-8'	Total/NA	Solid	5030B	
720-69933-12	GP-2-3.5-4'	Total/NA	Solid	5030B	
720-69933-12 MS	GP-2-3.5-4'	Total/NA	Solid	5030B	
720-69933-12 MSD	GP-2-3.5-4'	Total/NA	Solid	5030B	
720-69933-16	GP-3-7.5-8'	Total/NA	Solid	5030B	
720-69933-19	GP-4-3.5-4'	Total/NA	Solid	5030B	
720-69933-23	GP-5-4.5-5'	Total/NA	Solid	5030B	
720-69933-32	GP-7-7.5-8'	Total/NA	Solid	5030B	

### Analysis Batch: 196234

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-69933-1	GP-1	Total/NA	Water	8260B/CA_LUFT MS	
720-69933-2	GP-2	Total/NA	Water	8260B/CA_LUFT MS	
720-69933-3	GP-3	Total/NA	Water	8260B/CA_LUFT MS	
720-69933-4	GP-6	Total/NA	Water	8260B/CA_LUFT MS	
LCS 720-196234/14	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
LCS 720-196234/5	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
LCS 720-196234/15	Lab Control Sample Dup	Total/NA	Water	8260B/CA_LUFT MS	
LCS 720-196234/6	Lab Control Sample Dup	Total/NA	Water	8260B/CA_LUFT MS	
MB 720-196234/4	Method Blank	Total/NA	Water	8260B/CA_LUFT MS	

### Analysis Batch: 196288

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-69933-9	GP-1-7.5-8'	Total/NA	Solid	8260B	196202
720-69933-16	GP-3-7.5-8'	Total/NA	Solid	8260B	196202
LCS 720-196288/5	Lab Control Sample	Total/NA	Solid	8260B	
LCS 720-196288/7	Lab Control Sample	Total/NA	Solid	8260B	
LCS 720-196288/6	Lab Control Sample Dup	Total/NA	Solid	8260B	
LCS 720-196288/8	Lab Control Sample Dup	Total/NA	Solid	8260B	
MB 720-196288/4	Method Blank	Total/NA	Solid	8260B	

### Analysis Batch: 196293

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-69933-5	GP-7	Total/NA	Water	8260B/CA_LUFT MS	
720-69933-6	GP-10	Total/NA	Water	8260B/CA_LUFT MS	

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# QC Association Summary

Client: Geologica Inc  
Project/Site: Pin High

TestAmerica Job ID: 720-69933-1

## GC/MS VOA (Continued)

### Analysis Batch: 196293 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 720-196293/5	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
LCS 720-196293/7	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
LCSD 720-196293/6	Lab Control Sample Dup	Total/NA	Water	8260B/CA_LUFT MS	
LCSD 720-196293/8	Lab Control Sample Dup	Total/NA	Water	8260B/CA_LUFT MS	
MB 720-196293/4	Method Blank	Total/NA	Water	8260B/CA_LUFT MS	

### Prep Batch: 196295

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-69933-8	GP-1-3.5-4'	Total/NA	Solid	5030B	
720-69933-13	GP-2-7.5-8'	Total/NA	Solid	5030B	
720-69933-15	GP-3-3.5-4'	Total/NA	Solid	5030B	
720-69933-24	GP-5-7.5-8'	Total/NA	Solid	5030B	
720-69933-27	GP-6-3.5-4'	Total/NA	Solid	5030B	
720-69933-31	GP-7-3.5-4'	Total/NA	Solid	5030B	
720-69933-35	GP-8-3.5-4'	Total/NA	Solid	5030B	
720-69933-35 MS	GP-8-3.5-4'	Total/NA	Solid	5030B	
720-69933-35 MSD	GP-8-3.5-4'	Total/NA	Solid	5030B	
720-69933-43	GP-10-3.5-4'	Total/NA	Solid	5030B	

### Analysis Batch: 196326

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-69933-12	GP-2-3.5-4'	Total/NA	Solid	8260B	196202
720-69933-12 MS	GP-2-3.5-4'	Total/NA	Solid	8260B	196202
720-69933-12 MSD	GP-2-3.5-4'	Total/NA	Solid	8260B	196202
720-69933-19	GP-4-3.5-4'	Total/NA	Solid	8260B	196202
720-69933-23	GP-5-4.5-5'	Total/NA	Solid	8260B	196202
720-69933-32	GP-7-7.5-8'	Total/NA	Solid	8260B	196202
LCS 720-196326/5	Lab Control Sample	Total/NA	Solid	8260B	
LCS 720-196326/7	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 720-196326/6	Lab Control Sample Dup	Total/NA	Solid	8260B	
LCSD 720-196326/8	Lab Control Sample Dup	Total/NA	Solid	8260B	
MB 720-196326/4	Method Blank	Total/NA	Solid	8260B	

### Analysis Batch: 196408

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-69933-8	GP-1-3.5-4'	Total/NA	Solid	8260B	196295
720-69933-13	GP-2-7.5-8'	Total/NA	Solid	8260B	196295
720-69933-15	GP-3-3.5-4'	Total/NA	Solid	8260B	196295
720-69933-31	GP-7-3.5-4'	Total/NA	Solid	8260B	196295
720-69933-35	GP-8-3.5-4'	Total/NA	Solid	8260B	196295
720-69933-35 MS	GP-8-3.5-4'	Total/NA	Solid	8260B	196295
720-69933-35 MSD	GP-8-3.5-4'	Total/NA	Solid	8260B	196295
LCS 720-196408/5	Lab Control Sample	Total/NA	Solid	8260B	
LCS 720-196408/7	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 720-196408/6	Lab Control Sample Dup	Total/NA	Solid	8260B	
LCSD 720-196408/8	Lab Control Sample Dup	Total/NA	Solid	8260B	
MB 720-196408/4	Method Blank	Total/NA	Solid	8260B	

TestAmerica Pleasanton

# QC Association Summary

Client: Geologica Inc  
Project/Site: Pin High

TestAmerica Job ID: 720-69933-1

## Analysis Batch: 196468

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-69933-24	GP-5-7.5-8'	Total/NA	Solid	8260B	196295
720-69933-27	GP-6-3.5-4'	Total/NA	Solid	8260B	196295
720-69933-43	GP-10-3.5-4'	Total/NA	Solid	8260B	196295
LCS 720-196468/5	Lab Control Sample	Total/NA	Solid	8260B	
LCS 720-196468/7	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 720-196468/6	Lab Control Sample Dup	Total/NA	Solid	8260B	
LCSD 720-196468/8	Lab Control Sample Dup	Total/NA	Solid	8260B	
MB 720-196468/4	Method Blank	Total/NA	Solid	8260B	

## Analysis Batch: 196552

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-69933-28	GP-6-7.5-8'	Total/NA	Solid	8260B	196561
720-69933-36	GP-8-7.5-8'	Total/NA	Solid	8260B	196561
720-69933-36 MS	GP-8-7.5-8'	Total/NA	Solid	8260B	196561
720-69933-36 MSD	GP-8-7.5-8'	Total/NA	Solid	8260B	196561
720-69933-39	GP-9-4.5-5'	Total/NA	Solid	8260B	196561
720-69933-40	GP-9-7.5-8'	Total/NA	Solid	8260B	196561
720-69933-44	GP-10-7.5-8'	Total/NA	Solid	8260B	196561
720-69933-47	GP-11-3.5-4'	Total/NA	Solid	8260B	196561
720-69933-48	GP-11-7.5-8'	Total/NA	Solid	8260B	196561
LCS 720-196552/5	Lab Control Sample	Total/NA	Solid	8260B	
LCS 720-196552/7	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 720-196552/6	Lab Control Sample Dup	Total/NA	Solid	8260B	
LCSD 720-196552/8	Lab Control Sample Dup	Total/NA	Solid	8260B	
MB 720-196552/4	Method Blank	Total/NA	Solid	8260B	

## Prep Batch: 196561

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-69933-28	GP-6-7.5-8'	Total/NA	Solid	5030B	
720-69933-36	GP-8-7.5-8'	Total/NA	Solid	5030B	
720-69933-36 MS	GP-8-7.5-8'	Total/NA	Solid	5030B	
720-69933-36 MSD	GP-8-7.5-8'	Total/NA	Solid	5030B	
720-69933-39	GP-9-4.5-5'	Total/NA	Solid	5030B	
720-69933-40	GP-9-7.5-8'	Total/NA	Solid	5030B	
720-69933-44	GP-10-7.5-8'	Total/NA	Solid	5030B	
720-69933-47	GP-11-3.5-4'	Total/NA	Solid	5030B	
720-69933-48	GP-11-7.5-8'	Total/NA	Solid	5030B	

## GC Semi VOA

### Prep Batch: 196366

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-69933-8	GP-1-3.5-4'	Total/NA	Solid	3546	
720-69933-9	GP-1-7.5-8'	Total/NA	Solid	3546	
720-69933-27	GP-6-3.5-4'	Total/NA	Solid	3546	
720-69933-27 MS	GP-6-3.5-4'	Total/NA	Solid	3546	
720-69933-27 MSD	GP-6-3.5-4'	Total/NA	Solid	3546	
720-69933-28	GP-6-7.5-8'	Total/NA	Solid	3546	
720-69933-35	GP-8-3.5-4'	Total/NA	Solid	3546	
720-69933-36	GP-8-7.5-8'	Total/NA	Solid	3546	
720-69933-43	GP-10-3.5-4'	Total/NA	Solid	3546	
720-69933-44	GP-10-7.5-8'	Total/NA	Solid	3546	
LCS 720-196366/2-A	Lab Control Sample	Total/NA	Solid	3546	

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# QC Association Summary

Client: Geologica Inc  
Project/Site: Pin High

TestAmerica Job ID: 720-69933-1

## GC Semi VOA (Continued)

### Prep Batch: 196366 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 720-196366/1-A	Method Blank	Total/NA	Solid	3546	

### Prep Batch: 196367

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-69933-8	GP-1-3.5-4'	Total/NA	Solid	3546	
720-69933-9	GP-1-7.5-8'	Total/NA	Solid	3546	
720-69933-9 MS	GP-1-7.5-8'	Total/NA	Solid	3546	
720-69933-9 MSD	GP-1-7.5-8'	Total/NA	Solid	3546	
720-69933-27	GP-6-3.5-4'	Total/NA	Solid	3546	
720-69933-28	GP-6-7.5-8'	Total/NA	Solid	3546	
720-69933-35	GP-8-3.5-4'	Total/NA	Solid	3546	
720-69933-36	GP-8-7.5-8'	Total/NA	Solid	3546	
720-69933-43	GP-10-3.5-4'	Total/NA	Solid	3546	
720-69933-44	GP-10-7.5-8'	Total/NA	Solid	3546	
LCS 720-196367/2-A	Lab Control Sample	Total/NA	Solid	3546	
MB 720-196367/1-A	Method Blank	Total/NA	Solid	3546	

### Prep Batch: 196382

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-69933-1	GP-1	Silica Gel Cleanup	Water	3510C SGC	
720-69933-2	GP-2	Silica Gel Cleanup	Water	3510C SGC	
720-69933-3	GP-3	Silica Gel Cleanup	Water	3510C SGC	
720-69933-4	GP-6	Silica Gel Cleanup	Water	3510C SGC	
720-69933-5	GP-7	Silica Gel Cleanup	Water	3510C SGC	
720-69933-6	GP-10	Silica Gel Cleanup	Water	3510C SGC	
LCS 720-196382/2-A	Lab Control Sample	Silica Gel Cleanup	Water	3510C SGC	
LCSD 720-196382/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Water	3510C SGC	
MB 720-196382/1-A	Method Blank	Silica Gel Cleanup	Water	3510C SGC	

### Prep Batch: 196403

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-69933-8	GP-1-3.5-4'	Silica Gel Cleanup	Solid	3546	
720-69933-9	GP-1-7.5-8'	Silica Gel Cleanup	Solid	3546	
720-69933-13	GP-2-7.5-8'	Silica Gel Cleanup	Solid	3546	
720-69933-15	GP-3-3.5-4'	Silica Gel Cleanup	Solid	3546	
720-69933-27	GP-6-3.5-4'	Silica Gel Cleanup	Solid	3546	
720-69933-28	GP-6-7.5-8'	Silica Gel Cleanup	Solid	3546	
720-69933-31	GP-7-3.5-4'	Silica Gel Cleanup	Solid	3546	
720-69933-35	GP-8-3.5-4'	Silica Gel Cleanup	Solid	3546	
720-69933-36	GP-8-7.5-8'	Silica Gel Cleanup	Solid	3546	
LCS 720-196403/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	3546	
MB 720-196403/1-A	Method Blank	Silica Gel Cleanup	Solid	3546	

### Prep Batch: 196404

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-69933-12	GP-2-3.5-4'	Silica Gel Cleanup	Solid	3546	
720-69933-16	GP-3-7.5-8'	Silica Gel Cleanup	Solid	3546	
720-69933-19	GP-4-3.5-4'	Silica Gel Cleanup	Solid	3546	
720-69933-23	GP-5-4.5-5'	Silica Gel Cleanup	Solid	3546	
720-69933-24	GP-5-7.5-8'	Silica Gel Cleanup	Solid	3546	
720-69933-32	GP-7-7.5-8'	Silica Gel Cleanup	Solid	3546	

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# QC Association Summary

Client: Geologica Inc  
Project/Site: Pin High

TestAmerica Job ID: 720-69933-1

## GC Semi VOA (Continued)

### Prep Batch: 196404 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-69933-39	GP-9-4.5-5'	Silica Gel Cleanup	Solid	3546	
720-69933-40	GP-9-7.5-8'	Silica Gel Cleanup	Solid	3546	
720-69933-43	GP-10-3.5-4'	Silica Gel Cleanup	Solid	3546	
720-69933-43 MS	GP-10-3.5-4'	Silica Gel Cleanup	Solid	3546	
720-69933-43 MSD	GP-10-3.5-4'	Silica Gel Cleanup	Solid	3546	
720-69933-44	GP-10-7.5-8'	Silica Gel Cleanup	Solid	3546	
720-69933-47	GP-11-3.5-4'	Silica Gel Cleanup	Solid	3546	
720-69933-48	GP-11-7.5-8'	Silica Gel Cleanup	Solid	3546	
LCS 720-196404/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	3546	
MB 720-196404/1-A	Method Blank	Silica Gel Cleanup	Solid	3546	

### Analysis Batch: 196412

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-69933-8	GP-1-3.5-4'	Silica Gel Cleanup	Solid	8015B	196403

### Analysis Batch: 196413

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-69933-19	GP-4-3.5-4'	Silica Gel Cleanup	Solid	8015B	196404
720-69933-23	GP-5-4.5-5'	Silica Gel Cleanup	Solid	8015B	196404
720-69933-24	GP-5-7.5-8'	Silica Gel Cleanup	Solid	8015B	196404
720-69933-27	GP-6-3.5-4'	Silica Gel Cleanup	Solid	8015B	196403
720-69933-28	GP-6-7.5-8'	Silica Gel Cleanup	Solid	8015B	196403
720-69933-31	GP-7-3.5-4'	Silica Gel Cleanup	Solid	8015B	196403
720-69933-32	GP-7-7.5-8'	Silica Gel Cleanup	Solid	8015B	196404
720-69933-35	GP-8-3.5-4'	Silica Gel Cleanup	Solid	8015B	196403
720-69933-36	GP-8-7.5-8'	Silica Gel Cleanup	Solid	8015B	196403
720-69933-39	GP-9-4.5-5'	Silica Gel Cleanup	Solid	8015B	196404
720-69933-40	GP-9-7.5-8'	Silica Gel Cleanup	Solid	8015B	196404
720-69933-44	GP-10-7.5-8'	Silica Gel Cleanup	Solid	8015B	196404
720-69933-48	GP-11-7.5-8'	Silica Gel Cleanup	Solid	8015B	196404

### Analysis Batch: 196414

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-69933-1	GP-1	Silica Gel Cleanup	Water	8015B	196382
720-69933-2	GP-2	Silica Gel Cleanup	Water	8015B	196382
720-69933-3	GP-3	Silica Gel Cleanup	Water	8015B	196382
720-69933-4	GP-6	Silica Gel Cleanup	Water	8015B	196382
720-69933-5	GP-7	Silica Gel Cleanup	Water	8015B	196382
720-69933-6	GP-10	Silica Gel Cleanup	Water	8015B	196382
720-69933-12	GP-2-3.5-4'	Silica Gel Cleanup	Solid	8015B	196404
720-69933-13	GP-2-7.5-8'	Silica Gel Cleanup	Solid	8015B	196403
720-69933-15	GP-3-3.5-4'	Silica Gel Cleanup	Solid	8015B	196403
720-69933-43	GP-10-3.5-4'	Silica Gel Cleanup	Solid	8015B	196404
720-69933-43 MS	GP-10-3.5-4'	Silica Gel Cleanup	Solid	8015B	196404
720-69933-43 MSD	GP-10-3.5-4'	Silica Gel Cleanup	Solid	8015B	196404
LCS 720-196382/2-A	Lab Control Sample	Silica Gel Cleanup	Water	8015B	196382
LCSD 720-196382/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Water	8015B	196382
MB 720-196382/1-A	Method Blank	Silica Gel Cleanup	Water	8015B	196382

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# QC Association Summary

Client: Geologica Inc  
Project/Site: Pin High

TestAmerica Job ID: 720-69933-1

## GC Semi VOA (Continued)

### Analysis Batch: 196415

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-69933-9	GP-1-7.5-8'	Silica Gel Cleanup	Solid	8015B	196403
720-69933-16	GP-3-7.5-8'	Silica Gel Cleanup	Solid	8015B	196404
720-69933-47	GP-11-3.5-4'	Silica Gel Cleanup	Solid	8015B	196404
LCS 720-196403/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	8015B	196403
LCS 720-196404/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	8015B	196404
MB 720-196403/1-A	Method Blank	Silica Gel Cleanup	Solid	8015B	196403
MB 720-196404/1-A	Method Blank	Silica Gel Cleanup	Solid	8015B	196404

### Analysis Batch: 196419

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-69933-8	GP-1-3.5-4'	Total/NA	Solid	8082	196367
720-69933-9	GP-1-7.5-8'	Total/NA	Solid	8082	196367
720-69933-9 MS	GP-1-7.5-8'	Total/NA	Solid	8082	196367
720-69933-9 MSD	GP-1-7.5-8'	Total/NA	Solid	8082	196367
720-69933-27	GP-6-3.5-4'	Total/NA	Solid	8082	196367
720-69933-28	GP-6-7.5-8'	Total/NA	Solid	8082	196367
720-69933-35	GP-8-3.5-4'	Total/NA	Solid	8082	196367
720-69933-36	GP-8-7.5-8'	Total/NA	Solid	8082	196367
720-69933-43	GP-10-3.5-4'	Total/NA	Solid	8082	196367
720-69933-44	GP-10-7.5-8'	Total/NA	Solid	8082	196367
LCS 720-196367/2-A	Lab Control Sample	Total/NA	Solid	8082	196367
MB 720-196367/1-A	Method Blank	Total/NA	Solid	8082	196367

### Analysis Batch: 196422

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-69933-8	GP-1-3.5-4'	Total/NA	Solid	8081A	196366
720-69933-9	GP-1-7.5-8'	Total/NA	Solid	8081A	196366
720-69933-27	GP-6-3.5-4'	Total/NA	Solid	8081A	196366
720-69933-27 MS	GP-6-3.5-4'	Total/NA	Solid	8081A	196366
720-69933-27 MSD	GP-6-3.5-4'	Total/NA	Solid	8081A	196366
720-69933-28	GP-6-7.5-8'	Total/NA	Solid	8081A	196366
720-69933-35	GP-8-3.5-4'	Total/NA	Solid	8081A	196366
720-69933-36	GP-8-7.5-8'	Total/NA	Solid	8081A	196366
720-69933-43	GP-10-3.5-4'	Total/NA	Solid	8081A	196366
720-69933-44	GP-10-7.5-8'	Total/NA	Solid	8081A	196366
LCS 720-196366/2-A	Lab Control Sample	Total/NA	Solid	8081A	196366
MB 720-196366/1-A	Method Blank	Total/NA	Solid	8081A	196366

## Metals

### Prep Batch: 196275

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-69933-8	GP-1-3.5-4'	Total/NA	Solid	3050B	
720-69933-8 MS	GP-1-3.5-4'	Total/NA	Solid	3050B	
720-69933-8 MSD	GP-1-3.5-4'	Total/NA	Solid	3050B	
720-69933-9	GP-1-7.5-8'	Total/NA	Solid	3050B	
720-69933-12	GP-2-3.5-4'	Total/NA	Solid	3050B	
720-69933-13	GP-2-7.5-8'	Total/NA	Solid	3050B	
720-69933-15	GP-3-3.5-4'	Total/NA	Solid	3050B	
720-69933-16	GP-3-7.5-8'	Total/NA	Solid	3050B	

TestAmerica Pleasanton

# QC Association Summary

Client: Geologica Inc  
Project/Site: Pin High

TestAmerica Job ID: 720-69933-1

## Metals (Continued)

### Prep Batch: 196275 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-69933-19	GP-4-3.5-4'	Total/NA	Solid	3050B	
720-69933-23	GP-5-4.5-5'	Total/NA	Solid	3050B	
720-69933-24	GP-5-7.5-8'	Total/NA	Solid	3050B	
720-69933-27	GP-6-3.5-4'	Total/NA	Solid	3050B	
720-69933-28	GP-6-7.5-8'	Total/NA	Solid	3050B	
720-69933-31	GP-7-3.5-4'	Total/NA	Solid	3050B	
720-69933-32	GP-7-7.5-8'	Total/NA	Solid	3050B	
720-69933-35	GP-8-3.5-4'	Total/NA	Solid	3050B	
720-69933-36	GP-8-7.5-8'	Total/NA	Solid	3050B	
720-69933-39	GP-9-4.5-5'	Total/NA	Solid	3050B	
720-69933-40	GP-9-7.5-8'	Total/NA	Solid	3050B	
720-69933-43	GP-10-3.5-4'	Total/NA	Solid	3050B	
720-69933-44	GP-10-7.5-8'	Total/NA	Solid	3050B	
LCS 720-196275/2-A	Lab Control Sample	Total/NA	Solid	3050B	
LCSD 720-196275/3-A	Lab Control Sample Dup	Total/NA	Solid	3050B	
LCSSRM 720-196275/4-A	Lab Control Sample	Total/NA	Solid	3050B	
MB 720-196275/1-A	Method Blank	Total/NA	Solid	3050B	

### Filtration Batch: 196284

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-69933-1	GP-1	Dissolved	Water	FILTRATION	
720-69933-1 MS	GP-1	Dissolved	Water	FILTRATION	
720-69933-1 MSD	GP-1	Dissolved	Water	FILTRATION	
720-69933-2	GP-2	Dissolved	Water	FILTRATION	
720-69933-3	GP-3	Dissolved	Water	FILTRATION	
720-69933-4	GP-6	Dissolved	Water	FILTRATION	
720-69933-5	GP-7	Dissolved	Water	FILTRATION	
720-69933-6	GP-10	Dissolved	Water	FILTRATION	
MB 720-196284/1-B	Method Blank	Dissolved	Water	FILTRATION	
MB 720-196284/1-C	Method Blank	Dissolved	Water	FILTRATION	

### Prep Batch: 196285

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-69933-47	GP-11-3.5-4'	Total/NA	Solid	3050B	
720-69933-47 MS	GP-11-3.5-4'	Total/NA	Solid	3050B	
720-69933-47 MSD	GP-11-3.5-4'	Total/NA	Solid	3050B	
720-69933-48	GP-11-7.5-8'	Total/NA	Solid	3050B	
LCS 720-196285/2-A	Lab Control Sample	Total/NA	Solid	3050B	
LCSD 720-196285/3-A	Lab Control Sample Dup	Total/NA	Solid	3050B	
LCSSRM 720-196285/4-A	Lab Control Sample	Total/NA	Solid	3050B	
MB 720-196285/1-A	Method Blank	Total/NA	Solid	3050B	

### Prep Batch: 196308

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-69933-8	GP-1-3.5-4'	Total/NA	Solid	7471A	
720-69933-9	GP-1-7.5-8'	Total/NA	Solid	7471A	
720-69933-12	GP-2-3.5-4'	Total/NA	Solid	7471A	
720-69933-13	GP-2-7.5-8'	Total/NA	Solid	7471A	
720-69933-15	GP-3-3.5-4'	Total/NA	Solid	7471A	
720-69933-16	GP-3-7.5-8'	Total/NA	Solid	7471A	
720-69933-19	GP-4-3.5-4'	Total/NA	Solid	7471A	

TestAmerica Pleasanton

# QC Association Summary

Client: Geologica Inc  
Project/Site: Pin High

TestAmerica Job ID: 720-69933-1

## Metals (Continued)

### Prep Batch: 196308 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-69933-23	GP-5-4.5-5'	Total/NA	Solid	7471A	
720-69933-24	GP-5-7.5-8'	Total/NA	Solid	7471A	
720-69933-27	GP-6-3.5-4'	Total/NA	Solid	7471A	
720-69933-28	GP-6-7.5-8'	Total/NA	Solid	7471A	
720-69933-31	GP-7-3.5-4'	Total/NA	Solid	7471A	
720-69933-32	GP-7-7.5-8'	Total/NA	Solid	7471A	
720-69933-35	GP-8-3.5-4'	Total/NA	Solid	7471A	
720-69933-36	GP-8-7.5-8'	Total/NA	Solid	7471A	
720-69933-39	GP-9-4.5-5'	Total/NA	Solid	7471A	
720-69933-40	GP-9-7.5-8'	Total/NA	Solid	7471A	
720-69933-43	GP-10-3.5-4'	Total/NA	Solid	7471A	
LCS 720-196308/2-A	Lab Control Sample	Total/NA	Solid	7471A	
LCSD 720-196308/3-A	Lab Control Sample Dup	Total/NA	Solid	7471A	
MB 720-196308/1-A	Method Blank	Total/NA	Solid	7471A	

### Prep Batch: 196312

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-69933-44	GP-10-7.5-8'	Total/NA	Solid	7471A	
720-69933-44 MS	GP-10-7.5-8'	Total/NA	Solid	7471A	
720-69933-44 MSD	GP-10-7.5-8'	Total/NA	Solid	7471A	
720-69933-47	GP-11-3.5-4'	Total/NA	Solid	7471A	
720-69933-48	GP-11-7.5-8'	Total/NA	Solid	7471A	
LCS 720-196312/2-A	Lab Control Sample	Total/NA	Solid	7471A	
LCSD 720-196312/3-A	Lab Control Sample Dup	Total/NA	Solid	7471A	
MB 720-196312/1-A	Method Blank	Total/NA	Solid	7471A	

### Prep Batch: 196361

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-69933-1	GP-1	Dissolved	Water	3005A	196284
720-69933-1 MS	GP-1	Dissolved	Water	3005A	196284
720-69933-1 MSD	GP-1	Dissolved	Water	3005A	196284
720-69933-2	GP-2	Dissolved	Water	3005A	196284
720-69933-3	GP-3	Dissolved	Water	3005A	196284
720-69933-4	GP-6	Dissolved	Water	3005A	196284
720-69933-5	GP-7	Dissolved	Water	3005A	196284
720-69933-6	GP-10	Dissolved	Water	3005A	196284
LCS 720-196361/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
LCSD 720-196361/3-A	Lab Control Sample Dup	Total Recoverable	Water	3005A	
MB 720-196284/1-B	Method Blank	Dissolved	Water	3005A	196284
MB 720-196361/1-A	Method Blank	Total Recoverable	Water	3005A	

### Analysis Batch: 196381

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 720-196308/2-A	Lab Control Sample	Total/NA	Solid	7471A	196308
LCSD 720-196308/3-A	Lab Control Sample Dup	Total/NA	Solid	7471A	196308
MB 720-196308/1-A	Method Blank	Total/NA	Solid	7471A	196308

### Analysis Batch: 196393

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-69933-8	GP-1-3.5-4'	Total/NA	Solid	7471A	196308
720-69933-9	GP-1-7.5-8'	Total/NA	Solid	7471A	196308

TestAmerica Pleasanton

# QC Association Summary

Client: Geologica Inc  
Project/Site: Pin High

TestAmerica Job ID: 720-69933-1

## Metals (Continued)

### Analysis Batch: 196393 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-69933-12	GP-2-3.5-4'	Total/NA	Solid	7471A	196308
720-69933-13	GP-2-7.5-8'	Total/NA	Solid	7471A	196308
720-69933-15	GP-3-3.5-4'	Total/NA	Solid	7471A	196308
720-69933-16	GP-3-7.5-8'	Total/NA	Solid	7471A	196308
720-69933-19	GP-4-3.5-4'	Total/NA	Solid	7471A	196308
720-69933-23	GP-5-4.5-5'	Total/NA	Solid	7471A	196308
720-69933-24	GP-5-7.5-8'	Total/NA	Solid	7471A	196308
720-69933-27	GP-6-3.5-4'	Total/NA	Solid	7471A	196308
720-69933-28	GP-6-7.5-8'	Total/NA	Solid	7471A	196308
720-69933-31	GP-7-3.5-4'	Total/NA	Solid	7471A	196308
720-69933-32	GP-7-7.5-8'	Total/NA	Solid	7471A	196308
720-69933-35	GP-8-3.5-4'	Total/NA	Solid	7471A	196308
720-69933-36	GP-8-7.5-8'	Total/NA	Solid	7471A	196308
720-69933-39	GP-9-4.5-5'	Total/NA	Solid	7471A	196308
720-69933-40	GP-9-7.5-8'	Total/NA	Solid	7471A	196308
720-69933-43	GP-10-3.5-4'	Total/NA	Solid	7471A	196308

### Analysis Batch: 196405

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-69933-44	GP-10-7.5-8'	Total/NA	Solid	7471A	196312
720-69933-44 MS	GP-10-7.5-8'	Total/NA	Solid	7471A	196312
720-69933-44 MSD	GP-10-7.5-8'	Total/NA	Solid	7471A	196312
720-69933-47	GP-11-3.5-4'	Total/NA	Solid	7471A	196312
720-69933-48	GP-11-7.5-8'	Total/NA	Solid	7471A	196312
LCS 720-196312/2-A	Lab Control Sample	Total/NA	Solid	7471A	196312
LCSD 720-196312/3-A	Lab Control Sample Dup	Total/NA	Solid	7471A	196312
MB 720-196312/1-A	Method Blank	Total/NA	Solid	7471A	196312

### Analysis Batch: 196432

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-69933-8	GP-1-3.5-4'	Total/NA	Solid	6010B	196275
720-69933-8 MS	GP-1-3.5-4'	Total/NA	Solid	6010B	196275
720-69933-8 MSD	GP-1-3.5-4'	Total/NA	Solid	6010B	196275
720-69933-9	GP-1-7.5-8'	Total/NA	Solid	6010B	196275
720-69933-12	GP-2-3.5-4'	Total/NA	Solid	6010B	196275
720-69933-13	GP-2-7.5-8'	Total/NA	Solid	6010B	196275
720-69933-15	GP-3-3.5-4'	Total/NA	Solid	6010B	196275
720-69933-16	GP-3-7.5-8'	Total/NA	Solid	6010B	196275
720-69933-19	GP-4-3.5-4'	Total/NA	Solid	6010B	196275
720-69933-23	GP-5-4.5-5'	Total/NA	Solid	6010B	196275
720-69933-24	GP-5-7.5-8'	Total/NA	Solid	6010B	196275
720-69933-27	GP-6-3.5-4'	Total/NA	Solid	6010B	196275
720-69933-28	GP-6-7.5-8'	Total/NA	Solid	6010B	196275
720-69933-31	GP-7-3.5-4'	Total/NA	Solid	6010B	196275
720-69933-32	GP-7-7.5-8'	Total/NA	Solid	6010B	196275
720-69933-35	GP-8-3.5-4'	Total/NA	Solid	6010B	196275
720-69933-36	GP-8-7.5-8'	Total/NA	Solid	6010B	196275
720-69933-39	GP-9-4.5-5'	Total/NA	Solid	6010B	196275
720-69933-40	GP-9-7.5-8'	Total/NA	Solid	6010B	196275
720-69933-43	GP-10-3.5-4'	Total/NA	Solid	6010B	196275
720-69933-44	GP-10-7.5-8'	Total/NA	Solid	6010B	196275

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# QC Association Summary

Client: Geologica Inc  
Project/Site: Pin High

TestAmerica Job ID: 720-69933-1

## Metals (Continued)

### Analysis Batch: 196432 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 720-196275/2-A	Lab Control Sample	Total/NA	Solid	6010B	196275
LCSD 720-196275/3-A	Lab Control Sample Dup	Total/NA	Solid	6010B	196275
LCSSRM 720-196275/4-A	Lab Control Sample	Total/NA	Solid	6010B	196275
MB 720-196275/1-A	Method Blank	Total/NA	Solid	6010B	196275

### Prep Batch: 196443

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-69933-1	GP-1	Dissolved	Water	7470A	196284
720-69933-2	GP-2	Dissolved	Water	7470A	196284
720-69933-3	GP-3	Dissolved	Water	7470A	196284
720-69933-4	GP-6	Dissolved	Water	7470A	196284
720-69933-5	GP-7	Dissolved	Water	7470A	196284
720-69933-6	GP-10	Dissolved	Water	7470A	196284
LCS 720-196443/2-A	Lab Control Sample	Total/NA	Water	7470A	
LCSD 720-196443/3-A	Lab Control Sample Dup	Total/NA	Water	7470A	
MB 720-196284/1-C	Method Blank	Dissolved	Water	7470A	196284
MB 720-196443/1-A	Method Blank	Total/NA	Water	7470A	

### Analysis Batch: 196472

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-69933-9	GP-1-7.5-8'	Total/NA	Solid	6010B	196275
720-69933-12	GP-2-3.5-4'	Total/NA	Solid	6010B	196275
720-69933-19	GP-4-3.5-4'	Total/NA	Solid	6010B	196275
720-69933-23	GP-5-4.5-5'	Total/NA	Solid	6010B	196275
720-69933-27	GP-6-3.5-4'	Total/NA	Solid	6010B	196275
720-69933-43	GP-10-3.5-4'	Total/NA	Solid	6010B	196275

### Analysis Batch: 196474

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-69933-1	GP-1	Dissolved	Water	7470A	196443
720-69933-2	GP-2	Dissolved	Water	7470A	196443
720-69933-3	GP-3	Dissolved	Water	7470A	196443
720-69933-4	GP-6	Dissolved	Water	7470A	196443
720-69933-5	GP-7	Dissolved	Water	7470A	196443
720-69933-6	GP-10	Dissolved	Water	7470A	196443
LCS 720-196443/2-A	Lab Control Sample	Total/NA	Water	7470A	196443
LCSD 720-196443/3-A	Lab Control Sample Dup	Total/NA	Water	7470A	196443
MB 720-196284/1-C	Method Blank	Dissolved	Water	7470A	196443
MB 720-196443/1-A	Method Blank	Total/NA	Water	7470A	196443

### Analysis Batch: 196481

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-69933-1	GP-1	Dissolved	Water	6010B	196361
720-69933-1 MS	GP-1	Dissolved	Water	6010B	196361
720-69933-1 MSD	GP-1	Dissolved	Water	6010B	196361
720-69933-2	GP-2	Dissolved	Water	6010B	196361
720-69933-3	GP-3	Dissolved	Water	6010B	196361
720-69933-4	GP-6	Dissolved	Water	6010B	196361
720-69933-5	GP-7	Dissolved	Water	6010B	196361
720-69933-6	GP-10	Dissolved	Water	6010B	196361
LCS 720-196361/2-A	Lab Control Sample	Total Recoverable	Water	6010B	196361

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# QC Association Summary

Client: Geologica Inc  
Project/Site: Pin High

TestAmerica Job ID: 720-69933-1

## Metals (Continued)

### Analysis Batch: 196481 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 720-196361/3-A	Lab Control Sample Dup	Total Recoverable	Water	6010B	196361
MB 720-196284/1-B	Method Blank	Dissolved	Water	6010B	196361
MB 720-196361/1-A	Method Blank	Total Recoverable	Water	6010B	196361

### Analysis Batch: 196482

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-69933-47	GP-11-3.5-4'	Total/NA	Solid	6010B	196285
720-69933-47 MS	GP-11-3.5-4'	Total/NA	Solid	6010B	196285
720-69933-47 MSD	GP-11-3.5-4'	Total/NA	Solid	6010B	196285
720-69933-48	GP-11-7.5-8'	Total/NA	Solid	6010B	196285
LCS 720-196285/2-A	Lab Control Sample	Total/NA	Solid	6010B	196285
LCSD 720-196285/3-A	Lab Control Sample Dup	Total/NA	Solid	6010B	196285
LCSSRM 720-196285/4-A	Lab Control Sample	Total/NA	Solid	6010B	196285
MB 720-196285/1-A	Method Blank	Total/NA	Solid	6010B	196285

## General Chemistry

### Analysis Batch: 196337

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-69933-8	GP-1-3.5-4'	Total/NA	Solid	Moisture	
720-69933-9	GP-1-7.5-8'	Total/NA	Solid	Moisture	
720-69933-9 DU	GP-1-7.5-8'	Total/NA	Solid	Moisture	
720-69933-12	GP-2-3.5-4'	Total/NA	Solid	Moisture	
720-69933-13	GP-2-7.5-8'	Total/NA	Solid	Moisture	
720-69933-15	GP-3-3.5-4'	Total/NA	Solid	Moisture	
720-69933-16	GP-3-7.5-8'	Total/NA	Solid	Moisture	
720-69933-19	GP-4-3.5-4'	Total/NA	Solid	Moisture	
720-69933-23	GP-5-4.5-5'	Total/NA	Solid	Moisture	
720-69933-24	GP-5-7.5-8'	Total/NA	Solid	Moisture	
720-69933-27	GP-6-3.5-4'	Total/NA	Solid	Moisture	
720-69933-28	GP-6-7.5-8'	Total/NA	Solid	Moisture	
720-69933-31	GP-7-3.5-4'	Total/NA	Solid	Moisture	
720-69933-32	GP-7-7.5-8'	Total/NA	Solid	Moisture	
720-69933-35	GP-8-3.5-4'	Total/NA	Solid	Moisture	
720-69933-36	GP-8-7.5-8'	Total/NA	Solid	Moisture	
720-69933-39	GP-9-4.5-5'	Total/NA	Solid	Moisture	
720-69933-40	GP-9-7.5-8'	Total/NA	Solid	Moisture	
720-69933-43	GP-10-3.5-4'	Total/NA	Solid	Moisture	
720-69933-44	GP-10-7.5-8'	Total/NA	Solid	Moisture	
720-69933-47	GP-11-3.5-4'	Total/NA	Solid	Moisture	

### Analysis Batch: 196350

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-69933-48	GP-11-7.5-8'	Total/NA	Solid	Moisture	
720-69933-48 DU	GP-11-7.5-8'	Total/NA	Solid	Moisture	

# Lab Chronicle

Client: Geologica Inc  
Project/Site: Pin High

TestAmerica Job ID: 720-69933-1

## Client Sample ID: GP-1

Date Collected: 01/21/16 15:00

Date Received: 01/22/16 17:10

## Lab Sample ID: 720-69933-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		1	196234	01/26/16 15:19	LPL	TAL PLS
Silica Gel Cleanup	Prep	3510C SGC			196382	01/27/16 16:40	BSY	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	196414	01/28/16 14:53	JXL	TAL PLS
Dissolved	Filtration	FILTRATION			196284	01/26/16 09:40	ASB	TAL PLS
Dissolved	Prep	3005A			196361	01/27/16 14:17	ASB	TAL PLS
Dissolved	Analysis	6010B		1	196481	01/28/16 17:44	CAM	TAL PLS
Dissolved	Filtration	FILTRATION			196284	01/26/16 09:40	ASB	TAL PLS
Dissolved	Prep	7470A			196443	01/28/16 12:32	ASB	TAL PLS
Dissolved	Analysis	7470A		1	196474	01/28/16 17:36	SLK	TAL PLS

## Client Sample ID: GP-2

Date Collected: 01/21/16 12:00

Date Received: 01/22/16 17:10

## Lab Sample ID: 720-69933-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		1	196234	01/26/16 15:47	LPL	TAL PLS
Silica Gel Cleanup	Prep	3510C SGC			196382	01/27/16 16:40	BSY	TAL PLS
Silica Gel Cleanup	Analysis	8015B		5	196414	01/28/16 16:55	JXL	TAL PLS
Dissolved	Filtration	FILTRATION			196284	01/26/16 09:40	ASB	TAL PLS
Dissolved	Prep	3005A			196361	01/27/16 14:17	ASB	TAL PLS
Dissolved	Analysis	6010B		1	196481	01/28/16 17:49	CAM	TAL PLS
Dissolved	Filtration	FILTRATION			196284	01/26/16 09:40	ASB	TAL PLS
Dissolved	Prep	7470A			196443	01/28/16 12:32	ASB	TAL PLS
Dissolved	Analysis	7470A		1	196474	01/28/16 17:43	SLK	TAL PLS

## Client Sample ID: GP-3

Date Collected: 01/21/16 14:10

Date Received: 01/22/16 17:10

## Lab Sample ID: 720-69933-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		1	196234	01/26/16 16:14	LPL	TAL PLS
Silica Gel Cleanup	Prep	3510C SGC			196382	01/27/16 16:40	BSY	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	196414	01/28/16 15:42	JXL	TAL PLS
Dissolved	Filtration	FILTRATION			196284	01/26/16 09:40	ASB	TAL PLS
Dissolved	Prep	3005A			196361	01/27/16 14:17	ASB	TAL PLS
Dissolved	Analysis	6010B		1	196481	01/28/16 17:54	CAM	TAL PLS
Dissolved	Filtration	FILTRATION			196284	01/26/16 09:40	ASB	TAL PLS
Dissolved	Prep	7470A			196443	01/28/16 12:32	ASB	TAL PLS
Dissolved	Analysis	7470A		1	196474	01/28/16 17:45	SLK	TAL PLS

TestAmerica Pleasanton

# Lab Chronicle

Client: Geologica Inc  
Project/Site: Pin High

TestAmerica Job ID: 720-69933-1

**Client Sample ID: GP-6**

**Date Collected: 01/21/16 16:55**

**Date Received: 01/22/16 17:10**

**Lab Sample ID: 720-69933-4**

**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		1	196234	01/26/16 16:42	LPL	TAL PLS
Silica Gel Cleanup	Prep	3510C SGC			196382	01/27/16 16:40	BSY	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	196414	01/28/16 16:06	JXL	TAL PLS
Dissolved	Filtration	FILTRATION			196284	01/26/16 09:40	ASB	TAL PLS
Dissolved	Prep	3005A			196361	01/27/16 14:17	ASB	TAL PLS
Dissolved	Analysis	6010B		1	196481	01/28/16 18:10	CAM	TAL PLS
Dissolved	Filtration	FILTRATION			196284	01/26/16 09:40	ASB	TAL PLS
Dissolved	Prep	7470A			196443	01/28/16 12:32	ASB	TAL PLS
Dissolved	Analysis	7470A		1	196474	01/28/16 17:48	SLK	TAL PLS

**Client Sample ID: GP-7**

**Date Collected: 01/22/16 09:10**

**Date Received: 01/22/16 17:10**

**Lab Sample ID: 720-69933-5**

**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		1	196293	01/27/16 04:14	JRM	TAL PLS
Silica Gel Cleanup	Prep	3510C SGC			196382	01/27/16 16:40	BSY	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	196414	01/28/16 16:30	JXL	TAL PLS
Dissolved	Filtration	FILTRATION			196284	01/26/16 09:40	ASB	TAL PLS
Dissolved	Prep	3005A			196361	01/27/16 14:17	ASB	TAL PLS
Dissolved	Analysis	6010B		1	196481	01/28/16 18:15	CAM	TAL PLS
Dissolved	Filtration	FILTRATION			196284	01/26/16 09:40	ASB	TAL PLS
Dissolved	Prep	7470A			196443	01/28/16 12:32	ASB	TAL PLS
Dissolved	Analysis	7470A		1	196474	01/28/16 17:50	SLK	TAL PLS

**Client Sample ID: GP-10**

**Date Collected: 01/22/16 11:50**

**Date Received: 01/22/16 17:10**

**Lab Sample ID: 720-69933-6**

**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		1	196293	01/27/16 04:42	JRM	TAL PLS
Silica Gel Cleanup	Prep	3510C SGC			196382	01/27/16 16:40	BSY	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	196414	01/28/16 15:18	JXL	TAL PLS
Dissolved	Filtration	FILTRATION			196284	01/26/16 09:40	ASB	TAL PLS
Dissolved	Prep	3005A			196361	01/27/16 14:17	ASB	TAL PLS
Dissolved	Analysis	6010B		1	196481	01/28/16 18:20	CAM	TAL PLS
Dissolved	Filtration	FILTRATION			196284	01/26/16 09:40	ASB	TAL PLS
Dissolved	Prep	7470A			196443	01/28/16 12:32	ASB	TAL PLS
Dissolved	Analysis	7470A		1	196474	01/28/16 17:52	SLK	TAL PLS

TestAmerica Pleasanton

# Lab Chronicle

Client: Geologica Inc  
Project/Site: Pin High

TestAmerica Job ID: 720-69933-1

**Client Sample ID: TRIP BLANK**

**Lab Sample ID: 720-69933-7**

**Date Collected: 01/22/16 12:30**

**Matrix: Water**

**Date Received: 01/22/16 17:10**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	196192	01/26/16 01:36	YB1	TAL PLS

**Client Sample ID: GP-1-3.5-4'**

**Lab Sample ID: 720-69933-8**

**Date Collected: 01/21/16 10:25**

**Matrix: Solid**

**Date Received: 01/22/16 17:10**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	196337	01/27/16 09:39	NVP	TAL PLS

**Client Sample ID: GP-1-3.5-4'**

**Lab Sample ID: 720-69933-8**

**Date Collected: 01/21/16 10:25**

**Matrix: Solid**

**Date Received: 01/22/16 17:10**

**Percent Solids: 86.9**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			196295	01/27/16 18:59	JRM	TAL PLS
Total/NA	Analysis	8260B		1	196408	01/28/16 14:59	YB1	TAL PLS
Silica Gel Cleanup	Prep	3546			196403	01/27/16 20:37	AFM	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	196412	01/29/16 02:34	JXL	TAL PLS
Total/NA	Prep	3546			196366	01/27/16 15:48	KMK	TAL PLS
Total/NA	Analysis	8081A		1	196422	01/28/16 16:29	JZT	TAL PLS
Total/NA	Prep	3546			196367	01/27/16 15:59	KMK	TAL PLS
Total/NA	Analysis	8082		1	196419	01/28/16 17:15	DCH	TAL PLS
Total/NA	Prep	3050B			196275	01/26/16 14:13	MJD	TAL PLS
Total/NA	Analysis	6010B		4	196432	01/27/16 21:42	SLK	TAL PLS
Total/NA	Prep	7471A			196308	01/26/16 17:30	ASB	TAL PLS
Total/NA	Analysis	7471A		1	196393	01/27/16 17:00	SLK	TAL PLS

**Client Sample ID: GP-1-7.5-8'**

**Lab Sample ID: 720-69933-9**

**Date Collected: 01/21/16 10:26**

**Matrix: Solid**

**Date Received: 01/22/16 17:10**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	196337	01/27/16 09:39	NVP	TAL PLS

**Client Sample ID: GP-1-7.5-8'**

**Lab Sample ID: 720-69933-9**

**Date Collected: 01/21/16 10:26**

**Matrix: Solid**

**Date Received: 01/22/16 17:10**

**Percent Solids: 86.3**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			196202	01/25/16 19:58	JRM	TAL PLS
Total/NA	Analysis	8260B		1	196288	01/27/16 04:39	PRD	TAL PLS
Silica Gel Cleanup	Prep	3546			196403	01/27/16 20:37	AFM	TAL PLS
Silica Gel Cleanup	Analysis	8015B		10	196415	01/28/16 22:58	JXL	TAL PLS

TestAmerica Pleasanton

# Lab Chronicle

Client: Geologica Inc  
Project/Site: Pin High

TestAmerica Job ID: 720-69933-1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			196366	01/27/16 15:48	KMK	TAL PLS
Total/NA	Analysis	8081A		2	196422	01/28/16 18:44	JZT	TAL PLS
Total/NA	Prep	3546			196367	01/27/16 15:59	KMK	TAL PLS
Total/NA	Analysis	8082		1	196419	01/28/16 16:58	DCH	TAL PLS
Total/NA	Prep	3050B			196275	01/26/16 14:13	MJD	TAL PLS
Total/NA	Analysis	6010B		4	196432	01/27/16 21:47	SLK	TAL PLS
Total/NA	Prep	3050B			196275	01/26/16 14:13	MJD	TAL PLS
Total/NA	Analysis	6010B		1	196472	01/28/16 16:02	SLK	TAL PLS
Total/NA	Prep	7471A			196308	01/26/16 17:30	ASB	TAL PLS
Total/NA	Analysis	7471A		1	196393	01/27/16 17:02	SLK	TAL PLS

Client Sample ID: GP-2-3.5-4'

Lab Sample ID: 720-69933-12

Date Collected: 01/21/16 11:40

Matrix: Solid

Date Received: 01/22/16 17:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	196337	01/27/16 09:39	NVP	TAL PLS

Client Sample ID: GP-2-3.5-4'

Lab Sample ID: 720-69933-12

Date Collected: 01/21/16 11:40

Matrix: Solid

Date Received: 01/22/16 17:10

Percent Solids: 73.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			196202	01/25/16 19:58	JRM	TAL PLS
Total/NA	Analysis	8260B		1	196326	01/27/16 12:37	YB1	TAL PLS
Silica Gel Cleanup	Prep	3546			196404	01/27/16 21:05	AFM	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	196414	01/29/16 02:10	JXL	TAL PLS
Total/NA	Prep	3050B			196275	01/26/16 14:13	MJD	TAL PLS
Total/NA	Analysis	6010B		4	196432	01/27/16 21:52	SLK	TAL PLS
Total/NA	Prep	3050B			196275	01/26/16 14:13	MJD	TAL PLS
Total/NA	Analysis	6010B		1	196472	01/28/16 16:07	SLK	TAL PLS
Total/NA	Prep	7471A			196308	01/26/16 17:30	ASB	TAL PLS
Total/NA	Analysis	7471A		1	196393	01/27/16 17:04	SLK	TAL PLS

Client Sample ID: GP-2-7.5-8'

Lab Sample ID: 720-69933-13

Date Collected: 01/21/16 11:42

Matrix: Solid

Date Received: 01/22/16 17:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	196337	01/27/16 09:39	NVP	TAL PLS

Client Sample ID: GP-2-7.5-8'

Lab Sample ID: 720-69933-13

Date Collected: 01/21/16 11:42

Matrix: Solid

Date Received: 01/22/16 17:10

Percent Solids: 76.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			196295	01/27/16 18:59	JRM	TAL PLS

TestAmerica Pleasanton

# Lab Chronicle

Client: Geologica Inc  
Project/Site: Pin High

TestAmerica Job ID: 720-69933-1

**Client Sample ID: GP-2-7.5-8'**

**Lab Sample ID: 720-69933-13**

**Date Collected: 01/21/16 11:42**

**Matrix: Solid**

**Date Received: 01/22/16 17:10**

**Percent Solids: 76.9**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	196408	01/28/16 15:28	YB1	TAL PLS
Silica Gel Cleanup	Prep	3546			196403	01/27/16 20:37	AFM	TAL PLS
Silica Gel Cleanup	Analysis	8015B		20	196414	01/28/16 23:22	JXL	TAL PLS
Total/NA	Prep	3050B			196275	01/26/16 14:13	MJD	TAL PLS
Total/NA	Analysis	6010B		4	196432	01/27/16 22:07	SLK	TAL PLS
Total/NA	Prep	7471A			196308	01/26/16 17:30	ASB	TAL PLS
Total/NA	Analysis	7471A		1	196393	01/27/16 17:07	SLK	TAL PLS

**Client Sample ID: GP-3-3.5-4'**

**Lab Sample ID: 720-69933-15**

**Date Collected: 01/21/16 13:45**

**Matrix: Solid**

**Date Received: 01/22/16 17:10**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	196337	01/27/16 09:39	NVP	TAL PLS

**Client Sample ID: GP-3-3.5-4'**

**Lab Sample ID: 720-69933-15**

**Date Collected: 01/21/16 13:45**

**Matrix: Solid**

**Date Received: 01/22/16 17:10**

**Percent Solids: 89.7**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			196295	01/27/16 18:59	JRM	TAL PLS
Total/NA	Analysis	8260B		1	196408	01/28/16 15:57	YB1	TAL PLS
Silica Gel Cleanup	Prep	3546			196403	01/27/16 20:37	AFM	TAL PLS
Silica Gel Cleanup	Analysis	8015B		10	196414	01/28/16 23:46	JXL	TAL PLS
Total/NA	Prep	3050B			196275	01/26/16 14:13	MJD	TAL PLS
Total/NA	Analysis	6010B		4	196432	01/27/16 22:12	SLK	TAL PLS
Total/NA	Prep	7471A			196308	01/26/16 17:30	ASB	TAL PLS
Total/NA	Analysis	7471A		1	196393	01/27/16 17:09	SLK	TAL PLS

**Client Sample ID: GP-3-7.5-8'**

**Lab Sample ID: 720-69933-16**

**Date Collected: 01/21/16 13:46**

**Matrix: Solid**

**Date Received: 01/22/16 17:10**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	196337	01/27/16 09:39	NVP	TAL PLS

**Client Sample ID: GP-3-7.5-8'**

**Lab Sample ID: 720-69933-16**

**Date Collected: 01/21/16 13:46**

**Matrix: Solid**

**Date Received: 01/22/16 17:10**

**Percent Solids: 83.0**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			196202	01/25/16 19:58	JRM	TAL PLS
Total/NA	Analysis	8260B		1	196288	01/27/16 06:11	PRD	TAL PLS

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# Lab Chronicle

Client: Geologica Inc  
Project/Site: Pin High

TestAmerica Job ID: 720-69933-1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			196404	01/27/16 21:05	AFM	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	196415	01/29/16 02:10	JXL	TAL PLS
Total/NA	Prep	3050B			196275	01/26/16 14:13	MJD	TAL PLS
Total/NA	Analysis	6010B		4	196432	01/27/16 22:17	SLK	TAL PLS
Total/NA	Prep	7471A			196308	01/26/16 17:30	ASB	TAL PLS
Total/NA	Analysis	7471A		1	196393	01/27/16 17:11	SLK	TAL PLS

**Client Sample ID: GP-4-3.5-4'**

**Lab Sample ID: 720-69933-19**

**Date Collected: 01/21/16 15:35**

**Matrix: Solid**

**Date Received: 01/22/16 17:10**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	196337	01/27/16 09:39	NVP	TAL PLS

**Client Sample ID: GP-4-3.5-4'**

**Lab Sample ID: 720-69933-19**

**Date Collected: 01/21/16 15:35**

**Matrix: Solid**

**Date Received: 01/22/16 17:10**

**Percent Solids: 69.1**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			196202	01/25/16 19:58	JRM	TAL PLS
Total/NA	Analysis	8260B		1	196326	01/27/16 13:07	YB1	TAL PLS
Silica Gel Cleanup	Prep	3546			196404	01/27/16 21:05	AFM	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	196413	01/29/16 00:37	JXL	TAL PLS
Total/NA	Prep	3050B			196275	01/26/16 14:13	MJD	TAL PLS
Total/NA	Analysis	6010B		4	196432	01/27/16 22:22	SLK	TAL PLS
Total/NA	Prep	3050B			196275	01/26/16 14:13	MJD	TAL PLS
Total/NA	Analysis	6010B		1	196472	01/28/16 16:12	SLK	TAL PLS
Total/NA	Prep	7471A			196308	01/26/16 17:30	ASB	TAL PLS
Total/NA	Analysis	7471A		1	196393	01/27/16 17:14	SLK	TAL PLS

**Client Sample ID: GP-5-4.5-5'**

**Lab Sample ID: 720-69933-23**

**Date Collected: 01/21/16 16:06**

**Matrix: Solid**

**Date Received: 01/22/16 17:10**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	196337	01/27/16 09:39	NVP	TAL PLS

**Client Sample ID: GP-5-4.5-5'**

**Lab Sample ID: 720-69933-23**

**Date Collected: 01/21/16 16:06**

**Matrix: Solid**

**Date Received: 01/22/16 17:10**

**Percent Solids: 78.9**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			196202	01/25/16 19:58	JRM	TAL PLS
Total/NA	Analysis	8260B		1	196326	01/27/16 13:38	YB1	TAL PLS
Silica Gel Cleanup	Prep	3546			196404	01/27/16 21:05	AFM	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	196413	01/29/16 03:32	JXL	TAL PLS
Total/NA	Prep	3050B			196275	01/26/16 14:13	MJD	TAL PLS

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# Lab Chronicle

Client: Geologica Inc  
Project/Site: Pin High

TestAmerica Job ID: 720-69933-1

**Client Sample ID: GP-5-4.5-5'**

**Lab Sample ID: 720-69933-23**

**Date Collected: 01/21/16 16:06**

**Matrix: Solid**

**Date Received: 01/22/16 17:10**

**Percent Solids: 78.9**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	6010B		4	196432	01/27/16 22:27	SLK	TAL PLS
Total/NA	Prep	3050B			196275	01/26/16 14:13	MJD	TAL PLS
Total/NA	Analysis	6010B		4	196472	01/28/16 16:17	SLK	TAL PLS
Total/NA	Prep	7471A			196308	01/26/16 17:30	ASB	TAL PLS
Total/NA	Analysis	7471A		1	196393	01/27/16 17:16	SLK	TAL PLS

**Client Sample ID: GP-5-7.5-8'**

**Lab Sample ID: 720-69933-24**

**Date Collected: 01/21/16 16:05**

**Matrix: Solid**

**Date Received: 01/22/16 17:10**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	196337	01/27/16 09:39	NVP	TAL PLS

**Client Sample ID: GP-5-7.5-8'**

**Lab Sample ID: 720-69933-24**

**Date Collected: 01/21/16 16:05**

**Matrix: Solid**

**Date Received: 01/22/16 17:10**

**Percent Solids: 78.0**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			196295	01/28/16 18:30	JRM	TAL PLS
Total/NA	Analysis	8260B		1	196468	01/29/16 00:36	LPL	TAL PLS
Silica Gel Cleanup	Prep	3546			196404	01/27/16 21:05	AFM	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	196413	01/29/16 04:02	JXL	TAL PLS
Total/NA	Prep	3050B			196275	01/26/16 14:13	MJD	TAL PLS
Total/NA	Analysis	6010B		4	196432	01/27/16 22:31	SLK	TAL PLS
Total/NA	Prep	7471A			196308	01/26/16 17:30	ASB	TAL PLS
Total/NA	Analysis	7471A		1	196393	01/27/16 17:19	SLK	TAL PLS

**Client Sample ID: GP-6-3.5-4'**

**Lab Sample ID: 720-69933-27**

**Date Collected: 01/21/16 16:30**

**Matrix: Solid**

**Date Received: 01/22/16 17:10**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	196337	01/27/16 09:39	NVP	TAL PLS

**Client Sample ID: GP-6-3.5-4'**

**Lab Sample ID: 720-69933-27**

**Date Collected: 01/21/16 16:30**

**Matrix: Solid**

**Date Received: 01/22/16 17:10**

**Percent Solids: 86.8**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			196295	01/28/16 18:30	JRM	TAL PLS
Total/NA	Analysis	8260B		1	196468	01/29/16 01:07	LPL	TAL PLS
Silica Gel Cleanup	Prep	3546			196403	01/27/16 20:37	AFM	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	196413	01/29/16 02:34	JXL	TAL PLS

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# Lab Chronicle

Client: Geologica Inc  
Project/Site: Pin High

TestAmerica Job ID: 720-69933-1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			196366	01/27/16 15:48	KMK	TAL PLS
Total/NA	Analysis	8081A		1	196422	01/28/16 16:12	JZT	TAL PLS
Total/NA	Prep	3546			196367	01/27/16 15:59	KMK	TAL PLS
Total/NA	Analysis	8082		1	196419	01/28/16 17:32	DCH	TAL PLS
Total/NA	Prep	3050B			196275	01/26/16 14:13	MJD	TAL PLS
Total/NA	Analysis	6010B		4	196432	01/27/16 22:36	SLK	TAL PLS
Total/NA	Prep	3050B			196275	01/26/16 14:13	MJD	TAL PLS
Total/NA	Analysis	6010B		1	196472	01/28/16 16:22	SLK	TAL PLS
Total/NA	Prep	7471A			196308	01/26/16 17:30	ASB	TAL PLS
Total/NA	Analysis	7471A		1	196393	01/27/16 17:21	SLK	TAL PLS

**Client Sample ID: GP-6-7.5-8'**

**Lab Sample ID: 720-69933-28**

**Date Collected: 01/21/16 16:32**

**Matrix: Solid**

**Date Received: 01/22/16 17:10**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	196337	01/27/16 09:39	NVP	TAL PLS

**Client Sample ID: GP-6-7.5-8'**

**Lab Sample ID: 720-69933-28**

**Date Collected: 01/21/16 16:32**

**Matrix: Solid**

**Date Received: 01/22/16 17:10**

**Percent Solids: 78.4**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			196561	01/29/16 19:09	CTD	TAL PLS
Total/NA	Analysis	8260B		1	196552	01/29/16 21:35	JRM	TAL PLS
Silica Gel Cleanup	Prep	3546			196403	01/27/16 20:37	AFM	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	196413	01/28/16 23:39	JXL	TAL PLS
Total/NA	Prep	3546			196366	01/27/16 15:48	KMK	TAL PLS
Total/NA	Analysis	8081A		1	196422	01/28/16 16:46	JZT	TAL PLS
Total/NA	Prep	3546			196367	01/27/16 15:59	KMK	TAL PLS
Total/NA	Analysis	8082		1	196419	01/28/16 20:51	DCH	TAL PLS
Total/NA	Prep	3050B			196275	01/26/16 14:13	MJD	TAL PLS
Total/NA	Analysis	6010B		4	196432	01/27/16 22:41	SLK	TAL PLS
Total/NA	Prep	7471A			196308	01/26/16 17:30	ASB	TAL PLS
Total/NA	Analysis	7471A		1	196393	01/27/16 17:28	SLK	TAL PLS

**Client Sample ID: GP-7-3.5-4'**

**Lab Sample ID: 720-69933-31**

**Date Collected: 01/22/16 08:40**

**Matrix: Solid**

**Date Received: 01/22/16 17:10**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	196337	01/27/16 09:39	NVP	TAL PLS

TestAmerica Pleasanton

# Lab Chronicle

Client: Geologica Inc  
Project/Site: Pin High

TestAmerica Job ID: 720-69933-1

**Client Sample ID: GP-7-3.5-4'**

**Date Collected: 01/22/16 08:40**

**Date Received: 01/22/16 17:10**

**Lab Sample ID: 720-69933-31**

**Matrix: Solid**

**Percent Solids: 82.1**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			196295	01/27/16 19:40	JRM	TAL PLS
Total/NA	Analysis	8260B		1	196408	01/28/16 16:56	YB1	TAL PLS
Silica Gel Cleanup	Prep	3546			196403	01/27/16 20:37	AFM	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	196413	01/29/16 01:36	JXL	TAL PLS
Total/NA	Prep	3050B			196275	01/26/16 14:13	MJD	TAL PLS
Total/NA	Analysis	6010B		4	196432	01/27/16 22:46	SLK	TAL PLS
Total/NA	Prep	7471A			196308	01/26/16 17:30	ASB	TAL PLS
Total/NA	Analysis	7471A		1	196393	01/27/16 17:31	SLK	TAL PLS

**Client Sample ID: GP-7-7.5-8'**

**Date Collected: 01/22/16 08:45**

**Date Received: 01/22/16 17:10**

**Lab Sample ID: 720-69933-32**

**Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	196337	01/27/16 09:39	NVP	TAL PLS

**Client Sample ID: GP-7-7.5-8'**

**Date Collected: 01/22/16 08:45**

**Date Received: 01/22/16 17:10**

**Lab Sample ID: 720-69933-32**

**Matrix: Solid**

**Percent Solids: 78.2**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			196202	01/27/16 09:20	JRM	TAL PLS
Total/NA	Analysis	8260B		1	196326	01/27/16 15:09	YB1	TAL PLS
Silica Gel Cleanup	Prep	3546			196404	01/27/16 21:05	AFM	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	196413	01/28/16 22:40	JXL	TAL PLS
Total/NA	Prep	3050B			196275	01/26/16 14:13	MJD	TAL PLS
Total/NA	Analysis	6010B		4	196432	01/27/16 22:51	SLK	TAL PLS
Total/NA	Prep	7471A			196308	01/26/16 17:30	ASB	TAL PLS
Total/NA	Analysis	7471A		1	196393	01/27/16 17:33	SLK	TAL PLS

**Client Sample ID: GP-8-3.5-4'**

**Date Collected: 01/22/16 09:40**

**Date Received: 01/22/16 17:10**

**Lab Sample ID: 720-69933-35**

**Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	196337	01/27/16 09:39	NVP	TAL PLS

**Client Sample ID: GP-8-3.5-4'**

**Date Collected: 01/22/16 09:40**

**Date Received: 01/22/16 17:10**

**Lab Sample ID: 720-69933-35**

**Matrix: Solid**

**Percent Solids: 77.0**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			196295	01/27/16 19:40	JRM	TAL PLS

TestAmerica Pleasanton

# Lab Chronicle

Client: Geologica Inc  
Project/Site: Pin High

TestAmerica Job ID: 720-69933-1

**Client Sample ID: GP-8-3.5-4'**

**Lab Sample ID: 720-69933-35**

**Date Collected: 01/22/16 09:40**

**Matrix: Solid**

**Date Received: 01/22/16 17:10**

**Percent Solids: 77.0**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	196408	01/28/16 14:29	YB1	TAL PLS
Silica Gel Cleanup	Prep	3546			196403	01/27/16 20:37	AFM	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	196413	01/29/16 02:05	JXL	TAL PLS
Total/NA	Prep	3546			196366	01/27/16 15:48	KMK	TAL PLS
Total/NA	Analysis	8081A		1	196422	01/28/16 17:03	JZT	TAL PLS
Total/NA	Prep	3546			196367	01/27/16 15:59	KMK	TAL PLS
Total/NA	Analysis	8082		1	196419	01/28/16 18:05	DCH	TAL PLS
Total/NA	Prep	3050B			196275	01/26/16 14:13	MJD	TAL PLS
Total/NA	Analysis	6010B		4	196432	01/27/16 23:06	SLK	TAL PLS
Total/NA	Prep	7471A			196308	01/26/16 17:30	ASB	TAL PLS
Total/NA	Analysis	7471A		10	196393	01/27/16 17:59	SLK	TAL PLS

**Client Sample ID: GP-8-7.5-8'**

**Lab Sample ID: 720-69933-36**

**Date Collected: 01/22/16 09:42**

**Matrix: Solid**

**Date Received: 01/22/16 17:10**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	196337	01/27/16 09:39	NVP	TAL PLS

**Client Sample ID: GP-8-7.5-8'**

**Lab Sample ID: 720-69933-36**

**Date Collected: 01/22/16 09:42**

**Matrix: Solid**

**Date Received: 01/22/16 17:10**

**Percent Solids: 81.3**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			196561	01/29/16 19:09	CTD	TAL PLS
Total/NA	Analysis	8260B		1	196552	01/29/16 23:07	JRM	TAL PLS
Silica Gel Cleanup	Prep	3546			196403	01/27/16 20:37	AFM	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	196413	01/28/16 22:11	JXL	TAL PLS
Total/NA	Prep	3546			196366	01/27/16 15:48	KMK	TAL PLS
Total/NA	Analysis	8081A		1	196422	01/28/16 17:19	JZT	TAL PLS
Total/NA	Prep	3546			196367	01/27/16 15:59	KMK	TAL PLS
Total/NA	Analysis	8082		1	196419	01/28/16 18:22	DCH	TAL PLS
Total/NA	Prep	3050B			196275	01/26/16 14:13	MJD	TAL PLS
Total/NA	Analysis	6010B		4	196432	01/27/16 23:11	SLK	TAL PLS
Total/NA	Prep	7471A			196308	01/26/16 17:30	ASB	TAL PLS
Total/NA	Analysis	7471A		1	196393	01/27/16 17:38	SLK	TAL PLS

**Client Sample ID: GP-9-4.5-5'**

**Lab Sample ID: 720-69933-39**

**Date Collected: 01/22/16 10:22**

**Matrix: Solid**

**Date Received: 01/22/16 17:10**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	196337	01/27/16 09:39	NVP	TAL PLS

TestAmerica Pleasanton

# Lab Chronicle

Client: Geologica Inc  
Project/Site: Pin High

TestAmerica Job ID: 720-69933-1

**Client Sample ID: GP-9-4.5-5'**

**Lab Sample ID: 720-69933-39**

**Date Collected: 01/22/16 10:22**

**Matrix: Solid**

**Date Received: 01/22/16 17:10**

**Percent Solids: 78.2**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			196561	01/29/16 19:09	CTD	TAL PLS
Total/NA	Analysis	8260B		1	196552	01/29/16 23:37	JRM	TAL PLS
Silica Gel Cleanup	Prep	3546			196404	01/27/16 21:05	AFM	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	196413	01/29/16 01:06	JXL	TAL PLS
Total/NA	Prep	3050B			196275	01/26/16 14:13	MJD	TAL PLS
Total/NA	Analysis	6010B		4	196432	01/27/16 23:16	SLK	TAL PLS
Total/NA	Prep	7471A			196308	01/26/16 17:30	ASB	TAL PLS
Total/NA	Analysis	7471A		10	196393	01/27/16 18:01	SLK	TAL PLS

**Client Sample ID: GP-9-7.5-8'**

**Lab Sample ID: 720-69933-40**

**Date Collected: 01/22/16 10:24**

**Matrix: Solid**

**Date Received: 01/22/16 17:10**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	196337	01/27/16 09:39	NVP	TAL PLS

**Client Sample ID: GP-9-7.5-8'**

**Lab Sample ID: 720-69933-40**

**Date Collected: 01/22/16 10:24**

**Matrix: Solid**

**Date Received: 01/22/16 17:10**

**Percent Solids: 77.4**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			196561	01/29/16 19:09	CTD	TAL PLS
Total/NA	Analysis	8260B		1	196552	01/30/16 00:08	JRM	TAL PLS
Silica Gel Cleanup	Prep	3546			196404	01/27/16 21:05	AFM	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	196413	01/29/16 03:03	JXL	TAL PLS
Total/NA	Prep	3050B			196275	01/26/16 14:13	MJD	TAL PLS
Total/NA	Analysis	6010B		4	196432	01/27/16 23:21	SLK	TAL PLS
Total/NA	Prep	7471A			196308	01/26/16 17:30	ASB	TAL PLS
Total/NA	Analysis	7471A		1	196393	01/27/16 17:42	SLK	TAL PLS

**Client Sample ID: GP-10-3.5-4'**

**Lab Sample ID: 720-69933-43**

**Date Collected: 01/22/16 11:10**

**Matrix: Solid**

**Date Received: 01/22/16 17:10**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	196337	01/27/16 09:39	NVP	TAL PLS

**Client Sample ID: GP-10-3.5-4'**

**Lab Sample ID: 720-69933-43**

**Date Collected: 01/22/16 11:10**

**Matrix: Solid**

**Date Received: 01/22/16 17:10**

**Percent Solids: 87.1**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			196295	01/27/16 19:40	JRM	TAL PLS

TestAmerica Pleasanton

# Lab Chronicle

Client: Geologica Inc  
Project/Site: Pin High

TestAmerica Job ID: 720-69933-1

**Client Sample ID: GP-10-3.5-4'**

**Lab Sample ID: 720-69933-43**

**Date Collected: 01/22/16 11:10**

**Matrix: Solid**

**Date Received: 01/22/16 17:10**

**Percent Solids: 87.1**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	196468	01/29/16 03:40	LPL	TAL PLS
Silica Gel Cleanup	Prep	3546			196404	01/27/16 21:05	AFM	TAL PLS
Silica Gel Cleanup	Analysis	8015B		20	196414	01/29/16 02:35	JXL	TAL PLS
Total/NA	Prep	3546			196366	01/27/16 15:48	KMK	TAL PLS
Total/NA	Analysis	8081A		2	196422	01/28/16 19:00	JZT	TAL PLS
Total/NA	Prep	3546			196367	01/27/16 15:59	KMK	TAL PLS
Total/NA	Analysis	8082		1	196419	01/28/16 18:38	DCH	TAL PLS
Total/NA	Prep	3050B			196275	01/26/16 14:13	MJD	TAL PLS
Total/NA	Analysis	6010B		4	196432	01/27/16 23:26	SLK	TAL PLS
Total/NA	Prep	3050B			196275	01/26/16 14:13	MJD	TAL PLS
Total/NA	Analysis	6010B		1	196472	01/28/16 16:27	SLK	TAL PLS
Total/NA	Prep	7471A			196308	01/26/16 17:30	ASB	TAL PLS
Total/NA	Analysis	7471A		1	196393	01/27/16 17:45	SLK	TAL PLS

**Client Sample ID: GP-10-7.5-8'**

**Lab Sample ID: 720-69933-44**

**Date Collected: 01/22/16 11:12**

**Matrix: Solid**

**Date Received: 01/22/16 17:10**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	196337	01/27/16 09:39	NVP	TAL PLS

**Client Sample ID: GP-10-7.5-8'**

**Lab Sample ID: 720-69933-44**

**Date Collected: 01/22/16 11:12**

**Matrix: Solid**

**Date Received: 01/22/16 17:10**

**Percent Solids: 73.6**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			196561	01/29/16 19:09	CTD	TAL PLS
Total/NA	Analysis	8260B		1	196552	01/30/16 00:38	JRM	TAL PLS
Silica Gel Cleanup	Prep	3546			196404	01/27/16 21:05	AFM	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	196413	01/28/16 23:10	JXL	TAL PLS
Total/NA	Prep	3546			196366	01/27/16 15:48	KMK	TAL PLS
Total/NA	Analysis	8081A		1	196422	01/28/16 17:36	JZT	TAL PLS
Total/NA	Prep	3546			196367	01/27/16 15:59	KMK	TAL PLS
Total/NA	Analysis	8082		1	196419	01/28/16 18:55	DCH	TAL PLS
Total/NA	Prep	3050B			196275	01/26/16 14:13	MJD	TAL PLS
Total/NA	Analysis	6010B		4	196432	01/27/16 23:31	SLK	TAL PLS
Total/NA	Prep	7471A			196312	01/26/16 18:10	ASB	TAL PLS
Total/NA	Analysis	7471A		1	196405	01/27/16 19:55	SLK	TAL PLS

TestAmerica Pleasanton

# Lab Chronicle

Client: Geologica Inc  
Project/Site: Pin High

TestAmerica Job ID: 720-69933-1

**Client Sample ID: GP-11-3.5-4'**

**Lab Sample ID: 720-69933-47**

**Date Collected: 01/22/16 12:00**

**Matrix: Solid**

**Date Received: 01/22/16 17:10**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	196337	01/27/16 09:39	NVP	TAL PLS

**Client Sample ID: GP-11-3.5-4'**

**Lab Sample ID: 720-69933-47**

**Date Collected: 01/22/16 12:00**

**Matrix: Solid**

**Date Received: 01/22/16 17:10**

**Percent Solids: 79.5**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			196561	01/29/16 19:09	CTD	TAL PLS
Total/NA	Analysis	8260B		1	196552	01/30/16 01:08	JRM	TAL PLS
Silica Gel Cleanup	Prep	3546			196404	01/27/16 21:05	AFM	TAL PLS
Silica Gel Cleanup	Analysis	8015B		3	196415	01/29/16 02:35	JXL	TAL PLS
Total/NA	Prep	3050B			196285	01/26/16 14:58	MJD	TAL PLS
Total/NA	Analysis	6010B		4	196482	01/28/16 18:42	SLK	TAL PLS
Total/NA	Prep	7471A			196312	01/26/16 18:10	ASB	TAL PLS
Total/NA	Analysis	7471A		1	196405	01/27/16 19:57	SLK	TAL PLS

**Client Sample ID: GP-11-7.5-8'**

**Lab Sample ID: 720-69933-48**

**Date Collected: 01/22/16 12:02**

**Matrix: Solid**

**Date Received: 01/22/16 17:10**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	196350	01/27/16 12:04	NVP	TAL PLS

**Client Sample ID: GP-11-7.5-8'**

**Lab Sample ID: 720-69933-48**

**Date Collected: 01/22/16 12:02**

**Matrix: Solid**

**Date Received: 01/22/16 17:10**

**Percent Solids: 79.5**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			196561	01/29/16 19:09	CTD	TAL PLS
Total/NA	Analysis	8260B		1	196552	01/30/16 01:39	JRM	TAL PLS
Silica Gel Cleanup	Prep	3546			196404	01/27/16 21:05	AFM	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	196413	01/29/16 00:08	JXL	TAL PLS
Total/NA	Prep	3050B			196285	01/26/16 14:58	MJD	TAL PLS
Total/NA	Analysis	6010B		4	196482	01/28/16 18:46	SLK	TAL PLS
Total/NA	Prep	7471A			196312	01/26/16 18:10	ASB	TAL PLS
Total/NA	Analysis	7471A		1	196405	01/27/16 20:00	SLK	TAL PLS

**Laboratory References:**

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

TestAmerica Pleasanton



# Certification Summary

Client: Geologica Inc  
Project/Site: Pin High

TestAmerica Job ID: 720-69933-1

## Laboratory: TestAmerica Pleasanton

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

Authority	Program	EPA Region	Certification ID	Expiration Date
California	State Program	9	2496	01-31-17

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

Analysis Method	Prep Method	Matrix	Analyte
Moisture		Solid	Percent Moisture

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

# Method Summary

Client: Geologica Inc  
Project/Site: Pin High

TestAmerica Job ID: 720-69933-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL PLS
8260B/CA_LUFTMS	8260B / CA LUFT MS	SW846	TAL PLS
8015B	Diesel Range Organics (DRO) (GC)	SW846	TAL PLS
8081A	Organochlorine Pesticides (GC)	SW846	TAL PLS
8082	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL PLS
6010B	Metals (ICP)	SW846	TAL PLS
7470A	Mercury (CVAA)	SW846	TAL PLS
7471A	Mercury (CVAA)	SW846	TAL PLS
Moisture	Percent Moisture	EPA	TAL PLS

#### Protocol References:

EPA = US Environmental Protection Agency

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

#### Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

# Sample Summary

Client: Geologica Inc  
Project/Site: Pin High

TestAmerica Job ID: 720-69933-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-69933-1	GP-1	Water	01/21/16 15:00	01/22/16 17:10
720-69933-2	GP-2	Water	01/21/16 12:00	01/22/16 17:10
720-69933-3	GP-3	Water	01/21/16 14:10	01/22/16 17:10
720-69933-4	GP-6	Water	01/21/16 16:55	01/22/16 17:10
720-69933-5	GP-7	Water	01/22/16 09:10	01/22/16 17:10
720-69933-6	GP-10	Water	01/22/16 11:50	01/22/16 17:10
720-69933-7	TRIP BLANK	Water	01/22/16 12:30	01/22/16 17:10
720-69933-8	GP-1-3.5-4'	Solid	01/21/16 10:25	01/22/16 17:10
720-69933-9	GP-1-7.5-8'	Solid	01/21/16 10:26	01/22/16 17:10
720-69933-12	GP-2-3.5-4'	Solid	01/21/16 11:40	01/22/16 17:10
720-69933-13	GP-2-7.5-8'	Solid	01/21/16 11:42	01/22/16 17:10
720-69933-15	GP-3-3.5-4'	Solid	01/21/16 13:45	01/22/16 17:10
720-69933-16	GP-3-7.5-8'	Solid	01/21/16 13:46	01/22/16 17:10
720-69933-19	GP-4-3.5-4'	Solid	01/21/16 15:35	01/22/16 17:10
720-69933-23	GP-5-4.5-5'	Solid	01/21/16 16:06	01/22/16 17:10
720-69933-24	GP-5-7.5-8'	Solid	01/21/16 16:05	01/22/16 17:10
720-69933-27	GP-6-3.5-4'	Solid	01/21/16 16:30	01/22/16 17:10
720-69933-28	GP-6-7.5-8'	Solid	01/21/16 16:32	01/22/16 17:10
720-69933-31	GP-7-3.5-4'	Solid	01/22/16 08:40	01/22/16 17:10
720-69933-32	GP-7-7.5-8'	Solid	01/22/16 08:45	01/22/16 17:10
720-69933-35	GP-8-3.5-4'	Solid	01/22/16 09:40	01/22/16 17:10
720-69933-36	GP-8-7.5-8'	Solid	01/22/16 09:42	01/22/16 17:10
720-69933-39	GP-9-4.5-5'	Solid	01/22/16 10:22	01/22/16 17:10
720-69933-40	GP-9-7.5-8'	Solid	01/22/16 10:24	01/22/16 17:10
720-69933-43	GP-10-3.5-4'	Solid	01/22/16 11:10	01/22/16 17:10
720-69933-44	GP-10-7.5-8'	Solid	01/22/16 11:12	01/22/16 17:10
720-69933-47	GP-11-3.5-4'	Solid	01/22/16 12:00	01/22/16 17:10
720-69933-48	GP-11-7.5-8'	Solid	01/22/16 12:02	01/22/16 17:10

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TESTAMERICA Pleasanton Chain of Custody  
 1220 Quarry Lane • Pleasanton CA 94566-4756  
 Phone (925) 484-1919 Fax (925) 923-8992

Reference #:

1166298

Date

1/22/16 Page 1 of 6

**Report To**

**Analysis Request**

Attn: Brian Aubrey

Company: Geologica Inc.

Address: Oakland

Email:

Bill To:

Phone:

Sampled By: GR

Sample ID	Date	Time	Mat	Preserv
GP-1	1/21/16	1500	W	
GP-2	1/21/16	1200	W	
GP-3	1/21/16	1410	W	
GP-6	1/21/16	1655	W	
GP-7	1/21/16	1910	W	
GP-10	1/22/16	1150	W	
Triq Blank	1/22/16	1230	W	

Volatile Organics GC/MS (VOCs) EPA 8260B  
 HVOcs by EPA 8260B  
 EPA 8260B:  Gas  BTEX  
 5 Oxygenates  DCA, ED8  Ethanol  
 TEPH EPA 8015B  Silica Gel  
 Diesel  Motor Oil  Other  
 SemiVolatile Organics GC/MS EPA 8270C  
 PNA/PAH's by  8270C  8270C SIM  
 Oil and Grease (EPA 1664/9071)  Petroleum  Total  
 Pesticides EPA 8081  EPA 8082  
 PCBs  
 CAM17 Metals (EPA 6010/7470/7471)  
 Metals: 6010B  200.7  Lead  LUFT  RCRA  Other:  
 Metals: 6020  200.8 (ICP-MS):  
 W.E.T (STLC)  W.E.T (OI)  TCLP  
 Hex. Chrom by EPA 7196  or EPA 7189  
 pH  9040  SM4500  
 Spec. Cond.  Alkalinity  TSS  SS  TDS  
 Anions: Cl  SO<sub>4</sub>  NO<sub>3</sub>  F  Br  NO<sub>2</sub>  PO<sub>4</sub>  
 Perchlorate by EPA 314.0  
 COD EPA 410.4  SM5220D  Turbidity



**Project Info**

Project Name/ #: Pin High

PO#: Temp: 26°C, 2.8°C

Credit Card Y/N: Temp: 26°C, 2.8°C

If yes, please call with payment information ASAP

TA	10 Day	5 Day	4 Day	3 Day	2 Day	1 Day	Other:
		<input checked="" type="checkbox"/>					

Report:  Routine  Level 3  Level 4  EDD  EDF  
 Special Instructions / Comments:  Global ID

\* Filter metals in Lab  
 See Terms and Conditions on reverse

1) Relinquished by: Greg Romero 1/16

Signature: Greg Romero  
 Printed Name: Greg Romero  
 Date: 1/22/16  
 Company: Geologica

2) Relinquished by: Greg Romero 1/16

Signature: Greg Romero  
 Printed Name: Greg Romero  
 Date: 1/22/16  
 Company: Geologica

3) Relinquished by:

Signature: \_\_\_\_\_  
 Printed Name: \_\_\_\_\_  
 Date: \_\_\_\_\_  
 Company: \_\_\_\_\_

Received by: Greg Romero 1/16

Signature: Greg Romero  
 Printed Name: Greg Romero  
 Date: 1/22/16  
 Company: Geologica

Received by: Greg Romero 1/16

Signature: Greg Romero  
 Printed Name: Greg Romero  
 Date: 1/22/16  
 Company: Geologica

Received by:

Signature: \_\_\_\_\_  
 Printed Name: \_\_\_\_\_  
 Date: \_\_\_\_\_  
 Company: \_\_\_\_\_

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TESTAMERICA Pleasanton Chain of Custody  
 1220 Quarry Lane • Pleasanton, CA 94566-4756  
 Phone: (925) 709-1919 Fax: (925) 709-0202  
**700-699333**

Reference #: 166295  
 Date: 1/24/16 Page 7 of 6

## Report To

Attn: Same As pg 1  
 Company: Same As pg 1  
 Address: \_\_\_\_\_  
 Email: \_\_\_\_\_  
 Bill To: \_\_\_\_\_  
 Sampled By: \_\_\_\_\_  
 Phone: \_\_\_\_\_

## Analysis Request

Volatile Organics GC/MS (VOCs)  
 EPA 8260B  
 HVOCs by  EPA 8260B  
 EPA 8260B:  Gas  BTEX  
 5 Oxygenates  OCA, EDB  Ethand  
 TEPH EPA 8015B  Silica Gel  
 Diesel  Motor Oil  Other: \_\_\_\_\_  
 Sem/Volatile Organics GC/MS  
 EPA 8270C  
 PNA/PAH's by  8270C  
 8270C SIM  
 Oil and Grease  Petroleum  
 (EPA 1664/9071)  Total  
 Pesticides  EPA 8081  
 EPA 8082  
 PCBs  
 CAM17 Metals  
 (EPA 6010/7470/7471)  
 Metals:  6010B  200.7  
 Lead  LUFT  RCRA   
 Other: \_\_\_\_\_  
 Metals:  6020  200.8  
 (ICP-MS): \_\_\_\_\_  
 W.E.T (STLC)  
 W.E.T (DI)  TCLP  
 Hex. Chrom by  EPA 7196  
 or EPA 7199  
 pH  9040  
 SM4500  
 Spec. Cond.  Alkalinity  
 TSS  SS  TDS  
 Anions:  Cl  SO<sub>4</sub>  NO<sub>3</sub>  F  
 Br  NO<sub>2</sub>  PO<sub>4</sub>  
 Perchlorate by EPA 314.0  
 COD  EPA 410.4  SM5220D  
 Turbidity

Sample ID	Date	Time	Mat. Jk	Preserv.	Volatile Organics GC/MS (VOCs)	TEPH EPA 8015B	Sem/Volatile Organics GC/MS	PNA/PAH's by	Oil and Grease	Pesticides	CAM17 Metals	Metals (ICP-MS)	W.E.T (STLC)	Hex. Chrom	pH	Spec. Cond.	Anions	Perchlorate	COD	Turbidity	
GP-1-3.5-4'	1/21/16	1625	S		X	X	X			X	X										
GP-1-7.5-8'	1/21/16	1626			X	X	X			X	X										
GP-1-11.5-12'	1/22/16	1027			X	X	X			X	X										
GP-1-15.5-16'	1/22/16	1028			X	X	X			X	X										
GP-2-3.5-4'	1/24/16	1140			X	X	X			X	X										
GP-2-7.5-8'	1/24/16	1142			X	X	X			X	X										
GP-2-11.5-12'	1/24/16	1145			X	X	X			X	X										
GP-3-3.5-4'	1/24/16	1345			X	X	X			X	X										
GP-3-7.5-8'	1/24/16	1346			X	X	X			X	X										
GP-3-11.5-12'	1/24/16	1347			X	X	X			X	X										

## Project Info

Project Name/ #: \_\_\_\_\_

# of Containers: \_\_\_\_\_

Head Space: \_\_\_\_\_

PO#: \_\_\_\_\_

Temp: \_\_\_\_\_

Credit Card V.I.N: \_\_\_\_\_

If yes, please call with payment information ASAP

T	10	9	4	3	2	1	Other:
A	Day	Day	Day	Day	Day	Day	

Report:  Routine  Level 3  Level 4  EDD  EDF  
 Special Instructions / Comments:  Global ID

\* All Soils by Dry Weight

See Terms and Conditions on reverse

Received by:	Signature	Time	Date	Company
1) Received by:	<u>[Signature]</u>	<u>1416</u>	<u>1/24/16</u>	<u>Geologica</u>
2) Received by:	<u>[Signature]</u>	<u>1710</u>	<u>1/22/16</u>	<u>FX</u>
3) Received by:	<u>[Signature]</u>	<u>1710</u>	<u>1/22/16</u>	<u>FX</u>





# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TESTAMERICA Pleasanton Chain of Custody  
 1220 Quarry Lane • Pleasanton CA 94566-4766  
 Phone: (925) 720-6993 Fax: (925) 682-3392

Reference #: 106298  
 Date: 1/22/16 Page 4 of 6

Report To

Same As Pgt 1

Alt#: \_\_\_\_\_  
 Company: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 Email: \_\_\_\_\_  
 Bill To: \_\_\_\_\_  
 Sampled By: \_\_\_\_\_  
 Phone: \_\_\_\_\_

Sample ID	Date	Time	Mat	Preserv
GP-6-3.5-4'	1/21/16	1630	S	
GP-6-7.5-8'		1632		
GP-6-11.5-12'		1634		
GP-6-15.5-16'		1636		
GP-7-3.5-4'	1/22/16	840		
GP-7-7.5-8'		845		
GP-7-11.5-12'		847		
GP-7-15.5-16'		850		

Project Info	Sample Receipt	Analysis Request	Number of Containers
Project Name: #	# of Containers:	<input checked="" type="checkbox"/> Volatile Organics GC/MS (VOCs) <input checked="" type="checkbox"/> EPA 8260B <input type="checkbox"/> HVOCs by <input type="checkbox"/> EPA 8280B <input type="checkbox"/> EPA 8260B: <input checked="" type="checkbox"/> Gas <input type="checkbox"/> BTEX <input type="checkbox"/> 5 Oxygenates <input type="checkbox"/> DCA; EDB <input type="checkbox"/> Ethanol <input checked="" type="checkbox"/> TEPH EPA 8015B <input checked="" type="checkbox"/> Silica Gel <input checked="" type="checkbox"/> Diesel <input type="checkbox"/> Motor Oil <input type="checkbox"/> Other <input type="checkbox"/> SemiVolatile Organics GC/MS <input type="checkbox"/> EPA 8270C <input type="checkbox"/> PNA/PAH's by <input type="checkbox"/> 8270C <input type="checkbox"/> 8270C SIM <input type="checkbox"/> Oil and Grease <input type="checkbox"/> Petroleum <input type="checkbox"/> (EPA 1654/9071) <input type="checkbox"/> Total <input checked="" type="checkbox"/> Pesticides <input type="checkbox"/> EPA 8081 <input checked="" type="checkbox"/> PCBs <input type="checkbox"/> EPA 8082 <input checked="" type="checkbox"/> CAM17 Metals <input type="checkbox"/> (EPA 6010/7470/7471) <input type="checkbox"/> Metals: <input type="checkbox"/> 6010B <input type="checkbox"/> 200.7 <input type="checkbox"/> Lead <input type="checkbox"/> LUFT <input type="checkbox"/> RCRA <input type="checkbox"/> <input type="checkbox"/> Other: <input type="checkbox"/> Metals: <input type="checkbox"/> 6020 <input type="checkbox"/> 200.8 <input type="checkbox"/> (ICP-MS): <input type="checkbox"/> W.E.T (STLC) <input type="checkbox"/> W.E.T (DI) <input type="checkbox"/> TCLP <input type="checkbox"/> Hex. Chrom by <input type="checkbox"/> EPA 7196 <input type="checkbox"/> or EPA 7199 <input type="checkbox"/> pH <input type="checkbox"/> 9040 <input type="checkbox"/> SM4500 <input type="checkbox"/> Spec. Cond. <input type="checkbox"/> Alkalinity <input type="checkbox"/> TSS <input type="checkbox"/> SS <input type="checkbox"/> TDS <input type="checkbox"/> Anions: <input type="checkbox"/> Cl <input type="checkbox"/> SO <sub>4</sub> <input type="checkbox"/> NO <sub>3</sub> <input type="checkbox"/> F <input type="checkbox"/> Br <input type="checkbox"/> NO <sub>2</sub> <input type="checkbox"/> PO <sub>4</sub> <input type="checkbox"/> Perchlorate by EPA 314.0 <input type="checkbox"/> COD <input type="checkbox"/> EPA 410.4 <input type="checkbox"/> SM5220D <input type="checkbox"/> Turbidity	

1) Relinquished by: [Signature] Time: 1416  
 Signature: [Signature] Date: 1/22/16  
 Printed Name: Edy Romero  
 Company: Geological

2) Relinquished by: [Signature] Time: 1710  
 Signature: [Signature] Date: 1/22/16  
 Printed Name: Edy Romero  
 Company: Geological

3) Relinquished by: \_\_\_\_\_  
 Signature: \_\_\_\_\_ Time: \_\_\_\_\_  
 Printed Name: \_\_\_\_\_  
 Company: \_\_\_\_\_

Received by: [Signature] Time: 1416  
 Signature: [Signature] Date: 1/22/16  
 Printed Name: Edy Romero  
 Company: Geological

Received by: [Signature] Time: 1710  
 Signature: [Signature] Date: 1/22/16  
 Printed Name: Edy Romero  
 Company: Geological

Received by: \_\_\_\_\_  
 Signature: \_\_\_\_\_ Time: \_\_\_\_\_  
 Printed Name: \_\_\_\_\_  
 Company: \_\_\_\_\_

Report:  Routine  Level 3  Level 4  EDD  EDF  
 Special Instructions / Comments: Dry Weight  
 Global ID: \_\_\_\_\_  
 See Terms and Conditions on reverse



# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TESTAMERICA Pleasanton Chain of Custody  
 1220 Quarry Lane • Pleasanton CA 94566-4755  
 Phone: (925) 919-1919 Fax: (925) 919-2002

720-269933

Reference #: 166298  
 Date 1/22/16 Page 5 of 6

## Report To

Attn: Same As PG 1  
 Company: Same As PG 1  
 Address: \_\_\_\_\_  
 Email: \_\_\_\_\_  
 Bill To: \_\_\_\_\_  
 Sampled By: \_\_\_\_\_  
 Phone: \_\_\_\_\_

Analysis Request

Volatile Organics GC/MS (VOCs)  
 EPA 8260B

HVOCs by  EPA 8260B

EPA 8260B:  Gas  BTEX  
 5 Oxygenates  DCA, EDB  Ethanol

TEPH EPA 8015B  Silica Gel  
 Diesel  Motor Oil  Other \_\_\_\_\_

SemiVolatile Organics GC/MS  
 EPA 8270C

PNA/PAH's by  8270C  
 8270C SIM

Oil and Grease  Petroleum  
 (EPA 1664/9071)  Total

Pesticides  EPA 8081  
 EPA 8082

PCBs  EPA 8082

CAM17 Metals  
 (EPA 6010/7470/7471)

Metals:  8010B  200.7  
 Lead  LUFT  RCRA   
 Other: \_\_\_\_\_

Metals:  6020  200.8  
 (ICP-MS): \_\_\_\_\_

W.E.T (STLC)  
 W.E.T (DI)  TCLP

Hex. Chrom by  EPA 7196  
 or EPA 7199

pH  9040  
 SM4500

Spec. Cond.  Alkalinity  
 TSS  SS  TDS

Anions:  Cl  SO<sub>4</sub>  NO<sub>3</sub>  F  
 Br  NO<sub>2</sub>  PO<sub>4</sub>

Perchlorate by EPA 314.0

COD  EPA 410.4  SM5220D  
 Turbidity

Sample ID	Date	Time	Mat	Preserv	1) Relinquished by:	2) Relinquished by:	3) Relinquished by:
GP-8-3.5-4'	1/22/16	940	S		<u>St. Roman</u> 1/16	<u>Ed Miller</u> 1/22/16	<u>Ed Miller</u> 1/22/16
GP-8-7.5-8'		942		X			
GP-8-11.5-12'		944		X			
GP-8-15.5-16'		946		X			
GP-9-4.5-5'		1022		X			
GP-9-7.5-8'		1024		X			
GP-9-11.5-12'		1026		X			
GP-9-15.5-16'		1028		X			

**Project Info**

Project Name: # \_\_\_\_\_

Head Space: \_\_\_\_\_

Temp: \_\_\_\_\_

**Sample Receipt**

# of Containers: \_\_\_\_\_

**1) Relinquished by:**  
 Signature: St. Roman  
 Printed Name: St. Roman  
 Date: 1/22/16  
 Company: Geologica

**2) Relinquished by:**  
 Signature: Ed Miller  
 Printed Name: Ed Miller  
 Date: 1/22/16  
 Company: \_\_\_\_\_

**3) Relinquished by:**  
 Signature: \_\_\_\_\_  
 Printed Name: \_\_\_\_\_  
 Date: \_\_\_\_\_  
 Company: \_\_\_\_\_

**1) Received by:**  
 Signature: Ed Miller  
 Printed Name: Ed Miller  
 Date: 1/16  
 Company: \_\_\_\_\_

**2) Received by:**  
 Signature: Ed Miller  
 Printed Name: Ed Miller  
 Date: 1/22/16  
 Company: \_\_\_\_\_

**3) Received by:**  
 Signature: \_\_\_\_\_  
 Printed Name: \_\_\_\_\_  
 Date: \_\_\_\_\_  
 Company: \_\_\_\_\_

Credit Card Y/N: \_\_\_\_\_  
 If yes, please call with payment information ASAP

Report:  Routine  Level 3  Level 4  EDD  EDF  
 Special Instructions / Comments:  Global ID  
\* Dry Weight

See Terms and Conditions on reverse

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TESTAMERICA Pleasanton Chain of Custody  
 1220 Quarry Lane • Pleasanton CA 94566-4756  
 Phone: (925) 408-3000 Fax: (925) 408-3002

Reference #: 160295  
 Date: 1/22/16 Page 6 of 6

Report To: **Analysis Request**

Alt#: Same As PG 1  
 Company: Same As PG 1  
 Address: \_\_\_\_\_  
 Email: \_\_\_\_\_  
 Bill To: \_\_\_\_\_  
 Sampled By: \_\_\_\_\_  
 Phone: \_\_\_\_\_

Sample ID	Date	Time	Met	Preser	Other
GP-10-35-4'	1/22/16	1100	S		
GP-10-7.5-8'		1112			
GP-10-11.5-12'		1114			
GP-10-15.5-16'		1116			
GP-11-3.5-4'		1200			
GP-11-7.5-8'		1202			
GP-11-11.5-12'		1204			
GP-11-15.5-16'		1206			

**Project Info**  
 Project Name/ #: \_\_\_\_\_  
 # of Containers: \_\_\_\_\_  
 Head Space: \_\_\_\_\_  
 Temp: \_\_\_\_\_

**Credit Card**  
 Y/N: \_\_\_\_\_  
 If yes, please call with payment information ASAP

T 10 Day  5 Day  4 Day  3 Day  2 Day  1 Day  Other \_\_\_\_\_

Report:  Routine  Level 3  Level 4  EDD  EDF  
 Special Instructions / Comments:  Global ID \_\_\_\_\_  
\* Dry Weigh  
 See Terms and Conditions on reverse

**Sample Receipt**

1) Relinquished by: \_\_\_\_\_  
 Signature: \_\_\_\_\_  
 Printed Name: Greg Ramo  
 Date: 1/22/16  
 Company: Georgica

2) Relinquished by: \_\_\_\_\_  
 Signature: \_\_\_\_\_  
 Printed Name: Ed Mahon  
 Date: 1/22/16  
 Company: \_\_\_\_\_

3) Relinquished by: \_\_\_\_\_  
 Signature: \_\_\_\_\_  
 Printed Name: \_\_\_\_\_  
 Date: \_\_\_\_\_  
 Company: \_\_\_\_\_

4) Received by: \_\_\_\_\_  
 Signature: \_\_\_\_\_  
 Printed Name: \_\_\_\_\_  
 Date: \_\_\_\_\_  
 Company: \_\_\_\_\_

# Login Sample Receipt Checklist

Client: Geologica Inc

Job Number: 720-69933-1

**Login Number: 69933**

**List Number: 1**

**Creator: Mullen, Joan**

**List Source: TestAmerica Pleasanton**

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







**Curtis & Tompkins, Ltd.**  
Analytical Laboratories, Since 1878







Laboratory Job Number 274127
ANALYTICAL REPORT

Geologica
220 4th Steet
Oakland, CA 94607

Project : STANDARD
Location : Pin High Site, San Jose
Level : III

Table with 4 columns: Sample ID, Lab ID, Sample ID, Lab ID. Lists 22 sample and lab ID pairs.

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

Signature: \_\_\_\_\_

Date: 02/23/2016

John Goyette
Laboratory Director
goyette@ctberk.com
(510) 204-2233

## CASE NARRATIVE

Laboratory number: 274127  
Client: Geologica  
Location: Pin High Site, San Jose  
Request Date: 02/12/16  
Samples Received: 02/12/16

This data package contains sample and QC results for eleven soil samples, requested for the above referenced project on 02/12/16. See attached cooler receipt form for any sample receipt problems or discrepancies.

### TPH-Extractables by GC (EPA 8015B):

274127-003 and 274127-007 were prepared outside of hold time; affected data was qualified with "b".

No other analytical problems were encountered.

### Pesticides (EPA 8081A):

All samples underwent sulfur cleanup using the copper option in EPA Method 3660B.

All samples underwent florisil cleanup using EPA Method 3620C.

High responses were observed for 4,4'-DDD, endrin, and methoxychlor in the CCV analyzed 02/17/16 01:54; average CCV drift met method requirements, and these analytes were not detected at or above the RL in the associated samples.

High responses were observed for a number of analytes in the CCV analyzed 02/17/16 07:44; average CCV drift met method requirements, and these analytes were not detected at or above the RL in the associated samples.

High responses were observed for 4,4'-DDD, endrin, and methoxychlor in the CCV analyzed 02/17/16 02:16; average CCV drift met method requirements, and these analytes were not detected at or above the RL in the associated samples.

A number of samples were prepared outside of hold time; affected data was qualified with "b".

No other analytical problems were encountered.

### Metals (EPA 6010B):

High recovery was observed for nickel in the MS of GP-2-11.5-12' (lab # 274127-007); the BS/BSD were within limits, and the associated RPD was within limits.

High % differences were observed for nickel and zinc in the serial dilution of GP-2-11.5-12' (lab # 274127-007).

Nickel was detected above the RL in the method blank for batch 232228; this

### CASE NARRATIVE

Laboratory number: 274127  
Client: Geologica  
Location: Pin High Site, San Jose  
Request Date: 02/12/16  
Samples Received: 02/12/16

**Metals (EPA 6010B):**

analyte was detected in the sample at a level at least 10 times that of the blank.

No other analytical problems were encountered.

**Moisture (ASTM D2216/CLP):**

No analytical problems were encountered.



## Chain of Custody

274127

----- Forwarded Message -----

**Subject:**additional analysis of soil samples from Pin High site, San Jose CA

**Date:**Fri, 12 Feb 2016 10:12:54 -0800

**From:**Daniel W. Matthews <[dmatthews@geologicagroup.com](mailto:dmatthews@geologicagroup.com)>

**To:**mjd <[mike.dahlquist@ctberk.com](mailto:mike.dahlquist@ctberk.com)>

**CC:**John Goyette <[goyette@ctberk.com](mailto:goyette@ctberk.com)>, Brian Aubry  
<[baubry@geologicagroup.com](mailto:baubry@geologicagroup.com)>

Mike/John:

We have asked Test America to courier a batch of soil samples from our San Jose site to your Emeryville lab for additional analysis as Test America still doesn't have testing capabilities at this point. I've attached the chain of custody forms from the original lab work to this email so that you can see what you have coming.

We'd like to test samples

GP-2-3.5-4', GP-3-3.5-4', GP-4-3.5-4', GP-5-4.5-5', GP-7-3.5-4', GP-9-4.5-5', and  
GP-11-3.5-4', for chlorinated pesticides (EPA Method 8081A).

GP-1-11.5-12' and GP-2-11.5-12' for TPH-d and TPH-mo by EPA Method 8015M with silica  
gel cleanup

test GP-2-11.5-12' for nickel

test GP-5-11.5-12' for zinc

and test GP-6-11.5-12' for lead using EPA Method 6010

all results on a dry weight basis

Can you give me a quote for analysis with standard 5 day TAT after you review the samples and confirm that you have enough volume to perform these analyses? These should be arriving at your lab today. Also, the samples were collected January 21/22 and we are aware that the extractables will be out of hold. We'd like to proceed anyway, if there is sufficient sample volume.

Thanks

Dan

--

Daniel W. Matthews, P.G.  
Associate Hydrogeologist  
Geologica Inc.  
NEW ADDRESS!  
WE'VE MOVED TO OAKLAND  
220 4th St., Suite 201  
Oakland, CA 94607

274127  
 TESTAMERICA Pleasanton Chain of Custody  
 1220 Quarry Lane • Pleasanton CA 94566-4756  
 Phone (925) 484-1919 Fax (925) 484-9902

Reference #: 166298  
 Date 1/22/16 Page 1 of 6

### Analysis Request

Report To	Sample ID	Date	Time	Mat	Presrv	Analysis Request
Attn: <u>Brian Aubry</u>	<del>GP-1</del>	<del>1/21/16</del>	<del>1500 W</del>	<del>W</del>	<del>W</del>	<input type="checkbox"/> Volatile Organics GCMS (VOCs) EPA 8260B <input type="checkbox"/> HVOCS by EPA 8260B <input checked="" type="checkbox"/> EPA 8250B: <input checked="" type="checkbox"/> Gas <input type="checkbox"/> BTEX <input type="checkbox"/> 5 Oxygenates <input type="checkbox"/> DCA, EDB <input type="checkbox"/> Ethand <input checked="" type="checkbox"/> TEPH EPA 8015B <input checked="" type="checkbox"/> Silica Gel <input checked="" type="checkbox"/> Diesel <input type="checkbox"/> Motor Oil <input type="checkbox"/> Other <input type="checkbox"/> Semivolatile Organics GCMS EPA 8270C <input type="checkbox"/> PNA/PAH's by EPA 8270C <input type="checkbox"/> 8270C SIM <input type="checkbox"/> Oil and Grease (EPA 1664/9071) <input type="checkbox"/> Total <input type="checkbox"/> PCBs <input type="checkbox"/> EPA 8082 <input checked="" type="checkbox"/> CAM17 Metals (EPA 6010/7470/7471) <input type="checkbox"/> Metals: <input type="checkbox"/> 6010 <input type="checkbox"/> 200.7 <input type="checkbox"/> Lead <input type="checkbox"/> LUFT <input type="checkbox"/> RCRA <input type="checkbox"/> Other <input type="checkbox"/> Metals: <input type="checkbox"/> 6020 <input type="checkbox"/> 200.8 (CP-MS) <input type="checkbox"/> W.E.T (STLC) <input type="checkbox"/> W.E.T (PI) <input type="checkbox"/> TCLP <input type="checkbox"/> Hex. Chrom by EPA 7196 <input type="checkbox"/> or EPA 7199 <input type="checkbox"/> pH <input type="checkbox"/> 9040 <input type="checkbox"/> SM4500 <input type="checkbox"/> Spec. Cond. <input type="checkbox"/> Alkalinity <input type="checkbox"/> TSS <input type="checkbox"/> SS <input type="checkbox"/> TDS <input type="checkbox"/> Anions: <input type="checkbox"/> Cl <input type="checkbox"/> SO <sub>4</sub> <input type="checkbox"/> NO <sub>3</sub> <input type="checkbox"/> F <input type="checkbox"/> Br <input type="checkbox"/> NO <sub>2</sub> <input type="checkbox"/> PO <sub>4</sub> <input type="checkbox"/> Perchlorate by EPA 314.0 <input type="checkbox"/> COD <input type="checkbox"/> EPA 410.4 <input type="checkbox"/> SM5220D <input type="checkbox"/> Turbidity
Company: <u>Geologica Inc.</u>	<del>GP-2</del>	<del>1/21/16</del>	<del>1200 W</del>	<del>W</del>	<del>W</del>	
Address: <u>Oakland</u>	<del>GP-3</del>	<del>1/21/16</del>	<del>1416 W</del>	<del>W</del>	<del>W</del>	
Email:	<del>GP-6</del>	<del>1/21/16</del>	<del>1655 W</del>	<del>W</del>	<del>W</del>	
Bill To:	<del>GP-7</del>	<del>1/22/16</del>	<del>910 W</del>	<del>W</del>	<del>W</del>	
Attn:	<del>GP-10</del>	<del>1/22/16</del>	<del>1150 W</del>	<del>W</del>	<del>W</del>	
Sampled By: <u>GR</u>	<del>Temp Blank</del>	<del>1/22/16</del>	<del>1230 W</del>	<del>W</del>	<del>W</del>	
Phone:						



720-69933 Chain of Custody

Project Info.	Sample Receipt
Project Name/ #: <u>Pin Hrgh</u>	# of Containers: _____
Head Space: _____	Temp: <u>26°C, 2.8°C</u>
PO#: _____	Credit Card Y/N: _____
If yes, please call with payment information ASAP	
1) Relinquished by: Signature: <u>Greg Romero</u> Printed Name: <u>Greg Romero</u> Company: <u>Geologica</u> Time: <u>1416</u> Date: <u>1/22/16</u>	2) Received by: Signature: <u>Ed Martinez</u> Printed Name: <u>Ed Martinez</u> Company: <u>TIA</u> Time: <u>1710</u> Date: <u>1/22/16</u>
3) Relinquished by: Signature: <u>Gary Brown</u> Printed Name: <u>Gary Brown</u> Company: <u>TIA</u> Time: <u>12:00</u> Date: <u>2-12-16</u>	3) Received by: Signature: <u>MSP</u> Printed Name: <u>CFT</u> Company: _____ Time: <u>12:01</u> Date: <u>2/12/16</u>

Report:  Routine  Level 3  Level 4  EDD  EDF  
 Special Instructions / Comments: \* filter metals in Lab

### Report To

Attn: Same As pg 1  
 Company:  
 Address:  
 Email:  
 Bill To:  
 Sampled By:  
 Phone:

### Analysis Request

Sample ID	Date	Time	Mat	Preserv	Volatile Organics (VOCs) EPA 8260B	HVOCs by EPA 8260B	EPA 8260B: Gas BTEX Gas DCA, EDB, Ethand	TPH EPA 8015B Silica Gel Diesel Motor Oil Other	Semivolatile Organics (SVOCs) EPA 8270C	PAHs by EPA 8270C SIM	Oil and Grease (EPA 1664/9071) Total Petroleum	Pesticides EPA 8081 EPA 8082	CAM17 Metals (EPA 6010/7470/7471)	Metals: 60108 200.7 Lead LUFT RCRA Other	Metals: 6020 200.8 (CP-MS)	WEI (STL) WEI (DI) TCLP	Hex. Chrom by EPA 7196 or EPA 7199	pH 9040 SM4500	Spec. Cond. Alkalinity TSS SS TDS	Anions: Cl SO4 NO3 F Br NO2 PO4	Perrchlorate by EPA 314.0	COD EPA 410.4 SM5220D Turbidity	Number of Containers		
GP-1-3.5-4'	1/21/16	1625	S		X		X	X				X	X												
GP-1-7.5-8'	1/22/16	1026			X		X	X				X	X												
GP-1-11.5-12'	1/22/16	1027			X		X	X				X	X												
GP-1-15.5-16'	1/22/16	1028			X		X	X				X	X												
GP-2-3.5-4'	1/22/16	1140			X		X	X				X	X												
GP-2-7.5-8'	1/22/16	1142			X		X	X				X	X												
GP-2-11.5-12'	1/22/16	1145			X		X	X				X	X												
GP-3-3.5-4'	1/22/16	1345			X		X	X				X	X												
GP-3-7.5-8'	1/22/16	1346			X		X	X				X	X												
GP-3-11.5-12'	1/22/16	1347			X		X	X				X	X												

Project Name: #  
 Head Space:  
 Temp:  
 PO#:  
 Credit Card Y/N:  
 If yes, please call with payment information ASAP

1) Relinquished by:  
 Signature: [Signature]  
 Printed Name: Greg Romaro  
 Company: Geologica  
 Time: 1416  
 Date: 1/22/16

2) Relinquished by:  
 Signature: [Signature]  
 Printed Name: [Signature]  
 Company: [Signature]  
 Time: 1710  
 Date: 1/22/16

3) Relinquished by:  
 Signature: [Signature]  
 Printed Name: Gary P. Cans  
 Company: TA  
 Time: 12:00  
 Date: 2-12-16

1) Received by:  
 Signature: [Signature]  
 Printed Name: [Signature]  
 Company: [Signature]  
 Time: 1416  
 Date: 1/22/16

2) Received by:  
 Signature: [Signature]  
 Printed Name: [Signature]  
 Company: [Signature]  
 Time: 1710  
 Date: 1/22/16

3) Received by:  
 Signature: [Signature]  
 Printed Name: [Signature]  
 Company: [Signature]  
 Time: 1200  
 Date: 2/12/16

Report:  Routine  Level 3  Level 4  EDD  EDF  
 Special Instructions / Comments:  
**\* All Soils by Dry Weight**

274127

TESTAMERICA Pleasanton Chain of Custody  
 1220 Quarry Lane • Pleasanton CA 94566-4756  
 Phone: (925) 844-9119 Fax: (925) 844-9000  
**720-699333**

Reference #: 166228  
 Date: 1/22/16 Page 3 of 6

### Report To

Attn: Sue As pg 1

Company: Sue As pg 1

Address: Sue As pg 1

Email: Sue As pg 1

Bill To: Sue As pg 1

Phone: Sue As pg 1

Sampled By: Sue As pg 1

Attn: Sue As pg 1

Sample ID	Date	Time	Mat	Preserv
GP-3-15.5-16'	1/21/16	1348	S	
GP-4-3.5-4'		1535		
GP-4-7.5-8'		1536		
GP-4-11.5-12'		1537		
GP-4-15.5-16'		1538		
GP-5-4.5-5'		1606		
GP-5-7.5-8'		1605		
GP-5-15.5-16'		1608		
GP-5-7.5-8'		1607		
GP-5-11.5-12'		1607		

### Sample Receipt

Project Name: Geo

# of Containers: 1416

Head Space: Geo

Temp: Geo

PO#: Geo

Credit Card Y/N: Geo

If yes, please call with payment information ASAP.

T	10	5	4	3	2	1	Other:
A	Day	Day	Day	Day	Day	Day	
T							

Report:  Routine  Level 3  Level 4  EDD  EDF  
 Special Instructions / Comments:  Global ID  
**\* Dry weight**

### Analysis Request

Sample ID	Volatiles Organics GC/MS (VOCs) EPA 8260B	HVOCs by EPA 8260B	EPA 8250B: Gas BTX, Oxygens, DCA, EDB, Ethanol	TEPH EPA 8015B: Silica Gel, Diesel, Motor Oil, Other	Semivolatile Organics GC/MS EPA 8270C	PNAPAH's by EPA 8270C SIM	Oil and Grease (EPA 1664/9071) Total, Petroleum	Pesticides EPA 8081, EPA 8082	CAM17 Metals (EPA 6010/7470/471)	Metals: 60108, 200.7, Lead, LUT, RCR, Other	Metals: 6020, 200.8 (CP-MS)	WET (STLC), WET (DI), TLP	Hex. Chrom by EPA 7199 or EPA 7199	pH 9040, SM4500	Spec. Cond., Alkalinity, TSS, SS, TDS	Anions: Cl, SO4, NO3, F, Br, NO2, PO4	Perchlorate by EPA 314.0	COD EPA 410.4, SM5220D	Turbidity	Number of Containers
GP-3-15.5-16'	X		X	X					X											Hold
GP-4-3.5-4'			X	X					X											X
GP-4-7.5-8'			X	X					X											X
GP-4-11.5-12'			X	X					X											X
GP-4-15.5-16'			X	X					X											X
GP-5-4.5-5'			X	X					X											X
GP-5-7.5-8'			X	X					X											X
GP-5-15.5-16'			X	X					X											X
GP-5-7.5-8'			X	X					X											X
GP-5-11.5-12'			X	X					X											X

1) Relinquished by: Geo Signature Geo Printed Name Geo Company Geo Time 1416 Date 1/22/16

2) Relinquished by: Geo Signature Geo Printed Name Geo Company Geo Time 1710 Date 1/22/16

3) Relinquished by: Geo Signature Geo Printed Name Geo Company Geo Time 12:00 Date 2-11-16

Received by: Geo Signature Geo Printed Name Geo Company Geo Time 12:00 Date 2/12/16

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TESTAMERICA Pleasanton Chain of Custody  
 1220 Quarry Lane • Pleasanton CA 94566-4756  
 Phone: (925) 719-1919 Fax: (925) 663-892

Reference #: 274127  
 Date: 1/22/16 Page 4 of 6

166298

## Report To

Attn: Same As RFI  
 Company: Same As RFI  
 Address: Same As RFI  
 Email: Same As RFI  
 Bill To: Same As RFI  
 Sampled By: Same As RFI  
 Phone: Same As RFI

## Analysis Request

Sample ID	Date	Time	Mat. #	Preserv. #
20 GP-6-3.5-4'	1/21/16	1630	5	
21 GP-6-7.5-8'	↓	1632		
22 GP-6-11.5-12'	↓	1634		
23 GP-6-15.5-16'	↓	1636		
24 GP-7-3.5-4'	1/22/16	840		
25 GP-7-7.5-8'	↓	845		
26 GP-7-11.5-12'	↓	847		
27 GP-7-15.5-16'	↓	850		

Analysis	20	21	22	23	24	25	26	27
Volatile Organics GC/MS (VOCs) EPA 8260B	X	X	X	X	X	X	X	X
HVOCs by EPA 8260B								
EPA 8260B: Gas BTEX	X	X	X	X	X	X	X	X
5 Oxygenates DCA, EDB, Ethad	X	X	X	X	X	X	X	X
TEPH EPA 8015B Silica Gel	X	X	X	X	X	X	X	X
Diesel Motor Oil / Other	X	X	X	X	X	X	X	X
Semivolatile Organics GC/MS EPA 8270C								
PNA/PAH's by EPA 8270C SIM								
Oil and Grease (EPA 1664/9071) Total								
Pesticides EPA 8081	X	X	X	X	X	X	X	X
PCBs EPA 8082	X	X	X	X	X	X	X	X
CAM17 Metals (EPA 6010/7470/471)	X	X	X	X	X	X	X	X
Metals: 60109 2007								
Lead LUFT RCRA								
Other								
Metals: 6020 2008 (CP-MS)								
W.E.T (STL) W.E.T (D) TCLP								
Hex. Chrom by EPA 7199 or EPA 7199								
pH 9040 SM4500								
Spec. Cond. Alkalinity								
TSS SS TDS								
Anions: Cl SO4 NO3 F Br NO2 PO4								
Perchlorate by EPA 314.0								
COD EPA 410.4 SM5220D								
Turbidity								

### Project Info. Sample Receipt

Project Name/ #: \_\_\_\_\_ # of Containers: \_\_\_\_\_

Head Space: \_\_\_\_\_ Temp: \_\_\_\_\_

PO#: \_\_\_\_\_

Credit Card Y/N: \_\_\_\_\_

If yes, please call with payment information ASAP

T	10	5	4	3	2	1	Other:
A	Day	Day	Day	Day	Day	Day	
T							

Report:  Routine  Level 3  Level 4  EDD  EDF  
 Special Instructions / Comments:  Global ID

**\* Dry Weight**

See Terms and Conditions on reverse

### Relinquished by:

1) Relinquished by: Greg Romsd Signature 1/22/16 Time 1416 Date  
 Printed Name Greg Romsd Date 1/22/16  
 Company Geodisica

2) Relinquished by: Ed Martine Signature 1/22/16 Time 1710 Date  
 Printed Name Ed Martine Date 1/22/16  
 Company JTA

3) Relinquished by: Gay Evans Signature 1/22/16 Time 1200 Date  
 Printed Name Gay Evans Date 2-12-16  
 Company JTA

TESTAMERICA Pleasanton Chain of Custody  
 1220 Quarry Lane • Pleasanton CA 94566-4756  
 Phone: (925) 949-7200 • FAX: (925) 949-3002

Reference #: 166298  
 Date 1/22/16 Page 5 of 6

**Analysis Request**

Sample ID	Date	Time	Met. #	Preserv. #
26 GP-8-3.5-4'	1/24/16	740	S	
29 GP-8-7.5-8'	1/24/16	742		
30 GP-8-11.5-12'	1/24/16	744		
31 GP-8-15.5-16'	1/24/16	746		
32 GP-9-4.5-5'	1/22/16	1022		
33 GP-9-7.5-8'	1/22/16	1024		
34 GP-9-11.5-12'	1/22/16	1026		
35 GP-9-15.5-16'	1/22/16	1028		

Altn:	
Company:	<u>Same As Pq 1</u>
Address:	
Email:	
Bill To:	
Sampled By:	
Phone:	
Altn:	

Volatile Organics GC/MS (VOCs) EPA 8260B	X	X
HVOCs by EPA 8260B		
EPA 8259B: <input checked="" type="checkbox"/> Gas <input type="checkbox"/> BTEX <input type="checkbox"/> DCA, EDB <input type="checkbox"/> Ethanol	X	X
TEPH EPA 8015B <input checked="" type="checkbox"/> Silica Gel <input type="checkbox"/> Other	X	X
Semivolatile Organics GC/MS EPA 8270C		
PNAP/PAH's by EPA 8270C EPA 8270C SIM		
Oil and Grease (EPA 1664/9071) <input type="checkbox"/> Total <input type="checkbox"/> Petroleum		
Pesticides EPA 8081 EPA 8082	X	X
CAM17 Metals (EPA 60107/4707/471)	X	X
Metals: <input type="checkbox"/> 60108 <input type="checkbox"/> 200.7 <input type="checkbox"/> Lead <input type="checkbox"/> LUFT <input type="checkbox"/> RCRA <input type="checkbox"/> Other		
Metals: <input type="checkbox"/> 6020 <input type="checkbox"/> 200.8 (ICP-MS)		
W.E.T (STL) <input type="checkbox"/> W.E.T (DI) <input type="checkbox"/> TCLP		
Hex. Chrom by EPA 7199 <input type="checkbox"/> or EPA 7199		
pH <input type="checkbox"/> 9040 <input type="checkbox"/> SM4500		
Spec. Cond. <input type="checkbox"/> Alkalinity <input type="checkbox"/> TSS <input type="checkbox"/> SS <input type="checkbox"/> TDS		
Anions: <input type="checkbox"/> Cl <input type="checkbox"/> SO <sub>4</sub> <input type="checkbox"/> NO <sub>3</sub> <input type="checkbox"/> F <input type="checkbox"/> Br <input type="checkbox"/> NO <sub>2</sub> <input type="checkbox"/> PO <sub>4</sub>		
Perchlorate by EPA 314.0 <input type="checkbox"/> COD <input type="checkbox"/> EPA 410.4 <input type="checkbox"/> SM5220D <input type="checkbox"/> Turbidity		
Number of Containers		

<b>Project Info</b>	<b>Sample Receipt</b>
Project Name: #	# of Containers:
PO#: _____	Head Space: _____
Temp: _____	Temp: _____
Credit Card Y/N: _____	
If yes, please call with payment information ASAP	
T 10 Day	1 Day
A 5 Day	2 Day
T 3 Day	3 Day
	4 Day
	5 Day
	Other: _____
Report: <input type="checkbox"/> Routine <input type="checkbox"/> Level 3 <input type="checkbox"/> Level 4 <input type="checkbox"/> EDD <input type="checkbox"/> EDF	
Special Instructions / Comments: <input type="checkbox"/> Global ID	
<b>* Dry Weight</b>	
See Terms and Conditions on rev. 10/201	

1) Relinquished by:	Signature: <u>Corey Romero</u>	Time: <u>1416</u>
	Printed Name: <u>Corey Romero</u>	Date: <u>1/22/16</u>
Company: <u>Geologica</u>		
2) Relinquished by:	Signature: <u>Edy Mark</u>	Time: <u>1710</u>
	Printed Name: <u>Edy Mark</u>	Date: <u>1/22/16</u>
Company: <u>FA</u>		
3) Relinquished by:	Signature: <u>Greg Evans</u>	Time: <u>12:00</u>
	Printed Name: <u>Greg Evans</u>	Date: <u>2/12/16</u>
Company: <u>FA</u>		

1) Received by:	Signature: <u>[Signature]</u>	Time: <u>1416</u>
	Printed Name: <u>[Name]</u>	Date: <u>1/22/16</u>
Company: _____		
2) Received by:	Signature: <u>[Signature]</u>	Time: <u>1710</u>
	Printed Name: <u>[Name]</u>	Date: <u>1/22/16</u>
Company: _____		
3) Received by:	Signature: <u>[Signature]</u>	Time: <u>12:00</u>
	Printed Name: <u>[Name]</u>	Date: <u>2/12/16</u>
Company: _____		



### Analysis Request

Sample ID	Date	Time	Met	Preser	Met	Preser
36 GP-10-35-4'	11/24/16	1110	S			
37 GP-10-7.5-8'		1112				
38 GP-10-11.5-12'		1114				
39 GP-10-15.5-16'		1116				
40 GP-11-3.5-4'		1200				
41 GP-11-7.5-8'		1202				
42 GP-11-11.5-12'		1204				
43 GP-11-15.5-16'		1206				

<input type="checkbox"/> Volatile Organics GC/MS (VOCs) <input checked="" type="checkbox"/> EPA 8260B	<input type="checkbox"/> HVOCS by EPA 8260B	<input type="checkbox"/> EPA 8260B <input type="checkbox"/> Gas <input type="checkbox"/> BTX <input type="checkbox"/> Oxygenates <input type="checkbox"/> DCA, EDB, Ethand	<input checked="" type="checkbox"/> TEPH EPA 8015B <input checked="" type="checkbox"/> Silica Gel <input type="checkbox"/> Diesel <input type="checkbox"/> Motor Oil <input type="checkbox"/> Other	<input type="checkbox"/> Semivolatile Organics GC/MS <input type="checkbox"/> EPA 8270C	<input type="checkbox"/> PNA/PAH's by EPA 8270C <input type="checkbox"/> 8270C SIM	<input type="checkbox"/> Oil and Grease <input type="checkbox"/> Petroleum <input type="checkbox"/> Total <input type="checkbox"/> EPA 1664/9071	<input checked="" type="checkbox"/> Pesticides <input checked="" type="checkbox"/> EPA 8081 <input checked="" type="checkbox"/> EPA 8082	<input type="checkbox"/> CAM17 Metals <input type="checkbox"/> (EPA 60107/4707471)	<input type="checkbox"/> Metals: 60108 <input type="checkbox"/> 200.7 <input type="checkbox"/> Lead <input type="checkbox"/> LUFT <input type="checkbox"/> RCRA <input type="checkbox"/> Other	<input type="checkbox"/> Metals: 6020 <input type="checkbox"/> 200.8 <input type="checkbox"/> (CP-MS)	<input type="checkbox"/> W.E.T (STL) <input type="checkbox"/> W.E.T (DI) <input type="checkbox"/> TCLP	<input type="checkbox"/> Hex. Chrom by EPA 7196 <input type="checkbox"/> or EPA 7199	<input type="checkbox"/> pH <input type="checkbox"/> 9040 <input type="checkbox"/> SM4500	<input type="checkbox"/> Spec. Cond. <input type="checkbox"/> Alkalinity <input type="checkbox"/> TSS <input type="checkbox"/> SS <input type="checkbox"/> TDS	<input type="checkbox"/> Anions: Cl <input type="checkbox"/> SO4 <input type="checkbox"/> NO3 <input type="checkbox"/> F <input type="checkbox"/> Br <input type="checkbox"/> NO2 <input type="checkbox"/> PO4	<input type="checkbox"/> Perchlorate by EPA 314.0	<input type="checkbox"/> COD <input type="checkbox"/> EPA 410.4 <input type="checkbox"/> SM5220D <input type="checkbox"/> Turbidity	HOLD	XX XX XX
--	---	--	---	--	---	---	--	---	---	---	--	---	---	--	--	---	--	------	----------------

Number of Containers

Project Info	Sample Receipt
Project Name/ #: _____ # of Containers: _____ Head Space: _____ Temp: _____ PO#: _____	1) Relinquished by: <u>Steve Rando</u> Signature <u>Steve Rando</u> Printed Name <u>Geologica</u> Company Time: <u>1416</u> Date: <u>11/22/16</u>
Credit Card Y/N: _____ If yes, please call with payment information ASAP	2) Relinquished by: <u>Ed Karkinen</u> Signature <u>Ed Karkinen</u> Printed Name <u>IA</u> Company Time: <u>1710</u> Date: <u>11/22/16</u>
Report: <input type="checkbox"/> Routine <input type="checkbox"/> Level 3 <input type="checkbox"/> Level 4 <input type="checkbox"/> EDD <input type="checkbox"/> EDF Special Instructions / Comments: _____ * Dry Weight	3) Received by: <u>Gary Evans</u> Signature <u>Gary Evans</u> Printed Name <u>JA</u> Company Time: <u>12:00</u> Date: <u>11/22/16</u>

**COOLER RECEIPT CHECKLIST**



Login # 274127 Date Received 02/12/16 Number of coolers 1  
 Client Geologica Project Pin High Site, San Jose

Date Opened 02/12 By (print) SC (sign) [Signature]  
 Date Logged in ↓ By (print) ↓ (sign) ↓

1. Did cooler come with a shipping slip (airbill, etc) \_\_\_\_\_ YES  NO   
 Shipping info \_\_\_\_\_

2A. Were custody seals present? ....  YES (circle) on cooler on samples  NO  
 How many \_\_\_\_\_ Name \_\_\_\_\_ Date \_\_\_\_\_

2B. Were custody seals intact upon arrival? \_\_\_\_\_ YES NO N/A

3. Were custody papers dry and intact when received? \_\_\_\_\_ YES NO

4. Were custody papers filled out properly (ink, signed, etc)? \_\_\_\_\_ YES NO

5. Is the project identifiable from custody papers? (If so fill out top of form) \_\_\_\_\_ YES NO

6. Indicate the packing in cooler: (if other, describe) \_\_\_\_\_

- Bubble Wrap  Foam blocks  Bags  None
- Cloth material  Cardboard  Styrofoam  Paper towels

7. Temperature documentation: \* Notify PM if temperature exceeds 6°C

Type of ice used:  Wet  Blue/Gel  None Temp(°C) 1.5°

Temperature blank(s) included?  Thermometer# \_\_\_\_\_  IR Gun# B

Samples received on ice directly from the field. Cooling process had begun

8. Were Method 5035 sampling containers present? \_\_\_\_\_ YES  NO   
 If YES, what time were they transferred to freezer? \_\_\_\_\_

9. Did all bottles arrive unbroken/unopened? \_\_\_\_\_ ~~YES~~ NO

10. Are there any missing / extra samples? \_\_\_\_\_ YES  NO

11. Are samples in the appropriate containers for indicated tests? \_\_\_\_\_ ~~YES~~ NO

12. Are sample labels present, in good condition and complete? \_\_\_\_\_ ~~YES~~ NO

13. Do the sample labels agree with custody papers? \_\_\_\_\_ ~~YES~~ NO

14. Was sufficient amount of sample sent for tests requested? \_\_\_\_\_ ~~YES~~ NO

15. Are the samples appropriately preserved? \_\_\_\_\_ YES NO  N/A

16. Did you check preservatives for all bottles for each sample? \_\_\_\_\_ YES NO  N/A

17. Did you document your preservative check? (pH strip lot# \_\_\_\_\_ ) YES NO  N/A

18. Did you change the hold time in LIMS for unpreserved VOAs? \_\_\_\_\_ YES NO  N/A

19. Did you change the hold time in LIMS for preserved terracores? \_\_\_\_\_ YES NO  N/A

20. Are bubbles > 6mm absent in VOA samples? \_\_\_\_\_ YES NO  N/A

21. Was the client contacted concerning this sample delivery? \_\_\_\_\_ YES  NO   
 If YES, Who was called? \_\_\_\_\_ By \_\_\_\_\_ Date: \_\_\_\_\_

**COMMENTS**

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Detections Summary for 274127

Results for any subcontracted analyses are not included in this summary.

Client : Geologica  
 Project : STANDARD  
 Location : Pin High Site, San Jose

Client Sample ID : GP-1-11.5-12'      Laboratory Sample ID : 274127-003

Analyte	Result	Flags	RL	Units	Basis	IDF	Method	Prep Method
Motor Oil C24-C36	8.7	b	6.3	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550B

Client Sample ID : GP-2-3.5-4'      Laboratory Sample ID : 274127-005

No Detections

Client Sample ID : GP-2-11.5-12'      Laboratory Sample ID : 274127-007

Analyte	Result	Flags	RL	Units	Basis	IDF	Method	Prep Method
Diesel C10-C24	1.4	Y,b	1.3	mg/Kg	Dry	1.000	EPA 8015B	EPA 3550B
Nickel	130		0.32	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B

Client Sample ID : GP-3-3.5-4'      Laboratory Sample ID : 274127-008

No Detections

Client Sample ID : GP-4-3.5-4'      Laboratory Sample ID : 274127-012

No Detections

Client Sample ID : GP-5-4.5-5'      Laboratory Sample ID : 274127-016

Analyte	Result	Flags	RL	Units	Basis	IDF	Method	Prep Method
alpha-Chlordane	13	C,b	10	ug/Kg	Dry	5.000	EPA 8081A	EPA 3550B

Client Sample ID : GP-5-11.5-12'      Laboratory Sample ID : 274127-019

Analyte	Result	Flags	RL	Units	Basis	IDF	Method	Prep Method
Zinc	120		2.0	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B

Client Sample ID : GP-6-11.5-12'      Laboratory Sample ID : 274127-022

Analyte	Result	Flags	RL	Units	Basis	IDF	Method	Prep Method
Lead	13		0.33	mg/Kg	Dry	1.000	EPA 6010B	EPA 3050B

Client Sample ID : GP-7-3.5-4'                      Laboratory Sample ID :                      274127-024

No Detections

Client Sample ID : GP-9-4.5-5'                      Laboratory Sample ID :                      274127-032

No Detections

Client Sample ID : GP-11-3.5-4'                      Laboratory Sample ID :                      274127-040

No Detections

C = Presence confirmed, but RPD between columns exceeds 40%  
Y = Sample exhibits chromatographic pattern which does not resemble standard  
b = See narrative

Laboratory Job Number 274127

ANALYTICAL REPORT

TPH-Extractables by GC

Matrix: Soil



Batch QC Report

Total Extractable Hydrocarbons			
Lab #:	274127	Location:	Pin High Site, San Jose
Client:	Geologica	Prep:	EPA 3550B
Project#:	STANDARD	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC823978	Batch#:	232232
Matrix:	Soil	Prepared:	02/18/16
Units:	mg/Kg	Analyzed:	02/19/16

Cleanup Method: EPA 3630C

Analyte	Spiked	Result	%REC	Limits
Diesel C10-C24	49.86	51.63	104	58-137

Surrogate	%REC	Limits
o-Terphenyl	115	59-140



**Batch QC Report**

<b>Total Extractable Hydrocarbons</b>			
Lab #:	274127	Location:	Pin High Site, San Jose
Client:	Geologica	Prep:	EPA 3550B
Project#:	STANDARD	Analysis:	EPA 8015B
Field ID:	ZZZZZZZZZZ	Batch#:	232232
MSS Lab ID:	274210-001	Sampled:	02/12/16
Matrix:	Soil	Received:	02/16/16
Units:	mg/Kg	Prepared:	02/18/16
Basis:	as received	Analyzed:	02/19/16
Diln Fac:	1.000		

Type: MS Lab ID: QC823979

Analyte	MSS Result	Spiked	Result	%REC	Limits
Diesel C10-C24	7.110	50.23	56.35	98	46-154

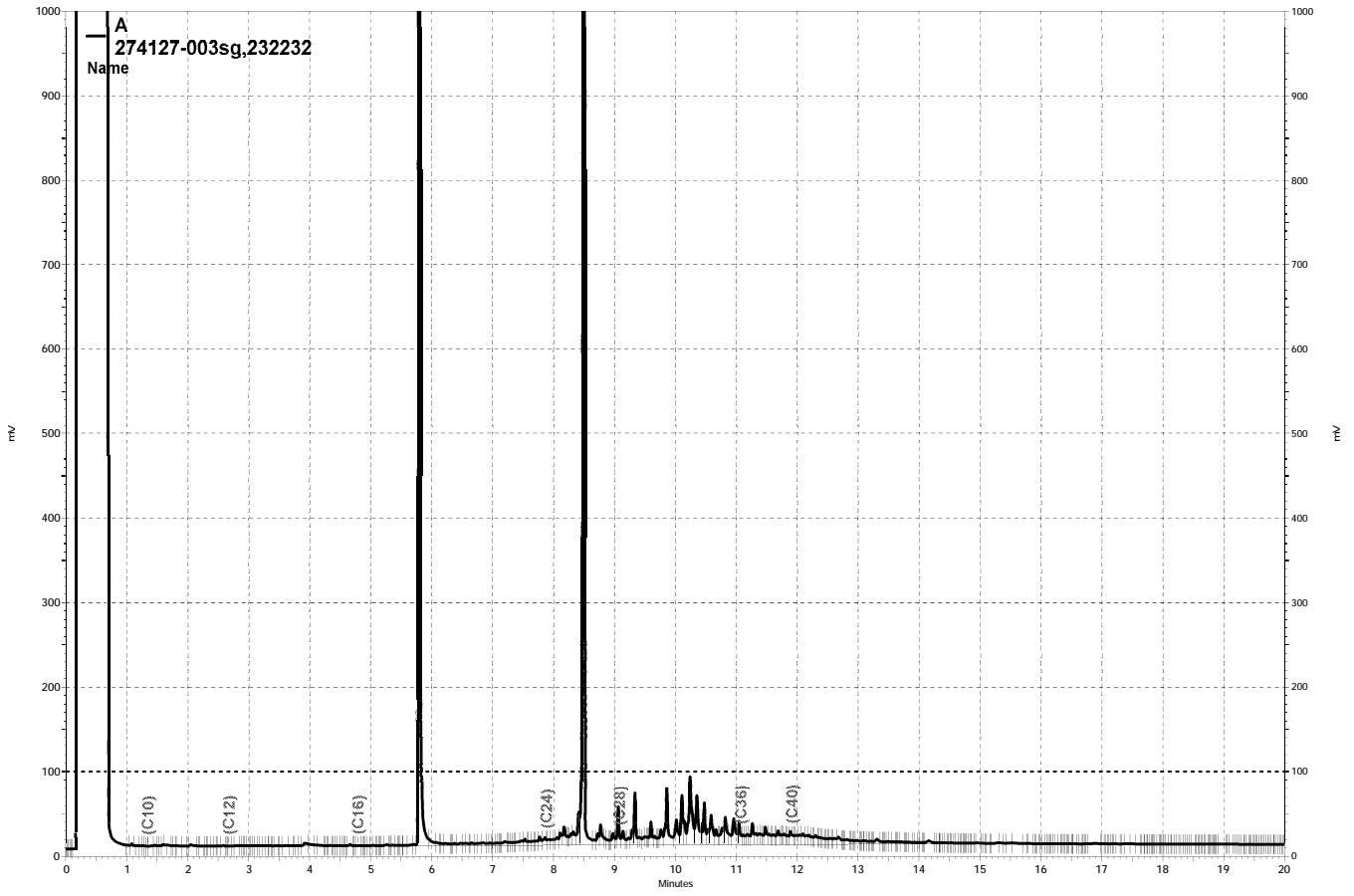
Surrogate	%REC	Limits
o-Terphenyl	117	59-140

Type: MSD Lab ID: QC823980

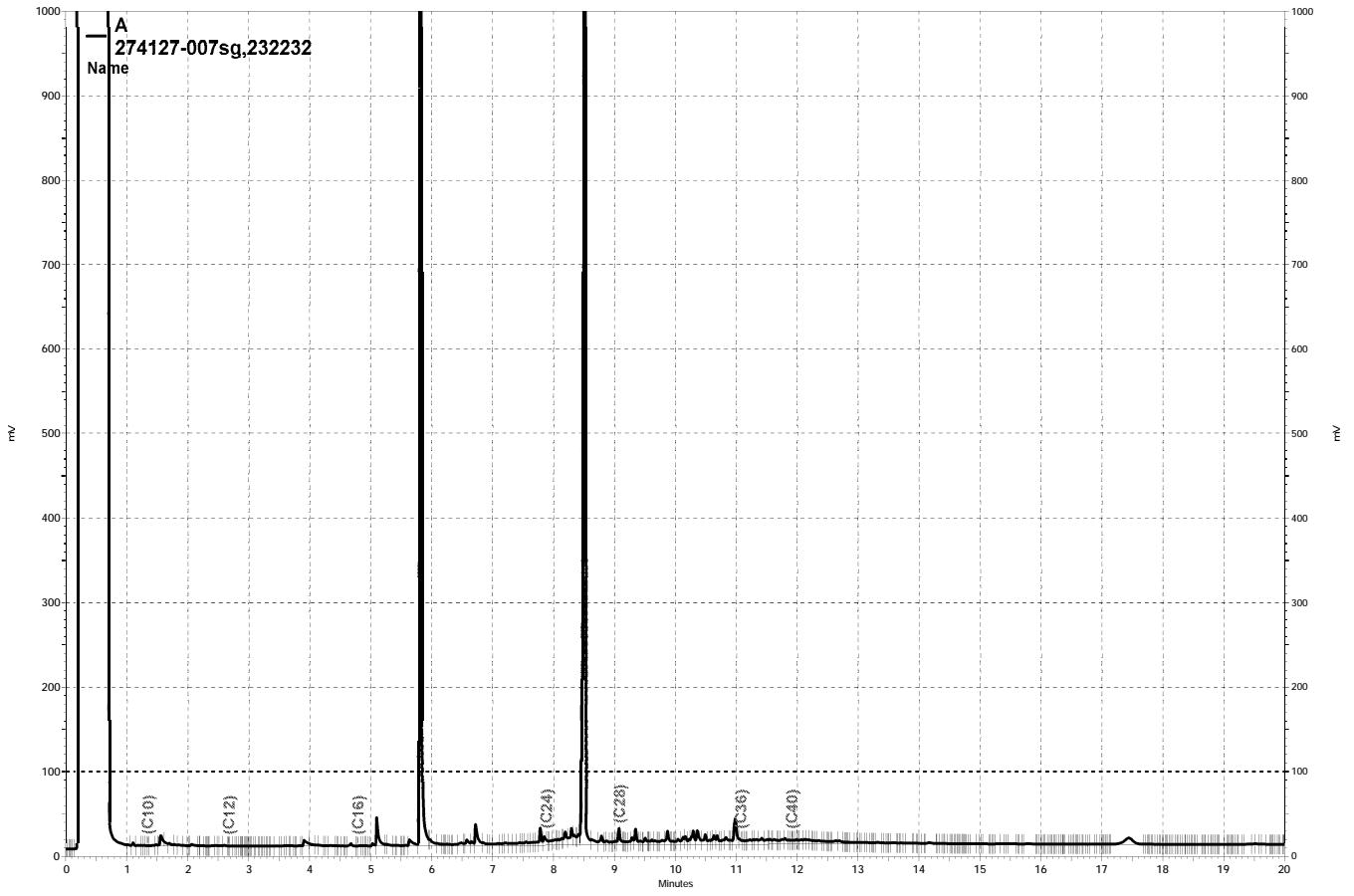
Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Diesel C10-C24	49.78	53.32	93	46-154	5	50

Surrogate	%REC	Limits
o-Terphenyl	114	59-140

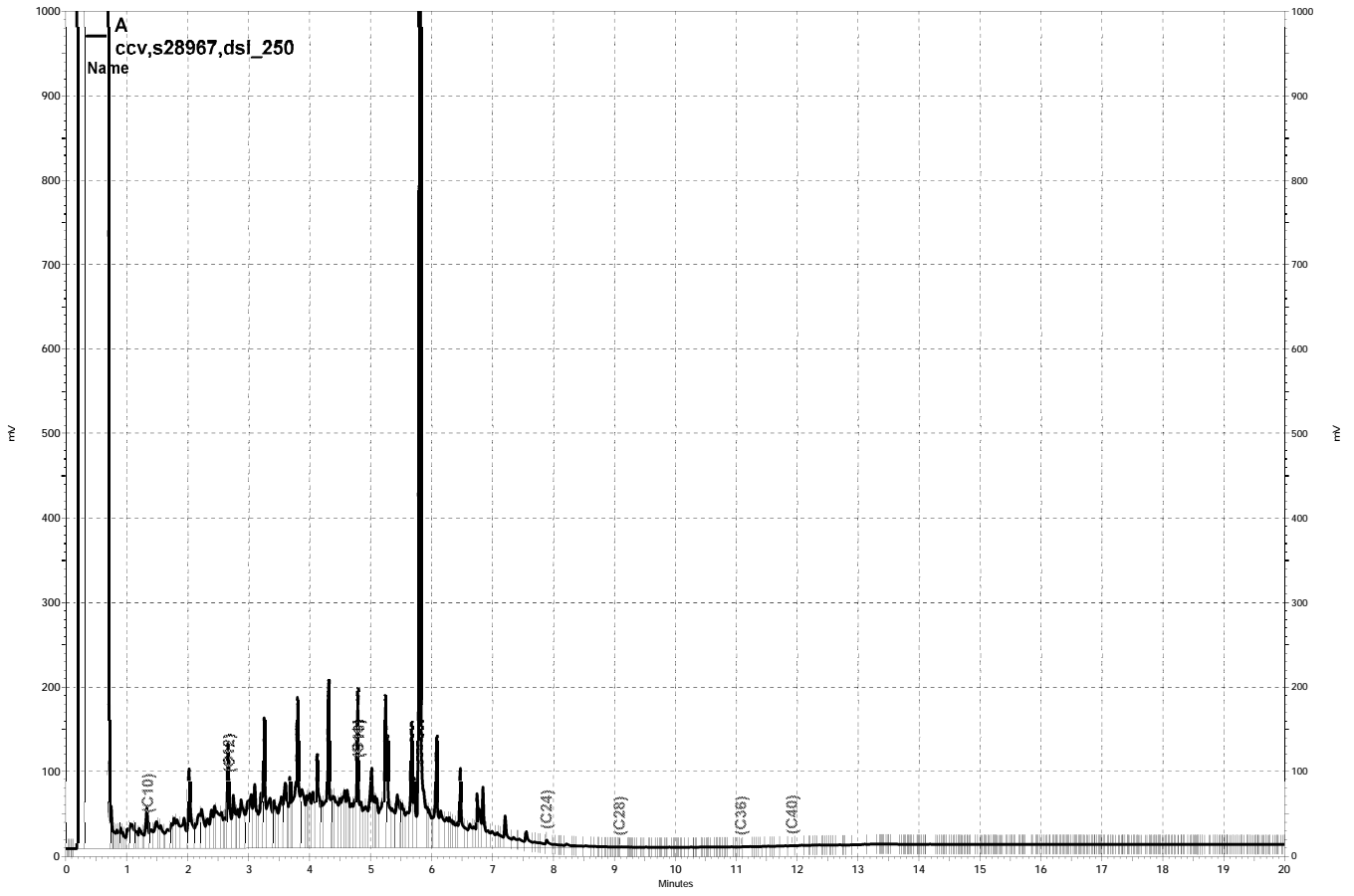
RPD= Relative Percent Difference



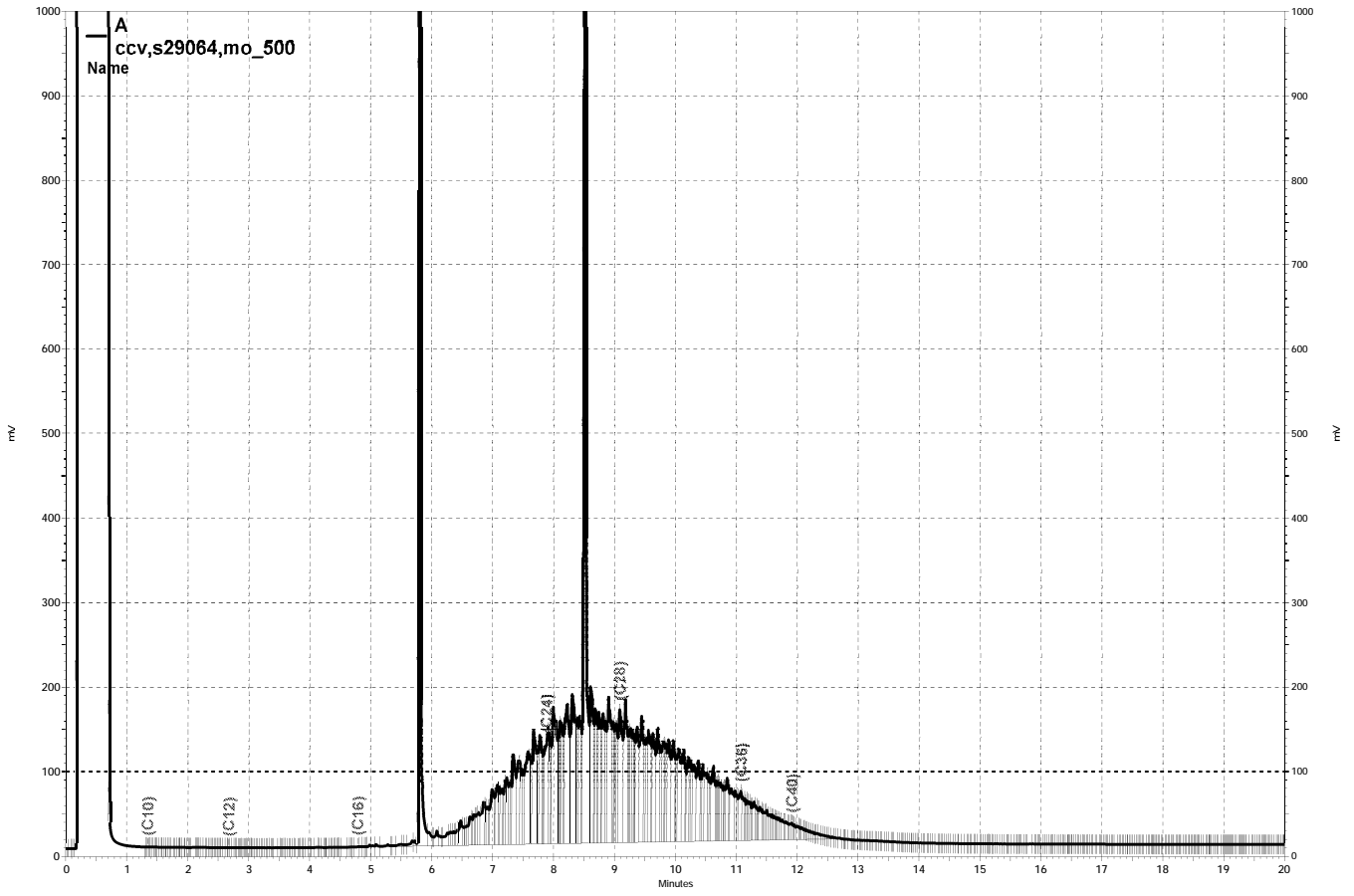
— \\Lims\gdrive\ezchrom\Projects\GC17A\Data\050a014, A



— \\Lims\gdrive\ezchrom\Projects\GC17A\Data\050a015, A



— \\Lims\gdrive\ezchrom\Projects\GC17A\Data\050a004, A



— \\Lims\gdrive\ezchrom\Projects\GC17A\Data\050a003, A

**Initial & Continuing Calibration Data**

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 274127 GCSV Soil: EPA 8015B

Inst : GC17A  
 Calnum : 175247623002  
 Units : mg/L

Name : DSL\_171  
 Date : 20-JUN-2015 15:31  
 X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	171a010	175247623010	DSL_10	20-JUN-2015 15:31	S27111
L2	171a011	175247623011	DSL_100	20-JUN-2015 15:59	S27112
L3	171a012	175247623012	DSL_500	20-JUN-2015 16:27	S27113
L4	171a013	175247623013	DSL_1000	20-JUN-2015 16:56	S27114
L5	171a014	175247623014	DSL_5000	20-JUN-2015 17:24	S27110

Analyte	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Diesel C10-C24	59139	64770	65011	65212	64156	AVRG		1.57E-5		63657	4	0.995	20	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D
Diesel C10-C24	10.000	-7	100.00	2	500.00	2	1000.0	2	5000.0	1

JDG 06/22/15 : Corrected automatically drawn baseline in DSL\_10 (171a010).

Analyst: JDG

Date: 06/22/15

Reviewer: EAH

Date: 06/22/15

Instrument amount = a0 + response \* a1 + response^2 \* a2; AVRG=Average response factor



CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 274127 GCSV Soil  
EPA 8015B

Inst : GC17A  
Calnum : 175247623002

Name : DSL\_171  
Cal Date : 20-JUN-2015

ICV 175247623016 (171a016 20-JUN-2015) stds: S27446

Analyte	Spiked	Quant	Units	%D	Max	Flags
Diesel C10-C24	500.0	495.1	mg/L	-1	15	

Analyst: JDG

Date: 06/22/15

Reviewer: EAH

Date: 06/22/15

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 274127 GCSV Soil: EPA 8015B

Inst : GC17A  
 Calnum : 175247623003  
 Units : mg/L

Name : MO\_171  
 Date : 20-JUN-2015 19:44  
 X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	171a019	175247623019	MO_50	20-JUN-2015 19:44	S26392
L2	171a020	175247623020	MO_250	20-JUN-2015 20:13	S26393
L3	171a021	175247623021	MO_500	20-JUN-2015 20:41	S26394
L4	171a022	175247623022	MO_1000	20-JUN-2015 21:09	S26395
L5	171a023	175247623023	MO_2500	20-JUN-2015 21:38	S26389 (2X)
L6	171a024	175247623024	MO_5000	20-JUN-2015 22:06	S26389

Analyte	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Motor Oil C24-C36	41077	42831	43194	44003	41096	42850	AVRG		2.35E-5		42508	3	0.995	20	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D
Motor Oil C24-C36	50.000	-3	250.00	1	500.00	2	1000.0	4	2500.0	-3	5000.0	1

JDG 06/22/15 : Corrected automatically drawn baseline in multiple levels.

Analyst: JDG

Date: 06/22/15

Reviewer: EAH

Date: 06/22/15

Instrument amount = a0 + response \* a1 + response^2 \* a2; AVRG=Average response factor

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 274127 GCSV Soil: EPA 8015B

Inst : GC17A  
 Calnum : 175394216001  
 Units : mg/L

Name : OTPHEX\_273  
 Date : 30-SEP-2015 19:13  
 X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	273a003	175394216003	HEXOTP_5	30-SEP-2015 19:13	S27409
L2	273a004	175394216004	HEXOTP_10	30-SEP-2015 19:41	S27410
L3	273a005	175394216005	HEXOTP_25	30-SEP-2015 20:09	S27411
L4	273a006	175394216006	HEXOTP_50	30-SEP-2015 20:37	S27412
L5	273a007	175394216007	HEXOTP_100	30-SEP-2015 21:06	S27413
L6	273a008	175394216008	HEXOTP_200	30-SEP-2015 21:34	S27414

Analyte	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
o-Terphenyl	71460	70831	71260	68676	69800	75121	AVRG		1.40E-5		71191	3	0.995	20	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D
o-Terphenyl	5.0000	0	10.000	-1	25.000	0	50.000	-4	100.00	-2	200.00	6

JDG 10/01/15 : Corrected automatically drawn baseline in multiple levels.

Analyst: JDG

Date: 10/01/15

Reviewer: EAH

Date: 10/01/15

Instrument amount = a0 + response \* a1 + response^2 \* a2; AVRG=Average response factor

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 274127 GCSV Soil  
EPA 8015B

Inst : GC17A                      Run Name : MO\_500                      IDF : 1.0  
 Seqnum : 176072478003              File : 050a003                      Time : 19-FEB-2016 08:54  
 Standards: S29064

Analyte	Cal	Caldate	Avg		Spiked	Quant	Units	%D	Max %D	Flags
			RF/CF	RF/CF						
Motor Oil C24-C36	175247623003	20-JUN-2015	42508	44922	500.0	528.4	mg/L	6	15	
o-Terphenyl	175394216001	30-SEP-2015	71191	74951	50.00	52.64	mg/L	5	15	

JDG 02/19/16 : Corrected automatically drawn baseline.

Analyst: JDG                      Date: 02/19/16                      Reviewer: PRW                      Date: 02/22/16

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 274127 GCSV Soil  
EPA 8015B

Inst : GC17A                      Run Name : DSL\_250                      IDF : 1.0  
 Seqnum : 176072478004              File : 050a004                      Time : 19-FEB-2016 09:23  
 Standards: S28967

Analyte	Cal	Caldate	Avg		Spiked	Quant	Units	%D	Max %D	Flags
			RF/CF	RF/CF						
Diesel C10-C24	175247623002	20-JUN-2015	63657	67120	250.0	263.6	mg/L	5	15	
o-Terphenyl	175394216001	30-SEP-2015	71191	75677	50.00	53.15	mg/L	6	15	

JDG 02/19/16 : Corrected automatically drawn baseline.

Analyst: JDG                      Date: 02/19/16                      Reviewer: PRW                      Date: 02/22/16

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 274127 GCSV Soil  
EPA 8015B

Inst : GC17A                      Run Name : MO\_500                      IDF : 1.0  
 Seqnum : 176072478019              File : 050a019                      Time : 19-FEB-2016 17:32  
 Standards: S29064

Analyte	Cal	Caldate	Avg		Spiked	Quant	Units	%D	Max %D	Flags
			RF/CF	RF/CF						
Motor Oil C24-C36	175247623003	20-JUN-2015	42508	45036	500.0	529.7	mg/L	6	15	
o-Terphenyl	175394216001	30-SEP-2015	71191	75719	50.00	53.18	mg/L	6	15	

RDG 02/19/16 : Corrected automatically drawn baseline.

Analyst: JDG                      Date: 02/22/16                      Reviewer: PRW                      Date: 02/22/16

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 274127 GCSV Soil  
EPA 8015B

Inst : GC17A                      Run Name : DSL\_500                      IDF : 1.0  
 Seqnum : 176072478020              File : 050a020                      Time : 19-FEB-2016 18:00  
 Standards: S28968

Analyte	Cal	Caldate	Avg		Spiked	Quant	Units	%D	Max %D	Flags
			RF/CF	RF/CF						
Diesel C10-C24	175247623002	20-JUN-2015	63657	63408	500.0	498.0	mg/L	0	15	
o-Terphenyl	175394216001	30-SEP-2015	71191	72322	50.00	50.79	mg/L	2	15	

RDG 02/19/16 : Corrected automatically drawn baseline.

Analyst: JDG                      Date: 02/22/16                      Reviewer: PRW                      Date: 02/22/16



## Logbooks & Sequences

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 175247623

Instrument : GC17A  
 Method : EPA 8015B

Begun : 06/20/15 11:16  
 SOP Version : TEH\_rv18

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
001	171a001	X	IB			06/20/15 11:16	1.0	
002	171a002	IB	CALIB			06/20/15 11:45	1.0	
003	171a003	ICAL	HEXOTP_5			06/20/15 12:13	1.0	1
004	171a004	ICAL	HEXOTP_10			06/20/15 12:41	1.0	2
005	171a005	ICAL	HEXOTP_25			06/20/15 13:09	1.0	3
006	171a006	ICAL	HEXOTP_50			06/20/15 13:38	1.0	4
007	171a007	ICAL	HEXOTP_100			06/20/15 14:06	1.0	5
008	171a008	ICAL	HEXOTP_200			06/20/15 14:34	1.0	6
009	171a009	IB	CALIB			06/20/15 15:02	1.0	
010	171a010	ICAL	DSL_10			06/20/15 15:31	1.0	7
011	171a011	ICAL	DSL_100			06/20/15 15:59	1.0	8
012	171a012	ICAL	DSL_500			06/20/15 16:27	1.0	9
013	171a013	ICAL	DSL_1000			06/20/15 16:56	1.0	10
014	171a014	ICAL	DSL_5000			06/20/15 17:24	1.0	11
015	171a015	IB	CALIB			06/20/15 17:52	1.0	
016	171a016	ICV	DSL_500			06/20/15 18:20	1.0	12
017	171a017	X	ICV			06/20/15 18:48	1.0	12
018	171a018	IB	CALIB			06/20/15 19:16	1.0	
019	171a019	ICAL	MO_50			06/20/15 19:44	1.0	13
020	171a020	ICAL	MO_250			06/20/15 20:13	1.0	14
021	171a021	ICAL	MO_500			06/20/15 20:41	1.0	15
022	171a022	ICAL	MO_1000			06/20/15 21:09	1.0	16
023	171a023	ICAL	MO_2500			06/20/15 21:38	1.0	17
024	171a024	ICAL	MO_5000			06/20/15 22:06	1.0	17
025	171a025	IB	CALIB			06/20/15 22:35	1.0	
026	171a026	CMARKER	C8-C50			06/20/15 23:03	1.0	18
027	171a027	IB	CALIB			06/20/15 23:32	1.0	

JDG 06/22/15 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 27.

Standards used: 1=S27409 2=S27410 3=S27411 4=S27412 5=S27413 6=S27414 7=S27111 8=S27112 9=S27113 10=S27114 11=S27110  
 12=S27446 13=S26392 14=S26393 15=S26394 16=S26395 17=S26389 18=S27269



CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 176072478

Instrument : GC17A  
 Method : EPA 8015B

Begun : 02/19/16 07:58  
 SOP Version : TEH\_rv18

#	File	Type	Sample ID	P	Matrix	Batch	Analyzed	IDF	Stds Used	
001	050a001	X	IB				02/19/16 07:58	1.0		
002	050a002	X	CMARKER				02/19/16 08:26	1.0	1	
003	050a003	CCV	MO_500				02/19/16 08:54	1.0	2	
004	050a004	CCV	DSL_250				02/19/16 09:23	1.0	3	
005	050a005	BLANK	QC823977		Soil	232232	02/19/16 10:40	1.0		
006	050a006	BLANK	QC823977	S	Soil	232232	02/19/16 11:08	1.0		
007	050a007	LCS	QC823978	S	Soil	232232	02/19/16 11:36	1.0		
008	050a008	MSS	274210-001		Soil	232232	02/19/16 12:04	1.0		
009	050a009	MS	QC823979		Soil	232232	02/19/16 12:52	1.0		
010	050a010	MSD	QC823980		Soil	232232	02/19/16 13:20	1.0		
011	050a011	X	IB				02/19/16 13:48	1.0		
012	050a012	SAMPLE	274198-001	S	Soil	232232	02/19/16 14:16	1.0		
013	050a013	SAMPLE	274198-002	S	Soil	232232	02/19/16 14:44	1.0		
014	050a014	SAMPLE	274127-003	S	Soil	232232	02/19/16 15:12	1.0		sh
015	050a015	SAMPLE	274127-007	S	Soil	232232	02/19/16 15:40	1.0		sh
016	050a016	SAMPLE	274200-001		Soil	232232	02/19/16 16:08	1.0		
017	050a017	SAMPLE	274196-001	S	Soil	232232	02/19/16 16:36	1.0		
018	050a018	SAMPLE	274196-002	S	Soil	232232	02/19/16 17:04	3.0		
019	050a019	CCV	MO_500				02/19/16 17:32	1.0	2	
020	050a020	CCV	DSL_500				02/19/16 18:00	1.0	4	
021	050a021	X	CCV				02/19/16 18:28	1.0	2	
022	050a022	X	CCV				02/19/16 18:56	1.0	4	
023	050a023	SAMPLE	274244-001		Soil	232232	02/19/16 19:24	1.0		
024	050a024	SAMPLE	274210-002		Soil	232232	02/19/16 19:52	1.0		
025	050a025	SAMPLE	274067-001	S	Soil	232232	02/19/16 20:20	50.0		2:BUNKC:10-40=6800
026	050a026	SAMPLE	274067-002	S	Soil	232232	02/19/16 20:48	50.0		
027	050a027	SAMPLE	274196-003	S	Soil	232232	02/19/16 21:16	1.0		2:BUNKC:12-40=7000
028	050a028	SAMPLE	274196-004	S	Soil	232232	02/19/16 21:43	3.0		
029	050a029	SAMPLE	274196-005	S	Soil	232232	02/19/16 22:11	1.0		
030	050a030	SAMPLE	274196-006	S	Soil	232232	02/19/16 22:39	1.0		
031	050a031	SAMPLE	274196-007	S	Soil	232232	02/19/16 23:08	1.0		3:BUNKC:12-40=11000
032	050a032	SAMPLE	274196-008	S	Soil	232232	02/19/16 23:37	3.0		
033	050a033	X	CMARKER				02/20/16 00:04	1.0	1	
034	050a034	CCV	MO_500				02/20/16 00:32	1.0	2	
035	050a035	CCV	DSL_1000				02/20/16 00:59	1.0	5	
036	050a036	X	CCV				02/20/16 01:27	1.0	2	
037	050a037	X	CCV				02/20/16 01:55	1.0	4	

JDG 02/22/16 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 37.

Standards used: 1=S28502 2=S29064 3=S28967 4=S28968 5=S28969

Flags used: sh=out of sample hold

SAMPLE PREPARATION SUMMARY

Batch # : 232232  
 Started By : KKL  
 Method : 3550B  
 Spike #1 ID : S29130

Prep Date : 18-FEB-2016 18:18  
 Spike #2 ID : S28814

Analysis : TEHM  
 Finished By : KKL  
 Units : g

Sample	Stype	Matrix	Initial	Final	Clean DF	Prep DF	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Clean Method	Analysis	Comments
274067-001		Soil	50.06	5	1	0.09988		1			3630C	TEHM	
274067-002		Soil	50.02	5	1	0.09996		1			3630C	TEHM	
274127-003		Soil	49.98	5	1	0.1000		1			3630C	TEHM	
274127-007		Soil	49.76	5	1	0.1005		1			3630C	TEHM	
274196-001		Soil	50.07	5	1	0.09986		1			3630C	TEHM	
274196-002		Soil	50.09	5	1	0.09982		1			3630C	TEHM	
274196-003		Soil	50.32	5	1	0.09936		1			3630C	TEHM	
274196-004		Soil	49.91	5	1	0.1002		1			3630C	TEHM	
274196-005		Soil	49.77	5	1	0.1005		1			3630C	TEHM	
274196-006		Soil	50.01	5	1	0.09998		1			3630C	TEHM	
274196-007		Soil	50.05	5	1	0.0999		1			3630C	TEHM	
274196-008		Soil	49.91	5	1	0.1002		1			3630C	TEHM	
274198-001		Soil	50.09	5	1	0.09982		1			3630C	TEHM	
274198-002		Soil	49.99	5	1	0.1000		1			3630C	TEHM	
274200-001		Soil	49.72	5	1	0.1006		1				TEHM	
274210-001		Soil	49.62	5	1	0.1008		1				TEHM	
274210-002		Soil	49.92	5	1	0.1002		1				TEHM	
274214-017		Soil	50.06	5	1	0.09988		1				TEHM	
274214-018		Soil	50.13	5	1	0.09974		1				TEHM	
274244-001		Soil	50.17	5	1	0.09966		1				TEHM	
QC823977	BLANK	Soil	50.1	5	1	0.0998		1			3630C	TEHM	
QC823978	LCS	Soil	50.14	5	1	0.09972		1	1		3630C	TEHM	
QC823979	MS	Soil	49.77	5	1	0.1005		1	1			TEHM	
QC823980	MSD	Soil	50.22	5	1	0.09956		1	1			TEHM	

Analyst: JDG

Date: 02/22/16

Reviewer: PRW

Date: 02/22/16

TEH (8015) Soil Prep Log

Curtis & Tompkins, Ltd.

BK 3759

Page 42

LIMS Batch No: 232232  
 LIMS Analysis: TEHM  
 Date Extracted: 2/18/16

Extraction Method:  
 EPA 3550 Sonication  
 \_\_\_\_\_

Cleanup Method (if necessary):  
 EPA 3630 Silica Gel

LIM:  
 LIM  
 Dat

Sample #	Container ID	Weight of Sample (g)	Final Volume (mL)	Cleanup (x if needed)	Comments
274067-001	B	50.06	5.0	X	
↓ 2	↓	50.02	5.0	X	
274127-003	A	49.98	5.0	X	
↓ 7	↓	49.76	5.0	X	
5 274196-001	B.	50.07	5.0	X	
↓ 2	C	50.09	5.0	X	
↓ 3	↓	50.32	5.0	X	
↓ 4	B	49.91	5.0	X	
↓ 5	C	49.77	5.0	X	
10 6	↓	50.01	5.0	X	
↓ 7	↓	50.05	5.0	X	
↓ 8	B	49.91	5.0	X	rocky
274198-001	↓	50.09	5.0	X	
↓ 2	↓	49.99	5.0	X	
15 274200-001	C	49.72	5.0		
274210-001	B	49.62	5.0		MSS
↓ 2	↓	49.92	5.0		
274214-017	Comp	50.06	5.0		Comp 274214-005, 6.7 @ 16.7g ea.
↓ 18	↓	50.13	5.0		↓ 8, 9, 10 ↓
20 274244-001	C	50.17	5.0		
MB QC823977	N/A	50.10	5.0	X	
LCS	78	50.14	5.0	X	
MS	79	49.77	5.0		
MSD	80	50.22	5.0		
			5.0		

MS/MSD not included due to:  insufficient volume, or  other (reason)

Balance ID: Wet Chem Has been calibrated?  Yes  No

Baked, solvent-rinsed granular Na<sub>2</sub>SO<sub>4</sub> weighed out for QC samples

Samples were dried with CH<sub>2</sub>Cl<sub>2</sub>-rinsed powdered Na<sub>2</sub>SO<sub>4</sub>

1.0 mL of Surrogate solution was added to all samples

1.0 mL of Spike solution was added to all spikes

1:1 CH<sub>2</sub>Cl<sub>2</sub> (lot# EM55233):Acetone (lot# FC156456) was added to all

Solvent added at (time)

Sonicated 3 times w/ ≥100mL 1:1 DCM:Acetone

Extracts filtered through baked, rinsed powdered Na<sub>2</sub>SO<sub>4</sub>

Concentrated to final volume in boiling H<sub>2</sub>O bath

Relinquished to TEH Department

Mfg & Lot # / LIMS # / Time Date/Initials

EMYA19G	KEL 2/18/16
↓	
S27130C	
S28214F	
✓	
18:18	
✓	
EM2535C502	
100	
✓	

Krista Law 2/18/16  
 Extraction Chemist / Date

Continued from page /  
 Continued on page /

[Signature] 2/22/16  
 Reviewed by / Date

Prep Chemist: KKL  
 Cleanup Date: 2/18/16

Benchbook # **BK 3754**  
 Page 70

Sample #	Extraction Batch#	Initial Volume (mL)	Final Volume (mL)	Comments
274067-001	232232	<input checked="" type="checkbox"/> 1.0 <input type="checkbox"/>	<input checked="" type="checkbox"/> 1.0 <input type="checkbox"/>	
↓ 2		<input checked="" type="checkbox"/> 1.0 <input type="checkbox"/>	<input checked="" type="checkbox"/> 1.0 <input type="checkbox"/>	
274127-003		<input checked="" type="checkbox"/> 1.0 <input type="checkbox"/>	<input checked="" type="checkbox"/> 1.0 <input type="checkbox"/>	
↓ 7		<input checked="" type="checkbox"/> 1.0 <input type="checkbox"/>	<input checked="" type="checkbox"/> 1.0 <input type="checkbox"/>	
5 274196-001		<input checked="" type="checkbox"/> 1.0 <input type="checkbox"/>	<input checked="" type="checkbox"/> 1.0 <input type="checkbox"/>	
↓ 2		<input checked="" type="checkbox"/> 1.0 <input type="checkbox"/>	<input checked="" type="checkbox"/> 1.0 <input type="checkbox"/>	
3		<input checked="" type="checkbox"/> 1.0 <input type="checkbox"/>	<input checked="" type="checkbox"/> 1.0 <input type="checkbox"/>	
4		<input checked="" type="checkbox"/> 1.0 <input type="checkbox"/>	<input checked="" type="checkbox"/> 1.0 <input type="checkbox"/>	
5		<input checked="" type="checkbox"/> 1.0 <input type="checkbox"/>	<input checked="" type="checkbox"/> 1.0 <input type="checkbox"/>	
10 6		<input checked="" type="checkbox"/> 1.0 <input type="checkbox"/>	<input checked="" type="checkbox"/> 1.0 <input type="checkbox"/>	
7		<input checked="" type="checkbox"/> 1.0 <input type="checkbox"/>	<input checked="" type="checkbox"/> 1.0 <input type="checkbox"/>	
↓ 8		<input checked="" type="checkbox"/> 1.0 <input type="checkbox"/>	<input checked="" type="checkbox"/> 1.0 <input type="checkbox"/>	
274198-001		<input checked="" type="checkbox"/> 1.0 <input type="checkbox"/>	<input checked="" type="checkbox"/> 1.0 <input type="checkbox"/>	
↓ 2		<input checked="" type="checkbox"/> 1.0 <input type="checkbox"/>	<input checked="" type="checkbox"/> 1.0 <input type="checkbox"/>	
15 MB Q6823977		<input checked="" type="checkbox"/> 1.0 <input type="checkbox"/>	<input checked="" type="checkbox"/> 1.0 <input type="checkbox"/>	
LCS ↓ 8		<input checked="" type="checkbox"/> 1.0 <input type="checkbox"/>	<input checked="" type="checkbox"/> 1.0 <input type="checkbox"/>	
		<input type="checkbox"/> 1.0 <input type="checkbox"/>	<input type="checkbox"/> 1.0 <input type="checkbox"/>	
		<input type="checkbox"/> 1.0 <input type="checkbox"/>	<input type="checkbox"/> 1.0 <input type="checkbox"/>	
20		<input type="checkbox"/> 1.0 <input type="checkbox"/>	<input type="checkbox"/> 1.0 <input type="checkbox"/>	
		<input type="checkbox"/> 1.0 <input type="checkbox"/>	<input type="checkbox"/> 1.0 <input type="checkbox"/>	
		<input type="checkbox"/> 1.0 <input type="checkbox"/>	<input type="checkbox"/> 1.0 <input type="checkbox"/>	
		<input type="checkbox"/> 1.0 <input type="checkbox"/>	<input type="checkbox"/> 1.0 <input type="checkbox"/>	
25		<input type="checkbox"/> 1.0 <input type="checkbox"/>	<input type="checkbox"/> 1.0 <input type="checkbox"/>	
		<input type="checkbox"/> 1.0 <input type="checkbox"/>	<input type="checkbox"/> 1.0 <input type="checkbox"/>	
		<input type="checkbox"/> 1.0 <input type="checkbox"/>	<input type="checkbox"/> 1.0 <input type="checkbox"/>	
		<input type="checkbox"/> 1.0 <input type="checkbox"/>	<input type="checkbox"/> 1.0 <input type="checkbox"/>	
30		<input type="checkbox"/> 1.0 <input type="checkbox"/>	<input type="checkbox"/> 1.0 <input type="checkbox"/>	
		<input type="checkbox"/> 1.0 <input type="checkbox"/>	<input type="checkbox"/> 1.0 <input type="checkbox"/>	

Extracts were cleaned up using C&T assembled 1.0 g columns  
 Extracts were cleaned up using      g cartridges  
 Extracts were eluted with 4.0 mL CH<sub>2</sub>Cl<sub>2</sub>  
 Concentrated to volumes as noted above

Mfg & Lot # / Time / Program	Initials / Date
Y14A041	KKL 2/18/16
N/A	↓
EM55233	
✓	↓

Kristin Law 2/18/16  
 Extraction Chemist / Date

Continued from page       
 Continued on page     

M 2/22/16  
 Reviewed by / Date



Laboratory Job Number 274127

ANALYTICAL REPORT

Pesticides

Matrix: Soil

Organochlorine Pesticides			
Lab #:	274127	Location:	Pin High Site, San Jose
Client:	Geologica	Prep:	EPA 3550B
Project#:	STANDARD	Analysis:	EPA 8081A
Field ID:	GP-2-3.5-4'	Batch#:	232077
Lab ID:	274127-005	Sampled:	01/21/16
Matrix:	Soil	Received:	02/12/16
Units:	ug/Kg	Prepared:	02/15/16
Basis:	dry	Analyzed:	02/16/16
Diln Fac:	10.00		

Moisture: 23%

Analyte	Result	RL
alpha-BHC	ND b	22
beta-BHC	ND b	22
gamma-BHC	ND b	22
delta-BHC	ND b	22
Heptachlor	ND b	22
Aldrin	ND b	22
Heptachlor epoxide	ND b	22
Endosulfan I	ND b	22
Dieldrin	ND b	22
4,4'-DDE	ND b	43
Endrin	ND b	43
Endosulfan II	ND b	43
Endosulfan sulfate	ND b	43
4,4'-DDD	ND b	43
Endrin aldehyde	ND b	43
4,4'-DDT	ND b	43
alpha-Chlordane	ND b	22
gamma-Chlordane	ND b	22
Methoxychlor	ND b	220
Toxaphene	ND b	790

Surrogate	%REC	Limits
TCMX	DO b	44-125
Decachlorobiphenyl	DO b	39-121

b= See narrative  
 DO= Diluted Out  
 ND= Not Detected  
 RL= Reporting Limit

Organochlorine Pesticides			
Lab #:	274127	Location:	Pin High Site, San Jose
Client:	Geologica	Prep:	EPA 3550B
Project#:	STANDARD	Analysis:	EPA 8081A
Field ID:	GP-3-3.5-4'	Batch#:	232077
Lab ID:	274127-008	Sampled:	01/21/16
Matrix:	Soil	Received:	02/12/16
Units:	ug/Kg	Prepared:	02/15/16
Basis:	dry	Analyzed:	02/17/16
Diln Fac:	20.00		

Moisture: 7%

Analyte	Result	RL
alpha-BHC	ND b	37
beta-BHC	ND b	37
gamma-BHC	ND b	37
delta-BHC	ND b	37
Heptachlor	ND b	37
Aldrin	ND b	37
Heptachlor epoxide	ND b	37
Endosulfan I	ND b	37
Dieldrin	ND b	37
4,4'-DDE	ND b	72
Endrin	ND b	72
Endosulfan II	ND b	72
Endosulfan sulfate	ND b	72
4,4'-DDD	ND b	72
Endrin aldehyde	ND b	72
4,4'-DDT	ND b	72
alpha-Chlordane	ND b	37
gamma-Chlordane	ND b	37
Methoxychlor	ND b	370
Toxaphene	ND b	1,300

Surrogate	%REC	Limits
TCMX	DO b	44-125
Decachlorobiphenyl	DO b	39-121

b= See narrative  
 DO= Diluted Out  
 ND= Not Detected  
 RL= Reporting Limit

Organochlorine Pesticides			
Lab #:	274127	Location:	Pin High Site, San Jose
Client:	Geologica	Prep:	EPA 3550B
Project#:	STANDARD	Analysis:	EPA 8081A
Field ID:	GP-4-3.5-4'	Batch#:	232077
Lab ID:	274127-012	Sampled:	01/21/16
Matrix:	Soil	Received:	02/12/16
Units:	ug/Kg	Prepared:	02/15/16
Basis:	dry	Analyzed:	02/17/16
Diln Fac:	2.000		

Moisture: 34%

Analyte	Result	RL
alpha-BHC	ND b	5.2
beta-BHC	ND b	5.2
gamma-BHC	ND b	5.2
delta-BHC	ND b	5.2
Heptachlor	ND b	5.2
Aldrin	ND b	5.2
Heptachlor epoxide	ND b	5.2
Endosulfan I	ND b	5.2
Dieldrin	ND b	5.2
4,4'-DDE	ND b	10
Endrin	ND b	10
Endosulfan II	ND b	10
Endosulfan sulfate	ND b	10
4,4'-DDD	ND b	10
Endrin aldehyde	ND b	10
4,4'-DDT	ND b	10
alpha-Chlordane	ND b	5.2
gamma-Chlordane	ND b	5.2
Methoxychlor	ND b	52
Toxaphene	ND b	180

Surrogate	%REC	Limits
TCMX	67 b	44-125
Decachlorobiphenyl	87 b	39-121

b= See narrative

ND= Not Detected

RL= Reporting Limit

Organochlorine Pesticides			
Lab #:	274127	Location:	Pin High Site, San Jose
Client:	Geologica	Prep:	EPA 3550B
Project#:	STANDARD	Analysis:	EPA 8081A
Field ID:	GP-5-4.5-5'	Batch#:	232077
Lab ID:	274127-016	Sampled:	01/21/16
Matrix:	Soil	Received:	02/12/16
Units:	ug/Kg	Prepared:	02/15/16
Basis:	dry	Analyzed:	02/17/16
Diln Fac:	5.000		

Moisture: 18%

Analyte	Result	RL
alpha-BHC	ND b	10
beta-BHC	ND b	10
gamma-BHC	ND b	10
delta-BHC	ND b	10
Heptachlor	ND b	10
Aldrin	ND b	10
Heptachlor epoxide	ND b	10
Endosulfan I	ND b	10
Dieldrin	ND b	10
4,4'-DDE	ND b	20
Endrin	ND b	20
Endosulfan II	ND b	20
Endosulfan sulfate	ND b	20
4,4'-DDD	ND b	20
Endrin aldehyde	ND b	20
4,4'-DDT	ND b	20
alpha-Chlordane	13 C b	10
gamma-Chlordane	ND b	10
Methoxychlor	ND b	100
Toxaphene	ND b	370

Surrogate	%REC	Limits
TCMX	75 b	44-125
Decachlorobiphenyl	116 b	39-121

C= Presence confirmed, but RPD between columns exceeds 40%

b= See narrative

ND= Not Detected

RL= Reporting Limit

Organochlorine Pesticides			
Lab #:	274127	Location:	Pin High Site, San Jose
Client:	Geologica	Prep:	EPA 3550B
Project#:	STANDARD	Analysis:	EPA 8081A
Field ID:	GP-7-3.5-4'	Batch#:	232077
Lab ID:	274127-024	Sampled:	01/22/16
Matrix:	Soil	Received:	02/12/16
Units:	ug/Kg	Prepared:	02/15/16
Basis:	dry	Analyzed:	02/17/16
Diln Fac:	1.000		

Moisture: 17%

Analyte	Result	RL
alpha-BHC	ND b	2.0
beta-BHC	ND b	2.0
gamma-BHC	ND b	2.0
delta-BHC	ND b	2.0
Heptachlor	ND b	2.0
Aldrin	ND b	2.0
Heptachlor epoxide	ND b	2.0
Endosulfan I	ND b	2.0
Dieldrin	ND b	2.0
4,4'-DDE	ND b	4.0
Endrin	ND b	4.0
Endosulfan II	ND b	4.0
Endosulfan sulfate	ND b	4.0
4,4'-DDD	ND b	4.0
Endrin aldehyde	ND b	4.0
4,4'-DDT	ND b	4.0
alpha-Chlordane	ND b	2.0
gamma-Chlordane	ND b	2.0
Methoxychlor	ND b	20
Toxaphene	ND b	72

Surrogate	%REC	Limits
TCMX	75 b	44-125
Decachlorobiphenyl	96 b	39-121

b= See narrative

ND= Not Detected

RL= Reporting Limit

Organochlorine Pesticides			
Lab #:	274127	Location:	Pin High Site, San Jose
Client:	Geologica	Prep:	EPA 3550B
Project#:	STANDARD	Analysis:	EPA 8081A
Field ID:	GP-9-4.5-5'	Batch#:	232077
Lab ID:	274127-032	Sampled:	01/22/16
Matrix:	Soil	Received:	02/12/16
Units:	ug/Kg	Prepared:	02/15/16
Basis:	dry	Analyzed:	02/17/16
Diln Fac:	20.00		

Moisture: 24%

Analyte	Result	RL
alpha-BHC	ND b	44
beta-BHC	ND b	44
gamma-BHC	ND b	44
delta-BHC	ND b	44
Heptachlor	ND b	44
Aldrin	ND b	44
Heptachlor epoxide	ND b	44
Endosulfan I	ND b	44
Dieldrin	ND b	44
4,4'-DDE	ND b	86
Endrin	ND b	86
Endosulfan II	ND b	86
Endosulfan sulfate	ND b	86
4,4'-DDD	ND b	86
Endrin aldehyde	ND b	86
4,4'-DDT	ND b	86
alpha-Chlordane	ND b	44
gamma-Chlordane	ND b	44
Methoxychlor	ND b	440
Toxaphene	ND b	1,600

Surrogate	%REC	Limits
TCMX	DO b	44-125
Decachlorobiphenyl	DO b	39-121

b= See narrative  
 DO= Diluted Out  
 ND= Not Detected  
 RL= Reporting Limit



Organochlorine Pesticides			
Lab #:	274127	Location:	Pin High Site, San Jose
Client:	Geologica	Prep:	EPA 3550B
Project#:	STANDARD	Analysis:	EPA 8081A
Field ID:	GP-11-3.5-4'	Batch#:	232077
Lab ID:	274127-040	Sampled:	01/22/16
Matrix:	Soil	Received:	02/12/16
Units:	ug/Kg	Prepared:	02/15/16
Basis:	dry	Analyzed:	02/17/16
Diln Fac:	10.00		

Moisture: 19%

Analyte	Result	RL
alpha-BHC	ND b	21
beta-BHC	ND b	21
gamma-BHC	ND b	21
delta-BHC	ND b	21
Heptachlor	ND b	21
Aldrin	ND b	21
Heptachlor epoxide	ND b	21
Endosulfan I	ND b	21
Dieldrin	ND b	21
4,4'-DDE	ND b	41
Endrin	ND b	41
Endosulfan II	ND b	41
Endosulfan sulfate	ND b	41
4,4'-DDD	ND b	41
Endrin aldehyde	ND b	41
4,4'-DDT	ND b	41
alpha-Chlordane	ND b	21
gamma-Chlordane	ND b	21
Methoxychlor	ND b	210
Toxaphene	ND b	740

Surrogate	%REC	Limits
TCMX	DO b	44-125
Decachlorobiphenyl	DO b	39-121

b= See narrative  
 DO= Diluted Out  
 ND= Not Detected  
 RL= Reporting Limit

**Batch QC Report**

<b>Organochlorine Pesticides</b>			
Lab #:	274127	Location:	Pin High Site, San Jose
Client:	Geologica	Prep:	EPA 3550B
Project#:	STANDARD	Analysis:	EPA 8081A
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC823330	Batch#:	232077
Matrix:	Soil	Prepared:	02/15/16
Units:	ug/Kg	Analyzed:	02/16/16

<b>Analyte</b>	<b>Result</b>	<b>RL</b>
alpha-BHC	ND	0.85
beta-BHC	ND	0.85
gamma-BHC	ND	0.85
delta-BHC	ND	0.85
Heptachlor	ND	0.85
Aldrin	ND	0.85
Heptachlor epoxide	ND	0.85
Endosulfan I	ND	0.85
Dieldrin	ND	0.85
4,4'-DDE	ND	1.6
Endrin	ND	1.6
Endosulfan II	ND	1.6
Endosulfan sulfate	ND	1.6
4,4'-DDD	ND	1.6
Endrin aldehyde	ND	1.6
4,4'-DDT	ND	1.6
alpha-Chlordane	ND	0.85
gamma-Chlordane	ND	0.85
Methoxychlor	ND	8.5
Toxaphene	ND	30

<b>Surrogate</b>	<b>%REC</b>	<b>Limits</b>
TCMX	82	44-125
Decachlorobiphenyl	107	39-121

ND= Not Detected  
 RL= Reporting Limit

**Batch QC Report**

<b>Organochlorine Pesticides</b>			
Lab #:	274127	Location:	Pin High Site, San Jose
Client:	Geologica	Prep:	EPA 3550B
Project#:	STANDARD	Analysis:	EPA 8081A
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC823331	Batch#:	232077
Matrix:	Soil	Prepared:	02/15/16
Units:	ug/Kg	Analyzed:	02/16/16

<b>Analyte</b>	<b>Spiked</b>	<b>Result</b>	<b>%REC</b>	<b>Limits</b>
gamma-BHC	13.49	12.31	91	44-121
Heptachlor	13.49	14.42	107	45-129
Aldrin	13.49	13.15	98	45-120
Dieldrin	13.49	14.87	110	49-131
Endrin	13.49	15.52 #	115	43-135
4,4'-DDT	13.49	15.22	113	37-141

<b>Surrogate</b>	<b>%REC</b>	<b>Limits</b>
TCMX	87	44-125
Decachlorobiphenyl	110	39-121

#= CCV drift outside limits; average CCV drift within limits per method requirements

**Batch QC Report**

Organochlorine Pesticides			
Lab #:	274127	Location:	Pin High Site, San Jose
Client:	Geologica	Prep:	EPA 3550B
Project#:	STANDARD	Analysis:	EPA 8081A
Field ID:	ZZZZZZZZZZ	Batch#:	232077
MSS Lab ID:	274131-003	Sampled:	02/11/16
Matrix:	Soil	Received:	02/12/16
Units:	ug/Kg	Prepared:	02/15/16
Basis:	as received	Analyzed:	02/16/16
Diln Fac:	1.000		

Type: MS Lab ID: QC823332

Analyte	MSS Result	Spiked	Result	%REC	Limits
gamma-BHC	<0.1087	13.33	11.47	86	51-126
Heptachlor	0.8753	13.33	12.50	87	53-135
Aldrin	<0.1030	13.33	12.30	92	52-121
Dieldrin	0.3380	13.33	13.95	102	50-138
Endrin	<0.2603	13.33	16.71 #	125	41-156
4,4'-DDT	10.25	13.33	20.12	74	30-156

Surrogate	%REC	Limits
TCMX	77	44-125
Decachlorobiphenyl	100	39-121

Type: MSD Lab ID: QC823333

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
gamma-BHC	13.38	10.09	75	51-126	13	40
Heptachlor	13.38	11.15	77	53-135	12	34
Aldrin	13.38	10.84	81	52-121	13	44
Dieldrin	13.38	12.27	89	50-138	13	38
Endrin	13.38	14.44 #	108	41-156	15	38
4,4'-DDT	13.38	16.69	48	30-156	19	58

Surrogate	%REC	Limits
TCMX	69	44-125
Decachlorobiphenyl	88	39-121

#= CCV drift outside limits; average CCV drift within limits per method requirements  
 RPD= Relative Percent Difference

Confirmation Report for 274127 PEST Soil  
Curtis & Tompkins Laboratories

Units: ug/Kg

Lab ID	Client ID	Analyte	Result	Confirmation	RPD	%D
274127-016	GP-5-4.5-5'	alpha-Chlordane	13.13 C	7.179	59	-45

C=RPD between columns exceeds 40%

Page 1 of 1

**Initial & Continuing Calibration Data**

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 274127 PEST Soil: EPA 8081A

Inst : GC21  
 Calnum : 246006285001  
 Units : pg/uL

Name : GC21\_pest\_004  
 Date : 04-JAN-2016 14:44

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	004_008	246006285008	ISOPEST_1/2	04-JAN-2016 14:44	S28519
L2	004_009	246006285009	ISOPEST_1	04-JAN-2016 15:05	S28520
L3	004_010	246006285010	ISOPEST_2	04-JAN-2016 15:27	S28521
L4	004_011	246006285011	ISOPEST_3	04-JAN-2016 15:49	S28402
L5	004_012	246006285012	ISOPEST_4	04-JAN-2016 16:11	S28522
L6	004_013	246006285013	ISOPEST_5	04-JAN-2016 16:33	S28523
L7	004_014	246006285014	ISOPEST_6	04-JAN-2016 16:55	S28524
L8	004_015	246006285015	ISOPEST_7	04-JAN-2016 17:17	S28525

Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	L8	Type	X	a0	a1	a2	Avg	r <sup>2</sup> %RSD	MnR <sup>2</sup>	MxRSD	Flg
alpha-BHC	A	27437	25842	25068	25820	26254	26552	24474	19798	AVRG	R		3.98E-5		25156	9	0.990	20	
gamma-BHC	A	25099	23622	22685	23125	23491	24096	22156	18001	AVRG	R		4.39E-5		22784	9	0.990	20	
beta-BHC	A	11885	10136	9369.8	9223.4	8865.6	9014.8	9218.9	8974.4	AVRG	R		1.04E-4		9586.0	11	0.990	20	
delta-BHC	A	26112	23998	22241	22647	22800	23526	21290	16840	AVRG	R		4.46E-5		22432	12	0.990	20	
Heptachlor	A	22773	21687	20640	20829	20986	21714	19873	15865	AVRG	R		4.87E-5		20546	10	0.990	20	
Aldrin	A	19545	21144	20215	20170	19889	21020	18880	15320	AVRG	R		5.12E-5		19523	9	0.990	20	
Heptachlor epoxide	A	21163	19048	17822	17692	17690	18447	16938	13722	AVRG	R		5.61E-5		17815	12	0.990	20	
gamma-Chlordane	A	19529	18778	17737	17815	17968	18882	17375	14199	AVRG	R		5.62E-5		17785	9	0.990	20	
alpha-Chlordane	A	18664	18039	16939	16849	16889	17881	16497	13561	AVRG	R		5.91E-5		16915	9	0.990	20	
4,4'-DDE	A	18088	17526	16701	17205	16691	16967	13232	9291.8	AVRG	R		6.36E-5		15713	19	0.990	20	
Endosulfan I	A	18101	17319	16166	16067	16081	17000	15693	13058	AVRG	R		6.18E-5		16186	9	0.990	20	
Dieldrin	A	18059	17633	16786	17448	16855	17003	13139	9257.8	AVRG	R		6.34E-5		15772	19	0.990	20	
Endrin	A	11909	11748	10999	11209	11165	11938	10042	7614.5	AVRG	R		9.24E-5		10828	13	0.990	20	
4,4'-DDD	A	13493	13625	12827	12979	13095	13464	10833	7965.8	AVRG	R		8.14E-5		12285	16	0.990	20	
Endosulfan II	A	14543	14658	13667	13701	13463	14021	11231	8280.6	AVRG	R		7.72E-5		12945	17	0.990	20	
4,4'-DDT	A	14065	13944	13322	13725	13701	14107	11128	8012.0	AVRG	R		7.84E-5		12750	17	0.990	20	
Endrin aldehyde	A	11373	11048	10064	10150	10756	11303	9672.4	7392.7	AVRG	R		9.79E-5		10220	13	0.990	20	
Methoxychlor	A	5564.6	5757.0	5712.7	5575.3	4748.4	4515.2	3064.5		AVRG	R		2.00E-4		4991.1	20	0.990	20	
Endosulfan sulfate	A	13114	12666	11706	11763	11904	12664	10804	8257.4	AVRG	R		8.61E-5		11610	13	0.990	20	
TCMX	A	18068	17194	14864	15575	17127	17204	15254	12178	AVRG	R		6.28E-5		15933	12	0.990	20	
Decachlorobiphenyl	A	11272	11434	10620	10239	10385	11325	10706	9453.2	AVRG	R		9.36E-5		10679	6	0.990	20	
alpha-BHC	B	6022.0	5665.5	5885.4	6955.1	8477.7	8781.6	7625.1	6074.5	AVRG	R		1.44E-4		6935.9	18	0.990	20	
gamma-BHC	B	5521.0	5288.0	5642.8	6559.4	8123.6	8393.4	7187.4	5589.5	AVRG	R		1.53E-4		6538.1	19	0.990	20	
beta-BHC	B		1818.5	1866.6	1907.0	2127.6	2446.0	3119.1	3148.6	QUAD	A	-8236.1	2924.54	3.237752	2347.6	0.997	0.990	20	
delta-BHC	B		3286.5	3673.6	4959.4	6416.5	7597.0	6323.1	4793.8	QUAD	A	-20419	8602.26	-36.0645	5292.8	0.996	0.990	20	

Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	L8	Type	X	a0	a1	a2	Avg	r <sup>2</sup> %RSD	MnR <sup>2</sup>	MxRSD	Flg
Heptachlor	B		5378.0	5698.0	7020.0	8519.2	8859.2	7368.6	5649.4	QUAD	A	-14244	9876.50	-40.9717	6927.5	0.998	0.990	20	
Aldrin	B	5209.0	5070.5	5386.2	6498.2	7889.0	8041.3	6661.4	4980.7	AVRG	R		1.61E-4		6217.0	20	0.990	20	
Heptachlor epoxide	B	4576.0	4554.0	4545.4	5399.4	6738.4	6974.6	5709.9	4280.9	AVRG	R		1.87E-4		5347.3	20	0.990	20	
gamma-Chlordane	B		4536.0	4702.0	5648.3	7130.2	7353.5	6018.1	4400.1	QUAD	A	-12605	8323.72	-38.0822	5684.0	0.998	0.990	20	
alpha-Chlordane	B		4077.5	4292.6	5264.4	6768.5	7029.2	5788.8	4191.5	QUAD	A	-13665	8054.59	-37.3490	5344.6	0.998	0.990	20	
4,4'-DDE	B	3808.0	3847.5	4371.6	5539.1	5916.0	5700.7	4471.4		QUAD	A	-15777	7246.26	-26.0538	4807.7	0.998	0.990	20	
Endosulfan I	B		4173.0	4340.4	5034.0	6635.5	6787.6	5784.4	4254.1	QUAD	A	-13879	7890.16	-35.0190	5287.0	0.998	0.990	20	
Dieldrin	B	4649.5	4751.5	5846.1	6989.5	6397.4	5959.4	4232.5		AVRG	R		1.80E-4		5546.6	18	0.990	20	
Endrin	B	3235.5	3238.8	3682.2	4706.9	4784.1	4672.2	3548.3		QUAD	A	-12344	5995.72	-23.1489	3981.1	0.998	0.990	20	
4,4'-DDD	B	2935.0	3011.8	3362.2	4193.7	4810.0	4748.6	3787.1		QUAD	A	-14587	5875.02	-19.2676	3835.5	0.997	0.990	20	
Endosulfan II	B	3809.5	3836.8	4419.6	5609.0	5616.5	5366.4	3936.6		QUAD	A	-14132	7111.75	-30.2565	4656.3	0.999	0.990	20	
4,4'-DDT	B	3229.0	3165.5	3965.8	5317.6	5412.2	5323.4	3911.6		QUAD	A	-16531	6977.90	-28.8873	4332.2	0.998	0.990	20	
Endrin aldehyde	B	2803.5	2834.3	3011.8	3906.9	4585.9	4538.6	3520.7		QUAD	A	-15263	5700.82	-20.1036	3600.2	0.996	0.990	20	
Methoxychlor	B	1290.8	1414.0	1787.2	1752.8	1404.8	1301.8			QUAD	A	-9125.8	2112.34	-3.14979	1491.9	0.999	0.990	20	
Endosulfan sulfate	B	3161.0	3169.5	3411.7	4202.6	4613.0	4595.7	3653.9	2574.1	AVRG	R		2.72E-4		3672.7	20	0.990	20	
TCMX	B	2558.5	2536.5	2675.7	3062.9	3981.5	4289.0	4054.3		QUAD	A	-11482	4390.54	-2.01608	3308.3	0.997	0.990	20	
Decachlorobiphenyl	B	2388.0	2461.8	2571.9	2904.3	3239.5	3390.6	2867.0	2192.2	AVRG	R		3.63E-4		2751.9	15	0.990	20	
Average EPA 8081A	A														(n=23)	13		20	
Average EPA 8081A	B														(n=23)	20		20	



Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D	L7	%D	L8	%D
alpha-BHC	A	1.0000	9	2.0000	3	5.0000	0	10.000	3	20.000	4	25.000	6	50.000	-3	100.00	-21
gamma-BHC	A	1.0000	10	2.0000	4	5.0000	0	10.000	1	20.000	3	25.000	6	50.000	-3	100.00	-21
beta-BHC	A	1.0000	<b>24</b>	2.0000	6	5.0000	-2	10.000	-4	20.000	-8	25.000	-6	50.000	-4	100.00	-6
delta-BHC	A	1.0000	16	2.0000	7	5.0000	-1	10.000	1	20.000	2	25.000	5	50.000	-5	100.00	-25
Heptachlor	A	1.0000	11	2.0000	6	5.0000	0	10.000	1	20.000	2	25.000	6	50.000	-3	100.00	-23
Aldrin	A	1.0000	0	2.0000	8	5.0000	4	10.000	3	20.000	2	25.000	8	50.000	-3	100.00	-22
Heptachlor epoxide	A	1.0000	19	2.0000	7	5.0000	0	10.000	-1	20.000	-1	25.000	4	50.000	-5	100.00	-23
gamma-Chlordane	A	1.0000	10	2.0000	6	5.0000	0	10.000	0	20.000	1	25.000	6	50.000	-2	100.00	-20
alpha-Chlordane	A	1.0000	10	2.0000	7	5.0000	0	10.000	0	20.000	0	25.000	6	50.000	-2	100.00	-20
4,4'-DDE	A	2.0000	15	4.0000	12	10.000	6	20.000	9	40.000	6	50.000	8	100.00	-16	200.00	-41
Endosulfan I	A	1.0000	12	2.0000	7	5.0000	0	10.000	-1	20.000	-1	25.000	5	50.000	-3	100.00	-19
Dieldrin	A	2.0000	14	4.0000	12	10.000	6	20.000	11	40.000	7	50.000	8	100.00	-17	200.00	-41
Endrin	A	2.0000	10	4.0000	8	10.000	2	20.000	4	40.000	3	50.000	10	100.00	-7	200.00	-30
4,4'-DDD	A	2.0000	10	4.0000	11	10.000	4	20.000	6	40.000	7	50.000	10	100.00	-12	200.00	-35
Endosulfan II	A	2.0000	12	4.0000	13	10.000	6	20.000	6	40.000	4	50.000	8	100.00	-13	200.00	-36
4,4'-DDT	A	2.0000	10	4.0000	9	10.000	4	20.000	8	40.000	7	50.000	11	100.00	-13	200.00	-37
Endrin aldehyde	A	2.0000	11	4.0000	8	10.000	-2	20.000	-1	40.000	5	50.000	11	100.00	-5	200.00	-28
Methoxychlor	A	10.000	11	20.000	15	50.000	14	100.00	12	200.00	-5	250.00	-10	500.00	-39		
Endosulfan sulfate	A	2.0000	13	4.0000	9	10.000	1	20.000	1	40.000	3	50.000	9	100.00	-7	200.00	-29
TCMX	A	2.0000	13	4.0000	8	10.000	-7	20.000	-2	40.000	7	50.000	8	100.00	-4	200.00	-24
Decachlorobiphenyl	A	2.0000	6	4.0000	7	10.000	-1	20.000	-4	40.000	-3	50.000	6	100.00	0	200.00	-11
alpha-BHC	B	1.0000	-13	2.0000	-18	5.0000	-15	10.000	0	20.000	<b>22</b>	25.000	<b>27</b>	50.000	10	100.00	-12
gamma-BHC	B	1.0000	-16	2.0000	-19	5.0000	-14	10.000	0	20.000	<b>24</b>	25.000	<b>28</b>	50.000	10	100.00	-15
beta-BHC	B			2.0000	<b>102</b>	5.0000	19	10.000	-8	20.000	-15	25.000	-7	50.000	6	100.00	0
delta-BHC	B			2.0000	<b>59</b>	5.0000	-8	10.000	-16	20.000	-6	25.000	11	50.000	-1	100.00	0
Heptachlor	B			2.0000	<b>28</b>	5.0000	-12	10.000	-11	20.000	2	25.000	7	50.000	-3	100.00	1
Aldrin	B	1.0000	-16	2.0000	-18	5.0000	-13	10.000	5	20.000	<b>27</b>	25.000	<b>29</b>	50.000	7	100.00	-20
Heptachlor epoxide	B	1.0000	-14	2.0000	-15	5.0000	-15	10.000	1	20.000	<b>26</b>	25.000	<b>30</b>	50.000	7	100.00	-20
gamma-Chlordane	B			2.0000	<b>32</b>	5.0000	-11	10.000	-14	20.000	3	25.000	8	50.000	-3	100.00	2
alpha-Chlordane	B			2.0000	<b>37</b>	5.0000	-11	10.000	-14	20.000	2	25.000	7	50.000	-3	100.00	2
4,4'-DDE	B	2.0000	<b>63</b>	4.0000	9	10.000	-15	20.000	-6	40.000	2	50.000	2	100.00	-1		
Endosulfan I	B			2.0000	<b>43</b>	5.0000	-8	10.000	-15	20.000	2	25.000	5	50.000	-2	100.00	1
Dieldrin	B	2.0000	-16	4.0000	-14	10.000	5	20.000	<b>26</b>	40.000	15	50.000	7	100.00	<b>-24</b>		
Endrin	B	2.0000	<b>59</b>	4.0000	7	10.000	-15	20.000	-4	40.000	1	50.000	2	100.00	-1		
4,4'-DDD	B	2.0000	<b>76</b>	4.0000	15	10.000	-16	20.000	-11	40.000	2	50.000	3	100.00	-1		
Endosulfan II	B	2.0000	<b>55</b>	4.0000	6	10.000	-15	20.000	-3	40.000	1	50.000	1	100.00	-1		
4,4'-DDT	B	2.0000	<b>67</b>	4.0000	6	10.000	-17	20.000	-4	40.000	0	50.000	3	100.00	-1		
Endrin aldehyde	B	2.0000	<b>85</b>	4.0000	19	10.000	-18	20.000	-13	40.000	2	50.000	4	100.00	-1		
Methoxychlor	B	10.000	6	20.000	-9	50.000	1	100.00	3	200.00	-4	250.00	3				
Endosulfan sulfate	B	2.0000	-14	4.0000	-14	10.000	-7	20.000	14	40.000	<b>26</b>	50.000	<b>25</b>	100.00	-1	200.00	<b>-30</b>
TCMX	B	2.0000	<b>89</b>	4.0000	<b>23</b>	10.000	-13	20.000	-17	40.000	-1	50.000	5	100.00	0		
Decachlorobiphenyl	B	2.0000	-13	4.0000	-11	10.000	-7	20.000	6	40.000	18	50.000	<b>23</b>	100.00	4	200.00	-20

JCD 01/12/16 : Dropped various points for optimal RSDs.

JCD 01/12/16 : Corrected automatically drawn baseline for all channels in multiple levels.

JCD 01/12/16 : Separated from coeluting peak for all channels in multiple levels.

JCD 01/13/16 : high bias in the low point on channel B, any hits below 5pg/uL will be examined and confirmed on another instrument.

Analyst: JCD Date: 01/13/16 Reviewer: EAH Date: 01/13/16

X=A: Instrument response = a0 + amount \* a1 + amount^2 \* a2 (invert equation before quantitating); X=R: Instrument amount = a0 + response \* a1 + response^2 \* a2; AVRG=Average response factor; QUAD=Quadratic regression

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 274127 PEST Soil  
EPA 8081A

Inst : GC21  
Calnum : 246006285001

Name : GC21\_pest\_004  
Cal Date : 04-JAN-2016

ICV 246006285019 (004\_019 04-JAN-2016) stds: S28247

Analyte	Ch	Spiked	Quant	Units	%D	Max	Flags
alpha-BHC	A	20.00	20.35	pg/uL	2	15	
gamma-BHC	A	20.00	19.93	pg/uL	0	15	
beta-BHC	A	20.00	18.39	pg/uL	-8	15	
delta-BHC	A	20.00	20.41	pg/uL	2	15	
Heptachlor	A	20.00	19.95	pg/uL	0	15	
Aldrin	A	20.00	20.46	pg/uL	2	15	
Heptachlor epoxide	A	20.00	19.86	pg/uL	-1	15	
gamma-Chlordane	A	20.00	19.82	pg/uL	-1	15	
alpha-Chlordane	A	20.00	19.69	pg/uL	-2	15	
4,4'-DDE	A	20.00	21.54	pg/uL	8	15	
Endosulfan I	A	20.00	19.44	pg/uL	-3	15	
Dieldrin	A	20.00	21.32	pg/uL	7	15	
Endrin	A	20.00	20.22	pg/uL	1	15	
4,4'-DDD	A	20.00	21.07	pg/uL	5	15	
Endosulfan II	A	20.00	20.90	pg/uL	4	15	
4,4'-DDT	A	20.00	20.89	pg/uL	4	15	
Endrin aldehyde	A	20.00	21.19	pg/uL	6	15	
Methoxychlor	A	200.0	189.9	pg/uL	-5	15	
Endosulfan sulfate	A	20.00	20.78	pg/uL	4	15	
alpha-BHC	B	20.00	23.42	pg/uL	<b>17</b>	15	v+
gamma-BHC	B	20.00	23.51	pg/uL	<b>18</b>	15	v+
beta-BHC	B	20.00	17.35	pg/uL	-13	15	
delta-BHC	B	20.00	21.29	pg/uL	6	15	
Heptachlor	B	20.00	19.81	pg/uL	-1	15	
Aldrin	B	20.00	23.86	pg/uL	<b>19</b>	15	v+
Heptachlor epoxide	B	20.00	24.56	pg/uL	<b>23</b>	15	v+
gamma-Chlordane	B	20.00	19.74	pg/uL	-1	15	
alpha-Chlordane	B	20.00	19.74	pg/uL	-1	15	
4,4'-DDE	B	20.00	19.07	pg/uL	-5	15	
Endosulfan I	B	20.00	18.78	pg/uL	-6	15	
Dieldrin	B	20.00	24.49	pg/uL	<b>22</b>	15	v+
Endrin	B	20.00	18.32	pg/uL	-8	15	
4,4'-DDD	B	20.00	17.32	pg/uL	-13	15	
Endosulfan II	B	20.00	18.24	pg/uL	-9	15	
4,4'-DDT	B	20.00	18.11	pg/uL	-9	15	
Endrin aldehyde	B	20.00	18.02	pg/uL	-10	15	
Methoxychlor	B	200.0	184.8	pg/uL	-8	15	
Endosulfan sulfate	B	20.00	22.89	pg/uL	14	15	
Average EPA 8081A	A	n=21			4	15	
Average EPA 8081A	B	n=21			11	15	

Analyst: JCD

Date: 01/13/16

Reviewer: EAH

Date: 01/13/16

+=high bias v=ICV

CURTIS & TOMPKINS PERFORMANCE EVALUATION FOR 274127 PEST Soil  
EPA 8081A

Inst : GC21                      Run Name : PEM                      IDF : 1.0  
Seqnum : 246006285003          File : 004\_003                      Time : 04-JAN-2016 09:28

Standards: S27997

Analyte	Ch	Area	% Breakdown	Limit	Flags
4,4'-DDT	A	1128175	2	15	
4,4'-DDE	A	6235			
4,4'-DDD	A	17687			
Endrin	A	545480	11	15	
Endrin aldehyde	A	36280			
Endrin ketone	A	31701			
4,4'-DDT	B	372675	2	15	
4,4'-DDE	B	863			
4,4'-DDD	B	8482			
Endrin	B	228118	10	15	
Endrin aldehyde	B	14439			
Endrin ketone	B	12065			

Analyst: JCD                      Date: 01/12/16                      Reviewer: EAH                      Date: 01/13/16

CURTIS & TOMPKINS PERFORMANCE EVALUATION FOR 274127 PEST Soil  
EPA 8081A

Inst : GC21                      Run Name : PEM                      IDF : 1.0  
Seqnum : 246068181024          File : 047\_024                      Time : 16-FEB-2016 20:47

Standards: S27997

Analyte	Ch	Area	% Breakdown	Limit	Flags
4,4'-DDT	A	1007833	2	15	
4,4'-DDE	A	3274			
4,4'-DDD	A	19374			
Endrin	A	516673	15	15	
Endrin aldehyde	A	40891			
Endrin ketone	A	53242			
4,4'-DDT	B	328202	1	15	
4,4'-DDE	B	881			
4,4'-DDD	B	2655			
Endrin	B	218118	2	15	
Endrin aldehyde	B	1074			
Endrin ketone	B	2659			

Analyst: BJP                      Date: 02/17/16                      Reviewer: EAH                      Date: 02/18/16

CURTIS & TOMPKINS PERFORMANCE EVALUATION FOR 274127 PEST Soil  
EPA 8081A

Inst : GC21                      Run Name : PEM                      IDF : 1.0  
Seqnum : 246068181037          File : 047\_037                      Time : 17-FEB-2016 01:32

Standards: S27997

Analyte	Ch	Area	% Breakdown	Limit	Flags
4,4'-DDT	A	1029881	3	15	
4,4'-DDE	A	2009			
4,4'-DDD	A	34443			
Endrin	A	613686	8	15	
Endrin aldehyde	A	16971			
Endrin ketone	A	33686			
4,4'-DDT	B	317393	3	15	
4,4'-DDE	B	620			
4,4'-DDD	B	8891			
Endrin	B	215912	2	15	
Endrin aldehyde	B	2175			
Endrin ketone	B	3116			

Analyst: JCD                      Date: 02/17/16                      Reviewer: EAH                      Date: 02/18/16

CURTIS & TOMPKINS PERFORMANCE EVALUATION FOR 274127 PEST Soil  
EPA 8081A

Inst : GC21                                      Run Name : PEM                                      IDF : 1.0  
Seqnum : 246068181042.1                      File : 047\_042                                      Time : 17-FEB-2016 03:21

Standards: S27997

Analyte	Ch	Area	% Breakdown	Limit	Flags
4,4'-DDT	A	981486	4	15	
4,4'-DDE	A	2520			
4,4'-DDD	A	40180			
Endrin	A	560477	11	15	
Endrin aldehyde	A	29278			
Endrin ketone	A	43176			
4,4'-DDT	B	291538	2	15	
4,4'-DDE	B	896			
4,4'-DDD	B	5344			
Endrin	B	187200	3	15	
Endrin aldehyde	B	2272			
Endrin ketone	B	3822			

Analyst: BJP                                      Date: 02/17/16                                      Reviewer: EAH                                      Date: 02/17/16

CURTIS & TOMPKINS PERFORMANCE EVALUATION FOR 274127 PEST Soil  
EPA 8081A

Inst : GC21                      Run Name : PEM                      IDF : 1.0  
Seqnum : 246068181053          File : 047\_053                      Time : 17-FEB-2016 07:22

Standards: S27997

Analyte	Ch	Area	% Breakdown	Limit	Flags
4,4'-DDT	A	991190	6	15	
4,4'-DDE	A	2053			
4,4'-DDD	A	59162			
Endrin	A	607488	8	15	
Endrin aldehyde	A	17668			
Endrin ketone	A	35765			
4,4'-DDT	B	335275	3	15	
4,4'-DDE	B	555			
4,4'-DDD	B	11350			
Endrin	B	232117	2	15	
Endrin aldehyde	B	1941			
Endrin ketone	B	3524			

Analyst: BJP                      Date: 02/17/16                      Reviewer: EAH                      Date: 02/17/16



CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 274127 PEST Soil  
EPA 8081A

Inst : GC21  
Seqnum : 246068181022  
Cal : 246006285001  
Standards: S29136

Run Name : ISOPEST\_3  
File : 047\_022  
Caldate : 04-JAN-2016

IDF : 1.0  
Time : 16-FEB-2016 20:04

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
alpha-BHC	A	25156	23792	10.00	9.458	pg/uL	-5	15	
gamma-BHC	A	22784	21492	10.00	9.433	pg/uL	-6	15	
beta-BHC	A	9586.0	8660.3	10.00	9.034	pg/uL	-10	15	
delta-BHC	A	22432	21405	10.00	9.542	pg/uL	-5	15	
Heptachlor	A	20546	19875	10.00	9.674	pg/uL	-3	15	
Aldrin	A	19523	19236	10.00	9.853	pg/uL	-1	15	
Heptachlor epoxide	A	17815	16849	10.00	9.458	pg/uL	-5	15	
gamma-Chlordane	A	17785	17045	10.00	9.584	pg/uL	-4	15	
alpha-Chlordane	A	16915	16205	10.00	9.580	pg/uL	-4	15	
4,4'-DDE	A	15713	16517	20.00	21.02	pg/uL	5	15	
Endosulfan I	A	16186	15600	10.00	9.638	pg/uL	-4	15	
Dieldrin	A	15772	16933	20.00	21.47	pg/uL	7	15	
Endrin	A	10828	11084	20.00	20.47	pg/uL	2	15	
4,4'-DDD	A	12285	13324	20.00	21.69	pg/uL	8	15	
Endosulfan II	A	12945	13763	20.00	21.26	pg/uL	6	15	
4,4'-DDT	A	12750	13769	20.00	21.60	pg/uL	8	15	
Endrin aldehyde	A	10220	11151	20.00	21.82	pg/uL	9	15	
Methoxychlor	A	4991.1	5625.6	100.0	112.7	pg/uL	13	15	
Endosulfan sulfate	A	11610	12004	20.00	20.68	pg/uL	3	15	
TCMX	A	15933	15202	20.00	19.08	pg/uL	-5	15	
Decachlorobiphenyl	A	10679	10752	20.00	20.14	pg/uL	1	15	
alpha-BHC	B	6935.9	6126.3	10.00	8.833	pg/uL	-12	15	v+
gamma-BHC	B	6538.1	5492.0	10.00	8.400	pg/uL	-16	15	c- v+ ***
beta-BHC	B	2347.6	1548.4	10.00	8.039	pg/uL	-20	15	c- ***
delta-BHC	B	5292.8	5237.8	10.00	8.786	pg/uL	-12	15	
Heptachlor	B	6927.5	5824.2	10.00	7.577	pg/uL	-24	15	c- ***
Aldrin	B	6217.0	5288.8	10.00	8.507	pg/uL	-15	15	v+
Heptachlor epoxide	B	5347.3	4504.6	10.00	8.424	pg/uL	-16	15	c- v+ ***
gamma-Chlordane	B	5684.0	4736.5	10.00	7.459	pg/uL	-25	15	c- ***
alpha-Chlordane	B	5344.6	4315.4	10.00	7.301	pg/uL	-27	15	c- ***
4,4'-DDE	B	4807.7	4856.8	20.00	16.57	pg/uL	-17	15	c- ***
Endosulfan I	B	5287.0	3971.7	10.00	7.011	pg/uL	-30	15	c- ***
Dieldrin	B	5546.6	5837.6	20.00	21.05	pg/uL	5	15	v+
Endrin	B	3981.1	4483.9	20.00	18.31	pg/uL	-8	15	
4,4'-DDD	B	3835.5	3744.6	20.00	16.08	pg/uL	-20	15	c- ***
Endosulfan II	B	4656.3	4512.8	20.00	15.73	pg/uL	-21	15	c- ***
4,4'-DDT	B	4332.2	4396.3	20.00	16.03	pg/uL	-20	15	c- ***
Endrin aldehyde	B	3600.2	3017.4	20.00	13.95	pg/uL	-30	15	c- ***
Methoxychlor	B	1491.9	1607.4	100.0	93.44	pg/uL	-7	15	
Endosulfan sulfate	B	3672.7	3326.3	20.00	18.11	pg/uL	-9	15	
TCMX	B	3308.3	3215.0	20.00	17.40	pg/uL	-13	15	
Decachlorobiphenyl	B	2751.9	2191.0	20.00	15.92	pg/uL	-20	15	c-
Average EPA 8081A	A	(n=23)					6	15	
Average EPA 8081A	B	(n=23)					18	15	ac ***

BJP 02/17/16 : Corrected automatically drawn baseline for all channels.

BJP 02/17/16 : Separated from coeluting peak for Ch. A.

Analyst: BJP Date: 02/17/16 Reviewer: EAH Date: 02/18/16

+=high bias -=low bias ac=average CCV drift out c=CCV v=ICV

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 274127 PEST Soil  
EPA 8081A

Inst : GC21 Run Name : ISOPEST\_3 IDF : 1.0  
 Seqnum : 246068181023 File : 047\_023 Time : 16-FEB-2016 20:26  
 Cal : 246006285001 Caldate : 04-JAN-2016  
 Standards: S29136

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
alpha-BHC	A	25156	23679	10.00	9.413	pg/uL	-6	15	
gamma-BHC	A	22784	21517	10.00	9.444	pg/uL	-6	15	
beta-BHC	A	9586.0	8452.5	10.00	8.818	pg/uL	-12	15	
delta-BHC	A	22432	21023	10.00	9.372	pg/uL	-6	15	
Heptachlor	A	20546	19777	10.00	9.626	pg/uL	-4	15	
Aldrin	A	19523	19156	10.00	9.812	pg/uL	-2	15	
Heptachlor epoxide	A	17815	16852	10.00	9.459	pg/uL	-5	15	
gamma-Chlordane	A	17785	17053	10.00	9.588	pg/uL	-4	15	
alpha-Chlordane	A	16915	16185	10.00	9.568	pg/uL	-4	15	
4,4'-DDE	A	15713	16488	20.00	20.99	pg/uL	5	15	
Endosulfan I	A	16186	15519	10.00	9.588	pg/uL	-4	15	
Dieldrin	A	15772	16835	20.00	21.35	pg/uL	7	15	
Endrin	A	10828	10149	20.00	18.75	pg/uL	-6	15	
4,4'-DDD	A	12285	13194	20.00	21.48	pg/uL	7	15	
Endosulfan II	A	12945	13343	20.00	20.61	pg/uL	3	15	
4,4'-DDT	A	12750	13368	20.00	20.97	pg/uL	5	15	
Endrin aldehyde	A	10220	11053	20.00	21.63	pg/uL	8	15	
Methoxychlor	A	4991.1	5548.1	100.0	111.2	pg/uL	11	15	
Endosulfan sulfate	A	11610	11949	20.00	20.58	pg/uL	3	15	
TCMX	A	15933	15230	20.00	19.12	pg/uL	-4	15	
Decachlorobiphenyl	A	10679	10695	20.00	20.03	pg/uL	0	15	
alpha-BHC	B	6935.9	4976.1	10.00	7.174	pg/uL	-28	15	c- v+ ***
gamma-BHC	B	6538.1	4469.4	10.00	6.836	pg/uL	-32	15	c- v+ ***
beta-BHC	B	2347.6	1399.3	10.00	7.538	pg/uL	-25	15	c- ***
delta-BHC	B	5292.8	3822.5	10.00	7.024	pg/uL	-30	15	c- ***
Heptachlor	B	6927.5	4510.7	10.00	6.167	pg/uL	-38	15	c- ***
Aldrin	B	6217.0	4201.6	10.00	6.758	pg/uL	-32	15	c- v+ ***
Heptachlor epoxide	B	5347.3	3566.7	10.00	6.670	pg/uL	-33	15	c- v+ ***
gamma-Chlordane	B	5684.0	3650.0	10.00	6.068	pg/uL	-39	15	c- ***
alpha-Chlordane	B	5344.6	3471.7	10.00	6.184	pg/uL	-38	15	c- ***
4,4'-DDE	B	4807.7	3463.2	20.00	12.28	pg/uL	-39	15	c- ***
Endosulfan I	B	5287.0	3259.4	10.00	6.053	pg/uL	-39	15	c- ***
Dieldrin	B	5546.6	4518.4	20.00	16.29	pg/uL	-19	15	c- v+ ***
Endrin	B	3981.1	3184.4	20.00	13.37	pg/uL	-33	15	c- ***
4,4'-DDD	B	3835.5	2475.7	20.00	11.33	pg/uL	-43	15	c- ***
Endosulfan II	B	4656.3	3105.0	20.00	11.26	pg/uL	-44	15	c- ***
4,4'-DDT	B	4332.2	3022.6	20.00	11.59	pg/uL	-42	15	c- ***
Endrin aldehyde	B	3600.2	1997.0	20.00	10.04	pg/uL	-50	15	c- ***
Methoxychlor	B	1491.9	1217.7	100.0	69.09	pg/uL	-31	15	c- ***
Endosulfan sulfate	B	3672.7	2279.3	20.00	12.41	pg/uL	-38	15	c- ***
TCMX	B	3308.3	2436.8	20.00	13.80	pg/uL	-31	15	c-
Decachlorobiphenyl	B	2751.9	1493.1	20.00	10.85	pg/uL	-46	15	c-
Average EPA 8081A	A	(n=23)					6	15	
Average EPA 8081A	B	(n=23)					36	15	ac ***

BJP 02/17/16 : Corrected automatically drawn baseline for all channels.

Analyst: BJP Date: 02/17/16 Reviewer: EAH Date: 02/18/16

+=high bias -=low bias ac=average CCV drift out c=CCV v=ICV

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 274127 PEST Soil  
EPA 8081A

Inst : GC21  
Seqnum : 246068181038  
Cal : 246006285001  
Standards: S29136

Run Name : ISOPEST\_3  
File : 047\_038  
Caldate : 04-JAN-2016

IDF : 1.0  
Time : 17-FEB-2016 01:54

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
alpha-BHC	A	25156	24693	10.00	9.816	pg/uL	-2	15	
gamma-BHC	A	22784	22394	10.00	9.829	pg/uL	-2	15	
beta-BHC	A	9586.0	8931.9	10.00	9.318	pg/uL	-7	15	
delta-BHC	A	22432	22043	10.00	9.827	pg/uL	-2	15	
Heptachlor	A	20546	21011	10.00	10.23	pg/uL	2	15	
Aldrin	A	19523	20089	10.00	10.29	pg/uL	3	15	
Heptachlor epoxide	A	17815	17797	10.00	9.990	pg/uL	0	15	
gamma-Chlordane	A	17785	18157	10.00	10.21	pg/uL	2	15	
alpha-Chlordane	A	16915	17270	10.00	10.21	pg/uL	2	15	
4,4'-DDE	A	15713	17557	20.00	22.35	pg/uL	12	15	
Endosulfan I	A	16186	16488	10.00	10.19	pg/uL	2	15	
Dieldrin	A	15772	18058	20.00	22.90	pg/uL	14	15	
Endrin	A	10828	13146	20.00	24.28	pg/uL	21	15	c+ ***
4,4'-DDD	A	12285	14539	20.00	23.67	pg/uL	18	15	c+ ***
Endosulfan II	A	12945	14575	20.00	22.52	pg/uL	13	15	
4,4'-DDT	A	12750	14374	20.00	22.55	pg/uL	13	15	
Endrin aldehyde	A	10220	11493	20.00	22.49	pg/uL	12	15	
Methoxychlor	A	4991.1	6051.1	100.0	121.2	pg/uL	21	15	c+ ***
Endosulfan sulfate	A	11610	12841	20.00	22.12	pg/uL	11	15	
TCMX	A	15933	14765	20.00	18.53	pg/uL	-7	15	
Decachlorobiphenyl	A	10679	11618	20.00	21.76	pg/uL	9	15	
alpha-BHC	B	6935.9	5847.6	10.00	8.431	pg/uL	-16	15	c- v+ ***
gamma-BHC	B	6538.1	5489.5	10.00	8.396	pg/uL	-16	15	c- v+ ***
beta-BHC	B	2347.6	1686.3	10.00	8.502	pg/uL	-15	15	
delta-BHC	B	5292.8	5044.6	10.00	8.544	pg/uL	-15	15	
Heptachlor	B	6927.5	5483.0	10.00	7.209	pg/uL	-28	15	c- ***
Aldrin	B	6217.0	5136.5	10.00	8.262	pg/uL	-17	15	c- v+ ***
Heptachlor epoxide	B	5347.3	4366.6	10.00	8.166	pg/uL	-18	15	c- v+ ***
gamma-Chlordane	B	5684.0	4507.1	10.00	7.164	pg/uL	-28	15	c- ***
alpha-Chlordane	B	5344.6	4317.0	10.00	7.304	pg/uL	-27	15	c- ***
4,4'-DDE	B	4807.7	4839.5	20.00	16.51	pg/uL	-17	15	c- ***
Endosulfan I	B	5287.0	4079.4	10.00	7.157	pg/uL	-28	15	c- ***
Dieldrin	B	5546.6	5568.4	20.00	20.08	pg/uL	0	15	v+
Endrin	B	3981.1	4241.8	20.00	17.37	pg/uL	-13	15	
4,4'-DDD	B	3835.5	3895.7	20.00	16.65	pg/uL	-17	15	c- ***
Endosulfan II	B	4656.3	4330.8	20.00	15.14	pg/uL	-24	15	c- ***
4,4'-DDT	B	4332.2	4191.5	20.00	15.36	pg/uL	-23	15	c- ***
Endrin aldehyde	B	3600.2	2977.2	20.00	13.79	pg/uL	-31	15	c- ***
Methoxychlor	B	1491.9	1627.7	100.0	94.77	pg/uL	-5	15	
Endosulfan sulfate	B	3672.7	3249.9	20.00	17.70	pg/uL	-12	15	
TCMX	B	3308.3	2978.6	20.00	16.31	pg/uL	-18	15	c-
Decachlorobiphenyl	B	2751.9	2112.4	20.00	15.35	pg/uL	-23	15	c-
Average EPA 8081A	A	(n=23)					9	15	
Average EPA 8081A	B	(n=23)					19	15	ac ***

JCD 02/17/16 : Corrected automatically drawn baseline for all channels.

JCD 02/17/16 : Separated from coeluting peak for all channels.

JCD: 02/17/16 \* BJP: 02/17/16 EAH: 02/23/16

+=high bias -=low bias ac=average CCV drift out c=CCV v=ICV

Page 2 of 2

246068181038

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 274127 PEST Soil  
EPA 8081A

Inst : GC21  
Seqnum : 246068181039  
Cal : 246006285001  
Standards: S29136

Run Name : ISOPEST\_3  
File : 047\_039  
Caldate : 04-JAN-2016

IDF : 1.0  
Time : 17-FEB-2016 02:16

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
alpha-BHC	A	25156	24434	10.00	9.713	pg/uL	-3	15	
gamma-BHC	A	22784	22266	10.00	9.772	pg/uL	-2	15	
beta-BHC	A	9586.0	8908.0	10.00	9.293	pg/uL	-7	15	
delta-BHC	A	22432	21978	10.00	9.798	pg/uL	-2	15	
Heptachlor	A	20546	20681	10.00	10.07	pg/uL	1	15	
Aldrin	A	19523	19910	10.00	10.20	pg/uL	2	15	
Heptachlor epoxide	A	17815	17632	10.00	9.897	pg/uL	-1	15	
gamma-Chlordane	A	17785	17953	10.00	10.09	pg/uL	1	15	
alpha-Chlordane	A	16915	17083	10.00	10.10	pg/uL	1	15	
4,4'-DDE	A	15713	17450	20.00	22.21	pg/uL	11	15	
Endosulfan I	A	16186	16328	10.00	10.09	pg/uL	1	15	
Dieldrin	A	15772	17835	20.00	22.62	pg/uL	13	15	
Endrin	A	10828	12752	20.00	23.55	pg/uL	18	15	c+ ***
4,4'-DDD	A	12285	14416	20.00	23.47	pg/uL	17	15	c+ ***
Endosulfan II	A	12945	14329	20.00	22.14	pg/uL	11	15	
4,4'-DDT	A	12750	13895	20.00	21.80	pg/uL	9	15	
Endrin aldehyde	A	10220	11080	20.00	21.68	pg/uL	8	15	
Methoxychlor	A	4991.1	5843.8	100.0	117.1	pg/uL	17	15	c+ ***
Endosulfan sulfate	A	11610	12669	20.00	21.83	pg/uL	9	15	
TCMX	A	15933	15665	20.00	19.66	pg/uL	-2	15	
Decachlorobiphenyl	A	10679	11168	20.00	20.92	pg/uL	5	15	
alpha-BHC	B	6935.9	5583.2	10.00	8.050	pg/uL	-20	15	c- v+ ***
gamma-BHC	B	6538.1	5180.1	10.00	7.923	pg/uL	-21	15	c- v+ ***
beta-BHC	B	2347.6	1508.1	10.00	7.904	pg/uL	-21	15	c- ***
delta-BHC	B	5292.8	4867.4	10.00	8.322	pg/uL	-17	15	c- ***
Heptachlor	B	6927.5	5348.0	10.00	7.064	pg/uL	-29	15	c- ***
Aldrin	B	6217.0	5049.8	10.00	8.123	pg/uL	-19	15	c- v+ ***
Heptachlor epoxide	B	5347.3	4296.6	10.00	8.035	pg/uL	-20	15	c- v+ ***
gamma-Chlordane	B	5684.0	4482.6	10.00	7.132	pg/uL	-29	15	c- ***
alpha-Chlordane	B	5344.6	4224.7	10.00	7.181	pg/uL	-28	15	c- ***
4,4'-DDE	B	4807.7	4704.7	20.00	16.09	pg/uL	-20	15	c- ***
Endosulfan I	B	5287.0	4040.3	10.00	7.104	pg/uL	-29	15	c- ***
Dieldrin	B	5546.6	5520.2	20.00	19.90	pg/uL	0	15	v+
Endrin	B	3981.1	3996.4	20.00	16.43	pg/uL	-18	15	c- ***
4,4'-DDD	B	3835.5	3594.0	20.00	15.51	pg/uL	-22	15	c- ***
Endosulfan II	B	4656.3	4095.9	20.00	14.39	pg/uL	-28	15	c- ***
4,4'-DDT	B	4332.2	4074.7	20.00	14.98	pg/uL	-25	15	c- ***
Endrin aldehyde	B	3600.2	2702.2	20.00	12.73	pg/uL	-36	15	c- ***
Methoxychlor	B	1491.9	1533.1	100.0	88.60	pg/uL	-11	15	
Endosulfan sulfate	B	3672.7	3027.9	20.00	16.49	pg/uL	-18	15	c- ***
TCMX	B	3308.3	2961.1	20.00	16.22	pg/uL	-19	15	c-
Decachlorobiphenyl	B	2751.9	1871.3	20.00	13.60	pg/uL	-32	15	c-
Average EPA 8081A	A	(n=23)					7	15	
Average EPA 8081A	B	(n=23)					22	15	ac ***

BJP 02/18/16 : Corrected automatically drawn baseline for all channels.

BJP 02/18/16 : Separated from coeluting peak for all channels.

Analyst: BJP Date: 02/18/16 Reviewer: EAH Date: 02/19/16

+=high bias -=low bias ac=average CCV drift out c=CCV v=ICV



CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 274127 PEST Soil  
EPA 8081A

Inst : GC21  
Seqnum : 246068181054  
Cal : 246006285001  
Standards: S29136

Run Name : ISOPEST\_3  
File : 047\_054  
Caldate : 04-JAN-2016

IDF : 1.0  
Time : 17-FEB-2016 07:44

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
alpha-BHC	A	25156	24669	10.00	9.806	pg/uL	-2	15	
gamma-BHC	A	22784	22591	10.00	9.915	pg/uL	-1	15	
beta-BHC	A	9586.0	8985.3	10.00	9.373	pg/uL	-6	15	
delta-BHC	A	22432	22244	10.00	9.916	pg/uL	-1	15	
Heptachlor	A	20546	20910	10.00	10.18	pg/uL	2	15	
Aldrin	A	19523	20318	10.00	10.41	pg/uL	4	15	
Heptachlor epoxide	A	17815	17943	10.00	10.07	pg/uL	1	15	
gamma-Chlordane	A	17785	18274	10.00	10.27	pg/uL	3	15	
alpha-Chlordane	A	16915	17361	10.00	10.26	pg/uL	3	15	
4,4'-DDE	A	15713	17863	20.00	22.74	pg/uL	14	15	
Endosulfan I	A	16186	16693	10.00	10.31	pg/uL	3	15	
Dieldrin	A	15772	18225	20.00	23.11	pg/uL	16	15	c+ ***
Endrin	A	10828	13623	20.00	25.16	pg/uL	26	15	c+ ***
4,4'-DDD	A	12285	14754	20.00	24.02	pg/uL	20	15	c+ ***
Endosulfan II	A	12945	14621	20.00	22.59	pg/uL	13	15	
4,4'-DDT	A	12750	14170	20.00	22.23	pg/uL	11	15	
Endrin aldehyde	A	10220	11389	20.00	22.29	pg/uL	11	15	
Methoxychlor	A	4991.1	5920.7	100.0	118.6	pg/uL	19	15	c+ ***
Endosulfan sulfate	A	11610	13045	20.00	22.47	pg/uL	12	15	
TCMX	A	15933	15856	20.00	19.90	pg/uL	0	15	
Decachlorobiphenyl	A	10679	11666	20.00	21.85	pg/uL	9	15	
alpha-BHC	B	6935.9	7977.0	10.00	11.50	pg/uL	15	15	v+
gamma-BHC	B	6538.1	7307.3	10.00	11.18	pg/uL	12	15	v+
beta-BHC	B	2347.6	2045.2	10.00	9.705	pg/uL	-3	15	
delta-BHC	B	5292.8	7357.3	10.00	11.48	pg/uL	15	15	
Heptachlor	B	6927.5	7581.9	10.00	9.493	pg/uL	-5	15	
Aldrin	B	6217.0	6938.4	10.00	11.16	pg/uL	12	15	v+
Heptachlor epoxide	B	5347.3	5866.5	10.00	10.97	pg/uL	10	15	v+
gamma-Chlordane	B	5684.0	6250.6	10.00	9.431	pg/uL	-6	15	
alpha-Chlordane	B	5344.6	5775.0	10.00	9.264	pg/uL	-7	15	
4,4'-DDE	B	4807.7	6519.3	20.00	21.89	pg/uL	9	15	
Endosulfan I	B	5287.0	5429.4	10.00	9.000	pg/uL	-10	15	
Dieldrin	B	5546.6	7180.2	20.00	25.89	pg/uL	29	15	c+ v+ ***
Endrin	B	3981.1	5754.8	20.00	23.36	pg/uL	17	15	c+ ***
4,4'-DDD	B	3835.5	5419.2	20.00	22.61	pg/uL	13	15	
Endosulfan II	B	4656.3	5875.1	20.00	20.25	pg/uL	1	15	
4,4'-DDT	B	4332.2	5696.5	20.00	20.42	pg/uL	2	15	
Endrin aldehyde	B	3600.2	4245.2	20.00	18.82	pg/uL	-6	15	
Methoxychlor	B	1491.9	1985.7	100.0	119.7	pg/uL	20	15	c+ ***
Endosulfan sulfate	B	3672.7	4514.5	20.00	24.58	pg/uL	23	15	c+ ***
TCMX	B	3308.3	4148.5	20.00	21.73	pg/uL	9	15	
Decachlorobiphenyl	B	2751.9	3052.2	20.00	22.18	pg/uL	11	15	
Average EPA 8081A	A	(n=23)					9	15	
Average EPA 8081A	B	(n=23)					10	15	

BJP 02/17/16 : Corrected automatically drawn baseline for all channels.

BJP 02/17/16 : Separated from coeluting peak for all channels.

Analyst: BJP

Date: 02/17/16

Reviewer: EAH

Date: 02/19/16

+=high bias c=CCV v=ICV

## **Logbooks & Sequences**

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 246006285

Instrument : GC21  
 Method : EPA 8081A

Begun : 01/04/16 08:45  
 SOP Version : pesticides\_rv17

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	004_001	X	PRIMER			01/04/16 08:45	1.0		
002	004_002	X	HEX			01/04/16 09:06	1.0		
003	004_003	PEM	PEM			01/04/16 09:28	1.0	1	
004	004_004	CCV	ISOPEST_3			01/04/16 09:50	1.0	2	ac arsd
005	004_005	X	HEX			01/04/16 13:38	1.0		
006	004_006	X	IB			01/04/16 14:00	1.0		
007	004_007	IB	CALIB			01/04/16 14:22	1.0		
008	004_008	ICAL	ISOPEST_1/2			01/04/16 14:44	1.0	3	
009	004_009	ICAL	ISOPEST_1			01/04/16 15:05	1.0	4	
010	004_010	ICAL	ISOPEST_2			01/04/16 15:27	1.0	5	
011	004_011	ICAL	ISOPEST_3			01/04/16 15:49	1.0	6	
012	004_012	ICAL	ISOPEST_4			01/04/16 16:11	1.0	7	
013	004_013	ICAL	ISOPEST_5			01/04/16 16:33	1.0	8	
014	004_014	ICAL	ISOPEST_6			01/04/16 16:55	1.0	9	
015	004_015	ICAL	ISOPEST_7			01/04/16 17:17	1.0	10	
016	004_016	X	HEX			01/04/16 17:39	1.0		
017	004_017	ICV	PEST_ICV			01/04/16 18:00	1.0	11	
018	004_018	X	HEX			01/04/16 18:22	1.0		
019	004_019	ICV	PEST_ICV			01/04/16 18:44	1.0	11	
020	004_020	X	HEX			01/04/16 19:06	1.0		

JCD 01/12/16 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 20.

Standards used: 1=S27997 2=S28631 3=S28519 4=S28520 5=S28521 6=S28402 7=S28522 8=S28523 9=S28524 10=S28525 11=S28247

Flags used: ac=average CCV drift out arsd=average ICAL %RSD out

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 246068181

Instrument : GC21  
 Method : EPA 8081A

Begun : 02/16/16 08:21  
 SOP Version : pesticides\_rv17

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	047_001	X	HEX			02/16/16 08:21	1.0		
002	047_002	PEM	PEM			02/16/16 08:43	1.0	1	
003	047_003	CCV	ISOPEST_3			02/16/16 09:05	1.0	2	ac
004	047_004	SAMPLE	274021-001	Soil	231962	02/16/16 10:14	20.0		<ac
005	047_005	PEM	PEM			02/16/16 10:36	1.0	1	
006	047_006	CCV	ISOPEST_3			02/16/16 10:58	1.0	2	
007	047_007	MSS	274131-003	Soil	232077	02/16/16 12:14	1.0		>ac
008	047_008	PEM	PEM			02/16/16 12:36	1.0	1	
009	047_009	CCV	ISOPEST_3			02/16/16 12:58	1.0	2	ac
010	047_010	SAMPLE	274103-005	Soil	232077	02/16/16 13:28	10.0		>ac <ac
011	047_011	BLANK	QC823375	Water	232088	02/16/16 13:50	1.0		>ac <ac
012	047_012	BS	QC823376	Water	232088	02/16/16 14:12	1.0		>ac <ac
013	047_013	BSD	QC823377	Water	232088	02/16/16 14:34	1.0		>ac <ac
014	047_014	PEM	PEM			02/16/16 14:56	1.0	1	
015	047_015	CCV	ISOPEST_3			02/16/16 15:18	1.0	2	ac
016	047_016	SAMPLE	274177-001	Water	232088	02/16/16 15:44	1.0		<ac >ac
017	047_017	SAMPLE	274177-002	Water	232088	02/16/16 16:06	1.0		<ac >ac
018	047_018	PEM	PEM			02/16/16 16:28	1.0	1	
019	047_019	CCV	ISOPEST_3			02/16/16 16:50	1.0	2	ac
020	047_020	X	HEX			02/16/16 19:20	1.0		
021	047_021	PEM	PEM			02/16/16 19:42	1.0	1	
022	047_022	CCV	ISOPEST_3			02/16/16 20:04	1.0	3	ac
023	047_023	CCV	ISOPEST_3			02/16/16 20:26	1.0	3	ac
024	047_024	PEM	PEM			02/16/16 20:47	1.0	1	
025	047_025	BLANK	QC823330	Soil	232077	02/16/16 21:09	1.0		<ac >ac
026	047_026	LCS	QC823331	Soil	232077	02/16/16 21:31	1.0		<ac >ac
027	047_027	MS	QC823332	Soil	232077	02/16/16 21:53	1.0		<ac >ac
028	047_028	MSD	QC823333	Soil	232077	02/16/16 22:15	1.0		<ac >ac
029	047_029	SAMPLE	274068-005	Soil	232077	02/16/16 22:37	1.0		<ac >ac
030	047_030	SAMPLE	274069-005	Soil	232077	02/16/16 22:59	1.0		<ac >ac
031	047_031	SAMPLE	274070-005	Soil	232077	02/16/16 23:21	1.0		<ac >ac
032	047_032	SAMPLE	274127-005	Soil	232077	02/16/16 23:43	10.0		sh <ac >ac
033	047_033	SAMPLE	274127-008	Soil	232077	02/17/16 00:05	20.0		sh <ac >ac
034	047_034	SAMPLE	274127-012	Soil	232077	02/17/16 00:27	2.0		sh <ac >ac
035	047_035	SAMPLE	274127-016	Soil	232077	02/17/16 00:48	5.0		sh <ac >ac
036	047_036	SAMPLE	274127-024	Soil	232077	02/17/16 01:10	1.0		sh <ac >ac
037	047_037	PEM	PEM			02/17/16 01:32	1.0	1	
038	047_038	CCV	ISOPEST_3			02/17/16 01:54	1.0	3	ac
039	047_039	CCV	ISOPEST_3			02/17/16 02:16	1.0	3	ac
040	047_040	CCV	CHLOR_150			02/17/16 02:38	1.0	4	
041	047_041	CCV	CHLOR_150			02/17/16 03:00	1.0	4	
042	047_042	PEM	PEM			02/17/16 03:21	1.0	1	
043	047_043	SAMPLE	274176-001	Water	232088	02/17/16 03:43	1.0		
044	047_044	SAMPLE	274127-032	Soil	232077	02/17/16 04:05	20.0		sh <ac
045	047_045	SAMPLE	274127-040	Soil	232077	02/17/16 04:27	10.0		sh <ac
046	047_046	SAMPLE	274131-001	Soil	232077	02/17/16 04:49	2.0		<ac , 1:ACHLORDANE=120
047	047_047	SAMPLE	274131-002	Soil	232077	02/17/16 05:11	1.0		<ac
048	047_048	SAMPLE	274131-004	Soil	232077	02/17/16 05:33	10.0		<ac
049	047_049	SAMPLE	274131-005	Soil	232077	02/17/16 05:55	10.0		<ac
050	047_050	SAMPLE	274131-006	Soil	232077	02/17/16 06:16	10.0		<ac
051	047_051	SAMPLE	274131-007	Soil	232077	02/17/16 06:38	20.0		<ac
052	047_052	SAMPLE	274131-008	Soil	232077	02/17/16 07:00	1.0		<ac

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 246068181

Instrument : GC21 Begun : 02/16/16 08:21  
 Method : EPA 8081A SOP Version : pesticides\_rv17

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
053	047_053	PEM	PEM			02/17/16 07:22	1.0	1	
054	047_054	CCV	ISOPEST_3			02/17/16 07:44	1.0	3	
055	047_055	CCV	ISOPEST_3			02/17/16 08:06	1.0	3	ac
056	047_056	CCV	CHLOR_150			02/17/16 08:28	1.0	4	
057	047_057	CCV	CHLOR_150			02/17/16 08:50	1.0	4	
058	047_058	PEM	PEM			02/17/16 09:12	1.0	1	

JCD 02/16/16 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 19.

JCD 02/16/16 : maintenance was done after run 019

JCD 02/17/16 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 20 through 58.

Standards used: 1=S27997 2=S28631 3=S29136 4=S28835

Flags used: <=opening >=closing ac=average CCV drift out sh=out of sample hold

SAMPLE PREPARATION SUMMARY

Batch #	: 232077				Analysis	: 8081-LL
Started By	: BOY	Prep Date	: 15-FEB-2016 12:51		Finished By	: BOY
Method	: 3550B				Units	: g
Spike #1 ID	: S28996	Spike #2 ID	: S28974		Spike #3 ID	: S28570

Sample	Stype	Matrix	Initial	Final	Clean DF	Prep DF	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Clean Method	Analysis	Comments
274068-005		Soil	29.73	10	1	0.3364		.8				8081-LL, PCB-LL	
274069-005		Soil	29.72	10	1	0.3365		.8				8081-LL, PCB-LL	
274070-005		Soil	29.74	10	1	0.3362		.8				8081-LL, PCB-LL	
274089-001		Soil	29.66	20	1	0.6743		.8				PCB	
274103-005		Soil	29.76	10	1	0.336		.8				8081-LL	a/o @ 15-FEB-16 17:30
274127-005		Soil	29.62	20	1	0.6752		.8				8081	
274127-008		Soil	29.55	20	1	0.6768		.8				8081	
274127-012		Soil	29.52	20	1	0.6775		.8				8081	
274127-016		Soil	29.92	20	1	0.6684		.8				8081	
274127-024		Soil	29.99	20	1	0.6669		.8				8081	
274127-032		Soil	30.46	20	1	0.6566		.8				8081	
274127-040		Soil	29.83	20	1	0.6705		.8				8081	
274131-001		Soil	29.61	10	1	0.3377		.8				8081-LL	
274131-002		Soil	30.13	10	1	0.3319		.8				8081-LL	
274131-003		Soil	29.78	10	1	0.3358		.8				8081-LL	
274131-004		Soil	29.9	10	1	0.3344		.8				8081-LL	
274131-005		Soil	29.96	10	1	0.3338		.8				8081-LL	
274131-006		Soil	30.31	10	1	0.3299		.8				8081-LL	
274131-007		Soil	29.8	10	1	0.3356		.8				8081-LL	
274131-008		Soil	29.84	10	1	0.3351		.8				8081-LL	
QC823330	BLANK	Soil	30.09	10	1	0.3323		.8				8081-LL	
QC823331	LCS	Soil	29.66	20	1	0.6743		.8		.4		8081-LL	
QC823332	MS	Soil	30.01	10	1	0.3332		.8		.4		8081-LL	
QC823333	MSD	Soil	29.89	10	1	0.3346		.8		.4		8081-LL	
QC823334	LCS	Soil	29.69	20	1	0.6736		.8	1			PCB-LL	
QC823335	MS	Soil	29.67	20	1	0.6741		.8	1			PCB-LL	
QC823336	MSD	Soil	30	20	1	0.6667		.8	1			PCB-LL	

EAH 02/16/16 : Reviewed for pest and checked batch documents for PCB.

Analyst: JCD Date: 02/16/16 Reviewer: EAH Date: 02/17/16

Extraction Method:

Cleanup Method:

EPA 3550b Sonication  
 \_\_\_\_\_

EPA 3620b Florisil

LIMS Batch No: 232077

Date Extracted: 2/16/16

Sample #	Container ID	Sample Wt (g)	Final Vol (mL)	Comments
274068-005	comp	29.73	<input type="checkbox"/> 20.0 <input checked="" type="checkbox"/> 10	rocky; alternate comp of 1-4 @ 20g ea.
274069-005	comp	29.72	<input type="checkbox"/> 20.0 <input checked="" type="checkbox"/> 10	
274070-005	comp	29.74	<input type="checkbox"/> 20.0 <input checked="" type="checkbox"/> 10	
274127-005	B	29.62	<input checked="" type="checkbox"/> 20.0 <input type="checkbox"/> _____	
8		29.55	<input checked="" type="checkbox"/> 20.0 <input type="checkbox"/> _____	
12		29.52	<input checked="" type="checkbox"/> 20.0 <input type="checkbox"/> _____	
16		29.92	<input checked="" type="checkbox"/> 20.0 <input type="checkbox"/> _____	
24		29.99	<input checked="" type="checkbox"/> 20.0 <input type="checkbox"/> _____	
32		30.46	<input checked="" type="checkbox"/> 20.0 <input type="checkbox"/> _____	
40		29.53	<input checked="" type="checkbox"/> 20.0 <input type="checkbox"/> _____	
274131-001	A	29.61	<input type="checkbox"/> 20.0 <input checked="" type="checkbox"/> 10	
2		30.13	<input type="checkbox"/> 20.0 <input checked="" type="checkbox"/> 10	
3		29.78	<input type="checkbox"/> 20.0 <input checked="" type="checkbox"/> 10	mess
4		29.90	<input type="checkbox"/> 20.0 <input checked="" type="checkbox"/> 10	
5		29.96	<input type="checkbox"/> 20.0 <input checked="" type="checkbox"/> 10	rocky
6		30.31	<input type="checkbox"/> 20.0 <input checked="" type="checkbox"/> 10	
7		29.80	<input type="checkbox"/> 20.0 <input checked="" type="checkbox"/> 10	
8		29.84	<input type="checkbox"/> 20.0 <input checked="" type="checkbox"/> 10	
9		29.73	<input type="checkbox"/> 20.0 <input type="checkbox"/> _____	rocky;
MB QC 823320	NA	30.09	<input type="checkbox"/> 20.0 <input checked="" type="checkbox"/> 10	
LCS 1		29.66	<input checked="" type="checkbox"/> 20.0 <input type="checkbox"/> _____	
ms 2		30.01	<input type="checkbox"/> 20.0 <input checked="" type="checkbox"/> 10	30.01 box
msd 3		29.89	<input type="checkbox"/> 20.0 <input checked="" type="checkbox"/> 10	29.89 2/16/16
274103-005	comp	29.70	<input type="checkbox"/> 20.0 <input checked="" type="checkbox"/> 10	1/0 @ 1730 comp of 1-4 @ 25g ea.
			<input type="checkbox"/> 20.0 <input type="checkbox"/> _____	1126 2/16/16

MS/MSD not included due to:  insufficient volume, or  other (reason)

Balance ID: wetchem Has been calibrated?  Yes  No

Solvent-rinsed granular Na<sub>2</sub>SO<sub>4</sub> weighed out for QC samples dried with CH<sub>2</sub>Cl<sub>2</sub>-rinsed  granular Na<sub>2</sub>SO<sub>4</sub>  powder

0.8 mL of surrogate solution was added to all samples

0.4 mL of spike solution was added to all spikes

1:1 CH<sub>2</sub>Cl<sub>2</sub> (lot# EM55232): Acetone (lot# FS19457) was added to all

Solvent added at (time)

sonicated 3 times w/ ≥100mL  Soxhlet extractors on at:

soxhlets off at:

Extracts filtered through baked, CH<sub>2</sub>Cl<sub>2</sub>-rinsed powdered Na<sub>2</sub>SO<sub>4</sub>

Exchanged 2x with Hexane

Concentrated to final volume in boiling H<sub>2</sub>O bath

Florisil Cleanup Performed

Extracts relinquished to Pesticide Group

Mfg & Lot # / LIMS # / Time Initials / Date

EMYA1961				BDT 2/15/16
EM2535C502				
528996D				
528570C				
✓				
12511930				
✓				
NA				
EM2535C502				
FS157066				
100				
✓				
✓				

BDT 2/15/16  
 Extraction Chemist / Date

Continued from page /  
 Continued on page /

BDT 2/16/16  
 Reviewed by / Date







REPORTING SUMMARY FOR 274127 PEST Soil

Sample ID	Analyte	Inst ID	Ch	Date & Time
274127-005	alpha-BHC	GC21	A	02/16/16 23:43
274127-005	beta-BHC	GC21	A	02/16/16 23:43
274127-005	gamma-BHC	GC21	A	02/16/16 23:43
274127-005	delta-BHC	GC21	A	02/16/16 23:43
274127-005	Heptachlor	GC21	A	02/16/16 23:43
274127-005	Aldrin	GC21	A	02/16/16 23:43
274127-005	Heptachlor epoxide	GC21	A	02/16/16 23:43
274127-005	Endosulfan I	GC21	A	02/16/16 23:43
274127-005	Dieldrin	GC21	A	02/16/16 23:43
274127-005	4,4'-DDE	GC21	A	02/16/16 23:43
274127-005	Endrin	GC21	A	02/16/16 23:43
274127-005	Endosulfan II	GC21	A	02/16/16 23:43
274127-005	Endosulfan sulfate	GC21	A	02/16/16 23:43
274127-005	4,4'-DDD	GC21	A	02/16/16 23:43
274127-005	Endrin aldehyde	GC21	A	02/16/16 23:43
274127-005	4,4'-DDT	GC21	A	02/16/16 23:43
274127-005	alpha-Chlordane	GC21	A	02/16/16 23:43
274127-005	gamma-Chlordane	GC21	A	02/16/16 23:43
274127-005	Methoxychlor	GC21	A	02/16/16 23:43
274127-005	Toxaphene	GC21	A	02/16/16 23:43
274127-005	TCMX	GC21	A	02/16/16 23:43
274127-005	Decachlorobiphenyl	GC21	A	02/16/16 23:43
274127-008	alpha-BHC	GC21	A	02/17/16 00:05
274127-008	beta-BHC	GC21	A	02/17/16 00:05
274127-008	gamma-BHC	GC21	A	02/17/16 00:05
274127-008	delta-BHC	GC21	A	02/17/16 00:05
274127-008	Heptachlor	GC21	A	02/17/16 00:05
274127-008	Aldrin	GC21	A	02/17/16 00:05
274127-008	Heptachlor epoxide	GC21	A	02/17/16 00:05
274127-008	Endosulfan I	GC21	A	02/17/16 00:05
274127-008	Dieldrin	GC21	A	02/17/16 00:05
274127-008	4,4'-DDE	GC21	A	02/17/16 00:05
274127-008	Endrin	GC21	A	02/17/16 00:05
274127-008	Endosulfan II	GC21	A	02/17/16 00:05
274127-008	Endosulfan sulfate	GC21	A	02/17/16 00:05
274127-008	4,4'-DDD	GC21	A	02/17/16 00:05
274127-008	Endrin aldehyde	GC21	A	02/17/16 00:05
274127-008	4,4'-DDT	GC21	A	02/17/16 00:05
274127-008	alpha-Chlordane	GC21	A	02/17/16 00:05
274127-008	gamma-Chlordane	GC21	A	02/17/16 00:05
274127-008	Methoxychlor	GC21	A	02/17/16 00:05
274127-008	Toxaphene	GC21	A	02/17/16 00:05
274127-008	TCMX	GC21	A	02/17/16 00:05
274127-008	Decachlorobiphenyl	GC21	A	02/17/16 00:05
274127-012	alpha-BHC	GC21	A	02/17/16 00:27
274127-012	beta-BHC	GC21	A	02/17/16 00:27
274127-012	gamma-BHC	GC21	A	02/17/16 00:27
274127-012	delta-BHC	GC21	A	02/17/16 00:27
274127-012	Heptachlor	GC21	A	02/17/16 00:27
274127-012	Aldrin	GC21	A	02/17/16 00:27
274127-012	Heptachlor epoxide	GC21	A	02/17/16 00:27
274127-012	Endosulfan I	GC21	A	02/17/16 00:27

REPORTING SUMMARY FOR 274127 PEST Soil

Sample ID	Analyte	Inst ID	Ch	Date & Time
274127-012	Dieldrin	GC21	A	02/17/16 00:27
274127-012	4,4'-DDE	GC21	A	02/17/16 00:27
274127-012	Endrin	GC21	A	02/17/16 00:27
274127-012	Endosulfan II	GC21	A	02/17/16 00:27
274127-012	Endosulfan sulfate	GC21	A	02/17/16 00:27
274127-012	4,4'-DDD	GC21	A	02/17/16 00:27
274127-012	Endrin aldehyde	GC21	A	02/17/16 00:27
274127-012	4,4'-DDT	GC21	A	02/17/16 00:27
274127-012	alpha-Chlordane	GC21	A	02/17/16 00:27
274127-012	gamma-Chlordane	GC21	A	02/17/16 00:27
274127-012	Methoxychlor	GC21	A	02/17/16 00:27
274127-012	Toxaphene	GC21	A	02/17/16 00:27
274127-012	TCMX	GC21	A	02/17/16 00:27
274127-012	Decachlorobiphenyl	GC21	A	02/17/16 00:27
274127-016	alpha-BHC	GC21	A	02/17/16 00:48
274127-016	beta-BHC	GC21	A	02/17/16 00:48
274127-016	gamma-BHC	GC21	A	02/17/16 00:48
274127-016	delta-BHC	GC21	A	02/17/16 00:48
274127-016	Heptachlor	GC21	A	02/17/16 00:48
274127-016	Aldrin	GC21	A	02/17/16 00:48
274127-016	Heptachlor epoxide	GC21	A	02/17/16 00:48
274127-016	Endosulfan I	GC21	A	02/17/16 00:48
274127-016	Dieldrin	GC21	A	02/17/16 00:48
274127-016	4,4'-DDE	GC21	A	02/17/16 00:48
274127-016	Endrin	GC21	A	02/17/16 00:48
274127-016	Endosulfan II	GC21	A	02/17/16 00:48
274127-016	Endosulfan sulfate	GC21	A	02/17/16 00:48
274127-016	4,4'-DDD	GC21	A	02/17/16 00:48
274127-016	Endrin aldehyde	GC21	A	02/17/16 00:48
274127-016	4,4'-DDT	GC21	A	02/17/16 00:48
274127-016	alpha-Chlordane	GC21	A	02/17/16 00:48
274127-016	gamma-Chlordane	GC21	A	02/17/16 00:48
274127-016	Methoxychlor	GC21	A	02/17/16 00:48
274127-016	Toxaphene	GC21	A	02/17/16 00:48
274127-016	TCMX	GC21	A	02/17/16 00:48
274127-016	Decachlorobiphenyl	GC21	A	02/17/16 00:48
274127-024	alpha-BHC	GC21	A	02/17/16 01:10
274127-024	beta-BHC	GC21	A	02/17/16 01:10
274127-024	gamma-BHC	GC21	A	02/17/16 01:10
274127-024	delta-BHC	GC21	A	02/17/16 01:10
274127-024	Heptachlor	GC21	A	02/17/16 01:10
274127-024	Aldrin	GC21	A	02/17/16 01:10
274127-024	Heptachlor epoxide	GC21	A	02/17/16 01:10
274127-024	Endosulfan I	GC21	A	02/17/16 01:10
274127-024	Dieldrin	GC21	A	02/17/16 01:10
274127-024	4,4'-DDE	GC21	A	02/17/16 01:10
274127-024	Endrin	GC21	A	02/17/16 01:10
274127-024	Endosulfan II	GC21	A	02/17/16 01:10
274127-024	Endosulfan sulfate	GC21	A	02/17/16 01:10
274127-024	4,4'-DDD	GC21	A	02/17/16 01:10
274127-024	Endrin aldehyde	GC21	A	02/17/16 01:10
274127-024	4,4'-DDT	GC21	A	02/17/16 01:10

REPORTING SUMMARY FOR 274127 PEST Soil

Sample ID	Analyte	Inst ID	Ch	Date & Time
274127-024	alpha-Chlordane	GC21	A	02/17/16 01:10
274127-024	gamma-Chlordane	GC21	A	02/17/16 01:10
274127-024	Methoxychlor	GC21	A	02/17/16 01:10
274127-024	Toxaphene	GC21	A	02/17/16 01:10
274127-024	TCMX	GC21	A	02/17/16 01:10
274127-024	Decachlorobiphenyl	GC21	A	02/17/16 01:10
274127-032	alpha-BHC	GC21	A	02/17/16 04:05
274127-032	beta-BHC	GC21	A	02/17/16 04:05
274127-032	gamma-BHC	GC21	A	02/17/16 04:05
274127-032	delta-BHC	GC21	A	02/17/16 04:05
274127-032	Heptachlor	GC21	A	02/17/16 04:05
274127-032	Aldrin	GC21	A	02/17/16 04:05
274127-032	Heptachlor epoxide	GC21	A	02/17/16 04:05
274127-032	Endosulfan I	GC21	A	02/17/16 04:05
274127-032	Dieldrin	GC21	A	02/17/16 04:05
274127-032	4,4'-DDE	GC21	A	02/17/16 04:05
274127-032	Endrin	GC21	A	02/17/16 04:05
274127-032	Endosulfan II	GC21	A	02/17/16 04:05
274127-032	Endosulfan sulfate	GC21	A	02/17/16 04:05
274127-032	4,4'-DDD	GC21	A	02/17/16 04:05
274127-032	Endrin aldehyde	GC21	A	02/17/16 04:05
274127-032	4,4'-DDT	GC21	A	02/17/16 04:05
274127-032	alpha-Chlordane	GC21	A	02/17/16 04:05
274127-032	gamma-Chlordane	GC21	A	02/17/16 04:05
274127-032	Methoxychlor	GC21	A	02/17/16 04:05
274127-032	Toxaphene	GC21	A	02/17/16 04:05
274127-032	TCMX	GC21	A	02/17/16 04:05
274127-032	Decachlorobiphenyl	GC21	A	02/17/16 04:05
274127-040	alpha-BHC	GC21	A	02/17/16 04:27
274127-040	beta-BHC	GC21	A	02/17/16 04:27
274127-040	gamma-BHC	GC21	A	02/17/16 04:27
274127-040	delta-BHC	GC21	A	02/17/16 04:27
274127-040	Heptachlor	GC21	A	02/17/16 04:27
274127-040	Aldrin	GC21	A	02/17/16 04:27
274127-040	Heptachlor epoxide	GC21	A	02/17/16 04:27
274127-040	Endosulfan I	GC21	A	02/17/16 04:27
274127-040	Dieldrin	GC21	A	02/17/16 04:27
274127-040	4,4'-DDE	GC21	A	02/17/16 04:27
274127-040	Endrin	GC21	A	02/17/16 04:27
274127-040	Endosulfan II	GC21	A	02/17/16 04:27
274127-040	Endosulfan sulfate	GC21	A	02/17/16 04:27
274127-040	4,4'-DDD	GC21	A	02/17/16 04:27
274127-040	Endrin aldehyde	GC21	A	02/17/16 04:27
274127-040	4,4'-DDT	GC21	A	02/17/16 04:27
274127-040	alpha-Chlordane	GC21	A	02/17/16 04:27
274127-040	gamma-Chlordane	GC21	A	02/17/16 04:27
274127-040	Methoxychlor	GC21	A	02/17/16 04:27
274127-040	Toxaphene	GC21	A	02/17/16 04:27
274127-040	TCMX	GC21	A	02/17/16 04:27
274127-040	Decachlorobiphenyl	GC21	A	02/17/16 04:27
QC823330	alpha-BHC	GC21	A	02/16/16 21:09

REPORTING SUMMARY FOR 274127 PEST Soil

Sample ID	Analyte	Inst ID	Ch	Date & Time
QC823330	beta-BHC	GC21	A	02/16/16 21:09
QC823330	gamma-BHC	GC21	A	02/16/16 21:09
QC823330	delta-BHC	GC21	A	02/16/16 21:09
QC823330	Heptachlor	GC21	A	02/16/16 21:09
QC823330	Aldrin	GC21	A	02/16/16 21:09
QC823330	Heptachlor epoxide	GC21	A	02/16/16 21:09
QC823330	Endosulfan I	GC21	A	02/16/16 21:09
QC823330	Dieldrin	GC21	A	02/16/16 21:09
QC823330	4,4'-DDE	GC21	A	02/16/16 21:09
QC823330	Endrin	GC21	A	02/16/16 21:09
QC823330	Endosulfan II	GC21	A	02/16/16 21:09
QC823330	Endosulfan sulfate	GC21	A	02/16/16 21:09
QC823330	4,4'-DDD	GC21	A	02/16/16 21:09
QC823330	Endrin aldehyde	GC21	A	02/16/16 21:09
QC823330	4,4'-DDT	GC21	A	02/16/16 21:09
QC823330	alpha-Chlordane	GC21	A	02/16/16 21:09
QC823330	gamma-Chlordane	GC21	A	02/16/16 21:09
QC823330	Methoxychlor	GC21	A	02/16/16 21:09
QC823330	Toxaphene	GC21	A	02/16/16 21:09
QC823330	TCMX	GC21	A	02/16/16 21:09
QC823330	Decachlorobiphenyl	GC21	A	02/16/16 21:09
QC823331	gamma-BHC	GC21	A	02/16/16 21:31
QC823331	Heptachlor	GC21	A	02/16/16 21:31
QC823331	Aldrin	GC21	A	02/16/16 21:31
QC823331	Dieldrin	GC21	A	02/16/16 21:31
QC823331	Endrin	GC21	A	02/16/16 21:31
QC823331	4,4'-DDT	GC21	A	02/16/16 21:31
QC823331	TCMX	GC21	A	02/16/16 21:31
QC823331	Decachlorobiphenyl	GC21	A	02/16/16 21:31
QC823332	gamma-BHC	GC21	A	02/16/16 21:53
QC823332	Heptachlor	GC21	A	02/16/16 21:53
QC823332	Aldrin	GC21	A	02/16/16 21:53
QC823332	Dieldrin	GC21	A	02/16/16 21:53
QC823332	Endrin	GC21	A	02/16/16 21:53
QC823332	4,4'-DDT	GC21	A	02/16/16 21:53
QC823332	TCMX	GC21	A	02/16/16 21:53
QC823332	Decachlorobiphenyl	GC21	A	02/16/16 21:53
QC823333	gamma-BHC	GC21	A	02/16/16 22:15
QC823333	Heptachlor	GC21	A	02/16/16 22:15
QC823333	Aldrin	GC21	A	02/16/16 22:15
QC823333	Dieldrin	GC21	A	02/16/16 22:15
QC823333	Endrin	GC21	A	02/16/16 22:15
QC823333	4,4'-DDT	GC21	A	02/16/16 22:15
QC823333	TCMX	GC21	A	02/16/16 22:15
QC823333	Decachlorobiphenyl	GC21	A	02/16/16 22:15

Laboratory Job Number 274127

ANALYTICAL REPORT

Metals

Matrix: Soil

Nickel			
Lab #:	274127	Location:	Pin High Site, San Jose
Client:	Geologica	Prep:	EPA 3050B
Project#:	STANDARD	Analysis:	EPA 6010B
Analyte:	Nickel	Batch#:	232228
Field ID:	GP-2-11.5-12'	Sampled:	01/21/16
Matrix:	Soil	Received:	02/12/16
Units:	mg/Kg	Prepared:	02/18/16
Basis:	dry	Analyzed:	02/19/16
Diln Fac:	1.000		

Type	Lab ID	Result	RL	Moisture
SAMPLE	274127-007	130	0.32	20%
BLANK	QC823952	0.55 b	0.27	

b= See narrative

RL= Reporting Limit



Lead			
Lab #:	274127	Location:	Pin High Site, San Jose
Client:	Geologica	Prep:	EPA 3050B
Project#:	STANDARD	Analysis:	EPA 6010B
Analyte:	Lead	Batch#:	232228
Field ID:	GP-6-11.5-12'	Sampled:	01/21/16
Matrix:	Soil	Received:	02/12/16
Units:	mg/Kg	Prepared:	02/18/16
Basis:	dry	Analyzed:	02/19/16
Diln Fac:	1.000		

Type	Lab ID	Result	RL	Moisture
SAMPLE	274127-022	13	0.33	29%
BLANK	QC823952	ND	0.27	

ND= Not Detected  
 RL= Reporting Limit

Zinc			
Lab #:	274127	Location:	Pin High Site, San Jose
Client:	Geologica	Prep:	EPA 3050B
Project#:	STANDARD	Analysis:	EPA 6010B
Analyte:	Zinc	Batch#:	232228
Field ID:	GP-5-11.5-12'	Sampled:	01/21/16
Matrix:	Soil	Received:	02/12/16
Units:	mg/Kg	Prepared:	02/18/16
Basis:	dry	Analyzed:	02/19/16
Diln Fac:	1.000		

Type	Lab ID	Result	RL	Moisture
SAMPLE	274127-019	120	2.0	49%
BLANK	QC823952	ND	1.1	

ND= Not Detected  
 RL= Reporting Limit

**Batch QC Report**

<b>Nickel</b>			
Lab #:	274127	Location:	Pin High Site, San Jose
Client:	Geologica	Prep:	EPA 3050B
Project#:	STANDARD	Analysis:	EPA 6010B
Analyte:	Nickel	Diln Fac:	5.000
Field ID:	GP-2-11.5-12'	Batch#:	232228
MSS Lab ID:	274127-007	Sampled:	01/21/16
Matrix:	Soil	Received:	02/12/16
Units:	mg/Kg	Prepared:	02/18/16
Basis:	dry	Analyzed:	02/19/16

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	Moisture	RPD	Lim
BS	QC823953		50.51	50.04	99	80-120			
BSD	QC823954		52.08	49.08	94	80-120		5	20
MS	QC823955	128.3	65.79	227.5	151 *	44-141	20%		
MSD	QC823956		58.41	184.7	96	44-141	20%	17	39

\*= Value outside of QC limits; see narrative

RPD= Relative Percent Difference

**Batch QC Report**

<b>Lead</b>			
Lab #:	274127	Location:	Pin High Site, San Jose
Client:	Geologica	Prep:	EPA 3050B
Project#:	STANDARD	Analysis:	EPA 6010B
Analyte:	Lead	Diln Fac:	5.000
Field ID:	GP-2-11.5-12'	Batch#:	232228
MSS Lab ID:	274127-007	Sampled:	01/21/16
Matrix:	Soil	Received:	02/12/16
Units:	mg/Kg	Prepared:	02/18/16
Basis:	dry	Analyzed:	02/19/16

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	Moisture	RPD	Lim
BS	QC823953		50.51	50.38	100	80-120			
BSD	QC823954		52.08	50.48	97	80-120		3	20
MS	QC823955	13.30	65.79	77.24	97	53-125	20%		
MSD	QC823956		58.41	67.06	92	53-125	20%	4	42

RPD= Relative Percent Difference

**Batch QC Report**

<b>Zinc</b>			
Lab #:	274127	Location:	Pin High Site, San Jose
Client:	Geologica	Prep:	EPA 3050B
Project#:	STANDARD	Analysis:	EPA 6010B
Analyte:	Zinc	Diln Fac:	5.000
Field ID:	GP-2-11.5-12'	Batch#:	232228
MSS Lab ID:	274127-007	Sampled:	01/21/16
Matrix:	Soil	Received:	02/12/16
Units:	mg/Kg	Prepared:	02/18/16
Basis:	dry	Analyzed:	02/19/16

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	Moisture	RPD	Lim
BS	QC823953		50.51	50.55	100	80-120			
BSD	QC823954		52.08	50.73	97	80-120		3	20
MS	QC823955	78.97	65.79	147.3	104	45-145	20%		
MSD	QC823956		58.41	134.9	96	45-145	20%	4	39

RPD= Relative Percent Difference

## Batch QC Report

Nickel			
Lab #:	274127	Location:	Pin High Site, San Jose
Client:	Geologica	Prep:	EPA 3050B
Project#:	STANDARD	Analysis:	EPA 6010B
Analyte:	Nickel	Basis:	dry
Field ID:	GP-2-11.5-12'	Diln Fac:	5.000
Type:	Serial Dilution	Batch#:	232228
MSS Lab ID:	274127-007	Sampled:	01/21/16
Lab ID:	QC823957	Received:	02/12/16
Matrix:	Soil	Analyzed:	02/19/16
Units:	mg/Kg		

MSS Result	MSS RL	Result	RL	Moisture %	Diff	Lim
128.3	0.3222	142.5	1.611	20%	11 *	10

\*= Value outside of QC limits; see narrative

RL= Reporting Limit

**Batch QC Report**

<b>Lead</b>			
Lab #:	274127	Location:	Pin High Site, San Jose
Client:	Geologica	Prep:	EPA 3050B
Project#:	STANDARD	Analysis:	EPA 6010B
Analyte:	Lead	Basis:	dry
Field ID:	GP-2-11.5-12'	Diln Fac:	5.000
Type:	Serial Dilution	Batch#:	232228
MSS Lab ID:	274127-007	Sampled:	01/21/16
Lab ID:	QC823957	Received:	02/12/16
Matrix:	Soil	Analyzed:	02/19/16
Units:	mg/Kg		

<b>MSS Result</b>	<b>MSS RL</b>	<b>Result</b>	<b>RL</b>	<b>Moisture %</b>	<b>Diff</b>	<b>Lim</b>
13.30	0.3222	13.63	1.611	20%	2	10

RL= Reporting Limit

**Batch QC Report**

<b>Zinc</b>			
Lab #:	274127	Location:	Pin High Site, San Jose
Client:	Geologica	Prep:	EPA 3050B
Project#:	STANDARD	Analysis:	EPA 6010B
Analyte:	Zinc	Basis:	dry
Field ID:	GP-2-11.5-12'	Diln Fac:	5.000
Type:	Serial Dilution	Batch#:	232228
MSS Lab ID:	274127-007	Sampled:	01/21/16
Lab ID:	QC823957	Received:	02/12/16
Matrix:	Soil	Analyzed:	02/19/16
Units:	mg/Kg		

<b>MSS Result</b>	<b>MSS RL</b>	<b>Result</b>	<b>RL</b>	<b>Moisture %</b>	<b>Diff</b>	<b>Lim</b>
78.97	1.289	90.55	6.443	20%	15 *	10

\*= Value outside of QC limits; see narrative

RL= Reporting Limit



## Batch QC Report

Nickel			
Lab #:	274127	Location:	Pin High Site, San Jose
Client:	Geologica	Prep:	EPA 3050B
Project#:	STANDARD	Analysis:	EPA 6010B
Analyte:	Nickel	Basis:	dry
Field ID:	GP-2-11.5-12'	Diln Fac:	1.000
Type:	Post Digest Spike	Batch#:	232228
MSS Lab ID:	274127-007	Sampled:	01/21/16
Lab ID:	QC823958	Received:	02/12/16
Matrix:	Soil	Analyzed:	02/19/16
Units:	mg/Kg		

MSS Result	Spiked	Result	%REC	Limits	Moisture
128.3	6.443	132.6	67 NM	75-125	20%

NM= Not Meaningful: Sample concentration > 4X spike concentration

**Batch QC Report**

<b>Lead</b>			
Lab #:	274127	Location:	Pin High Site, San Jose
Client:	Geologica	Prep:	EPA 3050B
Project#:	STANDARD	Analysis:	EPA 6010B
Analyte:	Lead	Basis:	dry
Field ID:	GP-2-11.5-12'	Diln Fac:	1.000
Type:	Post Digest Spike	Batch#:	232228
MSS Lab ID:	274127-007	Sampled:	01/21/16
Lab ID:	QC823958	Received:	02/12/16
Matrix:	Soil	Analyzed:	02/19/16
Units:	mg/Kg		

<b>MSS Result</b>	<b>Spiked</b>	<b>Result</b>	<b>%REC</b>	<b>Limits</b>	<b>Moisture</b>
13.30	6.443	19.11	90	75-125	20%

## Batch QC Report

Zinc			
Lab #:	274127	Location:	Pin High Site, San Jose
Client:	Geologica	Prep:	EPA 3050B
Project#:	STANDARD	Analysis:	EPA 6010B
Analyte:	Zinc	Basis:	dry
Field ID:	GP-2-11.5-12'	Diln Fac:	1.000
Type:	Post Digest Spike	Batch#:	232228
MSS Lab ID:	274127-007	Sampled:	01/21/16
Lab ID:	QC823958	Received:	02/12/16
Matrix:	Soil	Analyzed:	02/19/16
Units:	mg/Kg		

MSS Result	Spiked	Result	%REC	Limits	Moisture
78.97	6.443	84.42	85 NM	75-125	20%

NM= Not Meaningful: Sample concentration &gt; 4X spike concentration

REPORTING SUMMARY FOR 274127 METALS Soil  
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	P B	N I	Z N
274127-007	MET08	02/19/16 11:12	1.0	+	+	+
274127-007	MET08	02/21/16 16:01	1.0			
274127-019	MET08	02/19/16 11:25	1.0			+
274127-022	MET08	02/19/16 11:33	1.0	+		
QC823952	MET08	02/19/16 11:04	1.0	+	+	+
QC823952	MET09	02/19/16 17:29	1.0			
QC823953	MET08	02/19/16 11:07	5.0	+	+	+
QC823954	MET08	02/19/16 11:10	5.0	+	+	+
QC823955	MET08	02/19/16 11:14	5.0	+	+	+
QC823956	MET08	02/19/16 11:17	5.0	+	+	+
QC823957	MET08	02/19/16 11:20	5.0	+	+	+
QC823958	MET08	02/19/16 11:23	1.0	+	+	+

ICP Data

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 86072515

Instrument : MET08  
 Method : EPA 6010B

Begun : 02/19/16 08:35  
 SOP Version : icp metals\_rv17

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	met08_sn_6010	ICALBLK				02/19/16 08:35	1.0		
002	met08_sn_6010	ICAL	L1			02/19/16 08:38	1.0	1	
003	met08_sn_6010	ICAL	L2			02/19/16 08:41	1.0	2	
004	met08_sn_6010	ICAL	L3			02/19/16 08:44	1.0	3	
005	met08_sn_6010	ICAL	L4			02/19/16 08:47	1.0	4	
006	met08_sn_6010	ICAL	L5			02/19/16 08:49	1.0	5	
007	met08_sn_6010	XICV				02/19/16 08:51	1.0	6	
008	met08_sn_6010	ICV				02/19/16 09:17	1.0	6	
009	met08_sn_6010	XCRI				02/19/16 09:21	1.0	7	
010	met08_sn_6010	ICB				02/19/16 09:27	1.0		
011	met08_sn_6010	CRI				02/19/16 09:31	1.0	7	
012	met08_sn_6010	ICSA				02/19/16 09:34	1.0	8	9:AL=500000
013	met08_sn_6010	ICSAB				02/19/16 09:57	1.0	9	2:AL=220000
014	met08_sn_6010	X	RINSE			02/19/16 10:18	1.0		
015	met08_sn_6010	XBLANK	QC823943	Soil	232226	02/19/16 10:21	1.0		
016	met08_sn_6010	MSS	274180-001	Soil	232226	02/19/16 10:25	1.0		4:FE=410000
017	met08_sn_6010	SAMPLE	274180-002	Soil	232226	02/19/16 10:27	1.0		4:FE=370000
018	met08_sn_6010	SAMPLE	274180-003	Soil	232226	02/19/16 10:29	1.0		5:AL=720000
019	met08_sn_6010	SAMPLE	274180-004	Soil	232226	02/19/16 10:31	1.0		4:FE=380000
020	met08_sn_6010	SAMPLE	274198-001	Soil	232226	02/19/16 10:33	1.0		3:FE=290000
021	met08_sn_6010	SAMPLE	274198-002	Soil	232226	02/19/16 10:35	1.0		2:FE=330000
022	met08_sn_6010	CCV				02/19/16 10:37	1.0	10	
023	met08_sn_6010	CCB				02/19/16 10:39	1.0		
024	met08_sn_6010	X	RINSE			02/19/16 10:44	1.0		
025	met08_sn_6010	BLANK	QC823918	Filtrate	232223	02/19/16 10:48	1.0		
026	met08_sn_6010	BLANK	QC823926	Filtrate	232224	02/19/16 10:51	1.0		
027	met08_sn_6010	CCV				02/19/16 10:54	1.0	10	
028	met08_sn_6010	CCB				02/19/16 10:56	1.0		
029	met08_sn_6010	X	RINSE			02/19/16 11:01	1.0		
030	met08_sn_6010	BLANK	QC823952	Soil	232228	02/19/16 11:04	1.0		
031	met08_sn_6010	BS	QC823953	Soil	232228	02/19/16 11:07	5.0		
032	met08_sn_6010	BSD	QC823954	Soil	232228	02/19/16 11:10	5.0		
033	met08_sn_6010	MSS	274127-007	Soil	232228	02/19/16 11:12	1.0		4:FE=540000
034	met08_sn_6010	MS	QC823955	Soil	232228	02/19/16 11:14	5.0		1:FE=120000
035	met08_sn_6010	MSD	QC823956	Soil	232228	02/19/16 11:17	5.0		1:FE=120000
036	met08_sn_6010	SER	QC823957	Soil	232228	02/19/16 11:20	5.0		1:FE=120000
037	met08_sn_6010	PDS	QC823958	Soil	232228	02/19/16 11:23	1.0	11 12 13	4:FE=520000
038	met08_sn_6010	SAMPLE	274127-019	Soil	232228	02/19/16 11:25	1.0		3:FE=360000
039	met08_sn_6010	CCV				02/19/16 11:27	1.0	10	
040	met08_sn_6010	CCB				02/19/16 11:29	1.0		
041	met08_sn_6010	SAMPLE	274127-022	Soil	232228	02/19/16 11:33	1.0		4:FE=480000
042	met08_sn_6010	SAMPLE	274196-001	Soil	232228	02/19/16 11:35	1.0		3:AL=380000
043	met08_sn_6010	SAMPLE	274196-002	Soil	232228	02/19/16 11:37	1.0		3:FE=420000
044	met08_sn_6010	SAMPLE	274196-003	Soil	232228	02/19/16 11:39	1.0		3:FE=380000
045	met08_sn_6010	SAMPLE	274196-004	Soil	232228	02/19/16 11:41	1.0		3:FE=400000
046	met08_sn_6010	SAMPLE	274196-005	Soil	232228	02/19/16 11:43	1.0		3:FE=410000
047	met08_sn_6010	SAMPLE	274196-006	Soil	232228	02/19/16 11:45	1.0		3:FE=420000
048	met08_sn_6010	SAMPLE	274196-007	Soil	232228	02/19/16 11:47	1.0		3:FE=430000
049	met08_sn_6010	SAMPLE	274196-008	Soil	232228	02/19/16 11:49	1.0		3:FE=460000
050	met08_sn_6010	SAMPLE	274289-001	Soil	232228	02/19/16 11:51	1.0		3:FE=240000
051	met08_sn_6010	CCV				02/19/16 11:53	1.0	10	
052	met08_sn_6010	CCB				02/19/16 11:55	1.0		

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 86072515

Instrument : MET08  
 Method : EPA 6010B

Begun : 02/19/16 08:35  
 SOP Version : icp metals\_rv17

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
053	met08_sn_6010	X	RINSE			02/19/16 13:43	1.0		
054	met08_sn_6010	CCV				02/19/16 13:47	1.0	10	
055	met08_sn_6010	CCB				02/19/16 13:49	1.0		
056	met08_sn_6010	SAMPLE	274040-016	Soil	232146	02/19/16 13:52	1.0		4:FE=540000
057	met08_sn_6010	SAMPLE	274040-017	Soil	232146	02/19/16 13:54	1.0		3:FE=390000
058	met08_sn_6010	SAMPLE	274040-018	Soil	232146	02/19/16 13:56	1.0		3:FE=340000
059	met08_sn_6010	X	RINSE			02/19/16 13:58	1.0		
060	met08_sn_6010	XBLANK	QC823780	Soil	232186	02/19/16 14:01	1.0		
061	met08_sn_6010	BS	QC823781	Soil	232186	02/19/16 14:05	5.0		
062	met08_sn_6010	BSD	QC823782	Soil	232186	02/19/16 14:07	5.0		
063	met08_sn_6010	MSS	273900-004	Soil	232186	02/19/16 14:09	1.0		5:FE=720000
064	met08_sn_6010	MS	QC823783	Soil	232186	02/19/16 14:11	5.0		1:FE=130000
065	met08_sn_6010	MSD	QC823784	Soil	232186	02/19/16 14:14	5.0		1:FE=130000
066	met08_sn_6010	CCV				02/19/16 14:16	1.0	10	
067	met08_sn_6010	CCB				02/19/16 14:19	1.0		
068	met08_sn_6010	SAMPLE	273900-002	Soil	232186	02/19/16 14:22	1.0		6:FE=900000
069	met08_sn_6010	SAMPLE	273900-003	Soil	232186	02/19/16 14:24	1.0		7:FE=1300000
070	met08_sn_6010	SAMPLE	273900-005	Soil	232186	02/19/16 14:26	1.0		4:FE=1100000
071	met08_sn_6010	SAMPLE	274040-021	Soil	232186	02/19/16 14:28	1.0		3:FE=330000
072	met08_sn_6010	SAMPLE	274040-022	Soil	232186	02/19/16 14:30	1.0		5:FE=680000
073	met08_sn_6010	SAMPLE	274040-023	Soil	232186	02/19/16 14:32	1.0		3:FE=360000
074	met08_sn_6010	SAMPLE	274040-024	Soil	232186	02/19/16 14:34	1.0		4:FE=450000
075	met08_sn_6010	SAMPLE	274068-005	Soil	232186	02/19/16 14:36	1.0		4:FE=490000
076	met08_sn_6010	SAMPLE	274069-005	Soil	232186	02/19/16 14:38	1.0		3:FE=480000
077	met08_sn_6010	SAMPLE	274123-025	Soil	232186	02/19/16 14:41	1.0		3:FE=560000
078	met08_sn_6010	CCV				02/19/16 14:43	1.0	10	
079	met08_sn_6010	CCB				02/19/16 14:45	1.0		
080	met08_sn_6010	SAMPLE	274123-026	Soil	232186	02/19/16 14:48	1.0		4:FE=580000
081	met08_sn_6010	SAMPLE	274123-027	Soil	232186	02/19/16 14:50	1.0		3:FE=550000
082	met08_sn_6010	SAMPLE	274123-028	Soil	232186	02/19/16 14:52	1.0		3:FE=570000
083	met08_sn_6010	SAMPLE	274123-029	Soil	232186	02/19/16 14:54	1.0		4:FE=590000
084	met08_sn_6010	SAMPLE	274123-030	Soil	232186	02/19/16 14:56	1.0		4:FE=640000
085	met08_sn_6010	SAMPLE	274125-001	Soil	232186	02/19/16 14:58	1.0		5:FE=690000
086	met08_sn_6010	SAMPLE	274125-002	Soil	232186	02/19/16 15:00	1.0		5:FE=780000
087	met08_sn_6010	SAMPLE	274140-001	Soil	232186	02/19/16 15:02	1.0		5:MG=500000
088	met08_sn_6010	CCV				02/19/16 15:04	1.0	10	
089	met08_sn_6010	CCB				02/19/16 15:07	1.0		
090	met08_sn_6010	X	RINSE			02/19/16 15:14	1.0		
091	met08_sn_6010	MSS	274040-001	Soil	232146	02/19/16 15:17	1.0		5:FE=530000
092	met08_sn_6010	SAMPLE	274040-002	Soil	232146	02/19/16 15:19	1.0		3:FE=330000
093	met08_sn_6010	SAMPLE	274040-003	Soil	232146	02/19/16 15:22	1.0		4:FE=490000
094	met08_sn_6010	SAMPLE	274040-004	Soil	232146	02/19/16 15:24	1.0		4:FE=430000
095	met08_sn_6010	SAMPLE	274040-005	Soil	232146	02/19/16 15:26	1.0		3:FE=310000
096	met08_sn_6010	SAMPLE	274040-006	Soil	232146	02/19/16 15:28	1.0		3:FE=470000
097	met08_sn_6010	SAMPLE	274040-007	Soil	232146	02/19/16 15:30	1.0		4:FE=440000
098	met08_sn_6010	SAMPLE	274040-008	Soil	232146	02/19/16 15:32	1.0		3:FE=390000
099	met08_sn_6010	SAMPLE	274040-009	Soil	232146	02/19/16 15:34	1.0		4:FE=560000
100	met08_sn_6010	CCV				02/19/16 15:36	1.0	10	
101	met08_sn_6010	CCB				02/19/16 15:38	1.0		
102	met08_sn_6010	SAMPLE	274040-010	Soil	232146	02/19/16 15:41	1.0		5:FE=390000
103	met08_sn_6010	SAMPLE	274040-011	Soil	232146	02/19/16 15:43	1.0		4:FE=450000
104	met08_sn_6010	BLANK	QC823780	Soil	232186	02/19/16 15:45	1.0		

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 86072515

Instrument : MET08  
 Method : EPA 6010B

Begun : 02/19/16 08:35  
 SOP Version : icp\_metals\_rv17

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
105	met08_sn_6010	SAMPLE	274040-012	Soil	232146	02/19/16 15:49	1.0		4:FE=490000
106	met08_sn_6010	SAMPLE	274040-013	Soil	232146	02/19/16 15:51	1.0		4:FE=270000
107	met08_sn_6010	SAMPLE	274040-014	Soil	232146	02/19/16 15:53	1.0		4:FE=390000
108	met08_sn_6010	SAMPLE	274040-015	Soil	232146	02/19/16 15:55	1.0		3:FE=490000
109	met08_sn_6010	SAMPLE	274040-019	Soil	232146	02/19/16 15:57	1.0		5:FE=630000
110	met08_sn_6010	SAMPLE	274040-020	Soil	232146	02/19/16 15:59	1.0		4:FE=460000
111	met08_sn_6010	SAMPLE	274040-018	Soil	232146	02/19/16 16:01	1.0		3:FE=330000
112	met08_sn_6010	CCV				02/19/16 16:03	1.0	10	
113	met08_sn_6010	CCB				02/19/16 16:05	1.0		
114	met08_sn_6010	BLANK	QC823785	Soil	232187	02/19/16 18:43	1.0		
115	met08_sn_6010	CCV				02/19/16 18:47	1.0	10	
116	met08_sn_6010	CCB				02/19/16 18:49	1.0		

CRT 02/19/16 : Bad blank sample uptake on run 15. Some analytes saturated. Removed from sequence.

CRT 02/19/16 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 113.

CRT 02/19/16 : Blank on run 060 had a bad reading (high yttrium possible, air bubble). Removed from sequence and reran blank on run 104.

NCD 02/21/16 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 105 through 116.

Standards used: 1=S29107 2=S28702 3=S28703 4=S28704 5=S29125 6=S28706 7=S29108 8=S28694 9=S28933 10=S28705 11=S28385  
 12=S28386 13=S28732



CURTIS & TOMPKINS INTERNAL STANDARD SUMMARY FOR SEQUENCE 86072515

Date : 02/19/16  
 Sequence : MET08 02/19/16

Reference : met08\_sn\_6010  
 Analyzed : 02/19/16 08:38

#	Type	Sample ID	Y	A
		ICAL STD	13763434	
		LOWER LIMIT	4129030	
		UPPER LIMIT	27526868	
010	ICB		13811378	
012	ICSA		12412089	
013	ICSAB		13589282	
016	MSS	274180-001	12896079	
017	SAMPLE	274180-002	13627934	
018	SAMPLE	274180-003	12688152	
019	SAMPLE	274180-004	13633569	
020	SAMPLE	274198-001	14231209	
021	SAMPLE	274198-002	13674997	
022	CCV		13727669	
023	CCB		13917629	
025	BLANK	QC823918	13979786	
026	BLANK	QC823926	14082667	
027	CCV		13579564	
028	CCB		13934202	
030	BLANK	QC823952	14255729	
031	BS	QC823953	14224017	
032	BSD	QC823954	14299014	
033	MSS	274127-007	13600136	
034	MS	QC823955	14002267	
035	MSD	QC823956	13896447	
036	SER	QC823957	13994890	
037	PDS	QC823958	13542622	
038	SAMPLE	274127-019	13768096	
039	CCV		13701116	
040	CCB		14254268	
041	SAMPLE	274127-022	13750231	
042	SAMPLE	274196-001	13378515	
043	SAMPLE	274196-002	13877974	
044	SAMPLE	274196-003	13677294	
045	SAMPLE	274196-004	13210091	
046	SAMPLE	274196-005	13457064	
047	SAMPLE	274196-006	13648160	
048	SAMPLE	274196-007	13495498	
049	SAMPLE	274196-008	13416462	
050	SAMPLE	274289-001	13947841	
051	CCV		13698515	
052	CCB		14255704	
054	CCV		13906556	
055	CCB		14233020	
056	SAMPLE	274040-016	13297514	
057	SAMPLE	274040-017	13225152	
058	SAMPLE	274040-018	13688369	
061	BS	QC823781	14790750	
062	BSD	QC823782	14263741	
063	MSS	273900-004	11619420	
064	MS	QC823783	13029083	
065	MSD	QC823784	13007048	

CURTIS & TOMPKINS INTERNAL STANDARD SUMMARY FOR SEQUENCE 86072515

Date : 02/19/16  
 Sequence : MET08 02/19/16

Reference : met08\_sn\_6010  
 Analyzed : 02/19/16 08:38

#	Type	Sample ID	Y	A
066	CCV		13734001	
067	CCB		14098372	
068	SAMPLE	273900-002	11406408	
069	SAMPLE	273900-003	11549529	
070	SAMPLE	273900-005	12977044	
071	SAMPLE	274040-021	13609508	
072	SAMPLE	274040-022	12770331	
073	SAMPLE	274040-023	13989324	
074	SAMPLE	274040-024	13491958	
075	SAMPLE	274068-005	13601670	
076	SAMPLE	274069-005	13651193	
077	SAMPLE	274123-025	13015343	
078	CCV		14180684	
079	CCB		14519460	
080	SAMPLE	274123-026	12809345	
081	SAMPLE	274123-027	12978118	
082	SAMPLE	274123-028	13332820	
083	SAMPLE	274123-029	13346523	
084	SAMPLE	274123-030	13062904	
085	SAMPLE	274125-001	13276027	
086	SAMPLE	274125-002	12804768	
087	SAMPLE	274140-001	13015962	
088	CCV		13835689	
089	CCB		14161087	
091	MSS	274040-001	13864350	
092	SAMPLE	274040-002	14236893	
093	SAMPLE	274040-003	13839684	
094	SAMPLE	274040-004	12998501	
095	SAMPLE	274040-005	13379420	
096	SAMPLE	274040-006	13297667	
097	SAMPLE	274040-007	13759515	
098	SAMPLE	274040-008	13395673	
099	SAMPLE	274040-009	13825916	
100	CCV		13672433	
101	CCB		14079920	
102	SAMPLE	274040-010	13992080	
103	SAMPLE	274040-011	13367627	
104	BLANK	QC823780	14502526	
105	SAMPLE	274040-012	13785999	
106	SAMPLE	274040-013	12636395	
107	SAMPLE	274040-014	13816842	
108	SAMPLE	274040-015	13303626	
109	SAMPLE	274040-019	13058475	
110	SAMPLE	274040-020	13513462	
111	SAMPLE	274040-018	13954133	
112	CCV		14195284	
113	CCB		14125279	
114	BLANK	QC823785	15022034	
115	CCV		14148592	
116	CCB		14394708	

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 274127 METALS Soil: EPA 6010B

Inst : MET08  
 Calnum : 86072515001  
 Units : ug/L

Date : 19-FEB-2016 08:35  
 X Axis : R

Reviewer : ---

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	met08_sn_6010	86072515002	L1	19-FEB-2016 08:38	S29107
L2	met08_sn_6010	86072515003	L2	19-FEB-2016 08:41	S28702
L3	met08_sn_6010	86072515004	L3	19-FEB-2016 08:44	S28703
L4	met08_sn_6010	86072515005	L4	19-FEB-2016 08:47	S28704
L5	met08_sn_6010	86072515006	L5	19-FEB-2016 08:49	S29125

Analyte	Ch	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	Flg
Lead	A	35.120	40.660	40.983	40.289		LOR0	0.00000	0.02482		39.263	1.000	0.995	
Nickel	A	41.960	39.439	40.392	40.819		LOR0	0.00000	0.02450		40.652	1.000	0.995	
Zinc	A	82.375	59.974	59.635	58.342		LOR0	0.00000	0.01714		65.082	1.000	0.995	

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D
Lead	A	5.0000	-13	100.00	1	1000.0	2	10000	0		
Nickel	A	5.0000	3	100.00	-3	1000.0	-1	10000	0		
Zinc	A	20.000	<b>41</b>	100.00	3	1000.0	2	10000	0		

Instrument amount = a0 + response \* a1 + response^2 \* a2; LOR0=Linear regression forced thru origin, including 0,0 point

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 274127 METALS Soil  
EPA 6010B

Inst : MET08

Calnum : 86072515001

Cal Date : 19-FEB-2016

ICV 86072515008 (19-FEB-2016) stds: S28706

Analyte	Ch	Spiked	Quant	Units	%D	Max	Flags
Lead	A	5000	4974	ug/L	-1	10	
Nickel	A	5000	5026	ug/L	1	10	
Zinc	A	5000	5078	ug/L	2	10	

CURTIS & TOMPKINS INSTRUMENT BLANK FOR 274127 METALS Soil  
EPA 6010B

Inst : MET08 IDF : 1.0  
 Seqnum : 86072515010 File : met08\_sn\_6010 Time : 19-FEB-2016 09:27  
 Cal : 86072515001 Caldate : 19-FEB-2016

Analyte	Ch	Quant	IQL	LOD	Units	Flags
Lead	A	ND	5.000	4.000	ug/L	
Nickel	A	ND	5.000	2.500	ug/L	
Zinc	A	ND	20.00	16.00	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	13763434	13811378	0.35

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD A FOR 274127 METALS Soil  
EPA 6010B

Inst : MET08 IDF : 1.0  
 Seqnum : 86072515012 File : met08\_sn\_6010 Time : 19-FEB-2016 09:34  
 Cal : 86072515001 Caldate : 19-FEB-2016  
 Standards: S28694

Analyte	Ch	Quant	IQL	Units	Flags
Lead	A	[2.313]	5.000	ug/L	
Zinc	A	[2.860]	20.00	ug/L	

Interferent	Ch	Spiked	Quant	Units	%Rec
Chromium	A	20000	19230	ug/L	96
Copper	A	20000	20820	ug/L	104
Manganese	A	20000	18700	ug/L	93
Nickel	A	20000	18410	ug/L	92
Vanadium	A	20000	20090	ug/L	100
Aluminum	R	500000	497300	ug/L	99
Iron	R	200000	184100	ug/L	92
Magnesium	R	500000	487200	ug/L	97
Titanium	R	20000	20740	ug/L	104

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	13763434	12412089	-9.82

CURTIS & TOMPKINS INTERFERENCE CHECK STANDARD AB FOR 274127 METALS Soil  
EPA 6010B

Inst : MET08  
 Seqnum : 86072515013  
 Cal : 86072515001  
 Standards: S28933

File : met08\_sn\_6010  
 Caldate : 19-FEB-2016

IDF : 1.0  
 Time : 19-FEB-2016 09:57

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Lead	A	1000	907.9	ug/L	-9	20	
Nickel	A	1000	865.2	ug/L	-13	20	
Zinc	A	1000	895.2	ug/L	-10	20	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	13763434	13589282	-1.27

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 274127 METALS Soil  
EPA 6010B

Inst : MET08 IDF : 1.0  
 Seqnum : 86072515027 File : met08\_sn\_6010 Time : 19-FEB-2016 10:54  
 Cal : 86072515001 Caldate : 19-FEB-2016  
 Standards: S28705

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Lead	A	39.263	40.783	5000	5060	ug/L	1	10	
Nickel	A	40.652	41.483	5000	5082	ug/L	2	10	
Zinc	A	65.082	59.856	5000	5129	ug/L	3	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	13763434	13579564	-1.34



CURTIS & TOMPKINS INSTRUMENT BLANK FOR 274127 METALS Soil  
EPA 6010B

Inst : MET08 IDF : 1.0  
 Seqnum : 86072515028 File : met08\_sn\_6010 Time : 19-FEB-2016 10:56  
 Cal : 86072515001 Caldate : 19-FEB-2016

Analyte	Ch	Quant	IQL	LOD	Units	Flags
Lead	A	ND	5.000	4.000	ug/L	
Nickel	A	ND	5.000	2.500	ug/L	
Zinc	A	ND	20.00	16.00	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	13763434	13934202	1.24

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 274127 METALS Soil  
EPA 6010B

Inst : MET08  
 Seqnum : 86072515039  
 Cal : 86072515001  
 Standards: S28705

IDF : 1.0  
 Time : 19-FEB-2016 11:27

File : met08\_sn\_6010  
 Caldate : 19-FEB-2016

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Lead	A	39.263	40.437	5000	5018	ug/L	0	10	
Nickel	A	40.652	41.719	5000	5111	ug/L	2	10	
Zinc	A	65.082	59.849	5000	5128	ug/L	3	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	13763434	13701116	-0.45

CURTIS & TOMPKINS INSTRUMENT BLANK FOR 274127 METALS Soil  
EPA 6010B

Inst : MET08 IDF : 1.0  
 Seqnum : 86072515040 File : met08\_sn\_6010 Time : 19-FEB-2016 11:29  
 Cal : 86072515001 Caldate : 19-FEB-2016

Analyte	Ch	Quant	IQL	LOD	Units	Flags
Lead	A	ND	5.000	4.000	ug/L	
Nickel	A	ND	5.000	2.500	ug/L	
Zinc	A	ND	20.00	16.00	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	13763434	14254268	3.57

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 274127 METALS Soil  
EPA 6010B

Inst : MET08  
 Seqnum : 86072515051      File : met08\_sn\_6010  
 Cal : 86072515001      Caldate : 19-FEB-2016  
 Standards: S28705

IDF : 1.0  
 Time : 19-FEB-2016 11:53

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Lead	A	39.263	40.728	5000	5054	ug/L	1	10	
Nickel	A	40.652	41.523	5000	5087	ug/L	2	10	
Zinc	A	65.082	59.800	5000	5124	ug/L	2	10	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	13763434	13698515	-0.47

CURTIS & TOMPKINS INSTRUMENT BLANK FOR 274127 METALS Soil  
EPA 6010B

Inst : MET08 IDF : 1.0  
 Seqnum : 86072515052 File : met08\_sn\_6010 Time : 19-FEB-2016 11:55  
 Cal : 86072515001 Caldate : 19-FEB-2016

Analyte	Ch	Quant	IQL	LOD	Units	Flags
Lead	A	ND	5.000	4.000	ug/L	
Nickel	A	ND	5.000	2.500	ug/L	
Zinc	A	ND	20.00	16.00	ug/L	

ISTD (ICAL 002)	Ch	ICAL Abund	Abund	%Drift
Yttrium	A	13763434	14255704	3.58

SAMPLE PREPARATION SUMMARY

Batch # : 232228  
 Started By : RFC  
 Method : 3050B  
 Spike #1 ID : S29104

Prep Date : 18-FEB-2016 15:00  
 Spike #2 ID : S29105

Analysis : ICP  
 Finished By : RFC  
 Units : g  
 Spike #3 ID : S28732

Sample	Stype	Matrix	Initial	Final	Clean DF	Prep DF	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Clean Method	Analysis	Comments
274127-007		Soil	.97	50	1	51.55						6010	
274127-019		Soil	.96	50	1	52.08						6010	
274127-022		Soil	1.06	50	1	47.17						6010	
274196-001		Soil	.94	50	1	53.19						6010	
274196-002		Soil	1.09	50	1	45.87						6010	
274196-003		Soil	.9	50	1	55.56						6010	
274196-004		Soil	1.09	50	1	45.87						6010	
274196-005		Soil	.95	50	1	52.63						6010	
274196-006		Soil	1.04	50	1	48.08						6010	
274196-007		Soil	1.07	50	1	46.73						6010	
274196-008		Soil	.95	50	1	52.63						6010	
274289-001		Soil	1.02	50	1	49.02						6010	
QC823952	BLANK	Soil	.91	50	1	54.95							
QC823953	BS	Soil	.99	50	1	50.51	.5	.5	.5				
QC823954	BSD	Soil	.96	50	1	52.08	.5	.5	.5				
QC823955	MS	Soil	.95	50	1	52.63	.5	.5	.5				
QC823956	MSD	Soil	1.07	50	1	46.73	.5	.5	.5				
QC823957	SER	Soil	.97	50	1	51.55							
QC823958	PDS	Soil	.97	50	1	51.55							

Analyst: NCD

Date: 02/21/16

Reviewer: PRW

Date: 02/22/16

LIMS Batch #: 232728  
 Date Digested: 2/18/19  
 Digested by: RFC

Digestion Method: Time ON: 15:00  
 EPA 3050b Time OFF: 17:50

BK3773  
 Page 91

Sample #	Container ID	Weight of Sample (g)	Final Volume (mL)	Filtered? (y/n)	ID ✓	Comments
BLANK		0.91	50	✓	✓	QC823952
BS		0.99	50	✓	✓	-953
BSD		0.96	50	✓	✓	-954
MS		0.95	50	✓	✓	-955
MSD		1.07	50	✓	✓	-956
274127-007	A	0.97	50	✓	✓	MSS
↓ -019	↓	0.96	50	✓	✓	
↓ -022	↓	1.06	50	✓	✓	
274196-001	C	0.94	50	✓	✓	
↓ -002	B	1.09	50	✓	✓	
↓ -003	↓	0.90	50	✓	✓	
↓ -004	C	1.09	50	✓	✓	
↓ -005	B	0.95	50	✓	✓	
↓ -006	↓	1.04	50	✓	✓	
↓ -007	↓	1.07	50	✓	✓	
↓ -008	C	0.95	50	✓	✓	
274289-001	B	1.02	50	✓	✓	
			50			
			50			
			50			
			50			
			50			
			50			
			50			
			50			
			50			

Balance ID: METALS PREP calibration has been checked?  Yes  No

Reagent ID or LIMS # Initials / Date

SCP Digestion tubes / ESS Watch glass, lot#  
 Blank 'matrix' lot#

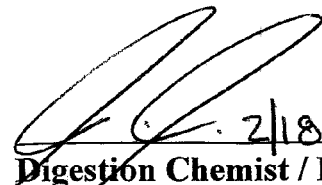
0.50 mL of spike solution (Std1) was added to all spikes  
 0.50 mL of spike solution (Std2) was added to all spikes  
 0.50 mL of spike solution (Std3) was added to all spikes

Pipettes

Vol.(mL)	ID
0.50	N27150D
1.50	Z016708

Digestion Block ID, Probe Location  
 Temperature (°C), Thermometer ID  
 1:1 HNO3 Reagent ID  
 concentrated HNO3 lot#  
 3mL 30% hydrogen peroxide lot#  
 concentrated HCl lot#  
 filtered thru' Whatman 541, lot#  
 Relinquished to ICP group

220264	1504103-5323-04	RFC	2/18/19
R236-5K013			
S29104			
S29105			
S28732			
TETON	15		
94°	SNM14669		
JTB124259			
JTB124259			
FS1539T2			
FS4115080			
WHAT9693346			
ICP			

  
 2/18/19  
 Digestion Chemist / Date

Continued from page 8  
 Continued on page \_\_\_\_\_

Reviewed Online/ See LIMS

Laboratory Job Number 274127

ANALYTICAL REPORT

Wet Chemistry

Matrix: Soil



Percent Moisture Summary Report

Batch: 232094  
 Date: 02/16/16  
 Method: CLP SOW 390  
 Analyst: MFV

Sample	Tare (g)	Wet (g)	Dry (g)	Percent Solids	Percent Moisture
274127-003	11.0699	16.9871	15.7858	80	20
274127-005	11.4143	16.6892	15.4888	77	23
274127-007	11.0633	17.2344	16.0279	80	20
274127-008	11.1685	17.3008	16.8708	93	7
274127-012	11.3764	17.4208	15.3918	66	34
274127-016	11.3533	17.5441	16.4563	82	18
274127-019	10.9791	17.3773	14.2452	51	49
274127-022	11.3336	18.2287	16.2236	71	29
274127-024	11.3514	16.8362	15.8987	83	17
274127-032	11.3621	18.2382	16.6127	76	24
274127-040	11.0524	17.7667	16.4724	81	19
QC823401	10.8935	16.2120	15.2540	82	18
of 274127-040			RPD:	1.6%	6.8%



DATE	ANALYST	0.2000	100.0000	SET#
12-23-15	MN	0.2000	99.9999	9907
12-28-15	MN	0.2001	99.9995	9907
12-29-15	MN	0.2001	99.9995	9907
1-5-16	MN	0.2000	99.9997	9907
1-6-16	MN	0.2000	99.9997	9907
1-7-16	MN	0.2000	99.9996	9907
1-8-16	DOB	0.2000	99.9994	9907
1-9-16	MN	0.2000	99.9995	9907
1-12-16	MN	0.2001	99.9999	9907
1-13-16	MN	0.2000	99.9997	9907
1-14-16	MN	0.2000	99.9998	9907
1-18-16	VV	0.2000	99.9997	9907
1-20-16	VV	0.2002	100.0004	9907
1-21-16	VV	0.2000	100.0003	9907
1-24-16	VV	0.2000	99.9991	9907
1-25-16	VV	0.2000	99.9996	9907
1-26-16	VV	0.2000	99.9996	9907
1-27-16	DOB	0.2000	99.9995	9907
1-28-16	DOB	0.2002	99.9992	9907
1-29-16	VV	0.2000	100.0001	9907
1-31-16	VV	0.2001	99.9996	9907
02/01/16	VV	0.1998	99.9994	9907
02/02/16	VV	0.2003	100.0006	9907
02/03/16	VV	0.2001	100.0002	9907
02/04/16	VV	0.2000	99.9999	9907
02/08/16	VV	0.2000	100.0000	9907
2-9-16	MN	0.2000	99.9999	9907
2-11-16	MN	0.2000	99.9999	9907
2-12-16	DOB	0.2000	100.0001	9907
2-13-16	MN	0.2000	100.0001	9907
2-14-16	MN	0.2000	100.0001	9907
2-15-16	MN	0.2000	100.0001	9907
2-16-16	MN	0.2001	100.0000	9907

Continued on Page

Read and Understood By

Signed

Date

Signed

Date

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