

# **INFORMATION HANDOUT**

**For Contract No. 03-3F1804**

**At 03-Sac-5, 99-VAR**

**Identified by**

**Project ID 0312000098**

## **MATERIALS INFORMATION**

Water Source Information

Aerially Deposited Lead Site Investigation Report

Stockpile Locations

Mr. T Chris Johnson  
District Landscape Architect  
State of California, Department of Transportation  
703 B Street  
Marysville, CA 95901

RE: Request for Construction Water for Projects 3-4M720, 03-3F108, and 03-3F170

Recently the City of Sacramento Department of Utilities received requests from your office to provide a specified volume of water to support several construction projects. Specifically, these projects were identified by contract numbers 3-4M720, 03-3F108, and 03-3F170.

While the City of Sacramento has currently adopted a stage 2 water shortage contingency plan, there is no overreaching prohibition on use of water to support construction projects. Specific types of water uses are prohibited that have been identified a non-productive use of potable water. Please go to our website at: <http://portal.cityofsacramento.org/Utilities/Conservation> to learn more about our water conservation program, and the current stage of our Water Shortage Contingency Plan.

Access to construction water is provided by securing a permit. There are multiple methods, such as a hydrant permit, or a water truck permit. Please go to the following web site to view the current fee schedule: <http://portal.cityofsacramento.org/Online-Services/FeeChargeSearch>

Permits may be acquired at the department's customer service desk, which is located at 1395 35<sup>th</sup> Avenue, Sacramento, CA 95822.

Respectfully,

Brett Ewart

CC: Sarju Patel, P.E.

# AERIALLY DEPOSITED LEAD SITE INVESTIGATION REPORT



## Interstate 5 (03-SAC-5) Gore Paving Sacramento County, California

**PREPARED FOR:**

**CALIFORNIA DEPARTMENT OF TRANSPORTATION – DISTRICT 3  
ENVIRONMENTAL ENGINEERING OFFICE  
703 B STREET  
MARYSVILLE, CALIFORNIA 95901**



**PREPARED BY:**

**GEOCON CONSULTANTS, INC.  
3160 GOLD VALLEY DRIVE, SUITE 800  
RANCHO CORDOVA, CALIFORNIA 95742**



**GEOCON PROJECT NO. S9805-01-26  
TASK ORDER NO. 26, EA 03-3F1801  
E-FIS 03-1200 0098-1**

**JUNE 2014**

# GEOCON

CONSULTANTS, INC.

G E O T E C H N I C A L ■ E N V I R O N M E N T A L ■ M A T E R I A L S



Project No. S9805-01-26  
June 10, 2014

Ms. Alicia Beyer  
California Department of Transportation – District 3  
Environmental Engineering Office  
703 B Street  
Marysville, California 95901

Subject: AERIALY DEPOSITED LEAD SITE INVESTIGATION REPORT  
INTERSTATE 5 (03-SAC-5) GORE PAVING  
SACRAMENTO, CALIFORNIA  
CONTRACT NO. 03A2132, TASK ORDER NO. 26  
EA 03-3F1801, E-FIS 03-1200 0098-1

Dear Ms. Beyer:

In accordance with California Department of Transportation (Caltrans) Contract No. 03A2132, Task Order No. 26, and Expense Authorization 03-3F1801, E-FIS 03-1200 0098-1, we have performed environmental engineering services at the project site. The Site consists of Caltrans right-of-way along Interstate 5 (I-5) from Garden Highway to the I-5/Highway 99 junction in Sacramento, California. The accompanying report summarizes the services performed including the advancement of 19 direct-push borings for the collection of soil samples for aerially deposited lead analyses.

*The contents of this report reflect the views of the author, who is responsible for the facts and accuracy of the data presented herein. The contents do not necessarily reflect the official views or policies of the State of California or the Federal Highway Administration. This report does not constitute a standard, specification, or regulation.*

Please contact us if you have any questions concerning the contents of this report or if we may be of further service.

Sincerely,

GEOCON CONSULTANTS, INC.

Gemma G. Reblando  
Project Geologist

John E. Juhrend, PE, CEG  
Principal/Senior Engineer



(3 + 2 CD) Addressee

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# **AERIALY DEPOSITED LEAD SITE INVESTIGATION REPORT**

## **1.0 INTRODUCTION**

This Aerially Deposited Lead (ADL) Site Investigation Report for the Interstate 5 (I-5) Gore Paving project was prepared under California Department of Transportation (Caltrans) Contract No. 03A2132, Task Order (TO) No. 26, and Expense Authorization (EA) 03-3F1801, E-FIS 03-1200 0098-1.

### **1.1 Project Description and Proposed Improvements**

The project areas consist of Caltrans right-of-way along the northbound (NB) and southbound (SB) shoulders and ramps of I-5 from Garden Highway to the I-5/Highway 99 junction (the Site) in Sacramento, California. Caltrans proposes roadway improvements along the I-5 ramps at nine designated locations from the Garden Highway ramps to the I-5/Highway 99 connectors including paving of gore points for Caltrans maintenance safety. The approximate project location is depicted on the Vicinity Map, Figure 1, and Site Plans, Figures 2-1 through 2-3.

### **1.2 General Objectives**

The purpose of the scope of services outlined in TO No. 26 was to evaluate the nine designated gore points at four locations for potential impacts due to ADL from motor vehicle exhaust in the surface and near-surface soils. The project will generate excess soil requiring disposal from a planned excavation depth of 1.4 and 1.5 feet. The investigative results will be used by Caltrans to inform the construction contractors if ADL-impacted soils are present within the project boundaries for construction worker health and safety, soil reuse evaluation and waste management/disposal purposes.

## **2.0 BACKGROUND**

Regulatory criteria to classify a waste as “California hazardous” for handling and disposal purposes are contained in the California Code of Regulations (CCR), Title 22, Division 4.5, Chapter 11, Article 3, § 66261.24. Criteria to classify a waste as “Resource, Conservation, and Recovery Act (RCRA) hazardous” are contained in Chapter 40 of the Code of Federal Regulations (40 CFR), Section 261.

### **2.1 Potential Lead Soil Impacts**

Ongoing testing by Caltrans has indicated that ADL exists along major freeway routes due to emissions from vehicles powered by leaded gasoline.

### **2.2 Hazardous Waste Determination Criteria**

For waste containing metals, the waste is classified as California hazardous when: 1) the representative total metal content equals or exceeds the respective Total Threshold Limit Concentration (TTLC); or 2) the representative soluble metal content equals or exceeds the respective Soluble Threshold Limit Concentration (STLC) based on the standard Waste Extraction Test (WET). A waste may have the

potential of exceeding the STLC when the waste's total metal content is greater than or equal to ten times the respective STLC value, since the WET uses a 1:10 dilution ratio. Hence, when a total metal is detected at a concentration greater than or equal to ten times the respective STLC, and assuming that 100 percent of the total metals are soluble, soluble metal analysis is required. A material is classified as RCRA hazardous, or Federal hazardous, when the representative soluble metal content equals or exceeds the Federal regulatory level based on the Toxicity Characteristic Leaching Procedure (TCLP). The TTLC value for lead is 1,000 milligrams per kilogram (mg/kg). The STLC and TCLP values for lead are both 5.0 milligrams per liter (mg/l).

The above regulatory criteria are based on chemical concentrations. Wastes may also be classified as hazardous based on other criteria such as ignitability and corrosivity; however, for the purposes of this investigation, toxicity (i.e., representative lead concentrations) is the primary factor considered for waste classification since waste generated during the construction activities would not likely warrant testing for ignitability or corrosivity. Waste that is classified as either California-hazardous or RCRA-hazardous requires management as a hazardous waste.

The Department of Toxic Substances Control (DTSC) regulates and interprets hazardous waste laws in California. DTSC generally considers excavated or transported materials that exhibit "hazardous waste" characteristics to be a 'waste' requiring proper management, treatment and disposal. Soil that contains lead above hazardous waste thresholds and is left in-place would not be necessarily classified by DTSC as a 'waste.' The DTSC has provided site-specific determinations that "movement of wastes within an area of contamination does not constitute 'land disposal' and, thus, does not trigger hazardous waste disposal requirements." Therefore, lead-impacted soil that is scarified in-place, moisture-conditioned, and recompacted during roadway improvement activities might not be considered a 'waste.' DTSC should be consulted to confirm waste classification. It is noted that in addition to DTSC regulations, health and safety requirements and other local agency requirements may also apply to the handling and disposal of lead-impacted soil.

### **3.0 SCOPE OF SERVICES**

The scope of services requested by Caltrans in TO No. 26 included the collection of soil samples for analysis to determine lead content and the preparation of this report.

#### **3.1 Pre-field Activities**

- Conducted a pre-work site meeting on May 7, 2014. Caltrans TO Manager Alicia Beyer and Geocon representative Gemma Reblando attended this meeting to observe the project boundaries and conditions. The project limits were further outlined in white paint for subsequent utility clearance.
- Prepared a *Health and Safety Plan* dated May 2014 to provide guidelines on the use of personal protective equipment and the health and safety procedures implemented during the field activities.

- Provided a minimum 48-hour notification to Underground Service Alert (Ticket Nos. 179453, 179472, 179487, 179505, 179545, 179564, 179591, 179652, and 179624) prior to job site mobilization.
- Retained the services of Advanced Technologies Laboratories (ATL), a Caltrans-approved and California-certified analytical laboratory, to perform the chemical analyses of soil samples.

### 3.2 Field Activities

On May 13, 2014, we advanced 19 direct-push borings to an approximate sampling depth of 3.0 feet at nine gore points along NB and SB I-5. Soil samples were collected at depth intervals of 0.0 to 0.5 foot, 0.5 to 1.0 foot, 1.0 to 2.0 feet, and 2.0 to 3.0 feet. The nine gore points are described below:

Gore Point	Work Area	No. of Borings	No. of Samples
1	South end gore point at the NB I-5 slip onramp at Garden Highway	2	8
2	North end gore point at the NB I-5 slip onramp at Garden Highway	2	8
3	Gore point between NB I-5 shoulder and loop offramp at Garden Highway	2	8
4	South end gore point at the NB I-5 slip offramp at W. El Camino Avenue	2	8
5	South end gore point of NB I-5 connector to NB Highway 99	2	8
6	West end gore point of NB I-5 connector from SB Highway 99	2	8
7	South end gore point of SB I-5 connector from SB Highway 99	3	12
8	South end gore point at the SB I-5 slip onramp at W. El Camino Avenue	2	8
9	South end gore point at the SB I-5 slip offramp at Garden Highway	2	8

The sample locations were selected in the field by the Caltrans Task Order Manager. Following sample collection, the borings were backfilled with the excess soil cuttings. Details of the field activities are presented in the following sections.

## 4.0 INVESTIGATIVE METHODS

### 4.1 Soil Sampling Procedures

A total of 76 soil samples were collected from 19 borings excavated at the Site. Soil samples obtained from the borings were collected in cellulose thermoplastic (acetate) liners driven by the direct-push rig. The acetate liners were cut to separate the sample by depth, then the sample from a particular interval was opened and the soil sample was transferred to a Ziploc<sup>®</sup> re-sealable plastic bag. The soil samples were field homogenized within the sample bags and subsequently labeled, placed in an ice chest, and delivered to ATL for analytical testing under chain-of-custody (COC) documentation.

The coordinates of the boring locations were determined using a differential global positioning system (GPS). The GPS was utilized during the field activities to locate the horizontal position of the boring locations with an error of no more than 3.3 feet. The latitude and longitude of the boring locations are summarized in Table 1.

#### **4.2 Quality Assurance/Quality Control (QA/QC) Procedures**

QA/QC procedures were performed during the field exploration activities. These procedures included the decontamination of sampling equipment before each sample was collected and providing COC documentation for each sample submitted to the laboratories. The soil sampling equipment was cleansed between each boring by washing the equipment with an Alconox<sup>®</sup> solution followed by a double rinse with deionized water. The decontamination water was discharged to the ground surface within the Caltrans right-of-way, away from the roadway and storm drain inlets.

#### **4.3 Laboratory Analyses**

The soil samples collected within the project boundaries were submitted to ATL for the following analyses under standard ten-day turnaround time (TAT). The laboratory was instructed to homogenize the soil samples prior to analysis in accordance with Contract 03A2132 requirements.

- Seventy-six soil samples were analyzed for total lead following United States Environmental Protection Agency (EPA) Test Method 6010B.
- Seven soil samples were further analyzed for WET soluble lead following EPA Test Method 6010B.
- Two soil samples were analyzed for TCLP soluble lead following EPA Test Method 6010B.

QA/QC procedures were performed by ATL as applicable for each method of analysis with specificity for each analyte listed in the test method's QA/QC. QA/QC measures for the various metals analyses included the following:

- One method blank for every ten samples, batch of samples or type of matrix, whichever was more frequent.
- One sample analyzed in duplicate for every ten samples, batch of samples or type of matrix, whichever was more frequent.
- One spiked sample for every ten samples, batch of samples or type of matrix, whichever was more frequent, with the spike made at ten times the reporting limit or at the analyte level.

Prior to submitting the soil samples to the laboratory, the COC documentation was reviewed for accuracy and completeness. Reproductions of the laboratory reports and COC documentation are presented in Appendix A.

## **5.0 FIELD OBSERVATIONS AND INVESTIGATIVE RESULTS**

### **5.1 Soil Conditions**

Soil encountered in the borings during the field sampling activities generally consisted of dark yellowish brown silt and sandy silt to the maximum sampling depth of 3.0 feet. No indicators (visual or olfactory) of apparent contamination were observed. Groundwater was not encountered in the soil borings.

### **5.2 Soil Analytical Results**

Total lead was detected in each of the 76 soil samples analyzed at concentrations ranging from 2.5 to 160 mg/kg. Seven of the 76 soil samples had total lead concentrations greater than 50 mg/kg (ten times the STLC value for lead of 5.0 mg/l) and were further analyzed for WET soluble lead.

WET soluble lead was reported for each of the seven samples analyzed at concentrations ranging from 2.1 to 11 mg/l. Three of the seven soil samples had WET soluble lead concentrations greater than the STLC value for lead of 5.0 mg/l.

TCLP soluble lead was reported for one of the two soil samples analyzed at 0.092 mg/l, less than the federal RCRA hazardous waste threshold for lead of 5.0 mg/l.

A summary of the ADL analytical results are presented on Table 2. Copies of the laboratory reports and COC documentation are presented in Appendix A.

### **5.3 Laboratory Quality Assurance/Quality Control**

We reviewed the laboratory QA/QC provided with the laboratory reports. The relative percent differences for sample duplicates were outside acceptance criteria for several samples. Calculation is based on raw values as noted in the laboratory report. Based on the laboratory QA/QC data, no additional qualification of the data presented herein is necessary, and the data are of sufficient quality for the purposes of this report.

### **5.4 Statistical Evaluation for Lead Detected in Soil Samples**

Statistical methods were applied to the total lead data for Gore Point 7 to evaluate the UCLs of the arithmetic means of the total lead concentrations. Statistical analysis was not performed for Gore Points 1, 2, 5, 6, 8, and 9 since the total lead concentrations are less than 50 mg/kg or the WET soluble lead concentrations are less than the STLC value for lead of 5.0 mg/l. Statistical analysis could not be performed for Gore Points 3 and 4 due to insufficient amount of data to calculate the UCLs.

#### **5.4.1 Calculating the UCLs for the Arithmetic Mean**

The upper one-sided 90% and 95% UCLs of the arithmetic mean are defined as the values that, when calculated repeatedly for randomly drawn subsets of site data, equal or exceed the true mean 90% and 95% of the time, respectively. Statistical confidence limits are the classical tool for addressing uncertainties of a distribution mean. The UCLs of the arithmetic mean concentration are used as the mean concentrations because it is not possible to know the true mean due to the essentially infinite number of soil samples that could be collected from a site. The UCLs therefore account for uncertainties due to limited sampling data. As data become less limited at a site, uncertainties decrease, and the UCLs move closer to the true mean.

Non-parametric bootstrap techniques were used to calculate the UCLs. The UCLs were calculated for Gore Point 7 using samples collected from the surface to depths of 1.0 foot, 2.0 feet, and 3.0 feet. The bootstrap results are in Appendix B. The calculated UCLs and statistical results are summarized in the following table:

**Gore Point 7**

SAMPLE INTERVAL (feet)	90% TOTAL LEAD UCL (mg/kg)	95% TOTAL LEAD UCL (mg/kg)	TOTAL LEAD MEAN (mg/kg)	MINIMUM VALUE (mg/kg)	MAXIMUM VALUE (mg/kg)
0.0 to 1.0	26.1	29.2	15.8	2.5	60
0.0 to 2.0	19.4	21.5	12.0	2.5	60
0.0 to 3.0	17.3	19.1	11.8	2.5	60

## 6.0 CONCLUSIONS AND RECOMMENDATIONS

Hazardous waste classification based on the 90% UCL is considered sufficient to satisfy a good faith effort as discussed in SW-846. Risk assessment characterization is typically based on the 95% UCL in accordance with the *Risk Assessment Guidance for Superfund (RAGS) Volume 1 Documentation for Exposure Assessment*. Per Caltrans, 90% UCLs are to be used to evaluate onsite reuse, and 95% UCLs are to be used to evaluate offsite reuse or disposal.

Based on the TCLP soluble lead result of less than 5.0 mg/l, soil generated at the Site will not require disposal as a RCRA hazardous waste. If soil within the project limits is scarified in-place, moisture-conditioned, and recompacted during roadway improvement activities, it may not be considered a 'waste.'

### 6.1 Gore Point 1 – Borings B1 and B2

Total lead concentrations ranged from 4.6 to 51 mg/kg with an average total lead concentration of 15.1 mg/kg. Soil excavated from the surface to a depth of 3.0 feet or shallower within this area as represented by borings B1 and B2 will not require special soil handling and disposal procedures based on lead content and can be reused or disposed of as non-hazardous soil since the total lead concentrations are less than 50 mg/kg (i.e., ten times the STLC value for lead of 5.0 mg/l) or the WET soluble lead concentration is less than the STLC value for lead of 5.0 mg/l.

### 6.2 Gore Point 2 – Borings B3 and B4

Total lead concentrations ranged from 4.9 to 110 mg/kg with an average total lead concentration of 26.3 mg/kg. Soil excavated from the surface to a depth of 3.0 feet or shallower within this area as represented by borings B3 and B4 will not require special soil handling and disposal procedures based on lead content and can be reused or disposed of as non-hazardous soil since the total lead concentrations are less than 50 mg/kg (i.e., ten times the STLC value for lead of 5.0 mg/l) or the WET soluble lead concentrations are less than the STLC value for lead of 5.0 mg/l.

### 6.3 Gore Point 3 – Borings B18 and B19

Total lead concentrations ranged from 4.2 to 160 mg/kg with an average total lead concentration of 38.6 mg/kg. WET soluble lead concentrations for the two samples analyzed were 4.3 and 11 mg/l. One of the two samples analyzed had a WET soluble lead concentration greater than the lead STLC of 5.0 mg/l. Soil generated from the planned excavation depth of 1.5 feet should be either (1) managed and disposed of as a California hazardous waste or (2) stockpiled and resampled to confirm waste classification in accordance with specific disposal facility acceptance criteria, if applicable.

#### **6.4 Gore Point 4 – Borings B5 and B6**

Total lead concentrations ranged from 5.0 to 63 mg/kg with an average total lead concentration of 26.0 mg/kg. WET soluble lead concentration for the only sample analyzed was 5.3 mg/l, greater than the lead STLC of 5.0 mg/l. Soil generated from the planned excavation depth of 1.5 feet should be either (1) managed and disposed of as a California hazardous waste or (2) stockpiled and resampled to confirm waste classification in accordance with specific disposal facility acceptance criteria, if applicable.

#### **6.5 Gore Point 5 – Borings B7 and B8**

Total lead concentrations ranged from 2.8 to 24 mg/kg with an average total lead concentration of 9.1 mg/kg. Soil excavated from the surface to a depth of 3.0 feet or shallower within this area as represented by borings B7 and B8 will not require special soil handling and disposal procedures based on lead content and can be reused or disposed of as non-hazardous soil since the total lead concentrations are less than 50 mg/kg (i.e., ten times the STLC value for lead of 5.0 mg/l).

#### **6.6 Gore Point 6 – Borings B9 and B10**

Total lead concentrations ranged from 3.4 to 12 mg/kg with an average total lead concentration of 7.3 mg/kg. Soil excavated to a depth of 3.0 feet or shallower within this area as represented by borings B9 and B10 will not require special soil handling and disposal procedures based on lead content and can be reused or disposed of as non-hazardous soil since the total lead concentrations are less than 50 mg/kg (i.e., ten times the STLC value for lead of 5.0 mg/l).

#### **6.7 Gore Point 7 – Borings B11 through B13**

Total lead concentrations ranged from 2.5 to 60 mg/kg with an average total lead concentration of 11.8 mg/kg. Soil excavated from the top 1.0 to 3.0 feet within this area as represented by borings B11 through and B13 will not require special soil handling and disposal procedures based on lead content and can be reused or disposed of as non-hazardous soil since the calculated total lead 90% and 95% UCLs are less than 50 mg/kg (i.e., ten times the STLC value for lead of 5.0 mg/l).

#### **6.8 Gore Point 8 – Borings B14 and B15**

Total lead concentrations ranged from 4.0 to 27 mg/kg with an average total lead concentration of 8.7 mg/kg. Soil excavated from the surface to a depth of 3.0 feet or shallower within this area as represented by borings B14 and B15 will not require special soil handling and disposal procedures based on lead content and can be reused or disposed of as non-hazardous soil since the total lead concentrations are less than 50 mg/kg (i.e., ten times the STLC value for lead of 5.0 mg/l).

## **6.9 Gore Point 9 – Borings B16 and B17**

Total lead concentrations ranged from 3.5 to 28 mg/kg with an average total lead concentration of 8.4 mg/kg. Soil excavated from the surface to a depth of 3.0 feet or shallower within this area as represented by borings B16 and B17 will not require special soil handling and disposal procedures based on lead content and can be reused or disposed of as non-hazardous soil since the total lead concentrations are less than 50 mg/kg (i.e., ten times the STLC value for lead of 5.0 mg/l).

## **6.10 Lead Worker Protection**

The contractor(s) should prepare a project-specific Lead Compliance Plan (CCR Title 8, § 1532.1, the “Lead in Construction” standard) to minimize worker exposure to lead-impacted soil. The plan should include protocols for environmental and personnel monitoring, requirements for personal protective equipment, and other health and safety protocols and procedures for the handling of lead-impacted soil.

## **7.0 REPORT LIMITATIONS**

This report has been prepared exclusively for Caltrans. The information contained herein is only valid as of the date of the report and will require an update to reflect additional information obtained.

This report is not a comprehensive site characterization and should not be construed as such. The findings as presented in this report are predicated on the results of the limited sampling and laboratory testing performed. In addition, the information obtained is not intended to address potential impacts related to sources other than those specified herein. Therefore, the report should be deemed conclusive with respect to only the information obtained. We make no warranty, express or implied, with respect to the content of this report or any subsequent reports, correspondence or consultation. We strived to perform the services summarized herein in accordance with the local standard of care in the geographic region at the time the services were rendered.



**GEOCON**  
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**Interstate 5 – Gore Paving**

Sacramento County,  
California

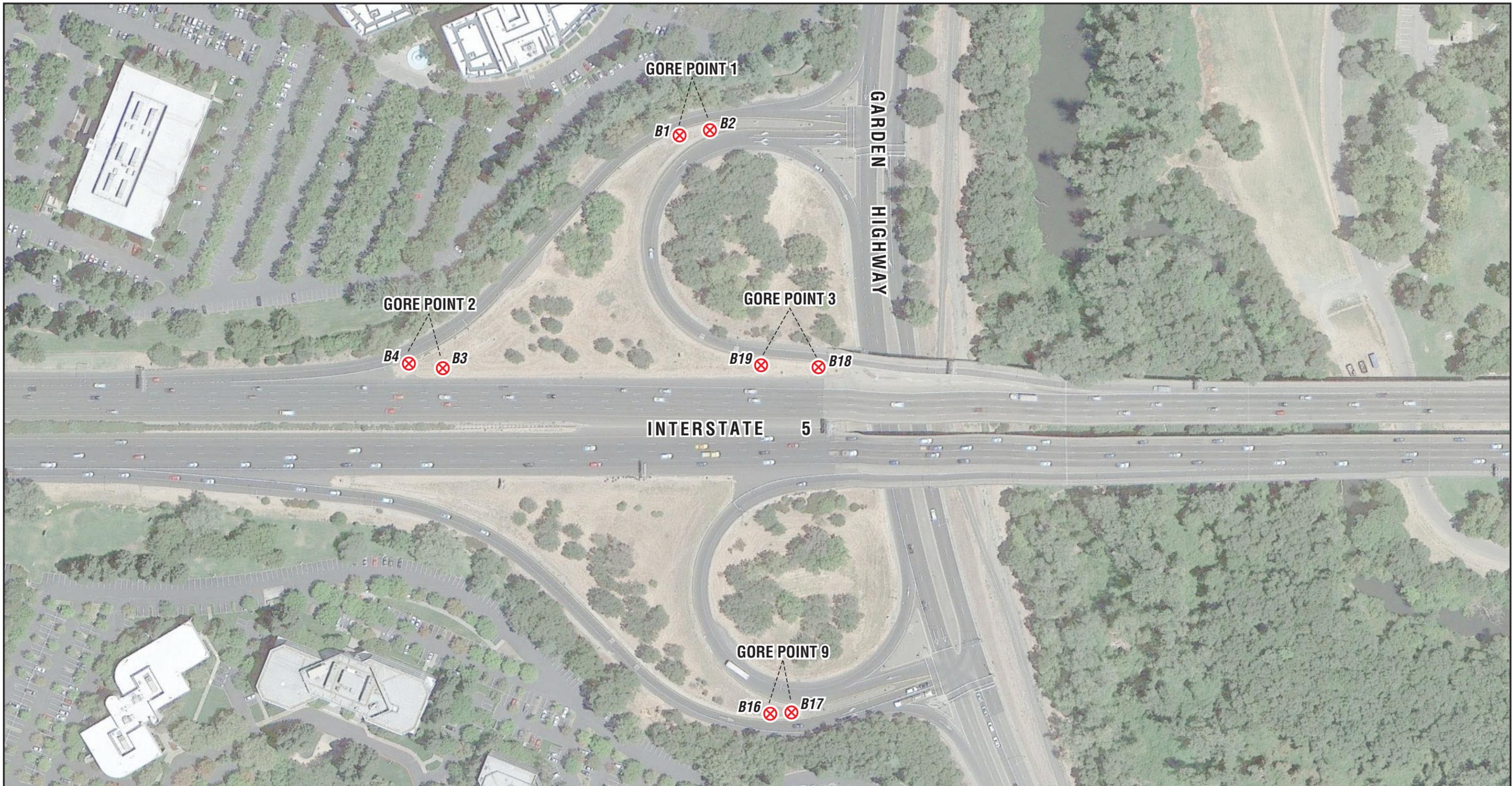
**VICINITY MAP**

GEOCON Proj. No. S9805-01-26

Task Order No. 26

June 2014

Figure 1



LEGEND:

**B19** ⊗ Approximate Boring Location (Caltrans Landscape Layout Plan - LL-4)



0 150  
Scale in Feet

**GEOCON**  
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Interstate 5 – Gore Paving		
Sacramento County, California		<b>SITE PLAN</b>
GEOCON Proj. No. S9805-01-26		June 2014
Task Order No. 26		
		Figure 2-1



LEGEND:

**B15** ⊗ Approximate Boring Location (Caltrans Landscape Layout Plan - LL-5)



0 100  
Scale in Feet



**GEOCON**  
CONSULTANTS, INC.

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Interstate 5 – Gore Paving

Sacramento County,  
California

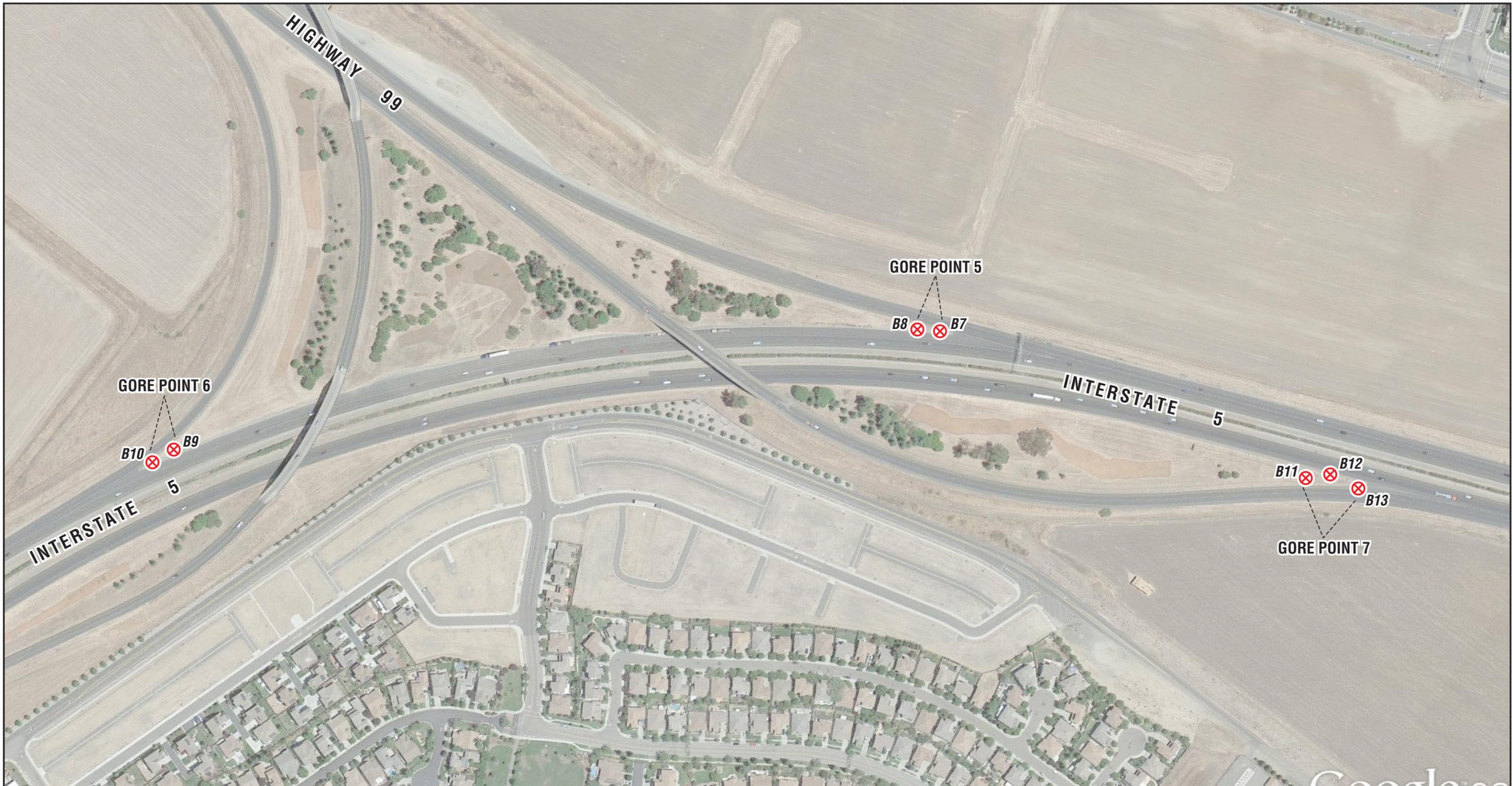
**SITE PLAN**

GEOCON Proj. No. S9805-01-26

Task Order No. 26

June 2014

Figure 2-2



LEGEND:

**B13** ⊗ Approximate Boring Location (Caltrans Landscape Layout Plans - LL-6 and LL-8)



0 250  
Scale in Feet

**GEOCON**  
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Interstate 5 – Gore Paving		
Sacramento County, California		<b>SITE PLAN</b>
GEOCON Proj. No. S9805-01-26		
Task Order No. 26	June 2014	Figure 2-3

TABLE 1  
SUMMARY OF SOIL BORING COORDINATES  
EA 03-3F1801  
INTERSTATE 5 (03-SAC-5) POST MILE 25.3 TO 26.0  
SACRAMENTO COUNTY, CALIFORNIA

BORING ID	SAMPLE DATE	LATITUDE	LONGITUDE
B1	05/13/14	38.607511718	-121.506796137
B2	05/13/14	38.607627167	-121.506890398
B3	05/13/14	38.608202856	-121.508585794
B4	05/13/14	38.608349281	-121.508627499
B5	05/13/14	38.612693257	-121.510938860
B6	05/13/14	38.612829835	-121.510977633
B7	05/13/14	38.666211901	-121.538654994
B8	05/13/14	38.666350753	-121.538770216
B9	05/13/14	38.670111303	-121.543929533
B10	05/13/14	38.670185110	-121.544147187
B11	05/13/14	38.663439932	-121.537638777
B12	05/13/14	38.663312898	-121.537470706
B13	05/13/14	38.663075221	-121.537422212
B14	05/13/14	38.613906545	-121.512327935
B15	05/13/14	38.613720553	-121.512184727
B16	05/13/14	38.606320389	-121.509685683
B17	05/13/14	38.606235880	-121.509636063
B18	05/13/14	38.606687765	-121.507798926
B19	05/13/14	38.606922701	-121.507910105

TABLE 2  
SUMMARY OF SOIL ANALYTICAL RESULTS - LEAD  
EA 03-3F1801  
INTERSTATE 5 (03-SAC-5) POST MILE 25.3 TO 26.0  
SACRAMENTO COUNTY, CALIFORNIA

SAMPLE ID	SAMPLE DEPTH (feet)	TOTAL LEAD (mg/kg)	WET LEAD (mg/l)	TCLP LEAD (mg/l)
<b>GORE POINT 1 - NB I-5 south end of slip onramp at Garden Highway</b>				
B1-0.0	0.0	51	3.7	---
B1-0.6	0.6	7.3	---	---
B1-1.0	1.0	5.4	---	---
B1-2.0	2.0	12	---	---
B2-0.0	0.0	29	---	---
B2-0.6	0.6	6.4	---	---
B2-1.0	1.0	5.3	---	---
B2-2.0	2.0	4.6	---	---
<b>GORE POINT 2 - NB I-5 north end of slip onramp at Garden Highway</b>				
B3-0.0	0.0	110	4.7	<0.050
B3-0.6	0.6	19	---	---
B3-1.0	1.0	5.3	---	---
B3-2.0	2.0	4.9	---	---
B4-0.0	0.0	53	2.1	---
B4-0.6	0.6	6.2	---	---
B4-1.0	1.0	5.6	---	---
B4-2.0	2.0	6.7	---	---
<b>GORE POINT 3 - NB I-5 between shoulder and loop offramp at Garden Highway</b>				
B18-0.0	0.0	160	11	0.092
B18-0.6	0.6	48	---	---
B18-1.0	1.0	5.7	---	---
B18-2.0	2.0	4.2	---	---
B19-0.0	0.0	76	4.3	---
B19-0.6	0.6	5.9	---	---
B19-1.0	1.0	4.4	---	---
B19-2.0	2.0	4.6	---	---
<b>GORE POINT 4 - NB I-5 south end of slip offramp at W. El Camino Avenue</b>				
B5-0.0	0.0	47	---	---
B5-0.6	0.6	41	---	---
B5-1.0	1.0	5.1	---	---

TABLE 2  
SUMMARY OF SOIL ANALYTICAL RESULTS - LEAD  
EA 03-3F1801  
INTERSTATE 5 (03-SAC-5) POST MILE 25.3 TO 26.0  
SACRAMENTO COUNTY, CALIFORNIA

SAMPLE ID	SAMPLE DEPTH (feet)	TOTAL LEAD (mg/kg)	WET LEAD (mg/l)	TCLP LEAD (mg/l)
B5-2.0	2.0	5.3	---	---
B6-0.0	0.0	35	---	---
B6-0.6	0.6	63	5.3	---
B6-1.0	1.0	6.7	---	---
B6-2.0	2.0	5.0	---	---
<b>GORE POINT 5 - NB I-5 south end of connector to NB Highway 99</b>				
B7-0.0	0.0	5.6	---	---
B7-0.6	0.6	21	---	---
B7-1.0	1.0	5.1	---	---
B7-2.0	2.0	2.8	---	---
B8-0.0	0.0	24	---	---
B8-0.6	0.6	5.8	---	---
B8-1.0	1.0	3.7	---	---
B8-2.0	2.0	4.9	---	---
<b>GORE POINT 6 - NB I-5 west end of connector from SB Highway 99</b>				
B9-0.0	0.0	12	---	---
B9-0.6	0.6	9.5	---	---
B9-1.0	1.0	4.2	---	---
B9-2.0	2.0	3.4	---	---
B10-0.0	0.0	12	---	---
B10-0.6	0.6	6.4	---	---
B10-1.0	1.0	6.7	---	---
B10-2.0	2.0	3.8	---	---
<b>GORE POINT 7 - SB I-5 south end of connector from SB Highway 99</b>				
B11-0.0	0.0	11	---	---
B11-0.6	0.6	6.0	---	---
B11-1.0	1.0	5.8	---	---
B11-2.0	2.0	24	---	---
B12-0.0	0.0	60	8.1	---
B12-0.6	0.6	7.7	---	---

TABLE 2  
SUMMARY OF SOIL ANALYTICAL RESULTS - LEAD  
EA 03-3F1801  
INTERSTATE 5 (03-SAC-5) POST MILE 25.3 TO 26.0  
SACRAMENTO COUNTY, CALIFORNIA

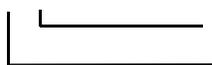
SAMPLE ID	SAMPLE DEPTH (feet)	TOTAL LEAD (mg/kg)	WET LEAD (mg/l)	TCLP LEAD (mg/l)
B12-1.0	1.0	4.9	---	---
B12-2.0	2.0	4.1	---	---
B13-0.0	0.0	7.3	---	---
B13-0.6	0.6	2.5	---	---
B13-1.0	1.0	3.0	---	---
B13-2.0	2.0	4.7	---	---
<b>GORE POINT 8 - SB I-5 south end of slip onramp at W. El Camino Avenue</b>				
B14-0.0	0.0	27	---	---
B14-0.6	0.6	7.7	---	---
B14-1.0	1.0	5.1	---	---
B14-2.0	2.0	4.0	---	---
B15-0.0	0.0	9.9	---	---
B15-0.6	0.6	5.1	---	---
B15-1.0	1.0	4.6	---	---
B15-2.0	2.0	6.3	---	---
<b>GORE POINT 9 - SB I-5 south end of slip offramp at Garden Highway</b>				
B16-0.0	0.0	12	---	---
B16-0.6	0.6	4.9	---	---
B16-1.0	1.0	5.2	---	---
B16-2.0	2.0	4.6	---	---
B17-0.0	0.0	28	---	---
B17-0.6	0.6	4.7	---	---
B17-1.0	1.0	4.5	---	---
B17-2.0	2.0	3.5	---	---

TABLE 2  
 SUMMARY OF SOIL ANALYTICAL RESULTS - LEAD  
 EA 03-3F1801  
 INTERSTATE 5 (03-SAC-5) POST MILE 25.3 TO 26.0  
 SACRAMENTO COUNTY, CALIFORNIA

SAMPLE ID	SAMPLE DEPTH (feet)	TOTAL LEAD (mg/kg)	WET LEAD (mg/l)	TCLP LEAD (mg/l)
-----------	------------------------	-----------------------	--------------------	---------------------

Notes:

B1-0.0



Top of sample depth interval in feet below ground surface

Boring location/identification

WET = Waste Extraction Test

TCLP = Toxicity Characteristic Leaching Procedure

NB = Northbound

SB = Southbound

mg/kg = Milligrams per kilogram

mg/l = Milligrams per liter

< = Less than the laboratory reporting limit

--- = Not analyzed

APPENDIX

A



May 21, 2014

Rebecca Silva  
Geocon Consultants, Inc.  
3160 Gold Valley Drive, Suite 800  
Rancho Cordova, CA 95742  
Tel: (916) 852-9118  
Fax: (916) 852-9132

ELAP No.: 1838  
CSDLAC No.: 10196  
ORELAP No.: CA300003  
TCEQ No. : T104704502

Re: ATL Work Order Number : 1401420  
Client Reference : I-5 Gores ADL, S9805-01-26

Enclosed are the results for sample(s) received on May 14, 2014 by Advanced Technology Laboratories. The sample(s) are tested for the parameters as indicated on the enclosed chain of custody in accordance with applicable laboratory certifications. The laboratory results contained in this report specifically pertains to the sample(s) submitted.

Thank you for the opportunity to serve the needs of your company. If you have any questions, please feel free to contact me or your Project Manager.

Sincerely,

A handwritten signature in black ink, appearing to read 'E. Rodriguez', is written over a light gray rectangular background.

Eddie Rodriguez  
Laboratory Director

The cover letter and the case narrative are an integral part of this analytical report and its absence renders the report invalid. Test results contained within this data package meet the requirements of applicable state-specific certification programs. The report cannot be reproduced without written permission from the client and Advanced Technology Laboratories.



## Certificate of Analysis

Geocon Consultants, Inc.  
3160 Gold Valley Drive, Suite 800  
Rancho Cordova , CA 95742

Project Number : I-5 Gores ADL, S9805-01-26  
Report To : Rebecca Silva  
Reported : 05/21/2014

### SUMMARY OF SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B3-0.0	1401420-01	Soil	5/13/14 9:30	5/14/14 8:05
B3-0.6	1401420-02	Soil	5/13/14 9:31	5/14/14 8:05
B3-1.0	1401420-03	Soil	5/13/14 9:32	5/14/14 8:05
B3-2.0	1401420-04	Soil	5/13/14 9:33	5/14/14 8:05
B4-0.0	1401420-05	Soil	5/13/14 9:35	5/14/14 8:05
B4-0.6	1401420-06	Soil	5/13/14 9:36	5/14/14 8:05
B4-1.0	1401420-07	Soil	5/13/14 9:37	5/14/14 8:05
B4-2.0	1401420-08	Soil	5/13/14 9:38	5/14/14 8:05
B5-0.0	1401420-09	Soil	5/13/14 9:45	5/14/14 8:05
B5-0.6	1401420-10	Soil	5/13/14 9:46	5/14/14 8:05
B5-1.0	1401420-11	Soil	5/13/14 9:47	5/14/14 8:05
B5-2.0	1401420-12	Soil	5/13/14 9:48	5/14/14 8:05
B6-0.0	1401420-13	Soil	5/13/14 9:50	5/14/14 8:05
B6-0.6	1401420-14	Soil	5/13/14 9:51	5/14/14 8:05
B6-1.0	1401420-15	Soil	5/13/14 9:52	5/14/14 8:05
B6-2.0	1401420-16	Soil	5/13/14 9:53	5/14/14 8:05
B7-0.0	1401420-17	Soil	5/13/14 10:05	5/14/14 8:05
B7-0.6	1401420-18	Soil	5/13/14 10:06	5/14/14 8:05
B7-1.0	1401420-19	Soil	5/13/14 10:07	5/14/14 8:05
B7-2.0	1401420-20	Soil	5/13/14 10:08	5/14/14 8:05
B8-0.0	1401420-21	Soil	5/13/14 10:10	5/14/14 8:05
B8-0.6	1401420-22	Soil	5/13/14 10:11	5/14/14 8:05
B8-1.0	1401420-23	Soil	5/13/14 10:12	5/14/14 8:05
B8-2.0	1401420-24	Soil	5/13/14 10:13	5/14/14 8:05
B9-0.0	1401420-25	Soil	5/13/14 10:25	5/14/14 8:05
B9-0.6	1401420-26	Soil	5/13/14 10:26	5/14/14 8:05
B9-1.0	1401420-27	Soil	5/13/14 10:27	5/14/14 8:05
B9-2.0	1401420-28	Soil	5/13/14 10:28	5/14/14 8:05
B10-0.0	1401420-29	Soil	5/13/14 10:30	5/14/14 8:05
B10-0.6	1401420-30	Soil	5/13/14 10:31	5/14/14 8:05
B10-1.0	1401420-31	Soil	5/13/14 10:32	5/14/14 8:05
B10-2.0	1401420-32	Soil	5/13/14 10:33	5/14/14 8:05
B11-0.0	1401420-33	Soil	5/13/14 10:50	5/14/14 8:05
B11-0.6	1401420-34	Soil	5/13/14 10:51	5/14/14 8:05



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3160 Gold Valley Drive, Suite 800

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Rancho Cordova , CA 95742

Reported : 05/21/2014

B11-1.0	1401420-35	Soil	5/13/14 10:52	5/14/14 8:05
B11-2.0	1401420-36	Soil	5/13/14 10:53	5/14/14 8:05
B12-0.0	1401420-37	Soil	5/13/14 10:55	5/14/14 8:05
B12-0.6	1401420-38	Soil	5/13/14 10:56	5/14/14 8:05
B12-1.0	1401420-39	Soil	5/13/14 10:57	5/14/14 8:05
B12-2.0	1401420-40	Soil	5/13/14 10:58	5/14/14 8:05
B13-0.0	1401420-41	Soil	5/13/14 11:00	5/14/14 8:05
B13-0.6	1401420-42	Soil	5/13/14 11:01	5/14/14 8:05
B13-1.0	1401420-43	Soil	5/13/14 11:02	5/14/14 8:05
B13-2.0	1401420-44	Soil	5/13/14 11:03	5/14/14 8:05
B14-0.0	1401420-45	Soil	5/13/14 11:15	5/14/14 8:05
B14-0.6	1401420-46	Soil	5/13/14 11:16	5/14/14 8:05
B14-1.0	1401420-47	Soil	5/13/14 11:17	5/14/14 8:05
B14-2.0	1401420-48	Soil	5/13/14 11:18	5/14/14 8:05
B15-0.0	1401420-49	Soil	5/13/14 11:20	5/14/14 8:05
B15-0.6	1401420-50	Soil	5/13/14 11:21	5/14/14 8:05
B15-1.0	1401420-51	Soil	5/13/14 11:22	5/14/14 8:05
B15-2.0	1401420-52	Soil	5/13/14 11:23	5/14/14 8:05
B16-0.0	1401420-53	Soil	5/13/14 11:30	5/14/14 8:05
B16-0.6	1401420-54	Soil	5/13/14 11:31	5/14/14 8:05
B16-1.0	1401420-55	Soil	5/13/14 11:32	5/14/14 8:05
B16-2.0	1401420-56	Soil	5/13/14 11:33	5/14/14 8:05
B17-0.0	1401420-57	Soil	5/13/14 11:40	5/14/14 8:05
B17-0.6	1401420-58	Soil	5/13/14 11:41	5/14/14 8:05
B17-1.0	1401420-59	Soil	5/13/14 11:42	5/14/14 8:05
B17-2.0	1401420-60	Soil	5/13/14 11:43	5/14/14 8:05
B18-0.0	1401420-61	Soil	5/13/14 11:50	5/14/14 8:05
B18-0.6	1401420-62	Soil	5/13/14 11:51	5/14/14 8:05
B18-1.0	1401420-63	Soil	5/13/14 11:52	5/14/14 8:05
B18-2.0	1401420-64	Soil	5/13/14 11:53	5/14/14 8:05
B19-0.0	1401420-65	Soil	5/13/14 11:55	5/14/14 8:05
B19-0.6	1401420-66	Soil	5/13/14 11:56	5/14/14 8:05
B19-1.0	1401420-67	Soil	5/13/14 11:57	5/14/14 8:05
B19-2.0	1401420-68	Soil	5/13/14 11:58	5/14/14 8:05
B1-0.0	1401420-69	Soil	5/13/14 12:05	5/14/14 8:05
B1-0.6	1401420-70	Soil	5/13/14 12:06	5/14/14 8:05
B1-1.0	1401420-71	Soil	5/13/14 12:07	5/14/14 8:05
B1-2.0	1401420-72	Soil	5/13/14 12:08	5/14/14 8:05
B2-0.0	1401420-73	Soil	5/13/14 12:10	5/14/14 8:05



## Certificate of Analysis

Geocon Consultants, Inc.

3160 Gold Valley Drive, Suite 800

Rancho Cordova, CA 95742

Project Number : I-5 Gores ADL, S9805-01-26

Report To : Rebecca Silva

Reported : 05/21/2014

B2-0.6	1401420-74	Soil	5/13/14 12:11	5/14/14 8:05
B2-1.0	1401420-75	Soil	5/13/14 12:12	5/14/14 8:05
B2-2.0	1401420-76	Soil	5/13/14 12:13	5/14/14 8:05



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3160 Gold Valley Drive, Suite 800

Rancho Cordova, CA 95742

Project Number : I-5 Gores ADL, S9805-01-26

Report To : Rebecca Silva

Reported : 05/21/2014

### Lead by ICP-AES EPA 6010B

Analyte: Lead

Analyst: SB

Laboratory ID	Client Sample ID	Result	Units	PQL	MDL	Dilution	Batch	Prepared	Date/Time	
									Analyzed	Notes
1401420-01	B3-0.0	110	mg/kg	1.0	NA	1	B4E0380	05/19/2014	05/19/14 17:09	
1401420-02	B3-0.6	19	mg/kg	1.0	NA	1	B4E0380	05/19/2014	05/19/14 17:09	
1401420-03	B3-1.0	5.3	mg/kg	1.0	NA	1	B4E0380	05/19/2014	05/19/14 17:10	
1401420-04	B3-2.0	4.9	mg/kg	1.0	NA	1	B4E0380	05/19/2014	05/19/14 17:11	
1401420-05	B4-0.0	53	mg/kg	1.0	NA	1	B4E0380	05/19/2014	05/19/14 17:12	
1401420-06	B4-0.6	6.2	mg/kg	1.0	NA	1	B4E0380	05/19/2014	05/19/14 17:12	
1401420-07	B4-1.0	5.6	mg/kg	1.0	NA	1	B4E0380	05/19/2014	05/19/14 17:13	
1401420-08	B4-2.0	6.7	mg/kg	1.0	NA	1	B4E0380	05/19/2014	05/19/14 17:16	
1401420-09	B5-0.0	47	mg/kg	1.0	NA	1	B4E0380	05/19/2014	05/19/14 17:17	
1401420-10	B5-0.6	41	mg/kg	1.0	NA	1	B4E0380	05/19/2014	05/19/14 17:17	
1401420-11	B5-1.0	5.1	mg/kg	1.0	NA	1	B4E0380	05/19/2014	05/19/14 17:20	
1401420-12	B5-2.0	5.3	mg/kg	1.0	NA	1	B4E0380	05/19/2014	05/19/14 17:20	
1401420-13	B6-0.0	35	mg/kg	1.0	NA	1	B4E0380	05/19/2014	05/19/14 17:21	
1401420-14	B6-0.6	63	mg/kg	1.0	NA	1	B4E0380	05/19/2014	05/19/14 17:22	
1401420-15	B6-1.0	6.7	mg/kg	1.0	NA	1	B4E0380	05/19/2014	05/19/14 17:23	
1401420-16	B6-2.0	5.0	mg/kg	1.0	NA	1	B4E0380	05/19/2014	05/19/14 17:25	
1401420-17	B7-0.0	5.6	mg/kg	1.0	NA	1	B4E0380	05/19/2014	05/19/14 17:26	
1401420-18	B7-0.6	21	mg/kg	1.0	NA	1	B4E0380	05/19/2014	05/19/14 17:27	
1401420-19	B7-1.0	5.1	mg/kg	1.0	NA	1	B4E0380	05/19/2014	05/19/14 17:28	
1401420-20	B7-2.0	2.8	mg/kg	1.0	NA	1	B4E0380	05/19/2014	05/19/14 17:28	
1401420-21	B8-0.0	24	mg/kg	1.0	NA	1	B4E0381	05/19/2014	05/19/14 17:37	
1401420-22	B8-0.6	5.8	mg/kg	1.0	NA	1	B4E0381	05/19/2014	05/19/14 17:38	
1401420-23	B8-1.0	3.7	mg/kg	1.0	NA	1	B4E0381	05/19/2014	05/19/14 17:39	
1401420-24	B8-2.0	4.9	mg/kg	1.0	NA	1	B4E0381	05/19/2014	05/19/14 17:39	
1401420-25	B9-0.0	12	mg/kg	1.0	NA	1	B4E0381	05/19/2014	05/19/14 17:40	
1401420-26	B9-0.6	9.5	mg/kg	1.0	NA	1	B4E0381	05/19/2014	05/19/14 17:41	
1401420-27	B9-1.0	4.2	mg/kg	1.0	NA	1	B4E0381	05/19/2014	05/19/14 17:42	
1401420-28	B9-2.0	3.4	mg/kg	1.0	NA	1	B4E0381	05/19/2014	05/19/14 17:42	
1401420-29	B10-0.0	12	mg/kg	1.0	NA	1	B4E0381	05/19/2014	05/19/14 17:43	
1401420-30	B10-0.6	6.4	mg/kg	1.0	NA	1	B4E0381	05/19/2014	05/19/14 17:46	



## Certificate of Analysis

Geocon Consultants, Inc.

3160 Gold Valley Drive, Suite 800

Rancho Cordova, CA 95742

Project Number : I-5 Gores ADL, S9805-01-26

Report To : Rebecca Silva

Reported : 05/21/2014

### Lead by ICP-AES EPA 6010B

Analyte: Lead

Analyst: SB

Laboratory ID	Client Sample ID	Result	Units	PQL	MDL	Dilution	Batch	Prepared	Date/Time	
									Analyzed	Notes
1401420-31	B10-1.0	6.7	mg/kg	1.0	NA	1	B4E0381	05/19/2014	05/19/14 17:48	
1401420-32	B10-2.0	3.8	mg/kg	1.0	NA	1	B4E0381	05/19/2014	05/19/14 17:49	
1401420-33	B11-0.0	11	mg/kg	1.0	NA	1	B4E0381	05/19/2014	05/19/14 17:50	
1401420-34	B11-0.6	6.0	mg/kg	1.0	NA	1	B4E0381	05/19/2014	05/19/14 17:51	
1401420-35	B11-1.0	5.8	mg/kg	1.0	NA	1	B4E0381	05/19/2014	05/19/14 17:51	
1401420-36	B11-2.0	24	mg/kg	1.0	NA	1	B4E0381	05/19/2014	05/19/14 17:52	
1401420-37	B12-0.0	60	mg/kg	1.0	NA	1	B4E0381	05/19/2014	05/19/14 17:53	
1401420-38	B12-0.6	7.7	mg/kg	1.0	NA	1	B4E0381	05/19/2014	05/19/14 17:56	
1401420-39	B12-1.0	4.9	mg/kg	1.0	NA	1	B4E0381	05/19/2014	05/19/14 17:57	
1401420-40	B12-2.0	4.1	mg/kg	1.0	NA	1	B4E0381	05/19/2014	05/19/14 17:58	
1401420-41	B13-0.0	7.3	mg/kg	1.0	NA	1	B4E0382	05/19/2014	05/19/14 18:04	
1401420-42	B13-0.6	2.5	mg/kg	1.0	NA	1	B4E0382	05/19/2014	05/19/14 18:07	
1401420-43	B13-1.0	3.0	mg/kg	1.0	NA	1	B4E0382	05/19/2014	05/19/14 18:07	
1401420-44	B13-2.0	4.7	mg/kg	1.0	NA	1	B4E0382	05/19/2014	05/19/14 18:08	
1401420-45	B14-0.0	27	mg/kg	1.0	NA	1	B4E0382	05/19/2014	05/19/14 18:09	
1401420-46	B14-0.6	7.7	mg/kg	1.0	NA	1	B4E0382	05/19/2014	05/19/14 18:10	
1401420-47	B14-1.0	5.1	mg/kg	1.0	NA	1	B4E0382	05/19/2014	05/19/14 18:10	
1401420-48	B14-2.0	4.0	mg/kg	1.0	NA	1	B4E0382	05/19/2014	05/19/14 18:11	
1401420-49	B15-0.0	9.9	mg/kg	1.0	NA	1	B4E0382	05/19/2014	05/19/14 18:12	
1401420-50	B15-0.6	5.1	mg/kg	1.0	NA	1	B4E0382	05/19/2014	05/19/14 18:13	
1401420-51	B15-1.0	4.6	mg/kg	1.0	NA	1	B4E0382	05/19/2014	05/19/14 18:17	
1401420-52	B15-2.0	6.3	mg/kg	1.0	NA	1	B4E0382	05/19/2014	05/19/14 18:18	
1401420-53	B16-0.0	12	mg/kg	1.0	NA	1	B4E0382	05/19/2014	05/19/14 18:19	
1401420-54	B16-0.6	4.9	mg/kg	1.0	NA	1	B4E0382	05/19/2014	05/19/14 18:19	
1401420-55	B16-1.0	5.2	mg/kg	1.0	NA	1	B4E0382	05/19/2014	05/19/14 18:20	
1401420-56	B16-2.0	4.6	mg/kg	1.0	NA	1	B4E0382	05/19/2014	05/19/14 18:21	
1401420-57	B17-0.0	28	mg/kg	1.0	NA	1	B4E0382	05/19/2014	05/19/14 18:22	
1401420-58	B17-0.6	4.7	mg/kg	1.0	NA	1	B4E0382	05/19/2014	05/19/14 18:22	
1401420-59	B17-1.0	4.5	mg/kg	1.0	NA	1	B4E0382	05/19/2014	05/19/14 18:23	
1401420-60	B17-2.0	3.5	mg/kg	1.0	NA	1	B4E0382	05/19/2014	05/19/14 18:26	



## Certificate of Analysis

Geocon Consultants, Inc.

3160 Gold Valley Drive, Suite 800

Rancho Cordova, CA 95742

Project Number : I-5 Gores ADL, S9805-01-26

Report To : Rebecca Silva

Reported : 05/21/2014

### Lead by ICP-AES EPA 6010B

Analyte: Lead

Analyst: SB

Laboratory ID	Client Sample ID	Result	Units	PQL	MDL	Dilution	Batch	Prepared	Date/Time	Notes
									Analyzed	
1401420-61	B18-0.0	160	mg/kg	1.0	NA	1	B4E0383	05/19/2014	05/19/14 18:33	
1401420-62	B18-0.6	48	mg/kg	1.0	NA	1	B4E0383	05/19/2014	05/19/14 18:34	
1401420-63	B18-1.0	5.7	mg/kg	1.0	NA	1	B4E0383	05/19/2014	05/19/14 18:37	
1401420-64	B18-2.0	4.2	mg/kg	1.0	NA	1	B4E0383	05/19/2014	05/19/14 18:38	
1401420-65	B19-0.0	76	mg/kg	1.0	NA	1	B4E0383	05/19/2014	05/19/14 18:38	
1401420-66	B19-0.6	5.9	mg/kg	1.0	NA	1	B4E0383	05/19/2014	05/19/14 18:39	
1401420-67	B19-1.0	4.4	mg/kg	1.0	NA	1	B4E0383	05/19/2014	05/19/14 18:40	
1401420-68	B19-2.0	4.6	mg/kg	1.0	NA	1	B4E0383	05/19/2014	05/19/14 18:41	
1401420-69	B1-0.0	51	mg/kg	1.0	NA	1	B4E0383	05/19/2014	05/19/14 18:41	
1401420-70	B1-0.6	7.3	mg/kg	1.0	NA	1	B4E0383	05/19/2014	05/19/14 18:42	
1401420-71	B1-1.0	5.4	mg/kg	1.0	NA	1	B4E0383	05/19/2014	05/19/14 18:47	
1401420-72	B1-2.0	12	mg/kg	1.0	NA	1	B4E0383	05/19/2014	05/19/14 18:48	
1401420-73	B2-0.0	29	mg/kg	1.0	NA	1	B4E0383	05/19/2014	05/19/14 18:49	
1401420-74	B2-0.6	6.4	mg/kg	1.0	NA	1	B4E0383	05/19/2014	05/19/14 18:49	
1401420-75	B2-1.0	5.3	mg/kg	1.0	NA	1	B4E0383	05/19/2014	05/19/14 18:50	
1401420-76	B2-2.0	4.6	mg/kg	1.0	NA	1	B4E0383	05/19/2014	05/19/14 18:51	



## Certificate of Analysis

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 3160 Gold Valley Drive, Suite 800  
 Rancho Cordova, CA 95742

Project Number : I-5 Gores ADL, S9805-01-26  
 Report To : Rebecca Silva  
 Reported : 05/21/2014

### QUALITY CONTROL SECTION

#### Lead by ICP-AES EPA 6010B - Quality Control

Analyte	Result (mg/kg)	PQL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
<b>Batch B4E0380 - EPA 3050 Modified</b>									
<b>Blank (B4E0380-BLK1)</b>					Prepared: 5/19/2014 Analyzed: 5/19/2014				
Lead	ND	1.0			NR				
<b>Blank (B4E0380-BLK2)</b>					Prepared: 5/19/2014 Analyzed: 5/19/2014				
Lead	ND	1.0			NR				
<b>LCS (B4E0380-BS1)</b>					Prepared: 5/19/2014 Analyzed: 5/19/2014				
Lead	51.2608	1.0	50.0000		103	80 - 120			
<b>Duplicate (B4E0380-DUP1)</b>					Prepared: 5/19/2014 Analyzed: 5/19/2014				
Lead	2.97434	1.0		2.76074	NR		7.45	20	
<b>Duplicate (B4E0380-DUP2)</b>					Prepared: 5/19/2014 Analyzed: 5/19/2014				
Lead	40.3228	1.0		41.3929	NR		2.62	20	
<b>Matrix Spike (B4E0380-MS1)</b>					Prepared: 5/19/2014 Analyzed: 5/19/2014				
Lead	161.491	1.0	250.000	2.76074	63.5	51 - 106			
<b>Matrix Spike (B4E0380-MS2)</b>					Prepared: 5/19/2014 Analyzed: 5/19/2014				
Lead	211.164	1.0	250.000	41.3929	67.9	51 - 106			
<b>Matrix Spike Dup (B4E0380-MSD1)</b>					Prepared: 5/19/2014 Analyzed: 5/19/2014				
Lead	151.418	1.0	250.000	2.76074	59.5	51 - 106	6.44	20	
<b>Batch B4E0381 - EPA 3050 Modified</b>									
<b>Blank (B4E0381-BLK1)</b>					Prepared: 5/19/2014 Analyzed: 5/19/2014				
Lead	ND	1.0			NR				
<b>Blank (B4E0381-BLK2)</b>					Prepared: 5/19/2014 Analyzed: 5/19/2014				
Lead	ND	1.0			NR				
<b>LCS (B4E0381-BS1)</b>					Prepared: 5/19/2014 Analyzed: 5/19/2014				
Lead	49.0362	1.0	50.0000		98.1	80 - 120			
<b>Duplicate (B4E0381-DUP1)</b>					Prepared: 5/19/2014 Analyzed: 5/19/2014				
Lead	5.13640	1.0		4.06642	NR		23.3	20	R
<b>Duplicate (B4E0381-DUP2)</b>					Prepared: 5/19/2014 Analyzed: 5/19/2014				
Lead	6.18450	1.0		6.36476	NR		2.87	20	
<b>Matrix Spike (B4E0381-MS1)</b>					Prepared: 5/19/2014 Analyzed: 5/19/2014				
Lead	201.503	1.0	250.000	4.06642	79.0	51 - 106			
<b>Matrix Spike (B4E0381-MS2)</b>					Prepared: 5/19/2014 Analyzed: 5/19/2014				
Lead	199.572	1.0	250.000	6.36476	77.3	51 - 106			



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 Reported : 05/21/2014

### Lead by ICP-AES EPA 6010B - Quality Control (cont'd)

Analyte	Result (mg/kg)	PQL (mg/kg)	Spike Level	Source Result	% Rec Limits	RPD	RPD Limit	Notes
<b>Batch B4E0381 - EPA 3050 Modified (continued)</b>								
<b>Matrix Spike Dup (B4E0381-MSD1)</b>		<b>Source: 1401420-40</b>			Prepared: 5/19/2014 Analyzed: 5/19/2014			
Lead	198.527	1.0	250.000	4.06642	77.8	51 - 106	1.49	20
<b>Batch B4E0382 - EPA 3050 Modified</b>								
<b>Blank (B4E0382-BLK1)</b>					Prepared: 5/19/2014 Analyzed: 5/19/2014			
Lead	ND	1.0			NR			
<b>Blank (B4E0382-BLK2)</b>					Prepared: 5/19/2014 Analyzed: 5/19/2014			
Lead	ND	1.0			NR			
<b>LCS (B4E0382-BS1)</b>					Prepared: 5/19/2014 Analyzed: 5/19/2014			
Lead	49.7553	1.0	50.0000		99.5	80 - 120		
<b>Duplicate (B4E0382-DUP1)</b>		<b>Source: 1401420-60</b>			Prepared: 5/19/2014 Analyzed: 5/19/2014			
Lead	4.33498	1.0		3.53647	NR		20.3	20 R
<b>Duplicate (B4E0382-DUP2)</b>		<b>Source: 1401420-50</b>			Prepared: 5/19/2014 Analyzed: 5/19/2014			
Lead	5.10736	1.0		5.12764	NR		0.396	20
<b>Matrix Spike (B4E0382-MS1)</b>		<b>Source: 1401420-60</b>			Prepared: 5/19/2014 Analyzed: 5/19/2014			
Lead	190.625	1.0	250.000	3.53647	74.8	51 - 106		
<b>Matrix Spike (B4E0382-MS2)</b>		<b>Source: 1401420-50</b>			Prepared: 5/19/2014 Analyzed: 5/19/2014			
Lead	202.415	1.0	250.000	5.12764	78.9	51 - 106		
<b>Matrix Spike Dup (B4E0382-MSD1)</b>		<b>Source: 1401420-60</b>			Prepared: 5/19/2014 Analyzed: 5/19/2014			
Lead	190.814	1.0	250.000	3.53647	74.9	51 - 106	0.0990	20
<b>Batch B4E0383 - EPA 3050 Modified</b>								
<b>Blank (B4E0383-BLK1)</b>					Prepared: 5/19/2014 Analyzed: 5/19/2014			
Lead	ND	1.0			NR			
<b>Blank (B4E0383-BLK2)</b>					Prepared: 5/19/2014 Analyzed: 5/19/2014			
Lead	ND	1.0			NR			
<b>LCS (B4E0383-BS1)</b>					Prepared: 5/19/2014 Analyzed: 5/19/2014			
Lead	49.9708	1.0	50.0000		99.9	80 - 120		
<b>Duplicate (B4E0383-DUP1)</b>		<b>Source: 1401420-76</b>			Prepared: 5/19/2014 Analyzed: 5/19/2014			
Lead	4.45228	1.0		4.57830	NR		2.79	20
<b>Duplicate (B4E0383-DUP2)</b>		<b>Source: 1401420-70</b>			Prepared: 5/19/2014 Analyzed: 5/19/2014			
Lead	6.84517	1.0		7.31886	NR		6.69	20
<b>Matrix Spike (B4E0383-MS1)</b>		<b>Source: 1401420-76</b>			Prepared: 5/19/2014 Analyzed: 5/19/2014			
Lead	183.668	1.0	250.000	4.57830	71.6	51 - 106		
<b>Matrix Spike (B4E0383-MS2)</b>		<b>Source: 1401420-70</b>			Prepared: 5/19/2014 Analyzed: 5/19/2014			
Lead	183.240	1.0	250.000	7.31886	70.4	51 - 106		



### Certificate of Analysis

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 Report To : Rebecca Silva  
 Reported : 05/21/2014

#### Lead by ICP-AES EPA 6010B - Quality Control (cont'd)

Analyte	Result (mg/kg)	PQL (mg/kg)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD	RPD Limit	Notes
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**Batch B4E0383 - EPA 3050 Modified (continued)****Matrix Spike Dup (B4E0383-MSD1)**

Source: 1401420-76

Prepared: 5/19/2014 Analyzed: 5/19/2014

Lead	188.190	1.0	250.000	4.57830	73.4	51 - 106	2.43	20	
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**Batch S4E0180 - B4E0380****Instrument Blank (S4E0180-IBL1)**

Prepared: 5/19/2014 Analyzed: 5/19/2014

Lead	ND	1.0			NR				
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## Certificate of Analysis

Geocon Consultants, Inc.

3160 Gold Valley Drive, Suite 800

Rancho Cordova, CA 95742

Project Number : I-5 Gores ADL, S9805-01-26

Report To : Rebecca Silva

Reported : 05/21/2014

### Notes and Definitions

R	RPD value outside acceptance criteria. Calculation is based on raw values.
ND	Analyte is not detected at or above the Practical Quantitation Limit (PQL). When client requests quantitation against MDL, analyte is not detected at or above the Method Detection Limit (MDL)
PQL	Practical Quantitation Limit
MDL	Method Detection Limit
NR	Not Reported
RPD	Relative Percent Difference
CA2	CA-ELAP (CDPH)
OR1	OR-NELAP (OSPHL)
TX1	TX-NELAP (TCEQ)

#### Notes:

- (1) The reported MDL and PQL are based on prep ratio variation and analytical dilution.
- (2) The suffix [2C] of specific analytes signifies that the reported result is taken from the instrument's second column.
- (3) Results are wet unless otherwise specified.

# CHAIN OF CUSTODY RECORD

 <p><b>Advanced Technology Laboratories</b> 3275 Walnut Avenue Signal Hill, CA 90755 Tel: (562) 989-4045 • Fax: (562) 989-4040</p>		<b>FOR LABORATORY USE ONLY</b>																																																																																																																																																																																																																																																																																																																																																																																		
		P.O. #: _____ Logged By: _____ Date: _____		Method of Transport Client <input type="checkbox"/> ATL <input type="checkbox"/> CA OverN <input type="checkbox"/> FedEx <input type="checkbox"/> Other: _____		Sample Condition Upon Receipt 1. CHILLED Y <input type="checkbox"/> N <input type="checkbox"/> 4. SEALED Y <input type="checkbox"/> N <input type="checkbox"/> 2. HEADSPACE (VOA) Y <input type="checkbox"/> N <input type="checkbox"/> 5. # OF SPLS MATCH COC Y <input type="checkbox"/> N <input type="checkbox"/> 3. CONTAINER INTACT Y <input type="checkbox"/> N <input type="checkbox"/> 6. PRESERVED Y <input type="checkbox"/> N <input type="checkbox"/>																																																																																																																																																																																																																																																																																																																																																																														
Client: Geocon Attention: Rebecca Silva			Address: 3160 Gold Valley Drive, Suite 800 City: Rancho Cordova State: CA Zip Code: 95742			Tel: 916-852-9118 Fax: 916-852-9132																																																																																																																																																																																																																																																																																																																																																																														
Project Name: I-5 Gores ADL Relinquished by: (Signature and Printed Name) Mike O'Brien		Project #: S9805-01-26 Date: 5/13/14 Time: 1500		Sampler: Mike O'Brien Received by: (Signature and Printed Name) [Signature]		Date: 5/13/14 Time: 1500																																																																																																																																																																																																																																																																																																																																																																														
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I hereby authorize ATL to perform the work indicated below. Project Mgr /Submitter: Rebecca Silva Print Name: _____ Date: 5/13/14 Signature: _____		Send Report To: Attn: _____ Co: _____ Addr: _____ City: _____ State: _____ Zip: _____		Bill To: Attn: _____ Co: _____ Addr: _____ City: _____ State: _____ Zip: _____		Special Instructions/Comments: Caltrans 03A2132 Homogenize samples for lead analysis. Please copy Kari Cook on the results and include an excel file. Thank you. (cook@geoconinc.com)																																																																																																																																																																																																																																																																																																																																																																														
Sample Records - Archival & Disposal Unless otherwise requested by client, all samples will be disposed 45 days after receipt and records will be disposed 1 year after submittal of final report. Storage Fees (applies when storage is requested): ■ Sample :\$2.00 / sample /mo (after 45 days) ■ Records: \$1 /ATL workorder /mo (after 1 year)				Circle or Add Analysis(es) Requested Total Lead (5010) Bid Item #67		SPECIFY APPROPRIATE MATRIX SOIL WATER GROUND WATER WASTEWATER TAT # Type 5-Day 1 baggie																																																																																																																																																																																																																																																																																																																																																																														
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# CHAIN OF CUSTODY RECORD



**Advanced Technology  
Laboratories**

3275 Walnut Avenue  
Signal Hill, CA 90755  
Tel: (562) 989-4045 • Fax: (562) 989-4040

### FOR LABORATORY USE ONLY

P.O. #: \_\_\_\_\_

Logged By: \_\_\_\_\_ Date: \_\_\_\_\_

Method of Transport: Client  ATL  CA OverN  FedEx  Other: \_\_\_\_\_

Sample Condition Upon Receipt: 1. CHILLED  2. HEADSPACE (VOA)  3. CONTAINER INTACT  4. SEALED  5. # OF SPLS MATCH COC  6. PRESERVED

Client: Geocoin Address: 3160 Gold Valley Drive, Suite 800 City: Rancho Cordova State: CA Zip Code: 95742

Attention: Rebecca Silva Tel: 916-852-9118 Fax: 916-852-9132

Project Name: I-5 Gores ADL Project #: S9805-01-26 Sampler: Mike O'Brien

Relinquished by: (Signature and Printed Name) Date: Time: Received by: (Signature and Printed Name) Date: Time:

Mike O'Brien 5/13/14 1500 OnTrac 5/13/14 1500

Relinquished by: (Signature and Printed Name) Date: Time: Received by: (Signature and Printed Name) Date: Time:

Relinquished by: (Signature and Printed Name) Date: Time: Received by: (Signature and Printed Name) Date: Time:

I hereby authorize ATL to perform the work indicated below:  
Project Mgr /Submitter: Rebecca Silva Date: 5/13/14

Send Report To: Attn: Co: Addr: City: State: Zip:

Bill To: Attn: Co: Addr: City: State: Zip:

Special Instructions/Comments:  
Caltrans 03A2132  
Homogenize samples for lead analysis.  
Please copy Kari Cook on the results and include an excel file. Thank you. (cook@geoconinc.com)

**Sample/Records Archival & Disposal**  
Unless otherwise requested by client, all samples will be disposed 45 days after receipt and records will be disposed 1 year after submittal of final report.

**Storage Fees (applies when storage is requested):**  
 ■ Sample: \$2.00 / sample /mo (after 45 days)  
 ■ Records: \$1 /ATL workorder /mo (after 1 year)

Circle or Add Analysis(es) Requested: \_\_\_\_\_

SPECIFY APPROPRIATE MATRIX: SOIL, WATER, GROUND WATER, WASTEWATER

Container(s): TAT # Type

QA/QC: RTNE  CT  SWRCB Logcode: \_\_\_\_\_ OTHER: \_\_\_\_\_

REMARKS: \_\_\_\_\_

ITEM	LAB USE ONLY:		Sample Description		Total Lead (60.0) Bid Item #67	SPECIFY APPROPRIATE MATRIX				TAT	Container(s)		REMARKS
	Lab No.	Sample ID / Location	Date	Time		SOIL	WATER	GROUND WATER	WASTEWATER		#	Type	
	N01424 -21	B8-0.0	5/13/14	1010	X				X	5-Day	1	baggie	
	-22	0.6		1011									
	-23	1.0		1012									
	-24	2.0		1013									
	-25	B9-0.0		1025									
	-26	0.6		1026									
	-27	1.0		1027									
	-28	2.0		1028									
	-29	B10-0.0		1030									
	-30	0.6		1031									
	-31	1.0		1032									
	-32	2.0		1033									
	-33	B11-0.0		1050									
	-34	0.6		1051									
	-35	1.0		1052									
	-36	2.0		1053									
	-37	B12-0.0		1055									
	-38	0.6		1056									
	-39	1.0		1057									
	-40	2.0		1058									

■ TAT starts 8AM the following day if samples received after 3 PM

TAT:  A = Overnight ≤ 24 hrs  B = Emergency Next Workday  C = Critical 2 Workdays  D = Urgent 3 Workdays  E = Routine 7 Workdays

Preservatives: H=HCl N=HNO<sub>3</sub> S=H<sub>2</sub>SO<sub>4</sub> C=4°C Z=Zn(AC)<sub>2</sub> O=NaOH T=Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub>

Container Types: T=Tube V=VOA L=Liter P=Pint J=Jar B=Tedlar G=Glass P=Plastic M=Metal

# CHAIN OF CUSTODY RECORD



**Advanced Technology Laboratories**  
3275 Walnut Avenue  
Signal Hill, CA 90755  
Tel: (562) 989-4045 • Fax: (562) 989-4040

**FOR LABORATORY USE ONLY**

P.O. #: _____	Method of Transport Client <input type="checkbox"/> ATL <input type="checkbox"/> CA OverN <input type="checkbox"/> FedEx <input type="checkbox"/> Other: _____	Sample Condition Upon Receipt 1. CHILLED Y <input type="checkbox"/> N <input type="checkbox"/> 4. SEALED Y <input type="checkbox"/> N <input type="checkbox"/> 2. HEADSPACE (VOA) Y <input type="checkbox"/> N <input type="checkbox"/> 5. # OF SPLS MATCH COC Y <input type="checkbox"/> N <input type="checkbox"/> 3. CONTAINER INTACT Y <input type="checkbox"/> N <input type="checkbox"/> 6. PRESERVED Y <input type="checkbox"/> N <input type="checkbox"/>
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Client: Geocon      Address: 3160 Gold Valley Drive, Suite 800      Tel: 916-852-9118  
Attention: Rebecca Silva      City: Rancho Cordova      State: CA      Zip Code: 95742      Fax: 916-852-9132

Project Name: I-5 Gores ADL      Project #: S9805-01-26      Sampler: Mike O'Brien (Signature)

Relinquished by: (Signature and Printed Name) Mike O'Brien	Date: 5/13/14	Time: 1500	Received by: (Signature and Printed Name) on Tral	Date: 5/13/14	Time: 1500
Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date: 6/11/14	Time: 8:01

I hereby authorize ATL to perform the work indicated below:  
Project Mgr /Submitter: Rebecca Silva (Signature) 5/13/14

Send Report To: Attn: \_\_\_\_\_ Co: \_\_\_\_\_ Addr: \_\_\_\_\_ City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_

Bill To: Attn: \_\_\_\_\_ Co: \_\_\_\_\_ Addr: \_\_\_\_\_ City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_

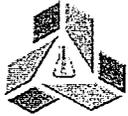
Special Instructions/Comments:  
Caltrans 03A2132  
Homogenize samples for lead analysis.  
Please copy Kari Cook on the results and include an excel file. Thank you. (cook@geoconinc.com)

**Sample/Records - Archival & Disposal**  
Unless otherwise requested by client, all samples will be disposed 45 days after receipt and records will be disposed 1 year after submittal of final report.  
Storage Fees (applies when storage is requested):  
■ Sample: \$2.00 / sample /mo (after 45 days)  
■ Records: \$1 /ATL workorder /mo (after 1 year)

ITEM	LAB USE ONLY:		Sample Description		Total Lead (GO) / Bid Item #67	SPECIFY APPROPRIATE MATRIX				TAT #	Type	Container(s)	REMARKS
	Lab No.	Sample ID / Location	Date	Time		SOIL	WATER	GROUND WATER	WASTEWATER				
	AD1420-41	B13-0.0	5/13/14	1100	X					5-Day	1	baggie	
	-42	0.6		1101									
	-43	1.0		1102									
	-44	2.0		1103									
	-45	B14-0.0		1115									
	-46	0.6		1116									
	-47	1.0		1117									
	-48	2.0		1118									
	-49	B15-0.0		1120									
	-50	0.6		1121									
	-51	1.0		1122									
	-52	2.0		1123									
	-53	B16-0.0		1130									
	-54	0.6		1131									
	-55	1.0		1132									
	-56	2.0		1133									
	-57	B17-0.0		1140									
	-58	0.6		1141									
	-59	1.0		1142									
	-60	2.0		1143									

TAT starts 8AM the following day if samples received after 3 PM  
 TAT:  A = Overnight ≤ 24 hrs     B = Emergency Next Workday     C = Critical 2 Workdays     D = Urgent 3 Workdays     E = Routine 7 Workdays  
 Preservatives: H=HCl N=HNO<sub>3</sub> S=H<sub>2</sub>SO<sub>4</sub> C=4°C  
 Z=Zn(AC)<sub>2</sub> O=NaOH T=Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub>  
 Container Types: T=Tube V=VOA L=Liter P=Pint J=Jar B=Tedlar G=Glass P=Plastic M=Metal

# CHAIN OF CUSTODY RECORD



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Laboratories**

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Signal Hill, CA 90755  
Tel: (562) 989-4045 • Fax: (562) 989-4040

**FOR LABORATORY USE ONLY**

P.O. #: _____	Method of Transport Client <input type="checkbox"/> ATL <input type="checkbox"/> CA OverN <input type="checkbox"/> FedEx <input type="checkbox"/> Other: _____	Sample Condition Upon Receipt 1. CHILLED Y <input type="checkbox"/> N <input type="checkbox"/> 4. SEALED Y <input type="checkbox"/> N <input type="checkbox"/> 2. HEADSPACE (VOA) Y <input type="checkbox"/> N <input type="checkbox"/> 5. # OF SPLS MATCH COC Y <input type="checkbox"/> N <input type="checkbox"/> 3. CONTAINER INTACT Y <input type="checkbox"/> N <input type="checkbox"/> 6. PRESERVED Y <input type="checkbox"/> N <input type="checkbox"/>
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Client: Geocon Attention: Rebecca Silva	Address: 3160 Gold Valley Drive, Suite 800 City: Rancho Cordova State: CA Zip Code: 95742	Tel: 916-852-9118 Fax: 916-852-9132
--	--	--

Project Name: I-5 Gores ADL Project #: S9805-01-26 Sampler: Mike O'Brien (Signature)

Relinquished by: (Signature and Printed Name) Mike O'Brien	Date: 5/13/14	Time: 1500	Received by: (Signature and Printed Name) OnTrac	Date: 5/13/14	Time: 1500
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Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:
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I hereby authorize ATL to perform the work indicated below: Project Mgr /Submitter: Rebecca Silva 5/13/14 Print Name Date Signature	Send Report To: Attn: _____ Co: _____ Addr: _____ City: _____ State: _____ Zip: _____	Bill To: Attn: _____ Co: _____ Addr: _____ City: _____ State: _____ Zip: _____	Special Instructions/Comments: Caltrans 03A2132 Homogenize samples for lead analysis.  Please copy Kari Cook on the results and include an excel file. Thank you. (cook@geoconinc.com)
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**Sample/Records - Archival & Disposal**  
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 ■ Sample: \$2.00 / sample /mo (after 45 days)  
 ■ Records: \$1 /ATL workorder /mo (after 1 year)

Circle or Add Analysis(es) Requested

I T E M	LAB USE ONLY:		Sample Description		Date	Time	SPECIFY APPROPRIATE MATRIX							TAT #	Type	PRESERVATION	REMARKS	
	Lab No.	Sample ID / Location	SOIL	WATER			GROUND WATER	WASTEWATER	Other	Other	Other	Other	Other					
	7401420 -61	B18-0.0			5/13/14	1150	X								5-Day	1	baggie	
	-62	0.6				1151												
	-63	1.0				1152												
	-64	2.0				1153												
	-65	B19-0.0				1155												
	-66	0.6				1156												
	-67	1.0				1157												
	-68	2.0				1158												
	-69	B20-0.0				1205												
	-70	0.6				1206												
	-71	1.0				1207												
	-72	2.0				1208												
	-73	B22-0.0				1210												
	-74	0.6				1211												
	-75	1.0				1212												
	-76	2.0				1213												

TAT starts 8AM the following day if samples received after 3 PM  
 TAT:  A = Overnight ≤ 24 hrs   
  B = Emergency Next Workday   
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 Preservatives: H=HCl N=HNO<sub>3</sub> S=H<sub>2</sub>SO<sub>4</sub> C=4°C  
 Z=Zn(AC)<sub>2</sub> O=NaOH T=Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub>  
 Container Types: T=Tube V=VOA L=Liter P=Pin J=Jar B=Bedlar G=Glass P=Plastic M=Metal



May 30, 2014

Rebecca Silva  
Geocon Consultants, Inc.  
3160 Gold Valley Drive, Suite 800  
Rancho Cordova, CA 95742  
Tel: (916) 852-9118  
Fax:(916) 852-9132

ELAP No.: 1838  
CSDLAC No.: 10196  
ORELAP No.: CA300003  
TCEQ No. : T104704502

Re: ATL Work Order Number : 1401420  
Client Reference : I-5 Gores ADL, S9805-01-26

Enclosed are the results for sample(s) received on May 14, 2014 by Advanced Technology Laboratories. The sample(s) are tested for the parameters as indicated on the enclosed chain of custody in accordance with applicable laboratory certifications. The laboratory results contained in this report specifically pertains to the sample(s) submitted.

Thank you for the opportunity to serve the needs of your company. If you have any questions, please feel free to contact me or your Project Manager.

Sincerely,

A handwritten signature in black ink, appearing to read 'Eddie Rodriguez', with a small 'Er' monogram below it.

Eddie Rodriguez  
Laboratory Director

The cover letter and the case narrative are an integral part of this analytical report and its absence renders the report invalid. Test results contained within this data package meet the requirements of applicable state-specific certification programs. The report cannot be reproduced without written permission from the client and Advanced Technology Laboratories.



## Certificate of Analysis

Geocon Consultants, Inc.

3160 Gold Valley Drive, Suite 800

Rancho Cordova, CA 95742

Project Number : I-5 Gores ADL, S9805-01-26

Report To : Rebecca Silva

Reported : 05/30/2014

### SUMMARY OF SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B3-0.0	1401420-01	Soil	5/13/14 9:30	5/14/14 8:05
B4-0.0	1401420-05	Soil	5/13/14 9:35	5/14/14 8:05
B6-0.6	1401420-14	Soil	5/13/14 9:51	5/14/14 8:05
B12-0.0	1401420-37	Soil	5/13/14 10:55	5/14/14 8:05
B18-0.0	1401420-61	Soil	5/13/14 11:50	5/14/14 8:05
B19-0.0	1401420-65	Soil	5/13/14 11:55	5/14/14 8:05
B1-0.0	1401420-69	Soil	5/13/14 12:05	5/14/14 8:05



## Certificate of Analysis

Geocon Consultants, Inc.

3160 Gold Valley Drive, Suite 800

Rancho Cordova , CA 95742

Project Number : I-5 Gores ADL, S9805-01-26

Report To : Rebecca Silva

Reported : 05/30/2014

### TCLP Metals by ICP-AES EPA 6010B

Analyte: Lead

Analyst: CB

Laboratory ID	Client Sample ID	Result	Units	PQL	MDL	Dilution	Batch	Prepared	Date/Time	Notes
									Analyzed	
1401420-01	B3-0.0	ND	mg/L	0.050	NA	1	B4E0567	05/28/2014	05/28/14 16:56	
1401420-61	B18-0.0	0.092	mg/L	0.050	NA	1	B4E0567	05/28/2014	05/28/14 17:07	

### STLC Metals by ICP-AES by EPA 6010B

Analyte: Lead

Analyst: CB

Laboratory ID	Client Sample ID	Result	Units	PQL	MDL	Dilution	Batch	Prepared	Date/Time	Notes
									Analyzed	
1401420-01	B3-0.0	4.7	mg/L	1.0	NA	20	B4E0548	05/27/2014	05/28/14 14:01	
1401420-05	B4-0.0	2.1	mg/L	1.0	NA	20	B4E0548	05/27/2014	05/28/14 14:10	
1401420-14	B6-0.6	5.3	mg/L	1.0	NA	20	B4E0548	05/27/2014	05/28/14 14:12	
1401420-37	B12-0.0	8.1	mg/L	1.0	NA	20	B4E0548	05/27/2014	05/28/14 14:15	
1401420-61	B18-0.0	11	mg/L	1.0	NA	20	B4E0548	05/27/2014	05/28/14 14:17	
1401420-65	B19-0.0	4.3	mg/L	1.0	NA	20	B4E0548	05/27/2014	05/28/14 14:23	
1401420-69	B1-0.0	3.7	mg/L	1.0	NA	20	B4E0548	05/27/2014	05/28/14 14:25	



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### QUALITY CONTROL SECTION

#### TCLP Metals by ICP-AES EPA 6010B - Quality Control

Analyte	Result (mg/L)	PQL (mg/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
<b>Batch B4E0567 - EPA 3010A_SOIL</b>									
<b>Blank (B4E0567-BLK1)</b>					Prepared: 5/28/2014 Analyzed: 5/28/2014				
Lead	ND	0.050					NR		
<b>Blank (B4E0567-BLK2)</b>					Prepared: 5/28/2014 Analyzed: 5/28/2014				
Lead	ND	0.050					NR		
<b>Blank (B4E0567-BLK3)</b>					Prepared: 5/28/2014 Analyzed: 5/28/2014				
Lead	ND	0.050					NR		
<b>Blank (B4E0567-BLK4)</b>					Prepared: 5/28/2014 Analyzed: 5/28/2014				
Lead	ND	0.050					NR		
<b>LCS (B4E0567-BS1)</b>					Prepared: 5/28/2014 Analyzed: 5/28/2014				
Lead	1.04071	0.050	1.00000		104	80 - 120			
<b>Duplicate (B4E0567-DUP1)</b>					Prepared: 5/28/2014 Analyzed: 5/28/2014				
Lead	0.092426	0.050		0.092459	NR		0.0354	20	
<b>Duplicate (B4E0567-DUP2)</b>					Prepared: 5/28/2014 Analyzed: 5/28/2014				
Lead	0.023748	0.050		0.022771	NR		4.20	20	
<b>Matrix Spike (B4E0567-MS1)</b>					Prepared: 5/28/2014 Analyzed: 5/28/2014				
Lead	2.39439	0.050	2.50000	0.092459	92.1	81 - 105			
<b>Matrix Spike (B4E0567-MS2)</b>					Prepared: 5/28/2014 Analyzed: 5/28/2014				
Lead	2.36645	0.050	2.50000	0.022771	93.7	81 - 105			
<b>Matrix Spike Dup (B4E0567-MSD1)</b>					Prepared: 5/28/2014 Analyzed: 5/28/2014				
Lead	2.41599	0.050	2.50000	0.092459	92.9	81 - 105	0.898	20	



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 Reported : 05/30/2014

### STLC Metals by ICP-AES by EPA 6010B - Quality Control

Analyte	Result (mg/L)	PQL (mg/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
<b>Batch B4E0548 - STLC Extraction</b>									
<b>Blank (B4E0548-BLK1)</b>					Prepared: 5/27/2014 Analyzed: 5/28/2014				
Lead	ND	1.0			NR				
<b>LCS (B4E0548-BS1)</b>					Prepared: 5/27/2014 Analyzed: 5/28/2014				
Lead	2.06410	1.0	2.00000		103	80 - 120			
<b>Duplicate (B4E0548-DUP1)</b>					Prepared: 5/27/2014 Analyzed: 5/28/2014				
Lead	4.77259	1.0		4.74174	NR		0.648	20	
<b>Matrix Spike (B4E0548-MS1)</b>					Prepared: 5/27/2014 Analyzed: 5/28/2014				
Lead	6.78264	1.0	2.50000	4.74174	81.6	41 - 136			
<b>Matrix Spike Dup (B4E0548-MSD1)</b>					Prepared: 5/27/2014 Analyzed: 5/28/2014				
Lead	6.88213	1.0	2.50000	4.74174	85.6	41 - 136	1.46	20	



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Reported : 05/30/2014

### Notes and Definitions

ND	Analyte is not detected at or above the Practical Quantitation Limit (PQL). When client requests quantitation against MDL, analyte is not detected at or above the Method Detection Limit (MDL)
PQL	Practical Quantitation Limit
MDL	Method Detection Limit
NR	Not Reported
RPD	Relative Percent Difference
CA2	CA-ELAP (CDPH)
OR1	OR-NELAP (OSPHL)
TX1	TX-NELAP (TCEQ)

#### Notes:

- (1) The reported MDL and PQL are based on prep ratio variation and analytical dilution.
- (2) The suffix [2C] of specific analytes signifies that the reported result is taken from the instrument's second column.
- (3) Results are wet unless otherwise specified.

**Diane Galvan**

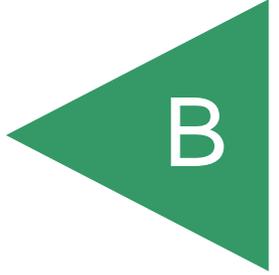
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**From:** Rebecca Silva [silva@geoconinc.com]  
**Sent:** Thursday, May 22, 2014 12:53 PM  
**To:** Rachelle Arada  
**Cc:** Diane Galvan  
**Subject:** RE: Results - I-5 Gores ADL, S9805-01-26 (ATL# 1401420)

Hi Rachelle – Please analyze the seven samples with total lead > 50 mg/kg for WET lead on 5-day TAT and the two samples with total lead > 100 mg/kg for TCLP lead on 5-day TAT.

Thanks,  
Rebecca

APPENDIX



**Project Name:** Interstate 5 - Gore Paving Project  
**Geocon Project No.:** S9805-01-26  
**Sample Population:** Gore Point 7 - Borings B11 through B13

---

**Lead - 0.0 to 1.0 ft**

Total Number of Observations	6	Number of Distinct Observations	6
		Number of Missing Observations	0
Minimum	2.5	Mean	15.75
Maximum	60	Median	7.5
SD	21.85	Std. Error of Mean	8.921
Coefficient of Variation	1.387	Skewness	2.362
Mean of logged data	2.205	SD of logged data	1.05
		<b>90% Standard Bootstrap UCL</b>	<b>26.1</b>
		<b>95% Standard Bootstrap UCL</b>	<b>29.2</b>

**Lead - 0.0 to 2.0 ft**

Total Number of Observations	9	Number of Distinct Observations	9
		Number of Missing Observations	0
Minimum	2.5	Mean	12.02
Maximum	60	Median	6
SD	18.17	Std. Error of Mean	6.057
Coefficient of Variation	1.512	Skewness	2.888
Mean of logged data	1.964	SD of logged data	0.921
		<b>90% Standard Bootstrap UCL</b>	<b>19.4</b>
		<b>95% Standard Bootstrap UCL</b>	<b>21.5</b>

**Lead - 0.0 to 3.0 ft**

Total Number of Observations	12	Number of Distinct Observations	12
		Number of Missing Observations	0
Minimum	2.5	Mean	11.75
Maximum	60	Median	5.9
SD	16.24	Std. Error of Mean	4.688
Coefficient of Variation	1.382	Skewness	2.829
Mean of logged data	1.984	SD of logged data	0.891
		<b>90% Standard Bootstrap UCL</b>	<b>17.3</b>
		<b>95% Standard Bootstrap UCL</b>	<b>19.1</b>

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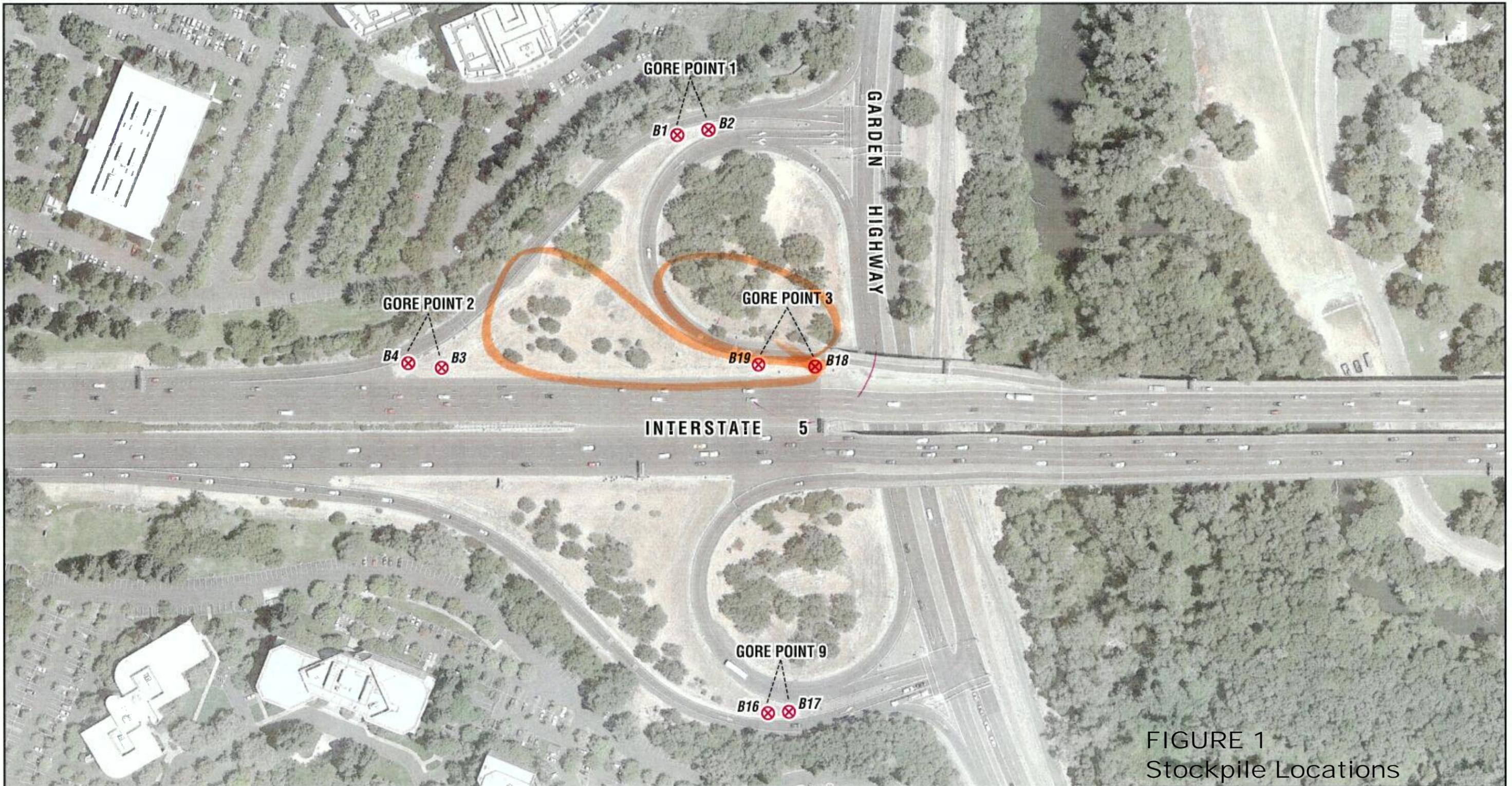


FIGURE 1  
Stockpile Locations

LEGEND:

**B19** ⊗ Approximate Boring Location (Caltrans Landscape Layout Plan - LL-4)



0 150  
Scale in Feet



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Interstate 5 – Gore Paving

Sacramento County,  
California

**SITE PLAN**

GEOCON Proj. No. S9805-01-26

Task Order No. 26

June 2014

Figure 2-1

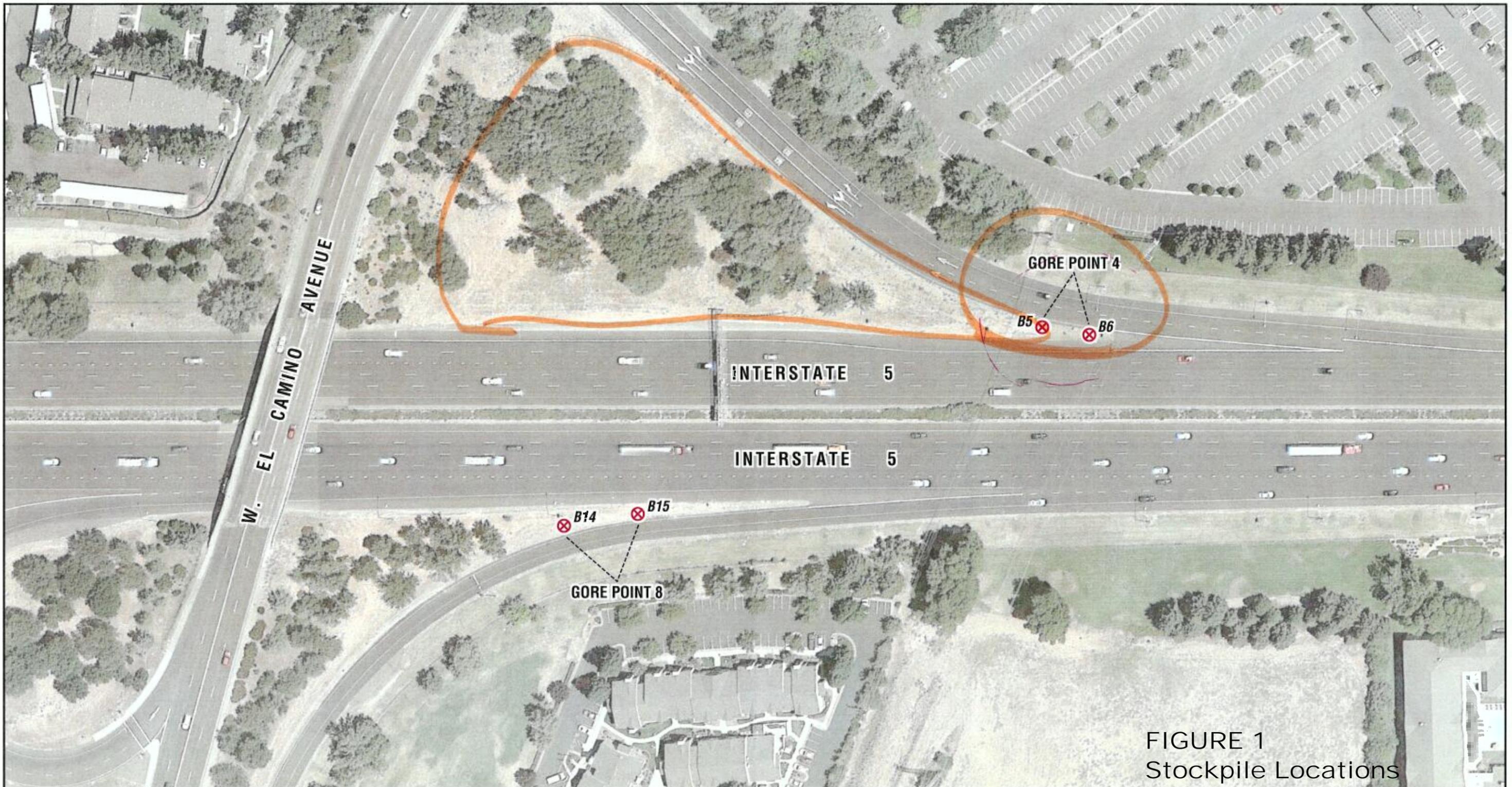


FIGURE 1  
Stockpile Locations

LEGEND:

**B15** ⊗ Approximate Boring Location (Caltrans Landscape Layout Plan - LL-5)



0 100  
Scale in Feet



**GEOCON**  
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Interstate 5 - Gore Paving

Sacramento County,  
California

**SITE PLAN**

GEOCON Proj. No. S9805-01-26

Task Order No. 26

June 2014

Figure 2-2