

FOR CONTRACT NO.: 03-1C1124

INFORMATION HANDOUT

MATERIALS INFORMATION

AERIALY DEPOSITED LEAD SITE INVESTIGATION REPORT

TUNNEL SAFETY ORDERS

FOUNDATION RECOMMENDATION

ROUTE: 03-ED,Pla-50,89,267-Var

AERIALLY DEPOSITED LEAD SITE INVESTIGATION REPORT

Highways 50, 80, 89 and 267
El Dorado, Placer and
Nevada Counties, California

PREPARED FOR:

**CALIFORNIA DEPARTMENT OF TRANSPORTATION – DISTRICT 3
ENVIRONMENTAL ENGINEERING OFFICE
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**GEOCON PROJECT NO. S9300-06-112
TASK ORDER NO. 112, EA 03-1C1121**

MAY 2010



Project No. S9300-06-112
May 11, 2010

Mr. Rajive Chadha
California Department of Transportation - District 3
Environmental Engineering Office
P.O. Box 911
Marysville, California 95901

Subject: HIGHWAYS 50, 80, 89 AND 267
EL DORADO, PLACER AND NEVADA COUNTIES, CALIFORNIA
CONTRACT NO. 03A1368, TASK ORDER NO. 112, EA 03-1C1121
AERIALY DEPOSITED LEAD SITE INVESTIGATION REPORT

Dear Mr. Chadha:

In accordance with California Department of Transportation (Caltrans) Contract No. 03A1368, Task Order Number 112, and Expense Authorization 03-1C1121, Geocon Consultants, Inc. has performed environmental engineering services for the subject project. The Site consists of Caltrans right-of-way along Highways 50, 80, 89 and 267 in El Dorado, Placer and Nevada Counties, California. The accompanying report summarizes the services performed, including the advancement of 72 direct-push and 28 hand-auger borings for soil sampling and aerially deposited lead testing.

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 there are 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

GGR:JEJ:krh

(5 + 3 CDs) Addressee

John E. Juhrend, PE, CEG
Project Manager



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AERIALY DEPOSITED LEAD SITE INVESTIGATION REPORT

1.0 INTRODUCTION

This Aerially Deposited Lead (ADL) Site Investigation report for the Highways (Hwy) 50, 80, 89 and 267 project was prepared by Geocon Consultants, Inc. under California Department of Transportation (Caltrans) Contract No. 03A1368, Task Order (TO) Number (No.) 112, and Expense Authorization (EA) 03-1C1121.

1.1 Project Description and Proposed Improvements

The project area consists of four locations within state right-of-way along Hwy 50, 80, 89 and 267. Caltrans proposes to install various types of traffic management system and construct vehicle pullouts within the project limits. The approximate project locations are depicted on the Vicinity Map, Figure 1, and Site Plans, Figures 2-1 through 2-16. The site investigation activities were conducted at the following locations:

- Eastbound (EB) and/or westbound (WB) Hwy 50 between Post Miles (PM) 30.5 and 63.7 in El Dorado County
- EB and WB Hwy 80 at PM 12.7 in Nevada County
- Northbound (NB) and southbound (SB) Hwy 89 between PM 12.4 and 19.0 in Placer County
- EB and WB Hwy 267 at PM 0.25 in Placer County

1.2 General Objectives

The purpose of the scope of services outlined in TO No. 112 was to evaluate whether impacts due to aerial lead deposition from motor vehicle exhaust exist in the surface and near surface soils within the project boundaries. The investigative results will be used by Caltrans to inform the construction contractor(s) if lead-impacted soil is present within the project boundaries for construction worker health and safety and soil management/disposal purposes.

2.0 BACKGROUND

2.1 Potential Lead Soil Impacts

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

2.2 Hazardous Waste Determination Criteria

Regulatory criteria to classify a waste as "California hazardous" for handling and disposal purposes are contained in the *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.

For waste containing metals, the waste is classified as California hazardous when: 1) the total metal content exceeds the respective Total Threshold Limit Concentration (TTLC); or 2) the soluble metal content 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 soluble metal content 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., 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

We performed the following scope of services as requested by Caltrans in TO No. 112:

3.1 Pre-field Activities

- Conducted a site visit on December 2 and 3, 2009, to discuss the TO scope of services. Caltrans representative Rajive Chadha and Geocon representative Michael O'Brien performed the site visit. The purpose of the site visit was to observe the project boundaries and conditions. The project limits and proposed boring locations were further marked out in white paint for subsequent utility clearance.
- Utilized the *Health and Safety Plan* from previous task orders under Caltrans Contract 03A1368 (TO No. 79 dated April 13, 2009, and TO No. 104 dated October 2009), to provide guidelines on the use of personal protective equipment during the field activities.
- Provided 48-hour notification to Underground Service Alert (USA) prior to job site mobilization (USA Ticket Nos. 375134, 375233, 375248, 375282, 376147, 376153, 376163, 376393, 376422, 376441 and 376666).
- Retained the services of Advanced Technology Laboratories (ATL) to perform the chemical analysis of soil samples.

3.2 Field Activities

The field activities consisted of collecting soil samples along the shoulder areas of Hwy 50, 80, 89 and 267. On December 2, 3, 8 and 9, 2009, 194 soil samples were collected from 42 direct-push and 28 hand-auger borings at the Caltrans designated soil sampling locations. The borings were advanced to the maximum sampling depth of 3.0 feet. Soil samples were collected at general depths of 0.0 to 1.0 foot, 1.0 to 2.0 feet and 2.0 to 3.0 feet.

We performed additional soil sampling on March 29 and 30, 2010, along Hwy 89 at PMs 13.7 and 19.0 and along Hwy 50 at PMs 30.5, 39.7, 53.2 and 59.7. We collected 90 soil samples from 30 additional direct-push borings advanced along Hwy 89 and Hwy 50. The borings were advanced to the maximum sampling depth of 3.0 feet. Soil samples were collected at general depths of 0.0 to 1.0 foot, 1.0 to 2.0 feet and 2.0 to 3.0 feet. Borings along Hwy 50 at PMs 39.7 and 53.2 were advanced to the maximum sampling depth of 5.0 feet. Soil samples were collected at general depths of 0.0 to 1.0 foot, 2.0 to 3.0 feet and 4.0 to 5.0 feet.

4.0 INVESTIGATIVE METHODS

4.1 Boring Location Rationale

The following soil boring locations were designated by Caltrans in the vicinity of proposed improvements. The approximate soil boring locations are depicted on the Site Plans as described below.

- Borings PM30.5E1 through PM30.5E8 were advanced along the shoulder of EB Hwy 50 at PM 30.5 (Figure 2-1);

- Borings PM39E1 through PM39E4 were advanced along the shoulder of WB Hwy 50 at PM 39.7 (Figure 2-2);
- Borings PM47E21 through PM47E30 were advanced along the shoulder of EB Hwy 50 at PM 47.3 (Figure 2-3);
- Borings PM50E5 through PM50E8 were advanced along the shoulder of WB Hwy 50 at PM 50.8 (Figure 2-4);
- Borings PM53E1 through PM53E8 were advanced along the shoulder of WB Hwy 50 at PM 53.2 (Figure 2-5);
- Borings PM58E31 through PM58E34 were advanced along the shoulder of EB Hwy 50 at PM 58.9 (Figure 2-6);
- Borings PM59E13 through PM59E16 were advanced along the shoulder of WB Hwy 50 at PM 59.7 (Figure 2-7);
- Borings PM59E17 through PM59E23 were advanced along the shoulder of EB Hwy 50 at PM 59.7 (Figure 2-7);
- Borings PM63E9 through PM63E12 were advanced along the shoulder of EB Hwy 50 at PM 63.7 (Figure 2-8);
- Borings 80P1 through 80P4 were advanced along the shoulder of WB Hwy 80 at PM 12.7 (Figure 2-9);
- Borings 80P5 through 80P8 were advanced along the shoulder of EB Hwy 80 at PM 12.7 (Figure 2-10);
- Borings 89P9 through 89P12 were advanced along the shoulder of NB Hwy 89 at PM 12.4 (Figure 2-11);
- Borings 89P13 through 89P24 were advanced along the shoulder of SB Hwy 89 at PM 13.7 (Figure 2-12);
- Borings 89P5 through 89P8 were advanced along the shoulder of SB Hwy 89 at PM 15.6 (Figure 2-13);
- Borings 89P1 through 89P4 and 89P25 through 89P27 were advanced along the shoulder of NB Hwy 89 at PM 19.0 (Figure 2-14);
- Borings 267P1 and 267P8 through 267P12 were advanced along the shoulder of WB Hwy 267 at PM 0.25 (Figures 2-15 and 2-16); and
- Borings 267P2 through 267P7 were advanced along the shoulder of EB Hwy 267 at PM 0.25 (Figures 2-15 and 2-16).

Refusal was encountered in several borings at depths between 0.5 and 3.0 feet.

The coordinates of the boring locations were determined using a differential global positioning system (GPS). Caltrans elected not to obtain the coordinates of the borings advanced on March 29 and 30, 2010. The GPS was utilized during the field activities to locate the horizontal position of each location

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 Aerially Deposited Lead Soil Sampling Procedures

A total of 284 soil samples were collected from 72 direct-push and 28 hand-auger borings advanced 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 open and the sample from a particular interval was transferred to a Ziploc[®] re-sealable plastic bag. Soil samples obtained using a hand-auger were transferred directly from the hand-auger to Ziploc[®] re-sealable plastic bags. 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.

Quality assurance/quality control (QA/QC) procedures were performed during the field exploration activities. These procedures included decontamination of sampling equipment before each boring was advanced and providing COC documentation for each sample submitted to the laboratory. The soil sampling equipment was cleansed between each boring by washing the equipment with an Alconox[™] solution followed by a double rinse with deionized water. The field sampling activities were performed under the supervision of Geocon's field manager.

The borings were backfilled with the excess soil cuttings. The decontamination water was discharged to the ground surface away from surface water bodies or storm drain inlets.

4.3 Traffic Control

We provided "SHOULDER WORK AHEAD" advanced warning signs and/or orange traffic cones during the field work.

4.4 Laboratory Analyses

The soil samples collected within the project boundaries were submitted to ATL for the following analyses under standard turn-around-time (TAT). Per Caltrans' direction, eight soil samples collected from a depth interval of 4.0 to 5.0 feet from borings advanced along Hwy 50 at PMs 39.7 and 53.2 were held by ATL and to be analyzed only if the respective sample from a depth of 2.0 to 3.0 feet had a total lead concentration greater than 50 mg/kg (ten times the STLC value for lead of 5.0 mg/l). The laboratory was instructed to homogenize the soil samples prior to analysis in accordance with Contract 03A1368 requirements.

- Two hundred sixty-four 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 7420.

- Three soil samples were analyzed for TCLP soluble lead following EPA Test Methods 1311 and 7420 under five-day TAT.

QA/QC procedures were performed for each method of analysis with specificity for each analyte listed in the test method's QA/QC. The laboratory QA/QC procedures 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 during the excavation of borings was generally comprised of silty coarse sand with gravels to the maximum sampling depth of approximately 5.0 feet. Groundwater was not encountered in the soil borings.

5.2 ADL Soil Analytical Results

A summary of the soil analytical results are presented in Table 1. The laboratory reports and COC documentation are presented in Appendix A.

Total lead was detected in 215 of the 264 soil samples analyzed at concentrations ranging from 5.0 to 400 mg/kg. Twenty-two of the 264 soil samples had reported total lead concentrations greater than or equal to 50 mg/kg (ten times the STLC value for lead of 5.0 mg/l). Caltrans elected not to analyze selected samples with total lead concentrations greater than 50 mg/kg for WET soluble lead since the respective calculated total lead UCLs were less than 50 mg/kg (presented in Section 5.4.1).

WET soluble lead was reported for each of the seven soil samples analyzed at concentrations ranging from 0.32 to 7.4 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 each of the three soil samples analyzed at concentrations of 0.31, 0.53 and 0.60 mg/l, less than the federal RCRA hazardous waste threshold value of 5.0 mg/l.

5.3 Laboratory Quality Assurance/Quality Control

We reviewed the laboratory QA/QC provided with the laboratory reports. Relative percent difference for duplicates, matrix spikes and/or matrix spike duplicates were outside criteria for several samples. However, the analytical batch was validated by the laboratory control sample. 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 analysis was performed on 16 separate data populations along segments of Hwy 50, 80, 89 and 267 as requested by Caltrans. A summary of lead analytical results are presented on Table 1.

- Data Population #1 consists of soil samples collected from borings PM30.5E1 through PM30.5E8 advanced along the shoulder of EB Hwy 50 at PM 30.5 (Figure 2-1);
- Data Population #2 consists of soil samples collected from borings PM39E1 through PM39E4 advanced along the shoulder of WB Hwy 50 at PM 39.7 (Figure 2-2);
- Data Population #3 consists of soil samples collected from borings PM47E21 through PM47E30 advanced along the shoulder of EB Hwy 50 at PM 47.3 (Figure 2-3);
- Data Population #4 consists of soil samples collected from borings PM50E5 through PM50E8 advanced along the shoulder of WB Hwy 50 at PM 50.8 (Figure 2-4);
- Data Population #5 consists of soil samples collected from borings PM53E1 through PM53E8 advanced along the shoulder of WB Hwy 50 at PM 53.2 (Figure 2-5);
- Data Population #6 consists of soil samples collected from borings PM58E31 through PM58E34 advanced along the shoulder of EB Hwy 50 at PM 58.9 (Figure 2-6);
- Data Population #7 consists of soil samples collected from borings PM59E13 through PM59E16 advanced along the shoulder of WB Hwy 50 at PM 59.7 (Figure 2-7);
- Data Population #8 consists of soil samples collected from borings PM59E17 through PM59E23 advanced along the shoulder of EB Hwy 50 at PM 59.7 (Figure 2-7);
- Data Population #9 consists of soil samples collected from borings PM63E9 through PM63E12 advanced along the shoulder of EB Hwy 50 at PM 63.7 (Figure 2-8);
- Data Population #10 consists of soil samples collected from borings 80P1 through 80P4 advanced along the shoulder of WB Hwy 80 at PM 12.7 (Figure 2-9);
- Data Population #11 consists of soil samples collected from borings 80P5 through 80P8 advanced along the shoulder of EB Hwy 80 at PM 12.7 (Figure 2-10);
- Data Population #12 consists of soil samples collected from borings 89P9 through 89P12 advanced along the shoulder of NB Hwy 89 at PM 12.4 (Figure 2-11);
- Data Population #13 consists of soil samples collected from borings 89P13 through 89P24 advanced along the shoulder of SB Hwy 89 at PM 13.7 (Figure 2-12);
- Data Population #14 consists of soil samples collected from borings 89P5 through 89P8 advanced along the shoulder of SB Hwy 89 at PM 15.6 (Figure 2-13);

- Data Population #15 consists of soil samples collected from borings 89P1 through 89P4 and 89P25 through 89P27 advanced along the shoulder of NB Hwy 89 at PM 19.0 (Figure 2-14); and
- Data Population #16 consists of soil samples collected from borings 267P1 through 267P12 advanced along the shoulder of WB and EB Hwy 267 at PM 0.25 (Figures 2-15 and 2-16).

Statistical methods were applied to the total lead data to evaluate: 1) the upper confidence limits (UCLs) of the arithmetic means of the total lead concentrations for each sampling depth; and 2) if an acceptable correlation between total and soluble lead concentrations exists that would allow the prediction of soluble lead concentrations based on calculated UCLs. The statistical methods used are discussed in a book entitled *Statistical Methods for Environmental Pollution Monitoring*, by Richard Gilbert; in an EPA *Technology Support Center Issue* document entitled, *The Lognormal Distribution in Environmental Applications*, by Ashok Singh et. al., dated December 1997; and in a book entitled *An Introduction to the Bootstrap*, by Bradley Efron and Robert J. Tibshirani.

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 used to calculate the UCLs are discussed in the previously referenced EPA document and in *An Introduction to the Bootstrap*. For those samples in which total lead was not detected at concentrations exceeding the laboratory reporting limit, a value equal to one-half of the reporting limit was used in the UCL calculation. The bootstrap results are included in Appendix B.

The calculated total lead UCLs and statistical results for the samples collected from Hwy 50, 80, 89 and 267 are summarized in the following tables. The total lead UCLs were not calculated for Data Populations 2, 4, 7, 9 through 12, and 14 since the total lead concentrations are less than 50 mg/kg.

Data Population #1 – Hwy 50 PM 30.5

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	75.8	80.3	55.4	5.9	150
1.0 to 2.0	17.5	18.3	15.4	11	28
2.0 to 3.0	13.7	13.8	13.1	11	15

Data Population #3 – Hwy 50 PM 47.3

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	30.1	32.5	19.9	2.5	90
1.0 to 2.0	26.1	28.2	17.8	2.5	70
2.0 to 3.0	6.7	7.0	5.3	2.5	9.4

Data Population #5 - Hwy 50 PM 53.2

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	12.3	13.1	9.7	6.4	25
1.0 to 2.0	31.3	34.0	21.3	9.1	48
2.0 to 3.0	48.3	51.9	35	6.5	94

Data Population #6 - Hwy 50 PM 58.9

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	40.7	44.1	29.0	9.9	51
1.0 to 2.0	23.4	25.0	18.1	6.3	29
2.0 to 3.0	45.0*	45.0*	23.2	2.5	45

*UCLs could not be calculated for the samples collected from this interval since there were insufficient amount of data collected for this interval. The highest total lead concentration was used as UCLs for this depth interval.

Data Population #8 - Hwy 50 PM 59.7 EB

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	39.6	43.2	27.9	7.2	85
1.0 to 2.0	30.4	32.2	24.3	5.8	39
2.0 to 3.0	40.2	43.1	30.8	5.7	54

Data Population #13 - Hwy 89 PM 13.7

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	151.9	165.4	98.6	24	400
1.0 to 2.0	9.9	10.3	8.5	6.2	16
2.0 to 3.0	7.1	7.3	6.2	2.5	8.4

Data Population #15 - Hwy 89 PM 19.0

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	94.1	102.8	67.1	16	200
1.0 to 2.0	5.7	6.0	4.7	2.5	7.7
2.0 to 3.0	6.9	7.2	5.7	2.5	10

Data Population #16 - Hwy 267 PM 0.25

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	11.7	12.3	9.7	2.5	22
1.0 to 2.0	26.3	27.8	20.9	2.5	50
2.0 to 3.0	27.1	29.4	19.0	2.5	78

5.4.2 Correlation of Total and Soluble Lead

Total and corresponding WET soluble lead concentrations are bivariate data with a linear structure. This linear structure should allow for the prediction of WET soluble lead concentrations based on the UCLs calculated in Section 5.4.1.

To estimate the degree of interrelation between total and corresponding WET soluble lead values (x and y , respectively), the *correlation coefficient* [r] is used. The correlation coefficient is a ratio that ranges from +1 to -1. A *correlation coefficient* of +1 indicates a perfect direct relationship between two variables; a *correlation coefficient* of -1 indicates that one variable changes inversely with relation to the other. Between the two extremes is a spectrum of less-than-perfect relationships, including zero, which indicates the lack of any sort of linear relationship at all.

The *correlation coefficients* for Data Population Nos. 1, 13 and 15 were calculated for the (x , y) data points (i.e., soil samples analyzed for both total lead [x] and WET soluble lead [y]). A *correlation coefficient* greater than or equal to 0.8 is an acceptable indicator that a correlation exists.

The *correlation coefficient* for total and WET soluble data for the samples collected along Hwy 50 (Data Population #1) equaled 0.6058, which is less than 0.8. Consequently, an acceptable correlation between total lead and WET soluble lead data could not be established for the samples collected along Hwy 50 using residual regression due to few data points available. Thus, predicted WET soluble lead concentrations were determined using the highest slope possible of 0.1 based on total and WET soluble lead data.

The *correlation coefficient* for total and WET soluble data for the samples collected along Hwy 89 (Data Population Nos. 13 and 15) equaled 0.9125, which indicates a good correlation between total lead and WET soluble lead data.

For the *correlation coefficient* that indicates a linear relationship between total and WET soluble lead concentrations, it is possible to compute the line of dependence or a best-fit line between the two variables. A least squares method was used to find the equation of a best-fit line (regression line) by forcing the y-intercept equal to zero since that is a known point. Since the total lead and WET soluble lead data for Data Population #1 (Hwy 50 PM 30.5) did not have an acceptable correlation, the predicted WET soluble lead concentrations were calculated using the equation $y = 0.1(x)$. The equation of the regression line was determined to be $y = 0.0644(x)$ for Data Population Nos. 13 and 15 (Hwy 89 PMs 13.7 and 19.0), where x represents total lead concentrations and y represents predicted WET soluble lead concentrations.

Regression line was not determined for Data Population Nos. 3, 6, 8 and 16 since the calculated 90% and 95% total lead UCLs for these data populations are less than 50 mg/kg.

These equations were used to estimate the expected WET soluble lead concentrations for the UCLs calculated in Section 5.4.1. Regression analysis results and a scatter plot depicting the (x, y) data points along with the regression lines are presented in Appendix B. The 90% and 95% UCL-predicted WET soluble lead concentrations are presented in Section 6.0.

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. The reuse of excavated soil was not evaluated based on the DTSC Variance due to lack of DI-WET soluble lead data for the soil samples collected at the Site.

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 Data Population #1 - Highway 50 PM 30.5

The table below summarizes the excavation scenarios, the UCL-predicted WET soluble lead calculations and the waste classification for excavated soil within this area based on the calculated total lead UCLs and the relationship between total and WET soluble lead.

Excavation Depth	90% UCL Total Lead (mg/kg)	90% UCL Predicted WET Lead (mg/l)	95% UCL Total Lead (mg/kg)	95% UCL Predicted WET Lead (mg/l)	Waste Classification
0.0 to 1.0 foot	75.8	7.6	80.3	8.0	Hazardous
<i>Underlying soil (1.0 to 3.0 feet)</i>	15.6	1.6	16.1	1.6	Non-hazardous
0.0 to 2.0 foot	46.7	4.7	49.3	4.9	Non-hazardous
<i>Underlying soil (2.0 to 3.0 feet)</i>	13.7	1.4	13.8	1.4	Non-hazardous
0.0 to 3.0 feet	35.7	3.6	37.5	3.8	Non-hazardous

90% UCL applicable for waste classification and onsite reuse; 95% UCL applicable for risk assessment and offsite disposal
 Predicted WET lead concentrations were calculated using the equation of the regression line: $y = 0.1x$

Based on the data presented in the table above, soil excavated from the surface to a depth of 1.0 foot would be classified as a California hazardous waste since the 90% and 95% UCL-predicted soluble (WET) lead concentrations are greater than the STLC value for lead of 5.0 mg/l. If excavated separately, the top 1.0 foot of excavated soil should be either (1) managed and disposed as a California hazardous waste or (2) stockpiled and resampled to confirm waste classification in accordance with specific disposal facility acceptance criteria, if applicable.

If the top 1.0 foot of soil were to be removed, the underlying soil (1.0 to 3.0 feet) were excavated and managed separately would not be classified as a California-hazardous waste since the 90% UCL-predicted WET soluble lead concentration is less than the STLC value for lead of 5.0 mg/l.

If the top 2.0 to 3.0 feet of soil is excavated and managed as a whole, then soil generated from the top 2.0 to 3.0 feet would not be classified as a California-hazardous waste since the 90% and 95% UCL-predicted WET soluble lead concentrations are less than the STLC value for lead of 5.0 mg/l. Consequently, the top 2.0 to 3.0 feet of excavated soil could be reused or disposed of as non-hazardous soil with respect to lead content.

According to Caltrans, current construction design does not include trenching within this segment of Hwy 50.

6.2 Data Population #2 - Highway 50 PM 39.7

Soil materials excavated to the maximum sampling depth of 3.0 feet within this area would not be classified as a California hazardous waste since the total lead concentrations are less than 50 mg/kg. Consequently, soil generated from excavations to 3.0 feet or shallower could be reused or disposed of as non-hazardous soil with respect to lead content.

6.3 Data Population #3 - Highway 50 PM 47.3

Soil materials excavated to the maximum sampling depth of 3.0 feet within this area would not be classified as a California hazardous waste since the calculated 90% and 95% total lead UCLs are less than 50 mg/kg. Consequently, soil generated from excavations to 3.0 feet or shallower could be reused or disposed of as non-hazardous soil with respect to lead content.

6.4 Data Population #4 - Highway 50 PM 50.8

Soil materials excavated to the maximum sampling depth of 3.0 feet within this area would not be classified as a California hazardous waste since the total lead concentrations are less than 50 mg/kg. Consequently, soil generated from excavations to 3.0 feet or shallower could be reused or disposed of as non-hazardous soil with respect to lead content.

6.5 Data Population #5 - Highway 50 PM 53.2

The table below summarizes the excavation scenarios, the UCL-predicted WET soluble lead calculations and the waste classification for excavated soil within this area based on the calculated total lead UCLs and the relationship between total and WET soluble lead.

Excavation Depth	90% UCL Total Lead (mg/kg)	95% UCL Total Lead (mg/kg)	Waste Classification
0.0 to 1.0 foot	12.3	13.1	Non-hazardous
0.0 to 2.0 feet	21.8	23.6	Non-hazardous
0.0 to 3.0 feet	30.6	33.2	Non-hazardous

90% UCL applicable for waste classification and onsite reuse; 95% UCL applicable for risk assessment and offsite disposal

Based on the data presented in the table above, soil materials excavated to a depth of 3.0 feet or shallower would not be classified as a California hazardous waste since the 90% and 95% UCL-predicted WET soluble lead concentrations are less than 50 mg/kg (ten times the STLC value for lead of 5.0 mg/l). Consequently, soil generated from excavations to 3.0 feet or shallower could be reused or disposed of as non-hazardous soil with respect to lead content.

6.6 Data Population #6 - Highway 50 PM 58.9

Soil materials excavated to the maximum sampling depth of 3.0 feet within this area would not be classified as a California hazardous waste since the calculated 90% and 95% total lead UCLs are less than 50 mg/kg. Consequently, soil generated from excavations to 3.0 feet or shallower could be reused or disposed of as non-hazardous soil with respect to lead content.

6.7 Data Population #7 - Highway 50 PM 59.7 (Westbound)

Soil materials excavated to the maximum sampling depth of 3.0 feet within this area would not be classified as a California hazardous waste since the total lead concentrations are less than 50 mg/kg. Consequently, soil generated from excavations to 3.0 feet or shallower could be reused or disposed of as non-hazardous soil with respect to lead content.

6.8 Data Population #8 - Highway 50 PM 59.7 (Eastbound)

Soil materials excavated to the maximum sampling depth of 3.0 feet within this area would not be classified as a California hazardous waste since the calculated 90% and 95% total lead UCLs are less than 50 mg/kg. Consequently, soil generated from excavations to 3.0 feet or shallower could be reused or disposed of as non-hazardous soil with respect to lead content.

6.9 Data Population #9 - Highway 50 PM 63.7

Soil materials excavated to the maximum sampling depth of 3.0 feet within this area would not be classified as a California hazardous waste since the total lead concentrations are less than 50 mg/kg. Consequently, soil generated from excavations to 3.0 feet or shallower could be reused or disposed of as non-hazardous soil with respect to lead content.

6.10 Data Population #10 - Highway 80 PM 12.7 (Westbound)

Soil materials excavated to the maximum sampling depth of 3.0 feet within this area would not be classified as a California hazardous waste since the total lead concentrations are less than 50 mg/kg. Consequently, soil generated from excavations to 3.0 feet or shallower could be reused or disposed of as non-hazardous soil with respect to lead content.

6.11 Data Population #11 - Highway 80 PM 12.7 (Eastbound)

Soil materials excavated to the maximum sampling depth of 3.0 feet within this area would not be classified as a California hazardous waste since the total lead concentrations are less than 50 mg/kg. Consequently, soil generated from excavations to 3.0 feet or shallower could be reused or disposed of as non-hazardous soil with respect to lead content.

6.12 Data Population #12 - Highway 89 PM 12.4

Soil materials excavated to the maximum sampling depth of 3.0 feet within this area would not be classified as a California hazardous waste since the total lead concentrations are less than 50 mg/kg. Consequently, soil generated from excavations to 3.0 feet or shallower could be reused or disposed of as non-hazardous soil with respect to lead content.

6.13 Data Population #13 - Highway 89 PM 13.7

The table below summarizes the excavation scenarios, the UCL-predicted WET soluble lead calculations and the waste classification for excavated soil within this area based on the calculated total lead UCLs and the relationship between total and WET soluble lead.

Excavation Depth	90% UCL Total Lead (mg/kg)	90% UCL Predicted WET Lead (mg/l)	95% UCL Total Lead (mg/kg)	95% UCL Predicted WET Lead (mg/l)	Waste Classification
0.0 to 1.0 foot	151.9	9.8	165.4	10.7	Hazardous
<i>Underlying soil (1.0 to 3.0 feet)</i>	8.5	0.5	8.8	0.6	<i>Non-hazardous</i>
0.0 to 2.0 feet	80.9	5.2	87.9	5.7	Hazardous
<i>Underlying soil (2.0 to 3.0 feet)</i>	7.1	0.5	7.3	0.5	<i>Non-hazardous</i>
0.0 to 3.0 feet	56.3	3.6	61.0	3.9	<i>Non-hazardous</i>

90% UCL applicable for waste classification and onsite reuse; 95% UCL applicable for risk assessment and offsite disposal
 Predicted WET lead concentrations were calculated using the equation of the regression line: $y = 0.0644x$

Based on the data presented in the table above, soil excavated to a depth of 2.0 feet or shallower would be classified as a California hazardous waste since the 90% and 95% UCL-predicted soluble (WET) lead concentrations are greater than the STLC value for lead of 5.0 mg/l. Soil excavated to a depth of 2.0 feet or shallower cannot be reused and should be either (1) managed and disposed as a California

hazardous waste or (2) stockpiled and resampled to confirm waste classification in accordance with specific disposal facility acceptance criteria, if applicable.

If the top 1.0 foot of soil were to be removed, the underlying soil (1.0 to 3.0 feet) where excavated and managed separately would not be classified as a California-hazardous waste since the 90% UCL-predicted WET soluble lead concentration is less than the STLC value for lead of 5.0 mg/l.

If the top 3.0 feet of soil is excavated and managed as a whole, then soil generated from the top 3.0 feet would not be classified as a California-hazardous waste since the 90% and 95% UCL-predicted WET soluble lead concentrations are less than the STLC value for lead of 5.0 mg/l. Consequently, the top 3.0 feet of excavated soil could be reused onsite or disposed of as non-hazardous soil with respect to lead content. It is our understanding that proposed trenching at this location will be to a depth of 3.0 feet.

6.14 Data Population #14 - Highway 89 PM 15.6

Soil materials excavated to the maximum sampling depth of 3.0 feet within this area would not be classified as a California hazardous waste since the total lead concentrations are less than 50 mg/kg. Consequently, soil generated from excavations to 3.0 feet or shallower could be reused or disposed of as non-hazardous soil with respect to lead content.

6.15 Data Population #15 - Highway 89 PM 19.0

The table below summarizes the excavation scenarios, the UCL-predicted WET soluble lead calculations and the waste classification for excavated soil within this area based on the calculated total lead UCLs and the relationship between total and WET soluble lead.

Excavation Depth	90% UCL Total Lead (mg/kg)	90% UCL Predicted WET Lead (mg/l)	95% UCL Total Lead (mg/kg)	95% UCL Predicted WET Lead (mg/l)	Waste Classification
0.0 to 1.0 foot	94.1	6.1	102.8	6.6	Hazardous
<i>Underlying soil (1.0 to 3.0 feet)</i>	6.3	0.4	6.6	0.4	Non-hazardous
0.0 to 2.0 feet	49.9	3.2	54.4	3.5	Non-hazardous
<i>Underlying soil (2.0 to 3.0 feet)</i>	6.9	0.4	7.2	0.5	Non-hazardous
0.0 to 3.0 feet	35.6	2.3	38.7	2.5	Non-hazardous

90% UCL applicable for waste classification and onsite reuse; 95% UCL applicable for risk assessment and offsite disposal
 Predicted WET lead concentrations were calculated using the equation of the regression line: $y = 0.0644x$

Based on the data presented in the table above, soil excavated from the surface to a depth of 1.0 foot would be classified as a California hazardous waste since the 90% and 95% UCL-predicted soluble (WET) lead concentrations are greater than the STLC value for lead of 5.0 mg/l. Soil excavated to a

depth of 1.0 foot cannot be reused and should be either (1) managed and disposed as a California hazardous waste or (2) stockpiled and resampled to confirm waste classification in accordance with specific disposal facility acceptance criteria, if applicable.

If the top 1.0 foot of soil were to be removed, the underlying soil (1.0 to 3.0 feet) were excavated and managed separately would not be classified as a California-hazardous waste since the 90% UCL-predicted WET soluble lead concentration is less than the STLC value for lead of 5.0 mg/l.

If the top 2.0 to 3.0 feet of soil is excavated and managed as a whole, then soil generated from the top 2.0 to 3.0 feet would not be classified as a California-hazardous waste since the 90% and 95% UCL-predicted WET soluble lead concentrations are less than the STLC value for lead of 5.0 mg/l. Consequently, the top 2.0 to 3.0 feet of excavated soil could be reused onsite or disposed of as non-hazardous soil with respect to lead content. It is our understanding that proposed trenching at this location will be to a depth of 3.0 feet.

6.16 Data Population #16 - Highway 267 PM 0.25

Soil materials excavated to the maximum sampling depth of 3.0 feet within this area would not be classified as a California hazardous waste since the calculated 90% and 95% total lead UCLs are less than 50 mg/kg. Consequently, soil generated from excavations to 3.0 feet or shallower could be reused or disposed of as non-hazardous soil with respect to lead content.

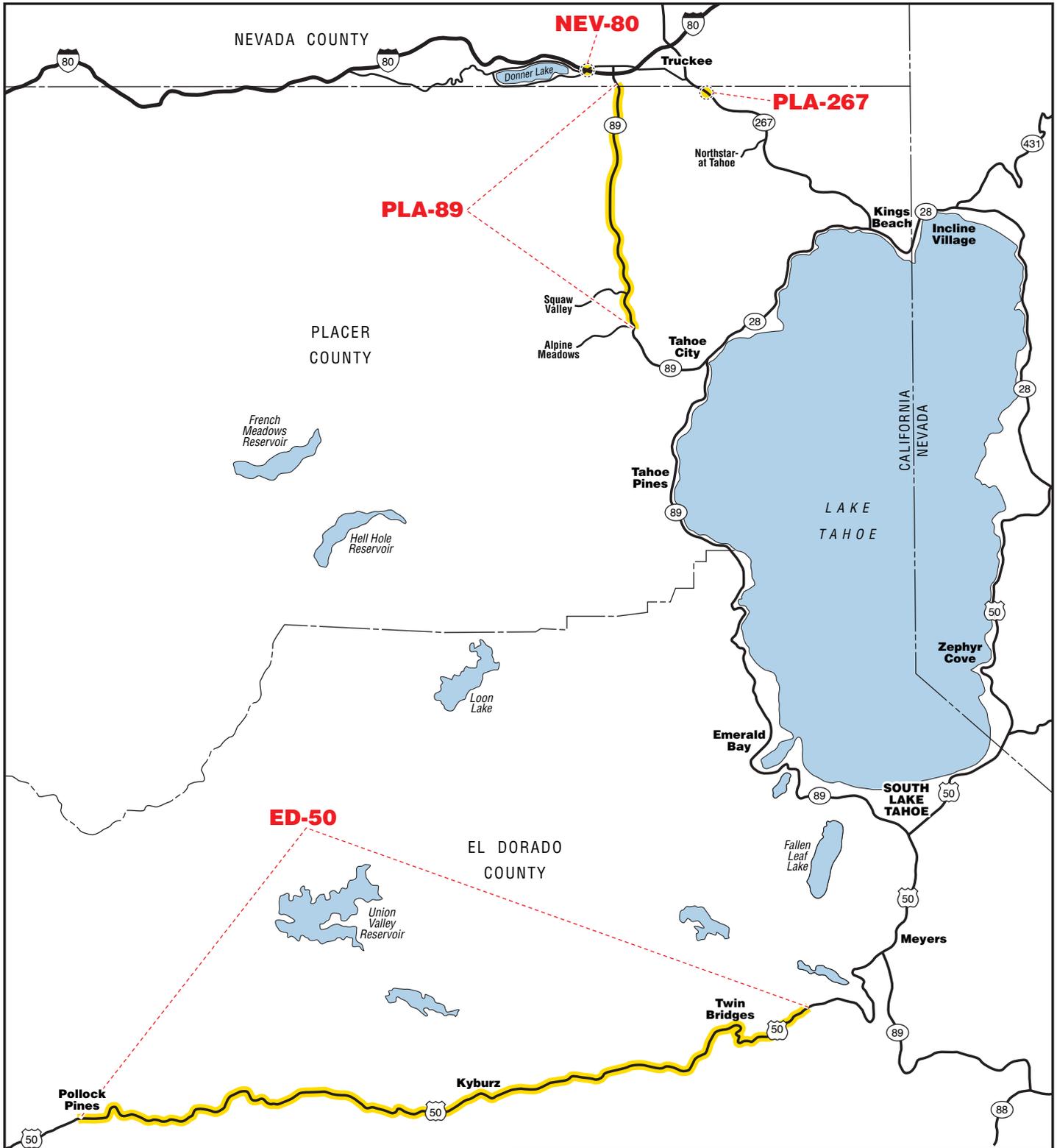
6.17 Worker Protection

Per Caltrans' requirements, the contractor(s) should prepare a project-specific Lead Compliance Plan (CCR Title 8, Section 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.



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Highways 50, 80, 89 and 267

El Dorado, Placer & Nevada
Counties, California

VICINITY MAP

GEOCON Proj. No. S9300-06-112

Task Order No. 112

May 2010

Figure 1



LEGEND:

- ESL
- RW/PROPERTY LINE
- - - EXISTING ELECTRICAL LINE
- Ⓛ PROPOSED FACILITY LOCATION
- - - PROPOSED TRENCHING/BORING

LEGEND:

⊗ Approximate Hand-Auger Boring Location



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SITE PLAN
Highway 50, PM 30.5

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Figure 2-1



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SITE PLAN
Highway 50, PM 39.7

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Task Order No. 112

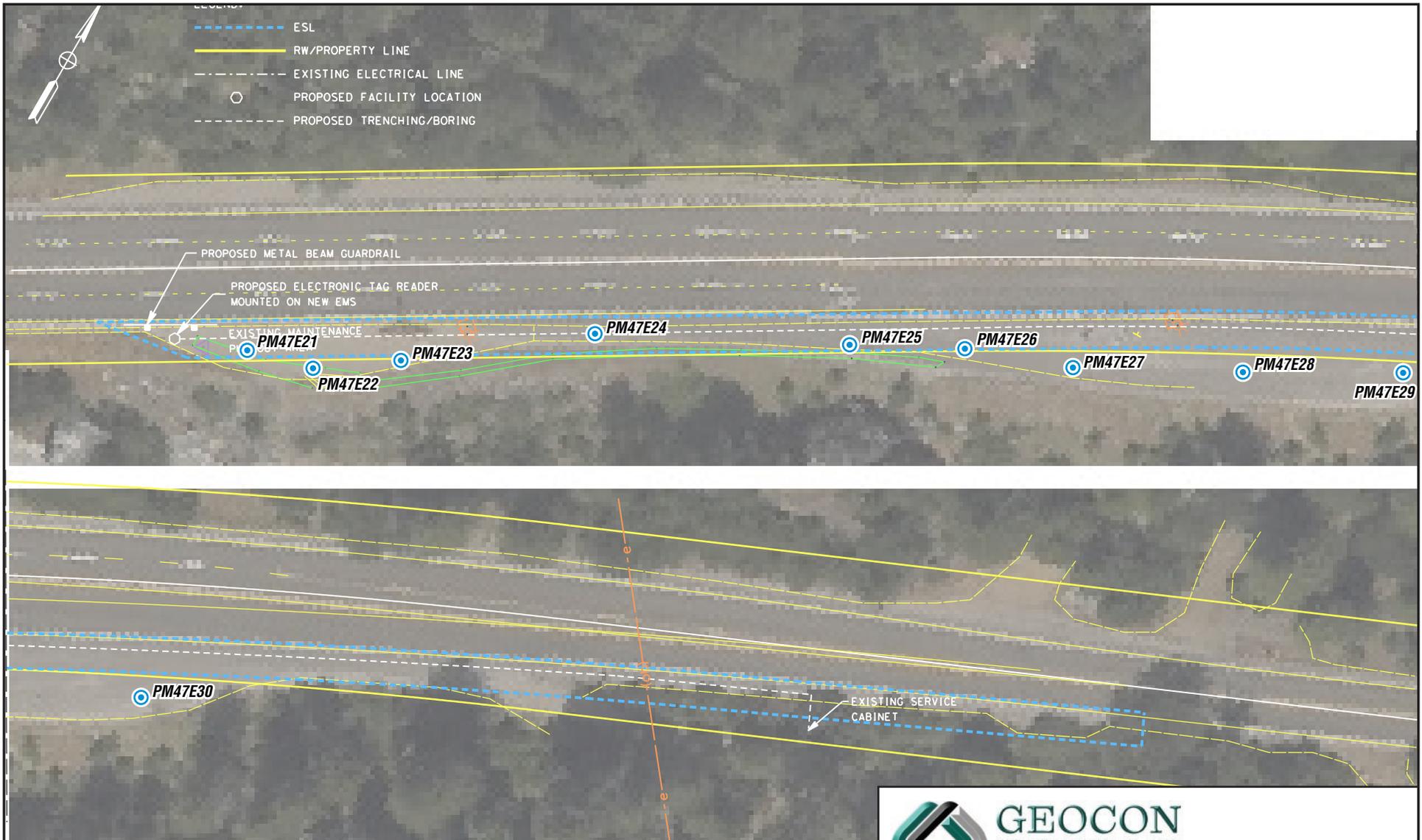
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Figure 2-2

LEGEND:

⊗ Approximate Hand-Auger Boring Location





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SITE PLAN
Highway 50, PM 47.3

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Figure 2-3

LEGEND:

⊙ Approximate Direct-Push Boring Location



HORIZONTAL DATUM: ASSUMED
 VERTICAL DATUM: ASSUMED
 SEE README ATTACHED TO SR07114_EA1C112/07114_TORE0

LEGEND:

-  ESL
-  RW/PROPERTY LINE
-  EXISTING ELECTRICAL LINE
-  PROPOSED FACILITY LOCATION
-  PROPOSED TRENCHING/BORING



LEGEND:

-  Approximate Hand-Auger Boring Location



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Highway 50, PM 50.8

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Figure 2-4



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El Dorado, Placer & Nevada Counties, California		SITE PLAN Highway 50, PM 53.2
GEOCON Proj. No. S9300-06-112		
Task Order No. 112	May 2010	Figure 2-5

LEGEND:

⊗ Approximate Hand-Auger Boring Location





LEGEND:

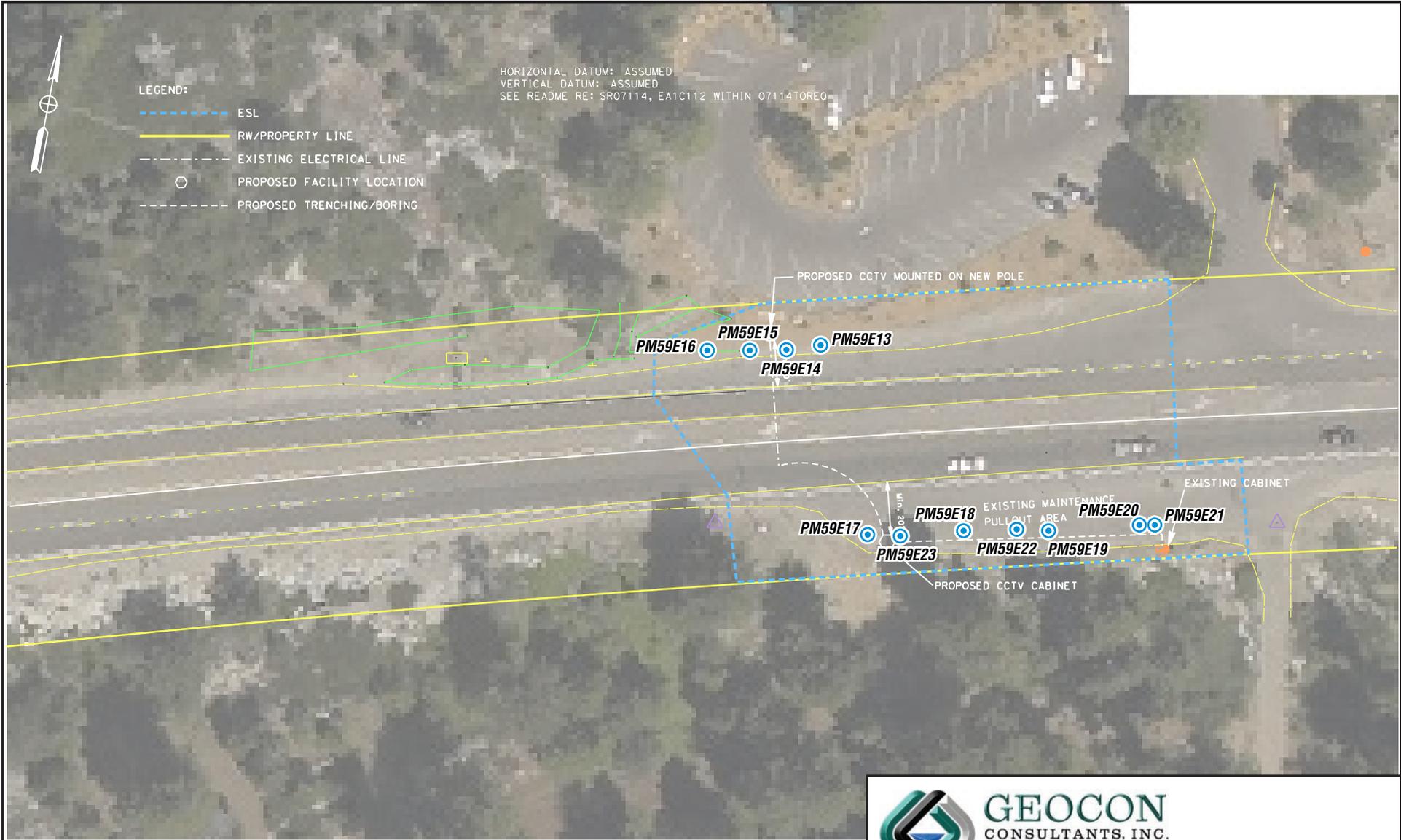
- - - - - ESL
- RW/PROPERTY LINE
- - - - - EXISTING ELECTRICAL LINE
- PROPOSED FACILITY LOCATION
- - - - - PROPOSED TRENCHING/BORING

LEGEND:

○ Approximate Direct-Push Boring Location



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Highways 50, 80, 89 and 267		
El Dorado, Placer & Nevada Counties, California		SITE PLAN
GEOCON Proj. No. S9300-06-112		Highway 50, PM 58.9
Task Order No. 112	May 2010	Figure 2-6



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SITE PLAN
Highway 50, PM 59.7

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Task Order No. 112

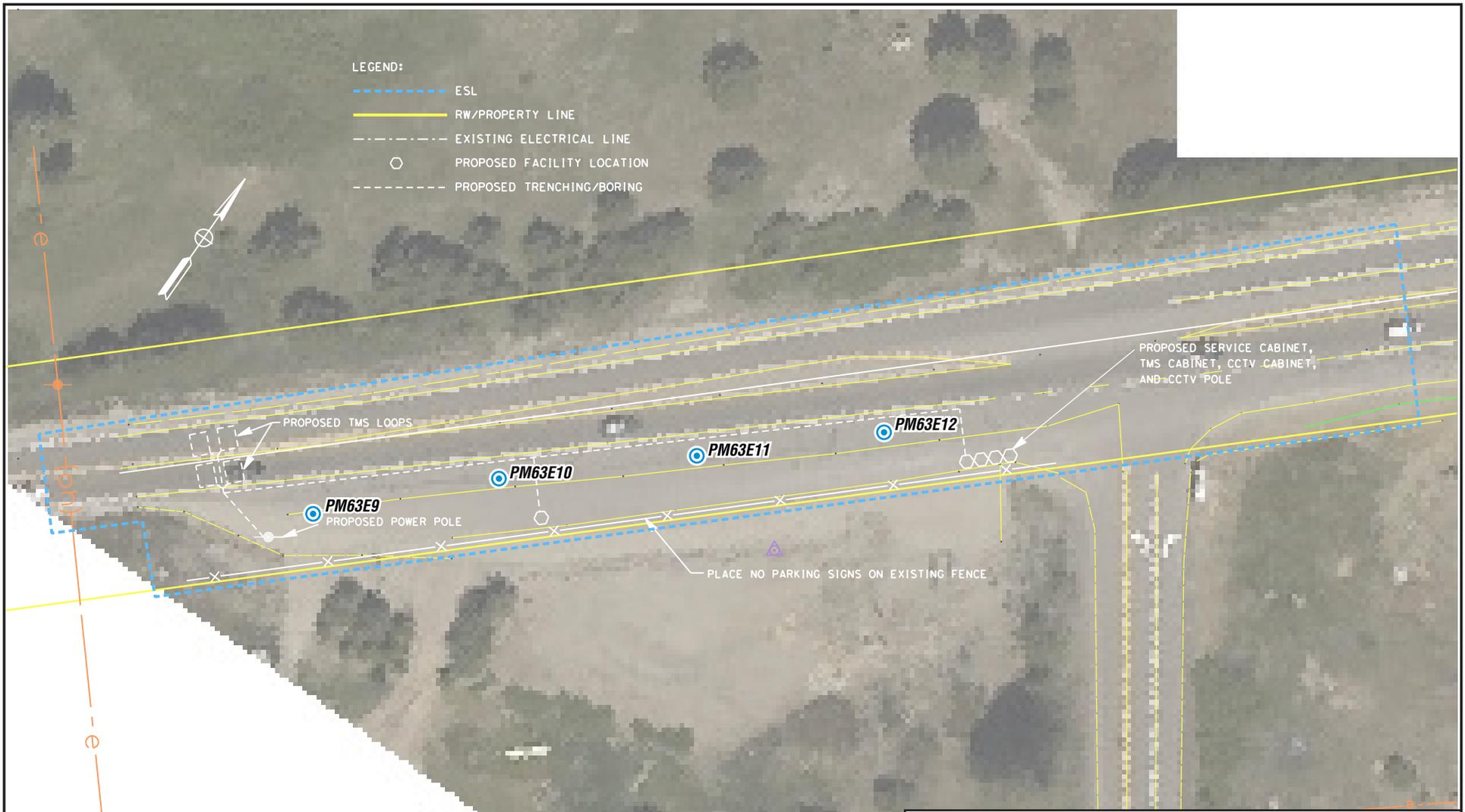
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Figure 2-7

LEGEND:

○ Approximate Direct-Push Boring Location





- LEGEND:
- - - - - ESL
 - RW/PROPERTY LINE
 - - - - - EXISTING ELECTRICAL LINE
 - PROPOSED FACILITY LOCATION
 - - - - - PROPOSED TRENCHING/BORING

LEGEND:

- ⊙ Approximate Direct-Push Boring Location



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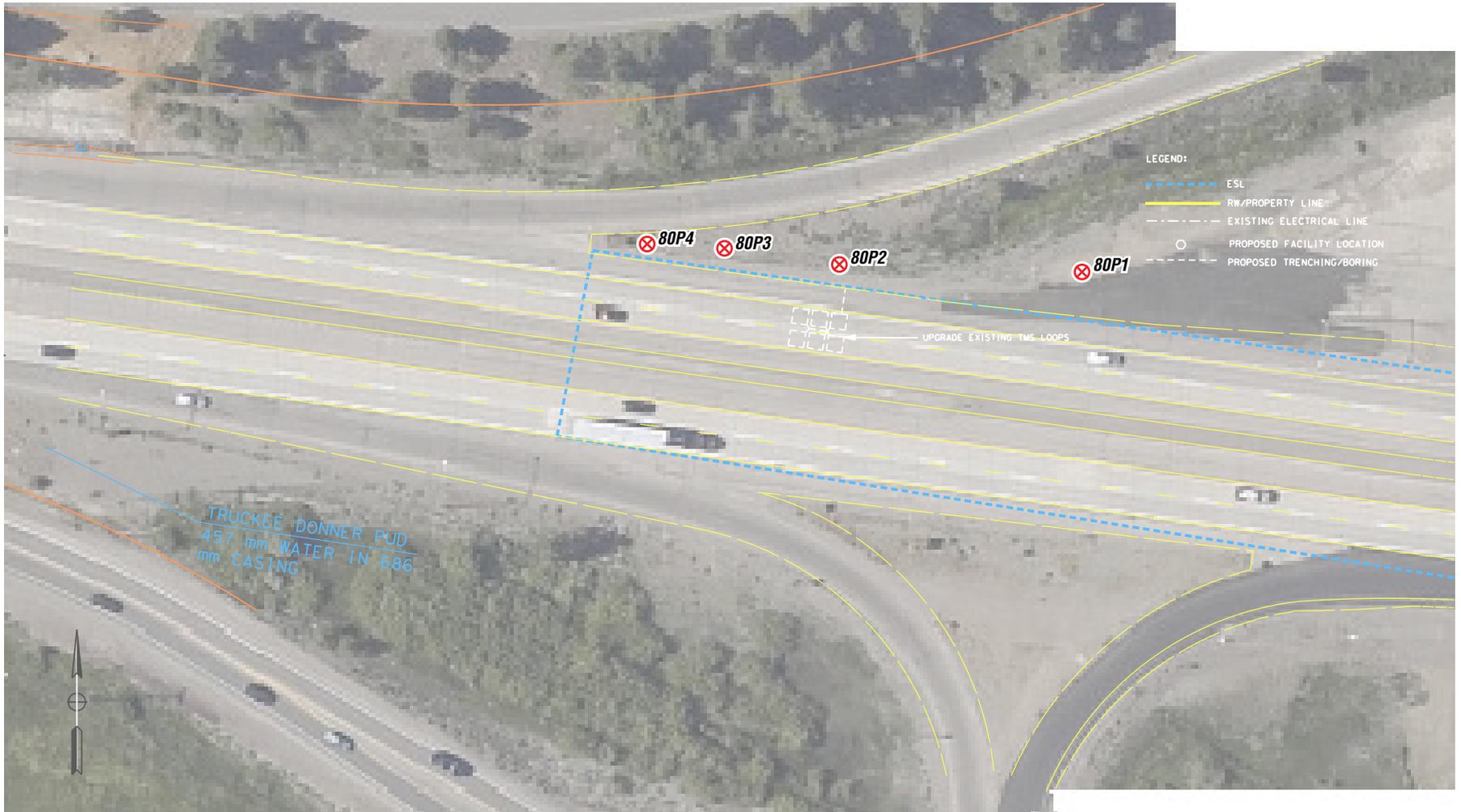
SITE PLAN
Highway 50, PM 63.7

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Figure 2-8



LEGEND:

⊗ Approximate Hand-Auger Boring Location



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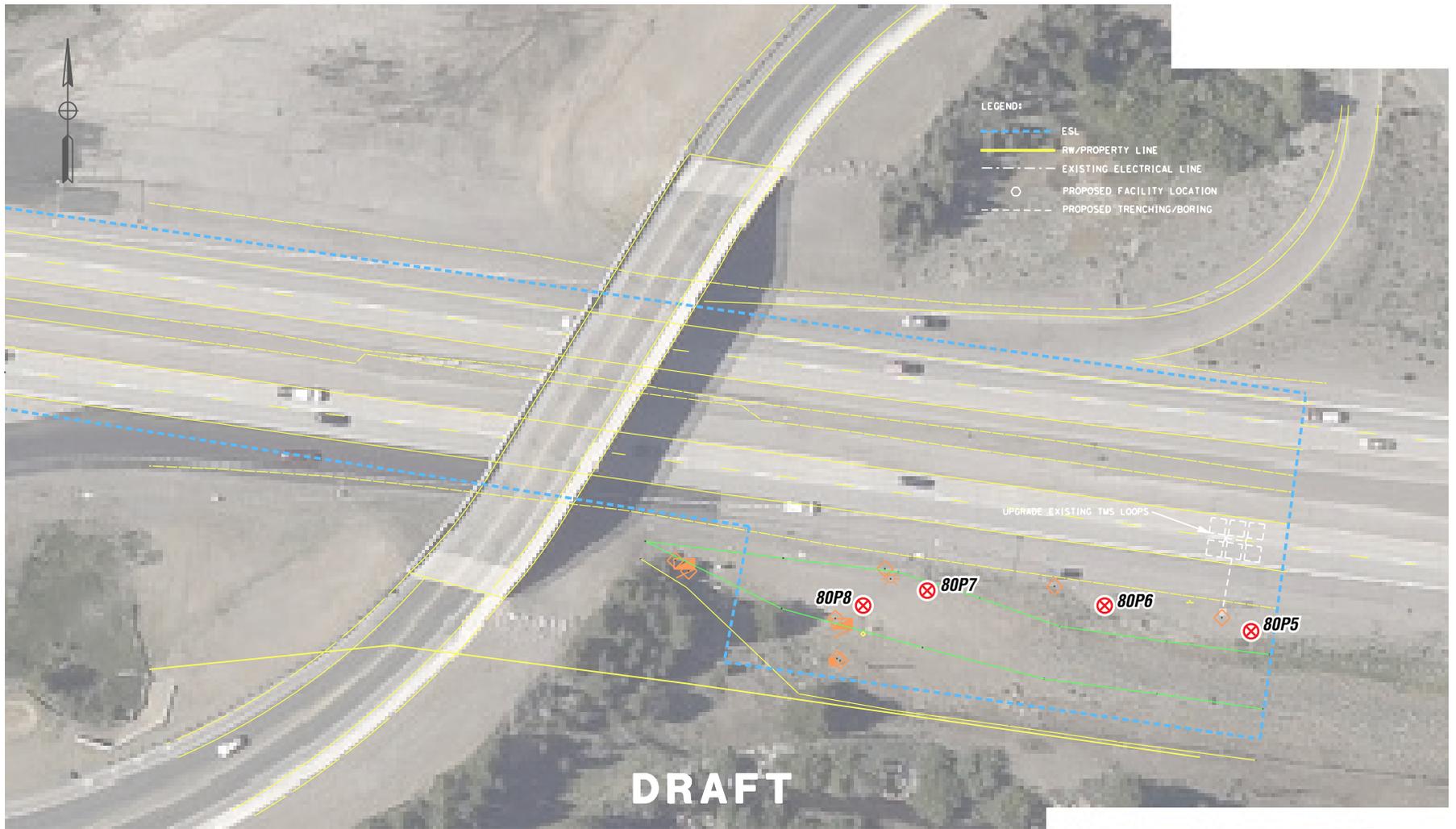
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Task Order No. 112

SITE PLAN
Highway 80,
PM 12.7 WB

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Figure 2-9



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SITE PLAN
Highway 80,
PM 12.7 EB

May 2010

Figure 2-10

LEGEND:

⊗ Approximate Hand-Auger Boring Location





LEGEND:

- ESL
- RW/PROPERTY LINE
- EXISTING ELECTRICAL LINE
- PROPOSED FACILITY LOCATION
- PROPOSED TRENCHING/BORING

LEGEND:

- Approximate Direct-Push Boring Location



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Task Order No. 112

SITE PLAN
Highway 89, PM 12.4

May 2010

Figure 2-11



- LEGEND:
- - - - - ESL
 - RW/PROPERTY LINE
 - - - - - EXISTING ELECTRICAL LINE
 - PROPOSED FACILITY LOCATION
 - - - - - PROPOSED TRENCHING/BORING

PROPOSED SERVICE CABINET
 PROPOSED HAR CABINET
 PROPOSED ANTENNA TO BE
 MOUNTED ON NEW POLE

Min. 20'
 Min. 10'

LOCATION 8A



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SITE PLAN
Highway 89, PM 13.7

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May 2010

Figure 2-12

LEGEND:

- 89P24
- Approximate Direct-Push Boring Location





- LEGEND:
- - - - - ESL
 - RW/PROPERTY LINE
 - - - - - EXISTING ELECTRICAL LINE
 - PROPOSED FACILITY LOCATION
 - - - - - PROPOSED TRENCHING/BORING

LEGEND:

- Approximate Direct-Push Boring Location



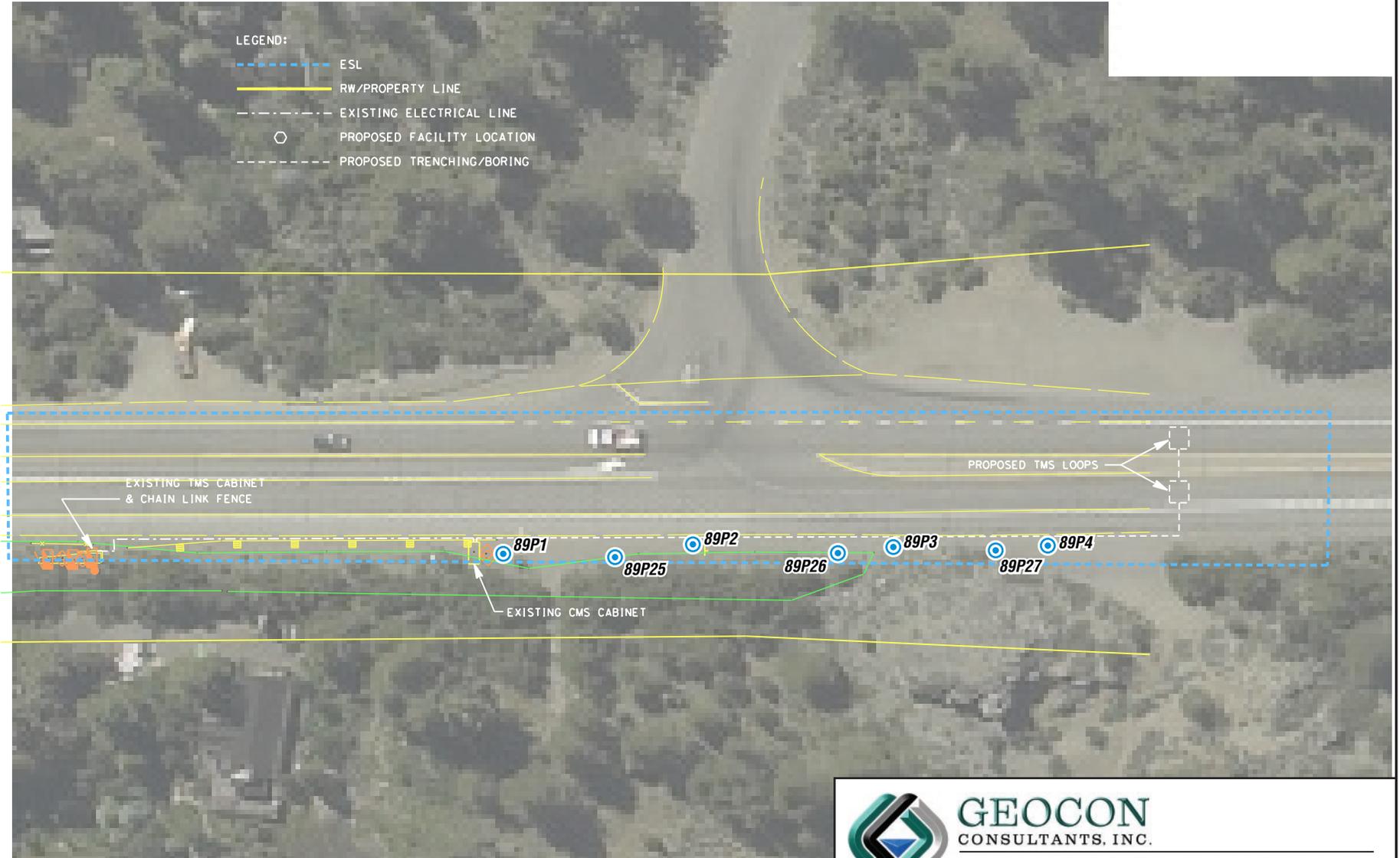

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Highways 50, 80, 89 and 267		
El Dorado, Placer & Nevada Counties, California		SITE PLAN Highway 89, PM 15.6
GEOCON Proj. No. S9300-06-112		
Task Order No. 112	May 2010	Figure 2-13



LEGEND:

- - - - - ESL
- RW/PROPERTY LINE
- - - - - EXISTING ELECTRICAL LINE
- PROPOSED FACILITY LOCATION
- - - - - PROPOSED TRENCHING/BORING



LEGEND:

- Approximate Direct-Push Boring Location



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Figure 2-14




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3160 GOLD VALLEY DR - SUITE 800 - RANCHO CORDOVA, CA 95742
PHONE 916.852.9118 - FAX 916.852.9132

Highways 50, 80, 89 and 267

El Dorado, Placer & Nevada
Counties, California
GEOCON Proj. No. S9300-06-112

SITE PLAN
Highway 267, PM 0.25

Task Order No. 112

May 2010

Figure 2-15

LEGEND:

⊗ Approximate Hand-Auger Boring Location





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Highways 50, 80, 89 and 267

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SITE PLAN
Highway 267, PM 0.25

GEOCON Proj. No. S9300-06-112

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May 2010

Figure 2-16

LEGEND:

⊗ Approximate Hand-Auger Boring Location



TABLE I
 SUMMARY OF SOIL BORING COORDINATES AND LEAD ANALYTICAL RESULTS
 HIGHWAYS 50, 80, 89 AND 267
 EL DORADO, PLACER AND NEVADA COUNTIES, CALIFORNIA

BORING ID	SAMPLE DATE	LATITUDE	LONGITUDE	TOTAL LEAD (mg/kg)	WET LEAD/(TCLP) (mg/l)
Highway 50, Post Mile 30.5					
PM30.5E1-0	3/30/2010	NA	NA	5.9	---
PM30.5E1-1	3/30/2010			13	---
PM30.5E1-2	3/30/2010			15	---
PM30.5E2-0	3/30/2010	NA	NA	77	5.3
PM30.5E2-1	3/30/2010			15	---
PM30.5E2-2	3/30/2010			11	---
PM30.5E3-0	3/30/2010	NA	NA	29	---
PM30.5E3-1	3/30/2010			12	---
PM30.5E3-2	3/30/2010			13	---
PM30.5E4-0	3/30/2010	NA	NA	150	6.9 (0.53)
PM30.5E4-1	3/30/2010			28	---
PM30.5E4-2	3/30/2010			14	---
PM30.5E5-0	3/30/2010	NA	NA	27	---
PM30.5E5-1	3/30/2010			17	---
PM30.5E5-2	3/30/2010			13	---
PM30.5E6-0	3/30/2010	NA	NA	26	---
PM30.5E6-1	3/30/2010			14	---
PM30.5E6-2	3/30/2010			12	---
PM30.5E7-0	3/30/2010	NA	NA	44	---
PM30.5E7-1	3/30/2010			11	---
PM30.5E7-2	3/30/2010			14	---
PM30.5E8-0	3/30/2010	NA	NA	84	0.32
PM30.5E8-1	3/30/2010			13	---
PM30.5E8-2	3/30/2010			13	---
Highway 50, Post Mile 39.7					
PM39E1-0	3/30/2010	NA	NA	<5.0	---
PM39E1-2	3/30/2010			<5.0	---
PM39E2-0	3/30/2010	NA	NA	<5.0	---
PM39E2-2	3/30/2010			<5.0	---
PM39E3-0	3/30/2010	NA	NA	<5.0	---
PM39E3-2	3/30/2010			<5.0	---
PM39E4-0	3/30/2010	NA	NA	<5.0	---
PM39E4-2	3/30/2010			<5.0	---

TABLE 1
SUMMARY OF SOIL BORING COORDINATES AND LEAD ANALYTICAL RESULTS
HIGHWAYS 50, 80, 89 AND 267
EL DORADO, PLACER AND NEVADA COUNTIES, CALIFORNIA

BORING ID	SAMPLE DATE	LATITUDE	LONGITUDE	TOTAL LEAD (mg/kg)	WET LEAD/(TCLP) (mg/l)
Highway 50, Post Mile 47.3					
PM47 E21-0	12/9/2009	38.764625496	-120.322588096	90	---
PM47 E21-1	12/9/2009			70	---
PM47 E21-2	12/9/2009			<5.0	---
PM47 E22-0	12/9/2009	38.764681537	-120.322434019	<5.0	---
PM47 E22-1	12/9/2009			5.0	---
PM47 E22-2	12/9/2009			8.0	---
PM47 E23-0	12/9/2009	38.764749575	-120.322309987	6.5	---
PM47 E23-1	12/9/2009			9.3	---
PM47 E23-2	12/9/2009			6.3	---
PM47 E24-0	12/9/2009	38.764886383	-120.322024795	34	---
PM47 E24-1	12/9/2009			12	---
PM47 E24-2	12/9/2009			<5.0	---
PM47 E25-0	12/9/2009	38.764963539	-120.321817228	15	---
PM47 E25-1	12/9/2009			40	---
PM47 E25-2	12/9/2009			<5.0	---
PM47 E26-0	12/9/2009	38.765020469	-120.321623853	8.5	---
PM47 E26-1	12/9/2009			17	---
PM47 E26-2	12/9/2009			9.4	---
PM47 E27-0	12/9/2009	38.765090608	-120.321433638	9.3	---
PM47 E27-1	12/9/2009			7.4	---
PM47 E28-0	12/9/2009	38.765151556	-120.321253828	6.0	---
PM47 E28-1	12/9/2009			<5.0	---
PM47 E29-0	12/9/2009	38.765208831	-120.321089924	12	---
PM47 E29-1	12/9/2009			6.7	---
PM47 E30-0	12/9/2009	38.765279417	-120.320989964	15	---
PM47 E30-1	12/9/2009			8.3	---
PM47 E30-2	12/9/2009			6.2	---
Highway 50, Post Mile 50.8					
PM50E5-0	12/3/2009	38.776580166	-120.266178779	11	---
PM50E5-1	12/3/2009			43	---
PM50E6-0	12/3/2009	38.776543029	-120.266276618	12	---
PM50E6-1	12/3/2009			20	---
PM50E6-2	12/3/2009			13	---
PM50E7-0	12/3/2009	38.776552381	-120.266349067	12	---

TABLE I
 SUMMARY OF SOIL BORING COORDINATES AND LEAD ANALYTICAL RESULTS
 HIGHWAYS 50, 80, 89 AND 267
 EL DORADO, PLACER AND NEVADA COUNTIES, CALIFORNIA

BORING ID	SAMPLE DATE	LATITUDE	LONGITUDE	TOTAL LEAD (mg/kg)	WET LEAD/(TCLP) (mg/l)
PM50E7-1	12/3/2009			15	---
PM50E7-2	12/3/2009			<5.0	---
PM50E8-0	12/3/2009	38.776561024	-120.266422248	<5.0	---
PM50E8-1	12/3/2009			12	---
PM50E8-2	12/3/2009			27	---
Hwy 50, Post Mile 53.2					
PM53E1-0	12/3/2009	38.783279007	-120.224157779	8.7	---
PM53E1-1	12/3/2009			9.1	---
PM53E1-2	12/3/2009			56	---
PM53E2-0	12/3/2009	38.783247240	-120.224267746	6.4	---
PM53E2-1	12/3/2009			12	---
PM53E2-2	12/3/2009			53	---
PM53E3-0	12/3/2009	38.783262367	-120.224389972	8.0	---
PM53E3-1	12/3/2009			48	---
PM53E3-2	12/3/2009			94	---
PM53E4-0	12/3/2009	38.783250014	-120.224489566	25	---
PM53E4-1	12/3/2009			16	---
PM53E4-2	12/3/2009			46	---
PM53E5-0	3/30/2010	NA	NA	7.4	---
PM53E5-2	3/30/2010			6.5	---
PM53E6-0	3/30/2010	NA	NA	6.7	---
PM53E6-2	3/30/2010			6.9	---
PM53E7-0	3/30/2010	NA	NA	8.7	---
PM53E7-2	3/30/2010			11	---
PM53E8-0	3/30/2010	NA	NA	6.6	---
PM53E8-2	3/30/2010			6.6	---
Highway 50, Post Mile 58.9					
PM58 E31-0	12/9/2009	38.807699681	-120.137035563	51	---
PM58 E31-1	12/9/2009			6.3	---
PM58 E31-2	12/9/2009			<5.0	---
PM58 E32-0	12/9/2009	38.807717282	-120.136936294	44	---
PM58 E32-1	12/9/2009			22	---
PM58 E32-2	12/9/2009			45	---
PM58 E33-0	12/9/2009	38.807782830	-120.136835153	9.9	---
PM58 E33-1	12/9/2009			15	---

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 SUMMARY OF SOIL BORING COORDINATES AND LEAD ANALYTICAL RESULTS
 HIGHWAYS 50, 80, 89 AND 267
 EL DORADO, PLACER AND NEVADA COUNTIES, CALIFORNIA

BORING ID	SAMPLE DATE	LATITUDE	LONGITUDE	TOTAL LEAD (mg/kg)	WET LEAD/(TCLP) (mg/l)
PM58 E34-0	12/9/2009	38.807796481	-120.136877052	11	---
PM58 E34-1	12/9/2009			29	---
PM58 E34-2	12/9/2009			22	---
Highway 50, Post Mile 59.7 (westbound)					
PM59 E13-0	12/9/2009	38.811212357	-120.124317245	<5.0	---
PM59 E13-1	12/9/2009			9.5	---
PM59 E13-2	12/9/2009			6.1	---
PM59 E14-0	12/9/2009	38.811185907	-120.124350035	8.7	---
PM59 E14-1	12/9/2009			8.8	---
PM59 E14-2	12/9/2009			44	---
PM59 E15-0	12/9/2009	38.811175911	-120.124401037	6.9	---
PM59 E15-1	12/9/2009			12	---
PM59 E16-0	12/9/2009	38.811165238	-120.124455268	14	---
PM59 E16-1	12/9/2009			5.5	---
Highway 50, Post Mile 59.7 (eastbound)					
PM59 E17-0	12/9/2009	38.810991193	-120.124070229	27	---
PM59 E17-1	12/9/2009			39	---
PM59 E17-2	12/9/2009			34	---
PM59 E18-0	12/9/2009	38.811010678	-120.123911707	33	---
PM59 E18-1	12/9/2009			18	---
PM59 E18-2	12/9/2009			54	---
PM59 E19-0	12/9/2009	38.811032166	-120.123819668	14	---
PM59 E19-1	12/9/2009			19	---
PM59 E19-2	12/9/2009			23	---
PM59 E20-0	12/9/2009	38.811062674	-120.123694216	15	---
PM59 E21-0	3/29/2010	NA	NA	7.2	---
PM59 E21-1	3/29/2010			25	---
PM59 E21-2	3/29/2010			15	---
PM59 E22-0	3/29/2010	NA	NA	85	---
PM59 E22-1	3/29/2010			5.8	---
PM59 E22-2	3/29/2010			5.7	---
PM59 E23-0	3/29/2010	NA	NA	14	---
PM59 E23-1	3/29/2010			39	---
PM59 E23-2	3/29/2010			53	---

TABLE I
 SUMMARY OF SOIL BORING COORDINATES AND LEAD ANALYTICAL RESULTS
 HIGHWAYS 50, 80, 89 AND 267
 EL DORADO, PLACER AND NEVADA COUNTIES, CALIFORNIA

BORING ID	SAMPLE DATE	LATITUDE	LONGITUDE	TOTAL LEAD (mg/kg)	WET LEAD/(TCLP) (mg/l)
Highway 50, Post Mile 63.7					
PM63 E9-0	12/9/2009	38.818732768	-120.076586794	9.1	---
PM63 E9-1	12/9/2009			<5.0	---
PM63 E9-2	12/9/2009			<5.0	---
PM63 E10-0	12/9/2009	38.818862936	-120.076402459	5.5	---
PM63 E10-1	12/9/2009			<5.0	---
PM63 E10-2	12/9/2009			<5.0	---
PM63 E11-0	12/9/2009	38.818938566	-120.076276419	<5.0	---
PM63 E11-1	12/9/2009			14	---
PM63 E11-2	12/9/2009			<5.0	---
PM63 E12-0	12/9/2009	38.819069773	-120.076074987	8.7	---
PM63 E12-1	12/9/2009			12	---
PM63 E12-2	12/9/2009			11	---
Hwy 80, Post Mile 12.7 (westbound)					
80P1-0	12/2/2009	39.324687932	-120.227381439	6.1	---
80P1-1	12/2/2009			32	---
80P2-0	12/2/2009	39.324660829	-120.227709785	16	---
80P2-1	12/2/2009			10	---
80P3-0	12/2/2009	39.324708627	-120.227842346	22	---
80P3-1	12/2/2009			21	---
80P3-2	12/2/2009			15	---
80P4-0	12/2/2009	39.324728185	-120.228047433	21	---
80P4-1	12/2/2009			12	---
80P4-2	12/2/2009			9.1	---
Highway 80, Post Mile 12.7 (eastbound)					
80P5-0	12/2/2009	39.323915563	-120.224529024	<5.0	---
80P5-1	12/2/2009			<5.0	---
80P5-2	12/2/2009			<5.0	---
80P6-0	12/2/2009	39.323950993	-120.224807675	<5.0	---
80P6-1	12/2/2009			<5.0	---
80P7-0	12/2/2009	39.323987383	-120.225063620	<5.0	---
80P7-1	12/2/2009			<5.0	---
80P8-0	12/2/2009	39.323995214	-120.225284236	17	---

TABLE 1
 SUMMARY OF SOIL BORING COORDINATES AND LEAD ANALYTICAL RESULTS
 HIGHWAYS 50, 80, 89 AND 267
 EL DORADO, PLACER AND NEVADA COUNTIES, CALIFORNIA

BORING ID	SAMPLE DATE	LATITUDE	LONGITUDE	TOTAL LEAD (mg/kg)	WET LEAD/(TCLP) (mg/l)
Highway 89, Post Mile 12.4					
89P9-0	12/8/2009	39.187327152	-120.194981268	6.3	---
89P9-1	12/8/2009			<5.0	---
89P9-2	12/8/2009			<5.0	---
89P10-0	12/8/2009	39.187380751	-120.195002601	8.3	---
89P10-1	12/8/2009			5.9	---
89P10-2	12/8/2009			7.0	---
89P11-0	12/8/2009	39.187434467	-120.195034759	9.6	---
89P11-1	12/8/2009			6.4	---
89P11-2	12/8/2009			6.2	---
89P12-0	12/8/2009	39.187479483	-120.195040811	8.9	---
89P12-1	12/8/2009			8.5	---
89P12-2	12/8/2009			5.2	---
Highway 89, Post Mile 13.7					
89P13-0	12/8/2009	39.203813615	-120.200066687	49	---
89P13-1	12/8/2009			16	---
89P13-2	12/8/2009			7.5	---
89P14-0	12/8/2009	39.203712740	-120.200118203	39	---
89P14-1	12/8/2009			8.1	---
89P14-2	12/8/2009			5.0	---
89P15-0	12/8/2009	39.203589753	-120.200164440	86	---
89P15-1	12/8/2009			7.9	---
89P15-2	12/8/2009			5.6	---
89P16-0	12/8/2009	39.203492964	-120.200217674	400	---
89P16-1	12/8/2009			6.3	---
89P16-2	12/8/2009			8.4	---
89P17-0	3/29/2010	NA	NA	57	2.7
89P17-1	3/29/2010			7.1	---
89P17-2	3/29/2010			<5.0	---
89P19-0	3/29/2010	NA	NA	34	---
89P19-1	3/29/2010			6.7	---
89P19-2	3/29/2010			8.2	---
89P21-0	3/29/2010	NA	NA	24	---
89P21-1	3/29/2010			6.2	---
89P21-2	3/29/2010			6.5	---
89P23-0	3/29/2010	NA	NA	100	7.4 (0.60)

TABLE 1
SUMMARY OF SOIL BORING COORDINATES AND LEAD ANALYTICAL RESULTS
HIGHWAYS 50, 80, 89 AND 267
EL DORADO, PLACER AND NEVADA COUNTIES, CALIFORNIA

BORING ID	SAMPLE DATE	LATITUDE	LONGITUDE	TOTAL LEAD (mg/kg)	WET LEAD/(TCLP) (mg/l)
89P23-1	3/29/2010			10	---
89P23-2	3/29/2010			6.2	---
Highway 89, Post Mile 15.6					
89P5-0	12/8/2009	39.231048584	-120.205825483	24	---
89P5-1	12/8/2009			7.5	---
89P5-2	12/8/2009			<5.0	---
89P6-0	12/8/2009	39.230947509	-120.205835003	5.5	---
89P6-1	12/8/2009			<5.0	---
89P6-2	12/8/2009			<5.0	---
89P7-0	12/8/2009	39.230843075	-120.205843281	<5.0	---
89P7-1	12/8/2009			<5.0	---
89P7-2	12/8/2009			<5.0	---
89P8-0	12/8/2009	39.230722326	-120.205844167	20	---
89P8-1	12/8/2009			<5.0	---
89P8-2	12/8/2009			6.0	---
Highway 89, Post Mile 19.0					
89P1-0	12/8/2009	39.278031059	-120.206816364	72	---
89P1-1	12/8/2009			<5.0	---
89P1-2	12/8/2009			7.0	---
89P2-0	12/8/2009	39.278242510	-120.206819454	30	---
89P2-1	12/8/2009			<5.0	---
89P2-2	12/8/2009			7.0	---
89P3-0	12/8/2009	39.278541766	-120.206814625	44	---
89P3-1	12/8/2009			7.2	---
89P3-2	12/8/2009			5.3	---
89P4-0	12/8/2009	39.278683798	-120.206803581	53	---
89P4-1	12/8/2009			7.7	---
89P4-2	12/8/2009			<5.0	---
89P25-0	3/29/2010	NA	NA	55	2.8
89P25-1	3/29/2010			<5.0	---
89P25-2	3/29/2010			10	---
89P26-0	3/29/2010	NA	NA	16	---
89P26-1	3/29/2010			5.2	---
89P26-2	3/29/2010			5.5	---
89P27-0	3/29/2010	NA	NA	200	2.0 (0.31)
89P27-1	3/29/2010			5.4	---

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 HIGHWAYS 50, 80, 89 AND 267
 EL DORADO, PLACER AND NEVADA COUNTIES, CALIFORNIA

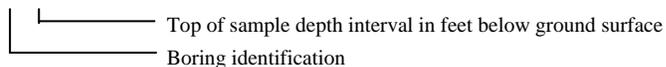
BORING ID	SAMPLE DATE	LATITUDE	LONGITUDE	TOTAL LEAD (mg/kg)	WET LEAD/(TCLP) (mg/l)
89P27-2	3/29/2010			<5.0	---
Highway 267, Post Mile 0.25					
267P1-0	12/2/2009	39.314618625	-120.148289697	12	---
267P1-1	12/2/2009			15	---
267P1-2	12/2/2009			12	---
267P2-0	12/2/2009	39.314408631	-120.148304667	<5.0	---
267P2-1	12/2/2009			<5.0	---
267P2-2	12/2/2009			8.2	---
267P3-0	12/2/2009	39.314259824	-120.147931560	7.8	---
267P3-1	12/2/2009			14	---
267P3-2	12/2/2009			19	---
267P4-0	12/2/2009	39.314063360	-120.147482922	9.0	---
267P4-1	12/2/2009			22	---
267P4-2	12/2/2009			26	---
267P5-0	12/2/2009	39.313946003	-120.147134709	7.6	---
267P5-1	12/2/2009			27	---
267P5-2	12/2/2009			6.6	---
267P6-0	12/2/2009	39.313615748	-120.146323351	17	---
267P6-1	12/2/2009			28	---
267P6-2	12/2/2009			78	---
267P7-0	12/2/2009	39.313379885	-120.145723242	<5.0	---
267P7-1	12/2/2009			48	---
267P7-2	12/2/2009			5.1	---
267P8-0	12/2/2009	39.313532264	-120.145832833	5.5	---
267P8-1	12/2/2009			50	---
267P8-2	12/2/2009			37	---
267P9-0	12/2/2009	39.313812169	-120.146490743	6.9	---
267P9-1	12/2/2009			11	---
267P9-2	12/2/2009			7.0	---
267P10-0	12/2/2009	39.313976355	-120.146868993	11	---
267P10-1	12/2/2009			12	---
267P10-2	12/2/2009			7.5	---
267P11-0	12/2/2009	39.314123049	-120.147232333	12	---
267P11-1	12/2/2009			15	---
267P12-0	12/2/2009	39.314311825	-120.147671357	22	---
267P12-1	12/2/2009			6.1	---

TABLE 1
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 HIGHWAYS 50, 80, 89 AND 267
 EL DORADO, PLACER AND NEVADA COUNTIES, CALIFORNIA

BORING ID	SAMPLE DATE	LATITUDE	LONGITUDE	TOTAL LEAD (mg/kg)	WET LEAD/(TCLP) (mg/l)
267P12-2	12/2/2009			<5.0	---

Notes:

PM47 E21-0



mg/kg = Milligrams per kilogram

mg/l = Milligrams per liter

< = Less than the laboratory reporting limits

--- = Not analyzed

NA = Not available

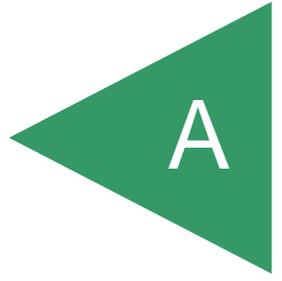
WET = Waste Extraction Test analyzed by EPA Method 7420

TCLP = Toxicity Characteristic Leaching Procedure

Concentrations in **bold** type are greater than or equal to the Soluble Threshold Limit Concentration value for lead of 5.0 mg/l

APPENDIX

A



December 18, 2009



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ELAP No.: 1838
NELAP No.: 02107CA
NEVADA.: CA-401
CSDLAC No.: 10196

Workorder No.: 109121

RE: Hwy 267, I-80, 89, 50 ADL, S9300-06-112

Attention: John Juhrend

Enclosed are the results for sample(s) received on December 11, 2009 by Advanced Technology Laboratories . The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

Thank you for the opportunity to service the needs of your company.

Please feel free to call me at (562)989-4045 if I can be of further assistance to your company.

Sincerely,

A handwritten signature in black ink, appearing to be "E. Rodriguez".

Eddie F. Rodriguez
Laboratory Director

The cover letter and the case narrative are an integral part of this analytical report and cannot be reproduced in part or in its entirety without written permission from the client and Advanced Technology Laboratories.



CLIENT: Geocon Consultants, Inc.
Project: Hwy 267, I-80, 89, 50 ADL, S9300-06-112
Lab Order: 109121

CASE NARRATIVE

Analytical Comments for Method 6010

RPD for Duplicate (DUP) is outside criteria for samples 109121-012ADUP, 109121-022ADUP, 109121-062ADUP, 109121-102ADUP and 109121-112ADUP; however, the Laboratory Control Sample (LCS) validated the analytical batch.



**LEAD BY ICP
EPA 6010B**

ANALYTICAL RESULTS

CLIENT:	Geocon Consultants, Inc.	Lab Order:	109121
Project:	Hwy 267, I-80, 89, 50 ADL, S9300-06-112	Date Received	12/11/2009 8:50:00 AM
Project No:		Matrix:	Soil
Analyte:	Lead	Analyst:	CL

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
109121-001A	89P1-0	72	mg/Kg	60483	5.0	1	12/8/2009	12/16/2009
109121-002A	89P1-1	ND	mg/Kg	60483	5.0	1	12/8/2009	12/16/2009
109121-003A	89P1-2	7.0	mg/Kg	60484	5.0	1	12/8/2009	12/16/2009
109121-004A	89P2-0	30	mg/Kg	60484	5.0	1	12/8/2009	12/16/2009
109121-005A	89P2-1	ND	mg/Kg	60484	5.0	1	12/8/2009	12/16/2009
109121-006A	89P2-2	7.0	mg/Kg	60484	5.0	1	12/8/2009	12/16/2009
109121-007A	89P3-0	44	mg/Kg	60484	5.0	1	12/8/2009	12/16/2009
109121-008A	89P3-1	7.2	mg/Kg	60484	5.0	1	12/8/2009	12/16/2009
109121-009A	89P3-2	5.3	mg/Kg	60484	5.0	1	12/8/2009	12/16/2009
109121-010A	89P4-0	53	mg/Kg	60484	5.0	1	12/8/2009	12/16/2009
109121-011A	89P4-1	7.7	mg/Kg	60484	5.0	1	12/8/2009	12/16/2009
109121-012A	89P4-2	ND	mg/Kg	60484	5.0	1	12/8/2009	12/16/2009
109121-013A	89P5-0	24	mg/Kg	60484	5.0	1	12/8/2009	12/16/2009
109121-014A	89P5-1	7.5	mg/Kg	60484	5.0	1	12/8/2009	12/16/2009
109121-015A	89P5-2	ND	mg/Kg	60484	5.0	1	12/8/2009	12/16/2009
109121-016A	89P6-0	5.5	mg/Kg	60484	5.0	1	12/8/2009	12/16/2009
109121-017A	89P6-1	ND	mg/Kg	60484	5.0	1	12/8/2009	12/16/2009
109121-018A	89P6-2	ND	mg/Kg	60484	5.0	1	12/8/2009	12/16/2009

Qualifiers:	B Analyte detected in the associated Method Blank	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	ND Not Detected at the Reporting Limit
	S Spike/Surrogate outside of limits due to matrix interference	Results are wet unless otherwise specified
	DO Surrogate Diluted Out	



**LEAD BY ICP
EPA 6010B**

ANALYTICAL RESULTS

CLIENT:	Geocon Consultants, Inc.	Lab Order:	109121
Project:	Hwy 267, I-80, 89, 50 ADL, S9300-06-112	Date Received	12/11/2009 8:50:00 AM
Project No:		Matrix:	Soil
Analyte:	Lead	Analyst:	CL

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
109121-019A	89P7-0	ND	mg/Kg	60484	5.0	1	12/8/2009	12/16/2009
109121-020A	89P7-1	ND	mg/Kg	60484	5.0	1	12/8/2009	12/16/2009
109121-021A	89P7-2	ND	mg/Kg	60484	5.0	1	12/8/2009	12/16/2009
109121-022A	89P8-0	20	mg/Kg	60484	5.0	1	12/8/2009	12/16/2009
109121-023A	89P8-1	ND	mg/Kg	60485	5.0	1	12/8/2009	12/16/2009
109121-024A	89P8-2	6.0	mg/Kg	60485	5.0	1	12/8/2009	12/16/2009
109121-025A	89P9-0	6.3	mg/Kg	60485	5.0	1	12/8/2009	12/16/2009
109121-026A	89P9-1	ND	mg/Kg	60485	5.0	1	12/8/2009	12/16/2009
109121-027A	89P9-2	ND	mg/Kg	60485	5.0	1	12/8/2009	12/16/2009
109121-028A	89P10-0	8.3	mg/Kg	60485	5.0	1	12/8/2009	12/16/2009
109121-029A	89P10-1	5.9	mg/Kg	60485	5.0	1	12/8/2009	12/16/2009
109121-030A	89P10-2	7.0	mg/Kg	60485	5.0	1	12/8/2009	12/16/2009
109121-031A	89P11-0	9.6	mg/Kg	60485	5.0	1	12/8/2009	12/16/2009
109121-032A	89P11-1	6.4	mg/Kg	60485	5.0	1	12/8/2009	12/16/2009
109121-033A	89P11-2	6.2	mg/Kg	60485	5.0	1	12/8/2009	12/16/2009
109121-034A	89P12-0	8.9	mg/Kg	60485	5.0	1	12/8/2009	12/16/2009
109121-035A	89P12-1	8.5	mg/Kg	60485	5.0	1	12/8/2009	12/16/2009
109121-036A	89P12-2	5.2	mg/Kg	60485	5.0	1	12/8/2009	12/16/2009

Qualifiers:	B Analyte detected in the associated Method Blank	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	ND Not Detected at the Reporting Limit
	S Spike/Surrogate outside of limits due to matrix interference	Results are wet unless otherwise specified
	DO Surrogate Diluted Out	



**LEAD BY ICP
EPA 6010B**

ANALYTICAL RESULTS

CLIENT:	Geocon Consultants, Inc.	Lab Order:	109121
Project:	Hwy 267, I-80, 89, 50 ADL, S9300-06-112	Date Received	12/11/2009 8:50:00 AM
Project No:		Matrix:	Soil
Analyte:	Lead	Analyst:	CL

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
109121-037A	89P13-0	49	mg/Kg	60485	5.0	1	12/8/2009	12/16/2009
109121-038A	89P13-1	16	mg/Kg	60485	5.0	1	12/8/2009	12/16/2009
109121-039A	89P13-2	7.5	mg/Kg	60485	5.0	1	12/8/2009	12/16/2009
109121-040A	89P14-0	39	mg/Kg	60485	5.0	1	12/8/2009	12/16/2009
109121-041A	89P14-1	8.1	mg/Kg	60485	5.0	1	12/8/2009	12/16/2009
109121-042A	89P14-2	5.0	mg/Kg	60485	5.0	1	12/8/2009	12/16/2009
109121-043A	89P15-0	86	mg/Kg	60486	5.0	1	12/8/2009	12/16/2009
109121-044A	89P15-1	7.9	mg/Kg	60486	5.0	1	12/8/2009	12/16/2009
109121-045A	89P15-2	5.6	mg/Kg	60486	5.0	1	12/8/2009	12/16/2009
109121-046A	89P16-0	400	mg/Kg	60486	5.0	1	12/8/2009	12/16/2009
109121-047A	89P16-1	6.3	mg/Kg	60486	5.0	1	12/8/2009	12/16/2009
109121-048A	89P16-2	8.4	mg/Kg	60486	5.0	1	12/8/2009	12/16/2009
109121-049A	PM63 E9-0	9.1	mg/Kg	60486	5.0	1	12/9/2009	12/16/2009
109121-050A	PM63 E9-1	ND	mg/Kg	60486	5.0	1	12/9/2009	12/16/2009
109121-051A	PM63 E9-2	ND	mg/Kg	60486	5.0	1	12/9/2009	12/16/2009
109121-052A	PM63 E10-0	5.5	mg/Kg	60486	5.0	1	12/9/2009	12/16/2009
109121-053A	PM63 E10-1	ND	mg/Kg	60486	5.0	1	12/9/2009	12/16/2009
109121-054A	PM63 E10-2	ND	mg/Kg	60486	5.0	1	12/9/2009	12/16/2009

Qualifiers:	B Analyte detected in the associated Method Blank	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	ND Not Detected at the Reporting Limit
	S Spike/Surrogate outside of limits due to matrix interference	Results are wet unless otherwise specified
	DO Surrogate Diluted Out	



**LEAD BY ICP
EPA 6010B**

ANALYTICAL RESULTS

CLIENT:	Geocon Consultants, Inc.	Lab Order:	109121
Project:	Hwy 267, I-80, 89, 50 ADL, S9300-06-112	Date Received	12/11/2009 8:50:00 AM
Project No:		Matrix:	Soil
Analyte:	Lead	Analyst:	CL

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
109121-055A	PM63 E11-0	ND	mg/Kg	60486	5.0	1	12/9/2009	12/16/2009
109121-056A	PM63 E11-1	14	mg/Kg	60486	5.0	1	12/9/2009	12/16/2009
109121-057A	PM63 E11-2	ND	mg/Kg	60486	5.0	1	12/9/2009	12/16/2009
109121-058A	PM63 E12-0	8.7	mg/Kg	60486	5.0	1	12/9/2009	12/16/2009
109121-059A	PM63 E12-1	12	mg/Kg	60486	5.0	1	12/9/2009	12/16/2009
109121-060A	PM63 E12-2	11	mg/Kg	60486	5.0	1	12/9/2009	12/16/2009
109121-061A	PM59 E13-0	ND	mg/Kg	60486	5.0	1	12/9/2009	12/16/2009
109121-062A	PM59 E13-1	9.5	mg/Kg	60486	5.0	1	12/9/2009	12/16/2009
109121-063A	PM59 E13-2	6.1	mg/Kg	60487	5.0	1	12/9/2009	12/16/2009
109121-064A	PM59 E14-0	8.7	mg/Kg	60487	5.0	1	12/9/2009	12/16/2009
109121-065A	PM59 E14-1	8.8	mg/Kg	60487	5.0	1	12/9/2009	12/16/2009
109121-066A	PM59 E14-2	44	mg/Kg	60487	5.0	1	12/9/2009	12/16/2009
109121-067A	PM59 E15-0	6.9	mg/Kg	60487	5.0	1	12/9/2009	12/16/2009
109121-068A	PM59 E15-1	12	mg/Kg	60487	5.0	1	12/9/2009	12/16/2009
109121-069A	PM59 E16-0	14	mg/Kg	60487	5.0	1	12/9/2009	12/16/2009
109121-070A	PM59 E16-1	5.5	mg/Kg	60487	5.0	1	12/9/2009	12/16/2009
109121-071A	PM59 E17-0	27	mg/Kg	60487	5.0	1	12/9/2009	12/16/2009
109121-072A	PM59 E17-1	39	mg/Kg	60487	5.0	1	12/9/2009	12/16/2009

Qualifiers:	B Analyte detected in the associated Method Blank	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	ND Not Detected at the Reporting Limit
	S Spike/Surrogate outside of limits due to matrix interference	Results are wet unless otherwise specified
	DO Surrogate Diluted Out	



**LEAD BY ICP
EPA 6010B**

ANALYTICAL RESULTS

CLIENT:	Geocon Consultants, Inc.	Lab Order:	109121
Project:	Hwy 267, I-80, 89, 50 ADL, S9300-06-112	Date Received	12/11/2009 8:50:00 AM
Project No:		Matrix:	Soil
Analyte:	Lead	Analyst:	CL

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
109121-073A	PM59 E17-2	34	mg/Kg	60487	5.0	1	12/9/2009	12/16/2009
109121-074A	PM59 E18-0	33	mg/Kg	60487	5.0	1	12/9/2009	12/16/2009
109121-075A	PM59 E18-1	18	mg/Kg	60487	5.0	1	12/9/2009	12/16/2009
109121-076A	PM59 E18-2	54	mg/Kg	60487	5.0	1	12/9/2009	12/16/2009
109121-077A	PM59 E19-0	14	mg/Kg	60487	5.0	1	12/9/2009	12/16/2009
109121-078A	PM59 E19-1	19	mg/Kg	60487	5.0	1	12/9/2009	12/16/2009
109121-079A	PM59 E19-2	23	mg/Kg	60487	5.0	1	12/9/2009	12/16/2009
109121-080A	PM59 E20-0	15	mg/Kg	60487	5.0	1	12/9/2009	12/16/2009
109121-081A	PM47 E21-0	90	mg/Kg	60487	5.0	1	12/9/2009	12/16/2009
109121-082A	PM47 E21-1	70	mg/Kg	60487	5.0	1	12/9/2009	12/16/2009
109121-083A	PM47 E21-2	ND	mg/Kg	60488	5.0	1	12/9/2009	12/16/2009
109121-084A	PM47 E22-0	ND	mg/Kg	60488	5.0	1	12/9/2009	12/16/2009
109121-085A	PM47 E22-1	5.0	mg/Kg	60488	5.0	1	12/9/2009	12/16/2009
109121-086A	PM47 E22-2	8.0	mg/Kg	60488	5.0	1	12/9/2009	12/16/2009
109121-087A	PM47 E23-0	6.5	mg/Kg	60488	5.0	1	12/9/2009	12/16/2009
109121-088A	PM47 E23-1	9.3	mg/Kg	60488	5.0	1	12/9/2009	12/16/2009
109121-089A	PM47 E23-2	6.3	mg/Kg	60488	5.0	1	12/9/2009	12/16/2009
109121-090A	PM47 E24-0	34	mg/Kg	60488	5.0	1	12/9/2009	12/16/2009

Qualifiers:	B Analyte detected in the associated Method Blank	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	ND Not Detected at the Reporting Limit
	S Spike/Surrogate outside of limits due to matrix interference	Results are wet unless otherwise specified
	DO Surrogate Diluted Out	



**LEAD BY ICP
EPA 6010B**

ANALYTICAL RESULTS

CLIENT:	Geocon Consultants, Inc.	Lab Order:	109121
Project:	Hwy 267, I-80, 89, 50 ADL, S9300-06-112	Date Received	12/11/2009 8:50:00 AM
Project No:		Matrix:	Soil
Analyte:	Lead	Analyst:	CL

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
109121-091A	PM47 E24-1	12	mg/Kg	60488	5.0	1	12/9/2009	12/16/2009
109121-092A	PM47 E24-2	ND	mg/Kg	60488	5.0	1	12/9/2009	12/16/2009
109121-093A	PM47 E25-0	15	mg/Kg	60488	5.0	1	12/9/2009	12/16/2009
109121-094A	PM47 E25-1	40	mg/Kg	60488	5.0	1	12/9/2009	12/16/2009
109121-095A	PM47 E25-2	ND	mg/Kg	60488	5.0	1	12/9/2009	12/16/2009
109121-096A	PM47 E26-0	8.5	mg/Kg	60488	5.0	1	12/9/2009	12/16/2009
109121-097A	PM47 E26-1	17	mg/Kg	60488	5.0	1	12/9/2009	12/16/2009
109121-098A	PM47 E26-2	9.4	mg/Kg	60488	5.0	1	12/9/2009	12/16/2009
109121-099A	PM47 E27-0	9.3	mg/Kg	60488	5.0	1	12/9/2009	12/16/2009
109121-100A	PM47 E27-1	7.4	mg/Kg	60488	5.0	1	12/9/2009	12/16/2009
109121-101A	PM47 E28-0	6.0	mg/Kg	60488	5.0	1	12/9/2009	12/16/2009
109121-102A	PM47 E28-1	ND	mg/Kg	60488	5.0	1	12/9/2009	12/16/2009
109121-103A	PM47 E29-0	12	mg/Kg	60489	5.0	1	12/9/2009	12/16/2009
109121-104A	PM47 E29-1	6.7	mg/Kg	60489	5.0	1	12/9/2009	12/16/2009
109121-105A	PM47 E30-0	15	mg/Kg	60489	5.0	1	12/9/2009	12/16/2009
109121-106A	PM47 E30-1	8.3	mg/Kg	60489	5.0	1	12/9/2009	12/16/2009
109121-107A	PM47 E30-2	6.2	mg/Kg	60489	5.0	1	12/9/2009	12/16/2009
109121-108A	PM58 E31-0	51	mg/Kg	60489	5.0	1	12/9/2009	12/16/2009

Qualifiers:	B Analyte detected in the associated Method Blank	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	ND Not Detected at the Reporting Limit
	S Spike/Surrogate outside of limits due to matrix interference	Results are wet unless otherwise specified
	DO Surrogate Diluted Out	



**LEAD BY ICP
EPA 6010B**

ANALYTICAL RESULTS

CLIENT:	Geocon Consultants, Inc.	Lab Order:	109121
Project:	Hwy 267, I-80, 89, 50 ADL, S9300-06-112	Date Received	12/11/2009 8:50:00 AM
Project No:		Matrix:	Soil
Analyte:	Lead	Analyst:	CL

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
109121-109A	PM58 E31-1	6.3	mg/Kg	60489	5.0	1	12/9/2009	12/16/2009
109121-110A	PM58 E31-2	ND	mg/Kg	60489	5.0	1	12/9/2009	12/16/2009
109121-111A	PM58 E32-0	44	mg/Kg	60489	5.0	1	12/9/2009	12/16/2009
109121-112A	PM58 E32-1	22	mg/Kg	60489	5.0	1	12/9/2009	12/16/2009
109121-113A	PM58 E32-2	45	mg/Kg	60489	5.0	1	12/9/2009	12/16/2009
109121-114A	PM58 E33-0	9.9	mg/Kg	60489	5.0	1	12/9/2009	12/16/2009
109121-115A	PM58 E33-1	15	mg/Kg	60489	5.0	1	12/9/2009	12/16/2009
109121-116A	PM58 E34-0	11	mg/Kg	60489	5.0	1	12/9/2009	12/16/2009
109121-117A	PM58 E34-1	29	mg/Kg	60489	5.0	1	12/9/2009	12/16/2009
109121-118A	PM58 E34-2	22	mg/Kg	60489	5.0	1	12/9/2009	12/16/2009

Qualifiers:	B Analyte detected in the associated Method Blank	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	ND Not Detected at the Reporting Limit
	S Spike/Surrogate outside of limits due to matrix interference	Results are wet unless otherwise specified
	DO Surrogate Diluted Out	



CLIENT: Geocon Consultants, Inc.
Work Order: 109121
Project: Hwy 267, I-80, 89, 50 ADL, S9300-06-112

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_SPB

Sample ID: MB-60483A	SampType: MBLK	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 12/16/2009	RunNo: 116164						
Client ID: PBS	Batch ID: 60483	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 12/16/2009	SeqNo: 1843660						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead	0.120	5.0									
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Sample ID: LCS-60483	SampType: LCS	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 12/16/2009	RunNo: 116164						
Client ID: LCSS	Batch ID: 60483	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 12/16/2009	SeqNo: 1843661						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead	284.388	5.0	250.0	0.1203	114	80	120				
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Sample ID: 109120-014ADUP	SampType: DUP	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 12/16/2009	RunNo: 116164						
Client ID: ZZZZZZ	Batch ID: 60483	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 12/16/2009	SeqNo: 1843672						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead	5.956	5.0						6.824	13.6	20	
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Sample ID: 109120-014AMS	SampType: MS	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 12/16/2009	RunNo: 116164						
Client ID: ZZZZZZ	Batch ID: 60483	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 12/16/2009	SeqNo: 1843673						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

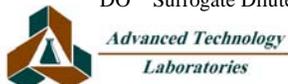
Lead	246.658	5.0	250.0	6.824	95.9	33	120				
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Sample ID: MB-60483B	SampType: MBLK	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 12/16/2009	RunNo: 116164						
Client ID: PBS	Batch ID: 60483	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 12/16/2009	SeqNo: 1843674						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead	ND	5.0									
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Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference



CLIENT: Geocon Consultants, Inc.
Work Order: 109121
Project: Hwy 267, I-80, 89, 50 ADL, S9300-06-112

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_SPB

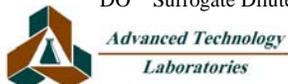
Sample ID: 109121-002ADUP	SampType: DUP	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 12/16/2009	RunNo: 116164						
Client ID: 89P1-1	Batch ID: 60483	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 12/16/2009	SeqNo: 1843685						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	3.406	5.0						4.084	0	20	

Sample ID: 109121-002AMS	SampType: MS	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 12/16/2009	RunNo: 116164						
Client ID: 89P1-1	Batch ID: 60483	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 12/16/2009	SeqNo: 1843686						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	254.950	5.0	250.0	4.084	100	33	120				

Sample ID: 109121-002AMSD	SampType: MSD	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 12/16/2009	RunNo: 116164						
Client ID: 89P1-1	Batch ID: 60483	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 12/16/2009	SeqNo: 1843687						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	225.907	5.0	250.0	4.084	88.7	33	120	254.9	12.1	20	

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |



CLIENT: Geocon Consultants, Inc.
Work Order: 109121
Project: Hwy 267, I-80, 89, 50 ADL, S9300-06-112

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_SPB

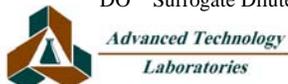
Sample ID: 109121-022ADUP	SampType: DUP	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 12/16/2009	RunNo: 116165						
Client ID: 89P8-0	Batch ID: 60484	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 12/16/2009	SeqNo: 1843713						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	25.106	5.0						19.74	24.0	20	R

Sample ID: 109121-022AMS	SampType: MS	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 12/16/2009	RunNo: 116165						
Client ID: 89P8-0	Batch ID: 60484	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 12/16/2009	SeqNo: 1843714						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	247.987	5.0	250.0	19.74	91.3	33	120				

Sample ID: 109121-022AMSD	SampType: MSD	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 12/16/2009	RunNo: 116165						
Client ID: 89P8-0	Batch ID: 60484	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 12/16/2009	SeqNo: 1843715						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	249.470	5.0	250.0	19.74	91.9	33	120	248.0	0.597	20	

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |



CLIENT: Geocon Consultants, Inc.
Work Order: 109121
Project: Hwy 267, I-80, 89, 50 ADL, S9300-06-112

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_SPB

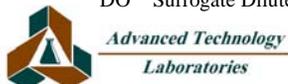
Sample ID: 109121-042ADUP	SampType: DUP	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 12/16/2009	RunNo: 116166						
Client ID: 89P14-2	Batch ID: 60485	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 12/16/2009	SeqNo: 1843741						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	5.760	5.0						5.002	14.1	20	

Sample ID: 109121-042AMS	SampType: MS	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 12/16/2009	RunNo: 116166						
Client ID: 89P14-2	Batch ID: 60485	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 12/16/2009	SeqNo: 1843742						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	195.857	5.0	250.0	5.002	76.3	33	120				

Sample ID: 109121-042AMSD	SampType: MSD	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 12/16/2009	RunNo: 116166						
Client ID: 89P14-2	Batch ID: 60485	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 12/16/2009	SeqNo: 1843743						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	212.303	5.0	250.0	5.002	82.9	33	120	195.9	8.06	20	

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |



CLIENT: Geocon Consultants, Inc.
Work Order: 109121
Project: Hwy 267, I-80, 89, 50 ADL, S9300-06-112

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_SPB

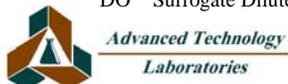
Sample ID: 109121-062ADUP	SampType: DUP	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 12/16/2009	RunNo: 116167						
Client ID: PM59 E13-1	Batch ID: 60486	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 12/16/2009	SeqNo: 1843769						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	5.947	5.0						9.489	45.9	20	R

Sample ID: 109121-062AMS	SampType: MS	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 12/16/2009	RunNo: 116167						
Client ID: PM59 E13-1	Batch ID: 60486	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 12/16/2009	SeqNo: 1843770						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	219.992	5.0	250.0	9.489	84.2	33	120				

Sample ID: 109121-062AMSD	SampType: MSD	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 12/16/2009	RunNo: 116167						
Client ID: PM59 E13-1	Batch ID: 60486	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 12/16/2009	SeqNo: 1843771						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	201.853	5.0	250.0	9.489	76.9	33	120	220.0	8.60	20	

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |



CLIENT: Geocon Consultants, Inc.
Work Order: 109121
Project: Hwy 267, I-80, 89, 50 ADL, S9300-06-112

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_SPB

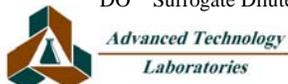
Sample ID: 109121-082ADUP	SampType: DUP	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 12/16/2009	RunNo: 116168						
Client ID: PM47 E21-1	Batch ID: 60487	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 12/16/2009	SeqNo: 1843797						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	81.094	5.0						70.50	14.0	20	

Sample ID: 109121-082AMS	SampType: MS	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 12/16/2009	RunNo: 116168						
Client ID: PM47 E21-1	Batch ID: 60487	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 12/16/2009	SeqNo: 1843798						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	303.264	5.0	250.0	70.50	93.1	33	120				

Sample ID: 109121-082AMSD	SampType: MSD	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 12/16/2009	RunNo: 116168						
Client ID: PM47 E21-1	Batch ID: 60487	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 12/16/2009	SeqNo: 1843799						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	291.949	5.0	250.0	70.50	88.6	33	120	303.3	3.80	20	

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |



CLIENT: Geocon Consultants, Inc.
Work Order: 109121
Project: Hwy 267, I-80, 89, 50 ADL, S9300-06-112

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_SPB

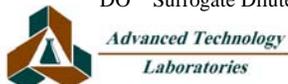
Sample ID: 109121-102ADUP	SampType: DUP	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 12/16/2009	RunNo: 116169						
Client ID: PM47 E28-1	Batch ID: 60488	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 12/16/2009	SeqNo: 1843825						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	10.390	5.0						4.933	71.2	20	R

Sample ID: 109121-102AMS	SampType: MS	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 12/16/2009	RunNo: 116169						
Client ID: PM47 E28-1	Batch ID: 60488	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 12/16/2009	SeqNo: 1843826						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	215.305	5.0	250.0	4.933	84.1	33	120				

Sample ID: 109121-102AMSD	SampType: MSD	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 12/16/2009	RunNo: 116169						
Client ID: PM47 E28-1	Batch ID: 60488	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 12/16/2009	SeqNo: 1843827						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	208.216	5.0	250.0	4.933	81.3	33	120	215.3	3.35	20	

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |



CLIENT: Geocon Consultants, Inc.
Work Order: 109121
Project: Hwy 267, I-80, 89, 50 ADL, S9300-06-112

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_SPB

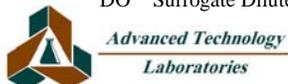
Sample ID: 109121-118ADUP	SampType: DUP	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 12/16/2009	RunNo: 116170						
Client ID: PM58 E34-2	Batch ID: 60489	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 12/16/2009	SeqNo: 1843849						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	21.738	5.0						21.54	0.925	20	

Sample ID: 109121-118AMS	SampType: MS	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 12/16/2009	RunNo: 116170						
Client ID: PM58 E34-2	Batch ID: 60489	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 12/16/2009	SeqNo: 1843850						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	217.914	5.0	250.0	21.54	78.6	33	120				

Sample ID: 109121-118AMSD	SampType: MSD	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 12/16/2009	RunNo: 116170						
Client ID: PM58 E34-2	Batch ID: 60489	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 12/16/2009	SeqNo: 1843851						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	230.569	5.0	250.0	21.54	83.6	33	120	217.9	5.64	20	

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |



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"/>
Logged By: _____ Date: _____		

Client: Geocon Inc. Attention: J. Juhrend	Address: 3160 Gold Valley Dr #800 City: Rancho Cordova State: CA Zip Code: 95742	Tel: 916.852.9118 Fax: 916.852.9132
--	---	--

Project Name: Hwy 267, I-80, 89, 50 ADL	Project #: S9300-06-112	Sampler: Mike O'Brien (Signature)
---	-------------------------	-----------------------------------

Relinquished by: (Signature and Printed Name)	Date: 12/10/09	Time: 1630	Received by: (Signature and Printed Name)	Date: 12/10/09	Time: 1630
---	----------------	------------	---	----------------	------------

Relinquished by: (Signature and Printed Name)	Date: _____	Time: _____	Received by: (Signature and Printed Name)	Date: 12/11/09	Time: 850
---	-------------	-------------	---	----------------	-----------

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: J. Juhrend Print Name Date	Send Report To: Attn: See Above Co: _____ Addr: _____ City: State: Zip:	Bill To: Attn: See Above Co: _____ Addr: _____ City: State: Zip:	Special Instructions/Comments: Homogenize as per CalTrans Contract # 03A1368 Please send EDF and EXCEL to 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.

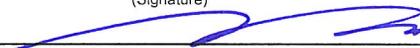
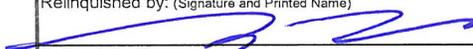
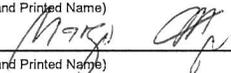
Storage Fees (applies when storage is requested):
 ■ Sample :\$2.00 / sample /mo (after 45 days)
 ■ Records: \$1 /ATL workorder /mo (after 1 year)

Circle or Add Analysis(es) Requested	SPECIFY APPROPRIATE MATRIX										PRESERVATION	Q A / Q C						
	8081A (Pesticides)	8082 (PCB)	8200Z (Volatiles)	8200C (BVA)	6010B (Total Metal)	8015B (GRO) / 8020 (BTX)	8021 (BTX)	TITLE 22 / CAM 17 (6010 / 7000)	Total Lead	pH			SOIL	WATER	GROUND WATER	WASTEWATER	RTNE <input type="checkbox"/>	CT <input checked="" type="checkbox"/>

I T E M	LAB USE ONLY:		Sample Description		
	Batch #:	Sample ID / Location	Date	Time	Container(s)
	109121-11	S9P4-1	12-9-09	1554	X
	12	↓ -2		1355	
	13	89P5-0		1443	
	14	↓ -1		1444	
	15	↓ -2		1445	
	16	89P6-0		1450	
	17	↓ -1		1451	
	18	↓ -2		1452	
	19	89P7-0		1450	
	20	↓ -1		1457	

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

CHAIN OF CUSTODY RECORD

 <p>Advanced Technology Laboratories</p> <p>3275 Walnut Avenue Signal Hill, CA 90755 Tel: (562) 989-4045 • Fax: (562) 989-4040</p>		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"/>						Logged By: _____ Date: _____			
Client: Geocon Inc.				Address: 3160 Gold Valley Dr #800				Tel: 916.852.9118							
Attention: J. Juhrend				City: Rancho Cordova State: CA Zip Code: 95742				Fax: 916.852.9132							
Project Name: Hwy 267, I-80, 89, 50 ADL		Project #: S9300-06-112		Sampler: Mike O'Brien				(Signature) 							
Relinquished by: (Signature and Printed Name) 		Date: 12/10/09		Time: 1630		Received by: (Signature and Printed Name) 650		Date: 12/10/09		Time: 1630					
Relinquished by: (Signature and Printed Name)		Date:		Time:		Received by: (Signature and Printed Name) 		Date: 12/11/09		Time: 850					
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: J. Juhrend Print Name _____ Date _____ Signature _____		Send Report To: Attn: See Above Co: _____ Addr: _____ City: _____ State: _____ Zip: _____		Bill To: Attn: See Above Co: _____ Addr: _____ City: _____ State: _____ Zip: _____				Special Instructions/Comments: Homogenize as per CalTrans Contract # 03A1368 Please send EDF and EXCEL to 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				QA/QC RTNE <input type="checkbox"/> CT <input checked="" type="checkbox"/> SWRCB <input type="checkbox"/> Logcode _____ OTHER _____			
				8081A (Pesticides) 8082 (PCB) 8260B (Volatiles) 8270C (BVA) 8010B (Total Metal) 8015B (CrO) / 8020 (BTEX) 8021 (BTEX) Total Lead pH				SOIL WATER GROUND WATER WASTEWATER				TAT # Type			
												PRESERVATION			
												REMARKS			
LAB USE ONLY: Batch #:		Sample Description													
Lab No.		Sample ID / Location		Date		Time									
109121- 31		89P11-0		12-8-09		1537									
32		↓ -1		↓		1538									
33		↓ -2		↓		1539									
34		89P12-0		↓		1542									
35		↓ -1		↓		1543									
36		↓ -2		↓		1544									
37		89P13-0		↓		1600									
38		↓ 1		↓		1601									
39		↓ 2		↓		1602									
40		89P14-0		↓		1610									
■ TAT starts 8AM the following day if samples received after 3 PM		TAT: <input type="checkbox"/> A = Overnight ≤ 24 hrs		<input type="checkbox"/> B = Emergency Next Workday		<input type="checkbox"/> C = Critical 2 Workdays		<input type="checkbox"/> D = Urgent 3 Workdays		<input type="checkbox"/> E = Routine 7 Workdays		Preservatives: H=HCl N=HNO ₃ S=H ₂ SO ₄ C=4°C Z=Zn(AC) ₂ O=NaOH T=Na ₂ S ₂ O ₃			
Container Types: T=Tube V=VOA L=Liter P=Pint J=Jar B=Tedlar G=Glass P=Plastic M=Metal															

CHAIN OF CUSTODY RECORD

 <p>Advanced Technology Laboratories 3275 Walnut Avenue Signal Hill, CA 90755 Tel: (562) 989-4045 • Fax: (562) 989-4040</p>		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"/>									
Client: Geocon Inc. Attention: J. Juhrend				Address: 3160 Gold Valley Dr #800 City: Rancho Cordova State: CA Zip Code: 95742				Tel: 916.852.9118 Fax: 916.852.9132							
Project Name: Hwy 267, I-80, 89, 50 ADL		Project #: S9300-06-112		Sampler: Mike O'Brien		(Signature)									
Relinquished by: (Signature and Printed Name)		Date: 12/10/09		Time: 1630		Received by: (Signature and Printed Name)		Date: 12/10/09		Time: 1630					
Relinquished by: (Signature and Printed Name)		Date:		Time:		Received by: (Signature and Printed Name)		Date: 12/11/09		Time: 850					
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: J. Juhrend Print Name Date		Send Report To: Attn: See Above Co: _____ Addr: _____ City: State: Zip:		Bill To: Attn: See Above Co: _____ Addr: _____ City: State: Zip:		Special Instructions/Comments: Homogenize as per CalTrans Contract # 03A1368 Please send EDF and EXCEL to 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				QA/QC			
				8081A (Pesticides) 8082 (PCB) 8280B (Volatiles) 8270C (BVA) 6010B (Total Metal) 8015B (GRO) / 8020 (BTEX) 8015B (DRO) 8021 (BTEX) TITLE 22 / CAM 17 (6010 / 7000) Total Lead pH				SOIL WATER GROUND WATER WASTEWATER				TAT # Type		PRESERVATION RTNE <input type="checkbox"/> CT <input checked="" type="checkbox"/> SWRCB <input type="checkbox"/> Logcode _____ OTHER _____	
LAB USE ONLY: Batch #:		Sample Description													
Lab No.		Sample ID / Location		Date		Time						REMARKS			
107/21- 41		89P14-1		12-8-09		1611									
42		↓ -2		↓		1612									
43		89P15-0		↓		1614									
44		↓ -1		↓		1615									
45		↓ -2		↓		1616									
46		89P16-0		↓		1622									
47		↓ -1		↓		1623									
48		↓ -2		↓		1624									
■ TAT starts 8AM the following day if samples received after 3 PM		TAT: <input type="checkbox"/> A = Overnight ≤ 24 hrs		<input type="checkbox"/> B = Emergency Next Workday		<input type="checkbox"/> C = Critical 2 Workdays		<input type="checkbox"/> D = Urgent 3 Workdays		<input type="checkbox"/> E = Routine 7 Workdays		Preservatives: H=HCl N=HNO ₃ S=H ₂ SO ₄ C=4°C Z=Zn(AC) ₂ O=NaOH T=Na ₂ S ₂ O ₃			
Container Types: T=Tube V=VOA L=Liter P=Pinnt J=Jar B=Tedlar G=Glass P=Plastic M=Metal															

CHAIN OF CUSTODY RECORD

 <p>Advanced Technology Laboratories</p> <p>3275 Walnut Avenue Signal Hill, CA 90755 Tel: (562) 989-4045 • Fax: (562) 989-4040</p>		FOR LABORATORY USE ONLY											
		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 Inc. Attention: J. Juhrend			Address: 3160 Gold Valley Dr #800 City: Rancho Cordova State: CA Zip Code: 95742			Tel: 916.852.9118 Fax: 916.852.9132							
Project Name: Hwy 267, I-80, 89, 50 ADL		Project #: S9300-06-112		Sampler: Mike O'Brien		(Signature)							
Relinquished by: <i>[Signature]</i>		Date: 12/10/09		Time: 1630		Received by: <i>[Signature]</i>							
Relinquished by: <i>[Signature]</i>		Date: _____		Time: _____		Received by: <i>[Signature]</i>							
Relinquished by: _____		Date: _____		Time: _____		Received by: <i>[Signature]</i>							
I hereby authorize ATL to perform the work indicated below: Project Mgr /Submitter: J. Juhrend Print Name Date Signature _____		Send Report To: Attn: See Above Co: _____ Addr: _____ City: _____ State: _____ Zip: _____		Bill To: Attn: See Above Co: _____ Addr: _____ City: _____ State: _____ Zip: _____		Special Instructions/Comments: Homogenize as per CalTrans Contract # 03A1368 Please send EDF and EXCEL to 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					
				8081A (Pesticides) / 8082 (PCB) / 8280B (Volatiles) / 8270C (BNA) / 8010B (Total Metals) / 8015B (GRO) / 8020 (BTEX) / 8021 (BTEX) / TITLE 22 / CAM 17 (8010 / 7000) / Total Lead / pH / SOIL / WATER / GROUND WATER / WASTEWATER				Container(s)		PRESERVATION QAI/QC RTNE <input type="checkbox"/> CT <input checked="" type="checkbox"/> SWRCB <input type="checkbox"/> Logcode _____ OTHER _____			
								TAT # Type		REMARKS			
LAB USE ONLY: Batch #: _____ Lab No. _____				Sample Description Sample ID / Location _____ Date _____ Time _____									
109121-49 PM63E9-0 50 -1 51 -2 52 PM63E10-0 53 -1 54 -2 55 PM63E11-0				12/9/09 0943 0944 0945 0956 0957 0958 1010				X X E X X X X		1 Ziplock			
■ TAT starts 8AM the following day if samples received after 3 PM				TAT: <input type="checkbox"/> A = Overnight ≤ 24 hrs <input type="checkbox"/> B = Emergency Next Workday <input type="checkbox"/> C = Critical 2 Workdays <input type="checkbox"/> D = Urgent 3 Workdays <input type="checkbox"/> E = Routine 7 Workdays		Preservatives: H=HCl N=HNO ₃ S=H ₂ SO ₄ C=4°C Z=Zn(AC) ₂ O=NaOH T=Na ₂ S ₂ O ₃							
Container Types: T=Tube V=VOA L=Liter P=Pinnt 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"/>
Logged By: _____ Date: _____		

Client: Geocon Inc. Attention: J. Juhrend	Address: 3160 Gold Valley Dr #800 City: Rancho Cordova State: CA Zip Code: 95742	Tel: 916.852.9118 Fax: 916.852.9132
--	---	--

Project Name: Hwy 267, I-80, 89, 50 ADL	Project #: S9300-06-112	Sampler: Mike O'Brien (Signature)
---	-------------------------	-----------------------------------

Relinquished by: (Signature and Printed Name) <i>[Signature]</i>	Date: 12/10/09	Time: 1630	Received by: (Signature and Printed Name) <i>[Signature]</i>	Date: 12/10/09	Time: 1630
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: J. Juhrend Print Name _____ Date _____ Signature _____	Send Report To: Attn: See Above Co: _____ Addr: _____ City: _____ State: _____ Zip: _____	Bill To: Attn: See Above Co: _____ Addr: _____ City: _____ State: _____ Zip: _____	Special Instructions/Comments: Homogenize as per CalTrans Contract # 03A1368 Please send EDF and EXCEL to 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															PRESERVATION	QA/QC
	8081A (Pesticides)	8082 (PCB)	8280B (Volatiles)	8270C (BNA)	6010B (Total Metal)	8015B (GRO) / 8020 (BTEX)	8015S (DRO)	8021 (BTEX)	TITLE 22 / CAM 17 (6010 / 7000)	Total Lead	pH	SOIL	WATER	GROUND WATER	WASTEWATER		Container(s)
																	Logcode _____
																	OTHER _____
																	REMARKS

ITEM	LAB USE ONLY:		Sample Description				
	Batch #:	Sample ID / Location	Date	Time	TAT	#	Type
	109121-56	PM63 E11-1	12-9-09	1011			
	57	PM63 E11-2		1012			
	58	PM63 E12-0		1018			
	59	PM63 E12-1		1019			
	60	PM63 E12-2		1020			
	61	PM59 E13-0		1050			
	62	PM59 E13-1		1051			
	63	PM59 E13-2		1052			
	64	PM59 E14-0		1105			
	65	PM59 E14-1		1106			

■ TAT starts 8AM the following day if samples received after 3 PM	TAT: <input type="checkbox"/> A = Overnight ≤ 24 hrs <input type="checkbox"/> B = Emergency Next Workday <input type="checkbox"/> C = Critical 2 Workdays <input type="checkbox"/> D = Urgent 3 Workdays <input type="checkbox"/> E = Routine 7 Workdays	Preservatives: H=HCl N=HNO ₃ S=H ₂ SO ₄ C=4°C Z=Zn(AC) ₂ O=NaOH T=Na ₂ S ₂ O ₃
Container Types: T=Tube V=VOA L=Liter P=Pinnt 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. #: _____
Logged By: _____ Date: _____

Method of Transport
Client
ATL
CA OverN
FedEx
Other: _____

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

Client: Geocon Inc. Address: 3160 Gold Valley Dr #800 Tel: 916.852.9118
Attention: J. Juhrend City: Rancho Cordova State: CA Zip Code: 95742 Fax: 916.852.9132

Project Name: Hwy 267, I-80, 89, 50 ADL Project #: S9300-06-112 Sampler: Mike O'Brien (Signature)

Relinquished by: (Signature and Printed Name) Date: 12/10/09 Time: 1630 Received by: (Signature and Printed Name) Date: 12/10/09 Time: 1630

Relinquished by: (Signature and Printed Name) Date: _____ Time: _____ Received by: (Signature and Printed Name) Date: 12/11/09 Time: 830

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:
J. Juhrend
Print Name Date

Send Report To:
Attn: See Above
Co: _____
Addr: _____
City: _____ State: _____ Zip: _____

Bill To:
Attn: See Above
Co: _____
Addr: _____
City: _____ State: _____ Zip: _____

Special Instructions/Comments:
Homogenize as per CalTrans Contract # 03A1368
Please send EDF and EXCEL to
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												PRESERVATION						
	8081A (Pesticides)	8082 (PCB)	8200B (Volatile)	8270C (BNA)	8010B (Total Metals)	8015B (GRO) / 8020 (BTEX)	8015B (DRO)	TITLE 22 / CAM 17 (6010 / 7000)	Total Lead	PH	SOIL	WATER		GROUND WATER	WASTEWATER	TAT	#	Type	
											X						E	1	Ziplock

I T E M	LAB USE ONLY:		Sample Description			
	Batch #:	Sample ID / Location	Date	Time		
	109121- 66	PM 59 E14-2	12-9-09	1107		
	67	PM 59 E15-0		1115		
	68	PM 59 -1		1116		
	2 CM REFUSAL					
	69	PM 59 E16-0		1124		
	70	↓ -1		1125		
	2 CM REFUSAL					
	71	PM 59 E17-0		1145		
	72	↓ -1		1146		
	73	↓ -2		1147		

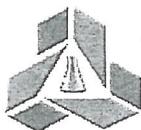
■ TAT starts 8AM the following day if samples received after 3 PM

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=HNO₃ S=H₂SO₄ C=4°C
Z=Zn(AC)₂ O=NaOH T=Na₂S₂O₃

Container Types: T=Tube V=VOA L=Liter P=Pin 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. #: _____
Logged By: _____ Date: _____

Method of Transport

Client
ATL
CA OverN
FedEx
Other: _____

Sample Condition Upon Receipt

1. CHILLED Y N 4. SEALED Y N
2. HEADSPACE (VOA) Y N 5. # OF SPLS MATCH COC Y N
3. CONTAINER INTACT Y N 6. PRESERVED Y N

Client: Geocon Inc. Address: 3160 Gold Valley Dr #800 Tel: 916.852.9118
Attention: J. Juhrend City: Rancho Cordova State: CA Zip Code: 95742 Fax: 916.852.9132

Project Name: Hwy 267, I-80, 89, 50 ADL Project #: S9300-06-112 Sampler: Mike O'Brien (Signature)

Relinquished by: (Signature and Printed Name) Date: 12/10/09 Time: 1630 Received by: (Signature and Printed Name) Date: 12/10/09 Time: 1630

Relinquished by: (Signature and Printed Name) Date: _____ Time: _____ Received by: (Signature and Printed Name) Date: 12/10/09 Time: 850

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: J. Juhrend
Print Name _____ Date _____
Signature _____

Send Report To:
Attn: See Above
Co: _____
Addr: _____
City: _____ State: _____ Zip: _____

Bill To:
Attn: See Above
Co: _____
Addr: _____
City: _____ State: _____ Zip: _____

Special Instructions/Comments:
Homogenize as per CalTrans Contract # 03A1368
Please send EDF and EXCEL to
cook@geoconinc.com

Sample/Records - Archival & Disposal
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■ Records: \$1 /ATL workorder /mo (after 1 year)

Circle or Add Analysis(es) Requested	SPECIFY APPROPRIATE MATRIX												PRESERVATION						
	8081A (Pesticides)	8082 (PCB)	8280B (Volatiles)	8270C (BVA)	8010B (Total Metal)	8015B (GRO) / 8020 (BTEX)	8021 (BTEX)	TITLE 22 / CAM 17 (8010 / 7000)	Total Lead	pH	SOIL	WATER		GROUND WATER	WASTEWATER	RTNE <input type="checkbox"/>	CT <input checked="" type="checkbox"/>	SWRCB Logcode <input type="checkbox"/>	OTHER _____

I T E M	LAB USE ONLY:		Sample Description			
	Batch #:	Sample ID / Location	Date	Time	Container(s)	REMARKS
	109121-92	PM 47 E24-2	12-9-09	1327	1 Ziplock	
	93	PM 47 E25-0		1330		
	94	↓ -1		1331		
	95	↓ -2		1332		
	96	PM 47 E26-0		1339		
	97	↓ -1		1340		
	98	↓ -2		1341		
	99	PM 47 E27-0		1345		
	100	↓ -1		1346		
		REFUSAL		1347		

■ 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=HNO₃ S=H₂SO₄ C=4°C
 Z=Zn(AC)₂ O=NaOH T=Na₂S₂O₃
 Container Types: T=Tube V=VOA L=Liter P=Pint J=Jar B=Tedlar G=Glass P=Plastic M=Metal

CHAIN OF CUSTODY RECORD

<p style="margin: 0;">Advanced Technology Laboratories</p> <p style="margin: 0;">3275 Walnut Avenue Signal Hill, CA 90755 Tel: (562) 989-4045 • Fax: (562) 989-4040</p>		FOR LABORATORY USE ONLY													
		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 Inc. Attention: J. Juhrend				Address: 3160 Gold Valley Dr #800 City: Rancho Cordova State: CA Zip Code: 95742				Tel: 916.852.9118 Fax: 916.852.9132							
Project Name: Hwy 267, I-80, 89, 50 ADL		Project #: S9300-06-112		Sampler: Mike O'Brien		(Signature)									
Relinquished by: (Signature and Printed Name)		Date: 12/10/09		Time: 1630		Received by: (Signature and Printed Name)		Date: 12/10/09		Time: 1630					
Relinquished by: (Signature and Printed Name)		Date:		Time:		Received by: (Signature and Printed Name)		Date: 12/11/09		Time: 850					
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: J. Juhrend Print Name _____ Date _____ Signature _____		Send Report To: Attn: See Above Co: _____ Addr: _____ City: _____ State: _____ Zip: _____		Bill To: Attn: See Above Co: _____ Addr: _____ City: _____ State: _____ Zip: _____		Special Instructions/Comments: Homogenize as per CalTrans Contract # 03A1368 Please send EDF and EXCEL to 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				QA/QC RTNE <input type="checkbox"/> CT <input type="checkbox"/> SWRCB <input type="checkbox"/> Logcode _____ OTHER _____ REMARKS _____			
ITEM	LAB USE ONLY: Batch #:	Sample Description			8081A (Pesticides) 8082 (PCB) 8280B (Volatiles) 8270C (BNA) 8010B (Total Metal) 8015B (GRO) / 8020 (BTEX) 8015B (DRO) TITLE 22 / CAM 17 (8010 / 7000) Total Lead pH				SOIL WATER GROUND WATER WASTEWATER				Container(s)		PRESERVATION
	Lab No.	Sample ID / Location	Date	Time									TAT	#	
	109121-111	PM 58 E32-0	12-9-09	1450	X			X	E	1	Ziplock				
	112	↓ -1		1451											
	113	↓ -2		1452											
	114	PM 58 E33-0		1455											
	115	↓ -1		1456											
	116	PM 58 E34-0		1459											
	117	↓ -1		1500											
	118	↓ -2		1501											
		Jm													
■ TAT starts 8AM the following day if samples received after 3 PM		TAT: <input type="checkbox"/> A = Overnight ≤ 24 hrs		<input type="checkbox"/> B = Emergency Next Workday		<input type="checkbox"/> C = Critical 2 Workdays		<input type="checkbox"/> D = Urgent 3 Workdays		<input type="checkbox"/> E = Routine 7 Workdays		Preservatives: H=HCl N=HNO ₃ S=H ₂ SO ₄ C=4°C Z=Zn(AC) ₂ O=NaOH T=Na ₂ S ₂ O ₃			
Container Types: T=Tube V=VOA L=Liter P=Pint J=Jar B=Tediar G=Glass P=Plastic M=Metal															

December 14, 2009



John Juhrend
Geocon Consultants, Inc.
3160 Gold Valley Drive, Suite 800
Rancho Cordova, CA 95742
TEL: (916) 852-9118
FAX: (916) 852-9132

ELAP No.: 1838
NELAP No.: 02107CA
NEVADA.: CA-401
CSDLAC No.: 10196

Workorder No.: 108944

RE: Hwy 267, I-80, 89, 50 ADL, S9300-06-112

Attention: John Juhrend

Enclosed are the results for sample(s) received on December 05, 2009 by Advanced Technology Laboratories . The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

Thank you for the opportunity to service the needs of your company.

Please feel free to call me at (562)989-4045 if I can be of further assistance to your company.

Sincerely,


for Eddie F. Rodriguez
Laboratory Director

The cover letter and the case narrative are an integral part of this analytical report and cannot be reproduced in part or in its entirety without written permission from the client and Advanced Technology Laboratories.



CLIENT: Geocon Consultants, Inc.
Project: Hwy 267, I-80, 89, 50 ADL, S9300-06-112
Lab Order: 108944

CASE NARRATIVE

Analytical Comments for Method 6010

RPD for Duplicate (DUP) and/or Matrix Spike (MS)/Matrix Spike Duplicate (MSD) is outside criteria for samples 108944-012ADUP, 108944-032AMSD, 108944-072ADUP, 108944-076ADUP and 108944-076AMSD; however, the Laboratory Control Sample (LCS) validated the analytical batch.



**LEAD BY ICP
EPA 6010B**

ANALYTICAL RESULTS

CLIENT:	Geocon Consultants, Inc.	Lab Order:	108944
Project:	Hwy 267, I-80, 89, 50 ADL, S9300-06-112	Date Received	12/5/2009 9:20:00 AM
Project No:		Matrix:	Soil
Analyte:	Lead	Analyst:	CL

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
108944-001A	267P1-0	12	mg/Kg	60279	5.0	1	12/2/2009	12/8/2009
108944-002A	267P1-1	15	mg/Kg	60279	5.0	1	12/2/2009	12/8/2009
108944-003A	267P1-2	12	mg/Kg	60279	5.0	1	12/2/2009	12/8/2009
108944-004A	267P2-0	ND	mg/Kg	60279	5.0	1	12/2/2009	12/8/2009
108944-005A	267P2-1	ND	mg/Kg	60279	5.0	1	12/2/2009	12/8/2009
108944-006A	267P2-2	8.2	mg/Kg	60279	5.0	1	12/2/2009	12/8/2009
108944-007A	267P3-0	7.8	mg/Kg	60279	5.0	1	12/2/2009	12/8/2009
108944-008A	267P3-1	14	mg/Kg	60279	5.0	1	12/2/2009	12/8/2009
108944-009A	267P3-2	19	mg/Kg	60279	5.0	1	12/2/2009	12/8/2009
108944-010A	267P4-0	9.0	mg/Kg	60279	5.0	1	12/2/2009	12/8/2009
108944-011A	267P4-1	22	mg/Kg	60279	5.0	1	12/2/2009	12/8/2009
108944-012A	267P4-2	26	mg/Kg	60279	5.0	1	12/2/2009	12/8/2009
108944-013A	267P5-0	7.6	mg/Kg	60377	5.0	1	12/2/2009	12/10/2009
108944-014A	267P5-1	27	mg/Kg	60377	5.0	1	12/2/2009	12/10/2009
108944-015A	267P5-2	6.6	mg/Kg	60377	5.0	1	12/2/2009	12/10/2009
108944-016A	267P6-0	17	mg/Kg	60377	5.0	1	12/2/2009	12/10/2009
108944-017A	267P6-1	28	mg/Kg	60377	5.0	1	12/2/2009	12/10/2009
108944-018A	267P6-2	78	mg/Kg	60377	5.0	1	12/2/2009	12/10/2009

Qualifiers:	B Analyte detected in the associated Method Blank	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	ND Not Detected at the Reporting Limit
	S Spike/Surrogate outside of limits due to matrix interference	Results are wet unless otherwise specified
	DO Surrogate Diluted Out	



**LEAD BY ICP
EPA 6010B**

ANALYTICAL RESULTS

CLIENT:	Geocon Consultants, Inc.	Lab Order:	108944
Project:	Hwy 267, I-80, 89, 50 ADL, S9300-06-112	Date Received	12/5/2009 9:20:00 AM
Project No:		Matrix:	Soil
Analyte:	Lead	Analyst:	CL

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
108944-019A	267P7-0	ND	mg/Kg	60377	5.0	1	12/2/2009	12/10/2009
108944-020A	267P7-1	48	mg/Kg	60377	5.0	1	12/2/2009	12/10/2009
108944-021A	267P7-2	5.1	mg/Kg	60377	5.0	1	12/2/2009	12/10/2009
108944-022A	267P8-0	5.5	mg/Kg	60377	5.0	1	12/2/2009	12/10/2009
108944-023A	267P8-1	50	mg/Kg	60377	5.0	1	12/2/2009	12/10/2009
108944-024A	267P8-2	37	mg/Kg	60377	5.0	1	12/2/2009	12/10/2009
108944-025A	267P9-0	6.9	mg/Kg	60377	5.0	1	12/2/2009	12/10/2009
108944-026A	267P9-1	11	mg/Kg	60377	5.0	1	12/2/2009	12/10/2009
108944-027A	267P9-2	7.0	mg/Kg	60377	5.0	1	12/2/2009	12/10/2009
108944-028A	267P10-0	11	mg/Kg	60377	5.0	1	12/2/2009	12/10/2009
108944-029A	267P10-1	12	mg/Kg	60377	5.0	1	12/2/2009	12/10/2009
108944-030A	267P10-2	7.5	mg/Kg	60377	5.0	1	12/2/2009	12/10/2009
108944-031A	267P11-0	12	mg/Kg	60377	5.0	1	12/2/2009	12/10/2009
108944-032A	267P11-1	15	mg/Kg	60377	5.0	1	12/2/2009	12/10/2009
108944-033A	267P12-0	22	mg/Kg	60281	5.0	1	12/2/2009	12/9/2009
108944-034A	267P12-1	6.1	mg/Kg	60281	5.0	1	12/2/2009	12/9/2009
108944-035A	267P12-2	ND	mg/Kg	60281	5.0	1	12/2/2009	12/9/2009
108944-036A	80P1-0	6.1	mg/Kg	60281	5.0	1	12/2/2009	12/9/2009

Qualifiers:	B Analyte detected in the associated Method Blank	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	ND Not Detected at the Reporting Limit
	S Spike/Surrogate outside of limits due to matrix interference	Results are wet unless otherwise specified
	DO Surrogate Diluted Out	



**LEAD BY ICP
EPA 6010B**

ANALYTICAL RESULTS

CLIENT:	Geocon Consultants, Inc.	Lab Order:	108944
Project:	Hwy 267, I-80, 89, 50 ADL, S9300-06-112	Date Received	12/5/2009 9:20:00 AM
Project No:		Matrix:	Soil
Analyte:	Lead	Analyst:	CL

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
108944-037A	80P1-1	32	mg/Kg	60281	5.0	1	12/2/2009	12/9/2009
108944-038A	80P2-0	16	mg/Kg	60281	5.0	1	12/2/2009	12/9/2009
108944-039A	80P2-1	10	mg/Kg	60281	5.0	1	12/2/2009	12/9/2009
108944-040A	80P3-0	22	mg/Kg	60281	5.0	1	12/2/2009	12/9/2009
108944-041A	80P3-1	21	mg/Kg	60281	5.0	1	12/2/2009	12/9/2009
108944-042A	80P3-2	15	mg/Kg	60281	5.0	1	12/2/2009	12/9/2009
108944-043A	80P4-0	21	mg/Kg	60281	5.0	1	12/2/2009	12/9/2009
108944-044A	80P4-1	12	mg/Kg	60281	5.0	1	12/2/2009	12/9/2009
108944-045A	80P4-2	9.1	mg/Kg	60281	5.0	1	12/2/2009	12/9/2009
108944-046A	80P5-0	ND	mg/Kg	60281	5.0	1	12/2/2009	12/9/2009
108944-047A	80P5-1	ND	mg/Kg	60281	5.0	1	12/2/2009	12/9/2009
108944-048A	80P5-2	ND	mg/Kg	60281	5.0	1	12/2/2009	12/9/2009
108944-049A	80P6-0	ND	mg/Kg	60281	5.0	1	12/2/2009	12/9/2009
108944-050A	80P6-1	ND	mg/Kg	60281	5.0	1	12/2/2009	12/9/2009
108944-050A	80P6-1	ND	mg/Kg	60281	5.0	1	12/2/2009	12/9/2009
108944-051A	80P7-0	ND	mg/Kg	60281	5.0	1	12/2/2009	12/9/2009
108944-052A	80P7-1	ND	mg/Kg	60281	5.0	1	12/2/2009	12/9/2009
108944-053A	80P8-0	17	mg/Kg	60282	5.0	1	12/2/2009	12/9/2009

Qualifiers:	B Analyte detected in the associated Method Blank	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	ND Not Detected at the Reporting Limit
	S Spike/Surrogate outside of limits due to matrix interference	Results are wet unless otherwise specified
	DO Surrogate Diluted Out	



**LEAD BY ICP
EPA 6010B**

ANALYTICAL RESULTS

CLIENT:	Geocon Consultants, Inc.	Lab Order:	108944
Project:	Hwy 267, I-80, 89, 50 ADL, S9300-06-112	Date Received	12/5/2009 9:20:00 AM
Project No:		Matrix:	Soil
Analyte:	Lead	Analyst:	CL

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
108944-054A	PM53E1-0	8.7	mg/Kg	60282	5.0	1	12/3/2009	12/9/2009
108944-055A	PM53E1-1	9.1	mg/Kg	60282	5.0	1	12/3/2009	12/9/2009
108944-056A	PM53E1-2	56	mg/Kg	60282	5.0	1	12/3/2009	12/9/2009
108944-057A	PM53E2-0	6.4	mg/Kg	60282	5.0	1	12/3/2009	12/9/2009
108944-058A	PM53E2-1	12	mg/Kg	60282	5.0	1	12/3/2009	12/9/2009
108944-059A	PM53E2-2	53	mg/Kg	60282	5.0	1	12/3/2009	12/9/2009
108944-060A	PM53E3-0	8.0	mg/Kg	60282	5.0	1	12/3/2009	12/9/2009
108944-061A	PM53E3-1	48	mg/Kg	60282	5.0	1	12/3/2009	12/9/2009
108944-062A	PM53E3-2	94	mg/Kg	60282	5.0	1	12/3/2009	12/9/2009
108944-063A	PM53E4-0	25	mg/Kg	60282	5.0	1	12/3/2009	12/9/2009
108944-064A	PM53E4-1	16	mg/Kg	60282	5.0	1	12/3/2009	12/9/2009
108944-065A	PM53E4-2	46	mg/Kg	60282	5.0	1	12/3/2009	12/9/2009
108944-066A	PM50E5-0	11	mg/Kg	60282	5.0	1	12/3/2009	12/9/2009
108944-067A	PM50E5-1	43	mg/Kg	60282	5.0	1	12/3/2009	12/9/2009
108944-068A	PM50E6-0	12	mg/Kg	60282	5.0	1	12/3/2009	12/9/2009
108944-069A	PM50E6-1	20	mg/Kg	60282	5.0	1	12/3/2009	12/9/2009
108944-070A	PM50E6-2	13	mg/Kg	60282	5.0	1	12/3/2009	12/9/2009
108944-071A	PM50E7-0	12	mg/Kg	60282	5.0	1	12/3/2009	12/9/2009

Qualifiers:	B Analyte detected in the associated Method Blank	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	ND Not Detected at the Reporting Limit
	S Spike/Surrogate outside of limits due to matrix interference	Results are wet unless otherwise specified
	DO Surrogate Diluted Out	



**LEAD BY ICP
EPA 6010B**

ANALYTICAL RESULTS

CLIENT:	Geocon Consultants, Inc.	Lab Order:	108944
Project:	Hwy 267, I-80, 89, 50 ADL, S9300-06-112	Date Received	12/5/2009 9:20:00 AM
Project No:		Matrix:	Soil
Analyte:	Lead	Analyst:	CL

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
108944-072A	PM50E7-1	15	mg/Kg	60282	5.0	1	12/3/2009	12/9/2009
108944-073A	PM50E7-2	ND	mg/Kg	60283	5.0	1	12/3/2009	12/9/2009
108944-074A	PM50E8-0	ND	mg/Kg	60283	5.0	1	12/3/2009	12/9/2009
108944-075A	PM50E8-1	12	mg/Kg	60283	5.0	1	12/3/2009	12/9/2009
108944-076A	PM50E8-2	27	mg/Kg	60283	5.0	1	12/3/2009	12/9/2009

Qualifiers:	B Analyte detected in the associated Method Blank	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	ND Not Detected at the Reporting Limit
	S Spike/Surrogate outside of limits due to matrix interference	Results are wet unless otherwise specified
	DO Surrogate Diluted Out	



CLIENT: Geocon Consultants, Inc.
Work Order: 108944
Project: Hwy 267, I-80, 89, 50 ADL, S9300-06-112

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_SPB

Sample ID: MB-60279A	SampType: MBLK	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 12/8/2009	RunNo: 115782						
Client ID: PBS	Batch ID: 60279	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 12/8/2009	SeqNo: 1836774						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead	ND	5.0									
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Sample ID: LCS-60279	SampType: LCS	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 12/8/2009	RunNo: 115782						
Client ID: LCSS	Batch ID: 60279	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 12/8/2009	SeqNo: 1836775						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead	272.097	5.0	250.0	0	109	80	120				
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Sample ID: 108944-002A-DUP	SampType: DUP	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 12/8/2009	RunNo: 115782						
Client ID: 267P1-1	Batch ID: 60279	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 12/8/2009	SeqNo: 1836786						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead	14.509	5.0						14.59	0.520	20	
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Sample ID: 108944-002A-MS	SampType: MS	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 12/8/2009	RunNo: 115782						
Client ID: 267P1-1	Batch ID: 60279	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 12/8/2009	SeqNo: 1836787						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

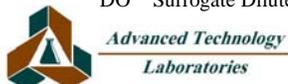
Lead	239.440	5.0	250.0	14.59	89.9	33	120				
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Sample ID: MB-60279B	SampType: MBLK	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 12/8/2009	RunNo: 115782						
Client ID: PBS	Batch ID: 60279	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 12/8/2009	SeqNo: 1836788						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead	ND	5.0									
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Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference



CLIENT: Geocon Consultants, Inc.
Work Order: 108944
Project: Hwy 267, I-80, 89, 50 ADL, S9300-06-112

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_SPB

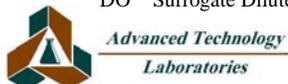
Sample ID: 108944-012A-DUP	SampType: DUP	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 12/8/2009	RunNo: 115782						
Client ID: 267P4-2	Batch ID: 60279	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 12/8/2009	SeqNo: 1836799						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	14.439	5.0						26.45	58.7	20	R

Sample ID: 108944-012A-MS	SampType: MS	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 12/8/2009	RunNo: 115782						
Client ID: 267P4-2	Batch ID: 60279	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 12/8/2009	SeqNo: 1836800						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	258.086	5.0	250.0	26.45	92.7	33	120				

Sample ID: 108944-012A-MSD	SampType: MSD	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 12/8/2009	RunNo: 115782						
Client ID: 267P4-2	Batch ID: 60279	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 12/8/2009	SeqNo: 1836801						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	254.615	5.0	250.0	26.45	91.3	33	120	258.1	1.35	20	

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |



CLIENT: Geocon Consultants, Inc.
Work Order: 108944
Project: Hwy 267, I-80, 89, 50 ADL, S9300-06-112

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_SPB

Sample ID: LCS-60281	SampType: LCS	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 12/8/2009	RunNo: 115795						
Client ID: LCSS	Batch ID: 60281	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 12/9/2009	SeqNo: 1837028						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead	290.481	5.0	250.0	0	116	80	120				
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Sample ID: MB-60281A	SampType: MBLK	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 12/8/2009	RunNo: 115795						
Client ID: PBS	Batch ID: 60281	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 12/9/2009	SeqNo: 1837029						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead	ND	5.0									
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Sample ID: 108944-042ADUP	SampType: DUP	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 12/8/2009	RunNo: 115795						
Client ID: 80P3-2	Batch ID: 60281	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 12/9/2009	SeqNo: 1837040						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead	14.729	5.0						15.26	3.52	20	
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Sample ID: 108944-042AMS	SampType: MS	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 12/8/2009	RunNo: 115795						
Client ID: 80P3-2	Batch ID: 60281	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 12/9/2009	SeqNo: 1837041						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

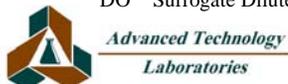
Lead	263.036	5.0	250.0	15.26	99.1	33	120				
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Sample ID: MB-60281B	SampType: MBLK	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 12/8/2009	RunNo: 115795						
Client ID: PBS	Batch ID: 60281	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 12/9/2009	SeqNo: 1837042						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead	ND	5.0									
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Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |



CLIENT: Geocon Consultants, Inc.
Work Order: 108944
Project: Hwy 267, I-80, 89, 50 ADL, S9300-06-112

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_SPB

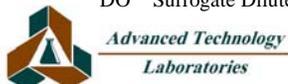
Sample ID: 108944-052ADUP	SampType: DUP	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 12/8/2009	RunNo: 115795						
Client ID: 80P7-1	Batch ID: 60281	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 12/9/2009	SeqNo: 1837054						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	4.857	5.0						3.190	0	20	

Sample ID: 108944-052AMS	SampType: MS	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 12/8/2009	RunNo: 115795						
Client ID: 80P7-1	Batch ID: 60281	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 12/9/2009	SeqNo: 1837055						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	241.953	5.0	250.0	3.190	95.5	33	120				

Sample ID: 108944-052AMSD	SampType: MSD	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 12/8/2009	RunNo: 115795						
Client ID: 80P7-1	Batch ID: 60281	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 12/9/2009	SeqNo: 1837056						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	256.567	5.0	250.0	3.190	101	33	120	242.0	5.86	20	

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |



CLIENT: Geocon Consultants, Inc.
Work Order: 108944
Project: Hwy 267, I-80, 89, 50 ADL, S9300-06-112

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_SPB

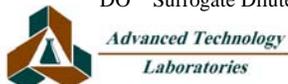
Sample ID: 108944-072ADUP	SampType: DUP	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 12/8/2009	RunNo: 115796						
Client ID: PM50E7-1	Batch ID: 60282	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 12/9/2009	SeqNo: 1837083						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	17.882	5.0						14.57	20.4	20	R

Sample ID: 108944-072AMS	SampType: MS	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 12/8/2009	RunNo: 115796						
Client ID: PM50E7-1	Batch ID: 60282	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 12/9/2009	SeqNo: 1837084						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	232.788	5.0	250.0	14.57	87.3	33	120				

Sample ID: 108944-072AMSD	SampType: MSD	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 12/8/2009	RunNo: 115796						
Client ID: PM50E7-1	Batch ID: 60282	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 12/9/2009	SeqNo: 1837085						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	250.514	5.0	250.0	14.57	94.4	33	120	232.8	7.34	20	

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |



CLIENT: Geocon Consultants, Inc.
Work Order: 108944
Project: Hwy 267, I-80, 89, 50 ADL, S9300-06-112

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_SPB

Sample ID: MB-60283A	SampType: MBLK	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 12/8/2009	RunNo: 115797						
Client ID: PBS	Batch ID: 60283	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 12/9/2009	SeqNo: 1837087						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead	ND	5.0									
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Sample ID: LCS-60283	SampType: LCS	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 12/8/2009	RunNo: 115797						
Client ID: LCSS	Batch ID: 60283	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 12/9/2009	SeqNo: 1837088						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead	282.310	5.0	250.0	0	113	80	120				
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Sample ID: 108944-076ADUP	SampType: DUP	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 12/8/2009	RunNo: 115797						
Client ID: PM50E8-2	Batch ID: 60283	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 12/9/2009	SeqNo: 1837093						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead	54.255	5.0						27.26	66.2	20	R
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Sample ID: 108944-076AMS	SampType: MS	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 12/8/2009	RunNo: 115797						
Client ID: PM50E8-2	Batch ID: 60283	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 12/9/2009	SeqNo: 1837094						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

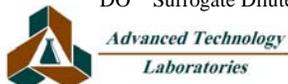
Lead	197.696	5.0	250.0	27.26	68.2	33	120				
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Sample ID: 108944-076AMSD	SampType: MSD	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 12/8/2009	RunNo: 115797						
Client ID: PM50E8-2	Batch ID: 60283	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 12/9/2009	SeqNo: 1837095						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead	260.225	5.0	250.0	27.26	93.2	33	120	197.7	27.3	20	R
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Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |



CLIENT: Geocon Consultants, Inc.
Work Order: 108944
Project: Hwy 267, I-80, 89, 50 ADL, S9300-06-112

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_SPB

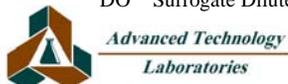
Sample ID: 108944-032ADUP	SampType: DUP	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 12/10/2009	RunNo: 115856						
Client ID: 267P11-1	Batch ID: 60377	TestNo: EPA 6010B EPA 3050M		Analysis Date: 12/10/2009	SeqNo: 1838197						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	14.752	5.0						15.05	1.97	20	

Sample ID: 108944-032AMS	SampType: MS	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 12/10/2009	RunNo: 115856						
Client ID: 267P11-1	Batch ID: 60377	TestNo: EPA 6010B EPA 3050M		Analysis Date: 12/10/2009	SeqNo: 1838198						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	314.437	5.0	250.0	15.05	120	33	120				

Sample ID: 108944-032AMSD	SampType: MSD	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 12/10/2009	RunNo: 115856						
Client ID: 267P11-1	Batch ID: 60377	TestNo: EPA 6010B EPA 3050M		Analysis Date: 12/10/2009	SeqNo: 1838199						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	239.092	5.0	250.0	15.05	89.6	33	120	314.4	27.2	20	R

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |



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	Sample Condition Upon Receipt
Logged By: <u>[Signature]</u>	Client <input type="checkbox"/>	1. CHILLED <u>12/2</u> Y <input type="checkbox"/> N <input type="checkbox"/> 4. SEALED Y <input type="checkbox"/> N <input checked="" type="checkbox"/>
Date: <u>12/5/09</u>	ATL <input type="checkbox"/>	2. HEADSPACE (VOA) <u>12/2</u> Y <input checked="" type="checkbox"/> N <input type="checkbox"/> 5. # OF SPLS MATCH COC Y <input checked="" type="checkbox"/> N <input type="checkbox"/>
	CA OverN <input type="checkbox"/>	3. CONTAINER INTACT Y <input checked="" type="checkbox"/> N <input type="checkbox"/> 6. PRESERVED Y <input type="checkbox"/> N <input checked="" type="checkbox"/>
	FedEx <input type="checkbox"/>	
	Other: <u>GSO</u>	

Client: Geocon Inc. Attention: J. Juhrend	Address: 3160 Gold Valley Dr #800 City: Rancho Cordova State: CA Zip Code: 95742	Tel: 916.852.9118 Fax: 916.852.9132
--	---	--

Project Name: Hwy 267, I-80, 89, 50 ADL Project #: S9300-06-112 Sampler: Mike O'Brien (Signature)

Relinquished by: (Signature and Printed Name) [Signature] Date: 12/3/09 Time: 1630 Received by: (Signature and Printed Name) GSO Date: 12/3/09 Time: 1630

Relinquished by: (Signature and Printed Name) _____ Date: _____ Time: _____ Received by: (Signature and Printed Name) FP Diwa Date: 12/5/09 Time: 0920

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:
J. Juhrend
Print Name Date

Send Report To:
Attn: See Above
Co: _____
Addr: _____
City: _____ State: _____ Zip: _____

Bill To:
Attn: See Above
Co: _____
Addr: _____
City: _____ State: _____ Zip: _____

Special Instructions/Comments:
Homogenize as per CalTrans Contract # 03A1368
Please send EDF and EXCEL to
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												PRESERVATION					
	8081A (Pesticides)	8082 (PCB)	8280B (Volatiles)	8270C (BNA)	8010B (Total Metal)	8015B (GRO) / 8020 (BTEX)	8021 (DRO)	TITLE 22 / CAM 17 (6010 / 7000)	Total Lead	pH	SOIL	WATER		GROUND WATER	WASTEWATER	TAT	#	Type

ITEM	LAB USE ONLY:		Sample Description			
	Batch #:	Sample ID / Location	Date	Time		
	108944 - 001	267P1-0	12/2/09	1035		
	-2	↓ -1		1037		
	-3	↓ -2		1039		
	-4	267P2-0		1056		
	-5	↓ -1		1054		
	-6	↓ -2		1101		
	-7	267P3-0		1107		
	-8	↓ -1		1109		
	-9	↓ -2		1111		
	-10	267P4-0		1120		

■ 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

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

Preservatives: H=HCl N=HNO₃ S=H₂SO₄ C=4°C
Z=Zn(AC)₂ O=NaOH T=Na₂S₂O₃

CHAIN OF CUSTODY RECORD

<p>Advanced Technology Laboratories</p> <p>3275 Walnut Avenue Signal Hill, CA 90755 Tel: (562) 989-4045 • Fax: (562) 989-4040</p>		FOR LABORATORY USE ONLY												
		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: <u>GSO</u>		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 Inc. Attention: J. Juhrend			Address: 3160 Gold Valley Dr #800 City: Rancho Cordova State: CA Zip Code: 95742			Tel: 916.852.9118 Fax: 916.852.9132								
Project Name: Hwy 267, I-80, 89, 50 ADL		Project #: S9300-06-112		Sampler: Mike O'Brien		(Signature)								
Relinquished by: (Signature and Printed Name)		Date: 12/3/09		Time: 1630		Received by: (Signature and Printed Name)		Date: 12/3/09		Time: 1630				
Relinquished by: (Signature and Printed Name)		Date:		Time:		Received by: (Signature and Printed Name)		Date: 12/5/09		Time: 0920				
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: J. Juhrend Print Name Date		Send Report To: Attn: See Above Co: Addr: City: State: Zip:		Bill To: Attn: See Above Co: Addr: City: State: Zip:		Special Instructions/Comments: Homogenize as per CalTrans Contract # 03A1368 Please send EDF and EXCEL to 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 8081A (Pesticides) 8082 (PCB) 8260B (Volatiles) 8270C (BVA) 8010B (Total Metal) 8015B (GRO) / 8020 (BTEX) 8021 (BTEX) Total Lead pH SOIL WATER GROUND WATER WASTEWATER				SPECIFY APPROPRIATE MATRIX Container(s) TAT # Type PRESERVATION QA/QC RTNE <input type="checkbox"/> CT <input checked="" type="checkbox"/> SWRCB <input type="checkbox"/> Logcode _____ OTHER _____ REMARKS						
I T E M	LAB USE ONLY: Batch #:	Sample Description		Date	Time									
	Lab No.	Sample ID / Location												
	108944-11	267P4-1	12/2/09	1122							E	1	Ziplock	
	-12	↓ -2		1124										
	-13	267P5-0		1135										
	-14	↓ -1		1137										
	-15	↓ -2		1139										
	-16	267P6-0		1145										
	-17	↓ -1		1147										
	-18	↓ -2		1149										
	-19	267P7-0		1201										
	-20	↓ -1		1203										
■ TAT starts 8AM the following day if samples received after 3 PM		TAT: <input type="checkbox"/> A = Overnight ≤ 24 hrs <input type="checkbox"/> B = Emergency Next Workday <input type="checkbox"/> C = Critical 2 Workdays <input type="checkbox"/> D = Urgent 3 Workdays <input type="checkbox"/> E = Routine 7 Workdays		Preservatives: H=HCl N=HNO ₃ S=H ₂ SO ₄ C=4°C Z=Zn(AC) ₂ O=NaOH T=Na ₂ S ₂ O ₃		Container Types: T=Tube V=VOA L=Liter P=Pinnt J=Jar B=Tedlar G=Glass P=Plastic M=Metal								

CHAIN OF CUSTODY RECORD

 <p>Advanced Technology Laboratories 3275 Walnut Avenue Signal Hill, CA 90755 Tel: (562) 989-4045 • Fax: (562) 989-4040</p>		FOR LABORATORY USE ONLY							
		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: <u>CSU</u>		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 Inc. Attention: J. Juhrend		Address: 3160 Gold Valley Dr #800 City: Rancho Cordova State: CA Zip Code: 95742			Tel: 916.852.9118 Fax: 916.852.9132				
Project Name: Hwy 267, I-80, 89, 50 ADL		Project #: S9300-06-112		Sampler: Mike O'Brien		(Signature) 			
Relinquished by: (Signature and Printed Name) 		Date: <u>12/3/09</u> Time: <u>1630</u>		Received by: (Signature and Printed Name) <u>650</u>		Date: <u>12/3/09</u> Time: <u>1630</u>			
Relinquished by: (Signature and Printed Name)		Date: _____ Time: _____		Received by: (Signature and Printed Name) <u>FPDewar</u>		Date: <u>12/5/09</u> Time: <u>0920</u>			
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: <u>J. Juhrend</u> Print Name _____ Date _____ Signature _____		Send Report To: Attn: <u>See Above</u> Co: _____ Addr: _____ City: _____ State: _____ Zip: _____		Bill To: Attn: <u>See Above</u> Co: _____ Addr: _____ City: _____ State: _____ Zip: _____		Special Instructions/Comments: Homogenize as per CalTrans Contract # 03A1368 Please send EDF and EXCEL to <u>cook@geoconinc.com</u>			
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 8081A (Pesticides) _____ 8082 (PCB) _____ 8280S (Volatiles) _____ 8270C (BNA) _____ 8010B (Total Metals) _____ 8015B (GRO) / 8020 (BTEX) _____ 8021 (DRO) _____ TITLE 22 / CAM 17 (6010 / 7000) _____ Total Lead _____ pH _____ SOIL _____ WATER _____ GROUND WATER _____ WASTEWATER _____				SPECIFY APPROPRIATE MATRIX TAT # Type _____ _____ _____	
QAI/QC RTNE <input type="checkbox"/> CT <input checked="" type="checkbox"/> SWRCB <input type="checkbox"/> Logcode _____ OTHER _____				PRESERVATION REMARKS					
LAB USE ONLY: Batch #: _____ Lab No. _____		Sample Description Sample ID / Location _____ Date _____ Time _____		Container(s) _____					
108944-31 ↓ -32 ↓ -33 ↓ -34 ↓ -35		267P11-0 ↓ -1 267P12-0 ↓ -1 ↓ -2		12/2/09 ↓ 1305 ↓ 1307 ↓ 1320 ↓ 1322 ↓ 1324		X ↓ ↓ ↓ ↓			
TAT starts 8AM the following day if samples received after 3 PM		TAT: <input type="checkbox"/> A = Overnight ≤ 24 hrs <input type="checkbox"/> B = Emergency Next Workday <input type="checkbox"/> C = Critical 2 Workdays <input type="checkbox"/> D = Urgent 3 Workdays <input type="checkbox"/> E = Routine 7 Workdays		Preservatives: H=HCl N=HNO ₃ S=H ₂ SO ₄ C=4°C Z=Zn(AC) ₂ O=NaOH T=Na ₂ S ₂ O ₃					
Container Types: T=Tube V=VOA L=Liter P=Pin J=Jar B=Bedlar G=Glass P=Plastic M=Metal									

CHAIN OF CUSTODY RECORD

<p>Advanced Technology Laboratories 3275 Walnut Avenue Signal Hill, CA 90755 Tel: (562) 989-4045 • Fax: (562) 989-4040</p>		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: <u>G50</u>		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 Inc. Attention: J. Juhrend			Address: 3160 Gold Valley Dr #800 City: Rancho Cordova State: CA Zip Code: 95742				Tel: 916.852.9118 Fax: 916.852.9132																				
Project Name: Hwy 267, I-80, 89, 50 ADL		Project #: S9300-06-112		Sampler: Mike O'Brien		(Signature)																					
Relinquished by: (Signature and Printed Name)		Date: 12/3/09		Time: 1630		Received by: (Signature and Printed Name) <u>G50</u>		Date: 12/3/09		Time: 1630																	
Relinquished by: (Signature and Printed Name)		Date:		Time:		Received by: (Signature and Printed Name) <u>FPD</u>		Date: 12/5/09		Time: 0920																	
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: J. Juhrend Print Name Date		Send Report To: Attn: See Above Co: _____ Addr: _____ City: State: Zip:		Bill To: Attn: See Above Co: _____ Addr: _____ City: State: Zip:			Special Instructions/Comments: Homogenize as per CalTrans Contract # 03A1368 Please send EDF and EXCEL to 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		QAI/QC														
				<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="writing-mode: vertical-rl; transform: rotate(180deg);">8081A (Pesticides)</td> <td style="writing-mode: vertical-rl; transform: rotate(180deg);">8082 (PCB)</td> <td style="writing-mode: vertical-rl; transform: rotate(180deg);">8280E (Volatiles)</td> <td style="writing-mode: vertical-rl; transform: rotate(180deg);">8270C (BNA)</td> <td style="writing-mode: vertical-rl; transform: rotate(180deg);">6010B (Total Metal)</td> <td style="writing-mode: vertical-rl; transform: rotate(180deg);">8015B (GRO) / 8020 (BTEX)</td> <td style="writing-mode: vertical-rl; transform: rotate(180deg);">8015B (DRO)</td> <td style="writing-mode: vertical-rl; transform: rotate(180deg);">TITLE 22 / CAM 17 (6010 / 7000)</td> <td style="writing-mode: vertical-rl; transform: rotate(180deg);">Total Lead</td> <td style="writing-mode: vertical-rl; transform: rotate(180deg);">pH</td> <td style="writing-mode: vertical-rl; transform: rotate(180deg);">SOIL</td> <td style="writing-mode: vertical-rl; transform: rotate(180deg);">WATER</td> <td style="writing-mode: vertical-rl; transform: rotate(180deg);">GROUND WATER</td> <td style="writing-mode: vertical-rl; transform: rotate(180deg);">WASTEWATER</td> </tr> </table>							8081A (Pesticides)	8082 (PCB)	8280E (Volatiles)	8270C (BNA)	6010B (Total Metal)	8015B (GRO) / 8020 (BTEX)	8015B (DRO)	TITLE 22 / CAM 17 (6010 / 7000)	Total Lead	pH	SOIL	WATER	GROUND WATER	WASTEWATER	PRESERVATION		REMARKS
8081A (Pesticides)	8082 (PCB)	8280E (Volatiles)	8270C (BNA)	6010B (Total Metal)	8015B (GRO) / 8020 (BTEX)	8015B (DRO)	TITLE 22 / CAM 17 (6010 / 7000)	Total Lead	pH	SOIL	WATER	GROUND WATER	WASTEWATER														
LAB USE ONLY:		Sample Description									Container(s)																
Batch #:		Sample ID / Location		Date		Time				TAT # Type																	
Lab No.										E 1		Ziplock															
108944 - 54		PM53E1-0		12/3/09		1040		X		X																	
-55		-1		↓		1042				↓																	
-56		-2		↓		1044				↓																	
-57		PM53E2-0		↓		1050				↓																	
-58		-1		↓		1052				↓																	
-59		-2		↓		1054				↓																	
-60		PM53E3-0		↓		1100				↓																	
-61		-1		↓		1102				↓																	
-62		-2		↓		1104				↓																	
-63		PM53E4-0		↓		1105		X		X																	
■ TAT starts 8AM the following day if samples received after 3 PM		TAT: <input type="checkbox"/> A = Overnight ≤ 24 hrs		<input type="checkbox"/> B = Emergency Next Workday		<input type="checkbox"/> C = Critical 2 Workdays		<input type="checkbox"/> D = Urgent 3 Workdays		<input type="checkbox"/> E = Routine 7 Workdays		Preservatives: H=HCl N=HNO ₃ S=H ₂ SO ₄ C=4°C Z=Zn(AC) ₂ O=NaOH T=Na ₂ S ₂ O ₃															
Container Types: T=Tube V=VOA L=Liter P=Pin J=Jar B=Tedlar G=Glass P=Plastic M=Metal																											

CHAIN OF CUSTODY RECORD

FOR LABORATORY USE ONLY



**Advanced Technology
Laboratories**

3275 Walnut Avenue
Signal Hill, CA 90755

Tel: (562) 989-4045 • Fax: (562) 989-4040

P.O. #: _____	Method of Transport Client <input type="checkbox"/> ATL <input type="checkbox"/> CA OverN <input type="checkbox"/> FedEx <input type="checkbox"/> Other: <u>GSU</u>	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"/>
Logged By: _____ Date: _____		

Client: Geocon Inc.	Address: 3160 Gold Valley Dr #800	Tel: 916.852.9118
Attention: J. Juhrend	City: Rancho Cordova State: CA Zip Code: 95742	Fax: 916.852.9132

Project Name: Hwy 267, I-80, 89, 50 ADL	Project #: S9300-06-112	Sampler: Mike O'Brien	(Signature)
---	-------------------------	-----------------------	-------------

Relinquished by: (Signature and Printed Name)	Date: 12/3/09	Time: 1630	Received by: (Signature and Printed Name)	Date: 12/3/09	Time: 1630
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Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date: 12/5/09	Time: 0920
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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: J. Juhrend Print Name Date	Send Report To: Attn: See Above Co: _____ Addr: _____ City: _____ State: _____ Zip: _____	Bill To: Attn: See Above Co: _____ Addr: _____ City: _____ State: _____ Zip: _____	Special Instructions/Comments: Homogenize as per CalTrans Contract # 03A1368 Please send EDF and EXCEL to cook@geoconinc.com
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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										PRESERVATION			
	8081A (Pesticides)	8082 (PCB)	8280R (Volatiles)	8270C (BVA)	6010B (Total Metal)	6015B (GRO) / 8020 (BTX)	8021 (BTX)	Total Lead	pH	SOIL		WATER	GROUND WATER	WASTEWATER

I T E M	LAB USE ONLY:		Sample Description		
	Batch #:	Lab No.	Sample ID / Location	Date	Time
		108944-64	PM53E4-1	12/3/09	1107
		-65	↓ -2		1109
		-66	PM50E5-0		1135
		-67	↓ -1		1137
		-68	PM50E6-0		1150
		-69	↓ -1		1152
		-70	↓ -2		1154
		-71	PM50E7-0		1200
		-72	↓ -1		1202
		-73	↓ -2		1204

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

April 06, 2010



Gemma Reblando
Geocon Consultants, Inc.
3160 Gold Valley Drive, Suite 800
Rancho Cordova, CA 95742
TEL: (916) 852-9118
FAX: (916) 852-9132

ELAP No.: 1838
NELAP No.: 02107CA
NEVADA.: CA-401
CSDLAC No.: 10196

Workorder No.: 110980

RE: Hwy 267, I-80, 89, 50 ADL, S9300-06-112

Attention: Gemma Reblando

Enclosed are the results for sample(s) received on March 30, 2010 by Advanced Technology Laboratories . The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

Thank you for the opportunity to service the needs of your company.

Please feel free to call me at (562)989-4045 if I can be of further assistance to your company.

Sincerely,

Eddie F. Rodriguez
Laboratory Director

The cover letter is an integral part of this analytical report. This Laboratory Report cannot be reproduced in part or in its entirety without written permission from the client and Advanced Technology Laboratories.



**LEAD BY ICP
EPA 6010B**

ANALYTICAL RESULTS

CLIENT:	Geocon Consultants, Inc.	Lab Order:	110980
Project:	Hwy 267, I-80, 89, 50 ADL, S9300-06-112	Date Received	3/30/2010 9:41:00 AM
Project No:		Matrix:	Soil
Analyte:	Lead	Analyst:	SRB

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
110980-001A	89P17-0	57	mg/Kg	63006	5.0	1	3/29/2010	3/31/2010
110980-002A	89P17-1	7.1	mg/Kg	63006	5.0	1	3/29/2010	3/31/2010
110980-003A	89P17-2	ND	mg/Kg	63006	5.0	1	3/29/2010	3/31/2010
110980-007A	89P19-0	34	mg/Kg	63006	5.0	1	3/29/2010	3/31/2010
110980-008A	89P19-1	6.7	mg/Kg	63006	5.0	1	3/29/2010	3/31/2010
110980-009A	89P19-2	8.2	mg/Kg	63006	5.0	1	3/29/2010	3/31/2010
110980-013A	89P21-0	24	mg/Kg	63006	5.0	1	3/29/2010	3/31/2010
110980-014A	89P21-1	6.2	mg/Kg	63006	5.0	1	3/29/2010	3/31/2010
110980-015A	89P21-2	6.5	mg/Kg	63006	5.0	1	3/29/2010	3/31/2010
110980-019A	89P23-0	100	mg/Kg	63006	5.0	1	3/29/2010	3/31/2010
110980-020A	89P23-1	10	mg/Kg	63007	5.0	1	3/29/2010	3/31/2010
110980-021A	89P23-2	6.2	mg/Kg	63007	5.0	1	3/29/2010	3/31/2010
110980-025A	89P25-0	55	mg/Kg	63007	5.0	1	3/29/2010	3/31/2010
110980-026A	89P25-1	ND	mg/Kg	63007	5.0	1	3/29/2010	3/31/2010
110980-027A	89P25-2	10	mg/Kg	63007	5.0	1	3/29/2010	3/31/2010
110980-028A	89P26-0	16	mg/Kg	63007	5.0	1	3/29/2010	3/31/2010
110980-029A	89P26-1	5.2	mg/Kg	63007	5.0	1	3/29/2010	3/31/2010
110980-030A	89P26-2	5.5	mg/Kg	63007	5.0	1	3/29/2010	3/31/2010

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		



**LEAD BY ICP
EPA 6010B**

ANALYTICAL RESULTS

CLIENT:	Geocon Consultants, Inc.	Lab Order:	110980
Project:	Hwy 267, I-80, 89, 50 ADL, S9300-06-112	Date Received	3/30/2010 9:41:00 AM
Project No:		Matrix:	Soil
Analyte:	Lead	Analyst:	SRB

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
110980-031A	89P27-0	200	mg/Kg	63007	5.0	1	3/29/2010	3/31/2010
110980-032A	89P27-1	5.4	mg/Kg	63007	5.0	1	3/29/2010	3/31/2010
110980-033A	89P27-2	ND	mg/Kg	63007	5.0	1	3/29/2010	3/31/2010
110980-034A	PM59 E21-0	7.2	mg/Kg	63007	5.0	1	3/29/2010	3/31/2010
110980-035A	PM59 E21-1	25	mg/Kg	63007	5.0	1	3/29/2010	3/31/2010
110980-036A	PM59 E21-2	15	mg/Kg	63007	5.0	1	3/29/2010	3/31/2010
110980-037A	PM59 E22-0	85	mg/Kg	63007	5.0	1	3/29/2010	3/31/2010
110980-038A	PM59 E22-1	5.8	mg/Kg	63007	5.0	1	3/29/2010	3/31/2010
110980-039A	PM59 E22-2	5.7	mg/Kg	63007	5.0	1	3/29/2010	3/31/2010
110980-040A	PM59 E23-0	14	mg/Kg	63007	5.0	1	3/29/2010	3/31/2010
110980-041A	PM59 E23-1	39	mg/Kg	63007	5.0	1	3/29/2010	3/31/2010
110980-042A	PM59 E23-2	53	mg/Kg	63007	5.0	1	3/29/2010	3/31/2010

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		



CLIENT: Geocon Consultants, Inc.
Work Order: 110980
Project: Hwy 267, I-80, 89, 50 ADL, S9300-06-112

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_SPB

Sample ID: MB-63006A	SampType: MBLK	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 3/31/2010	RunNo: 119718						
Client ID: PBS	Batch ID: 63006	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 3/31/2010	SeqNo: 1908272						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead 0.140 5.0

Sample ID: LCS-63006	SampType: LCS	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 3/31/2010	RunNo: 119718						
Client ID: LCSS	Batch ID: 63006	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 3/31/2010	SeqNo: 1908273						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead 268.936 5.0 250.0 0.1403 108 80 120

Sample ID: 110956-034ADUP	SampType: DUP	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 3/31/2010	RunNo: 119718						
Client ID: ZZZZZZ	Batch ID: 63006	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 3/31/2010	SeqNo: 1908284						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead 28.632 5.0 30.94 7.76 20

Sample ID: 110956-034AMS	SampType: MS	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 3/31/2010	RunNo: 119718						
Client ID: ZZZZZZ	Batch ID: 63006	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 3/31/2010	SeqNo: 1908285						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

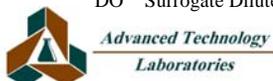
Lead 234.108 5.0 250.0 30.94 81.3 34 126

Sample ID: MB-63006B	SampType: MBLK	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 3/31/2010	RunNo: 119718						
Client ID: PBS	Batch ID: 63006	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 3/31/2010	SeqNo: 1908286						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead ND 5.0

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference



CLIENT: Geocon Consultants, Inc.
Work Order: 110980
Project: Hwy 267, I-80, 89, 50 ADL, S9300-06-112

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_SPB

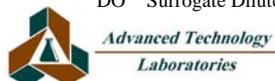
Sample ID: 110980-019ADUP	SampType: DUP	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 3/31/2010	RunNo: 119718						
Client ID: 89P23-0	Batch ID: 63006	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 3/31/2010	SeqNo: 1908297						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	115.763	5.0						104.2	10.5	20	

Sample ID: 110980-019AMS	SampType: MS	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 3/31/2010	RunNo: 119718						
Client ID: 89P23-0	Batch ID: 63006	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 3/31/2010	SeqNo: 1908298						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	322.003	5.0	250.0	104.2	87.1	34	126				

Sample ID: 110980-019AMSD	SampType: MSD	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 3/31/2010	RunNo: 119718						
Client ID: 89P23-0	Batch ID: 63006	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 3/31/2010	SeqNo: 1908299						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	348.976	5.0	250.0	104.2	97.9	34	126	322.0	8.04	20	

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |



3275 Walnut Avenue, Signal Hill, CA 90755 Tel: 562.989.4045 Fax: 562.989.4040

CLIENT: Geocon Consultants, Inc.
Work Order: 110980
Project: Hwy 267, I-80, 89, 50 ADL, S9300-06-112

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_SPB

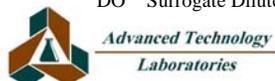
Sample ID: 110980-042ADUP	SampType: DUP	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 3/31/2010	RunNo: 119722						
Client ID: PM59 E23-2	Batch ID: 63007	TestNo: EPA 6010B EPA 3050M		Analysis Date: 3/31/2010	SeqNo: 1908378						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	54.034	5.0						52.78	2.35	20	

Sample ID: 110980-042AMS	SampType: MS	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 3/31/2010	RunNo: 119722						
Client ID: PM59 E23-2	Batch ID: 63007	TestNo: EPA 6010B EPA 3050M		Analysis Date: 3/31/2010	SeqNo: 1908379						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	257.770	5.0	250.0	52.78	82.0	34	126				

Sample ID: 110980-042AMSD	SampType: MSD	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 3/31/2010	RunNo: 119722						
Client ID: PM59 E23-2	Batch ID: 63007	TestNo: EPA 6010B EPA 3050M		Analysis Date: 3/31/2010	SeqNo: 1908380						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	273.984	5.0	250.0	52.78	88.5	34	126	257.8	6.10	20	

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |



CHAIN OF CUSTODY RECORD

 <p>Advanced Technology Laboratories</p> <p>3275 Walnut Avenue Signal Hill, CA 90755 Tel: (562) 989-4045 • Fax: (562) 989-4040</p>		FOR LABORATORY USE ONLY					
		Method of Transport: <u>17.0</u> Client: <input type="checkbox"/> ATL <input type="checkbox"/> CA OverN <input type="checkbox"/> FedEx <input type="checkbox"/> Other: <u>GSO</u>		Sample Condition Upon Receipt 1. CHILLED Y <input type="checkbox"/> N <input checked="" type="checkbox"/> 4. SEALED Y <input type="checkbox"/> N <input checked="" type="checkbox"/> 2. HEADSPACE (VOA) Y <input type="checkbox"/> N <input type="checkbox"/> 5. # OF SPLS MATCH COC Y <input checked="" type="checkbox"/> N <input type="checkbox"/> 3. CONTAINER INTACT Y <input checked="" type="checkbox"/> N <input type="checkbox"/> 6. PRESERVED Y <input type="checkbox"/> N <input checked="" type="checkbox"/>			
P.O. #: _____ Logged By: _____ Date: <u>3/30/10</u>		Address: 3160 Gold Valley Drive, Suite 800 City: Rancho Cordova State: CA Zip Code: 95742		Tel: 916.852.9118 Fax: 916.852.9132			
Client: GEOCON CONSULTANTS, INC Attention: GEMMA REBLANDO / reblando@geoconinc.com		Project Name: Hwy 267, I-80, 89, 50 ADL Project #: S9300-06-112 Sampler: (Printed Name) Gemma Reblando (Signature) <i>Gemma R Reblando</i> 3/29/10					
Relinquished by: (Signature and Printed Name) Gemma Reblando (Signature) <i>Gemma R Reblando</i> 3/29/10 Time: 1630		Received by: (Signature and Printed Name) <i>Mary [Signature]</i> Date: 3/30/10 Time: 9:41					
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: GEMMA REBLANDO 3/29/10 (Signature) <i>Gemma R Reblando</i>		Send Report To: Attn: _____ Co: SAME AS ABOVE Addr: _____ City: _____ State: _____ Zip: _____		Bill To: Attn: _____ Co: SAME AS ABOVE Addr: _____ City: _____ State: _____ Zip: _____			
Special Instructions/Comments: Caltrans Contract 03A1368. Please homogenize the samples prior to lead analysis. Send PDF and Excel copy of lab reports to 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 8087 Organochlorine Pesticides 8082 PCB 8100 PAH 8280B (VOCs) 8270C (SVOCs) GAS PACKAGE 8015B Modified (DRC and ORO) TITLE 22 / CAM 17 (6010B / 7000) TOTAL LEAD 6010B SOIL pH 8045 SOIL WATER GROUND WATER WASTEWATER CARBON		SPECIFY APPROPRIATE MATRIX TAT # Type E 1 Ziploc		PRESERVATION QA/QC RTNE <input type="checkbox"/> CT <input checked="" type="checkbox"/> SWRCB <input type="checkbox"/> Logcode _____ OTHER _____ REMARKS			
LAB USE ONLY: Batch #: _____ Lab No. _____		Sample Description Sample ID / Location Date Time 110980-067 89P17-0 3/29/10 1100 2 89P17-1 1101 3 89P17-2 1102 4 89P18-0 1110 5 89P18-1 1111 6 89P18-2 1112 7 89P19-0 1120 8 89P19-1 1121 9 89P19-2 1122 10 89P20-0 1130					
■ 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 ₃ S=H ₂ SO ₄ C=4°C Z=Zn(AC) ₂ O=NaOH T=Na ₂ S ₂ O ₃			
Container Types: T=Tube V=VOA L=Liter P=Pint J=Jar B=Tedlar G=Glass P=Plastic M=Metal							

CHAIN OF CUSTODY RECORD

 <p>Advanced Technology Laboratories</p> <p>3275 Walnut Avenue Signal Hill, CA 90755 Tel: (562) 989-4045 • Fax: (562) 989-4040</p>		FOR LABORATORY USE ONLY							
		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"/>					
P.O. #: _____ Logged By: _____ Date: _____		Address: 3160 Gold Valley Drive, Suite 800 City: Rancho Cordova State: CA Zip Code: 95742		Tel: 916.852.9118 Fax: 916.852.9132					
Client: GEOCON CONSULTANTS, INC Attention: GEMMA REBLANDO / reblando@geoconinc.com		Project Name: Hwy 267, I-80, 89, 50 ADL Project #: S9300-06-112				Sampler: (Printed Name) Gemma Reblando (Signature) <i>Gemma Reblando</i> 3/29/10			
Relinquished by: (Signature and Printed Name) Gemma Reblando Date: 3/29/10 Time: 1630		Received by: (Signature and Printed Name) <i>[Signature]</i> Date: 3/30/10 Time: 941							
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: GEMMA REBLANDO Date: 3/29/10 Signature: <i>Gemma Reblando</i>		Send Report To: Attn: _____ Co: SAME AS ABOVE Addr: _____ City: _____ State: _____ Zip: _____		Bill To: Attn: _____ Co: SAME AS ABOVE Addr: _____ City: _____ State: _____ Zip: _____		Special Instructions/Comments: Caltrans Contract 03A1368. Please homogenize the samples prior to lead analysis. Send PDF and Excel copy of lab reports to 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 8087 Organochlorine Pesticides 8082 PCB 8100 PAH 8260B (VOCs) 8270C (SVOCs) GAS PACKAGE 8015B/8260B 8015B Modified (DRO and ORO) TITLE 22 / CAM 17 (6010B / 7000) TOTAL LEAD 6010B SOIL pH 9045 SOIL WATER GROUND WATER WASTEWATER CARBON		SPECIFY APPROPRIATE MATRIX TAT # Type E 1 Ziploc		PRESERVATION QA/QC RTNE <input type="checkbox"/> CT <input checked="" type="checkbox"/> SWRCB <input type="checkbox"/> Logcode _____ OTHER _____ REMARKS _____			
LAB USE ONLY: Batch #: _____ Lab No. _____		Sample Description Sample ID / Location Date Time							
		11 89P20-1 3/29/10 1131 12 89P20-2 1132 13 89P21-0 1140 14 89P21-1 1141 15 89P21-2 1142 16 89P22-0 1148 17 89P22-1 1149 18 89P22-2 1150 17 89P23-0 1153 20 89P23-1 1154							
■ 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 ₃ S=H ₂ SO ₄ C=4°C Z=Zn(AC) ₂ O=NaOH T=Na ₂ S ₂ O ₃					
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**

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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"/> 2. HEADSPACE (VOA) Y <input type="checkbox"/> N <input type="checkbox"/> 3. CONTAINER INTACT Y <input type="checkbox"/> N <input type="checkbox"/>	4. SEALED Y <input type="checkbox"/> N <input type="checkbox"/> 5. # OF SPLS MATCH COC Y <input type="checkbox"/> N <input type="checkbox"/> 6. PRESERVED Y <input type="checkbox"/> N <input type="checkbox"/>
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Client: GEOCON CONSULTANTS, INC Attention: GEMMA REBLANDO / reblando@geoconinc.com	Address: 3160 Gold Valley Drive, Suite 800 City: Rancho Cordova State: CA Zip Code: 95742	Tel: 916.852.9118 Fax: 916.852.9132
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Project Name: Hwy 267, I-80, 89, 50 ADL	Project #: S9300-06-112	Sampler: (Printed Name) Gemma Reblando	(Signature) <i>Gemma Reblando</i> 3/29/10
Relinquished by: (Signature and Printed Name) Gemma Reblando <i>Gemma Reblando</i> 3/29/10	Time: 1630	Received by: (Signature and Printed Name) <i>Maria</i>	Date: 3/30/10 Time: 921
Relinquished by: (Signature and Printed Name)	Date:	Received by: (Signature and Printed Name)	Date: Time:
Relinquished by: (Signature and Printed Name)	Date:	Received by: (Signature and Printed Name)	Date: Time:

I hereby authorize ATL to perform the work indicated below: Project Mgr /Submitter: GEMMA REBLANDO 3/29/10 <i>Gemma Reblando</i> Signature Date	Send Report To: Attn: _____ Co: SAME AS ABOVE Addr: _____ City: _____ State: _____ Zip: _____	Bill To: Attn: _____ Co: SAME AS ABOVE Addr: _____ City: _____ State: _____ Zip: _____	Special Instructions/Comments: Caltrans Contract 03A1368. Please homogenize the samples prior to lead analysis. Send PDF and Excel copy of lab reports to cook@geoconinc.com
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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	<div style="display: flex; justify-content: space-between;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">8081 Organochlorine Pesticides</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">8082 PCB</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">8100 PAH</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">8260B (VOCs)</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">8270C (SVOCs)</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">GAS PACKAGE 8015B/8260B</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">8015B Modified (DRO and ORO)</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">TITLE 22 / CAM 17 (8010B / 7000)</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">TOTAL LEAD 8010B</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">SOIL pH 8045</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">SOIL</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">WATER</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">GROUND WATER</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">WASTEWATER</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">CARBON</div> </div>	SPECIFY APPROPRIATE MATRIX	PRESERVATION
	X	E	RTNE <input type="checkbox"/> CT <input checked="" type="checkbox"/>
		#	SWRCB Logcode
		Type	OTHER _____
		TAT	REMARKS

ITEM	LAB USE ONLY:		Sample Description		
	Batch #:	Sample ID / Location	Date	Time	Container(s)
	110980-21	89P23-2	3/29/10	1155	Ziploc
	22	89P24-0	↓	1200	↓
	23	89P24-1	↓	1201	↓
	24	89P24-2	↓	1202	↓
	25	89P25-0	↓	1230	↓
	26	89P25-1	↓	1231	↓
	27	89P25-2	↓	1232	↓
	28	89P26-0	↓	1245	↓
	29	89P26-1	↓	1246	↓
	30	89P26-2	↓	1247	↓

■ 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 ₃ S=H ₂ SO ₄ C=4°C Z=Zn(AC) ₂ O=NaOH T=Na ₂ S ₂ O ₃
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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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 CONSULTANTS, INC Attention: GEMMA REBLANDO / reblando@geoconinc.com	Address: 3160 Gold Valley Drive, Suite 800 City: Rancho Cordova State: CA Zip Code: 95742	Tel: 916.852.9118 Fax: 916.852.9132
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Project Name: Hwy 267, I-80, 89, 50 ADL	Project #: S9300-06-112	Sampler: (Printed Name) Gemma Reblando	(Signature) <i>Gemma Reblando</i> 3/29/10
Relinquished by: (Signature and Printed Name) Gemma Reblando	Date: 3/29/10	Time: 1630	Received by: (Signature and Printed Name) <i>Mary...</i>
Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)
Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)

I hereby authorize ATL to perform the work indicated below: Project Mgr /Submitter: GEMMA REBLANDO Date: 3/29/10 Signature: <i>Gemma Reblando</i>	Send Report To: Attn: _____ Co: SAME AS ABOVE Addr: _____ City: _____ State: _____ Zip: _____	Bill To: Attn: _____ Co: SAME AS ABOVE Addr: _____ City: _____ State: _____ Zip: _____	Special Instructions/Comments: Caltrans Contract 03A1368. Please homogenize the samples prior to lead analysis. Send PDF and Excel copy of lab reports to cook@geoconinc.com
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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)

I T E M	LAB USE ONLY:		Sample Description				SPECIFY APPROPRIATE MATRIX												PRESERVATION	REMARKS				
	Batch #:	Lab No.	Sample ID / Location	Date	Time	8081 Organochlorine Pesticides	8082 PCB	8100 PAH	8260B (VOCs)	8270C (SVOCs)	8015B PACKAGE 8015B/8260B Modified (DRO and ORO)	TITLE 22 / CAM 17 (6010B / 7000)	TOTAL LEAD 6010B	SOIL pH 9045	SOIL	WATER	GROUND WATER	WASTEWATER			CARBON	TAT #	Type	
	110980-31	89P27-0		3/29/10	1258							X		X							E	1	Ziploc	
		89P27-1			1259																			
		89P27-2			1260																			
		PM59E21-0			1440																			
		PM59E21-1			1441																			
		PM59E21-2			1442																			
		PM59E22-0			1446																			
		PM59E22-1			1447																			
		PM59E22-2			1448																			
		PM59E23-0			1457																			

■ 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 ₃ S=H ₂ SO ₄ C=4°C Z=Zn(AC) ₂ O=NaOH T=Na ₂ S ₂ O ₃
Container Types: T=Tube V=VOA L=Liter P=Pint J=Jar B=Bedlar G=Glass P=Plastic M=Metal						

CHAIN OF CUSTODY RECORD



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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 CONSULTANTS, INC Attention: GEMMA REBLANDO / reblando@geoconinc.com	Address: 3160 Gold Valley Drive, Suite 800 City: Rancho Cordova State: CA Zip Code: 95742	Tel: 916.852.9118 Fax: 916.852.9132
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Project Name: Hwy 267, I-80, 89, 50 ADL	Project #: S9300-06-112	Sampler: (Printed Name) Gemma Reblando	(Signature) <i>Gemma R Reblando</i> 3/29/10
Relinquished by: (Signature and Printed Name) Gemma Reblando <i>Gemma R Reblando</i> 3/29/10	Date: 3/29/10	Received by: (Signature and Printed Name) <i>Margo</i>	Date: 3/30/10 Time: 9:21
Relinquished by: (Signature and Printed Name)	Date:	Received by: (Signature and Printed Name)	Date: Time:
Relinquished by: (Signature and Printed Name)	Date:	Received by: (Signature and Printed Name)	Date: Time:

I hereby authorize ATL to perform the work indicated below: Project Mgr /Submitter: GEMMA REBLANDO 3/29/10 <i>Gemma R Reblando</i> Print Name Date Signature	Send Report To: Attn: _____ Co: SAME AS ABOVE Addr: _____ City: State: Zip:	Bill To: Attn: _____ Co: SAME AS ABOVE Addr: _____ City: State: Zip:	Special Instructions/Comments: Caltrans Contract 03A1368. Please homogenize the samples prior to lead analysis. Send PDF and Excel copy of lab reports to cook@geoconinc.com
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Sample/Records - Archival & Disposal
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 ■ Sample :\$2.00 / sample /mo (after 45 days)
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Circle or Add Analysis(es) Requested	8081 Organochlorine Pesticides	8082 PCB	8100 PAH	8260B (VOCs)	8270C (SVOCs)	GAS PACKAGE 8015B/8260B	8015B Modified (DRO and ORO)	TITLE 22 / CAM 17 (8010B / 7000)	TOTAL LEAD 6010B	SOIL pH 9045	SOIL	WATER	GROUND WATER	WASTEWATER	CARBON	SPECIFY APPROPRIATE MATRIX	PRESERVATION	QA/QC
	RTNE <input type="checkbox"/>	CT <input checked="" type="checkbox"/>	SWRCB <input type="checkbox"/>	Logcode _____	OTHER _____	REMARKS												

I T E M	LAB USE ONLY:		Sample Description														TAT	#	Type	REMARKS
	Batch #:	Sample ID / Location	Date	Time																
	41		PM59 E23-1	3/29/10	1458											E	1	Ziploc		
	42		PM59 E23-2	↓	1459											↓	1	↓		

■ 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 ₃ S=H ₂ SO ₄ C=4°C Z=Zn(AC) ₂ O=NaOH T=Na ₂ S ₂ O ₃
Container Types: T=Tube V=VOA L=Liter P=Pint J=Jar B=Tedlar G=Glass P=Plastic M=Metal						

Diane Galvan

From: Gemma Reblando [reblando@geoconinc.com]
Sent: Tuesday, March 30, 2010 9:35 AM
To: Diane Galvan
Cc: Carmen Aguila
Subject: Hwy 267, I-80, 89 and 50 ADL

Hi Diane – I shipped out 42 soil samples yesterday for total lead analysis. Please hold the following samples:

89P18-0
89P18-1
89P18-2
89P20-0
89P20-1
89P20-2
89P22-0
89P22-1
89P22-2
89P24-0
89P24-1
89P24-2

Thanks.

Gemma Reblando

Project Geologist

Please visit our new website at <http://www.geoconinc.com>

Geocon Consultants, Inc.

3160 Gold Valley Drive, Suite 800
Rancho Cordova, CA 95742
916.852.9118 Tel
916.852.9132 Fax
916.396.8476 Mobile



GEOTECHNICAL - ENVIRONMENTAL - MATERIALS

San Diego Murrieta Burbank Bakersfield Sacramento Livermore Carson City Las Vegas Portland

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3/30/2010

April 07, 2010



Ian Stevenson
Geocon Consultants, Inc.
3160 Gold Valley Drive, Suite 800
Rancho Cordova, CA 95742
TEL: (916) 869-4308
FAX: (916) 852-9132

ELAP No.: 1838
NELAP No.: 02107CA
NEVADA.: CA-401
CSDLAC No.: 10196
Workorder No.: 111003

RE: Hwy 267, I-80, 89, 50 ADL, S9300-06-112

Attention: Ian Stevenson

Enclosed are the results for sample(s) received on March 31, 2010 by Advanced Technology Laboratories . The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

Thank you for the opportunity to service the needs of your company.

Please feel free to call me at (562)989-4045 if I can be of further assistance to your company.

Sincerely,

Eddie F. Rodriguez
Laboratory Director

The cover letter and the case narrative are an integral part of this analytical report and cannot be reproduced in part or in its entirety without written permission from the client and Advanced Technology Laboratories.



CLIENT: Geocon Consultants, Inc.
Project: Hwy 267, I-80, 89, 50 ADL, S9300-06-112
Lab Order: 111003

CASE NARRATIVE

Analytical Comments for Method 6010

RPD for Sample Duplicate (DUP) is outside criteria for sample 111003-048ADUP; however, the Laboratory Control Sample (LCS) validated the analytical batch.



**LEAD BY ICP
EPA 6010B**

ANALYTICAL RESULTS

CLIENT:	Geocon Consultants, Inc.	Lab Order:	111003
Project:	Hwy 267, I-80, 89, 50 ADL, S9300-06-112	Date Received	3/31/2010 11:28:11 AM
Project No:		Matrix:	Soil
Analyte:	Lead	Analyst:	SRB

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
111003-001A	PM53E5-0	7.4	mg/Kg	63107	5.0	1	3/30/2010	4/6/2010
111003-002A	PM53E5-2	6.5	mg/Kg	63107	5.0	1	3/30/2010	4/6/2010
111003-004A	PM53E6-0	6.7	mg/Kg	63107	5.0	1	3/30/2010	4/6/2010
111003-005A	PM53E6-2	6.9	mg/Kg	63107	5.0	1	3/30/2010	4/6/2010
111003-007A	PM53E7-0	8.7	mg/Kg	63107	5.0	1	3/30/2010	4/6/2010
111003-008A	PM53E7-2	11	mg/Kg	63107	5.0	1	3/30/2010	4/6/2010
111003-010A	PM53E8-0	6.6	mg/Kg	63107	5.0	1	3/30/2010	4/6/2010
111003-011A	PM53E8-2	6.6	mg/Kg	63107	5.0	1	3/30/2010	4/6/2010
111003-013A	PM39E1-0	ND	mg/Kg	63107	5.0	1	3/30/2010	4/6/2010
111003-014A	PM39E1-2	ND	mg/Kg	63107	5.0	1	3/30/2010	4/6/2010
111003-016A	PM39E2-0	ND	mg/Kg	63107	5.0	1	3/30/2010	4/6/2010
111003-017A	PM39E2-2	ND	mg/Kg	63107	5.0	1	3/30/2010	4/6/2010
111003-019A	PM39E3-0	ND	mg/Kg	63107	5.0	1	3/30/2010	4/6/2010
111003-020A	PM39E3-2	ND	mg/Kg	63107	5.0	1	3/30/2010	4/6/2010
111003-022A	PM39E4-0	ND	mg/Kg	63107	5.0	1	3/30/2010	4/6/2010
111003-023A	PM39E4-2	ND	mg/Kg	63107	5.0	1	3/30/2010	4/6/2010
111003-025A	PM30.5E1-0	5.9	mg/Kg	63107	5.0	1	3/30/2010	4/6/2010
111003-026A	PM30.5E1-1	13	mg/Kg	63107	5.0	1	3/30/2010	4/6/2010

Qualifiers: B Analyte detected in the associated Method Blank E Value above quantitation range
H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit
S Spike/Surrogate outside of limits due to matrix interference Results are wet unless otherwise specified
DO Surrogate Diluted Out



**LEAD BY ICP
EPA 6010B**

ANALYTICAL RESULTS

CLIENT:	Geocon Consultants, Inc.	Lab Order:	111003
Project:	Hwy 267, I-80, 89, 50 ADL, S9300-06-112	Date Received	3/31/2010 11:28:11 AM
Project No:		Matrix:	Soil
Analyte:	Lead	Analyst:	SRB

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
111003-027A	PM30.5E1-2	15	mg/Kg	63107	5.0	1	3/30/2010	4/6/2010
111003-028A	PM30.5E2-0	77	mg/Kg	63107	5.0	1	3/30/2010	4/6/2010
111003-029A	PM30.5E2-1	15	mg/Kg	63108	5.0	1	3/30/2010	4/6/2010
111003-030A	PM30.5E2-2	11	mg/Kg	63108	5.0	1	3/30/2010	4/6/2010
111003-031A	PM30.5E3-0	29	mg/Kg	63108	5.0	1	3/30/2010	4/6/2010
111003-032A	PM30.5E3-1	12	mg/Kg	63108	5.0	1	3/30/2010	4/6/2010
111003-033A	PM30.5E3-2	13	mg/Kg	63108	5.0	1	3/30/2010	4/6/2010
111003-034A	PM30.5E4-0	150	mg/Kg	63108	5.0	1	3/30/2010	4/6/2010
111003-035A	PM30.5E4-1	28	mg/Kg	63108	5.0	1	3/30/2010	4/6/2010
111003-036A	PM30.5E4-2	14	mg/Kg	63108	5.0	1	3/30/2010	4/6/2010
111003-037A	PM30.5E5-0	27	mg/Kg	63108	5.0	1	3/30/2010	4/6/2010
111003-038A	PM30.5E5-1	17	mg/Kg	63108	5.0	1	3/30/2010	4/6/2010
111003-039A	PM30.5E5-2	13	mg/Kg	63108	5.0	1	3/30/2010	4/6/2010
111003-040A	PM30.5E6-0	26	mg/Kg	63108	5.0	1	3/30/2010	4/6/2010
111003-041A	PM30.5E6-1	14	mg/Kg	63108	5.0	1	3/30/2010	4/6/2010
111003-042A	PM30.5E6-2	12	mg/Kg	63108	5.0	1	3/30/2010	4/6/2010
111003-043A	PM30.5E7-0	44	mg/Kg	63108	5.0	1	3/30/2010	4/6/2010
111003-044A	PM30.5E7-1	11	mg/Kg	63108	5.0	1	3/30/2010	4/6/2010

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		



**LEAD BY ICP
EPA 6010B**

ANALYTICAL RESULTS

CLIENT:	Geocon Consultants, Inc.	Lab Order:	111003
Project:	Hwy 267, I-80, 89, 50 ADL, S9300-06-112	Date Received	3/31/2010 11:28:11 AM
Project No:		Matrix:	Soil
Analyte:	Lead	Analyst:	SRB

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
111003-045A	PM30.5E7-2	14	mg/Kg	63108	5.0	1	3/30/2010	4/6/2010
111003-046A	PM30.5E8-0	84	mg/Kg	63108	5.0	1	3/30/2010	4/6/2010
111003-047A	PM30.5E8-1	13	mg/Kg	63108	5.0	1	3/30/2010	4/6/2010
111003-048A	PM30.5E8-2	13	mg/Kg	63108	5.0	1	3/30/2010	4/6/2010

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		



CLIENT: Geocon Consultants, Inc.
Work Order: 111003
Project: Hwy 267, I-80, 89, 50 ADL, S9300-06-112

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_SPB

Sample ID: MB-63107A	SampType: MBLK	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 4/5/2010	RunNo: 119847
Client ID: PBS	Batch ID: 63107	TestNo: EPA 6010B EPA 3050M		Analysis Date: 4/6/2010	SeqNo: 1910444
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Lead 0.265 5.0

Sample ID: LCS-63107	SampType: LCS	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 4/5/2010	RunNo: 119847
Client ID: LCSS	Batch ID: 63107	TestNo: EPA 6010B EPA 3050M		Analysis Date: 4/6/2010	SeqNo: 1910446
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Lead 286.889 5.0 250.0 0.2652 115 80 120

Sample ID: 111003-014A-DUP	SampType: DUP	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 4/5/2010	RunNo: 119847
Client ID: PM39E1-2	Batch ID: 63107	TestNo: EPA 6010B EPA 3050M		Analysis Date: 4/6/2010	SeqNo: 1910456
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Lead 2.662 5.0 3.106 0 20

Sample ID: 111003-014A-MS	SampType: MS	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 4/5/2010	RunNo: 119847
Client ID: PM39E1-2	Batch ID: 63107	TestNo: EPA 6010B EPA 3050M		Analysis Date: 4/6/2010	SeqNo: 1910457
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

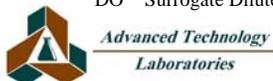
Lead 216.560 5.0 250.0 3.106 85.4 34 126

Sample ID: MB-63107B	SampType: MBLK	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 4/5/2010	RunNo: 119847
Client ID: PBS	Batch ID: 63107	TestNo: EPA 6010B EPA 3050M		Analysis Date: 4/6/2010	SeqNo: 1910458
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Lead ND 5.0

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference



CLIENT: Geocon Consultants, Inc.
Work Order: 111003
Project: Hwy 267, I-80, 89, 50 ADL, S9300-06-112

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_SPB

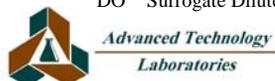
Sample ID: 111003-028A-DUP	SampType: DUP	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 4/5/2010	RunNo: 119847						
Client ID: PM30.5E2-0	Batch ID: 63107	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 4/6/2010	SeqNo: 1910469						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	72.520	5.0						77.05	6.06	20	

Sample ID: 111003-028A-MS	SampType: MS	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 4/5/2010	RunNo: 119847						
Client ID: PM30.5E2-0	Batch ID: 63107	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 4/6/2010	SeqNo: 1910470						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	311.875	5.0	250.0	77.05	93.9	34	126				

Sample ID: 111003-028A-MSD	SampType: MSD	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 4/5/2010	RunNo: 119847						
Client ID: PM30.5E2-0	Batch ID: 63107	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 4/6/2010	SeqNo: 1910471						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	312.198	5.0	250.0	77.05	94.1	34	126	311.9	0.104	20	

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |



CLIENT: Geocon Consultants, Inc.
Work Order: 111003
Project: Hwy 267, I-80, 89, 50 ADL, S9300-06-112

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_SPB

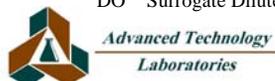
Sample ID: 111003-048A-DUP	SampType: DUP	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 4/5/2010	RunNo: 119850						
Client ID: PM30.5E8-2	Batch ID: 63108	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 4/6/2010	SeqNo: 1910550						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	10.527	5.0						13.28	23.1	20	R

Sample ID: 111003-048A-MS	SampType: MS	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 4/5/2010	RunNo: 119850						
Client ID: PM30.5E8-2	Batch ID: 63108	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 4/6/2010	SeqNo: 1910551						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	243.470	5.0	250.0	13.28	92.1	34	126				

Sample ID: 111003-048A-MSD	SampType: MSD	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 4/5/2010	RunNo: 119850						
Client ID: PM30.5E8-2	Batch ID: 63108	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 4/6/2010	SeqNo: 1910552						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	223.558	5.0	250.0	13.28	84.1	34	126	243.5	8.53	20	

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |



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

Method of Transport: Client ATL CA OverN FedEx Other: GSU

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

Client: **GEOCON CONSULTANTS, INC** Address: **3160 Gold Valley Drive, Suite 800** Tel: **916.852.9118**
 Attention: _____ City: **Rancho Cordova** State: **CA** Zip Code: **95742** Fax: **916.852.9132**

Project Name: **Hwy 267, I-80, 89, 50 ADL** Project #: **S9300-06-112** Sampler: **(Printed Name) Ian Stevenson** (Signature) _____
 Relinquished by: (Signature and Printed Name) Ian Stevenson Date: 3/30 Time: 1630 Received by: (Signature and Printed Name) GSU Date: 3/30 Time: 1630
 Relinquished by: (Signature and Printed Name) _____ Date: _____ Time: _____ Received by: (Signature and Printed Name) _____ Date: 3/31/10 Time: 11:55
 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: Ian Stevenson Date: 3/30/10
 Print Name: _____ Date: _____
 Signature: _____

Send Report To: Attn: _____ Co: **SAME AS ABOVE** Addr: _____ City: _____ State: _____ Zip: _____

Bill To: Attn: _____ Co: **SAME AS ABOVE** Addr: _____ City: _____ State: _____ Zip: _____

Special Instructions/Comments:
 Caltrans Contract 03A1368.
 Please homogenize the samples prior to lead analysis. Send PDF and Excel copy of lab reports to cook@geoconinc.com

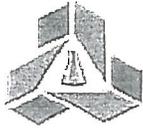
Sample/Records - Archival & Disposal
 Unless otherwise requested by client, all samples will be disposed 45 days after receipt and records will be disposed 1 year after submittal of final report.

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

I T E M	LAB USE ONLY:		Sample Description				SPECIFY APPROPRIATE MATRIX													PRESERVATION	REMARKS				
	Batch #:	Lab No.	Sample ID / Location	Date	Time	8081 Organochlorine Pesticides	8082 PCB	8100 PAH	8200B (VOCs)	8270C (SVOCs)	845 PAKAGE	8015B Modified (DRO and DRO)	TITLE 22 / CAM 17 (6010B / 7000)	TOTAL LEAD 8010B	SOIL pH 8045	SOIL	WATER	GROUND WATER	WASTEWATER			CARBON	TAT	#	Type
		111003 - 21	PM53E5 - 0	3/30/10	0924								X		X							E	1	Ziploc	
		- 2	PM53E5 - 2		0926																				
		- 3	PM53E5 - 4		0928																				
		- 4	PM53E6 - 0		0945																				
		- 5	PM53E6 - 2		0947																				
		- 6	PM53E6 - 4		0949																				
		- 7	PM53E7 - 0		0953																				
		- 8	PM53E7 - 2		0955																				
		- 9	PM53E7 - 4		0957																				
		- 10	PM53E8 - 0		1002																				

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=HNO₃ S=H₂SO₄ C=4°C
 Z=Zn(AC)₂ O=NaOH T=Na₂S₂O₃
 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"/>
Logged By: _____ Date: _____		

Client: GEOCON CONSULTANTS, INC	Address: 3160 Gold Valley Drive, Suite 800	Tel: 916.852.9118
Attention: _____	City: Rancho Cordova State: CA Zip Code: 95742	Fax: 916.852.9132

Project Name: Hwy 267, I-80, 89, 50 ADL	Project #: S9300-06-112	Sampler: (Printed Name) <i>Tom Stevenson</i>	(Signature) <i>[Signature]</i>
Relinquished by: (Signature and Printed Name) <i>[Signature]</i> Tom Stevenson	Date: 3/30	Time: 1630	Received by: (Signature and Printed Name) <i>[Signature]</i> GSO
Relinquished by: (Signature and Printed Name) <i>[Signature]</i>	Date: _____	Time: _____	Received by: (Signature and Printed Name) <i>[Signature]</i>
Relinquished by: (Signature and Printed Name) <i>[Signature]</i>	Date: _____	Time: _____	Received by: (Signature and Printed Name) <i>[Signature]</i>

I hereby authorize ATL to perform the work indicated below: Project Mgr / Submitter: <i>Tom Stevenson</i> 3/30 Print Name Date <i>[Signature]</i>	Send Report To: Attn: _____ Co: SAME AS ABOVE Addr: _____ City: _____ State: _____ Zip: _____	Bill To: Attn: _____ Co: SAME AS ABOVE Addr: _____ City: _____ State: _____ Zip: _____	Special Instructions/Comments: Caltrans Contract 03A1368. Please homogenize the samples prior to lead analysis. Send PDF and Excel copy of lab reports to 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				SPECIFY APPROPRIATE MATRIX												PRESERVATION	REMARKS					
	Batch #:	Lab No.	Sample ID / Location	Date	Time	8087 Organochlorine Pesticides	8082 PCB	8100 PAH	8260B Pesticides	8270C (VOCs)	GAS PACKAGE (SVOCs)	8015B Modified (DRO and ORO)	TITLE 22 / CAM 17 (8010B / 7000)	TOTAL LEAD 6010B	SOIL pH 9045	SOIL	WATER	GROUND WATER			WASTEWATER	CARBON	TAT	#	Type
	11/03-1		PM53E8-2	3/30	1008								X		X							E	1	Ziploc	
	-12		PM53E8-4		1006								HOLD												
	-13		PM39E1-0		1050																				
	-14		PM39E1-2		1052																				
	-15		PM39E1-4		1054								HOLD												
	-16		PM39E2-0		1058																				
	-17		PM39E2-2		1100																				
	-18		PM39E2-4		1102								HOLD												
	-19		PM37E3-0		1105																				
	-20		PM39E3-2		1107																				

■ 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 ₃ S=H ₂ SO ₄ C=4°C Z=Zn(AC) ₂ O=NaOH T=Na ₂ S ₂ O ₃
Container Types: T=Tube V=VOA L=Liter P=Pin J=Jar B=Tedlar G=Glass P=Plastic M=Metal						

CHAIN OF CUSTODY RECORD

 <p>Advanced Technology Laboratories</p> <p>3275 Walnut Avenue Signal Hill, CA 90755 Tel: (562) 989-4045 • Fax: (562) 989-4040</p>		FOR LABORATORY USE ONLY					
		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"/>			
P.O. #: _____ Logged By: _____ Date: _____		Address: 3160 Gold Valley Drive, Suite 800 City: Rancho Cordova State: CA Zip Code: 95742		Tel: 916.852.9118 Fax: 916.852.9132			
Client: GEOCON CONSULTANTS, INC Attention: _____		Project #: 59300-06-112 Project Name: Hwy 267, I-80, 89, 50 ADL		Sampler: (Printed Name) <u>Ian Stevenson</u> (Signature) <u>[Signature]</u>			
Relinquished by: (Signature and Printed Name) <u>[Signature] Ian Stevenson</u> Date: <u>3/30</u> Time: <u>1630</u>		Received by: (Signature and Printed Name) <u>[Signature] GSO</u> Date: <u>3/30</u> Time: <u>1630</u>					
Relinquished by: (Signature and Printed Name) _____ Date: _____ Time: _____		Received by: (Signature and Printed Name) <u>[Signature]</u> Date: <u>3/31/10</u> Time: <u>955</u>					
I hereby authorize ATL to perform the work indicated below: Project Mgr./Submitter: <u>Ian Stevenson</u> <u>3/30</u> Print Name _____ Date _____ Signature _____		Send Report To: Attn: _____ Co: SAME AS ABOVE Addr: _____ City: _____ State: _____ Zip: _____		Bill To: Attn: _____ Co: SAME AS ABOVE Addr: _____ City: _____ State: _____ Zip: _____			
Special Instructions/Comments: Caltrans Contract 03A1368. Please homogenize the samples prior to lead analysis. Send PDF and Excel copy of lab reports to 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 8081 Organochlorine Pesticides 8082 PCB 8100 PAH 8260B (VOCs) 8270C (SVOCs) GAS PACKAGE 8015B/8260B 8015B Modified (DRO and OPRO) TITLE 22 / CAM 17 (6010B / 7000) TOTAL LEAD 6010B SOIL pH 9045 SOIL WATER GROUND WATER WASTEWATER CARBON		SPECIFY APPROPRIATE MATRIX TAT # Type F 1 Ziploc			
I T E M LAB USE ONLY: Batch #: _____ Lab No. _____		Sample Description Sample ID / Location Date Time		PRESERVATION QA/QC RTNE <input type="checkbox"/> CT <input checked="" type="checkbox"/> SWRCB <input type="checkbox"/> Logcode _____ OTHER _____ REMARKS			
		11103-41 PM30.5E6-1 3/30 1322 -42 PM30.5E6-2 1324 -43 PM30.5E7-0 1330 -44 PM30.5E7-1 1332 -45 PM30.5E7-2 1334 -46 PM30.5E8-0 1336 -47 PM30.5E8-1 1338 -48 PM30.5E8-2 1340					
■ TAT starts 8AM the following day if samples received after 3 PM		TAT: A = <input type="checkbox"/> Overnight ≤ 24 hrs B = <input type="checkbox"/> Emergency Next Workday C = <input type="checkbox"/> Critical 2 Workdays D = <input type="checkbox"/> Urgent 3 Workdays E = <input type="checkbox"/> Routine 7 Workdays		Preservatives: H=HCl N=HNO ₃ S=H ₂ SO ₄ C=4°C Z=Zn(AC) ₂ O=NaOH T=Na ₂ S ₂ O ₃			
Container Types: T=Tube V=VOA L=Liter P=Pin J=Jar B=Tedlar G=Glass P=Plastic M=Metal							

April 14, 2010



Gemma Reblando
Geocon Consultants, Inc.
3160 Gold Valley Drive, Suite 800
Rancho Cordova, CA 95742
TEL: (916) 852-9118
FAX: (916) 852-9132

ELAP No.: 1838
NELAP No.: 02107CA
NEVADA.: CA-401
CSDLAC No.: 10196

Workorder No.: 110980

RE: Hwy 267, I-80, 89, 50 ADL, S9300-06-112

Attention: Gemma Reblando

Enclosed are the results for sample(s) received on March 30, 2010 by Advanced Technology Laboratories . The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

This is an addendum report. Please incorporate with documentation previously submitted.

Thank you for the opportunity to service the needs of your company.

Please feel free to call me at (562)989-4045 if I can be of further assistance to your company.

Sincerely,

Eddie F. Rodriguez
Laboratory Director

The cover letter is an integral part of this analytical report. This Laboratory Report cannot be reproduced in part or in its entirety without written permission from the client and Advanced Technology Laboratories.



LEAD BY ATOMIC ABSORPTION (STLC)
WET/ EPA 7420

ANALYTICAL RESULTS

CLIENT:	Geocon Consultants, Inc.	Lab Order:	110980
Project:	Hwy 267, I-80, 89, 50 ADL, S9300-06-112	Date Received	3/30/2010 9:41:00 AM
Project No:		Matrix:	Soil
Analyte:	Lead	Analyst:	IL

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
110980-001A	89P17-0	2.7	mg/L	63193	0.25	1	3/29/2010	4/12/2010
110980-019A	89P23-0	7.4	mg/L	63193	0.25	1	3/29/2010	4/12/2010
110980-025A	89P25-0	2.8	mg/L	63193	0.25	1	3/29/2010	4/12/2010
110980-031A	89P27-0	2.0	mg/L	63193	0.25	1	3/29/2010	4/12/2010

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		



CLIENT: Geocon Consultants, Inc.
Work Order: 110980
Project: Hwy 267, I-80, 89, 50 ADL, S9300-06-112

ANALYTICAL QC SUMMARY REPORT

TestCode: 7420_ST

Sample ID: MB-63193A	SampType: MBLK	TestCode: 7420_ST	Units: mg/L	Prep Date: 4/9/2010	RunNo: 120025						
Client ID: PBS	Batch ID: 63193	TestNo: WET/ EPA 74 WET		Analysis Date: 4/12/2010	SeqNo: 1913276						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead ND 0.25

Sample ID: LCS-63193	SampType: LCS	TestCode: 7420_ST	Units: mg/L	Prep Date: 4/9/2010	RunNo: 120025						
Client ID: LCSS	Batch ID: 63193	TestNo: WET/ EPA 74 WET		Analysis Date: 4/12/2010	SeqNo: 1913277						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead 4.787 0.25 5.000 0 95.7 80 120

Sample ID: 110980-031A-DUP	SampType: DUP	TestCode: 7420_ST	Units: mg/L	Prep Date: 4/9/2010	RunNo: 120025						
Client ID: 89P27-0	Batch ID: 63193	TestNo: WET/ EPA 74 WET		Analysis Date: 4/12/2010	SeqNo: 1913287						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead 1.942 0.25 1.965 1.18 20

Sample ID: 110980-031A-MS	SampType: MS	TestCode: 7420_ST	Units: mg/L	Prep Date: 4/9/2010	RunNo: 120025						
Client ID: 89P27-0	Batch ID: 63193	TestNo: WET/ EPA 74 WET		Analysis Date: 4/12/2010	SeqNo: 1913288						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

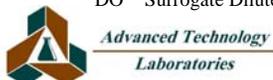
Lead 7.092 0.25 5.000 1.965 103 80 120

Sample ID: 110980-031A-MSD	SampType: MSD	TestCode: 7420_ST	Units: mg/L	Prep Date: 4/9/2010	RunNo: 120025						
Client ID: 89P27-0	Batch ID: 63193	TestNo: WET/ EPA 74 WET		Analysis Date: 4/12/2010	SeqNo: 1913289						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead 7.100 0.25 5.000 1.965 103 80 120 7.092 0.117 20

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference



Diane Galvan

From: Gemma Reblando [reblando@geoconinc.com]
Sent: Wednesday, April 07, 2010 3:22 PM
To: Diane Galvan
Cc: 'Rebecca Silva'
Subject: Results/EDD - Hwy 267, I-80,89,50 ADL (110980)

Hi Diane – please analyze the following samples for WET soluble lead under standard TAT:

110980-001A
110980-019A
110980-025A
110980-031A

Thanks.

Gemma Reblando
Project Geologist

Please visit our new website at <http://www.geoconinc.com>

Geocon Consultants, Inc.

3160 Gold Valley Drive, Suite 800
Rancho Cordova, CA 95742
916.852.9118 Tel
916.852.9132 Fax
916.396.8476 Mobile



GEOTECHNICAL - ENVIRONMENTAL - MATERIALS

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April 16, 2010



Ian Stevenson
Geocon Consultants, Inc.
3160 Gold Valley Drive, Suite 800
Rancho Cordova, CA 95742
TEL: (916) 869-4308
FAX: (916) 852-9132

ELAP No.: 1838
NELAP No.: 02107CA
NEVADA.: CA-401
CSDLAC No.: 10196

Workorder No.: 111003

RE: Hwy 267, I-80, 89, 50 ADL, S9300-06-112

Attention: Ian Stevenson

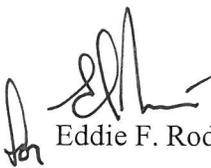
Enclosed are the results for sample(s) received on March 31, 2010 by Advanced Technology Laboratories . The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

This is an addendum report. Please incorporate with documentation previously submitted.

Thank you for the opportunity to service the needs of your company.

Please feel free to call me at (562)989-4045 if I can be of further assistance to your company.

Sincerely,


Eddie F. Rodriguez
Laboratory Director

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LEAD BY ATOMIC ABSORPTION (STLC)
WET/ EPA 7420

ANALYTICAL RESULTS

CLIENT:	Geocon Consultants, Inc.	Lab Order:	111003
Project:	Hwy 267, I-80, 89, 50 ADL, S9300-06-112	Date Received	3/31/2010 11:28:11 AM
Project No:		Matrix:	Soil
Analyte:	Lead	Analyst:	IL

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
111003-028A	PM30.5E2-0	5.3	mg/L	63250	0.25	1	3/30/2010	4/12/2010
111003-034A	PM30.5E4-0	6.9	mg/L	63250	0.25	1	3/30/2010	4/12/2010
111003-046A	PM30.5E8-0	0.32	mg/L	63250	0.25	1	3/30/2010	4/12/2010

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		



CLIENT: Geocon Consultants, Inc.
Work Order: 111003
Project: Hwy 267, I-80, 89, 50 ADL, S9300-06-112

ANALYTICAL QC SUMMARY REPORT

TestCode: 7420_ST

Sample ID: MB-63250A	SampType: MBLK	TestCode: 7420_ST	Units: mg/L	Prep Date: 4/9/2010	RunNo: 120026						
Client ID: PBS	Batch ID: 63250	TestNo: WET/ EPA 74 WET		Analysis Date: 4/12/2010	SeqNo: 1913290						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead ND 0.25

Sample ID: LCS-63250	SampType: LCS	TestCode: 7420_ST	Units: mg/L	Prep Date: 4/9/2010	RunNo: 120026						
Client ID: LCSS	Batch ID: 63250	TestNo: WET/ EPA 74 WET		Analysis Date: 4/12/2010	SeqNo: 1913291						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead 4.741 0.25 5.000 0 94.8 80 120

Sample ID: 111003-046A-DUP	SampType: DUP	TestCode: 7420_ST	Units: mg/L	Prep Date: 4/9/2010	RunNo: 120026						
Client ID: PM30.5E8-0	Batch ID: 63250	TestNo: WET/ EPA 74 WET		Analysis Date: 4/12/2010	SeqNo: 1913295						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead 0.344 0.25 0.3154 8.81 20

Sample ID: 111003-046A-MS	SampType: MS	TestCode: 7420_ST	Units: mg/L	Prep Date: 4/9/2010	RunNo: 120026						
Client ID: PM30.5E8-0	Batch ID: 63250	TestNo: WET/ EPA 74 WET		Analysis Date: 4/12/2010	SeqNo: 1913296						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

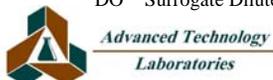
Lead 5.497 0.25 5.000 0.3154 104 80 120

Sample ID: 111003-046A-MSD	SampType: MSD	TestCode: 7420_ST	Units: mg/L	Prep Date: 4/9/2010	RunNo: 120026						
Client ID: PM30.5E8-0	Batch ID: 63250	TestNo: WET/ EPA 74 WET		Analysis Date: 4/12/2010	SeqNo: 1913297						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead 5.521 0.25 5.000 0.3154 104 80 120 5.497 0.430 20

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference



Diane Galvan

From: Gemma Reblando [reblando@geoconinc.com]
Sent: Friday, April 09, 2010 1:34 PM
To: Diane Galvan
Cc: Carmen Aguila
Subject: Results/EDD - Hwy 267, I-80, 89, 50 ADL (111003)

Hi Diane – please analyze the following samples for WET soluble lead under standard TAT:

111003-028A
111003-034A
111003-046A

Thanks.

Gemma Reblando
Project Geologist

Please visit our new website at <http://www.geoconinc.com>

Geocon Consultants, Inc.

3160 Gold Valley Drive, Suite 800
Rancho Cordova, CA 95742
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April 27, 2010



Gemma Reblando
Geocon Consultants, Inc.
3160 Gold Valley Drive, Suite 800
Rancho Cordova, CA 95742
TEL: (916) 852-9118
FAX: (916) 852-9132

ELAP No.: 1838
NELAP No.: 02107CA
NEVADA.: CA-401
CSDLAC No.: 10196

Workorder No.: 110980

RE: Hwy 267, I-80, 89, 50 ADL, S9300-06-112

Attention: Gemma Reblando

Enclosed are the results for sample(s) received on March 30, 2010 by Advanced Technology Laboratories . The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

This is an addendum report. Please incorporate with documentation previously submitted.

Thank you for the opportunity to service the needs of your company.

Please feel free to call me at (562)989-4045 if I can be of further assistance to your company.

Sincerely,

A handwritten signature in black ink, appearing to read "E. Rodriguez".

Eddie F. Rodriguez
Laboratory Director

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**LEAD BY ATOMIC ABSORPTION (TCLP)
EPA 1311/ 7420**

ANALYTICAL RESULTS

CLIENT:	Geocon Consultants, Inc.	Lab Order:	110980
Project:	Hwy 267, I-80, 89, 50 ADL, S9300-06-112	Date Received	3/30/2010 9:41:00 AM
Project No:		Matrix:	Soil
Analyte:	Lead	Analyst:	IL

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
110980-019A	89P23-0	0.60	mg/L	63585	0.25	1	3/29/2010	4/23/2010
110980-031A	89P27-0	0.31	mg/L	63585	0.25	1	3/29/2010	4/23/2010

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		



CLIENT: Geocon Consultants, Inc.
Work Order: 110980
Project: Hwy 267, I-80, 89, 50 ADL, S9300-06-112

ANALYTICAL QC SUMMARY REPORT

TestCode: 7420_TC

Sample ID: MB-63585	SampType: MBLK	TestCode: 7420_TC	Units: mg/L	Prep Date: 4/22/2010	RunNo: 120471						
Client ID: PBS	Batch ID: 63585	TestNo: EPA 1311/ 74 EPA3010A		Analysis Date: 4/23/2010	SeqNo: 1922355						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead ND 0.25

Sample ID: MB-63565A TCLP	SampType: MBLK	TestCode: 7420_TC	Units: mg/L	Prep Date: 4/22/2010	RunNo: 120471						
Client ID: PBS	Batch ID: 63585	TestNo: EPA 1311/ 74 EPA3010A		Analysis Date: 4/23/2010	SeqNo: 1922356						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead ND 0.25

Sample ID: LCS-63585	SampType: LCS	TestCode: 7420_TC	Units: mg/L	Prep Date: 4/22/2010	RunNo: 120471						
Client ID: LCSS	Batch ID: 63585	TestNo: EPA 1311/ 74 EPA3010A		Analysis Date: 4/23/2010	SeqNo: 1922357						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead 1.136 0.25 1.000 0 114 80 120

Sample ID: 111162-257A-DUP	SampType: DUP	TestCode: 7420_TC	Units: mg/L	Prep Date: 4/22/2010	RunNo: 120471						
Client ID: ZZZZZZ	Batch ID: 63585	TestNo: EPA 1311/ 74 EPA3010A		Analysis Date: 4/23/2010	SeqNo: 1922364						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead ND 0.25 0 0 20

Sample ID: 111162-257A-MS	SampType: MS	TestCode: 7420_TC	Units: mg/L	Prep Date: 4/22/2010	RunNo: 120471						
Client ID: ZZZZZZ	Batch ID: 63585	TestNo: EPA 1311/ 74 EPA3010A		Analysis Date: 4/23/2010	SeqNo: 1922365						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead 2.385 0.25 2.500 0 95.4 70 130

Qualifiers:

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike/Surrogate outside of limits due to matrix interference
- DO Surrogate Diluted Out
- Calculations are based on raw values



CLIENT: Geocon Consultants, Inc.
Work Order: 110980
Project: Hwy 267, I-80, 89, 50 ADL, S9300-06-112

ANALYTICAL QC SUMMARY REPORT

TestCode: 7420_TC

Sample ID: 111162-257A-MSD	SampType: MSD	TestCode: 7420_TC	Units: mg/L	Prep Date: 4/22/2010	RunNo: 120471						
Client ID: ZZZZZZ	Batch ID: 63585	TestNo: EPA 1311/ 74 EPA3010A		Analysis Date: 4/23/2010	SeqNo: 1922366						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	2.317	0.25	2.500	0	92.7	70	130	2.385	2.89	20	

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |



*Advanced Technology
Laboratories*

3275 Walnut Avenue, Signal Hill, CA 90755 Tel: 562.989.4045 Fax: 562.989.4040

Diane Galvan

From: Gemma Reblando [reblando@geoconinc.com]
Sent: Tuesday, April 20, 2010 2:56 PM
To: Diane Galvan
Cc: 'Rebecca Silva'; 'Rajive Chadha'
Subject: Hwy 267, I-80,89,50 ADL (110980, 111003)

Hi Diane – please analyze the following samples for TCLP soluble lead under 5-day TAT:

110980-019A
110980-031A
111003-034A

Thanks.

Gemma Reblando
Project Geologist

Please visit our new website at <http://www.geoconinc.com>

Geocon Consultants, Inc.

3160 Gold Valley Drive, Suite 800
Rancho Cordova, CA 95742
916.852.9118 Tel
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April 27, 2010



Ian Stevenson
Geocon Consultants, Inc.
3160 Gold Valley Drive, Suite 800
Rancho Cordova, CA 95742
TEL: (916) 869-4308
FAX: (916) 852-9132

ELAP No.: 1838
NELAP No.: 02107CA
NEVADA.: CA-401
CSDLAC No.: 10196

Workorder No.: 111003

RE: Hwy 267, I-80, 89, 50 ADL, S9300-06-112

Attention: Ian Stevenson

Enclosed are the results for sample(s) received on March 31, 2010 by Advanced Technology Laboratories . The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

This is an addendum report. Please incorporate with documentation previously submitted.

Thank you for the opportunity to service the needs of your company.

Please feel free to call me at (562)989-4045 if I can be of further assistance to your company.

Sincerely,

A handwritten signature in black ink, appearing to read "E. Rodriguez", is written over a light blue and white background.

Eddie F. Rodriguez
Laboratory Director

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LEAD BY ATOMIC ABSORPTION (TCLP)
EPA 1311/ 7420

ANALYTICAL RESULTS

CLIENT:	Geocon Consultants, Inc.	Lab Order:	111003
Project:	Hwy 267, I-80, 89, 50 ADL, S9300-06-112	Date Received	3/31/2010 11:28:11 AM
Project No:		Matrix:	Soil
Analyte:	Lead	Analyst:	IL

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
111003-034A	PM30.5E4-0	0.53	mg/L	63585	0.25	1	3/30/2010	4/23/2010

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		



CLIENT: Geocon Consultants, Inc.
Work Order: 111003
Project: Hwy 267, I-80, 89, 50 ADL, S9300-06-112

ANALYTICAL QC SUMMARY REPORT

TestCode: 7420_TC

Sample ID: MB-63585	SampType: MBLK	TestCode: 7420_TC	Units: mg/L	Prep Date: 4/22/2010	RunNo: 120471
Client ID: PBS	Batch ID: 63585	TestNo: EPA 1311/ 74 EPA3010A		Analysis Date: 4/23/2010	SeqNo: 1922355
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Lead ND 0.25

Sample ID: MB-63565A TCLP	SampType: MBLK	TestCode: 7420_TC	Units: mg/L	Prep Date: 4/22/2010	RunNo: 120471
Client ID: PBS	Batch ID: 63585	TestNo: EPA 1311/ 74 EPA3010A		Analysis Date: 4/23/2010	SeqNo: 1922356
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Lead ND 0.25

Sample ID: LCS-63585	SampType: LCS	TestCode: 7420_TC	Units: mg/L	Prep Date: 4/22/2010	RunNo: 120471
Client ID: LCSS	Batch ID: 63585	TestNo: EPA 1311/ 74 EPA3010A		Analysis Date: 4/23/2010	SeqNo: 1922357
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Lead 1.136 0.25 1.000 0 114 80 120

Sample ID: 111162-257A-DUP	SampType: DUP	TestCode: 7420_TC	Units: mg/L	Prep Date: 4/22/2010	RunNo: 120471
Client ID: ZZZZZZ	Batch ID: 63585	TestNo: EPA 1311/ 74 EPA3010A		Analysis Date: 4/23/2010	SeqNo: 1922364
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

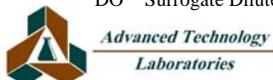
Lead ND 0.25 0 0 20

Sample ID: 111162-257A-MS	SampType: MS	TestCode: 7420_TC	Units: mg/L	Prep Date: 4/22/2010	RunNo: 120471
Client ID: ZZZZZZ	Batch ID: 63585	TestNo: EPA 1311/ 74 EPA3010A		Analysis Date: 4/23/2010	SeqNo: 1922365
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Lead 2.385 0.25 2.500 0 95.4 70 130

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference



CLIENT: Geocon Consultants, Inc.
Work Order: 111003
Project: Hwy 267, I-80, 89, 50 ADL, S9300-06-112

ANALYTICAL QC SUMMARY REPORT

TestCode: 7420_TC

Sample ID: 111162-257A-MSD	SampType: MSD	TestCode: 7420_TC	Units: mg/L	Prep Date: 4/22/2010	RunNo: 120471						
Client ID: ZZZZZZ	Batch ID: 63585	TestNo: EPA 1311/ 74 EPA3010A		Analysis Date: 4/23/2010	SeqNo: 1922366						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	2.317	0.25	2.500	0	92.7	70	130	2.385	2.89	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		



*Advanced Technology
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Diane Galvan

From: Gemma Reblando [reblando@geoconinc.com]
Sent: Tuesday, April 20, 2010 2:56 PM
To: Diane Galvan
Cc: 'Rebecca Silva'; 'Rajive Chadha'
Subject: Hwy 267, I-80,89,50 ADL (110980, 111003)

Hi Diane – please analyze the following samples for TCLP soluble lead under 5-day TAT:

110980-019A
110980-031A
111003-034A

Thanks.

Gemma Reblando
Project Geologist

Please visit our new website at <http://www.geoconinc.com>

Geocon Consultants, Inc.
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Rancho Cordova, CA 95742
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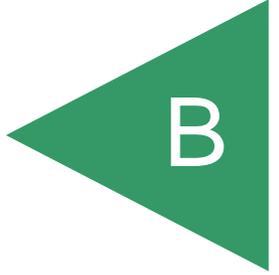


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APPENDIX

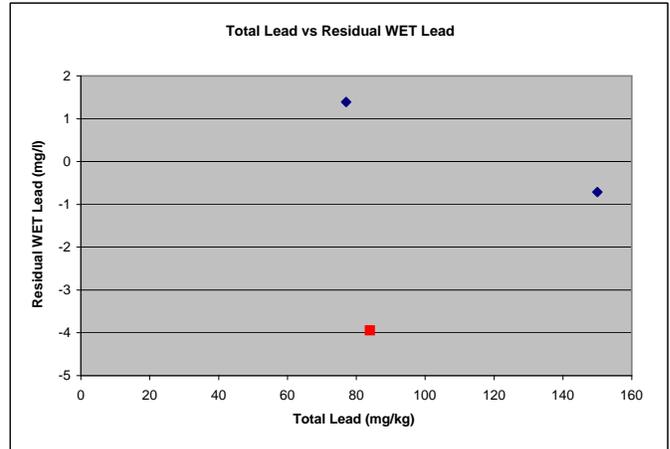
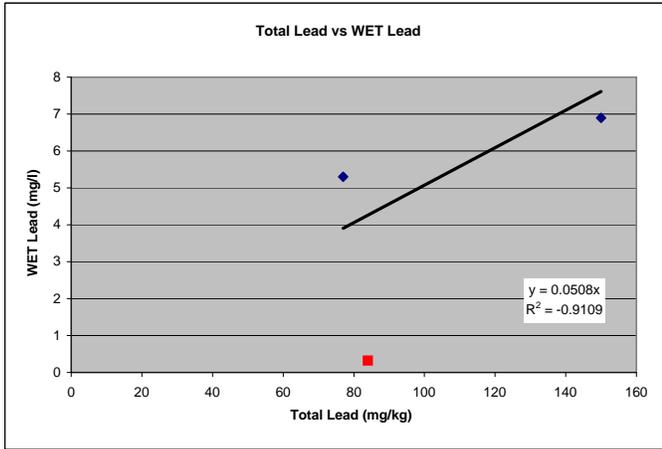


Highways 50, 80, 89 and 267
S9300-06-112

DATA POPULATION #1 - Highway 50

Sample ID	Total Lead (mg/kg)	WET Lead (mg/l)	Residual WET Lead (mg/l)	Squared Residual WET Lead (mg/l)
PM30.5E4-0	150	6.9	-0.71	0.51
PM30.5E2-0	77	5.3	1.39	1.94
<u>Not Used</u>				
PM30.5E8-0	84	0.32	-3.94	15.55

slope	y-intercept	predicted WET	residual WET
0.0508	0	7.6	-0.71
		3.9	1.39
		4.3	-3.94



DESCRIPTION OF DATA SET

Project Name: Highways 50, 80, 89 and 267
Project No.: S9300-06-112
Sample Interval: 0.0 to 1.0 ft

DATA POPULATION #1
Highway 50 Post Mile 30.5

DATA SET STATISTICS

Number of Valid Samples	8
Number of Distinct Samples	8
Minimum	5.9
Maximum	150
Mean	55.3625
Median	36.5
Standard Deviation	46.57062034
Variance	2168.822679
Coefficient of Variation	0.841194316
Skewness	1.305533732
Mean of log data	3.658203592
Standard Deviation of log data	0.988113852

90% Non-parametric UCLs

Standard Bootstrap UCL 75.8337331

95% Non-parametric UCLs

Standard Bootstrap UCL 80.27816478

DESCRIPTION OF DATA SET

Project Name: Highways 50, 80, 89 and 267
Project No.: S9300-06-112
Sample Interval: 1.0 to 2.0 ft

DATA POPULATION #1

Highway 50 Post Mile 30.5

DATA SET STATISTICS

Number of Valid Samples	8
Number of Distinct Samples	7
Minimum	11
Maximum	28
Mean	15.375
Median	13.5
Standard Deviation	5.423165
Variance	29.410714
Coefficient of Variation	0.352726
Skewness	2.227173
Mean of log data	2.690653
Standard Deviation of log data	0.291429

90% Non-parametric UCLs

Standard Bootstrap UCL 17.54960726

95% Non-parametric UCLs

Standard Bootstrap UCL 18.26071475

DESCRIPTION OF DATA SET

Project Name: Highways 50, 80, 89 and 267
Project No.: S9300-06-112
Sample Interval: 2.0 to 3.0 ft

DATA POPULATION #1

Highway 50 Post Mile 30.5

DATA SET STATISTICS

Number of Valid Samples	8
Number of Distinct Samples	5
Minimum	11
Maximum	15
Mean	13.125
Median	13
Standard Deviation	1.246423
Variance	1.553571
Coefficient of Variation	0.094966
Skewness	-0.304319
Mean of log data	2.570477
Standard Deviation of log data	0.096755

90% Non-parametric UCLs

Standard Bootstrap UCL 13.65421448

95% Non-parametric UCLs

Standard Bootstrap UCL 13.82564312

SUMMARY OF STATISTICAL ANALYSIS
HIGHWAYS 50, 80, 89 AND 267
EL DORADO, PLACER AND NEVADA COUNTIES, CALIFORNIA

DATA POPULATION #1 - HIGHWAY 50 PM 30.5

Total Lead UCLs (mg/kg)		
Sample Interval (feet)	90% UCL	95% UCL
0 to 1.0	75.8	80.3
1.0 to 2.0	17.5	18.3
2.0 to 3.0	13.7	13.8

Excavation Scenarios				
Excavation Depth	90% UCL		95% UCL	
	Total Lead (mg/kg)	Soluble (WET) Lead * (mg/l)	Total Lead (mg/kg)	Soluble (WET) Lead * (mg/l)
0.0 to 1.0 foot	75.8	7.6	80.3	8.0
<i>Underlying Soil (1.0 to 3.0 feet)</i>	15.6	1.6	16.1	1.6
0.0 to 2.0 feet	46.7	4.7	49.3	4.9
<i>Underlying Soil (2.0 to 3.0 feet)</i>	13.7	1.4	13.8	1.4
0.0 to 3.0 feet	35.7	3.6	37.5	3.7

Notes:

UCL = Upper Confidence Level

90% UCL applicable for waste classification and onsite reuse

95% UCL applicable for risk assessment and offsite disposal

mg/kg = milligrams per kilogram

mg/l = milligrams per liter

* = Soluble (WET) lead concentrations were predicted using slope of the regression line,

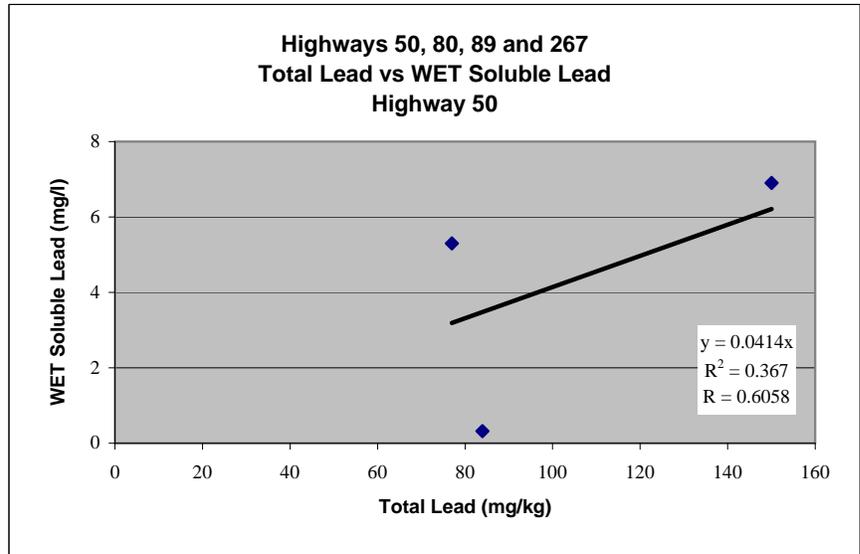
where y = predicted soluble (WET) lead and x = total lead

Regression Line Slope: $y = 0.1000 x$

Highways 50, 80, 89 and 267
S9300-06-112

DATA POPULATION #1 - Highway 50

Sample ID	Total Lead	WET Lead
PM30.5E8-0	84	0.32
PM30.5E4-0	150	6.9
PM30.5E2-0	77	5.3



DESCRIPTION OF DATA SET

Project Name: Highways 50, 80, 89 and 267
Project No.: S9300-06-112
Sample Interval: 0.0 to 1.0 ft

DATA POPULATION #3

Highway 50 Post Mile 47.3

DATA SET STATISTICS

Number of Valid Samples	10
Number of Distinct Samples	9
Minimum	2.5
Maximum	90
Mean	19.88
Median	10.65
Standard Deviation	26.1217151
Variance	682.344
Coefficient of Variation	1.313969573
Skewness	2.601698294
Mean of log data	2.487711019
Standard Deviation of log data	0.985717946

90% Non-parametric UCLs

Standard Bootstrap UCL 30.11801047

95% Non-parametric UCLs

Standard Bootstrap UCL 32.53089367

DESCRIPTION OF DATA SET

Project Name: Highways 50, 80, 89 and 267
Project No.: S9300-06-112
Sample Interval: 1.0 to 2.0 ft

DATA POPULATION #3

Highway 50 Post Mile 47.3

DATA SET STATISTICS

Number of Valid Samples	10
Number of Distinct Samples	10
Minimum	2.5
Maximum	70
Mean	17.82
Median	8.8
Standard Deviation	21.196845
Variance	449.306222
Coefficient of Variation	1.189497
Skewness	2.086813
Mean of log data	2.403108
Standard Deviation of log data	0.978402

90% Non-parametric UCLs

Standard Bootstrap UCL 26.12981131

95% Non-parametric UCLs

Standard Bootstrap UCL 28.23464517

DESCRIPTION OF DATA SET

Project Name: Highways 50, 80, 89 and 267
Project No.: S9300-06-112
Sample Interval: 2.0 to 3.0 ft

DATA POPULATION #3

Highway 50 Post Mile 47.3

DATA SET STATISTICS

Number of Valid Samples	7
Number of Distinct Samples	5
Minimum	2.5
Maximum	9.4
Mean	5.342857143
Median	6.2
Standard Deviation	2.869876
Variance	8.236190
Coefficient of Variation	0.537143
Skewness	0.178901
Mean of log data	1.533446
Standard Deviation of log data	0.594423

90% Non-parametric UCLs

Standard Bootstrap UCL 6.661456579

95% Non-parametric UCLs

Standard Bootstrap UCL 6.961794141

DESCRIPTION OF DATA SET

Project Name: Highways 50, 80, 89 and 267
Project No.: S9300-06-112
Sample Interval: 0.0 to 1.0 ft

DATA POPULATION #5

Highway 50 Post Mile 53.2

DATA SET STATISTICS

Number of Valid Samples	8
Number of Distinct Samples	7
Minimum	6.4
Maximum	25
Mean	9.6875
Median	7.7
Standard Deviation	6.253784568
Variance	39.10982143
Coefficient of Variation	0.645551956
Skewness	2.710164185
Mean of log data	2.158989823
Standard Deviation of log data	0.44498549

90% Non-parametric UCLs

Standard Bootstrap UCL 12.33166295

95% Non-parametric UCLs

Standard Bootstrap UCL 13.06647332

DESCRIPTION OF DATA SET

Project Name: Highways 50, 80, 89 and 267
Project No.: S9300-06-112
Sample Interval: 1.0 to 2.0 ft

DATA POPULATION #5

Highway 50 Post Mile 53.2

DATA SET STATISTICS

Number of Valid Samples	4
Number of Distinct Samples	4
Minimum	9.1
Maximum	48
Mean	21.275
Median	14
Standard Deviation	18.039840
Variance	325.435833
Coefficient of Variation	0.847936
Skewness	1.855315
Mean of log data	2.834243
Standard Deviation of log data	0.728687

90% Non-parametric UCLs

Standard Bootstrap UCL 31.2617724

95% Non-parametric UCLs

Standard Bootstrap UCL 33.96921869

DESCRIPTION OF DATA SET

Project Name: Highways 50, 80, 89 and 267
Project No.: S9300-06-112
Sample Interval: 2.0 to 3.0 ft

DATA POPULATION #5**Highway 50 Post Mile 53.2****DATA SET STATISTICS**

Number of Valid Samples	8
Number of Distinct Samples	8
Minimum	6.5
Maximum	94
Mean	35
Median	28.5
Standard Deviation	32.406833
Variance	1050.202857
Coefficient of Variation	0.925910
Skewness	0.782056
Mean of log data	3.056984
Standard Deviation of log data	1.137093

90% Non-parametric UCLs

Standard Bootstrap UCL	48.31900335
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95% Non-parametric UCLs

Standard Bootstrap UCL	51.89273847
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SUMMARY OF STATISTICAL ANALYSIS
HIGHWAYS 50, 80, 89 AND 267
EL DORADO, PLACER AND NEVADA COUNTIES, CALIFORNIA

DATA POPULATION #5 - HIGHWAY 50 PM 53.2

Total Lead UCLs (mg/kg)		
Sample Interval (feet)	90% UCL	95% UCL
0 to 1.0	12.3	13.1
1.0 to 2.0	31.3	34.0
2.0 to 3.0	48.3	51.9

Excavation Scenarios		
	90% UCL	95% UCL
Excavation Depth	Total Lead (mg/kg)	Total Lead (mg/kg)
0.0 to 1.0 foot	12.3	13.1
0.0 to 2.0 feet	21.8	23.6
0.0 to 3.0 feet	30.6	33.0

Notes:

UCL = Upper Confidence Level

90% UCL applicable for waste classification and onsite reuse

95% UCL applicable for risk assessment and offsite disposal

mg/kg = milligrams per kilogram

DESCRIPTION OF DATA SET

Project Name: Highways 50, 80, 89 and 267
Project No.: S9300-06-112
Sample Interval: 0.0 to 1.0 ft

DATA POPULATION #6

Highway 50 Post Mile 58.9

DATA SET STATISTICS

Number of Valid Samples	4
Number of Distinct Samples	4
Minimum	9.9
Maximum	51
Mean	28.975
Median	27.5
Standard Deviation	21.58554686
Variance	465.9358333
Coefficient of Variation	0.744971419
Skewness	0.088025009
Mean of log data	3.101611324
Standard Deviation of log data	0.876544374

90% Non-parametric UCLs

Standard Bootstrap UCL 40.71607367

95% Non-parametric UCLs

Standard Bootstrap UCL 44.11242055

DESCRIPTION OF DATA SET

Project Name: Highways 50, 80, 89 and 267
Project No.: S9300-06-112
Sample Interval: 1.0 to 2.0 ft

DATA POPULATION #6

Highway 50 Post Mile 58.9

DATA SET STATISTICS

Number of Valid Samples	4
Number of Distinct Samples	4
Minimum	6.3
Maximum	29
Mean	18.075
Median	18.5
Standard Deviation	9.710261
Variance	94.289167
Coefficient of Variation	0.537221
Skewness	-0.216447
Mean of log data	2.751735
Standard Deviation of log data	0.664884

90% Non-parametric UCLs

Standard Bootstrap UCL 23.39505398

95% Non-parametric UCLs

Standard Bootstrap UCL 25.01292461

DESCRIPTION OF DATA SET

Project Name: Highways 50, 80, 89 and 267
Project No.: S9300-06-112
Sample Interval: 2.0 to 3.0 ft

DATA POPULATION #6

Highway 50 Post Mile 58.9

DATA SET STATISTICS

Number of Valid Samples	3
Number of Distinct Samples	3
Minimum	2.5
Maximum	45
Mean	23.16666667
Median	22
Standard Deviation	
Variance	
Coefficient of Variation	
Skewness	
Mean of log data	
Standard Deviation of log data	

90% Non-parametric UCLs

Standard Bootstrap UCL

Too few observations to
calculate UCLs

95% Non-parametric UCLs

Standard Bootstrap UCL

DESCRIPTION OF DATA SET

Project Name: Highways 50, 80, 89 and 267
Project No.: S9300-06-112
Sample Interval: 0.0 to 1.0 ft

DATA POPULATION #8
Highway 50 Post Mile 59.7 EB

DATA SET STATISTICS

Number of Valid Samples	7
Number of Distinct Samples	6
Minimum	7.2
Maximum	85
Mean	27.88571429
Median	15
Standard Deviation	26.67254697
Variance	711.4247619
Coefficient of Variation	0.956495025
Skewness	2.091601547
Mean of log data	3.027891653
Standard Deviation of log data	0.796674327

90% Non-parametric UCLs

Standard Bootstrap UCL 39.62461725

95% Non-parametric UCLs

Standard Bootstrap UCL 43.20628618

DESCRIPTION OF DATA SET

Project Name: Highways 50, 80, 89 and 267
Project No.: S9300-06-112
Sample Interval: 1.0 to 2.0 ft

DATA POPULATION #8 Highway 50 Post Mile 59.7 EB

DATA SET STATISTICS

Number of Valid Samples	6
Number of Distinct Samples	5
Minimum	5.8
Maximum	39
Mean	24.3
Median	22
Standard Deviation	12.982296
Variance	168.540000
Coefficient of Variation	0.534251
Skewness	-0.051712
Mean of log data	3.023111
Standard Deviation of log data	0.704749

90% Non-parametric UCLs

Standard Bootstrap UCL 30.41859151

95% Non-parametric UCLs

Standard Bootstrap UCL 32.19427843

DESCRIPTION OF DATA SET

Project Name: Highways 50, 80, 89 and 267
Project No.: S9300-06-112
Sample Interval: 2.0 to 3.0 ft

DATA POPULATION #8 Highway 50 Post Mile 59.7 EB

DATA SET STATISTICS

Number of Valid Samples	6
Number of Distinct Samples	6
Minimum	5.7
Maximum	54
Mean	30.78333333
Median	28.5
Standard Deviation	19.908834
Variance	396.361667
Coefficient of Variation	0.646741
Skewness	0.126521
Mean of log data	3.178275
Standard Deviation of log data	0.859760

90% Non-parametric UCLs

Standard Bootstrap UCL 40.16989067

95% Non-parametric UCLs

Standard Bootstrap UCL 43.14761916

DESCRIPTION OF DATA SET

Project Name: Highways 50, 80, 89 and 267
Project No.: S9300-06-112
Sample Interval: 0.0 to 1.0 ft

DATA POPULATION #13

Highway 89 Post Mile 13.7

DATA SET STATISTICS

Number of Valid Samples	8
Number of Distinct Samples	8
Minimum	24
Maximum	400
Mean	98.625
Median	53
Standard Deviation	124.4897443
Variance	15497.69643
Coefficient of Variation	1.262253427
Skewness	2.594486891
Mean of log data	4.1692287
Standard Deviation of log data	0.87310313

90% Non-parametric UCLs

Standard Bootstrap UCL	151.909015
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95% Non-parametric UCLs

Standard Bootstrap UCL	165.3801002
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DESCRIPTION OF DATA SET

Project Name: Highways 50, 80, 89 and 267
Project No.: S9300-06-112
Sample Interval: 1.0 to 2.0 ft

DATA POPULATION #13

Highway 89 Post Mile 13.7

DATA SET STATISTICS

Number of Valid Samples	8
Number of Distinct Samples	8
Minimum	6.2
Maximum	16
Mean	8.5375
Median	7.5
Standard Deviation	3.258807
Variance	10.619821
Coefficient of Variation	0.381705
Skewness	2.120160
Mean of log data	2.095150
Standard Deviation of log data	0.315394

90% Non-parametric UCLs

Standard Bootstrap UCL 9.932541558

95% Non-parametric UCLs

Standard Bootstrap UCL 10.31121797

DESCRIPTION OF DATA SET

Project Name: Highways 50, 80, 89 and 267
Project No.: S9300-06-112
Sample Interval: 2.0 to 3.0 ft

DATA POPULATION #13

Highway 89 Post Mile 13.7

DATA SET STATISTICS

Number of Valid Samples	8
Number of Distinct Samples	8
Minimum	2.5
Maximum	8.4
Mean	6.2375
Median	6.35
Standard Deviation	1.930905
Variance	3.728393
Coefficient of Variation	0.309564
Skewness	-0.917077
Mean of log data	1.774014
Standard Deviation of log data	0.390968

90% Non-parametric UCLs

Standard Bootstrap UCL 7.052678081

95% Non-parametric UCLs

Standard Bootstrap UCL 7.282541578

SUMMARY OF STATISTICAL ANALYSIS
HIGHWAYS 50, 80, 89 AND 267
EL DORADO, PLACER AND NEVADA COUNTIES, CALIFORNIA

DATA POPULATION #13 - HIGHWAY 89 PM 13.7

Total Lead UCLs (mg/kg)		
Sample Interval (feet)	90% UCL	95% UCL
0 to 1.0	151.9	165.4
1.0 to 2.0	9.9	10.3
2.0 to 3.0	7.1	7.3

Excavation Scenarios				
Excavation Depth	90% UCL		95% UCL	
	Total Lead (mg/kg)	Soluble (WET) Lead * (mg/l)	Total Lead (mg/kg)	Soluble (WET) Lead * (mg/l)
0.0 to 1.0 foot	151.9	9.8	165.4	10.7
<i>Underlying Soil (1.0 to 3.0 feet)</i>	8.5	0.5	8.8	0.6
0.0 to 2.0 feet	80.9	5.2	87.9	5.7
<i>Underlying Soil (2.0 to 3.0 feet)</i>	7.1	0.5	7.3	0.5
0.0 to 3.0 feet	56.3	3.6	61.0	3.9

Notes:

UCL = Upper Confidence Level

90% UCL applicable for waste classification and onsite reuse

95% UCL applicable for risk assessment and offsite disposal

mg/kg = milligrams per kilogram

mg/l = milligrams per liter

* = Soluble (WET) lead concentrations were predicted using slope of the regression line,

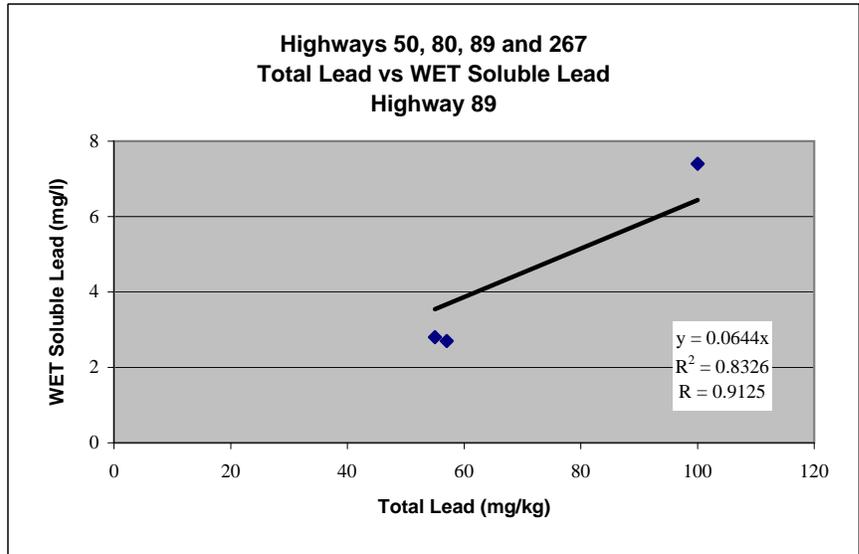
where y = predicted soluble (WET) lead and x = total lead

Regression Line Slope: $y = 0.0644 x$

Highways 50, 80, 89 and 267
S9300-06-112

DATA POPULATION #13 - Highway 89

Sample ID	Total Lead	WET Lead
89P27-0	200	2.0
89P17-0	57	2.7
89P25-0	55	2.8
89P23-0	100	7.4



DESCRIPTION OF DATA SET

Project Name: Highways 50, 80, 89 and 267
Project No.: S9300-06-112
Sample Interval: 0.0 to 1.0 ft

DATA POPULATION #15**Highway 89 Post Mile 19.0****DATA SET STATISTICS**

Number of Valid Samples	7
Number of Distinct Samples	7
Minimum	16
Maximum	200
Mean	67.14285714
Median	53
Standard Deviation	61.30913084
Variance	3758.809524
Coefficient of Variation	0.913114715
Skewness	2.169974244
Mean of log data	3.930083475
Standard Deviation of log data	0.778948796

90% Non-parametric UCLs

Standard Bootstrap UCL 94.11358291

95% Non-parametric UCLs

Standard Bootstrap UCL 102.8264846

DESCRIPTION OF DATA SET

Project Name: Highways 50, 80, 89 and 267
Project No.: S9300-06-112
Sample Interval: 1.0 to 2.0 ft

DATA POPULATION #15

Highway 89 Post Mile 19.0

DATA SET STATISTICS

Number of Valid Samples	7
Number of Distinct Samples	5
Minimum	2.5
Maximum	7.7
Mean	4.714285714
Median	5.2
Standard Deviation	2.254942
Variance	5.084762
Coefficient of Variation	0.478321
Skewness	0.200277
Mean of log data	1.442747
Standard Deviation of log data	0.512139

90% Non-parametric UCLs

Standard Bootstrap UCL	5.719435616
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95% Non-parametric UCLs

Standard Bootstrap UCL	6.0239959
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DESCRIPTION OF DATA SET

Project Name: Highways 50, 80, 89 and 267
Project No.: S9300-06-112
Sample Interval: 2.0 to 3.0 ft

DATA POPULATION #15

Highway 89 Post Mile 19.0

DATA SET STATISTICS

Number of Valid Samples	7
Number of Distinct Samples	5
Minimum	2.5
Maximum	10
Mean	5.685714286
Median	5.5
Standard Deviation	2.662974
Variance	7.091429
Coefficient of Variation	0.468362
Skewness	0.248559
Mean of log data	1.628492
Standard Deviation of log data	0.528792

90% Non-parametric UCLs

Standard Bootstrap UCL 6.887072427

95% Non-parametric UCLs

Standard Bootstrap UCL 7.214839005

SUMMARY OF STATISTICAL ANALYSIS
HIGHWAYS 50, 80, 89 AND 267
EL DORADO, PLACER AND NEVADA COUNTIES, CALIFORNIA

DATA POPULATION #15 - HIGHWAY 89 PM 19.0

Total Lead UCLs (mg/kg)		
Sample Interval (feet)	90% UCL	95% UCL
0 to 1.0	94.1	102.8
1.0 to 2.0	5.7	6.0
2.0 to 3.0	6.9	7.2

Excavation Scenarios				
Excavation Depth	90% UCL		95% UCL	
	Total Lead (mg/kg)	Soluble (WET) Lead * (mg/l)	Total Lead (mg/kg)	Soluble (WET) Lead * (mg/l)
0.0 to 1.0 foot	94.1	6.1	102.8	6.6
<i>Underlying Soil (1.0 to 3.0 feet)</i>	6.3	0.4	6.6	0.4
0.0 to 2.0 feet	49.9	3.2	54.4	3.5
<i>Underlying Soil (2.0 to 3.0 feet)</i>	6.9	0.4	7.2	0.5
0.0 to 3.0 feet	35.6	2.3	38.7	2.5

Notes:

UCL = Upper Confidence Level

90% UCL applicable for waste classification and onsite reuse

95% UCL applicable for risk assessment and offsite disposal

mg/kg = milligrams per kilogram

mg/l = milligrams per liter

* = Soluble (WET) lead concentrations were predicted using slope of the regression line,

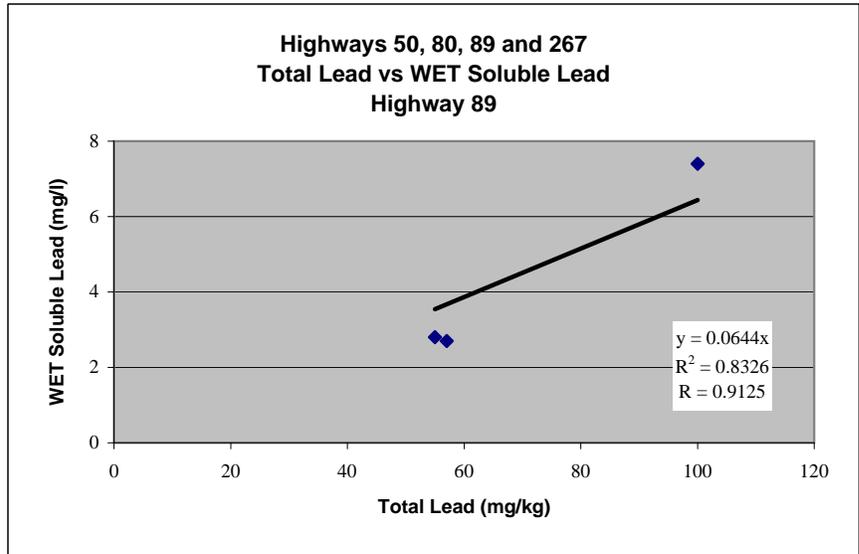
where y = predicted soluble (WET) lead and x = total lead

Regression Line Slope: $y = 0.0644 x$

Highways 50, 80, 89 and 267
S9300-06-112

DATA POPULATION #15 - Highway 89

Sample ID	Total Lead	WET Lead
89P27-0	200	2.0
89P17-0	57	2.7
89P25-0	55	2.8
89P23-0	100	7.4



DESCRIPTION OF DATA SET

Project Name: Highways 50, 80, 89 and 267
Project No.: S9300-06-112
Sample Interval: 0.0 to 1.0 ft

DATA POPULATION #16

Highway 267 Post Mile 0.25

DATA SET STATISTICS

Number of Valid Samples	12
Number of Distinct Samples	10
Minimum	2.5
Maximum	22
Mean	9.65
Median	8.4
Standard Deviation	5.676826899
Variance	32.22636364
Coefficient of Variation	0.588272218
Skewness	0.876927137
Mean of log data	2.086692658
Standard Deviation of log data	0.667856413

90% Non-parametric UCLs

Standard Bootstrap UCL 11.65432205

95% Non-parametric UCLs

Standard Bootstrap UCL 12.33236155

DESCRIPTION OF DATA SET

Project Name: Highways 50, 80, 89 and 267
Project No.: S9300-06-112
Sample Interval: 1.0 to 2.0 ft

DATA POPULATION #16
Highway 267 Post Mile 0.25

DATA SET STATISTICS

Number of Valid Samples	12
Number of Distinct Samples	11
Minimum	2.5
Maximum	50
Mean	20.88333333
Median	15
Standard Deviation	15.142045
Variance	229.281515
Coefficient of Variation	0.725078
Skewness	1.048592
Mean of log data	2.763737
Standard Deviation of log data	0.843032

90% Non-parametric UCLs

Standard Bootstrap UCL 26.30291899

95% Non-parametric UCLs

Standard Bootstrap UCL 27.76245027

DESCRIPTION OF DATA SET

Project Name: Highways 50, 80, 89 and 267
Project No.: S9300-06-112
Sample Interval: 2.0 to 3.0 ft

DATA POPULATION #16
Highway 267 Post Mile 0.25

DATA SET STATISTICS

Number of Valid Samples	11
Number of Distinct Samples	11
Minimum	2.5
Maximum	78
Mean	18.99090909
Median	8.2
Standard Deviation	22.170045
Variance	491.510909
Coefficient of Variation	1.167403
Skewness	2.218051
Mean of log data	2.468420
Standard Deviation of log data	0.989145

90% Non-parametric UCLs

Standard Bootstrap UCL 27.12253252

95% Non-parametric UCLs

Standard Bootstrap UCL 29.44024104



DEPARTMENT OF INDUSTRIAL RELATIONS
DIVISION OF OCCUPATIONAL SAFETY AND HEALTH
MINING AND TUNNELING UNIT
2211 Park Towne Circle, Suite 2
Sacramento, California 95825

Telephone (916) 574-2540
FAX (916) 574-2542

September 3, 2010

Department of Transportation
PO Box 911
Marysville, CA 95901

Attention: Davinder Minhas (via e-mail)
Subject: Underground Classification #: C028-061-11T
Route 267 Transportation Operation Systems

Ms. Minhas:

The information provided to this office relative to the above project has been reviewed. On the basis of this analysis, Underground Classification of "Potentially Gassy with Special Conditions" has been assigned to the shaft identified on your submittal. Please retain the original Classification for your records and deliver a true and correct copy of the Classification to the shaft contractor(s) for posting at the job site.

When the contractor who will be performing the work is selected, please advise them to notify this office to determine if a mandated Prejob Conference with the Division is required prior to commencing any activity associated with drilling of the shafts.

Should you have another bore under construction that is not required to have an Underground Classification (i.e.: less than 30 inches in diameter), please contact the Mining and Tunneling Unit prior to any employee entry of such a space.

If you have any questions on this subject, please contact this office at your earliest convenience.

Sincerely,

A handwritten signature in black ink that reads "John R. Leahy".

John R. Leahy
Senior Engineer

cc: Doug Patterson
File



State of California

Department of Industrial Relations

DIVISION OF OCCUPATIONAL SAFETY AND HEALTH
MINING AND TUNNELING UNIT

Underground Classification

C028-061-11T

DEPARTMENT OF TRANSPORTATION

(NAME OF TUNNEL OR MINE AND COMPANY NAME)

of PO Box 911, Marysville, CA 95901
(MAILING ADDRESS)

at ROUTE 267 TRANSPORTATION OPERATION SYSTEMS
(LOCATION)

has been classified as *** POTENTIALLY GASSY with Special Conditions***
(CLASSIFICATION)

as required by the California Labor Code Section 7955.

The Division shall be notified if sufficient quantities of flammable gas or vapors have been encountered underground. Classifications are based on the California Labor Code Part 9, Tunnel Safety Orders and Mine Safety Orders.

SPECIAL CONDITIONS

1. A Certified Gas Tester shall perform pre-entry and continuous monitoring of the underground environment to measure Oxygen and detect explosive, flammable, and toxic gasses whenever an employee is working in the underground environment.
2. Mechanical ventilation shall provide for continuous exhaust of fumes and air at any time an employee is working in the underground environment. The primary ventilation fans must be located outside of the underground environment and shall be reversible by a single switch near the fan location.
3. The Division shall be notified immediately if any **Flammable Gas** or **Petroleum Vapor** exceeds 5% of the Lower Explosive Limit.
4. All utilities that may be in conflict with the project shall be identified and physically located (potholed) prior to the start of project operations.

GAS MAIN NEAR SHAFT

The 60-inch diameter by 22 feet deep drilled shaft located on the south side of Route 267, approximately 0.1 miles south of the intersection of Route 267 and Truckee Airport Road, Truckee, Placer County.

This classification shall be conspicuously posted at the place of employment.

Date September 3, 2010

John R. Leahy
(SENIOR ENGINEER)
John R. Leahy



Memorandum

*Flex your power!
Be energy efficient!*

To: MR. CYRUS HUI
BRANCH CHIEF
DESIGN BRANCH S-7

Date: August 13, 2008

Attn: MR. ROSS FOON

File: 03-VAR-VAR
03-1C112
ITS Poles

From: DEPARTMENT OF TRANSPORTATION
DIVISION OF ENGINEERING SERVICES
GEOTECHNICAL SERVICES – MS 5

Subject: Foundation Recommendations for the Tahoe Area Intelligent Transportation System.

1. Introduction

Per your request, we are providing foundation recommendations from our initial site visit on July 1, 2008, for the Tahoe Area Intelligent Transport System project. The project includes various locations along ED 50, PLA 89, and PLA 267 (Table 1). A vicinity map of the project area is attached (plate 1).

2. Proposed Improvements

This project proposes to install a comprehensive Intelligent Transportation System (ITS) along ED 50, PLA 89, PLA 267, and NEV 80 (non-Tahoe Basin). 23 Transportation Operation System (TOS) elements will be installed at 12 different locations. These TOS elements include Closed Circuit Television Cameras (CCTV), Changeable Message Signs (CMS), Extinguishable Message Signs (EMS), Electronic Tag Reader (ETR), Highway Advisory Radio (HAR), Yagi Antennas and Traffic Monitoring Station (TMS).

3. Site Investigation, Observations and Recommendations

Location 2. (ETR) ED-50 (PM 39.7).

The proposed ETR at this location is off the eastbound shoulder of highway 50. The surface soil observed in the surrounding area is comprised of fine to coarse sand and gravel. 10 foot diameter boulders were seen at the site (plate 2). Since the site is located in a cut slope, there is a possibility of hitting boulders or bedrock during the foundation excavation (plate 2). As indicated in Caltrans 2006 Standard Plan ES-7I, ETR will be

founded upon a 2'-6" diameter, 7'-3" deep cast-in-drilled-hole (CDIH) pile foundation, at this depth it is unlikely to encounter ground water.

Location 3. EMS, ETR ED-50 (PM 47.3).

The proposed EMS at this location is off the eastbound shoulder of the highway 50. The surface soil observed at this location is comprised of fine sand, silt, and gravel. Since the embankment appears to be built with boulders excavated from the cut slope, it is likely that boulders will be encountered at this location (plate 2). As indicated in Caltrans 2006 Standard Plan S 49, the EMS sign will be founded upon a 2'-6" diameter, 11'-0" deep CIDH pile foundation. Since the river bed is about 25' down from the road, it is unlikely that ground water will be encountered at this location.

Location 3. EMS at ED-50 (PM 50.8).

The proposed EMS at this location is just off the westbound shoulder of highway 50. The surface soil observed at this location is comprised of fine sand, silt, and gravel (plate 3). The pile foundation will be installed in engineered fill. As indicated in the Caltrans 2006 Standard Plan S 49, the EMS sign will be founded upon a 2'-6" diameter, 11'-0" deep CIDH pile foundation. It is unlikely that boulders, bedrock or ground water will be encountered at this location.

Location 4. ETR ED-50 (PM 53.2).

The proposed ETR at this location is on cut slope off the westbound shoulder of highway 50. The surface soil observed at this location is comprised of fine sand, silt, gravel, and boulders. As indicated in Caltrans 2006 Standard Plan ES-7I, the ETR pole will be founded upon a 2'-6" diameter, 7'-3" deep CIDH pile foundation. Note that 10 foot diameter boulders were seen at the site, which might be encountered during the foundation excavation at this location. It is unlikely that ground water will be encountered at this location.

Location 5. CCTV ED-50 (PM 59.7).

The proposed CCTV pole location is off the eastbound shoulder of highway 50. The surface soil observed at this location is comprised of fine sand, silt and boulders. The pole foundation will be installed in engineered fill. As indicated in the Caltrans 2006 Standard Plan ES-16A, the CCTV pole will be founded upon a 3'-6" diameter, 7'-0" deep CIDH pile foundation. It is unlikely that boulders or bedrock will be encountered at this location. Note that dense green vegetation was observed at the site during our initial site

visit (plate 4), indicating that there is a possibility of encountering ground water at this location but not in quantities that will effect the foundation excavation.

Location 6. CCTV ED-50 (PM 63.7)

The proposed CCTV pole location is off the eastbound shoulder of the highway 50. The pole foundation will be installed in engineered fill. The pole foundation will be installed in engineered fill. As indicated in the Caltrans 2006 Standard Plan ES-16A, the CCTV pole will be founded upon a 3'-6" diameter, 7'-0" deep CIDH pile foundation. The surface soil observed at the site is comprised of fine to coarse sand and silt (plate 4). It is unlikely that boulders, bedrock or ground water will be encountered at this location.

Location 7. CCTV PLA-89 (PM 12.4).

The proposed CCTV pole location is on cut slope off the northbound shoulder of highway 89. The surface soil observed at this location is comprised of fine to coarse sand, silt and boulders. The boulders, up to 4 feet in diameter, were observed in the surrounding area (plate 4) and might be encountered during the foundation excavation. As indicated in the Caltrans 2006 Standard Plan ES-16A, the CCTV pole will be founded upon a 3'-6" diameter, 7'-0" deep CIDH pile foundation. A high water table is expected at the site because of the proximity of the river. An underground sewer line and electric power lines were noted during our filed investigation at the proposed CCTV pole location (plate 4).

Location 7. EMS PLA-89 (PM 12.4)

The proposed EMS location is on cut slope off the northbound shoulder of highway 89. The surface soil observed at this location is comprised of fine to coarse sand, silt and boulders. The boulders, up to 4 feet in diameter, were observed in the surrounding area and might be encountered during the foundation excavation. As indicated in the Caltrans 2006 Standard Plan S 49, the EMS pole will be founded upon a 2'-6" diameter, 11'-0" deep CIDH pile foundation. A high water table is expected **at the site** because of the proximity of the river.

Location 8. EMS PLA-89 (PM 15.6).

The proposed EMS location is off the southbound shoulder of highway 89. The surface soil observed on this location is comprised of fine sand, and silt. 4 feet boulders were seen in the surrounding area and might be encountered during foundation excavation at this location. The pole foundation will be installed in engineered fill. As indicated in the Caltrans 2006 Standard Plan S 49, the EMS pole will be founded upon a 2'-6" diameter,

11'-0" deep CIDH pile foundation, at this depth it is likely that ground water will be encountered.

Location 11. New CMS at PLA-267 (PM 0.25).

The proposed CMS will be a single post type Model 510 located off the eastbound shoulder of highway 267. As indicated in Caltrans 2006 Standard Plan S 135, the CMS will be founded upon a 4 foot diameter, 18 foot long CIDH pile foundation. Surface soil observed at this location is comprised of silt, fine sand and gravels. The proposed CMS will be placed in a cut slope 2:1(H:V). It is unlikely that boulders, bedrock or groundwater will be encountered at this location. This office recommends a subsurface investigation be performed even if the CMS location is shifted North or South to avoid the cut slope.

Table 1. Summary Table.

Location	PM	TOS		CIDH		Estimated chance of encountering (%)			
				L	D	Boulders	Bedrock	Ground Water	Caving
2	39.7	ETR	(EB)	7'-3"	2'-6"	50	50	20	20
3	47.3	EMS	(EB)	11'-0"	2'-6"	60	20	20	20
	48.7	HAR	(WB)	7'-0"	2'-6"	20	20	20	20
	50.8	EMS	(WB)	11'-0"	2'-6"	50	20	20	20
4	53.2	ETR	(WB)	7'-3"	2'-6"	50	50	20	20
5	5	CCTV	(EB)	7'-0"	3'-6"	60	20	60	20
6	6	CCTV	(EB)	7'-0"	3'-6"	10	20	20	20
7	7	EMS	(NB)	11'-0"	2'-6"	50	20	50	20
7	7	CCTV	(NB)	7'-0"	3'-6"	40	20	50	20
8	8	EMS	(SB)	11'-0"	2'-6"	40	20	40	20
11	11	CMS	(EB)	18'-0"	4'-0"	20	20	20	20

*Since borings were not drilled the chance of encountering boulders, bedrock, groundwater and caving could not be determined and is only estimated.

Construction Considerations

Based on the subsurface investigations in the project vicinity, ground water may be encountered at some locations during the CIDH pile construction. If CIDH pile installation requires either casing to prevent groundwater intrusion into the excavation or placement of concrete by slurry displacement, gamma-gamma acceptance testing will be required.

Table 2. Locations of the Traffic Operation Elements (TOE).

Location	Co	Rte	PM	Location Description	TOS
2	ED	50	39.7	Ice House Road	ETR
3	ED	50	47.3	Kybruz Maintenance Station	EMS , ETR
			48.7		HAR
			50.8		EMS
4	ED	50	53.2	Wrights Lake Road	ETR
5	ED	50	59.7	Twin Bridges	CCTV
6	ED	50	63.7	Sierra At Tahoe Road	CCTV
7	PLA	89	12.4	Alpine Meadow Road	CCTV, EMS
8	PLA	89	15.6	Squaw Valley Road	EMS
11	PLA	267	0.25	Airport Road	CMS

LEGEND

CCTV=Closed Circuit Television Camera TMS=Traffic Monitoring Station
 CMS=Changeable Message Sign WB=Westbound
 EMS=Extinguishable Message Sign NB=Northbound
 ETR=Electronic Tag Reader SB=Southbound
 HAR=Highway Advisory Radio EB=Eastbound

Physical Setting

The physical setting of the project site and the surrounding area was reviewed to provide climate, geology, and seismicity characteristics to aid in the project design and construction. The following is a discussion of our review:

Climate

- Locations 2 through 6

According to the Western U.S. Climate Historical Summaries for 1948-2005, the average annual precipitation in the Tahoe area is about 4.16 inches. The average annual air temperature is approximately 42.3 (°F) with average monthly extremes of 21 (°F) in January and 71.9 (°F) in August. Heavy rain and snow fall occurs in the area typically between the months of November to March. Highest average snowfall is in March (83.2 inches).

- Locations 7, 8 and 11

According to the Western U.S. Climate Historical Summaries for 1948-2005, the average annual precipitation in the Tahoe area is about 2.6 inches. The average annual air temperature is approximately 43.1 (°F) with average monthly extremes of 18.4 (°F) in January and 78.2 (°F) in July. Heavy rain occurs in the area typically between the months of November to March. Snow fall occurs typically between months of November to April. Highest average snowfall is in January (46.5 inches).

Geology

Based upon review of the California Geological Survey published map “Geological map of the Lake Tahoe basin” the geologic map units at the project site are shown in Table 3.

Table 3. Geology

Locations	Materials
2 through 6	Mesozoic granite rocks.
7 and 8	Glacial deposits.
11	Miocene-Pliocene volcanic rocks.

Seismicity

Table 4. Seismicity

Location	Fault Line	Distance (mi)	Type	Maximum Credible Earthquake	PBA
2	Melones	19	Normal	6.5	0.2g
3	Genoa	25	Normal	7.25	0.2g
4	Genoa	19	Normal	7.25	0.2g
5	Genoa	18	Normal	7.25	0.2g
6	Genoa	14	Normal	7.25	0.3 g
7	Lake Tahoe	6	Normal	6.5	0.4 g
8	Stampede Valley	5	Strike-Slip	6.5	0.4 g
11	Stampede Valley	0.2	Strike-Slip	6.5	0.6 g

MR. CYRUS HUI
August 13, 2008
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If you have any questions or comments, please call Hamid Akbar Zadeگان at (916) 227-1078 or Douglas Brittsan at (916) 227-1079.



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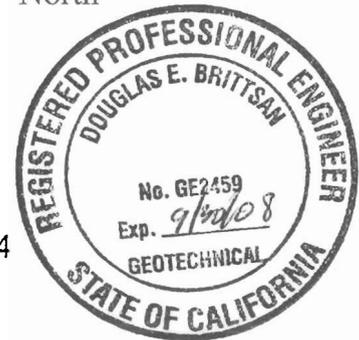


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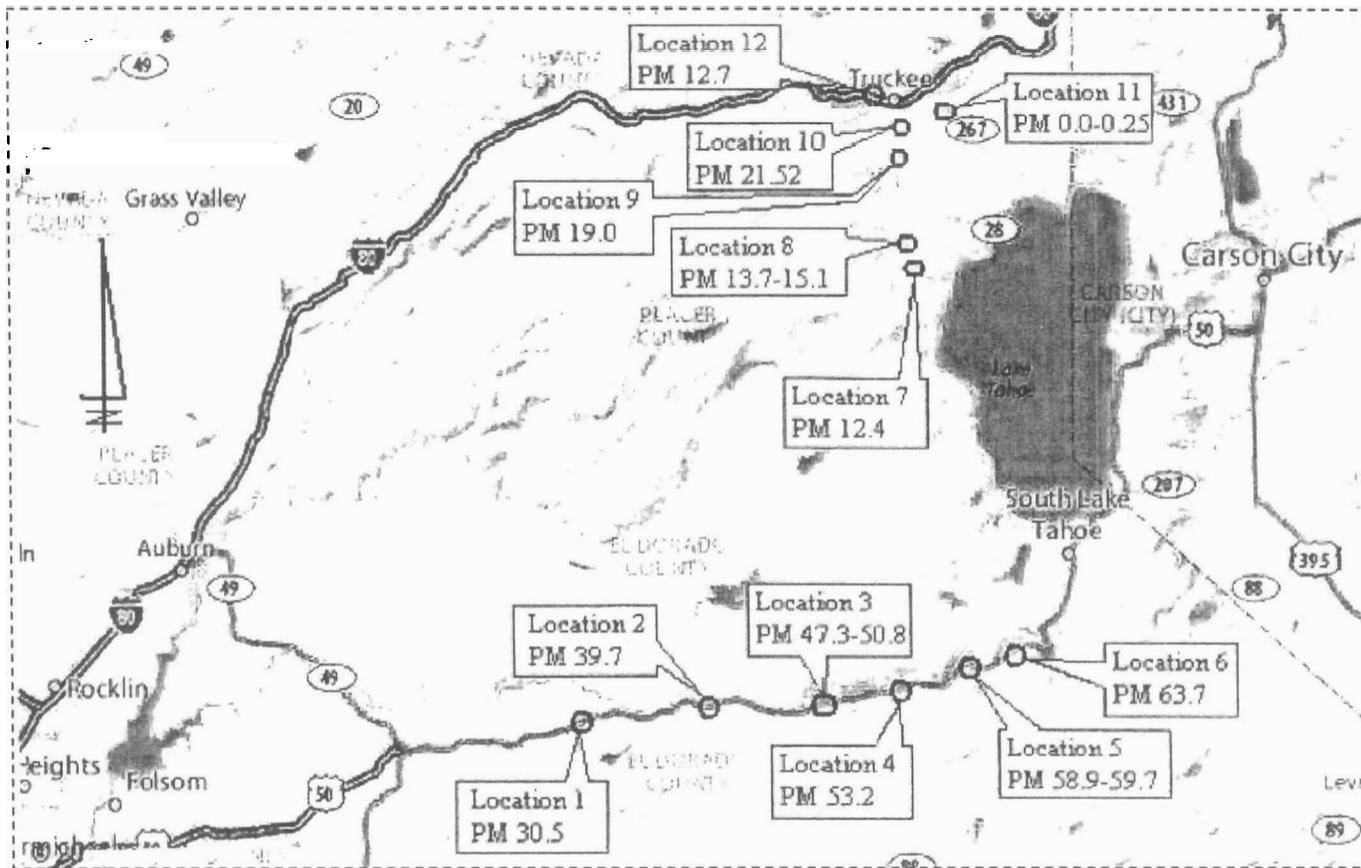
Attachments:

- Plate No. 1. Location Map
- Plate No. 2. ED 50-PM 39.7, ED 50-PM 47.3
- Plate No. 3. ED 50-PM 50.8, ED 50-PM 53.2
- Plate No. 4. ED50-PM 59.7, ED50-PM 63.7, PLA 89-PM 12.4
- Plate No. 5. PLA 89-PM 15.6, PLA 267-PM 0.25

c: R.E. Pending
Structure OE (E-copy)
PCE (E-copy)
DME (E-copy)
GDN File
GS File Room



TAHOE AREA INTELLIGENT TRANSPORTATION SYSTEM NON-TAHOE BASIN



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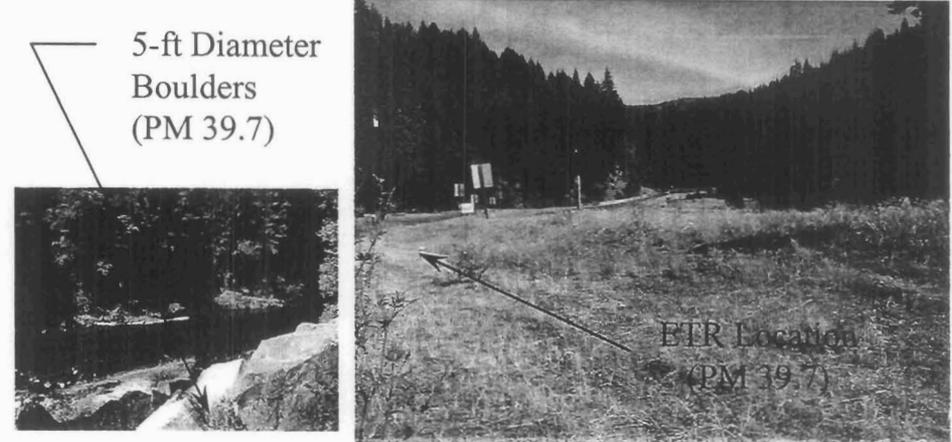
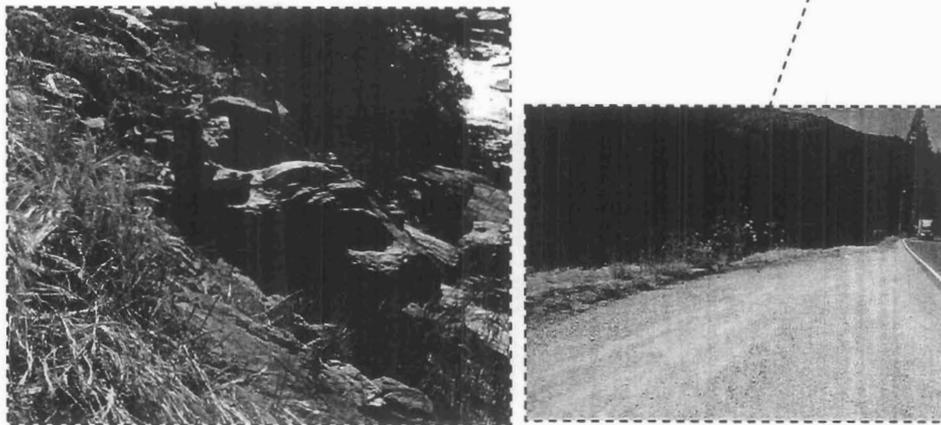
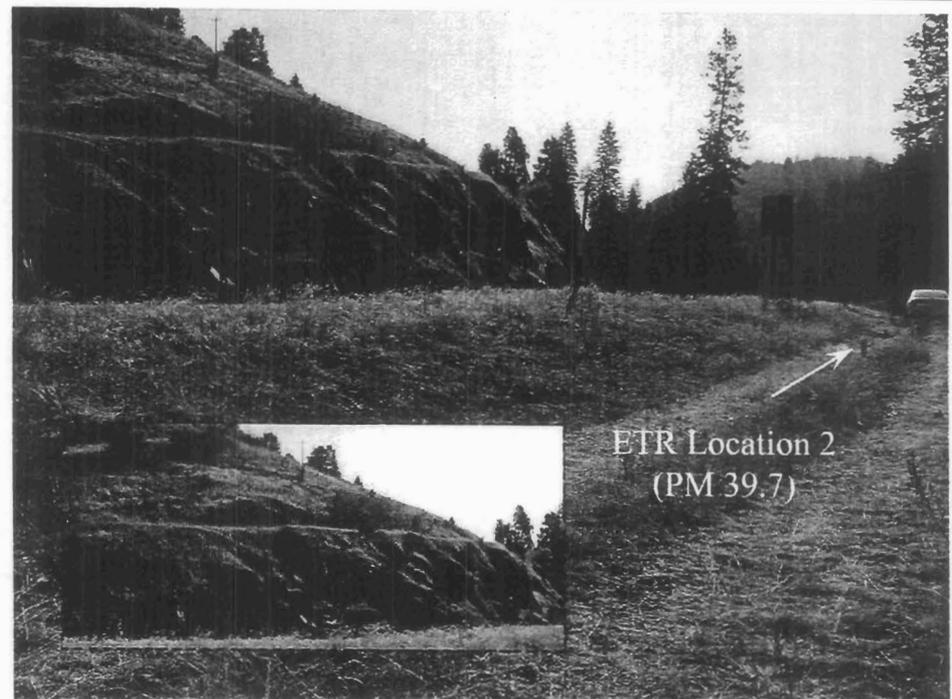
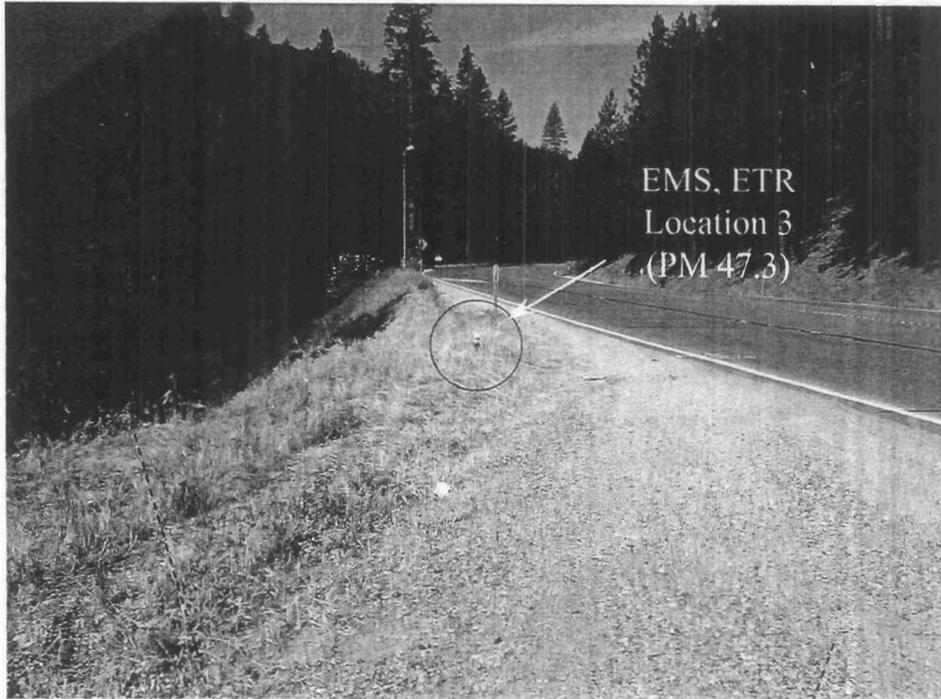
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LOCATION MAP

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**Plate
No. 1**



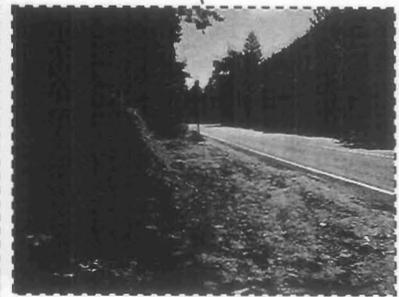
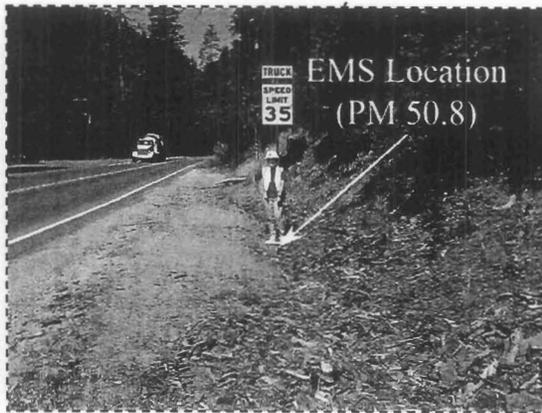
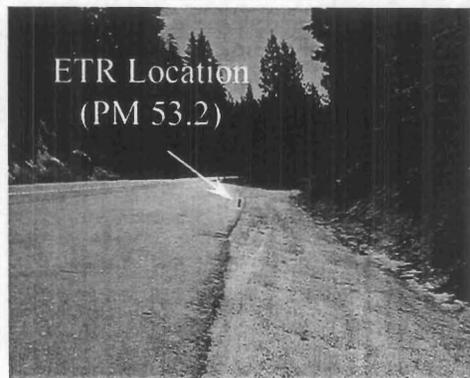
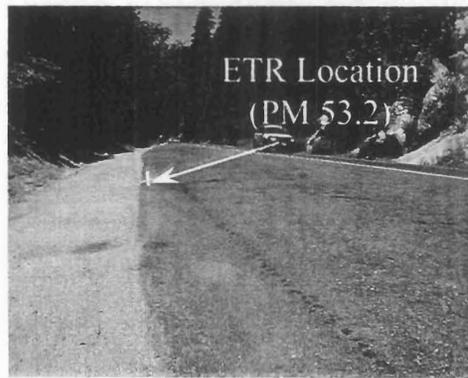
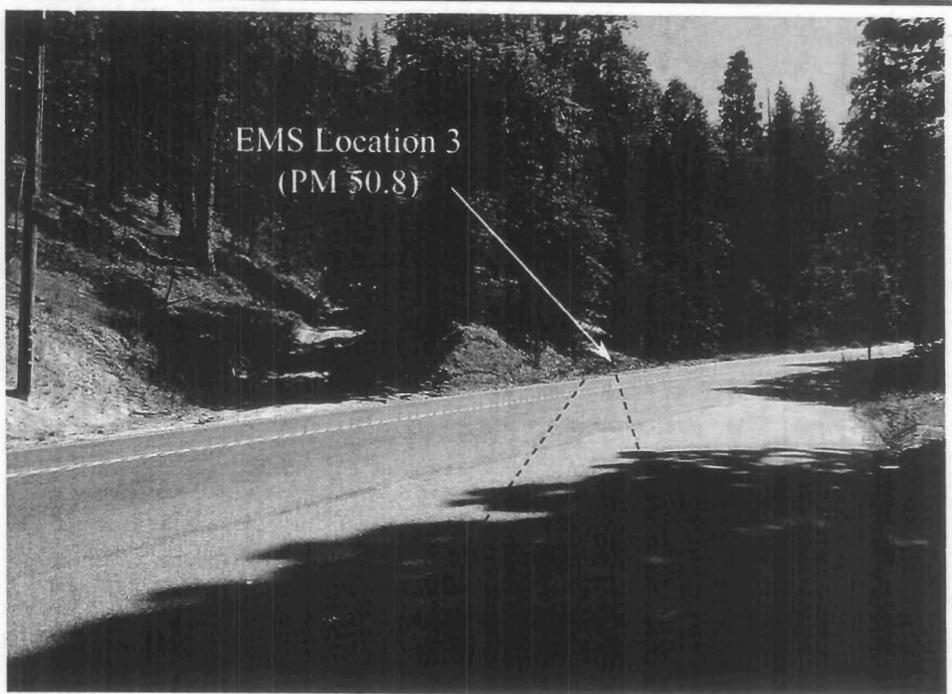
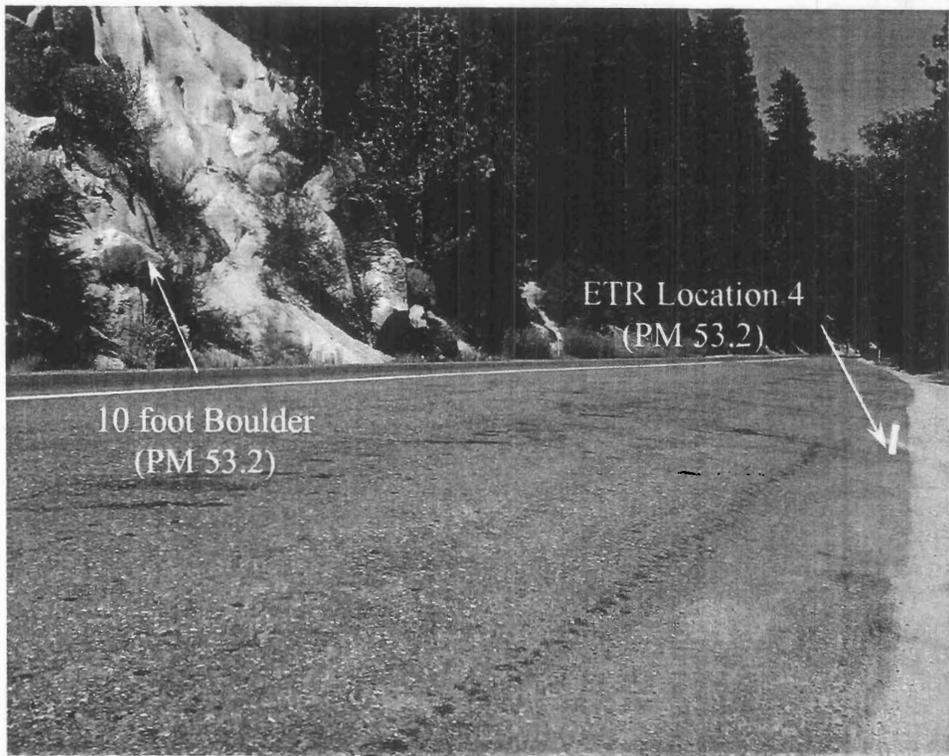
5-ft Diameter
Boulders
(PM 39.7)

ETR Location
(PM 39.7)



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Location 2 (ED 50-PM 39.7), 3 (ED 50-PM 47.3) Geotechnical Design Report		Plate No. 2



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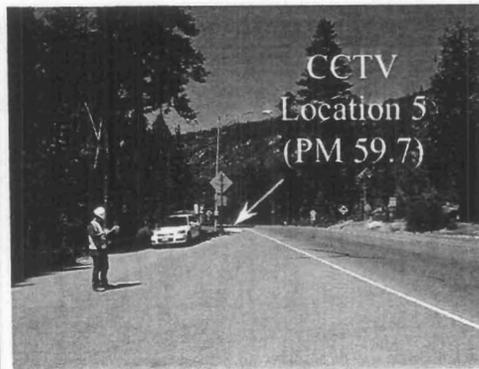
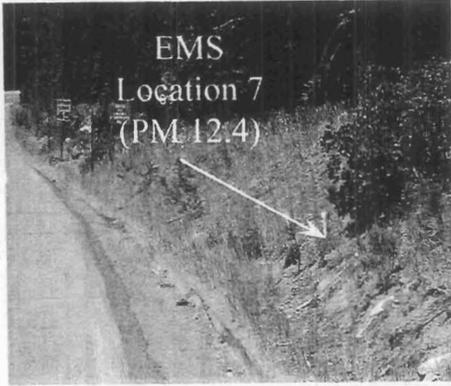
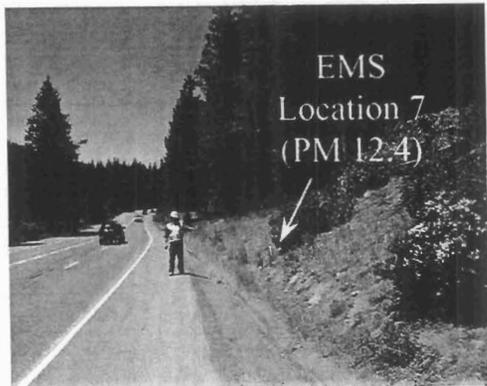
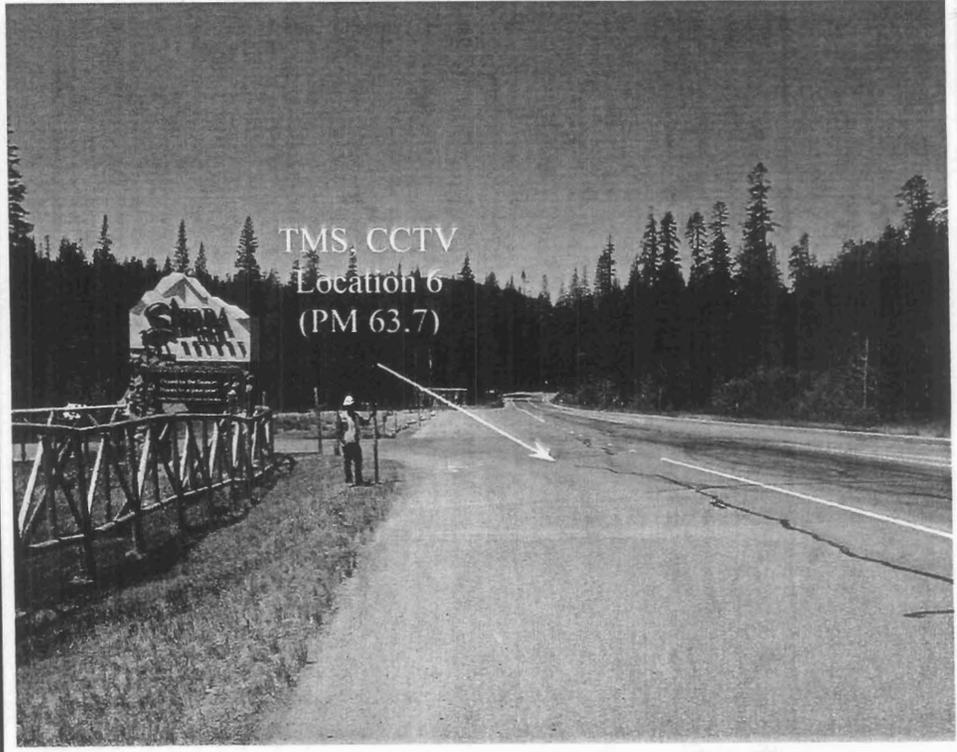
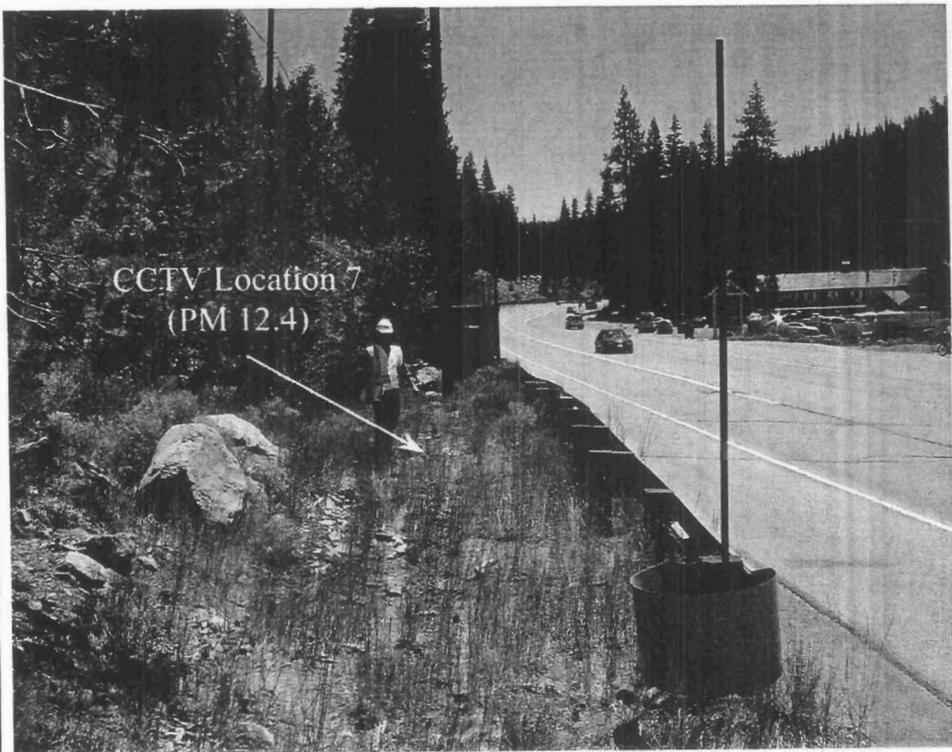
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Location 3 (ED 50-PM 50.8), 4 (ED 50-PM 53.2)
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Plate
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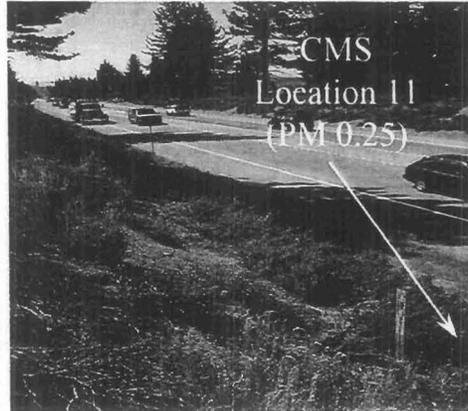
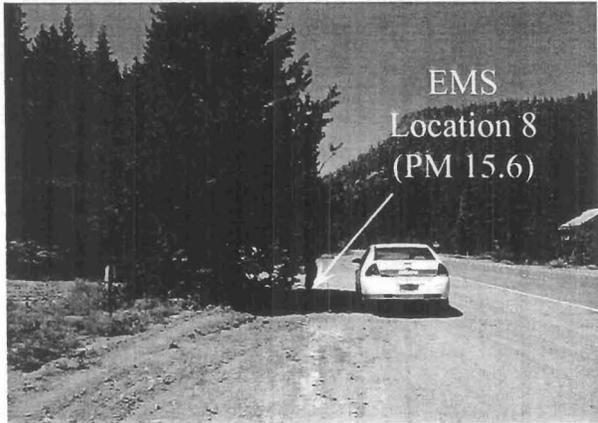
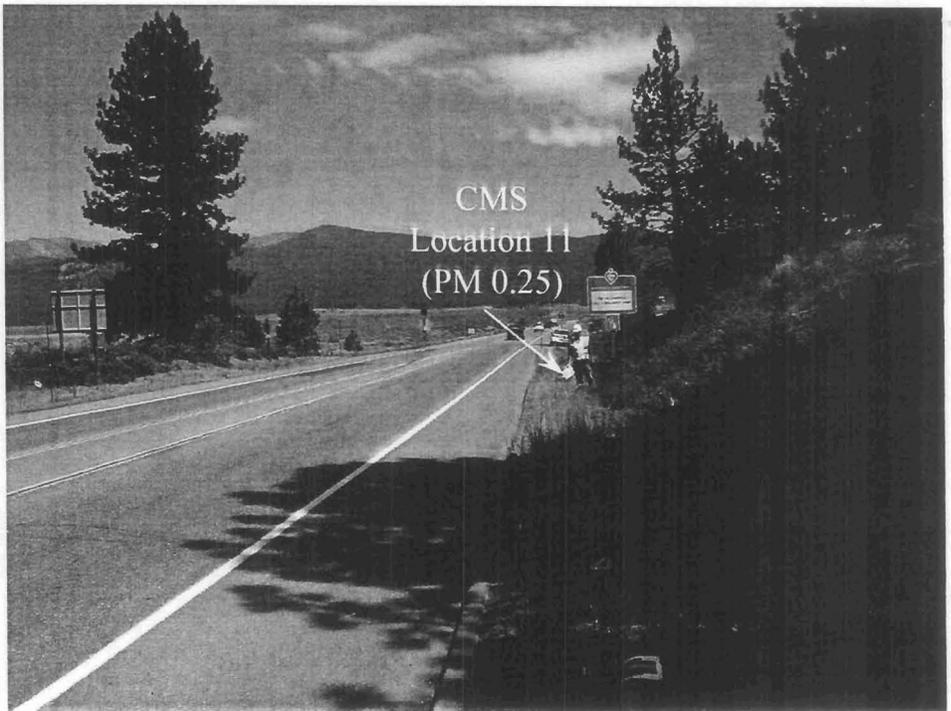
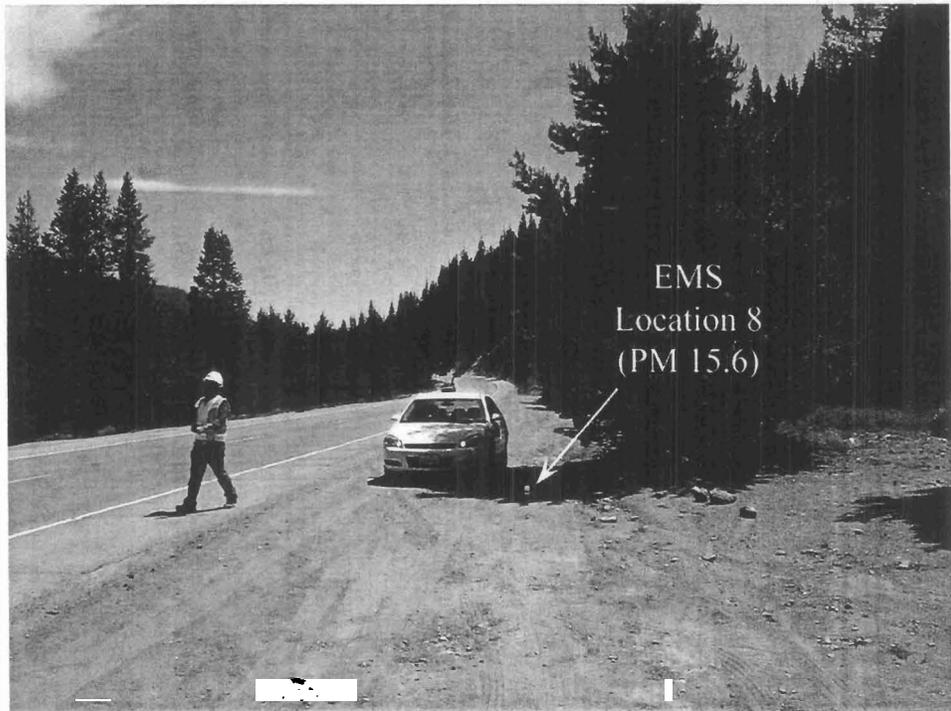
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Location 5 (ED50-PM 59.7), 6 (ED50-PM 63.7), 7 (PLA 89-PM 12.4)

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Location 8 (PLA 89-PM 15.6), 11 (PLA 267-PM 0.25)
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**Plate
 No. 5**