AERIALLY DEPOSITED LEAD AND NATURALLY OCCURRING ASBESTOS SITE INVESTIGATION REPORT

State Route 70
Post Miles 8.9 to 9.2 and 17.1 to 17.5
Plumas County, California

PREPARED FOR:

CALIFORNIA DEPARTMENT OF TRANSPORTATION – DISTRICT 3
ENVIRONMENTAL ENGINEERING OFFICE
703 B STREET, P.O. BOX 911
MARYSVILLE, CALIFORNIA 95901

Caltrans

PREPARED BY:

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

GEOCON

GEOCON PROJECT NO. S9300-06-108
TASK ORDER NO. 1087, EA NO. 02-2E0000

JANUARY 2010

GEOCON
CONSULTANTS, INC.
GEOTECHNICAL ■ ENVIRONMENTAL ■ MATERIALS

Project No. S9300-06-108
January 15, 2010

Ms. Alicia Beyer
California Department of Transportation – District 3
Environmental Engineering Office
P.O. Box 911
Marysville, California 95901

Subject: STATE ROUTE 70, POST MILES 8.9 TO 9.2 AND 17.1 TO 17.5
PLUMAS COUNTY, CALIFORNIA
CONTRACT NO. 03A1368, TASK ORDER NO. 108, EA 02-2E0000
AERIALLY DEPOSITED LEAD AND NATURALLY OCCURRING ASBESTOS SITE INVESTIGATION REPORT

Dear Ms. Beyer:

In accordance with California Department of Transportation (Caltrans) Contract No. 03A1368, Task Order No. 108, and Expense Authorization 02-2E0000, we have performed environmental engineering services at the project site. The site consists of Caltrans right-of-way along State Route 70 from Post Miles 8.9 to 9.2 and 17.1 to 17.5 in Plumas County, California. The accompanying report summarizes the services performed including the excavation of 27 direct-push borings and one hand-auger boring for the collection of soil samples for aerially deposited lead and naturally occurring asbestos (NOA) analysis, the collection of surface soil and rock samples for NOA analyses, and the collection of yellow paint stripe samples for lead analysis.

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

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

Sincerely,

GEOCON CONSULTANTS, INC.

Rebecca L. Silva, REA
Project Manager

John E. Juhrend, PE, CEG
Principal

REGISTERED PROFESSIONAL ENGINEER
JOHN JUHREND
No. 46681
Exp. 06/30/11
CIVIL
STATE OF CALIFORNIA

RLS:JEJ:krh

(5 + 3CD) Addressee

TABLE OF CONTENTS

AERIALLY DEPOSITED LEAD AND NATURALLY OCCURRING ASBESTOS SITE INVESTIGATION REPORT

TABLE OF CONTENTS (continued)

AERIALLY DEPOSITED LEAD AND NATURALLY OCCURRING ASBESTOS SITE INVESTIGATION REPORT

1.0 INTRODUCTION

This Aerially Deposited Lead (ADL) and Naturally Occurring Asbestos (NOA) Site Investigation Report was prepared under California Department of Transportation (Caltrans) Contract No. 03A1368, Task Order (TO) No. 108, and Expense Authorization (EA) 02-2E0000.

1.1 Project Description and Proposed Improvements

The project area consists of the Caltrans right-of-way from Post Mile (PM) 8.9 to 9.2 and PM 17.1 to 17.5 (the Site) in Plumas County, California. The approximate project location is depicted on the attached Vicinity Map, Figure 1. The Site and major roadway features are depicted on the Site Plans, Figures 2-1 and 2-2. Caltrans proposes to re-align the roadway and construct 8-foot-wide shoulders on SR-70. The project area also included a disposal area on the south side of SR-70 between PM 8.9 and 9.2 and a stockpiled soil area on the north side of SR-70 between PM 17.1 and 17.5.

1.2 General Objectives

Construction of planned roadway improvements along SR-70 will require the disturbance of soil and existing pavement at the Site. The purpose of the scope of services outlined in TO No. 108 was to evaluate the Site for potential impacts due to aerially deposited lead (ADL) from motor vehicle exhaust in the surface and near surface soils, to evaluate the Site for the presence of naturally occurring asbestos (NOA) and to evaluate the yellow paint stripe for lead content. The investigative results will be used by Caltrans to inform the construction contractor if ADL- or NOA-impacted soils are present within the project boundaries for construction worker health and safety and disposal purposes.

2.0 BACKGROUND

The Site is comprised of two-lane SR-70 between PM 8.9 and 9.2 and 17.1 and 17.5. Caltrans requested this site investigation to provide data regarding the presence of ADL and NOA within the proposed roadway improvement areas.

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

2.1 Potential Lead Soil Impacts

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

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.

2.2 Potential Lead-based Traffic Stripe Paint Impacts

Yellow traffic stripe paint utilized by Caltrans may contain lead. The potential presence of elevated lead requires sampling and analytical testing of the paint stripe materials to determine appropriate health and safety procedures and proper management and disposal practices. Disposal of removed traffic stripe paint materials is dependent on the method utilized to remove these materials (i.e. focused stripe removal vs. pavement grinding).

2.3 Naturally Occurring Asbestos

The California Air Resources Board (CARB) has mitigation practices for construction, grading, quarrying, and surface mining operations that may disturb natural occurrences of asbestos outlined in the Airborne Toxic Control Measure (ATCM) in Title 17 California Code of Regulations (CCR), Section 93105 (ATCM 93105). NOA potentially poses a health hazard when it becomes an airborne particulate. Maintenance and construction activities within the roadway corridor could disturb NOA-containing rock and soil where present, thereby potentially creating an airborne asbestos hazard. Mitigation practices can reduce the risk of exposure to asbestos-containing dust. The primary mitigation practice used for controlling exposure to potentially asbestos-containing dust is the implementation of engineering controls; primarily wetting the materials being disturbed. If engineering controls do not adequately control exposure to potentially asbestos-containing dust, the use of personal protective equipment including wearing approved high efficiency particulate air filter-equipped respirators is required during construction activities. Asbestos dust control methods similar to those in ATCM 93105 are outlined in Title 17 CCR, Section 93106 (ATCM 93106) governing the control of airborne asbestos resulting from the use of NOA-containing material for road surfacing applications. Using surfacing material with 0.25% or more asbestos material is not permitted, and wetting of the material or the application of a surface sealant is recommended to minimize disturbance of the asbestos material. Onsite reuse or disposal of NOA-containing materials is allowed by ATCMs 93106 and 93105 if it is covered with at least 0.25 foot of material that contains less than 0.25% asbestos.

3.0 SCOPE OF SERVICES

The scope of services requested by Caltrans in TO No. 108 included the collection of soil and rock samples for analysis to determine lead and asbestos content, the collection of three paint-chip samples to determine lead content, the performance of a geologic assessment of the Site to help determine whether potentially asbestos-bearing soil or rocks are present, and the preparation of this report.

3.1 Pre-field Activities

- Conducted a TO meeting on November 30, 2009, to discuss the TO scope of services. Caltrans Quality Assurance (QA) Manager Alicia Beyer and Geocon field manager Mike O'Brien attended the meeting. The purpose of the TO meeting was to identify and observe the project boundaries

and conditions and mark the project limits and proposed boring locations with white paint for Underground Service Alert (USA) notification.

- Prepared a *Health and Safety Plan* (HSP) dated December 2009, to provide guidelines on the use of personal protective equipment and the health and safety procedures implemented during the field activities.
- Reviewed existing geological maps of the Site and surrounding areas for information on the potential presence of geologic formations that may contain NOA.
- Provided 48-hour notification to USA prior to job site mobilization.
- Retained the services of Advanced Technologies Laboratories (ATL), a Caltrans-approved and California-certified analytical laboratory, to perform lead analyses of samples.
- Retained the services of EMSL Analytical Inc. (EMSL), a Caltrans-approved analytical laboratory, to perform asbestos analyses of samples.

3.2 Field Activities

A preliminary site reconnaissance was performed on November 30, 2009, by Mike O'Brien, at which time he collected various rock samples from slopes, stockpiles, and highway shoulders at the Site. The rock samples were later observed and evaluated at the Geocon office by Ian Stevenson and Mark Repking, California Professional Geologists (PG Nos. 8203 and 8569, respectively) with experience in the assessment of NOA.

The ADL and NOA survey was performed on December 4, 2009. Between PM 8.9 and 9.2, sixteen direct-push borings were advanced for the collection of ADL and/or NOA samples. One paint chip sample was also collected from the centerline yellow stripe. Between PM 17.1 and 17.5, twelve direct-push borings were advanced for the collection of ADL and/or NOA samples. Six NOA samples were collected from surface soils and two paint chip samples were collected from the centerline yellow stripe.

The ADL and NOA sample locations were selected in the field by the Geocon field supervisor. The locations of the samples were determined using a global positioning system (GPS) capable of providing a horizontal position with a minimum error of 3.3 feet. The approximate sample locations are depicted on Figures 2-1 and 2-2. Details of the field activities are presented in the following sections.

4.0 INVESTIGATIVE METHODS

4.1 ADL Investigation

PM 8.9 to 9.2

Ten direct-push borings (EB1 through EB5 and WB6 through WB10) were advanced to a depth up to 3 feet along the eastbound and westbound shoulder of SR-70 between PM 8.9 and 9.2 for the collection of 28 soil samples. Soil samples were collected at general depths of 0 to 1 foot, 1 to 2 feet and 2 to 3 feet. Refusal was encountered at approximately 2 feet in borings EB4 and WB8. Samples for asbestos analysis were collected from ADL borings WB7 through WB9. Sample locations are depicted on Figure 2-1. Soil samples obtained from the direct-push borings were collected in clear polyvinyl chloride (PVC) liners driven by the direct-push rig. After we collected a soil sample, the PVC was cut to separate the sample by depth, and each sample was transferred to individual Ziploc® re-sealable plastic bags. The soil samples were field homogenized and transported to the laboratory under chain-of-custody (COC) protocol.

PM 17.1 to 17.5

Eleven direct-push borings and one hand-auger boring were advanced to a depth of up to 3 feet along the eastbound and westbound shoulder of SR-70 between PM 17.1 and 17.5 for the collection of 35 soil samples. Boring EB-13 was excavated to a depth of 2 feet using a hand-auger. Soil samples were collected at general depths of 0 to 1 foot, 1 to 2 feet and 2 to 3 feet. Samples for asbestos analysis were also collected from seven of the ADL borings. Sample locations are depicted on Figure 2-2. Soil samples obtained from the direct-push borings were collected in clear PVC liners driven by the direct-push rig. After we collected a soil sample, the PVC was cut to separate the sample by depth and each sample was transferred to individual Ziploc® re-sealable plastic bags. Soil samples collected from hand-auger boring EB-13 were transferred directly from the hand-auger bucket to a Ziploc® re-sealable plastic bag. The soil samples were field homogenized and delivered to ATL under COC protocol.

4.2 NOA Investigation

PM 8.9 to 9.2

Nine samples for asbestos analysis were collected from six direct-push borings performed for NOA sampling (S1 through S6) and as split samples from three direct-push borings performed for ADL sampling (WB7 through WB9).

Borings S1 through S6 were performed to a depth of up to 3 feet in an area south of SR-70 that is used by Caltrans for the disposal of soil and rock debris. Samples for asbestos analysis were collected from the bottom foot of each boring. Borings WB7 through WB9 were performed to a depth up to 3 feet for ADL and NOA sampling along the westbound shoulder of SR-70. Samples for asbestos analysis were

collected as split samples from the bottom one foot of the ADL borings. Soil samples obtained from the direct-push borings were collected in clear PVC liners driven by the direct-push rig. After we collected a soil sample, the PVC was cut to separate the sample by depth and each sample was transferred to individual Ziploc® re-sealable plastic bags. The soil samples were field homogenized and delivered to EMSL under COC protocol. Sample locations are depicted on Figure 2-1.

PM 17.1 to 17.5

Thirteen samples for asbestos analysis were collected at three shoulder locations (S7 through S9), three stockpile locations (S10 through S12) and as split samples from seven direct-push borings performed in fill for ADL sampling (EB11, EB12, EB14, EB15 and WB16 through WB18) to a depth up to 3 feet. Shoulder and stockpile samples were collected as targeted surface samples of rock and soil materials. Samples collected from direct-push borings for ADL sampling were collected as splits from the bottom one foot of each boring. Soil samples obtained from the direct-push borings were collected in clear PVC liners driven by the direct-push rig. After we collected a soil sample, the PVC was cut to separate the sample by depth and each sample was transferred to individual Ziploc® re-sealable plastic bags. The soil samples were field homogenized and delivered to EMSL under COC protocol. Sample locations are depicted on Figure 2-2.

4.3 Paint Chip Samples

We obtained three paint chip samples from the yellow stripe in the center of SR-70, one between PM 8.9 and 9.2 and two between PM 17.1 and 17.5. Paint chip samples were collected by removing the yellow paint stripe with a hammer and chisel. Samples were placed in Ziploc® re-sealable plastic bags and delivered to ATL under COC protocol.

4.4 Traffic Control

Full lane closure with a guided pilot car and flaggers was provided by Caltrans personnel.

4.5 Quality Assurance/Quality Control (QA/QC) Procedures

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

4.6 Laboratory Analyses

Prior to submitting the samples to the laboratories, the COC documentation was reviewed for accuracy

and completeness. Reproductions of the laboratory reports and COC documentation are presented in Appendix A.

4.6.1 Lead Samples

Sixty-three soil samples and three paint chip samples were submitted to ATL for total lead analysis following the United States Environmental Protection Agency (EPA) Test Method 6010B. The analyses were performed under expedited five-day turn-around-time (TAT).

4.6.2 Naturally Occurring Asbestos Samples

Twenty-two NOA samples were submitted to EMSL for asbestos fiber analysis using polarized light microscopy (PLM) by CARB Method 435 (CARB 435) under standard 5-day TAT. The CARB 435 preparation includes milling the sample to a -200 mesh size which also homogenizes the sample. The analytical sensitivity of the PLM analysis was 0.25% by area.

Four of the samples submitted to EMSL were additionally analyzed for asbestos using transmission electron microscopy (TEM) by the CARB 435 method. The analytical sensitivity of the TEM analysis was 0.01% by weight.

4.6.3 Laboratory QA/QC Procedures

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

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

5.0 FIELD OBSERVATIONS AND INVESTIGATIVE RESULTS

5.1 Site Geology

We reviewed the California Geological Survey's (CGS) *Geologic Map of the Chico Quadrangle* (Chico Sheet) (CGS 1992) and the *Geologic Map of the Westwood Quadrangle* (Westwood Sheet) (CGS 1960) prior to beginning the field work to gather information regarding the potential presence of NOA on the Site. The geologic materials depicted on the Chico Sheet on or adjacent to SR-70 between PM 8.9 and 9.2 are Mesozoic Granitic Rocks. The geologic materials depicted on the Westwood Sheet

on or adjacent to SR-70 between PM 17.1 and 17.5 are Paleozoic limestone. Ultramafic rocks are mapped approximately 1 mile east of the Site.

Mike O'Brien collected various rock samples from slopes, stockpiles, and highway shoulders during the task order meeting, and Mark Repking performed a NOA assessment of the lithology of outcrops visible within the Caltrans right-of-way during the field sampling activities. Geologic materials observed within Caltrans right-of-way between PM 8.9 and 9.2 consisted of granitic bedrock to the north and fill to the south. Visible fill materials observed south of SR-70 in the Caltrans disposal area consisted predominantly of sandy gravel comprised of slate and other metamorphic derived materials. Trace amounts of gravel to sand-sized ultramafic materials were observed scattered at the surface of the disposal area. The eastern edge of the disposal area was observed to be silty schist gravel. Soil samples collected along SR-70 between PM 8.9 and 9.2 consisted primarily of brown silty sands and poorly graded sands with gravel.

We observed fill between PM 17.1 and 17.5 along the eastbound shoulder, a Caltrans stockpile to the north of SR-70 and metamorphosed limestone and slate bedrock along the westbound shoulder. Fill materials along the eastbound shoulder and within the Caltrans stockpile were observed to contain gravel and boulders of slate, schist, partially metamorphosed limestone, serpentine and ultramafic rock. Soils samples collected along SR-70 between PM 17.1 and 17.5 consisted primarily of brown to dark brown silty fine sands with variable amounts of gravel and trace clay. Groundwater was not encountered during the site investigation.

5.2 ADL and Paint Stripe Analytical Results

Total lead was detected in 38 of the 63 soil samples analyzed at concentrations ranging from 5.1 to 61 mg/kg. Only one of the 63 soil samples had a reported total lead concentration greater than 50 mg/kg (ten times the STLC value for lead of 5.0 mg/l).

Total lead was detected in each of the three paint chip samples at concentrations ranging from 8.3 to 72 mg/kg. Only one of the paint chip samples had a reported total lead concentration greater than 50 mg/kg (ten times the STLC value for lead of 5.0 mg/l).

A summary of the soil and paint chip sample analytical results is presented on Tables 1 through 3. The laboratory report and COC documentation are presented in Appendix A.

5.3 NOA Results

PM 8.9 to 9.2

Eight of the nine soil samples analyzed between PM 8.9 and 9.2 were reported as non-detect for asbestos. One sample (S5-0) was reported to contain <0.25% chrysotile asbestos by PLM and 0.02% chrysotile asbestos by weight by TEM, below the CARB regulatory limit. A summary of analytical results for samples collected between PM 8.9 and 9.2 is presented on Table 4. The laboratory report and COC documentation are presented in Appendix A.

PM 17.1 to 17.5

Thirteen samples collected from shoulder, fill and stockpile materials were analyzed for asbestos using the PLM method. Three samples were additionally analyzed by the TEM method. Two of the ten samples analyzed from shoulder and fill materials were reported to contain chrysotile, anthophyllite and tremolite asbestos at or above the CARB regulatory limit of 0.25% by the PLM and/or TEM methods. Two of the samples analyzed for asbestos from the stockpile area were reported to contain chrysotile asbestos above 1% by the PLM method. The third sample from the stockpile area was reported to contain chrysotile asbestos at <0.25% by PLM and <0.01% by TEM. A summary of analytical results for samples collected between PM 17.1 and 17.5 is presented on Table 5. The laboratory report and COC documentation are presented in Appendix A.

5.4 Laboratory Quality Assurance/Quality Control

The ATL laboratory QA/QC report indicates acceptable percent recoveries for the matrix spike/matrix spike duplicates, surrogate recoveries and non-detect results for the method blanks. However, the relative percent differences (RPDs) for EPA Method 6010 were outside the RPD limit. The Case Narrative in the laboratory report states “RPD for Duplicate (DUP) is outside criteria for samples 109049-62ADUP and 109049-066ADUP; however, the Laboratory Control Sample (LCS) validated the analytical batch.” Based on this limited data review, no additional qualifications of the data are necessary, and the data are of sufficient quality for the purposes of this report.

5.5 Statistical Evaluation for Lead Detected in Soil Samples

The total lead data for the samples collected from the Site were separated into two sample populations for statistical evaluation as described below:

- Sample population ‘A’ consists of soil samples collected from borings EB1 through EB5 and WB6 through WB10 located along SR-70 between PM 8.9 and 9.2.
- Sample population ‘B’ consists of soil samples collected from borings EB11 through EB15 and WB16 through WB22 located along SR-70 between PM 17.1 and 17.5.

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.

5.5.1 Calculating the UCLs for the True 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 UCLs and statistical results are summarized in the table below:

Sample Population 'A' - SR-70 PM 8.9 to 9.2
(Borings EB1 through EB5 and WB6 through WB10)

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 to 1.0	15.4	16.7	10.9	2.5	32
1.0 to 2.0	8.2	8.7	6.3	2.5	14
2.0 to 3.0	5.4	5.8	3.8	2.5	13

Sample Population 'B' - SR-70 PM 17.1 to 17.5
(Borings EB11 through EB15 and WB16 through WB22)

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 to 1.0	22.3	23.8	17.4	2.5	49
1.0 to 2.0	21.8	23.5	15.4	2.5	61
2.0 to 3.0	8.3	8.8	6.8	2.5	18

6.0 CONCLUSIONS AND RECOMMENDATIONS

6.1 Aerially Deposited Lead

Soil materials excavated to the maximum sampling depth of 3 feet within the project boundaries would not be classified as a California hazardous waste since the calculated 90% and 95% total lead UCLs are less than 50 mg/kg. The reported total lead concentrations for the samples collected between PM 8.9 and 9.2 ranged from 7.3 to 32 mg/kg with an average total lead concentration of 7.2 mg/kg. The reported total lead concentrations for the samples collected between PM 17.1 and 17.5 ranged from 5.1 to 61 mg/kg with an average total lead concentration of 13.1 mg/kg. Consequently, the top 3 feet of excavated soil will not require special soil handling and disposal procedures based on lead content and can be reused onsite or disposed of offsite as non-hazardous soil. We calculated the average total lead concentrations by including the reported total lead concentrations and values equal to one-half of the reporting limit for samples in which total lead was not detected.

6.2 Traffic Stripe Paint

The yellow traffic stripe paint was sampled per Caltrans' request since it may be removed from the underlying asphalt concrete by grinding or sand blasting, which would create a paint waste stream. The analytical results of the traffic stripe paint will be used by Caltrans to provide contractors with preliminary analytical data of the traffic stripe paint. The traffic stripe paint was reported to contain lead at concentrations ranging from 8.3 to 72 mg/kg, significantly below the California hazardous waste threshold of 1,000 mg/kg.

6.3 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.

6.4 Naturally Occurring Asbestos

We collected 22 soil and rock samples for asbestos analysis between PM 8.9 and 9.2 and 17.1 and 17.5. Of these 22 samples, six were reported to contain asbestos, with four containing asbestos concentrations above the CARB regulatory limit of 0.25%.

PM 8.9 to 9.2

NOA was only detected (below the CARB regulatory limit of 0.25%) for one of the nine samples analyzed. Soil disturbing activities along SR-70 between PM 8.9 and 9.2 are not subject to asbestos dust control measures.

PM 17.1 to 17.5

Native bedrock materials on the slope north of SR-70 are composed of geologic materials that are not conducive to the formation of NOA. Soil disturbing activities in this area are not subject to asbestos dust control measures.

Fill and stockpile materials between PM 17.1 and 17.5 were reported to contain asbestos at concentrations greater than 0.25% for four of the thirteen samples analyzed. Each of the samples collected from the stockpile north of SR-70 was reported to contain chrysotile asbestos, with two of the samples reported to contain asbestos at greater than 1.0%. Soil disturbing activities involving fill and stockpile materials between PM 17.1 and 17.5 should comply with asbestos dust control measures as specified in ATCM 93105 and/or 93106.

Though asbestos was reported to be present at or above regulated levels in fill and stockpile materials, the asbestos content does not render these materials unsuitable for reuse within the Caltrans project boundaries. However, construction/maintenance activities involving these asbestos-containing materials may fall under regulatory jurisdiction of the California Division of the Occupational Safety and Health Administration (Cal-OSHA) under CCR Title 8 Section 5208. Mitigation measures during construction/maintenance activities should be utilized to minimize releases of NOA to air (dust control) and surface waters (stormwater discharge). If reused within the Caltrans right-of-way, the material from areas where asbestos was reported to be present at regulated levels can not be used in such a way as to fall under the definition of surfacing material as defined in CARB's Title 17, Section 93106. NOA-containing material must be covered by at least 0.25 foot of material that contains less than 0.25% NOA.

We recommend that fill materials from between PM 17.1 and 17.5 be stockpiled and re-analyzed for asbestos content prior to offsite disposal. If fill materials are not re-analyzed they should be handled as described for stockpile materials below.

We recommend that any excess soil or rock removed from the stockpile area between PM 17.1 and 17.5 be disposed of in a landfill because of the likelihood for asbestos to be present at or above regulated levels. If soil is disposed of offsite, the landfill facility or property owner must be notified that the soil contains levels of asbestos that exceed regulated levels. Soil containing NOA must be

transported in accordance with ATCM 93105, Section E(4)(F), *Control for Off-site Transport*, which states:

"*No trucks are allowed to transport* (NOA-containing) *excavated material off-site unless:*

1. *Trucks are maintained such that no spillage can occur from holes or other openings in cargo compartments; and*
2. *Loads are adequately wetted and either:*
   i. *Covered with tarps; or*
   ii. *Loaded such that the material does not touch the front, back, or sides of the cargo compartment at any point less than six inches from the top and that no point of the load extends above the top of the cargo compartment."*

Under CARB's Title 17, Section 93105, offsite disposal of material containing asbestos at or above regulated levels requires asbestos content notification. Facility-specific landfill acceptance criteria should be determined for disposal of asbestos-containing soil materials.

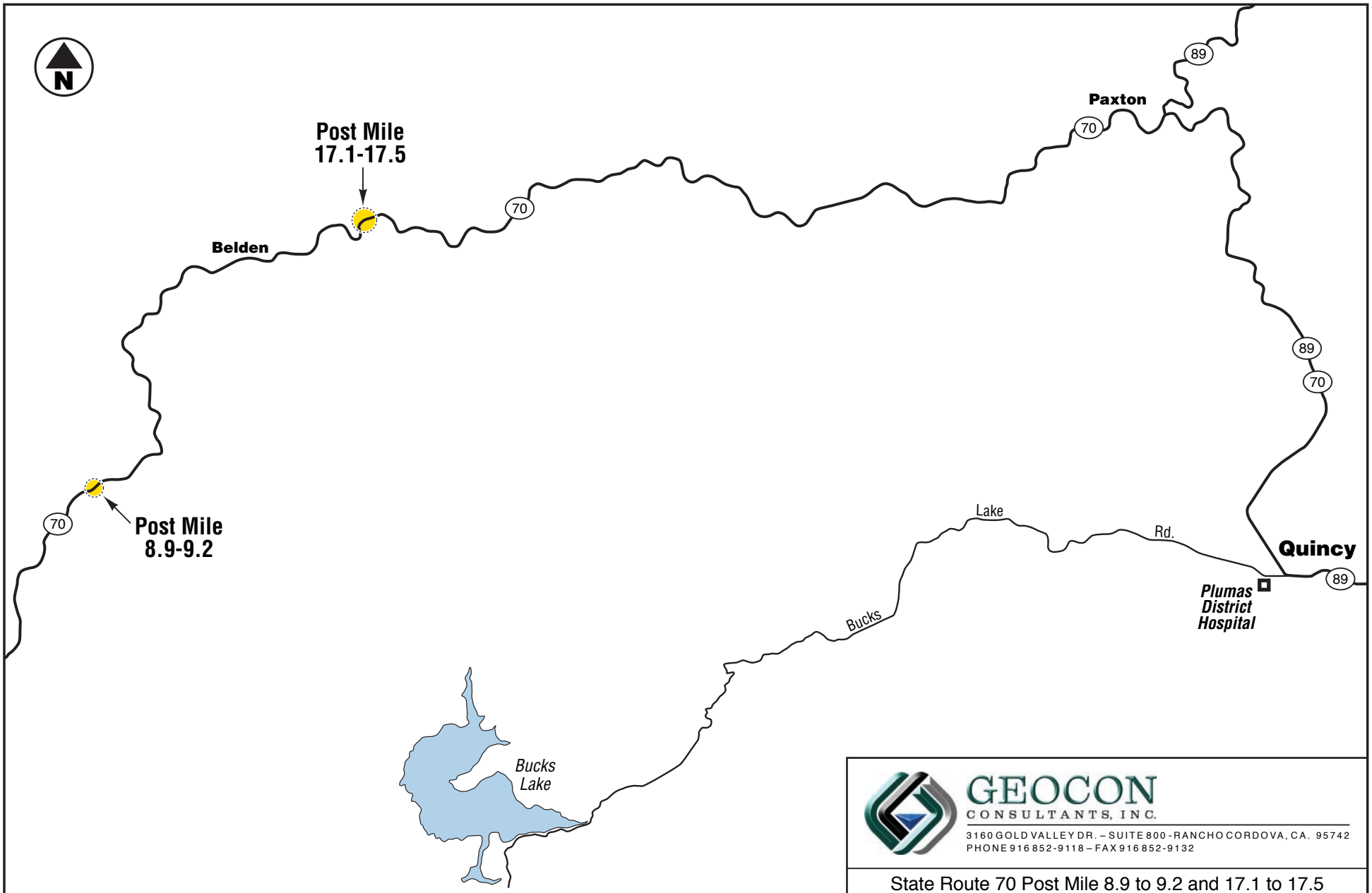
6.5 Asbestos Risk to Human Health

Currently, regulatory exposure limits and health hazard data are not available for NOA in soils. Federal regulations governing asbestos define it as the asbestiform variety of the amphibole minerals actinolite, amosite, anthophyllite, crocidolite, and tremolite, and the asbestiform variety of serpentine, chrysotile. Asbestos fibers occurring in industrial materials are considered by the National Institute for Occupational Safety and Health as potential occupational carcinogens. Prudence is recommended, therefore, in dealing with soils containing NOA. Engineering controls, such as wet methods for dust suppression, should be utilized to minimize aerial dispersion of NOA fibers in planned work areas during excavation and construction activities. Under Title 8 Section 5208 of the CCR, disturbance of asbestos-containing materials requires wet working methods and possible respiratory protection and air monitoring. The CARB has established protocols outlined in Title 17, Section 93105 for the implementation of worker health, safety and monitoring plans for excavation, grading and transport of NOA-containing soils. The excavation contractor should consult Title 17, Section 93105 and contact Cal-OSHA to establish the appropriate regulatory protocol and actions necessary for excavation and/or disturbance of asbestos-containing soils.

7.0 REPORT LIMITATIONS

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

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



GEOCON
CONSULTANTS, INC.
3160 GOLD VALLEY DR. – SUITE 800 - RANCHO CORDOVA, CA. 95742
PHONE 916 852-9118 – FAX 916 852-9132

State Route 70 Post Mile 8.9 to 9.2 and 17.1 to 17.5

Plumas County, California	**VICINITY MAP**	
GEOCON Proj. No. S9300-06-108		
Task Order No. 108, EA 02-2E0000	January 2010	Figure 1

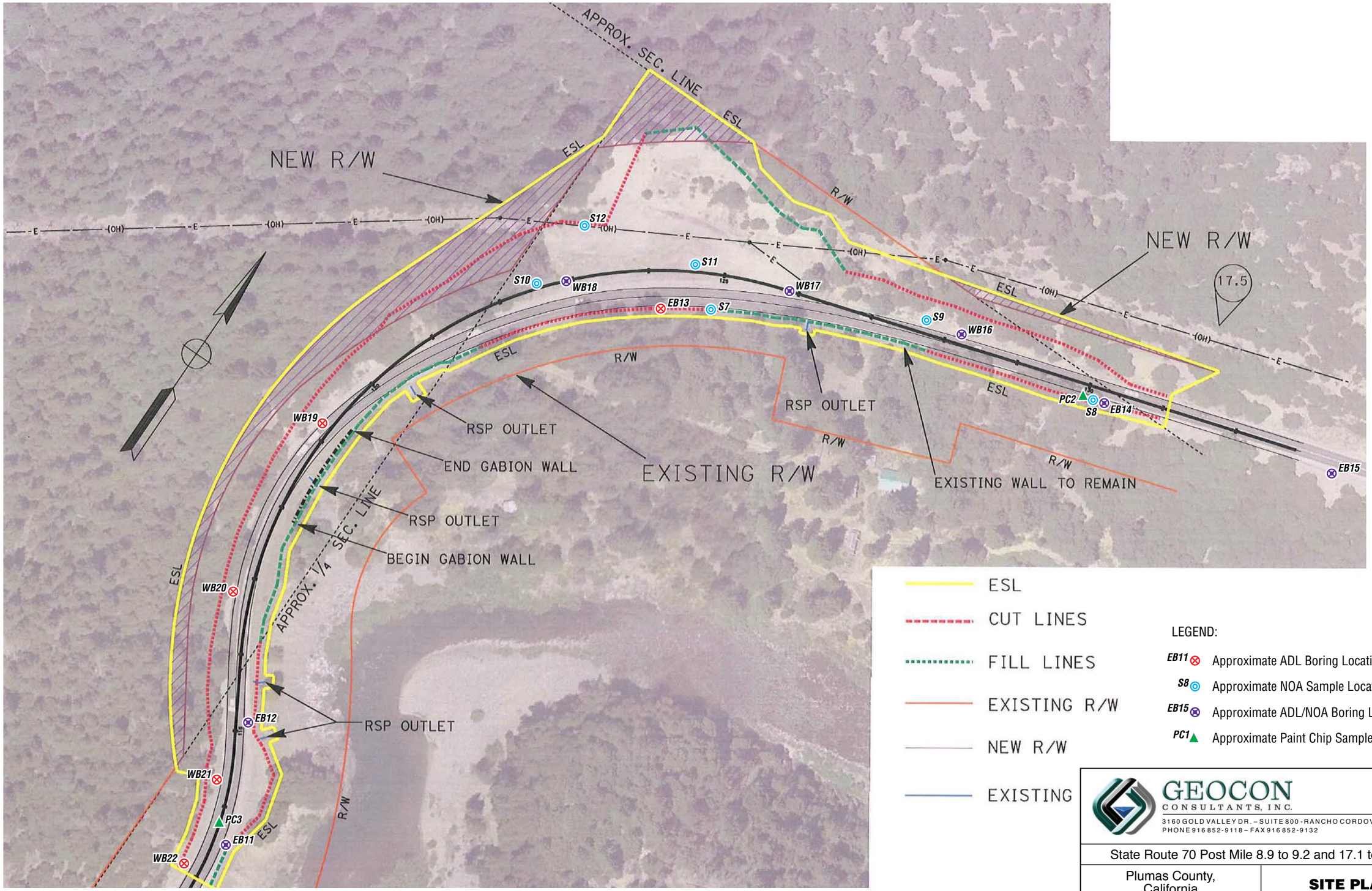
LEGEND:

- EB13 ⊗ Approximate ADL Boring Location
- S8 ⊙ Approximate NOA Boring Location
- EB15 ⊗ Approximate ADL/NOA Boring Location
- PC1 ▲ Approximate Paint Chip Sample Location

GEOCON CONSULTANTS, INC.
3160 GOLD VALLEY DR. – SUITE 800 - RANCHO CORDOVA, CA. 95742
PHONE 916 852-9118 – FAX 916 852-9132

State Route 70 Post Mile 8.9 to 9.2 and 17.1 to 17.5

Plumas County, California	**SITE PLAN PM 8.9 – 9.2**	
GEOCON Proj. No. S9300-06-108		
Task Order No. 108, EA 02-2E0000	January 2010	Figure 2-1



GEOCON
CONSULTANTS, INC.
3160 GOLD VALLEY DR. – SUITE 800 - RANCHO CORDOVA, CA. 95742
PHONE 916 852-9118 – FAX 916 852-9132

State Route 70 Post Mile 8.9 to 9.2 and 17.1 to 17.5

Plumas County, California	**SITE PLAN PM 17.1 – 17.5**	
GEOCON Proj. No. S9300-06-108		
Task Order No. 108, EA 02-2E0000	January 2010	Figure 2-2

TABLE 1
SUMMARY OF SOIL BORING COORDINATES AND LEAD ANALYTICAL RESULTS
HIGHWAY 70 POST MILE 8.9 to 9.2
PLUMAS COUNTY, CALIFORNIA

BORING ID	SAMPLE LOCATION	LATITUDE	LONGITUDE	TOTAL LEAD (mg/kg)
EB1-0	PM 8.9 to 9.2 Eastbound Shoulder	39.955175500	-121.296975353	30
EB1-1	PM 8.9 to 9.2 Eastbound Shoulder	39.955175500	-121.296975353	14
EB1-2	PM 8.9 to 9.2 Eastbound Shoulder	39.955175500	-121.296975353	<5.0
EB2-0	PM 8.9 to 9.2 Eastbound Shoulder	39.955395935	-121.295158339	<5.0
EB2-1	PM 8.9 to 9.2 Eastbound Shoulder	39.955395935	-121.295158339	<5.0
EB2-2	PM 8.9 to 9.2 Eastbound Shoulder	39.955395935	-121.295158339	13
EB3-0	PM 8.9 to 9.2 Eastbound Shoulder	39.956063667	-121.293586764	<5.0
EB3-1	PM 8.9 to 9.2 Eastbound Shoulder	39.956063667	-121.293586764	<5.0
EB3-2	PM 8.9 to 9.2 Eastbound Shoulder	39.956063667	-121.293586764	<5.0
EB4-0	PM 8.9 to 9.2 Eastbound Shoulder	39.957061085	-121.292453921	7.3
EB4-1	PM 8.9 to 9.2 Eastbound Shoulder	39.957061085	-121.292453921	<5.0
EB5-0	PM 8.9 to 9.2 Eastbound Shoulder	39.957701293	-121.291023362	9.0
EB5-1	PM 8.9 to 9.2 Eastbound Shoulder	39.957701293	-121.291023362	8.5
EB5-2	PM 8.9 to 9.2 Eastbound Shoulder	39.957701293	-121.291023362	<5.0
WB6-0	PM 8.9 to 9.2 Westbound Shoulder	39.957229170	-121.292533683	<5.0
WB6-1	PM 8.9 to 9.2 Westbound Shoulder	39.957229170	-121.292533683	13
WB6-2	PM 8.9 to 9.2 Westbound Shoulder	39.957229170	-121.292533683	<5.0
WB7-0	PM 8.9 to 9.2 Westbound Shoulder	39.956170357	-121.293796937	<5.0
WB7-1	PM 8.9 to 9.2 Westbound Shoulder	39.956170357	-121.293796937	<5.0
WB7-2	PM 8.9 to 9.2 Westbound Shoulder	39.956170357	-121.293796937	<5.0
WB8-0	PM 8.9 to 9.2 Westbound Shoulder	39.955552965	-121.295197262	<5.0
WB8-1	PM 8.9 to 9.2 Westbound Shoulder	39.955552965	-121.295197262	<5.0
WB9-0	PM 8.9 to 9.2 Westbound Shoulder	39.955415860	-121.296168936	32
WB9-1	PM 8.9 to 9.2 Westbound Shoulder	39.955415860	-121.296168936	12
WB9-2	PM 8.9 to 9.2 Westbound Shoulder	39.955415860	-121.296168936	<5.0
WB10-0	PM 8.9 to 9.2 Westbound Shoulder	39.955243834	-121.297166761	18
WB10-1	PM 8.9 to 9.2 Westbound Shoulder	39.955243834	-121.297166761	<5.0
WB10-2	PM 8.9 to 9.2 Westbound Shoulder	39.955243834	-121.297166761	<5.0

Notes:

EB1-0
- Sample depth in feet below ground surface
- Boring identification

mg/kg = Milligrams per kilogram

< = Less than laboratory reporting limits

TABLE 2
SUMMARY OF SOIL BORING COORDINATES AND LEAD ANALYTICAL RESULTS
HIGHWAY 70 POST MILE 17.1 to 17.5
PLUMAS COUNTY, CALIFORNIA

BORING ID	SAMPLE LOCATION	LATITUDE	LONGITUDE	TOTAL LEAD (mg/kg)
EB11-0	PM 17.1 to 17.5 Eastbound Shoulder	40.012333209	-121.216429590	9.6
EB11-1	PM 17.1 to 17.5 Eastbound Shoulder	40.012333209	-121.216429590	<5.0
EB11-2	PM 17.1 to 17.5 Eastbound Shoulder	40.012333209	-121.216429590	<5.0
EB12-0	PM 17.1 to 17.5 Eastbound Shoulder	40.013056742	-121.216643450	14
EB12-1	PM 17.1 to 17.5 Eastbound Shoulder	40.013056742	-121.216643450	6.5
EB12-2	PM 17.1 to 17.5 Eastbound Shoulder	40.013056742	-121.216643450	6.7
EB13-0	PM 17.1 to 17.5 Eastbound Shoulder	40.015300829	-121.215924182	<5.0
EB13-1	PM 17.1 to 17.5 Eastbound Shoulder	40.015300829	-121.215924182	**61**
EB14-0	PM 17.1 to 17.5 Eastbound Shoulder	40.015677037	-121.214757851	29
EB14-1	PM 17.1 to 17.5 Eastbound Shoulder	40.015677037	-121.214757851	7.5
EB14-2	PM 17.1 to 17.5 Eastbound Shoulder	40.015677037	-121.214757851	6.3
EB15-0	PM 17.1 to 17.5 Eastbound Shoulder	40.016007093	-121.213231933	15
EB15-1	PM 17.1 to 17.5 Eastbound Shoulder	40.016007093	-121.213231933	12
EB15-2	PM 17.1 to 17.5 Eastbound Shoulder	40.016007093	-121.213231933	18
WB16-0	PM 17.1 to 17.5 Westbound Shoulder	40.015670826	-121.215119063	49
WB16-1	PM 17.1 to 17.5 Westbound Shoulder	40.015670826	-121.215119063	25
WB16-2	PM 17.1 to 17.5 Westbound Shoulder	40.015670826	-121.215119063	9.3
WB17-0	PM 17.1 to 17.5 Westbound Shoulder	40.015504472	-121.215721007	12
WB17-1	PM 17.1 to 17.5 Westbound Shoulder	40.015504472	-121.215721007	9.0
WB17-2	PM 17.1 to 17.5 Westbound Shoulder	40.015504472	-121.215721007	<5.0
WB18-0	PM 17.1 to 17.5 Westbound Shoulder	40.015084745	-121.216510751	9.5
WB18-1	PM 17.1 to 17.5 Westbound Shoulder	40.015084745	-121.216510751	<5.0
WB18-2	PM 17.1 to 17.5 Westbound Shoulder	40.015084745	-121.216510751	5.1
WB19-0	PM 17.1 to 17.5 Westbound Shoulder	40.014175588	-121.217295283	38
WB19-1	PM 17.1 to 17.5 Westbound Shoulder	40.014175588	-121.217295283	7.9
WB19-2	PM 17.1 to 17.5 Westbound Shoulder	40.014175588	-121.217295283	<5.0
WB20-0	PM 17.1 to 17.5 Westbound Shoulder	NA	NA	13
WB20-1	PM 17.1 to 17.5 Westbound Shoulder	NA	NA	26
WB20-2	PM 17.1 to 17.5 Westbound Shoulder	NA	NA	9.5
WB21-0	PM 17.1 to 17.5 Westbound Shoulder	NA	NA	6.7
WB21-1	PM 17.1 to 17.5 Westbound Shoulder	NA	NA	9.0
WB21-2	PM 17.1 to 17.5 Westbound Shoulder	NA	NA	6.6
WB22-0	PM 17.1 to 17.5 Westbound Shoulder	40.012142313	-121.216659014	10
WB22-1	PM 17.1 to 17.5 Westbound Shoulder	40.012142313	-121.216659014	9.5
WB22-2	PM 17.1 to 17.5 Westbound Shoulder	40.012142313	-121.216659014	<5.0

Notes:

EB1-0
- Sample depth in feet below ground surface
- Boring identification

mg/kg = Milligrams per kilogram

< = Less than laboratory reporting limits

NA = Not available

Concentrations in bold type are greater than or equal to 50 mg/kg (ten times the STLC value for lead of 5.0 mg/l)

TABLE 3

SUMMARY OF TRAFFIC STRIPE PAINT SAMPLE ANALYTICAL RESULTS
HIGHWAY 70 POST MILE 8.9 to 9.2, 17.1 to 17.5
PLUMAS COUNTY, CALIFORNIA

SAMPLE ID	SAMPLE LOCATION	LATITUDE	LONGITUDE	TOTAL LEAD (mg/kg)
PC1	PM 8.9 to 9.2 Center Yellow Stripe	39.956098011	-121.293705763	**72**
PC2	PM 17.1 to 17.5 Center Yellow Stripe	40.015683005	-121.214871564	8.3
PC3	PM 17.1 to 17.5 Center Yellow Stripe	40.012187061	-121.216559628	12

Note:
mg/kg = Milligrams per kilogram

TABLE 4
SUMMARY OF ASBESTOS ANALYTICAL RESULTS
HIGHWAY 70 POST MILE 8.9 TO 9.2
PLUMAS COUNTY, CALIFORNIA

SAMPLE I.D.	SAMPLE TYPE	LOCATION SAMPLED	LATITUDE	LONGITUDE	ANALYTICAL METHOD	ASBESTOS %	ASBESTOS TYPE
S1-2	Stockpile	PM 8.9-9.2 Stockpile	39.954606693	-121.296164482	PLM	ND	ND
S2-2	Stockpile	PM 8.9-9.2 Stockpile	39.954606353	-121.295247498	PLM	ND	ND
S3-1	Stockpile	PM 8.9-9.2 Stockpile	39.954807521	-121.294329926	PLM	ND	ND
S4-2	Stockpile	PM 8.9-9.2 Stockpile	39.955664982	-121.293499121	PLM	ND	ND
S5-0	Stockpile	PM 8.9-9.2 Stockpile	39.955555753	-121.294026557	PLM/TEM	<0.25/0.02	Chrysotile
S6-2	Stockpile	PM 8.9-9.2 Stockpile	39.955476983	-121.294146551	PLM	ND	ND
WB7-2	Fill	PM 8.9-9.2 Westbound Shoulder	39.956170357	-121.293796937	PLM	ND	ND
WB8-1	Fill	PM 8.9-9.2 Westbound Shoulder	39.955552965	-121.295197262	PLM	ND	ND
WB9-2	Fill	PM 8.9-9.2 Westbound Shoulder	39.955415860	-121.296168936	PLM	ND	ND

Notes:

PLM = Polarized light microscopy
TEM = Transmission electron microscope
ND = None detected
<0.25 = Less than the laboratory reporting limit

TABLE 5
SUMMARY OF ASBESTOS ANALYTICAL RESULTS
HIGHWAY 70 POST MILE 17.1 TO 17.5
PLUMAS COUNTY, CALIFORNIA

SAMPLE I.D.	SAMPLE TYPE	LOCATION SAMPLED	LATITUDE	LONGITUDE	ANALYTICAL METHOD	ASBESTOS %	ASBESTOS TYPE
EB11-2	Fill	PM 17.1-17.5 Eastbound Shoulder	40.012333209	-121.216429590	PLM/TEM	<0.25/1.05	Chrysotile, Anthophyllite, Tremolite
EB12-2	Fill	PM 17.1-17.5 Eastbound Shoulder	40.013056742	-121.216643450	PLM	ND	ND
S7-0	Fill	PM 17.1-17.5 Westbound Slope Surface	40.015309363	-121.215911352	PLM	ND	ND
S8-0	Fill	PM 17.1-17.5 Eastbound Slope Surface	40.015650123	-121.214807423	PLM/TEM	0.25/0.41	Chrysotile
EB14-2	Fill	PM 17.1-17.5 Eastbound Shoulder	40.015677037	-121.214757851	PLM	ND	ND
EB15-2	Fill	PM 17.1-17.5 Eastbound Shoulder	40.016007093	-121.213231933	PLM	ND	ND
S9-0	Fill	PM 17.1-17.5 Eastbound Slope Stockpile	40.015686380	-121.215047117	PLM	ND	ND
WB16-2	Fill	PM 17.1-17.5 Westbound Shoulder	40.015670826	-121.215119063	PLM	ND	ND
WB17-2	Fill	PM 17.1-17.5 Westbound Shoulder	40.015504472	-121.215721007	PLM	ND	ND
WB18-2	Fill	PM 17.1-17.5 Westbound Shoulder	40.015084745	-121.216510751	PLM	ND	ND
S10-0	Stockpile	PM 17.1-17.5 Stockpile	40.015155371	-121.216517344	PLM	2.5	Chrysotile
S11-0	Stockpile	PM 17.1-17.5 Stockpile	40.015441546	-121.216220082	PLM	1.5	Chrysotile
S12-0	Stockpile	PM 17.1-17.5 Stockpile	40.015293593	-121.216509424	PLM/TEM	<0.25/<0.01	Chrysotile

Notes:

PLM = Polarized light microscopy
TEM = Transmission electron microscope
ND = None detected
<0.25 = Less than the laboratory reporting limit

APPENDIX A

December 16, 2009

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

TEL: (916) 852-9118
FAX: (916) 852-9132

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

Workorder No.: 109049

RE: Plumas 70 Caribou Curve, S9300-06-108

Attention: Rebecca Silva

Enclosed are the results for sample(s) received on December 09, 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,

Eddie F. Rodriguez
Laboratory Director

CLIENT: Geocon Consultants, Inc.
Project: Plumas 70 Caribou Curve, S9300-06-108
Lab Order: 109049

CASE NARRATIVE

Analytical Comments for Method 6010

RPD for Duplicate (DUP) is outside criteria for samples 109049-062ADUP and 109049-066ADUP; however, the Laboratory Control Sample (LCS) validated the analytical batch.

Advanced Technology Laboratories
3275 Walnut Avenue, Signal Hill, CA 90755 Tel: 562. 989.4045 Fax: 562.989.4040

Advanced Technology Laboratories

Date: 12/16/2009

ANALYTICAL RESULTS

LEAD BY ICP
EPA 6010B

CLIENT:	Geocon Consultants, Inc.	**Lab Order:**	109049
Project:	Plumas 70 Caribou Curve, S9300-06-108	**Date Received**	12/9/2009 10:16:00 AM
Project No:		**Matrix:**	Soil
Analyte:	Lead	**Analyst:**	RQ

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
109049-001A	EB1-0	30	mg/Kg	60430	5.0	1	12/4/2009	12/14/2009
109049-002A	EB1-1	14	mg/Kg	60430	5.0	1	12/4/2009	12/14/2009
109049-003A	EB1-2	ND	mg/Kg	60430	5.0	1	12/4/2009	12/14/2009
109049-004A	EB2-0	ND	mg/Kg	60430	5.0	1	12/4/2009	12/14/2009
109049-005A	EB2-1	ND	mg/Kg	60430	5.0	1	12/4/2009	12/14/2009
109049-006A	EB2-2	13	mg/Kg	60430	5.0	1	12/4/2009	12/14/2009
109049-007A	EB3-0	ND	mg/Kg	60430	5.0	1	12/4/2009	12/14/2009
109049-008A	EB3-1	ND	mg/Kg	60430	5.0	1	12/4/2009	12/14/2009
109049-009A	EB3-2	ND	mg/Kg	60430	5.0	1	12/4/2009	12/14/2009
109049-010A	EB4-0	7.3	mg/Kg	60430	5.0	1	12/4/2009	12/14/2009
109049-011A	EB4-1	ND	mg/Kg	60430	5.0	1	12/4/2009	12/14/2009
109049-012A	EB5-0	9.0	mg/Kg	60430	5.0	1	12/4/2009	12/14/2009
109049-013A	EB5-1	8.5	mg/Kg	60430	5.0	1	12/4/2009	12/14/2009
109049-014A	EB5-2	ND	mg/Kg	60430	5.0	1	12/4/2009	12/14/2009
109049-015A	WB6-0	ND	mg/Kg	60430	5.0	1	12/4/2009	12/14/2009
109049-016A	WB6-1	13	mg/Kg	60430	5.0	1	12/4/2009	12/14/2009
109049-017A	WB6-2	ND	mg/Kg	60430	5.0	1	12/4/2009	12/14/2009
109049-018A	WB7-0	ND	mg/Kg	60430	5.0	1	12/4/2009	12/14/2009

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		

Advanced Technology Laboratories

Date: 12/16/2009

ANALYTICAL RESULTS

LEAD BY ICP
EPA 6010B

CLIENT:	Geocon Consultants, Inc.	**Lab Order:**	109049
Project:	Plumas 70 Caribou Curve, S9300-06-108	**Date Received**	12/9/2009 10:16:00 AM
Project No:		**Matrix:**	Soil
Analyte:	Lead	**Analyst:**	RQ

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
109049-019A	WB7-1	ND	mg/Kg	60430	5.0	1	12/4/2009	12/14/2009
109049-020A	WB7-2	ND	mg/Kg	60430	5.0	1	12/4/2009	12/14/2009
109049-022A	WB8-0	ND	mg/Kg	60431	5.0	1	12/4/2009	12/14/2009
109049-023A	WB8-1	ND	mg/Kg	60431	5.0	1	12/4/2009	12/14/2009
109049-024A	WB9-0	32	mg/Kg	60431	5.0	1	12/4/2009	12/14/2009
109049-025A	WB9-1	12	mg/Kg	60431	5.0	1	12/4/2009	12/14/2009
109049-026A	WB9-2	ND	mg/Kg	60431	5.0	1	12/4/2009	12/14/2009
109049-027A	WB10-0	18	mg/Kg	60431	5.0	1	12/4/2009	12/14/2009
109049-028A	WB10-1	ND	mg/Kg	60431	5.0	1	12/4/2009	12/14/2009
109049-029A	WB10-2	ND	mg/Kg	60431	5.0	1	12/4/2009	12/14/2009
109049-030A	EB11-0	9.6	mg/Kg	60431	5.0	1	12/4/2009	12/14/2009
109049-031A	EB11-1	ND	mg/Kg	60431	5.0	1	12/4/2009	12/14/2009
109049-032A	EB11-2	ND	mg/Kg	60431	5.0	1	12/4/2009	12/14/2009
109049-033A	EB12-0	14	mg/Kg	60431	5.0	1	12/4/2009	12/14/2009
109049-034A	EB12-1	6.5	mg/Kg	60431	5.0	1	12/4/2009	12/14/2009
109049-035A	EB12-2	6.7	mg/Kg	60431	5.0	1	12/4/2009	12/14/2009
109049-036A	EB13-0	ND	mg/Kg	60431	5.0	1	12/4/2009	12/14/2009
109049-037A	EB13-1	61	mg/Kg	60431	5.0	1	12/4/2009	12/14/2009

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		

Advanced Technology Laboratories

Date: 12/16/2009

ANALYTICAL RESULTS

LEAD BY ICP
EPA 6010B

CLIENT:	Geocon Consultants, Inc.	**Lab Order:**	109049
Project:	Plumas 70 Caribou Curve, S9300-06-108	**Date Received**	12/9/2009 10:16:00 AM
Project No:		**Matrix:**	Soil
Analyte:	Lead	**Analyst:**	RQ

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
109049-038A	EB14-0	29	mg/Kg	60431	5.0	1	12/4/2009	12/14/2009
109049-039A	EB14-1	7.5	mg/Kg	60431	5.0	1	12/4/2009	12/14/2009
109049-040A	EB14-2	6.3	mg/Kg	60431	5.0	1	12/4/2009	12/14/2009
109049-042A	EB15-0	15	mg/Kg	60431	5.0	1	12/4/2009	12/14/2009
109049-043A	EB15-1	12	mg/Kg	60432	5.0	1	12/4/2009	12/14/2009
109049-044A	EB15-2	18	mg/Kg	60432	5.0	1	12/4/2009	12/14/2009
109049-045A	WB16-0	49	mg/Kg	60432	5.0	1	12/4/2009	12/14/2009
109049-046A	WB16-1	25	mg/Kg	60432	5.0	1	12/4/2009	12/14/2009
109049-047A	WB16-2	9.3	mg/Kg	60432	5.0	1	12/4/2009	12/14/2009
109049-048A	WB17-0	12	mg/Kg	60432	5.0	1	12/4/2009	12/14/2009
109049-049A	WB17-1	9.0	mg/Kg	60432	5.0	1	12/4/2009	12/14/2009
109049-050A	WB17-2	ND	mg/Kg	60432	5.0	1	12/4/2009	12/14/2009
109049-051A	WB18-0	9.5	mg/Kg	60432	5.0	1	12/4/2009	12/14/2009
109049-052A	WB18-1	ND	mg/Kg	60432	5.0	1	12/4/2009	12/14/2009
109049-053A	WB18-2	5.1	mg/Kg	60432	5.0	1	12/4/2009	12/14/2009
109049-054A	WB19-0	38	mg/Kg	60432	5.0	1	12/4/2009	12/14/2009
109049-055A	WB19-1	7.9	mg/Kg	60432	5.0	1	12/4/2009	12/14/2009
109049-056A	WB19-2	ND	mg/Kg	60432	5.0	1	12/4/2009	12/14/2009

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		

Advanced Technology Laboratories

Date: 12/16/2009

ANALYTICAL RESULTS

LEAD BY ICP
EPA 6010B

CLIENT:	Geocon Consultants, Inc.	**Lab Order:**	109049
Project:	Plumas 70 Caribou Curve, S9300-06-108	**Date Received**	12/9/2009 10:16:00 AM
Project No:		**Matrix:**	Soil
Analyte:	Lead	**Analyst:**	RQ

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
109049-057A	WB20-0	13	mg/Kg	60432	5.0	1	12/4/2009	12/14/2009
109049-058A	WB20-1	26	mg/Kg	60432	5.0	1	12/4/2009	12/14/2009
109049-059A	WB20-2	9.5	mg/Kg	60432	5.0	1	12/4/2009	12/14/2009
109049-060A	WB21-0	6.7	mg/Kg	60432	5.0	1	12/4/2009	12/14/2009
109049-061A	WB21-1	9.0	mg/Kg	60432	5.0	1	12/4/2009	12/14/2009
109049-062A	WB21-2	6.6	mg/Kg	60432	5.0	1	12/4/2009	12/14/2009
109049-063A	WB22-0	10	mg/Kg	60433	5.0	1	12/4/2009	12/14/2009
109049-064A	WB22-1	9.5	mg/Kg	60433	5.0	1	12/4/2009	12/14/2009
109049-065A	WB22-2	ND	mg/Kg	60433	5.0	1	12/4/2009	12/14/2009

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. **Lab Order:** 109049
Project: Plumas 70 Caribou Curve, S9300-06-108

Lab ID: 109049-021 **Collection Date:** 12/4/2009
Client Sample ID: PC1 **Matrix:** PAINT

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS						
	EPA 3050B			**EPA 6010B**		
RunID: ICP8_091215A	QC Batch: 60465			PrepDate: 12/14/2009	Analyst: **CL**	
Lead	72	1.0		mg/Kg	1	12/15/2009 10:57 AM

Lab ID: 109049-041 **Collection Date:** 12/4/2009
Client Sample ID: PC2 **Matrix:** PAINT

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS						
	EPA 3050B			**EPA 6010B**		
RunID: ICP8_091215A	QC Batch: 60465			PrepDate: 12/14/2009	Analyst: **CL**	
Lead	8.3	2.6		mg/Kg	1	12/15/2009 10:53 AM

Lab ID: 109049-066 **Collection Date:** 12/4/2009
Client Sample ID: PC3 **Matrix:** PAINT

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS						
	EPA 3050B			**EPA 6010B**		
RunID: ICP8_091215A	QC Batch: 60465			PrepDate: 12/14/2009	Analyst: **CL**	
Lead	12	2.0		mg/Kg	1	12/15/2009 10:19 AM

Qualifiers:

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

CLIENT: Geocon Consultants, Inc.
Work Order: 109049
Project: Plumas 70 Caribou Curve, S9300-06-108

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_S

Sample ID: **MB-60465** SampType: **MBLK** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **12/14/2009** RunNo: **116041**
Client ID: **PBS** Batch ID: **60465** TestNo: **EPA 6010B** **EPA 3050B** Analysis Date: **12/15/2009** SeqNo: **1841521**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.179	1.0									

Sample ID: **LCS-60465** SampType: **LCS** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **12/14/2009** RunNo: **116041**
Client ID: **LCSS** Batch ID: **60465** TestNo: **EPA 6010B** **EPA 3050B** Analysis Date: **12/15/2009** SeqNo: **1841522**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	47.183	1.0	50.00	0.1787	94.0	80	120				

Sample ID: **109049-066ADUP** SampType: **DUP** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **12/14/2009** RunNo: **116041**
Client ID: **PC3** Batch ID: **60465** TestNo: **EPA 6010B** **EPA 3050B** Analysis Date: **12/15/2009** SeqNo: **1841526**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	49.269	2.0						11.51	124	20	R

Sample ID: **109049-066AMS** SampType: **MS** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **12/14/2009** RunNo: **116041**
Client ID: **PC3** Batch ID: **60465** TestNo: **EPA 6010B** **EPA 3050B** Analysis Date: **12/15/2009** SeqNo: **1841527**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	223.684	2.0	250.0	11.51	84.9	33	120				

Sample ID: **109049-066AMSD** SampType: **MSD** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **12/14/2009** RunNo: **116041**
Client ID: **PC3** Batch ID: **60465** TestNo: **EPA 6010B** **EPA 3050B** Analysis Date: **12/15/2009** SeqNo: **1841528**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	216.916	2.0	250.0	11.51	82.2	33	120	223.7	3.07	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: 109049
Project: Plumas 70 Caribou Curve, S9300-06-108

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_SPB

Sample ID: **MB-60430A** SampType: **MBLK** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **12/14/2009** RunNo: **116024**
Client ID: **PBS** Batch ID: **60430** TestNo: **EPA 6010B** **EPA 3050M** Analysis Date: **12/14/2009** SeqNo: **1841218**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	1.010	5.0									

Sample ID: **LCS-60430** SampType: **LCS** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **12/14/2009** RunNo: **116024**
Client ID: **LCSS** Batch ID: **60430** TestNo: **EPA 6010B** **EPA 3050M** Analysis Date: **12/14/2009** SeqNo: **1841219**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	282.800	5.0	250.0	1.010	113	80	120				

Sample ID: **109049-010ADUP** SampType: **DUP** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **12/14/2009** RunNo: **116024**
Client ID: **EB4-0** Batch ID: **60430** TestNo: **EPA 6010B** **EPA 3050M** Analysis Date: **12/14/2009** SeqNo: **1841230**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	4.746	5.0						7.284	0	20	

Sample ID: **109049-010AMS** SampType: **MS** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **12/14/2009** RunNo: **116024**
Client ID: **EB4-0** Batch ID: **60430** TestNo: **EPA 6010B** **EPA 3050M** Analysis Date: **12/14/2009** SeqNo: **1841231**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	228.772	5.0	250.0	7.284	88.6	33	120				

Sample ID: **MB-60430B** SampType: **MBLK** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **12/14/2009** RunNo: **116024**
Client ID: **PBS** Batch ID: **60430** TestNo: **EPA 6010B** **EPA 3050M** Analysis Date: **12/14/2009** SeqNo: **1841232**

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	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: 109049
Project: Plumas 70 Caribou Curve, S9300-06-108

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_SPB

Sample ID: **109049-020ADUP** SampType: **DUP** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **12/14/2009** RunNo: **116024**
Client ID: **WB7-2** Batch ID: **60430** TestNo: **EPA 6010B** **EPA 3050M** Analysis Date: **12/14/2009** SeqNo: **1841243**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	1.197	5.0						0.7100	0	20	

Sample ID: **109049-020AMS** SampType: **MS** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **12/14/2009** RunNo: **116024**
Client ID: **WB7-2** Batch ID: **60430** TestNo: **EPA 6010B** **EPA 3050M** Analysis Date: **12/14/2009** SeqNo: **1841244**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	218.747	5.0	250.0	0.7100	87.2	33	120				

Sample ID: **109049-020AMSD** SampType: **MSD** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **12/14/2009** RunNo: **116024**
Client ID: **WB7-2** Batch ID: **60430** TestNo: **EPA 6010B** **EPA 3050M** Analysis Date: **12/14/2009** SeqNo: **1841245**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	234.068	5.0	250.0	0.7100	93.3	33	120	218.7	6.77	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: 109049
Project: Plumas 70 Caribou Curve, S9300-06-108

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_SPB

Sample ID: **MB-60431A** SampType: **MBLK** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **12/14/2009** RunNo: **116025**
Client ID: **PBS** Batch ID: **60431** TestNo: **EPA 6010B** **EPA 3050M** Analysis Date: **12/14/2009** SeqNo: **1841246**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	5.0									

Sample ID: **LCS-60431** SampType: **LCS** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **12/14/2009** RunNo: **116025**
Client ID: **LCSS** Batch ID: **60431** TestNo: **EPA 6010B** **EPA 3050M** Analysis Date: **12/14/2009** SeqNo: **1841247**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	288.604	5.0	250.0	0	115	80	120				

Sample ID: **109049-031ADUP** SampType: **DUP** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **12/14/2009** RunNo: **116025**
Client ID: **EB11-1** Batch ID: **60431** TestNo: **EPA 6010B** **EPA 3050M** Analysis Date: **12/14/2009** SeqNo: **1841258**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	1.358	5.0						0.3712	0	20	

Sample ID: **109049-031AMS** SampType: **MS** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **12/14/2009** RunNo: **116025**
Client ID: **EB11-1** Batch ID: **60431** TestNo: **EPA 6010B** **EPA 3050M** Analysis Date: **12/14/2009** SeqNo: **1841259**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	206.756	5.0	250.0	0.3712	82.6	33	120				

Sample ID: **MB-60431B** SampType: **MBLK** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **12/14/2009** RunNo: **116025**
Client ID: **PBS** Batch ID: **60431** TestNo: **EPA 6010B** **EPA 3050M** Analysis Date: **12/14/2009** SeqNo: **1841260**

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	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: 109049
Project: Plumas 70 Caribou Curve, S9300-06-108

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_SPB

Sample ID: **109049-042ADUP** SampType: **DUP** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **12/14/2009** RunNo: **116025**
Client ID: **EB15-0** Batch ID: **60431** TestNo: **EPA 6010B** **EPA 3050M** Analysis Date: **12/14/2009** SeqNo: **1841271**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	14.351	5.0						15.39	6.96	20	

Sample ID: **109049-042AMS** SampType: **MS** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **12/14/2009** RunNo: **116025**
Client ID: **EB15-0** Batch ID: **60431** TestNo: **EPA 6010B** **EPA 3050M** Analysis Date: **12/14/2009** SeqNo: **1841272**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	243.027	5.0	250.0	15.39	91.1	33	120				

Sample ID: **109049-042AMSD** SampType: **MSD** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **12/14/2009** RunNo: **116025**
Client ID: **EB15-0** Batch ID: **60431** TestNo: **EPA 6010B** **EPA 3050M** Analysis Date: **12/14/2009** SeqNo: **1841273**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	228.611	5.0	250.0	15.39	85.3	33	120	243.0	6.11	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: 109049
Project: Plumas 70 Caribou Curve, S9300-06-108

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_SPB

Sample ID: **MB-60432A** SampType: **MBLK** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **12/14/2009** RunNo: **116026**
Client ID: **PBS** Batch ID: **60432** TestNo: **EPA 6010B** **EPA 3050M** Analysis Date: **12/14/2009** SeqNo: **1841276**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	5.0									

Sample ID: **LCS-60432** SampType: **LCS** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **12/14/2009** RunNo: **116026**
Client ID: **LCSS** Batch ID: **60432** TestNo: **EPA 6010B** **EPA 3050M** Analysis Date: **12/14/2009** SeqNo: **1841277**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	288.148	5.0	250.0	0	115	80	120				

Sample ID: **109049-052ADUP** SampType: **DUP** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **12/14/2009** RunNo: **116026**
Client ID: **WB18-1** Batch ID: **60432** TestNo: **EPA 6010B** **EPA 3050M** Analysis Date: **12/14/2009** SeqNo: **1841288**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	4.342	5.0						4.847	0	20	

Sample ID: **109049-052AMS** SampType: **MS** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **12/14/2009** RunNo: **116026**
Client ID: **WB18-1** Batch ID: **60432** TestNo: **EPA 6010B** **EPA 3050M** Analysis Date: **12/14/2009** SeqNo: **1841289**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	231.768	5.0	250.0	4.847	90.8	33	120				

Sample ID: **MB-60432B** SampType: **MBLK** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **12/14/2009** RunNo: **116026**
Client ID: **PBS** Batch ID: **60432** TestNo: **EPA 6010B** **EPA 3050M** Analysis Date: **12/14/2009** SeqNo: **1841290**

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	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: 109049
Project: Plumas 70 Caribou Curve, S9300-06-108

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_SPB

Sample ID: **109049-062ADUP** SampType: **DUP** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **12/14/2009** RunNo: **116026**
Client ID: **WB21-2** Batch ID: **60432** TestNo: **EPA 6010B** **EPA 3050M** Analysis Date: **12/14/2009** SeqNo: **1841301**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	9.047	5.0						6.557	31.9	20	R

Sample ID: **109049-062AMS** SampType: **MS** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **12/14/2009** RunNo: **116026**
Client ID: **WB21-2** Batch ID: **60432** TestNo: **EPA 6010B** **EPA 3050M** Analysis Date: **12/14/2009** SeqNo: **1841302**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	183.356	5.0	250.0	6.557	70.7	33	120				

Sample ID: **109049-062AMSD** SampType: **MSD** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **12/14/2009** RunNo: **116026**
Client ID: **WB21-2** Batch ID: **60432** TestNo: **EPA 6010B** **EPA 3050M** Analysis Date: **12/14/2009** SeqNo: **1841303**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	222.566	5.0	250.0	6.557	86.4	33	120	183.4	19.3	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: 109049
Project: Plumas 70 Caribou Curve, S9300-06-108

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_SPB

Sample ID: **MB-60433A** SampType: **MBLK** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **12/14/2009** RunNo: **116027**
Client ID: **PBS** Batch ID: **60433** TestNo: **EPA 6010B** **EPA 3050M** Analysis Date: **12/14/2009** SeqNo: **1841305**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	5.0									

Sample ID: **LCS-60433** SampType: **LCS** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **12/14/2009** RunNo: **116027**
Client ID: **LCSS** Batch ID: **60433** TestNo: **EPA 6010B** **EPA 3050M** Analysis Date: **12/14/2009** SeqNo: **1841306**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	277.556	5.0	250.0	0	111	80	120				

Sample ID: **109049-065ADUP** SampType: **DUP** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **12/14/2009** RunNo: **116027**
Client ID: **WB22-2** Batch ID: **60433** TestNo: **EPA 6010B** **EPA 3050M** Analysis Date: **12/14/2009** SeqNo: **1841310**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	4.567	5.0						3.919	0	20	

Sample ID: **109049-065AMS** SampType: **MS** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **12/14/2009** RunNo: **116027**
Client ID: **WB22-2** Batch ID: **60433** TestNo: **EPA 6010B** **EPA 3050M** Analysis Date: **12/14/2009** SeqNo: **1841311**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	230.668	5.0	250.0	3.919	90.7	33	120				

Sample ID: **109049-065AMSD** SampType: **MSD** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **12/14/2009** RunNo: **116027**
Client ID: **WB22-2** Batch ID: **60433** TestNo: **EPA 6010B** **EPA 3050M** Analysis Date: **12/14/2009** SeqNo: **1841312**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	202.300	5.0	250.0	3.919	79.4	33	120	230.7	13.1	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		

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: 12/10/09

Method of Transport: Client ☐ ATL ☐ CA OverN ☐ FedEx ☐ Other: GSO

Sample Condition Upon Receipt: 9.8
1. CHILLED Y ☐ N ☑ 4. SEALED Y ☐ N ☑
2. HEADSPACE (VOA) Y ☐ N ☐ NA 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: Rebecca Silva	City: Rancho Cordova	State: CA Zip Code: 95742	Fax: 916.852.9132

Project Name:	Project #:	Sampler: (Printed Name) / (Signature)
Plumas 70 Caribou Curve	S9300-06-108	Julio Esquivel

Relinquished by: (Signature and Printed Name) Julio Esquivel	Date: 12/8/09	Time: 1630	Received by: (Signature and Printed Name) GSO	Date: 12/8/09	Time: 1630
Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date: 12/9/09	Time: 10:16
Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:

I hereby authorize ATL to perform the work indicated below:
Project Mgr /Submitter: Rebecca Silva
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 billing per contract 03A1368
* 5-day TAT
Please copy Kari Cook on the results and EDF reports and include an excel file. Thank you. (cook@geoconinc.com)

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

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

Circle or Add Analysis(es) Requested

SPECIFY APPROPRIATE MATRIX

PRESERVATION

Q A / Q C
RTNE ☐ CT ☑
SWRCB ☐ Logcode
OTHER

ITEM	LAB USE ONLY: Batch # / Lab No.	Sample Description: Sample ID / Location	Date	Time	8081A (Pesticides)	8082 (PCB)	8260B (Volatiles)	8270C (BNA)	6010B (Total Metal)	8015B (GRO) / 8020 (BTEX)	8015M (TPHd and TPHmo)	8021 (BTEX)	TITLE 22 / CAM 17 (6010 / 7000)	Gasoline Package	TOTAL LEAD (6010B)	pH	SVOCs (8270C)	SOIL	WATER	GROUND WATER	WASTEWATER	CARBON	TAT	Container(s) #	Container(s) Type	REMARKS
	1090479-01	EB1-0	12/4/2009	900										X				X						5-day	Brass
	-2	EB1-1		931																					
	-3	EB1-2		932																					
	-4	EB2-0		922																					
	-5	EB2-1		923																					
	-6	EB2-2		924																					
	-7	EB3-0		930																					
	-8	EB3-1		931																					
	-9	EB3-2		932																					
	-10	EB4-0		938																					

- 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=Pint J=Jar B=Tedlar G=Glass P=Plastic M=Metal

Preservatives:
H=HCl $N=HNO_3$ $S=H_2SO_4$ C=4°C
$Z=Zn(AC)_2$ O=NaOH $T=Na_2S_2O_3$

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 Consultants, Inc
Address: 3160 Gold Valley Drive, Suite 800
Tel: 916.852.9118
Attention: Rebecca Silva
City: Rancho Cordova State: CA Zip Code: 95742
Fax: 916.852.9132

Project Name:	Project #:	Sampler: (Printed Name)	(Signature)
Plumas 70 Caribou Curve	S9300-06-108	Julio Esquivel	

Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:
Julio Esquivel	12/8/09	1630	GSO	12/8/09	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: Rebecca Silva
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 billing per contract 03A1368

Please copy Kari Cook on the results and EDF reports and include an excel file. Thank you. (cook@geoconinc.com)

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

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

Circle or Add Analysis(es) Requested

SPECIFY APPROPRIATE MATRIX

PRESERVATION

QA/QC
RTNE ☐ CT ☑
SWRCB ☐ Logcode _____
OTHER _____

ITEM	LAB USE ONLY: Batch # / Lab No.	Sample Description: Sample ID / Location	Date	Time	8081A (Pesticides)	8082 (PCB)	8260B (Volatiles)	8270C (BNA)	6010B (Total Metal)	8015B (GRO) / 8020 (BTEX)	8015M (TPHd and TPHmo)	8021 (BTEX)	TITLE 22 / CAM 17 (6010 / 7000)	Gasoline Package	TOTAL LEAD (6010B)	pH	SVOCs (8270C)	SOIL	WATER	GROUND WATER	WASTEWATER	CARBON	TAT	Container(s) #	Container(s) Type	REMARKS
	109044 - 11	EB4-1	12/4/2009	939										X				X						5day	1 bagge	
	12	~~EB5~~ EB5-0		~~945~~																						
	13	EB5-1		946																						
	14	EB5-2		947																						
	15	WB6-0		1012																						
	16	WB6-1		1013																						
	17	WB6-2		1014																						
	18	WB7-0		1024																						
	19	WB7-1		1025																						
	20	WB7-2		1026																						

- 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=Pint J=Jar B=Tedlar G=Glass P=Plastic M=Metal

Preservatives:
H=HCl $N=HNO_3$ $S=H_2SO_4$ C=4°C
$Z=Zn(AC)_2$ O=NaOH $T=Na_2S_2O_3$

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 Consultants, Inc
Address: 3160 Gold Valley Drive, Suite 800
Tel: 916.852.9118
Attention: Rebecca Silva
City: Rancho Cordova State: CA Zip Code: 95742
Fax: 916.852.9132

Project Name: Plumas 70 Caribou Curve
Project #: S9300-06-108
Sampler: (Printed Name) Julio Esquivel (Signature)

Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:
Julio Esquivel	12/8/09	1630	GSO	12/9/09	1630

I hereby authorize ATL to perform the work indicated below:
Project Mgr /Submitter: Rebecca Silva
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 billing per contract 03A1368

Please copy Kari Cook on the results and EDF reports and include an excel file. Thank you. (cook@geoconinc.com)

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

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

Circle or Add Analysis(es) Requested

SPECIFY APPROPRIATE MATRIX

PRESERVATION

QA/QC: RTNE ☐ CT ☑ SWRCB Logcode _____ OTHER _____

ITEM	LAB USE ONLY: Batch # / Lab No.	Sample Description: Sample ID / Location	Date	Time	8081A (Pesticides)	8082 (PCB)	8260B (Volatiles)	8270C (BNA)	6010B (Total Metal)	8015B (GRO) / 8020 (BTEX)	8015M (TPHd and TPHmo)	8021 (BTEX)	TITLE 22 / CAM 17 (6010 / 7000)	Gasoline Package	TOTAL LEAD (6010B)	pH	SVOCs (8270C)	SOIL	WATER	GROUND WATER	WASTEWATER	CARBON	TAT	Container(s) #	Container(s) Type	REMARKS
	W0407 21	PC1	12/4/2009	1035										X					Paint				5day	1	Jagg
	22	WB5-0		1038													X								
	23	WB8-1		1039																					
	24	WB7-0		1046																					
	25	WB9-1		1047																					
	26	WB9-2		1048																					
	27	WB10-0		1053																					
	28	WB10-1		1054																					
	29	WB10-2		1055																					
	30	EB11-0		1128																					

- 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=Pint J=Jar B=Tedlar G=Glass P=Plastic M=Metal

Preservatives: H=HCl $N=HNO_3$ $S=H_2SO_4$ C=4°C $Z=Zn(AC)_2$ O=NaOH $T=Na_2S_2O_3$

CHAIN OF CUSTODY RECORD

4 of 7

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 Consultants, Inc
Address: 3160 Gold Valley Drive, Suite 800
Tel: 916.852.9118
Attention: Rebecca Silva
City: Rancho Cordova State: CA Zip Code: 95742
Fax: 916.852.9132

Project Name:	Project #:	Sampler: (Printed Name)	(Signature)
Plumas 70 Caribou Curve	S9300-06-108	Julio Esquivel	

Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:
Julio Esquivel	12/8/09	1630	GSO	12/8/09	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: Rebecca Silva
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 billing per contract 03A1368

Please copy Kari Cook on the results and EDF reports and include an excel file. Thank you. (cook@geoconinc.com)

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

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

Circle or Add Analysis(es) Requested

SPECIFY APPROPRIATE MATRIX

PRESERVATION

Q A / Q C
RTNE ☐
CT ☑
SWRCB ☐ Logcode _____
OTHER _____

ITEM	LAB USE ONLY: Batch # / Lab No.	Sample Description: Sample ID / Location	Date	Time	8081A (Pesticides)	8082 (PCB)	8260B (Volatiles)	8270C (BNA)	6010B (Total Metal)	8015B (GRO) / 8020 (BTEX)	8015M (TPHd and TPHmo)	8021 (BTEX)	TITLE 22 / CAM 17 (6010 / 7000)	Gasoline Package	TOTAL LEAD (6010B)	pH	SVOCs (8270C)	SOIL	WATER	GROUND WATER	WASTEWATER	CARBON	TAT	Container(s) #	Container(s) Type	REMARKS
	609047-31	EB11-1	12/4/2009	1129										X				X						5 day	1	bigge
	32	EB11-2		1130																						
	33	EB12-0		1152																						
	34	EB12-1		1153																						
	35	EB12-2		1154																						
	36	EB13-0		1215																						
	37	EB13-1		1216																						
	38	EB14-0		1228																						
	39	EB14-1		1229																						
	40	EB14-2		1230																						

- 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=Pint J=Jar B=Tedlar G=Glass P=Plastic M=Metal

Preservatives:
H=HCl N=HNO_3 S=H_2SO_4 C=4°C
Z=$Zn(AC)_2$ O=NaOH T=$Na_2S_2O_3$

CHAIN OF CUSTODY RECORD

5 of 7

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 Consultants, Inc
Address: 3160 Gold Valley Drive, Suite 800
Tel: 916.852.9118
Attention: Rebecca Silva
City: Rancho Cordova State: CA Zip Code: 95742
Fax: 916.852.9132

Project Name: Plumas 70 Caribou Curve
Project #: S9300-06-108
Sampler: (Printed Name) Julio Esquivel (Signature)

Relinquished by: (Signature and Printed Name) Julio Esquivel Date: 12/8/09 Time: 1630
Received by: (Signature and Printed Name) GSO Date: 12/8/09 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: Rebecca Silva
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 billing per contract 03A1368

Please copy Kari Cook on the results and EDF reports and include an excel file. Thank you. (cook@geoconinc.com)

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

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

Circle or Add Analysis(es) Requested

SPECIFY APPROPRIATE MATRIX

PRESERVATION

Q A / Q C
RTNE ☐
CT ☑
SWRCB Logcode_____
OTHER _____

ITEM	LAB USE ONLY: Batch # / Lab No.	Sample Description: Sample ID / Location	Date	Time	8081A (Pesticides)	8082 (PCB)	8260B (Volatiles)	8270C (BNA)	6010B (Total Metal)	8015B (GRO) / 8020 (BTEX)	8015M (TPHd and TPHmo)	8021 (BTEX)	TITLE 22 / CAM 17 (6010 / 7000)	Gasoline Package	TOTAL LEAD (6010B)	pH	SVOCs (8270C)	SOIL	WATER	GROUND WATER	WASTEWATER	CARBON	Container(s) TAT	#	Type	REMARKS
	1047 - 41	PC2	12/4/2009	1239										X					PAINT				5day	1	bagge	
	42	EB15-0		1246														X								
	43	EB15-1		1247																						
	44	EB15-2		1248																						
	45	WB16-0		1300																						
	46	WB16-1		1301																						
	47	WB16-2		1302																						
	48	WB17-0		1315																						
	49	WB17-1		1316																						
	50	WB17-2		1317																						

- 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=Pint J=Jar B=Tedlar G=Glass P=Plastic M=Metal

Preservatives:
H=HCl N=HNO_3 S=H_2SO_4 C=4°C
Z=$Zn(AC)_2$ O=NaOH T=$Na_2S_2O_3$

CHAIN OF CUSTODY RECORD

6 of 7

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 Consultants, Inc
Address: 3160 Gold Valley Drive, Suite 800
Tel: 916.852.9118
Attention: Rebecca Silva
City: Rancho Cordova State: CA Zip Code: 95742
Fax: 916.852.9132

Project Name: Plumas 70 Caribou Curve
Project #: S9300-06-108
Sampler: (Printed Name) Julio Esquivel (Signature)

Relinquished by: (Signature and Printed Name) Julio Esquivel Date: 12/8/09 Time: 1630
Received by: (Signature and Printed Name) GSO Date: 12/8/09 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: Rebecca Silva
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 billing per contract 03A1368

Please copy Kari Cook on the results and EDF reports and include an excel file. Thank you. (cook@geoconinc.com)

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

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

Circle or Add Analysis(es) Requested

SPECIFY APPROPRIATE MATRIX

PRESERVATION

QA/QC
RTNE ☐
CT ☑
SWRCB ☐ Logcode _____
OTHER _____

ITEM	LAB USE ONLY: Batch # / Lab No.	Sample Description: Sample ID / Location	Date	Time	8081A (Pesticides)	8082 (PCB)	8260B (Volatiles)	8270C (BNA)	6010B (Total Metal)	8015B (GRO) / 8020 (BTEX)	8015M (TPHd and TPHmo)	8021 (BTEX)	TITLE 22 / CAM 17 (6010 / 7000)	Gasoline Package	TOTAL LEAD (6010B)	pH	SVOCs (8270C)	SOIL	WATER	GROUND WATER	WASTEWATER	CARBON	TAT	Container(s) #	Container(s) Type	REMARKS
	[illegible]-57	WB18-0	12/4/2009	1328										X				X						5 day	1	Baggie	
	57	WB18-1		1329																						
	53	WB18-2		1330																						
	54	WB19-0		1342																						
	55	WB19-1		1343																						
	56	WB19-2		1344																						
	57	WB20-0		1354																						
	58	WB20-1		1355																						
	59	WB20-2		1356																						
	60	WB21-0		1403																						

- 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=Pint J=Jar B=Tedlar G=Glass P=Plastic M=Metal

Preservatives: H=HCl $N=HNO_3$ $S=H_2SO_4$ C=4°C $Z=Zn(AC)_2$ O=NaOH $T=Na_2S_2O_3$

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 Consultants, Inc
Attention: Rebecca Silva
Address: 3160 Gold Valley Drive, Suite 800
City: Rancho Cordova State: CA Zip Code: 95742
Tel: 916.852.9118
Fax: 916.852.9132

Project Name: Plumas 70 Caribou Curve
Project #: S9300-06-108
Sampler: (Printed Name) Julio Esquivel (Signature)

Relinquished by: (Signature and Printed Name)	Date	Time	Received by: (Signature and Printed Name)	Date	Time
Julio Esquivel	12/8/09	1630	GSO	12/8/09	1630

I hereby authorize ATL to perform the work indicated below:
Project Mgr /Submitter: Rebecca Silva
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 billing per contract 03A1368

Please copy Kari Cook on the results and EDF reports and include an excel file. Thank you. (cook@geoconinc.com)

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

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

Circle or Add Analysis(es) Requested

SPECIFY APPROPRIATE MATRIX

PRESERVATION

Q A / Q C
RTNE ☐
CT ☑
SWRCB ☐ Logcode _____
OTHER _____

ITEM	LAB USE ONLY Batch #: / Lab No.	Sample Description: Sample ID / Location	Date	Time	8081A (Pesticides)	8082 (PCB)	8260B (Volatiles)	8270C (BNA)	6010B (Total Metal)	8015B (GRO) / 8020 (BTEX)	8015M (TPHd and TPHmo)	8021 (BTEX)	TITLE 22 / CAM 17 (6010 / 7000)	Gasoline Package	TOTAL LEAD (6010B)	pH	SVOCs (8270C)	SOIL	WATER	GROUND WATER	WASTEWATER	CARBON	Container(s): TAT	#	Type	REMARKS
	60947-61	WB21-1	12/4/2009	1404										X				X					5 day	1	brass	
	-62	WB21-2		1405																						
	63	WB22-D		1425																						
	64	WB22-1		1426																						
	65	WB22-2		1427																						
	-66	AC3	✓	1430														PAINT								

- 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=Pint J=Jar B=Tedlar G=Glass P=Plastic M=Metal

Preservatives:
H=HCl $N=HNO_3$ $S=H_2SO_4$ C=4°C
$Z=Zn(AC)_2$ O=NaOH $T=Na_2S_2O_3$

EMSL Analytical, Inc
2235 Polvorosa Ave , Suite 230, San Leandro, CA 94577
Phone: (510) 895-3675 Fax: (510) 895-3680 Email: milpitaslab@emsl.com

Attn: **Ian Stevenson**
Geocon Consultants
3160 Gold Valley Drive
Suite 800
Rancho Cordova, CA 95742

Fax: (916) 852-9132 Phone: (916) 852-9118
Project: **Plumas 70 / S9300-06-108**

Customer ID: GECN80
Customer PO: S9300-06-108
Received: 12/09/09 11:00 AM
EMSL Order: 090909842

EMSL Proj: S9300-06-**
Analysis Date: 12/13/2009

Test Report: PLM Analysis of Bulk Samples for Asbestos via EPA 600/R-93/116 Method with CARB 435 Prep (Milling) Level A for 0.25% Target Analytical Sensitivity

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
S1-2 *090909842-0001*	12/4/09 0750 PM 8.90	Brown Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	**None Detected**
S2-2 *090909842-0002*	12/4/09 0800 PM 8.93	Brown Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	**None Detected**
S3-1 *090909842-0003*	12/4/09 0810 PM 8.96	Brown Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	**None Detected**
S4-2 *090909842-0004*	12/4/09 0820 PM 9.0	Brown Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	**None Detected**
S5-0 *090909842-0005*	12/4/09 0830 NOA Box east	Brown Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	**<0.25% Chrysotile**
S6-2 *090909842-0006*	12/4/09 0845 NOA Box west	Brown Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	**None Detected**
WB7-2 *090909842-0007*	12/4/09 1026	Brown Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	**None Detected**
WB8-1 *090909842-0008*	12/4/09 1039	Brown Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	**None Detected**
WB9-2 *090909842-0009*	12/4/09 1048	Brown Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	**None Detected**

Analyst(s)
Grant Mays (22)

Baojia Ke, Laboratory Manager
or other approved signatory

EMSL Analytical, Inc
2235 Polvorosa Ave , Suite 230, San Leandro, CA 94577
Phone: (510) 895-3675 Fax: (510) 895-3680 Email: milpitaslab@emsl.com

Attn: **Ian Stevenson**
Geocon Consultants
3160 Gold Valley Drive
Suite 800
Rancho Cordova, CA 95742

Fax: (916) 852-9132 Phone: (916) 852-9118
Project: **Plumas 70 / S9300-06-108**

Customer ID: GECN80
Customer PO: S9300-06-108
Received: 12/09/09 11:00 AM
EMSL Order: 090909842

EMSL Proj: S9300-06-**
Analysis Date: 12/13/2009

Test Report: PLM Analysis of Bulk Samples for Asbestos via EPA 600/R-93/116 Method with CARB 435 Prep (Milling) Level A for 0.25% Target Analytical Sensitivity

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
EB11-2 *090909842-0010*	12/4/09 1130	Brown Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	**<0.25% Chrysotile**
EB12-2 *090909842-0011*	12/4/09 1154	Brown Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	**None Detected**
S7-0 *090909842-0012*	12/4/09 1210	Brown Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	**None Detected**
S8-0 *090909842-0013*	12/4/09 1225	Brown Non-Fibrous Homogeneous		99.75% Non-fibrous (other)	**0.25% Chrysotile**
EB15-2 *090909842-0014*	12/14/09 1248	Brown Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	**None Detected**
S9-0 *090909842-0015*	PM-17.48 12/4/09 1300	Brown Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	**None Detected**
WB16-2 *090909842-0016*	12/4/09 1302	Brown Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	**None Detected**
WB17-2 *090909842-0017*	12/4/09 1317	Brown Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	**None Detected**
WB18-2 *090909842-0018*	12/4/09 1330	Brown Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	**None Detected**

Analyst(s)

Grant Mays (22)

Baojia Ke, Laboratory Manager
or other approved signatory

EMSL Analytical, Inc
2235 Polvorosa Ave , Suite 230, San Leandro, CA 94577
Phone: (510) 895-3675 Fax: (510) 895-3680 Email: milpitaslab@emsl.com

Attn: **Ian Stevenson**
Geocon Consultants
3160 Gold Valley Drive
Suite 800
Rancho Cordova, CA 95742

Fax: (916) 852-9132 Phone: (916) 852-9118
Project: **Plumas 70 / S9300-06-108**

Customer ID: GECN80
Customer PO: S9300-06-108
Received: 12/09/09 11:00 AM
EMSL Order: 090909842

EMSL Proj: S9300-06-**
Analysis Date: 12/13/2009

Test Report: PLM Analysis of Bulk Samples for Asbestos via EPA 600/R-93/116 Method with CARB 435 Prep (Milling) Level A for 0.25% Target Analytical Sensitivity

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
S10-0 *090909842-0019*	12/4/09 1338	Brown Non-Fibrous Homogeneous		97.50% Non-fibrous (other)	**2.50% Chrysotile**
S11-0 *090909842-0020*	12/4/09 1435	Brown Non-Fibrous Homogeneous		98.50% Non-fibrous (other)	**1.50% Chrysotile**
S12-0 *090909842-0021*	12/14/09 1440	Brown Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	**<0.25% Chrysotile**
EB14-2 *090909842-0022*	12/14/09 1230	Brown Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	**None Detected**

Analyst(s)

Grant Mays (22)

Baojia Ke, Laboratory Manager
or other approved signatory

THIS IS THE LAST PAGE OF THE REPORT.

EMSL Analytical, Inc.

2235 Polvorosa Drive, Suite 230, San Leandro, CA 94577 • (510) 895-3675 • sanleandrolab@emsl.com

EMSL ANALYTICAL, INC.

Client: Geocon Consultants
3160 Gold Valley Drive
Suite 800
Rancho Cordova, CA 95742
Attention: Ian Stevenson
Fax: (916) 852-9132 Phone: (916) 852-9118
Project: Plumas 70 / S9300-06-108

EMSL Reference: **090909842**

Date Received: 12/09/09
Date Analyzed: 12/21/09
Date Reported 12/21/09

Asbestos Analysis of Soil Samples via Modified EPA 600/R-93/116 Method Utilizing Analytical Electron Microscopy (Section 2.5.5.2) with CARB 435 Prep (Milling) Level C for 0.01% Target Analytical Sensitivity

Client Sample ID	*EMSL Sample ID*	*Asbestos Type(s)*	*# of Asbestos Structures Detected*	*Analytical Sensitivity %*	*Asbestos Weight %*	*Comments*
S5-0	090909842-0005	Chrysotile	3	0.01	0.02	
EB11-2	090909842-0010	Chrysotile Anthophyllite Tremolite	21 14 16	0.01	1.05	1.05 is a total asbestos weight %
S8-0	090909842-0013	Chrysotile	61	0.01	0.41	
S12-0	090909842-0021	None Detected	None Detected	0.01	<0.01	

Analysts
Ken Dunbar
Rui Cindy Geng

Approved EMSL Signatory

EMSL maintains liability limited to cost of analysis. This method requires the laboratory to analyze the sample until the first fiber found compromises 5% of the total mass. Due to the size and mass of different asbestos fibers, the analytical sensitivity will vary between samples and may prevent the laboratory from achieving the target sensitivity on all samples. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL is not responsible for sample collection activities or analytical method limitations. Interpretation and use of results are the responsibility of the client.

090909842

Chain of Custody

Asbestos Lab Services

EMSL Analytical, Inc.
Suite 230
2235 Polvorosa Ave
San Leandro,
CA 94577
Phone: (510) 895-3675 (888) 455-3675
Fax: (510) 895-3680
http://www.emsl.com

Please print all information legibly.

Company:	Geocon Consultants Inc.	***Bill To:***	Geocon Consultants Inc.
Address1:	3160 Gold Valley Drive	*Address1:*	3160 Gold Valley Drive
Address2:	Suite 800	*Address2:*	Suite 800
City, State:	Rancho Cordova, CA	*City, State:*	Rancho Cordova, CA
Zip/Post Code:	95742	*Zip/Post Code:*	95742
Country:		*Country:*	
Contact Name:	Ian Stevenson	***Attn:***	Ian Stevenson
Phone:	916-852-9118	*Phone:*	916-852-9118
Fax:	916-852-9132	*Fax:*	916-852-9132
Email:	stevenson@geoconinc.com	*Email:*	stevenson@geoconinc.com
EMSL Rep:		***P.O. Number:***	
Project Name/Number:	Plumas 70 / 52300-06-108		

MATRIX			TURNAROUND			
☐ Air	☒ Soil	☐ Micro-Vac	☐ 3 Hours	☐ 6 Hours	☐ Same Day or 12 Hours*	☐ 24 Hours (1 day)
☐ Bulk	☐ Drinking Water		☐ 48 Hours (2 days)	☐ 72 Hours (3 days)	☐ 96 Hours (4 days)	☒ 120 Hours (5 days)
☐ Wipe	☐ Wastewater		☐ 144+ hours (6-10 days)			

TEM AIR, 3 hours, 6 hours, Please call ahead to schedule. There is a premium charge for 3-hour tat, please call 1-800-220-3675 for price prior to sending samples. You will be asked to sign an authorization form for this service.

***12 hours (must arrive by 11:00a.m. Mon -Fri.), Please Refer to Price Quote**

PCM - Air
- ☐ NIOSH 7400(A) Issue 2: August 1994
- ☐ OSHA w/TWA
- ☐ Other:

PLM - Bulk
- ☐ EPA 600/R-93/116
- ☐ EPA Point Count
- ☐ NY Stratified Point Count
- ☐ PLM NOB (Gravimetric) NYS 198.1
- ☐ NIOSH 9002:
- ☐ EMSL Standard Addition:

SEM Air or Bulk
- ☐ Qualitative
- ☐ Quantitative

TEM Air
- ☐ AHERA 40 CFR, Part 763 Subpart E
- ☐ NIOSH 7402
- ☐ EPA Level II

TEM BULK
- ☐ Drop Mount (Qualitative)
- ☐ Chatfield SOP - 1988-02
- ☐ TEM NOB (Gravimetric) NYS 198.4
- ☐ EMSL Standard Addition:

PLM Soil
- ☐ EPA Protocol Qualitative
- ☐ EPA Protocol Quantitative
- ☐ EMSL MSD 9000 Method fibers/gram

TEM WATER
- ☐ EPA 100.1
- ☐ EPA 100.2
- ☐ NYS 198.2

TEM Microvac/Wipe
- ☐ ASTM D 5755-95 (quantative method)
- ☐ Wipe Qualitative

XRD
- ☐ Asbestos
- ☐ Silica NIOSH 7500

OTHER
- ☒ CARB 435

See page 2 for level

Received at EMSL Analytical, Inc.
San Leandro, CA (888) 455-3675
By EMSL
Date 7/30/08 @ 1:00 am pm UPS

090909842

Chain of Custody

Asbestos Lab Services

EMSL Analytical, Inc.
Suite 230
2235 Polvorosa Ave
San Leandro,
CA 94577
Phone: (510) 895-3675 (888) 455-3675
Fax: (510) 895-3680
http://www.emsl.com

Please print all information legibly.

Client Sample # (s) S1-2 - EB14-2 **Total Samples #:** 22

Relinquished: [signature] **Date:** 12/8/09 **Time:** 0916

Received: GSO UPS **Date:** 12/8/09 **Time:** 1630

Relinquished: _____ **Date:** _____ **Time:** ~~1100~~

Received: Alanzo **Date:** 12/9/09 **Time:** ~~0945~~ UPS

Level A

SAMPLE NUMBER	SAMPLE DESCRIPTION/LOCATION	VOLUME (if applicable)
S1-2	12/4/09 ~~AM~~ 0750 PM 8.9B	
S2-2	12/4/09 0800 PM 8.7B	
S3-1	12/4/09 0810 PM 8.9b	
S4-2	12/4/09 0820 PM 9.0	
S5-0	12/4/09 0830 NO4 Box East	
S6-2	12/4/09 0845 NO.4 Box West	
WB7-2	12/4/09 ~~1004~~ 1026	
WB8-1	12/4/09 1039	
WB9-2	12/4/09 1048	
EB11-2	12/4/09 1130	
EB12-2	12/4/09 1154	
S7-0	12/4/09 1210	
S8-0	12/4/09 1225	
EB15-2	12/14/09 1248	

090909842

Chain of Custody

Asbestos Lab Services

EMSL Analytical, Inc.
Suite 230
2235 Polvorosa Ave
San Leandro,
CA 94577
Phone: (510) 895-3675 (888) 455-3675
Fax: (510) 895-3680
http://www.emsl.com

Please print all information legibly.

Client Sample # (s)_____ - _____ Total Samples #:_____

Relinquished:_____ Date:_____ Time:_____

Received: A Lenzarey Date: 11/9/09 Time: 1100 UPS

Relinquished:_____ Date:_____ Time:_____

Received:_____ Date:_____ Time:_____

Level 6A

SAMPLE NUMBER	SAMPLE DESCRIPTION/LOCATION	VOLUME (if applicable)
S9-0	PM-17.48 12/4/09 1300	
WB16-2	12/4/09 1302	
WB17-2	12/4/09 1317	
WB18-2	12/4/09 1330	
S10-0	12/4/09 1338	
S11-0	12/4/09 1435	
S12-0	12/14/09 1440	
EB14-2	12/14/09 1230	

APPENDIX B

DESCRIPTION OF DATA SET

Project Name:	Highway 70 Post Mile 8.9 to 9.2
Project No.:	S9300-06-108
Sample Interval:	0.0 to 1.0 ft

DATA SET STATISTICS

Number of Valid Samples	10
Number of Distinct Samples	6
Minimum	2.5
Maximum	32
Mean	10.88
Median	4.9
Standard Deviation	11.68948245
Variance	136.644
Coefficient of Variation	1.074400961
Skewness	1.197896989
Mean of log data	1.852385763
Standard Deviation of log data	1.085140622
90% Non-parametric UCLs	
Standard Bootstrap UCL	15.36434984
95% Non-parametric UCLs	
Standard Bootstrap UCL	16.66217967

DESCRIPTION OF DATA SET

Project Name:	Highway 70 Post Mile 8.9 to 9.2
Project No.:	S9300-06-108
Sample Interval:	1.0 to 2.0 ft

DATA SET STATISTICS

Number of Valid Samples	10
Number of Distinct Samples	5
Minimum	2.5
Maximum	14
Mean	6.25
Median	2.5
Standard Deviation	5.034602
Variance	25.347222
Coefficient of Variation	0.805536
Skewness	0.716276
Mean of log data	1.532672
Standard Deviation of log data	0.805876
90% Non-parametric UCLs	
Standard Bootstrap UCL	8.180985594
95% Non-parametric UCLs	
Standard Bootstrap UCL	8.745960762

DESCRIPTION OF DATA SET

Project Name:	Highway 70 Post Mile 8.9 to 9.2
Project No.:	S9300-06-108
Sample Interval:	2.0 to 3.0 ft

DATA SET STATISTICS

Number of Valid Samples	8
Number of Distinct Samples	2
Minimum	2.5
Maximum	13
Mean	3.8125
Median	2.5
Standard Deviation	3.712311
Variance	13.781250
Coefficient of Variation	0.973721
Skewness	2.828427
Mean of log data	1.122373
Standard Deviation of log data	0.582889
90% Non-parametric UCLs	
Standard Bootstrap UCL	5.399944185
95% Non-parametric UCLs	
Standard Bootstrap UCL	5.798669208

DESCRIPTION OF DATA SET

Project Name:	Highway 70 Post Mile 17.1 to 17.5
Project No.:	S9300-06-108
Sample Interval:	0.0 to 1.0 ft

DATA SET STATISTICS

Number of Valid Samples	12
Number of Distinct Samples	12
Minimum	2.5
Maximum	49
Mean	17.35833333
Median	12.5
Standard Deviation	13.94081375
Variance	194.3462879
Coefficient of Variation	0.803119371
Skewness	1.446421922
Mean of log data	2.577308673
Standard Deviation of log data	0.797838685
90% Non-parametric UCLs	
Standard Bootstrap UCL	22.31883298
95% Non-parametric UCLs	
Standard Bootstrap UCL	23.76970162

DESCRIPTION OF DATA SET

Project Name:	Highway 70 Post Mile 17.1 to 17.5
Project No.:	S9300-06-108
Sample Interval:	1.0 to 2.0 ft

DATA SET STATISTICS

Number of Valid Samples	11
Number of Distinct Samples	9
Minimum	2.5
Maximum	61
Mean	15.35454545
Median	9
Standard Deviation	17.052939
Variance	290.802727
Coefficient of Variation	1.110612
Skewness	2.238239
Mean of log data	2.295759
Standard Deviation of log data	0.961507
90% Non-parametric UCLs	
Standard Bootstrap UCL	21.83464717
95% Non-parametric UCLs	
Standard Bootstrap UCL	23.4763648

DESCRIPTION OF DATA SET

Project Name:	Highway 70 Post Mile 17.1 to 17.5
Project No.:	S9300-06-108
Sample Interval:	2.0 to 3.0 ft

DATA SET STATISTICS

Number of Valid Samples	12
Number of Distinct Samples	8
Minimum	2.5
Maximum	18
Mean	6.75
Median	6.45
Standard Deviation	4.506460
Variance	20.308182
Coefficient of Variation	0.667624
Skewness	1.395080
Mean of log data	1.712258
Standard Deviation of log data	0.664786
90% Non-parametric UCLs	
Standard Bootstrap UCL	8.309203494
95% Non-parametric UCLs	
Standard Bootstrap UCL	8.800490083