**FOR CONTRACT NO.**: **02-2E0604**

# INFORMATION HANDOUT

## MATERIALS INFORMATION

AERIALLY DEPOSITED LEAD AND NATURALLY OCCURRING ASBESTOS SITE INVESTIGATION REPORT

**ROUTE: 02-Tri-36-36.7/37.1**

# AERIALLY DEPOSITED LEAD AND NATURALLY OCCURRING ASBESTOS SITE INVESTIGATION REPORT


***PREPARED FOR:***

**CALIFORNIA DEPARTMENT OF TRANSPORTATION – DISTRICT 3**
**ENVIRONMENTAL ENGINEERING OFFICE**
**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. S9300-06-97**
**TASK ORDER NO. 97, EA NO. 02-2E0600**

**AUGUST 2009**

GEOCON
CONSULTANTS, INC.
GEOTECHNICAL ■ ENVIRONMENTAL ■ MATERIALS

Project No. S9300-06-97
August 28, 2009

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

Subject: STATE ROUTE 36, POST MILE 36.7 TO 37.1
TRINITY COUNTY, CALIFORNIA
CONTRACT NO. 03A1368, TASK ORDER NO. 97, EA 02-2E0600
AERIALLY DEPOSITED LEAD AND NATURALLY OCCURRING ASBESTOS
SITE INVESTIGATION REPORT

Dear Ms. Beyer:

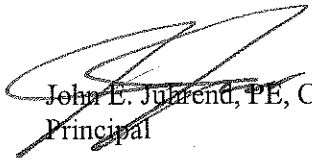
In accordance with California Department of Transportation (Caltrans) Contract No. 03A1368, Task Order No. 97, and Expense Authorization 02-2E0600, we have performed environmental engineering services at the project site. The Site consists of State Route 36 in Trinity County, California, from approximate Post Mile 36.7 to 37.1. The accompanying report summarizes the services performed including the excavation of 17 hand-auger borings for the collection of soil samples for aerially deposited lead, surface soil/weathered bedrock sampling from existing cut slopes for naturally occurring asbestos analyses, and white paint stripe sampling and analysis for lead.

*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.**



John E. Juhrend, PE, CEG
Principal


JEJ:jaj

(4 + 2CD) 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. 97, and Expense Authorization (EA) 02-2E0600.

### 1.1 Project Description and Proposed Improvements

The project area consists of the unpaved shoulders and adjacent cut slopes of State Route 36 (SR-36) from approximate Post Mile (PM) 36.7 to 37.1 (the Site), in Trinity County, California. The approximate project location is depicted on the attached Vicinity Map, Figure 1. Proposed improvements include realignment of the existing roadway (curve correction), drainage improvements, and new structural pavement section. The project limits and proposed roadway alignment are depicted on the attached Site Plan, Figure 2.

### 1.2 General Objectives

Construction of planned roadway improvements along SR-36 will require the disturbance of soil and existing pavement at the Site and may generate excess soil. The purpose of the scope of services outlined in TO No. 97 was to evaluate the Site for potential impacts due to ADL from motor vehicle exhaust in the surface and near-surface soils, the presence of NOA derived from ultramafic rock within the project boundaries, and elevated lead associated with yellow and white traffic stripe paint on the roadway. The investigative results will be used by Caltrans to inform the construction contractor if ADL- or NOA-impacted soils and/or lead-containing yellow and white traffic stripe paint are present within the project boundaries for health, safety and disposal purposes.

## 2.0 BACKGROUND

The Site is comprised of the existing Caltrans right-of-way along approximately 0.4 mile of SR-36. Caltrans requested the site investigation to provide data regarding the potential presence of ADL, NOA and lead-containing traffic paint 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 Naturally Occurring Asbestos

The construction activities proposed by Caltrans may disturb NOA-containing soil and/or rock units, if present at the Site. The California Air Resources Board (CARB) has mitigation practices for

construction, grading, quarrying and surface mining operations that may disturb natural occurrences of asbestos as outlined in Title 17 California Code of Regulations (CCR), Section 93105. NOA potentially possesses a health hazard when it becomes an airborne particulate. 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 including 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 air purifying respirators with High Efficiency Particulate Air (HEPA) filters is required during construction activities. Dust control methods similar to those in Title 17 CCR, Section 93105 are outlined in Title 17 CCR, Section 93106 for airborne asbestos in 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 17 CCR 93106 and 17 CCR 93105 if it is buried under at least 3 inches of material that does not contain NOA.

### 2.3 Potential Lead-containing Traffic Stripe Paint

Traffic stripe paint used by Caltrans may contain lead-chromate. The presence of elevated levels of metals 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).

## 3.0 SCOPE OF SERVICES

The scope of services requested by Caltrans in TO No. 97 included the collection of soil samples for analysis to determine lead and asbestos content, the collection of traffic stripe paint samples to determine lead content, and the preparation of this report.

### 3.1 Pre-field Activities

- Prepared a *Health and Safety Plan* dated August 2009 to provide guidelines on the use of personal protective equipment and the health and safety procedures implemented during the field activities.
- Provided 48-hour notification to Underground Service Alert (USA Ticket No. 0239980) prior to job site mobilization.
- Retained the services of Advanced Technologies Laboratories (ATL), a Caltrans-approved and California-certified analytical laboratory, to perform the chemical analyses of samples.
- Retained the services of EMSL Inc., a Caltrans-approved analytical laboratory, to perform the asbestos analyses of samples.

## 3.2 Field Activities

On August 11, 2009, we advanced 17 hand-auger soil borings to a maximum depth of approximately 1.5 feet for the collection of ADL soil samples. Six surface soil/weathered rock samples were obtained from existing cut slopes for NOA analysis. Two samples of white traffic paint were obtained for lead analysis. The sample bags were labeled with a sample identification number, and the date and time collected, and placed in a cooler pending delivery to the analytical laboratories under chain-of-custody (COC) protocol. The sample locations were selected in the field by the Geocon field manager. Details of the field activities are presented in the following sections.

# 4.0 INVESTIGATIVE METHODS

## 4.1 ADL Investigation

Thirty soil samples were collected for lead analysis from 17 hand-auger borings (B1 through B17). The borings were advanced along the unpaved shoulders of SR-36 approximately 1 to 2 feet from the edge of pavement. Up to three soil samples were collected from each boring at approximate depth intervals of 0 to 0.5 foot, 0.5 to 1.0 foot, and 1.0 to 1.5 feet. Refusal conditions were encountered in 12 of 17 borings at depths of 0.5 and 1.0 foot. The soil samples were placed in labeled Ziploc® re-sealable plastic bags for field homogenization and delivered to ATL for lead analysis under COC protocol. Following sample collection, the borings were backfilled with the excess soil cuttings.

The position in latitude and longitude of each boring as determined using a global positioning system (GPS) are summarized on Table 1. The approximate soil boring locations are depicted on Figure 2.

## 4.2 NOA Investigation

Prior to sample collection, we conducted a reconnaissance assessment of the exposed soil and rock types present within cut slopes at the Site. Six highly weathered rock samples (NOA-1 through NOA-6) were obtained from cut slopes adjacent to hand-auger borings B3, and B10 through B14 for asbestos analysis. The co-located NOA samples were collected from the surface of the cut slopes at heights ranging from approximately 6 to 10 feet above the roadway surface. The samples were placed in labeled Ziploc® re-sealable plastic bags and delivered to EMSL for asbestos analysis under COC protocol. The NOA sample locations are shown on Figure 2.

## 4.3 Traffic Stripe Paint Sampling

Two white traffic stripe paint samples (P1 and P2) were collected using a hammer to break chips off the traffic stripe paint. Samples P1 and P2 were co-located with hand-auger borings B3 and B10, respectively. We did not collect samples of the yellow center-line paint since this traffic striping was newly painted the previous day. The paint samples were placed in labeled Ziploc® re-sealable plastic bags and delivered to ATL for lead analysis under COC protocol.

## 4.4 Traffic Control

Caltrans provided roadway traffic closure during the field sampling activities including use of advance warning signs, flagman and an escort vehicle.

## 4.5 Quality Assurance/Quality Control Procedures

QA/QC procedures were performed during the field exploration activities. These procedures included the decontamination of sampling equipment before each sample was collected and providing COC documentation for each sample submitted to the laboratory. The soil sampling equipment was cleansed between each boring by washing the equipment with an Alconox® solution followed by a double rinse with deionized water. The 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 laboratory, the COC documentation was reviewed for accuracy and completeness. Copies of the laboratory reports and COC documentation are presented in Appendix A.

### 4.6.1 Aerially Deposited Lead Samples

The soil samples collected from the ADL borings were submitted to ATL for the following analysis under expedited five-day turn-around-time (TAT):

- Total lead following United States Environmental Protection Agency (EPA) Test Method 6010B.
- Two randomly selected soil samples were analyzed for soil pH using EPA Test Method 9045C.

### 4.6.2 Naturally Occurring Asbestos Samples

Six NOA samples were submitted to EMSL for asbestos fiber analysis under expedited five-day TAT. EMSL analyzed the samples for asbestos using polarized light microscopy (PLM) by CARB Method 435 (CARB 435). 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.

### 4.6.3 Traffic Stripe Paint Samples

Two traffic paint samples were submitted to ATL for lead analysis following EPA Test Method 6010B under expedited five-day TAT.

### 4.6.4 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 various metals analyses included the following:

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

# 5.0 FIELD OBSERVATIONS AND INVESTIGATIVE RESULTS

## 5.1 Field Observations

The soils encountered during the advancement of the hand-auger borings were generally composed of dark brown clayey silt with gravel. Rock types observed within the existing roadway cut slopes consisting of blocky, highly weathered metavolcanics did not appear to have characteristic features indicative of a rock-type in which NOA is likely to be present. Stained/odorous soil or groundwater was not encountered during the field sampling activities.

## 5.2 ADL Soil Analytical Results

Total lead was detected in 16 of the 30 soil samples analyzed at concentrations ranging from 5.1 to 18 mg/kg. WET soluble lead testing was not performed since none of the soil samples had reported total lead concentrations greater than 50 mg/kg (ten times the STLC value for lead of 5.0 mg/l). Soil pH values were reported at 7.4 and 7.5.

A summary of the ADL soil sample analytical results are presented in Table 1. The ATL laboratory report and COC documentation are presented in Appendix A.

## 5.3 NOA Results

Six highly weathered rock samples were analyzed by EMSL for asbestos by the PLM method using the CARB 435 sample preparation method. None of the six samples submitted for asbestos analysis were reported to contain asbestos at or greater than the PLM laboratory method detection limit of 0.25%. The analytical laboratory reported each of the samples as 100% non-fibrous.

A summary of the NOA soil sample analytical results are presented in Table 2. The EMSL laboratory report and COC documentation are presented in Appendix A.

## 5.4 Traffic Paint Analytical Results

Total lead was only detected in one of two paint samples analyzed at a concentration of 4.0 mg/kg. A summary of the paint sample analytical results are presented in Table 3. The ATL laboratory report and COC documentation are presented in Appendix A.

## 5.5 Laboratory Quality Assurance/Quality Control (QA/QC)

The ATL laboratory QA/QC report shows acceptable surrogate recoveries and non-detect results for the method blanks. The ATL Case Narrative "RPD for Duplicate (DUP) is outside criteria for samples 106876-011ADUP and 106876-032ADUP; however, the Laboratory Control Sample (LCS) validated the analytical batch." The report showed acceptable recoveries and RPDs for the matrix spikes (MSs) and matrix spike duplicates (MSDs). Based on this limited data review, no additional qualifications of the ATL data are necessary, and the data are of sufficient quality for the purposes of this report.

# 6.0 CONCLUSIONS AND RECOMMENDATIONS

## 6.1 Aerially Deposited Lead

Soil materials excavated to a maximum sampling depth of 1.5 feet within the project boundaries will not require special soil handling and disposal procedures based on lead content and can be reused or disposed as non-hazardous soil since the reported total lead values are less than 50 mg/kg.

## 6.2 Naturally Occurring Asbestos

The Site is located within a geologic area where NOA minerals are known to occur. However, geologic materials likely to contain asbestos at regulated levels were not observed on the Site, and the samples submitted for analysis were not reported to contain asbestos at or greater than the regulatory threshold of 0.25% by the PLM method. Based on the observed and the lack of reported asbestos at the Site, engineering controls to minimize the aerial dispersion of NOA should not be required.

Since ultramafic rocks occur within close proximity of the Site, we recommend that any materials transported to the Site for fill (if derived from an area likely to contain ultramafic rock) or if differing geologic materials are encountered during roadway improvement grading operations, that these materials be evaluated for the presence of NOA.

## 6.3 Traffic Stripe Paint

The white 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 white traffic stripe paint was reported to contain lead at 4.0 mg/kg or less, significantly below the California hazardous waste threshold of 1,000 mg/kg.

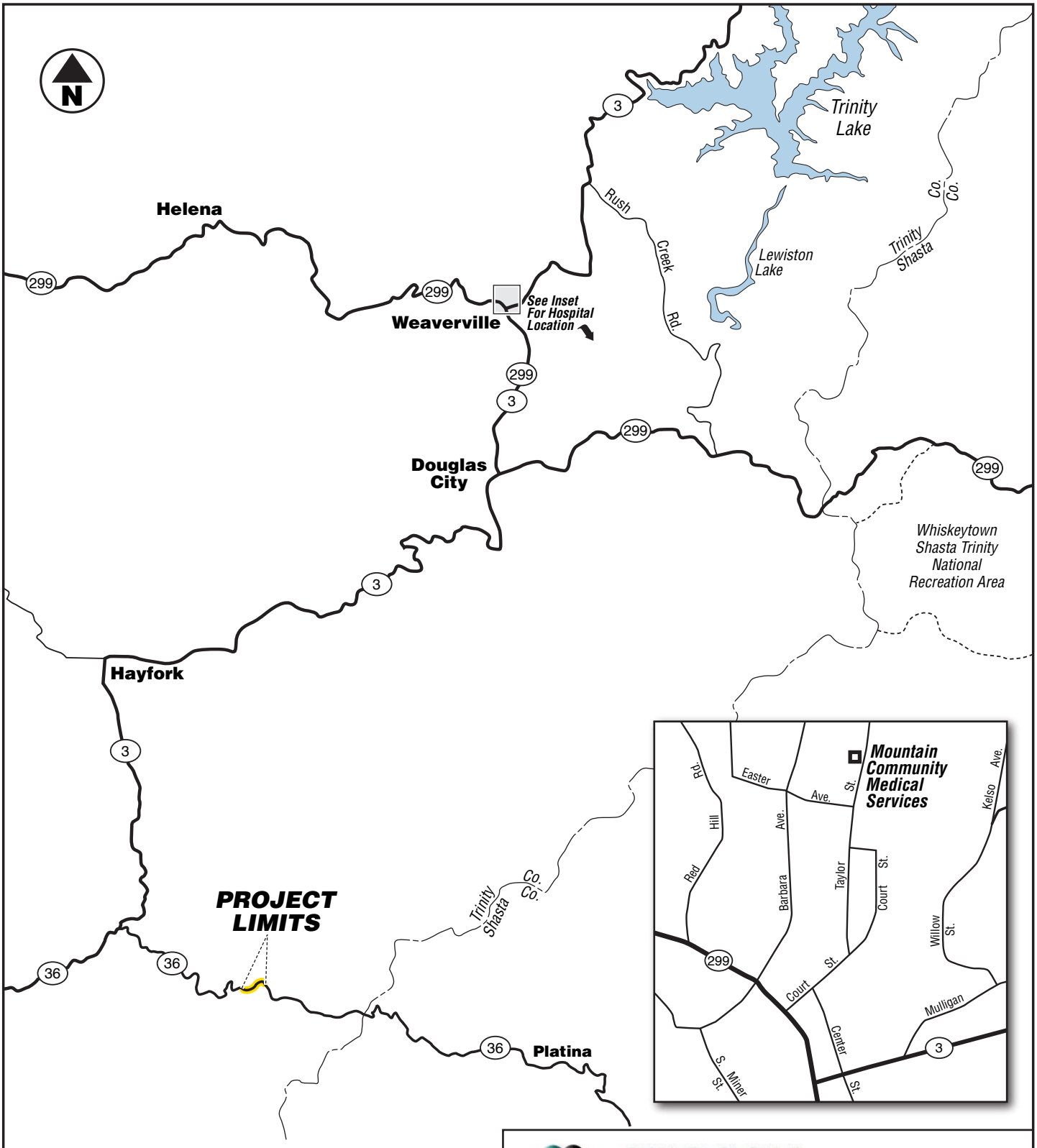
## 6.4 Worker Protection

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-containing 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-containing soil.

## 7.0 REPORT LIMITATIONS

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

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




GEOCON CONSULTANTS, INC.
3160 GOLD VALLEY DR – SUITE 800 – RANCHO CORDOVA, CA 95742
PHONE 916.852.9118 – FAX 916.852.9132

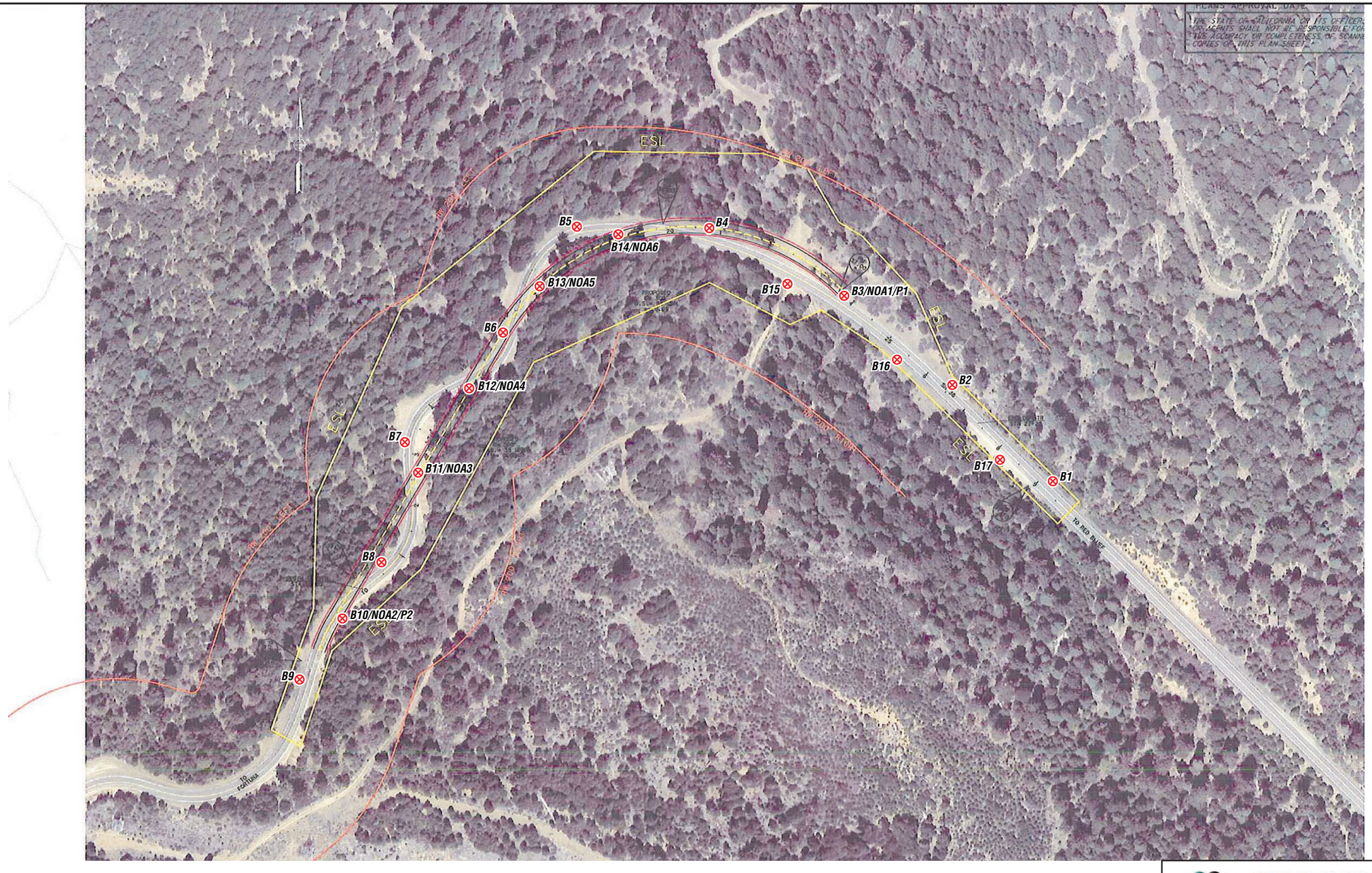
State Route 36 PM 36.7 to 37.1

Trinity County, California

**VICINITY MAP**

GEOCON Proj. No. S9300-06-97

Task Order No. 97, EA 02-2E0600 | August 2009 | Figure 1




LEGEND:

- B1 ⊗ Approximate Hand-Auger Boring Location
- NOA1 Co-Located Cut Slope Surface Sample for Naturally Occurring Asbestos
- P1 Co-Located White Paint Stripe Sample

0 200
Scale in Feet

GEOCON
CONSULTANTS, INC.
3160 GOLD VALLEY DR – SUITE 800 – RANCHO CORDOVA, CA 95742
PHONE 916.852.9118 – FAX 916.852.9132

State Route 36 PM 36.7 to 37.1

| | | |
|---|---|---|
| Trinity County, California | **SITE PLAN** | |
| GEOCON Proj. No. S9300-06-97 | | |
| Task Order No. 97, EA 02-2E0600 | August 2009 | Figure 2 |


Photo No. 1 View of General Site Conditions


Photo No. 2 View of Typical Co-Located Sampling Locations

**PHOTOS NO. 1 & 2**

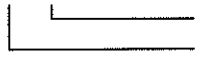
GEOCON
CONSULTANTS, INC.
3160 GOLD VALLEY DR – SUITE 800 – RANCHO CORDOVA, CA 95742
PHONE 916.852.9118 – FAX 916.852.9132

| | |
|---|---|
| State Route 36 PM 36.7 to 37.1 | |
| GEOCON Proj. No. S9300-06-97 | Trinity County, California |
| Task Order No. 97, EA 02-2E0600 | August 2009 |

TABLE 1
SUMMARY OF SOIL BORING COORDINATES, LEAD AND SOIL pH ANALYTICAL RESULTS
STATE ROUTE 36, POST MILE 36.7 TO 37.1
TRINITY COUNTY, CALIFORNIA

| BORING ID | SAMPLE DATE | LATITUDE | LONGITUDE | TOTAL LEAD (mg/kg) | SOIL pH |
|---|---|---|---|---|---|
| B1-0 | 8/11/2009 | 40.39380 | -123.07933 | 18 | --- |
| B1-0.5 | 8/11/2009 | | | <5.0 | --- |
| B2-0 | 8/11/2009 | 40.39451 | -123.08027 | <5.0 | --- |
| B3-0 | 8/11/2009 | 40.39591 | -123.08229 | 13 | --- |
| B4-0 | 8/11/2009 | 40.39647 | -123.08368 | 10 | --- |
| B5-0 | 8/11/2009 | 40.39642 | -123.08452 | 7.4 | 7.4 |
| B5-0.5 | 8/11/2009 | | | <5.0 | --- |
| B5-1 | 8/11/2009 | | | <5.0 | --- |
| B6-0 | 8/11/2009 | 40.39573 | -123.08501 | 6.4 | --- |
| B6-0.5 | 8/11/2009 | | | 9.4 | --- |
| B6-1 | 8/11/2009 | | | 5.1 | --- |
| B7-0 | 8/11/2009 | 40.39518 | -123.08565 | 15 | --- |
| B8-0 | 8/11/2009 | 40.39449 | -123.08599 | 12 | --- |
| B9-0 | 8/11/2009 | 40.39383 | -123.08639 | <5.0 | --- |
| B10-0 | 8/11/2009 | 40.39422 | -123.08615 | 7.7 | --- |
| B10-0.5 | 8/11/2009 | | | <5.0 | --- |
| B10-1.0 | 8/11/2009 | | | <5.0 | --- |
| B11-0 | 8/11/2009 | 40.39490 | -123.08551 | 5.3 | --- |
| B12-0 | 8/11/2009 | 40.39557 | -123.08541 | <5.0 | --- |
| B12-0.5 | 8/11/2009 | | | <5.0 | --- |
| B13-0 | 8/11/2009 | 40.39602 | -123.08477 | 5.9 | --- |
| B13-0.5 | 8/11/2009 | | | <5.0 | --- |
| B13-1 | 8/11/2009 | | | <5.0 | --- |
| B14-0 | 8/11/2009 | 40.39636 | -123.08415 | 16 | --- |
| B14-0.5 | 8/11/2009 | | | <5.0 | --- |
| B15-0 | 8/11/2009 | 40.39601 | -123.08302 | 10 | --- |
| B15-0.5 | 8/11/2009 | | | <5.0 | 7.5 |
| B15-1 | 8/11/2009 | | | <5.0 | --- |
| B16-0 | 8/11/2009 | 40.39550 | -123.08180 | 11 | --- |
| B17-0 | 8/11/2009 | 40.39416 | -123.08993 | 5.8 | --- |

Notes:




Sample depth in feet below ground surface
Boring identification

mg/kg = Milligrams per kilogram
< = Less than the laboratory reporting limits
--- = Not analyzed

TABLE 2
SUMMARY OF ASBESTOS ANALYTICAL RESULTS
*STATE ROUTE 36 POST MILE 36.7 to 37.1*
TRINITY COUNTY, CALIFORNIA

| SAMPLE I.D. | SAMPLE DATE | ANALYTICAL METHOD | ASBESTOS % | ASBESTOS TYPE |
|---|---|---|---|---|
| NOA-1 | 8/11/2009 | PLM | ND | None Reported |
| NOA-2 | 8/11/2009 | PLM | ND | None Reported |
| NOA-3 | 8/11/2009 | PLM | ND | None Reported |
| NOA-4 | 8/11/2009 | PLM | ND | None Reported |
| NOA-5 | 8/11/2009 | PLM | ND | None Reported |
| NOA-6 | 8/11/2009 | PLM | ND | None Reported |

Notes:
PLM = Polarized Light Microscopy
ND = Not detected

TABLE 3
SUMMARY OF TRAFFIC PAINT SAMPLE LEAD ANALYTICAL RESULTS
STATE ROUTE 36 POST MILE 36.7 TO 37.1
TRINITY COUNTY, CALIFORNIA

| SAMPLE I.D. | TOTAL LEAD (mg/kg) |
|---|---|
| P1 | 4.0 |
| P2 | <4.0 |

Notes: mg/kg = Milligrams per kilogram
< = Less than the laboratory reporting limit

# APPENDIX A

August 20, 2009

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

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

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

Workorder No.: 106876

RE: TRINITY 36, S9300-06-97

Attention: John Juhrend

Enclosed are the results for sample(s) received on August 13, 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:** TRINITY 36, S9300-06-97
**Lab Order:** 106876

# CASE NARRATIVE

Analytical Comments for Method 6010

RPD for Duplicate (DUP) is outside criteria for samples 106876-011ADUP and 106876-032ADUP; 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: 8/20/2009

## ANALYTICAL RESULTS

**LEAD BY ICP**
**EPA 6010B**

| | | | |
|---|---|---|---|
| **CLIENT:** | Geocon Consultants, Inc. | **Lab Order:** | 106876 |
| **Project:** | TRINITY 36, S9300-06-97 | **Date Received** | 8/13/2009 9:00:00 AM |
| **Project No:** | | **Matrix:** | Soil |
| **Analyte:** | Lead | **Analyst:** | SRB |

| Laboratory ID | Client Sample ID | Results | Units | QC Batch | PQL | DF | Date Collected | Date Analyzed |
|---|---|---|---|---|---|---|---|---|
| 106876-001A | B1-0 | 18 | mg/Kg | 57411 | 5.0 | 1 | 8/11/2009 | 8/18/2009 |
| 106876-002A | B1-.5 | ND | mg/Kg | 57411 | 5.0 | 1 | 8/11/2009 | 8/18/2009 |
| 106876-003A | B2-0 | ND | mg/Kg | 57411 | 5.0 | 1 | 8/11/2009 | 8/18/2009 |
| 106876-004A | B3-0 | 13 | mg/Kg | 57411 | 5.0 | 1 | 8/11/2009 | 8/18/2009 |
| 106876-006A | B4-0 | 10 | mg/Kg | 57411 | 5.0 | 1 | 8/11/2009 | 8/18/2009 |
| 106876-007A | B5-0 | 7.4 | mg/Kg | 57411 | 5.0 | 1 | 8/11/2009 | 8/18/2009 |
| 106876-008A | B5-.5 | ND | mg/Kg | 57411 | 5.0 | 1 | 8/11/2009 | 8/18/2009 |
| 106876-009A | B5-1 | ND | mg/Kg | 57411 | 5.0 | 1 | 8/11/2009 | 8/18/2009 |
| 106876-010A | B6-0 | 6.4 | mg/Kg | 57411 | 5.0 | 1 | 8/11/2009 | 8/18/2009 |
| 106876-011A | B6-.5 | 9.4 | mg/Kg | 57411 | 5.0 | 1 | 8/11/2009 | 8/18/2009 |
| 106876-012A | B6-1 | 5.1 | mg/Kg | 57411 | 5.0 | 1 | 8/11/2009 | 8/18/2009 |
| 106876-013A | B7-0 | 15 | mg/Kg | 57411 | 5.0 | 1 | 8/11/2009 | 8/18/2009 |
| 106876-014A | B8-0 | 12 | mg/Kg | 57411 | 5.0 | 1 | 8/11/2009 | 8/18/2009 |
| 106876-015A | B9-0 | ND | mg/Kg | 57411 | 5.0 | 1 | 8/11/2009 | 8/18/2009 |
| 106876-016A | B10-0 | 7.7 | mg/Kg | 57411 | 5.0 | 1 | 8/11/2009 | 8/18/2009 |
| 106876-017A | B10-.5 | ND | mg/Kg | 57411 | 5.0 | 1 | 8/11/2009 | 8/18/2009 |
| 106876-018A | B10-1 | ND | mg/Kg | 57411 | 5.0 | 1 | 8/11/2009 | 8/18/2009 |
| 106876-020A | B11-0 | 5.3 | mg/Kg | 57411 | 5.0 | 1 | 8/11/2009 | 8/18/2009 |

**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
*3275 Walnut Avenue, Signal Hill, CA 90755 Tel: 562. 989.4045 Fax: 562.989.4040*

## Advanced Technology Laboratories

Date: 8/20/2009

## ANALYTICAL RESULTS

**LEAD BY ICP**
**EPA 6010B**

| | | | |
|---|---|---|---|
| **CLIENT:** | Geocon Consultants, Inc. | **Lab Order:** | 106876 |
| **Project:** | TRINITY 36, S9300-06-97 | **Date Received** | 8/13/2009 9:00:00 AM |
| **Project No:** | | **Matrix:** | Soil |
| **Analyte:** | Lead | **Analyst:** | SRB |

| Laboratory ID | Client Sample ID | Results | Units | QC Batch | PQL | DF | Date Collected | Date Analyzed |
|---|---|---|---|---|---|---|---|---|
| 106876-021A | B12-0 | ND | mg/Kg | 57411 | 5.0 | 1 | 8/11/2009 | 8/18/2009 |
| 106876-022A | B12-.5 | ND | mg/Kg | 57411 | 5.0 | 1 | 8/11/2009 | 8/18/2009 |
| 106876-023A | B13-0 | 5.9 | mg/Kg | 57412 | 5.0 | 1 | 8/11/2009 | 8/18/2009 |
| 106876-024A | B13-.5 | ND | mg/Kg | 57412 | 5.0 | 1 | 8/11/2009 | 8/18/2009 |
| 106876-025A | B13-1 | ND | mg/Kg | 57412 | 5.0 | 1 | 8/11/2009 | 8/18/2009 |
| 106876-026A | B14-0 | 16 | mg/Kg | 57412 | 5.0 | 1 | 8/11/2009 | 8/18/2009 |
| 106876-027A | B14-.5 | ND | mg/Kg | 57412 | 5.0 | 1 | 8/11/2009 | 8/18/2009 |
| 106876-028A | B15-0 | 10 | mg/Kg | 57412 | 5.0 | 1 | 8/11/2009 | 8/18/2009 |
| 106876-029A | B15-.5 | ND | mg/Kg | 57412 | 5.0 | 1 | 8/11/2009 | 8/18/2009 |
| 106876-030A | B15-1 | ND | mg/Kg | 57412 | 5.0 | 1 | 8/11/2009 | 8/19/2009 |
| 106876-031A | B16-0 | 11 | mg/Kg | 57412 | 5.0 | 1 | 8/11/2009 | 8/19/2009 |
| 106876-032A | B17-0 | 5.8 | mg/Kg | 57412 | 5.0 | 1 | 8/11/2009 | 8/19/2009 |

**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: 8/20/2009

## ANALYTICAL RESULTS

**pH**
**EPA 9045C**

| | | | |
|---|---|---|---|
| **CLIENT:** | Geocon Consultants, Inc. | **Lab Order:** | 106876 |
| **Project:** | TRINITY 36, S9300-06-97 | **Date Received** | 8/13/2009 9:00:00 AM |
| **Project No:** | | **Matrix:** | Soil |
| **Analyte:** | pH | **Analyst:** | DDL |

| Laboratory ID | Client Sample ID | Results | Units | QC Batch | PQL | DF | Date Collected | Date Analyzed |
|---|---|---|---|---|---|---|---|---|
| 106876-007A | B5-0 | 7.4 | pH Units | R111911 | 0.10 | 1 | 8/11/2009 | 8/18/2009 |
| 106876-029A | B15-.5 | 7.5 | pH Units | R111911 | 0.10 | 1 | 8/11/2009 | 8/18/2009 |

**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

# ANALYTICAL RESULTS

**Print Date:** *20-Aug-09*

| | | | |
|---|---|---|---|
| **CLIENT:** | Geocon Consultants, Inc. | **Client Sample ID:** | P1 |
| **Lab Order:** | 106876 | **Collection Date:** | 8/11/2009 |
| **Project:** | TRINITY 36, S9300-06-97 | **Matrix:** | PAINT CHIP |
| **Lab ID:** | 106876-005A | | |

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| **ICP METALS** | | | | | | |
| | **EPA 3050B** | | | **EPA 6010B** | | |
| RunID: ICP8_090819C | QC Batch: 57437 | | | PrepDate: | 8/18/2009 | Analyst: **CL** |
| Lead | 4.0 | 4.0 | | mg/Kg | 1 | 8/19/2009 11:50 AM |

| **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

## ANALYTICAL RESULTS

**Print Date:** *20-Aug-09*

| | | | |
|---|---|---|---|
| **CLIENT:** | Geocon Consultants, Inc. | **Client Sample ID:** | P2 |
| **Lab Order:** | 106876 | **Collection Date:** | 8/11/2009 |
| **Project:** | TRINITY 36, S9300-06-97 | **Matrix:** | PAINT CHIP |
| **Lab ID:** | 106876-019A | | |

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| **ICP METALS** | | | | | | |
| | **EPA 3050B** | | | **EPA 6010B** | | |
| RunID: ICP8_090819C | QC Batch: 57437 | | | PrepDate: | 8/18/2009 | Analyst: **CL** |
| Lead | ND | 4.0 | | mg/Kg | 1 | 8/19/2009 11:54 AM |

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

**CLIENT:** Geocon Consultants, Inc.
**Work Order:** 106876
**Project:** TRINITY 36, S9300-06-97

# ANALYTICAL QC SUMMARY REPORT

**TestCode: 6010_S**

Sample ID: **MB-57437** SampType: **MBLK** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **8/18/2009** RunNo: **111946**
Client ID: **PBS** Batch ID: **57437** TestNo: **EPA 6010B** **EPA 3050B** Analysis Date: **8/19/2009** SeqNo: **1766419**

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

Sample ID: **LCS-57437** SampType: **LCS** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **8/18/2009** RunNo: **111946**
Client ID: **LCSS** Batch ID: **57437** TestNo: **EPA 6010B** **EPA 3050B** Analysis Date: **8/19/2009** SeqNo: **1766420**

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Lead | 53.773 | 1.0 | 50.00 | 0 | 108 | 80 | 120 | | | | |

Sample ID: **106909-027ADUP** SampType: **DUP** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **8/18/2009** RunNo: **111946**
Client ID: **ZZZZZZ** Batch ID: **57437** TestNo: **EPA 6010B** **EPA 3050B** Analysis Date: **8/19/2009** SeqNo: **1766424**

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Lead | 12.035 | 1.0 | | | | | | 11.79 | 2.09 | 20 | |

Sample ID: **106909-027AMS** SampType: **MS** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **8/18/2009** RunNo: **111946**
Client ID: **ZZZZZZ** Batch ID: **57437** TestNo: **EPA 6010B** **EPA 3050B** Analysis Date: **8/19/2009** SeqNo: **1766425**

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Lead | 92.376 | 1.0 | 125.0 | 11.79 | 64.5 | 33 | 120 | | | | |

Sample ID: **106909-027AMSD** SampType: **MSD** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **8/18/2009** RunNo: **111946**
Client ID: **ZZZZZZ** Batch ID: **57437** TestNo: **EPA 6010B** **EPA 3050B** Analysis Date: **8/19/2009** SeqNo: **1766426**

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Lead | 96.607 | 1.0 | 125.0 | 11.79 | 67.9 | 33 | 120 | 92.38 | 4.48 | 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:** 106876
**Project:** TRINITY 36, S9300-06-97

# ANALYTICAL QC SUMMARY REPORT

**TestCode: 6010_SPB**

| Sample ID: **MB-57411A** | SampType: **MBLK** | TestCode: **6010_SPB** | Units: **mg/Kg** | Prep Date: **8/18/2009** | RunNo: **111929** |
|---|---|---|---|---|---|
| Client ID: **PBS** | Batch ID: **57411** | TestNo: **EPA 6010B** | **EPA 3050M** | Analysis Date: **8/18/2009** | SeqNo: **1766149** |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Lead | 0.202 | 5.0 | | | | | | | | | |

| Sample ID: **LCS-57411** | SampType: **LCS** | TestCode: **6010_SPB** | Units: **mg/Kg** | Prep Date: **8/18/2009** | RunNo: **111929** |
|---|---|---|---|---|---|
| Client ID: **LCSS** | Batch ID: **57411** | TestNo: **EPA 6010B** | **EPA 3050M** | Analysis Date: **8/18/2009** | SeqNo: **1766150** |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Lead | 268.940 | 5.0 | 250.0 | 0.2022 | 107 | 80 | 120 | | | | |

| Sample ID: **106876-011A-DUP** | SampType: **DUP** | TestCode: **6010_SPB** | Units: **mg/Kg** | Prep Date: **8/18/2009** | RunNo: **111929** |
|---|---|---|---|---|---|
| Client ID: **B6-.5** | Batch ID: **57411** | TestNo: **EPA 6010B** | **EPA 3050M** | Analysis Date: **8/18/2009** | SeqNo: **1766161** |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Lead | 12.625 | 5.0 | | | | | | 9.434 | 28.9 | 20 | R |

| Sample ID: **106876-011A-MS** | SampType: **MS** | TestCode: **6010_SPB** | Units: **mg/Kg** | Prep Date: **8/18/2009** | RunNo: **111929** |
|---|---|---|---|---|---|
| Client ID: **B6-.5** | Batch ID: **57411** | TestNo: **EPA 6010B** | **EPA 3050M** | Analysis Date: **8/18/2009** | SeqNo: **1766162** |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Lead | 178.875 | 5.0 | 250.0 | 9.434 | 67.8 | 33 | 120 | | | | |

| Sample ID: **MB-57411B** | SampType: **MBLK** | TestCode: **6010_SPB** | Units: **mg/Kg** | Prep Date: **8/18/2009** | RunNo: **111929** |
|---|---|---|---|---|---|
| Client ID: **PBS** | Batch ID: **57411** | TestNo: **EPA 6010B** | **EPA 3050M** | Analysis Date: **8/18/2009** | SeqNo: **1766163** |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Lead | 0.120 | 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:** 106876
**Project:** TRINITY 36, S9300-06-97

# ANALYTICAL QC SUMMARY REPORT

**TestCode: 6010_SPB**

Sample ID: **106876-022A-DUP** SampType: **DUP** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **8/18/2009** RunNo: **111929**
Client ID: **B12-.5** Batch ID: **57411** TestNo: **EPA 6010B** **EPA 3050M** Analysis Date: **8/18/2009** SeqNo: **1766174**

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Lead | 1.888 | 5.0 | | | | | | 1.246 | 0 | 20 | |

Sample ID: **106876-022A-MS** SampType: **MS** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **8/18/2009** RunNo: **111929**
Client ID: **B12-.5** Batch ID: **57411** TestNo: **EPA 6010B** **EPA 3050M** Analysis Date: **8/18/2009** SeqNo: **1766175**

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Lead | 193.474 | 5.0 | 250.0 | 1.246 | 76.9 | 33 | 120 | | | | |

Sample ID: **106876-022A-MSD** SampType: **MSD** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **8/18/2009** RunNo: **111929**
Client ID: **B12-.5** Batch ID: **57411** TestNo: **EPA 6010B** **EPA 3050M** Analysis Date: **8/18/2009** SeqNo: **1766176**

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Lead | 183.813 | 5.0 | 250.0 | 1.246 | 73.0 | 33 | 120 | 193.5 | 5.12 | 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:** 106876
**Project:** TRINITY 36, S9300-06-97

# ANALYTICAL QC SUMMARY REPORT

**TestCode: 6010_SPB**

| Sample ID: **MB-57412A** | SampType: **MBLK** | TestCode: **6010_SPB** | Units: **mg/Kg** | Prep Date: **8/18/2009** | RunNo: **111930** |
|---|---|---|---|---|---|
| Client ID: **PBS** | Batch ID: **57412** | TestNo: **EPA 6010B** | **EPA 3050M** | Analysis Date: **8/18/2009** | SeqNo: **1766183** |

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

| Sample ID: **LCS-57412** | SampType: **LCS** | TestCode: **6010_SPB** | Units: **mg/Kg** | Prep Date: **8/18/2009** | RunNo: **111930** |
|---|---|---|---|---|---|
| Client ID: **LCSS** | Batch ID: **57412** | TestNo: **EPA 6010B** | **EPA 3050M** | Analysis Date: **8/18/2009** | SeqNo: **1766184** |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Lead | 255.107 | 5.0 | 250.0 | 0 | 102 | 80 | 120 | | | | |

| Sample ID: **106876-032A-DUP** | SampType: **DUP** | TestCode: **6010_SPB** | Units: **mg/Kg** | Prep Date: **8/18/2009** | RunNo: **111938** |
|---|---|---|---|---|---|
| Client ID: **B17-0** | Batch ID: **57412** | TestNo: **EPA 6010B** | **EPA 3050M** | Analysis Date: **8/19/2009** | SeqNo: **1766327** |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Lead | 7.680 | 5.0 | | | | | | 5.822 | 27.5 | 20 | R |

| Sample ID: **106876-032A-MS** | SampType: **MS** | TestCode: **6010_SPB** | Units: **mg/Kg** | Prep Date: **8/18/2009** | RunNo: **111938** |
|---|---|---|---|---|---|
| Client ID: **B17-0** | Batch ID: **57412** | TestNo: **EPA 6010B** | **EPA 3050M** | Analysis Date: **8/19/2009** | SeqNo: **1766328** |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Lead | 213.116 | 5.0 | 250.0 | 5.822 | 82.9 | 33 | 120 | | | | |

| Sample ID: **106876-032A-MSD** | SampType: **MSD** | TestCode: **6010_SPB** | Units: **mg/Kg** | Prep Date: **8/18/2009** | RunNo: **111938** |
|---|---|---|---|---|---|
| Client ID: **B17-0** | Batch ID: **57412** | TestNo: **EPA 6010B** | **EPA 3050M** | Analysis Date: **8/19/2009** | SeqNo: **1766329** |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Lead | 198.197 | 5.0 | 250.0 | 5.822 | 77.0 | 33 | 120 | 213.1 | 7.25 | 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:** 106876
**Project:** TRINITY 36, S9300-06-97

# ANALYTICAL QC SUMMARY REPORT

**TestCode: 9045_S**

Sample ID: **106876-029ADUP** SampType: **DUP** TestCode: **9045_S** Units: **pH Units** Prep Date: RunNo: **111911**
Client ID: **B15-.5** Batch ID: **R111911** TestNo: **EPA 9045C** Analysis Date: **8/18/2009** SeqNo: **1765815**

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| pH | 7.460 | 0.10 | | | | | | 7.480 | 0.268 | 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

Pg 1 of 4


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


**FOR LABORATORY USE ONLY:**

P.O.#: _____

Logged By: _____ Date: 8/13/09

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

Sample Condition Upon Receipt
1. CHILLED no cooler 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
Attn: JOHN IVUREND
Address: 3160 GOLD VALLEY DR. #800
City RANCHO CORDOVA State CA Zip Code 95742
TEL: (916) 852.9118 FAX: (916) 852.9132

Project Name: TRINITY 36 Project #: 59300-06-97 Sampler: (Printed Name) JOHN IVUREND (Signature)

| | | | | | |
|---|---|---|---|---|---|
| Relinquished by: (Signature and Printed Name) | Date : | Time: | Received by: (Signature and Printed Name) GOLDEN STATE | Date: 8/12/09 | Time: 1700 |
| Relinquished by: (Signature and Printed Name) | Date : | Time: | Received by: (Signature and Printed Name) Christine | Date: 08/13/09 | Time: 9:00 |
| 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:
Print Name Date
Signature

Send Report To:
Attn: _____
Co: _____
Address _____
City _____ State _____ Zip _____

Bill To:
Attn: _____
Co: _____
Address _____
City _____ State _____ Zip _____

Special Instructions/Comments:
CALTRANS 03A1368
HOMOGENIZE PRIOR TO ANALYSIS
5 DAY TAT

**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 : $1.00 / 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 I.D. / Location | Date | Time | 8081A (Pesticides) | 8082 (PCB) | 8260B (Volatiles) | 8270C (BNA) | 6010B (Total Metal) | 8015B (GRO) / 8020 (BTEX) | 8015B (DRO) | 8021 (BTEX) | TITLE 22 / CAM 17 (6010 / 7000) | TOTAL LEAD | SOIL pH | SOIL | WATER | GROUND WATER | WASTEWATER | PAINT CHIP | TAT | Container(s) # | Container(s) Type | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 106876-001 | B1-0 | 8/11/09 | 0815 | | | | | | | | | | X | | X | | | | | | 5 | 1 | 8P |
| | 2 | B1-.5 | | 0820 | | | | | | | | | | X | | X | | | | | | | | |
| | 3 | B2-0 | | 0825 | | | | | | | | | | X | | X | | | | | | | | |
| | 4 | B3-0 | | 0830 | | | | | | | | | | X | | X | | | | | | | | |
| | 5 | P1 | | 0840 | | | | | | | | | | X | | | | | X | | | | | |
| | 6 | B4-0 | | 0845 | | | | | | | | | | X | | X | | | | | | | | |
| | 7 | B5-0 | | 0850 | | | | | | | | | | X | X | X | | | | | | | | |
| | 8 | B5-.5 | | 0855 | | | | | | | | | | X | | X | | | | | | | | |
| | 9 | B5-1 | | 0900 | | | | | | | | | | X | | X | | | | | | | | |
| | 10 | B6-0 | | 0905 | | | | | | | | | | X | | X | | | | | | | | |

• TAT starts 8 a.m. following day if samples received after 3 p.m.

**TAT:** A= Overnight ≤ 24 hr 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=$Na_2S_2O_3$

DISTRIBUTION: **White** with report, **Yellow** to folder, **Pink** to submitter.

# CHAIN OF CUSTODY RECORD



*Advanced Technology Laboratories*
3275 Walnut Avenue
Signal Hill, CA 90755
(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: CALCON
Attn: JOHN JURRENS
Address:
City State Zip Code
TEL: ( )
FAX: ( )

Project Name: TRINITY 36
Project #: 59300-06-97
Sampler: (Printed Name) JOHN JURRENS (Signature)

Relinquished by: (Signature and Printed Name) Date: Time:
Received by: (Signature and Printed Name) GOLDEN STATE Date: 8/12/09 Time: 1700

Relinquished by: (Signature and Printed Name) Date: Time:
Received by: (Signature and Printed Name) Date: 8/13/09 Time: 9:00

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:
Print Name Date
Signature

Send Report To:
Attn: _____
Co: _____
Address _____
City _____ State _____ Zip _____

Bill To:
Attn: _____
Co: _____
Address _____
City _____ State _____ Zip _____

Special Instructions/Comments:
CALTRANS 03A1368
HOMOGENIZE PRIOR TO ANALYSIS
5-DAY TAT

**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 : $1.00 / ATL workorder / mo (after 1 year)

| ITEM | LAB USE ONLY: Batch #: / Lab No. | Sample Description: Sample I.D. / Location | Date | Time |
|---|---|---|---|---|
| | 106876-11 | B6-.5 | 8/11/09 | 0910 |
| | 12 | B6-1 | | 0915 |
| | 13 | B7-0 | | 0920 |
| | 14 | B8-0 | | 0925 |
| | 15 | B9-0 | | 0930 |
| | 16 | B10-0 | | 1000 |
| | 17 | B10-.5 | | 1005 |
| | 18 | B10-1 | | 1010 |
| | 19 | P2 | | 1020 |
| | 20 | B11-0 | | 1025 |

Circle or Add Analysis(es) Requested: 8081A (Pesticides) X; 8082 (PCB) X; 8260B (Volatiles) X; 8270C (BNA) X; 6010B (Total Metal) X; 8015B (GRO) / 8020 (BTEX) X; 8015B (DRO) X; 8021 (BTEX) X; TITLE 22 / CAM 17 (6010 / 7000) TOTAL LEAD X

SPECIFY APPROPRIATE MATRIX: SOIL X; WATER; GROUND WATER; WASTEWATER X; PAINT CHIP

TAT: 5 1 B 17

Container(s): # Type

PRESERVATION

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

REMARKS

- TAT starts 8 a.m. following day if samples received after 3 p.m.

TAT: A= Overnight ≤ 24 hr 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=$Na_2S_2O_3$

DISTRIBUTION: **White** with report, **Yellow** to folder, **Pink** to submitter.

# CHAIN OF CUSTODY RECORD



Advanced Technology Laboratories
3275 Walnut Avenue
Signal Hill, CA 90755
(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
Attn: JOHN JURGENS
Address:
City State Zip Code
TEL: ( )
FAX: ( )

Project Name: TRINITY 36 Project #: 59300-06-97 Sampler: (Printed Name) JOHN JURGENS (Signature)

Relinquished by: (Signature and Printed Name) Date: Time: Received by: (Signature and Printed Name) GEOCON STAFF Date: 8/12/09 Time: 1705

Relinquished by: (Signature and Printed Name) Date: Time: Received by: (Signature and Printed Name) Date: 08/12/09 Time: 9:00

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:
Print Name Date
Signature

Send Report To:
Attn: _____
Co: _____
Address _____
City _____ State _____ Zip _____

Bill To:
Attn: _____
Co: _____
Address _____
City _____ State _____ Zip _____

Special Instructions/Comments:
CAL TRANS 03A1368
HOMOGENIZE PRIOR TO ANALYSIS
5-DAY TAT

**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 : $1.00 / ATL workorder / mo (after 1 year)

Circle or Add Analysis(es) Requested: 8081A (Pesticides), 8082 (PCB), 8260B (Volatiles), 8270C (BNA), 6010B (Total Metal), 8015B (GRO) / 8020 (BTEX), 8015B (DRO), 8021 (BTEX), TITLE 22 / CAM 17 (6010 / 7000), TOTAL LEAD, SOIL pH

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

PRESERVATION

Q A / Q C: RTNE ☐ CT ☒ SWRCB ☐ Logcode _____ OTHER _____

| ITEM | LAB USE ONLY: Batch #: / Lab No. | Sample Description: Sample I.D. / Location | Date | Time | TAT | Container(s) # | Container(s) Type | REMARKS |
|---|---|---|---|---|---|---|---|---|
| | 106876-21 | B12-0 | 8/11/09 | 1035 | 5 | 1 | BP | |
| | 22 | B12-.5 | | 1040 | | | | |
| | 23 | B13-0 | | 1050 | | | | |
| | 24 | B13-.5 | | 1055 | | | | |
| | 25 | B13-1 | | 1100 | | | | |
| | 26 | B14-0 | | 1110 | | | | |
| | 27 | B14-.5 | | 1115 | | | | |
| | 28 | B15-0 | | 1125 | | | | |
| | 29 | B15-.5 | | 1130 | | | | |
| | 30 | B15-1 | | 1135 | | | | |

• TAT starts 8 a.m. following day if samples received after 3 p.m.

TAT: A= Overnight ≤ 24 hr 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=$Na_2S_2O_3$

DISTRIBUTION: **White** with report, **Yellow** to folder, **Pink** to submitter.

# CHAIN OF CUSTODY RECORD



*Advanced Technology Laboratories*
3275 Walnut Avenue
Signal Hill, CA 90755
(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
Attn: JOHN JURAND
Address:
City State Zip Code
TEL: ( )
FAX: ( )

Project Name: TRINITY 36
Project #: 5930-06-97
Sampler: (Printed Name) JOHN JURAND (Signature)

| | | | | | |
|---|---|---|---|---|---|
| Relinquished by: (Signature and Printed Name) | Date : | Time: | Received by: (Signature and Printed Name) | Date: 8/12/09 | Time: 1700 |
| Relinquished by: (Signature and Printed Name) | Date : | Time: | Received by: (Signature and Printed Name) GEOCON SAMPLE | Date: 8/13/09 | Time: 9:00 |
| 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:
Print Name Date
Signature

Send Report To:
Attn: _____
Co: _____
Address _____
City _____ State _____ Zip _____

Bill To:
Attn: _____
Co: _____
Address _____
City _____ State _____ Zip _____

Special Instructions/Comments:
CALTRANS 03A1368
HOMOGENIZE PRIOR TO ANALYSIS
5-DAY TAT

**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 : $1.00 / ATL workorder / mo (after 1 year)

Circle or Add Analysis(es) Requested: 8081A (Pesticides), 8082 (PCB), 8260B (Volatiles), 8270C (BNA), 6010B (Total Metal), 8015B (GRO) / 8020 (BTEX), 8015B (DRO), 8021 (BTEX), TITLE 22 / CAM 17 (6010 / 7000), TOTAL LEAD

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

PRESERVATION

Q A / Q C: RTNE ☐ CT ☒ SWRCB ☐ Logcode _____ OTHER _____

| ITEM | LAB USE ONLY: Batch #: / Lab No. | Sample Description: Sample I.D. / Location | Date | Time | TOTAL LEAD | SOIL | TAT | Container(s) # | Container(s) Type | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|
| | 106876-31 | B16-0 | 8/11/09 | 1140 | X | X | 5 | 1 | BP | |
| | -32 | B17-0 | ↓ | 1145 | X | X | 5 | 1 | BP | |

- TAT starts 8 a.m. following day if samples received after 3 p.m.

TAT: A= Overnight ≤ 24 hr 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=$Na_2S_2O_3$

DISTRIBUTION: **White** with report, **Yellow** to folder, **Pink** to submitter.

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: **John Juhrend**
**Geocon Consultants**
**3160 Gold Valley Drive**
**Suite 800**
**Rancho Cordova, CA 95742**

Fax: (916) 852-9132 Phone: (916) 852-9118
Project: **Trinity, 36/S9300-06-97**

Customer ID: GECN80
Customer PO: 36/S9300-06-97
Received: 08/13/09 9:45 AM
EMSL Order: 090906577

EMSL Proj: S9300-06-**
Analysis Date: 8/17/2009

## 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** |
| NOA 1<br>*090906577-0001* | 0835, Surface- Cut Slope | Tan<br>Non-Fibrous<br>Homogeneous | | 100.00% Non-fibrous (other) | **None Detected** |
| NOA 2<br>*090906577-0002* | 1015, Surface- Cut Slope | Tan<br>Non-Fibrous<br>Homogeneous | | 100.00% Non-fibrous (other) | **None Detected** |
| NOA 3<br>*090906577-0003* | 1030, Surface- Cut Slope | Tan<br>Non-Fibrous<br>Homogeneous | | 100.00% Non-fibrous (other) | **None Detected** |
| NOA 4<br>*090906577-0004* | 1045, Surface- Cut Slope | Tan<br>Non-Fibrous<br>Homogeneous | | 100.00% Non-fibrous (other) | **None Detected** |
| NOA 5<br>*090906577-0005* | 1105, Surface- Cut Slope | Tan<br>Non-Fibrous<br>Homogeneous | | 100.00% Non-fibrous (other) | **None Detected** |
| NOA 6<br>*090906577-0006* | 1120, Surface- Cut Slope | Tan<br>Non-Fibrous<br>Homogeneous | | 100.00% Non-fibrous (other) | **None Detected** |

Analyst(s)

*Grant Mays (6)*

Baojia Ke, Laboratory Manager
or other approved signatory





**THIS IS THE LAST PAGE OF THE REPORT.**

# Chain of Custody 090906577

## 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 | ***Bill To:*** | Geocon |
| *Address1:* | 3160 Gold Valley Drive | *Address1:* | 3160 Gold Valley Drive |
| *Address2:* | Suite 800 | *Address2:* | Suite 800 |
| *City, State:* | Rancho Cordova, California | *City, State:* | Rancho Cordova, California |
| *Zip/Post Code:* | 95742 | *Zip/Post Code:* | 95742 |
| *Country:* | | *Country:* | |
| ***Contact Name:*** | John Juhrend | ***Attn:*** | John Juhrend |
| *Phone:* | 916.852.9118 | *Phone:* | 916.852.9118 |
| *Fax:* | 916.852.9132 | *Fax:* | 916.852.9132 |
| *Email:* | juhrend@geoconinc.com | *Email:* | juhrend@geoconinc.com |
| ***EMSL Rep:*** DANIEL KOCHER | | ***P.O. Number:*** | |
| ***Project Name/Number:*** Trinity 36/S9300-06-97 | | | |

| MATRIX | | | TURNAROUND | | | |
|---|---|---|---|---|---|---|
| ☐ Air | ☒ Soil/rock | ☐ Micro-Vac | ☐ 3 Hours | ☐ 6 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.**

| | | |
|---|---|---|
| **PCM - Air** | **TEM Air** | **TEM WATER** |
| ☐ NIOSH 7400(A) Issue 2: August 1994 | ☐ AHERA 40 CFR, Part 763 Subpart E | ☐ EPA 100.1 |
| ☐ OSHA w/TWA | ☐ NIOSH 7402 | ☐ EPA 100.2 |
| ☐ Other: | ☐ EPA Level II | ☐ NYS 198.2 |
| **PLM - Bulk** | **TEM BULK** | **TEM Microvac/Wipe** |
| ☐ EPA 600/R-93/116 | ☐ Drop Mount (Qualitative) | ☐ ASTM D 5755-95 (quantative method) |
| ☐ EPA Point Count | ☐ Chatfield SOP - 1988-02 | ☐ Wipe Qualitative |
| ☐ NY Stratified Point Count | ☐ TEM NOB (Gravimetric) NYS 198.4 | |
| ☐ PLM NOB (Gravimetric) NYS 198.1 | ☐ EMSL Standard Addition: | **XRD** |
| ☐ NIOSH 9002: | | ☐ Asbestos |
| ☐ EMSL Standard Addition: | **PLM Soil** | ☐ Silica NIOSH 7500 |
| **SEM Air or Bulk** | ☐ EPA Protocol Qualitative | |
| ☐ Qualitative | ☐ EPA Protocol Quantitative | **OTHER** |
| ☐ Quantitative | ☐ EMSL MSD 9000 Method fibers/gram | ☒ CARB 435 TO 0.25 & LEVEL A |

Received at EMSL Analytical, Inc.
San Leandro, CA (888) 455-3675
By EMSL
Date 8/13/09 9:45 am/pm
UPS FE

Chain of Custody

EMSL Analytical, Inc.

90906577

# Asbestos Lab Services

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)** NOA 1 - NOA 6 **Total Samples #:** 6

**Relinquished:** [signature] **Date:** 8/12/09 **Time:** 1700

**Received:** Fed Ex **Date:** 8/13/09 **Time:** 0945 VPS

**Relinquished:** _____ **Date:** _____ **Time:** _____

**Received:** _____ **Date:** _____ **Time:** _____

| SAMPLE NUMBER | SAMPLE DESCRIPTION/LOCATION | VOLUME (if applicable) |
|---|---|---|
| NOA 1 | 0835 SURFACE - CUT SLOPE | |
| NOA 2 | 1015 | |
| NOA 3 | 1030 | |
| NOA 4 | 1045 | |
| NOA 5 | 1105 | |
| NOA 6 | 1120 | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |