

# INFORMATION HANDOUT

## **MATERIALS INFORMATION**

Asbestos and Lead-Containing Paint Survey  
O'Brien Safety Roadside Rest Area  
Geocon Consultants, Inc.  
Dated January 2011

**ROUTE: 02-Sha-5-R31.1**

# ASBESTOS AND LEAD-CONTAINING PAINT SURVEY



**O'Brien Safety Roadside Rest Area  
02-SHA-5 PM R31.1  
Shasta County, California**

**PREPARED FOR:**

**CALIFORNIA DEPARTMENT OF TRANSPORTATION  
DISTRICT 2  
1031 BUTTE STREET  
REDDING, CALIFORNIA 96001**



**PREPARED BY:**

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



**GEOCON PROJECT NO. S9300-06-153  
TASK ORDER NO. 153,  
E-FIS 02 0000 0610 1 (EA 02-2E8701)  
CONTRACT NO 03A1368**

**JANUARY 2011**



Project No. S9300-06-153  
January 31, 2011

Tom Graves, Task Order Manager  
Caltrans District 2  
1031 Butte Street  
Redding, California 96001

Subject: O'BRIEN SAFETY ROADSIDE REST AREA  
SHASTA COUNTY, CALIFORNIA  
CONTRACT NO. 03A1368, E-FIS 02 0000 0610 1 (EA 02-2E8701)  
TASK ORDER NO. 153, 02-SHA-5 PM R31.1  
ASBESTOS AND LEAD-CONTAINING PAINT SURVEY REPORT

Dear Mr. Graves:

In accordance with California Department of Transportation Contract No. 03A1368 and Task Order No. 153, we have performed an asbestos and lead-containing paint survey of the subject property in Shasta County, California. The scope of services included surveying the main comfort station and pre-fabricated restroom unit structures for suspect asbestos-containing materials and lead-containing paint, collecting bulk samples, and submitting the samples to laboratories for analyses.

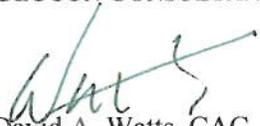
The accompanying report summarizes the services performed and laboratory analysis.

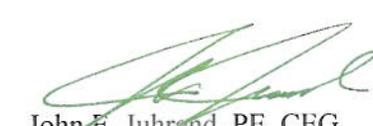
*The contents of this report reflect the views of Geocon Consultants, Inc., who are responsible for the facts and accuracy of the data presented herein. The contents do not necessarily reflect the official views or policies of the State of California or the Federal Highway Administration. This report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

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

Sincerely,

GEOCON CONSULTANTS, INC.

  
David A. Watts, CAC  
Senior Project Scientist

  
John E. Juhrend, PE, CEG  
Project Manager

(3 + 2 CDs) Addressee

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# ASBESTOS AND LEAD-CONTAINING PAINT SURVEY REPORT

## 1.0 INTRODUCTION

This asbestos and lead-containing paint (LCP) survey report was prepared by Geocon Consultants, Inc. under Caltrans Contract No. 03A1368, Task Order No. 153 (TO-153).

### 1.1 Project Description

The project consists of the O'Brien Safety Roadside Rest Area (SRRA) located at Post Mile (PM) R31.1 on northbound Interstate 5 in Shasta County, California. We performed asbestos and LCP survey activities at the main comfort station and pre-fabricated restroom unit structures. The approximate project location is depicted on the Vicinity Map, Figure 1. The approximate sample locations are depicted on the Site Plan, Figure 2.

### 1.2 General Objectives

The purpose of the scope of services outlined in TO-153 was to determine the presence and quantity of asbestos and LCP at the project location prior to planned renovation. The information obtained from this investigation will be used by Caltrans for waste profiling, determining California Occupational Safety and Health Administration (Cal/OSHA) applicability, and coordinating asbestos and LCP disturbance activities.

*It was not Geocon's intent during this inspection to conduct an evaluation of lead-based paint hazards in accordance with U.S. Department of Housing and Urban Development (HUD) guidelines.*

## 2.0 BACKGROUND

### 2.1 Asbestos

The *Code of Federal Regulations (CFR)*, 40 CFR 61, Subpart M, National Emissions Standards for Hazardous Air Pollutants (NESHAP) and Federal Occupational Safety and Health Administration (FED OSHA) classify asbestos-containing material (ACM) as any material or product that contains *greater than 1%* asbestos. Nonfriable ACM is classified by NESHAP as either Category I or Category II material defined as follows:

- **Category I** – asbestos-containing packings, gaskets, resilient floor coverings, and asphalt roofing products.
- **Category II** – all remaining types of nonfriable asbestos-containing material not included in Category I that when dry, cannot be crumbled, pulverized, or reduced to powder by hand pressure.

Regulated asbestos-containing material (RACM), a hazardous waste when friable, is classified as any manufactured material that contains *greater than* 1% asbestos by dry weight *and* is:

- Friable (can be crumbled, pulverized, or reduced to powder by hand pressure); or
- Category I material that has become friable; or
- Category I material that has been subjected to sanding, grinding, cutting, or abrading; or
- Category II nonfriable material that has a high probability of becoming crumbled, pulverized, or reduced to a powder during demolition or renovation activities.

Activities that disturb materials containing *any* amount of asbestos are subject to certain requirements of the Cal/OSHA asbestos standard contained in Title 8, CCR Section 1529. Typically, removal or disturbance of more than 100 square feet of material containing more than 0.1% asbestos must be performed by a registered asbestos abatement contractor, but associated waste labeling is not required if the material contains 1% or less asbestos. When the asbestos content of a material exceeds 1%, virtually all requirements of the standard become effective.

Materials containing more than 1% asbestos are also subject to NESHAP regulations (40 CFR Part 61, Subpart M). RACM (friable ACM and nonfriable ACM that will become friable during demolition operations) must be removed from structures prior to demolition. Certain nonfriable ACM and materials containing 1% or less asbestos may remain in structures during demolition; however, there are waste handling/disposal issues and Cal/OSHA work requirements that must be addressed. Contractors are responsible for segregating and characterizing waste streams prior to disposal.

With respect to potential worker exposure, notification, and registration requirements, Cal/OSHA defines asbestos-containing construction material (ACCM) as construction material that contains more than 0.1% asbestos (Title 8, CCR 341.6).

## **2.2 Lead Paint**

Construction activities (including demolition) that disturb materials or paints containing *any* amount of lead are subject to certain requirements of the Cal/OSHA lead standard contained in Title 8, CCR, Section 1532.1. Deteriorated paint is defined by Title 17, CCR, Division 1, Chapter 8, §35022 as a surface coating that is cracking, chalking, flaking, chipping, peeling, non-intact, failed, or otherwise separating from a substrate. Demolition of a deteriorated LCP component would require waste characterization and appropriate disposal. Intact LCP on a component is currently accepted by most landfill facilities; however, contractors are responsible for segregating and characterizing waste streams prior to disposal.

For a solid waste containing lead, the waste is classified as California hazardous when: 1) the total lead content equals or exceeds the respective Total Threshold Limit Concentration (TTLC) of 1,000 milligrams per kilogram (mg/kg); or 2) the soluble lead content equals or exceeds the respective Soluble Threshold Limit Concentration (STLC) of 5 milligrams per liter (mg/l) based on the standard Waste Extraction Test (WET). A waste has the potential for exceeding the lead STLC when the waste's total lead content is greater than or equal to ten times the respective STLC value since the WET uses a 1:10 dilution ratio. Hence, when total lead is detected at a concentration greater than or equal to 50 mg/kg, and assuming that 100 percent of the total lead is soluble, soluble lead analysis is required. Lead-containing waste is classified as "Resource, Conservation, and Recovery Act" (RCRA) hazardous, or Federal hazardous, when the soluble lead content equals or exceeds the Federal regulatory level of 5 mg/l based on the Toxicity Characteristic Leaching Procedure (TCLP).

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

Potential hazards exist to workers who remove or cut through LCP coatings during demolition. Dust containing hazardous concentrations of lead may be generated during scraping or cutting materials coated with lead-containing paint. Torching of these materials may produce lead oxide fumes. Therefore, air monitoring and/or respiratory protection may be required during the demolition of materials coated with LCP. Guidelines regarding regulatory provisions for construction work where workers may be exposed to lead are presented in Title 8, CCR, Section 1532.1.

### **2.3 Architectural Drawings and Previous Survey Activities**

We reviewed structure architectural plans provided by Caltrans prior to field activities. We observed no evidence of asbestos or lead paint use on the architectural plans provided. Previous asbestos survey reports were not available for our review.

## **3.0 SCOPE OF SERVICES**

Mr. David Watts, a California-Certified Asbestos Consultant (CAC), certification No. 98-2404 (expiration September 16, 2011), and Certified Lead Paint Inspector/Assessor and Project Monitor with the California Department of Public Health Services (DPH), certification numbers I-1734 and M-1734 (expiration December 4, 2011), performed the asbestos and LCP survey at the project location on January 20, 2011.

### 3.1 Asbestos

Suspect ACM were grouped into homogeneous areas with representative samples randomly collected from each. In addition, each potential ACM was evaluated for friability. A total of 20 bulk asbestos samples representing 11 suspect components were collected.

Our procedures for inspection and sampling in accordance with TO-153 are discussed below:

- Collected bulk asbestos samples after first wetting friable material with a light mist of water. The samples were then cut from the substrate and transferred to a labeled container. Note that when multiple samples were collected, the sampling locations were distributed throughout the homogeneous area (spaces where the material was observed).
- Relinquished bulk asbestos samples to EMSL Analytical, Inc., a California-licensed and Caltrans-approved subcontractor, for asbestos analysis in accordance with United States Environmental Protection Agency (EPA) Test Method 600/R-93/116 using polarized light microscopy (PLM) under chain-of-custody protocol. EMSL Analytical, Inc. is a laboratory accredited by the National Institute of Standards and Technology National Voluntary Laboratory Accreditation Program (NIST-NVLAP) for bulk asbestos fiber analysis. The laboratory analyses were requested on a 48-hour turn-around-time.

Sample group identification numbers, material descriptions, approximate quantities, friability assessments, and photo references are summarized on Table 1. Approximate sample locations are presented on Figure 2. Materials represented by the samples collected are shown in the attached photographs.

### 3.2 Lead Paint

Seven bulk paint samples were collected from suspect LCP observed at the project location. We did not observe deteriorated LCP during our survey. Our sampling procedures in accordance with TO-153 are discussed below:

- Collected bulk samples of suspect LCP using techniques presented in HUD guidelines. In addition, the painted areas were evaluated for evidence of deterioration such as flaking or cracking.
- Relinquished bulk LCP samples under chain-of-custody protocol to Advanced Technology Laboratories, a California-licensed and Caltrans-approved subcontractor, for lead analysis in accordance with EPA Test Method 6010B. Advanced Technology Laboratories is accredited by the DPH for lead analysis. The laboratory analysis was requested on a 48-hour turn-around-time.

Paint sample identification numbers, descriptions, peeling and flaking quantities, and photo references are summarized on Table 2. Approximate sample locations are presented on Figure 2. Materials represented by the samples collected are shown in the attached photographs.

## 4.0 INVESTIGATIVE RESULTS

### 4.1 Asbestos Analytical Results

No asbestos was detected in samples of the suspect materials collected during our survey. A summary of the analytical laboratory test results for asbestos is presented on Table 1. Reproductions of the laboratory report and chain-of-custody documentation are presented in Appendix A.

### 4.2 Paint Analytical Results

A sample representing intact blue and white traffic paint used at the east accessible parking stall exhibited a total lead concentration of 15 mg/kg.

A sample representing intact blue and white traffic paint used at the west accessible parking stall exhibited a total lead concentration of 3.9 mg/kg.

A sample representing intact brown paint used on the main comfort station exterior and interior did not contain detectable total lead above the method detection limit (MDL) of 3.1 mg/kg.

A sample representing intact beige paint used on the main comfort station exterior and interior exhibited a total lead concentration of 81 mg/kg and a WET lead concentration of 10 mg/l.

A sample representing intact tan paint used on the pre-fabricated restroom unit exterior and interior exhibited a total lead concentration of 4.5 mg/kg.

A sample representing intact beige paint used on the pre-fabricated restroom unit exterior and interior did not contain detectable total lead above the MDL of 2.7 mg/kg.

A sample representing intact red paint used on the pre-fabricated restroom unit roof did not contain detectable total lead above the MDL of 11 mg/kg.

A summary of the analytical laboratory test results for paint is presented on Table 2. Reproductions of the laboratory report and chain-of-custody documentation are presented in Appendix A.

## 5.0 RECOMMENDATIONS

Based on our findings, we recommend the following:

### 5.1 Asbestos

Since no asbestos was detected in samples collected during our survey, the Cal/OSHA asbestos standard does not apply for planned activities. In addition, demolition debris would not be considered a California hazardous waste based on asbestos content. However, written notification to U.S. EPA Region IX and the California Air Resources Board is required ten working days prior to commencement of *any* demolition activity (whether asbestos is present or not).

### 5.2 Lead Paint

Beige paint (used on the main comfort station exterior and interior) sampled during our survey would be classified as California hazardous based on lead content if it is stripped, blasted, or otherwise separated from the substrate.

The remaining LCP identified during our survey would not be considered a California or Federal hazardous waste based on lead content.

We recommend that all paints at the project location be treated as lead-containing for purposes of determining the applicability of the Cal/OSHA lead standard during any future maintenance, renovation, and demolition activities. This recommendation is based on LCP sample results and the fact that lead was a common ingredient of paints manufactured before 1978 and is still an ingredient of some paints. In accordance with Title 8, CCR, Section 1532.1(p), written notification to the nearest Cal/OSHA district office is required at least 24 hours prior to certain lead-related work. Compliance and training requirements regarding construction activities where workers may be exposed to lead are presented in Title 8, CCR, Section 1532.1, subsections (e) and (l), respectively. Contractors are responsible for segregating and characterizing waste streams prior to disposal.

## 6.0 REPORT LIMITATIONS

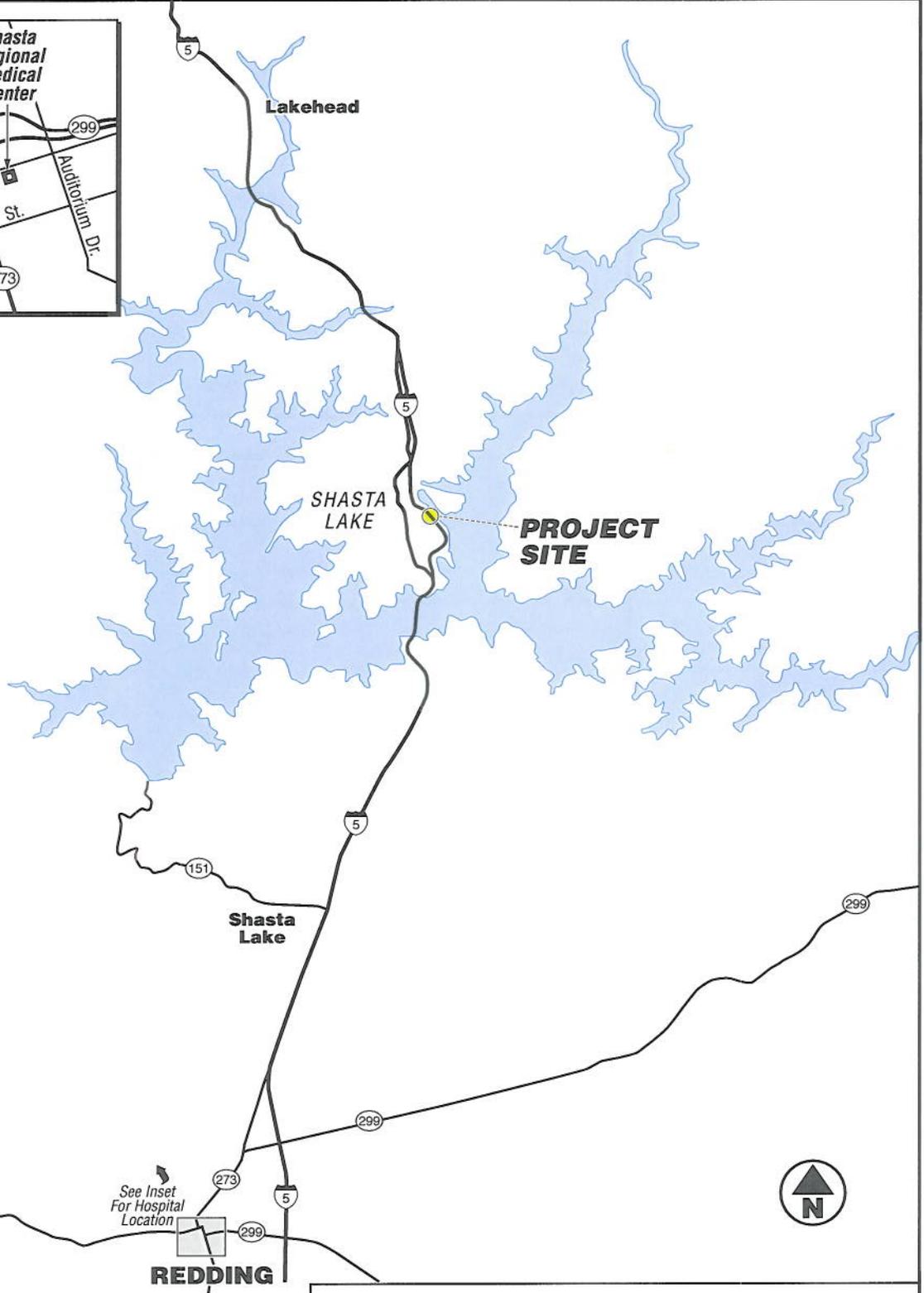
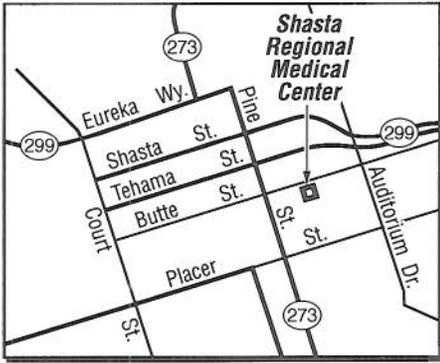
The asbestos and LCP survey was conducted in conformance with generally accepted standards of practice for identifying and evaluating asbestos and LCP in structures. The survey addressed only the structures identified in Section 1.1. Due to the nature of structure surveys, asbestos and LCP use, and laboratory analytical limitations, some ACM or LCP at the project location may not have been identified. Spaces such as cavities, voids, crawlspaces, and pipe chases may have been concealed to our investigator. Previous renovation work may have concealed or covered spaces or materials or may have partially demolished materials and left debris in inaccessible areas. Additionally, renovation activities may have partially replaced ACM with indistinguishable non-ACM. Asbestos and/or LCP may exist in areas of the structure that were not accessible or sampled in conjunction with this TO.

During renovation or demolition operations, suspect materials may be uncovered which are different from those accessible for sampling during this assessment. Personnel in charge of renovation/demolition should be alerted to note materials uncovered during such activities that differ substantially from those included in this or previous assessment reports. If suspect ACM and/or LCP are found, additional sampling and analysis should be performed to determine if the materials contain asbestos or lead.

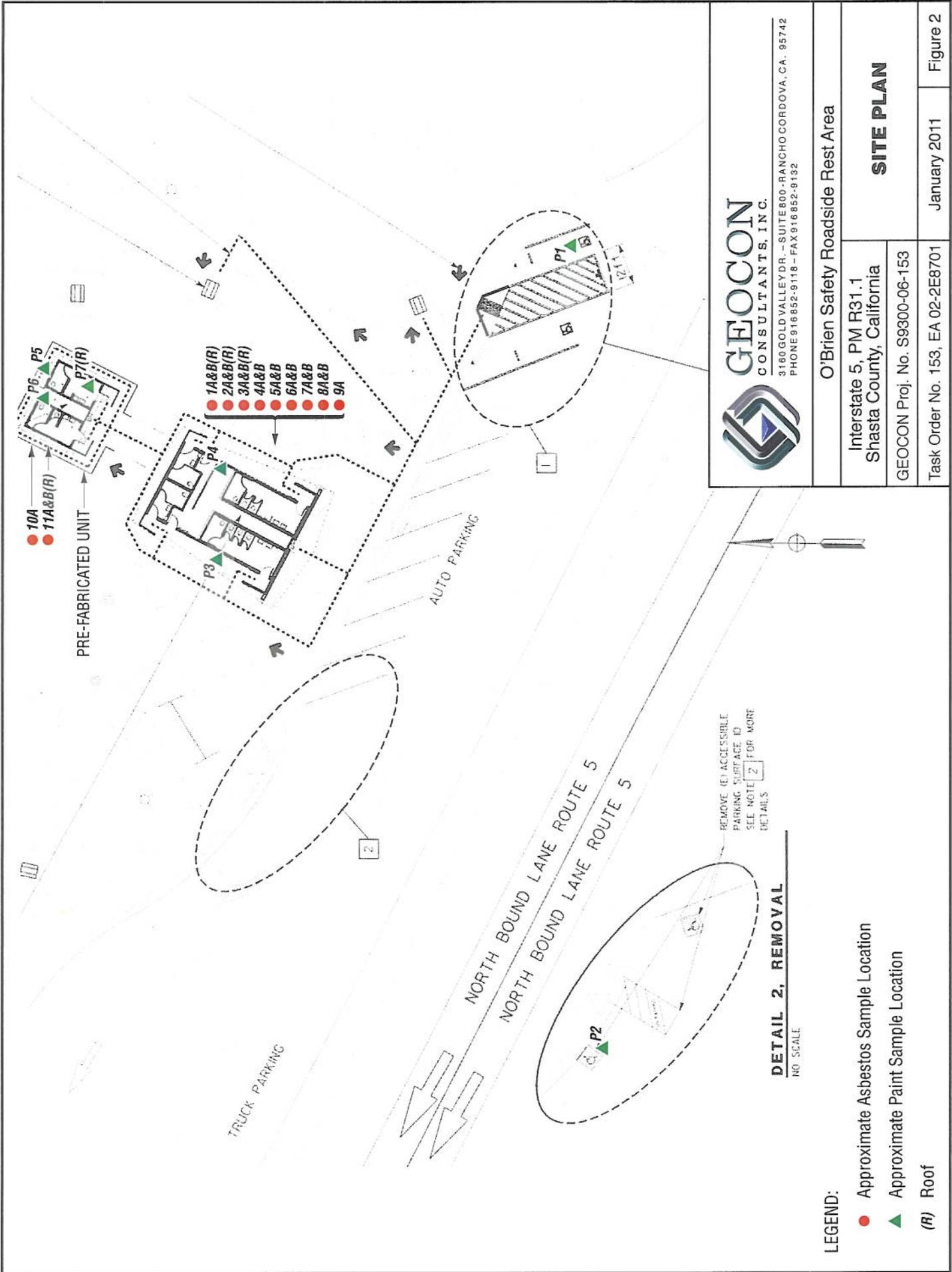
This report has been prepared exclusively for Caltrans. The information contained herein is only valid as of the date of the report and will require an update to reflect additional information obtained.

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. Geocon 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.

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.



 <b>GEOCON</b> CONSULTANTS, INC. <small>3160 GOLD VALLEY DR. - SUITE 800 - RANCHO CORDOVA, CA. 95742          PHONE 916 852-9118 - FAX 916 852-9132</small>	
<b>O'Brien Safety Roadside Rest Area</b>	
Interstate 5, PM R31.1 Shasta County, California	
<b>VICINITY MAP</b>	
GEOCON Proj. No. S9300-06-153	
Task Order No. 153, EA 02-2E8701	
January 2011	Figure 1





**Photo 1 – Blue and white traffic paint (accessible parking - east) at the O'Brien SRRA in Shasta County**



**Photo 2 – Blue and white traffic paint (accessible parking - west)**



**Photo 3 – Main comfort station**



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**PHOTOGRAPHS 1, 2, & 3**

Caltrans, Contract 03A1368, Task Order No.153

E-FIS 02 0000 0610 1, 02-SHA-5 PM R31.1

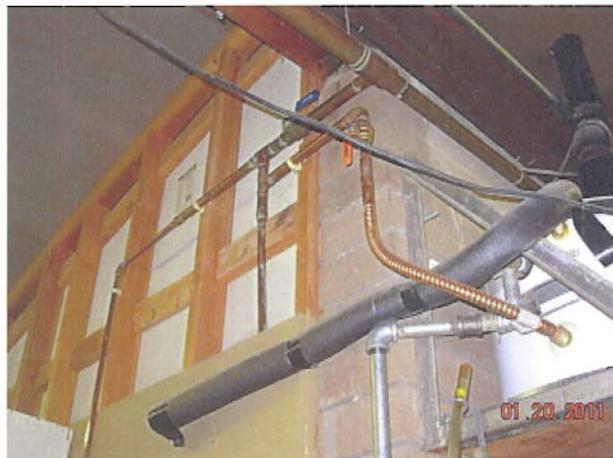
S9300-06-153

(EA 02-2E8701)

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**Photo 4 – Main comfort station roofing**



**Photo 5 – Main comfort station interior (mechanical area)**



**Photo 6 – Main comfort station interior (mechanical area)**



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**PHOTOGRAPHS 4, 5, & 6**

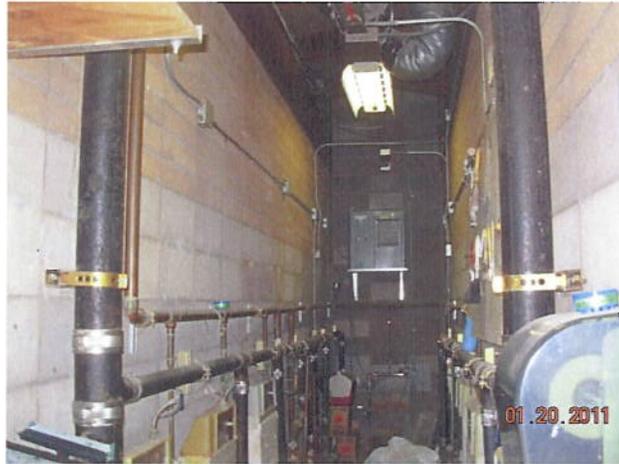
Caltrans, Contract 03A1368, Task Order No.153

E-FIS 02 0000 0610 1, 02-SHA-5 PM R31.1

S9300-06-153

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January 2011



**Photo 7 – Main comfort station interior (mechanical area)**



**Photo 8 – Main comfort station typical restroom area**



**Photo 9 – Main comfort station fire door**



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**PHOTOGRAPHS 7, 8, & 9**

Caltrans, Contract 03A1368, Task Order No.153

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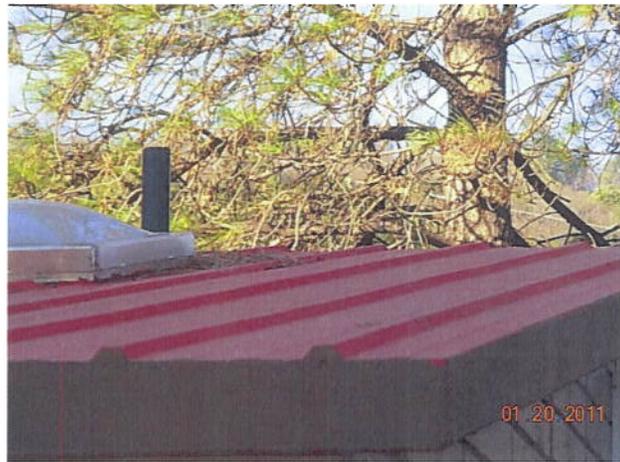
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**Photo 10 – Pre-fabricated concrete unit**



**Photo 11 – Roofing (pre-fabricated concrete unit)**



**Photo 12 – Roofing (pre-fabricated concrete unit)**



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**PHOTOGRAPHS 10, 11, & 12**

Caltrans, Contract 03A1368, Task Order No.153

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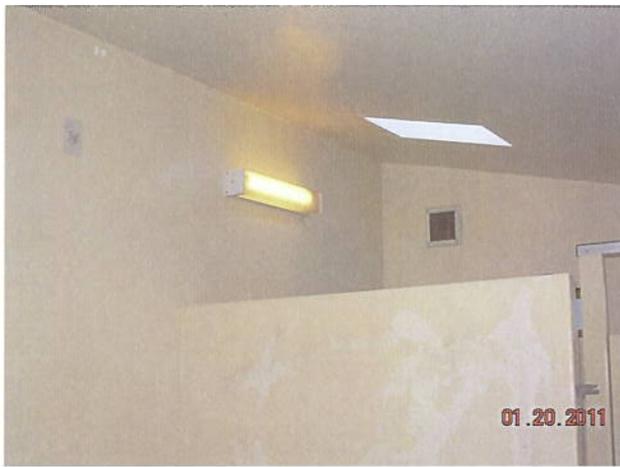
S9300-06-153

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January 2011



**Photo 13 – Mechanical area (pre-fabricated concrete unit)**



**Photo 14 – Typical restroom area (pre-fabricated concrete unit)**



**Photo 15 – Fire door (pre-fabricated concrete unit)**



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**PHOTOGRAPHS 13, 14, & 15**

Caltrans, Contract 03A1368, Task Order No.153

E-FIS 02 0000 0610 1, 02-SHA-5 PM R31.1

S9300-06-153

(EA 02-2E8701)

January 2011

TABLE 1  
 SUMMARY OF ASBESTOS ANALYTICAL RESULTS  
 O'BRIEN SAFETY ROADSIDE REST AREA  
 CALTRANS CONTRACT 03A1638, TASK ORDER NO.153, E-FIS 02 0000 0610 1 (EA 02-2E8701), 02-SHA-5 PM R31.1  
 SHASTA COUNTY, CALIFORNIA

Polarized Light Microscopy (PLM) - EPA Test Method 600/R-93/116

Sample Group No.	Description of Material	Approximate Quantity	Friable	Site Photo	Asbestos Content
1	Roofing paper (main comfort station)	NA	NA	4	ND
2	Roofing felt (main comfort station)	NA	NA	4	ND
3	Roofing mastic (main comfort station)	NA	NA	4	ND
4	Backer board (main comfort station)	NA	NA	5	ND
5	Vapor barrier (main comfort station)	NA	NA	6	ND
6	Stone tile/mortar systems (main comfort station)	NA	NA	3	ND
7	Ceramic tile/mortar systems (main comfort station)	NA	NA	8	ND
8	Block/mortar systems (main comfort station)	NA	NA	3	ND
9	Fire door core (main comfort station)	NA	NA	9	ND
10	Fire door core (pre-fabricated concrete unit)	NA	NA	12	ND
11	Roofing mastic (pre-fabricated concrete unit)	NA	NA	15	ND

Notes:

NA = Not applicable (no asbestos detected)

ND = Not detected

TABLE 2

SUMMARY OF PAINT ANALYTICAL RESULTS - TOTAL AND SOLUBLE LEAD

O'BRIEN SAFETY ROADSIDE REST AREA

CALTRANS CONTRACT 03A1638, TASK ORDER NO.153, E-FIS 02 0000 0610 1 (EA 02-2E8701), 02-SHA-5 PM R31.1

SHASTA COUNTY, CALIFORNIA

Paint Sample No.	Paint Description	Approximate Quantity	Peeling/Flaking	Site Photos	Total Lead (mg/kg)	WET Lead (mg/l)
P1	Blue and white traffic paint (accessible parking - east)	Intact		1	15	---
P2	Blue and white traffic paint (accessible parking - west)	Intact		2	3.9	---
P3	Brown interior/exterior paint (main comfort station)	Intact		8	<3.1	---
P4	Beige interior/exterior paint (main comfort station)	Intact		8	81	10
P5	Tan interior/exterior paint (pre-fabricated concrete unit)	Intact		10	4.5	---
P6	Beige interior/exterior paint (pre-fabricated concrete unit)	Intact		13	<2.7	---
P7	Red roofing paint (pre-fabricated concrete unit)	Intact		11	<11	---

Notes:

mg/kg = milligrams per kilogram (EPA Test Method 6010)

mg/l = milligrams per liter

WET = Waste Extraction Test (EPA Test Method 7420)

--- = Not analyzed

< = Not detected at or above the indicated method detection limit

APPENDIX

A



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: Dave Watts
Geocon Consultants, Inc.
6671 Brisa Street

Livermore, CA 94550

Fax: (925) 371-5915

Phone: (925) 371-5900

Project: S9300-06-153
O'Brien SRRA

Customer ID: GECN21
Customer PO: S9300-06-153
Received: 01/21/11 10:00 AM
EMSL Order: 091100612

EMSL Proj: S9300-06-\*\*
Analysis Date: 1/22/2011

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Table with 7 columns: Sample, Description, Appearance, % Fibrous, % Non-Fibrous, Asbestos Type. Rows include 1A Roofing Paper, 1B Roofing Paper, 2A Roofing Felt, 2B Roofing Felt, 3A Roofing Mastic, 3B Roofing Mastic, and 4A Backer Board.

Initial report from 01/22/2011 15:23:56

Analyst(s)

Nonette Patron (26)

Baojia Ke, Laboratory Manager
or other approved signatory

Due to magnification limitations inherent in PLM, asbestos fibers in dimensions below the resolution capability of PLM may not be detected. Samples reported as <1% or none detected may require additional testing by TEM to confirm asbestos quantities. The above test report relates only to the items tested and may not be reproduced in any form without the express written approval of EMSL Analytical, Inc. EMSL's liability is limited to the cost of analysis. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. Samples received in good condition unless otherwise noted.
Samples analyzed by EMSL Analytical, Inc 2235 Polvorosa Ave , Suite 230, San Leandro CA NVLAP Lab Code 101048-3, MA AA000201, WA C2007



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: Dave Watts
Geocon Consultants, Inc.
6671 Brisa Street

Livermore, CA 94550

Fax: (925) 371-5915
Project: S9300-06-153
O'Brien SRRA

Phone: (925) 371-5900

Customer ID: GECN21
Customer PO: S9300-06-153
Received: 01/21/11 10:00 AM
EMSL Order: 091100612

EMSL Proj: S9300-06-\*\*
Analysis Date: 1/22/2011

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Table with 7 columns: Sample, Description, Appearance, % Fibrous, % Non-Fibrous, Asbestos % Type. Rows include 4B Backer Board, 5A Vapor Barrier, 5B Vapor Barrier, 6A-Tile, 6A-Grout, 6B-Tile, 6B-Grout.

Initial report from 01/22/2011 15:23:56

Analyst(s)

Nonette Patron (26)

Baojia Ke, Laboratory Manager
or other approved signatory

Due to magnification limitations inherent in PLM, asbestos fibers in dimensions below the resolution capability of PLM may not be detected. Samples reported as <1% or none detected may require additional testing by TEM to confirm asbestos quantities. The above test report relates only to the items tested and may not be reproduced in any form without the express written approval of EMSL Analytical, Inc. EMSL's liability is limited to the cost of analysis. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. Samples received in good condition unless otherwise noted.

Samples analyzed by EMSL Analytical, Inc 2235 Polvorosa Ave , Suite 230, San Leandro CA NVLAP Lab Code 101048-3, MA AA000201, WA C2007



EMSL Analytical, Inc

2235 Polvorosa Ave , Suite 230, San Leandro, CA 94577

Phone: (510) 895-3675 Fax: (510) 895-3680 Email: mltpitaslab@emsl.com

Attn: Dave Watts
Geocon Consultants, Inc.
6671 Brisa Street

Livermore, CA 94550

Fax: (925) 371-5915
Project: S9300-06-153
O'Brien SRRA

Phone: (925) 371-5900

Customer ID: GECN21
Customer PO: S9300-06-153
Received: 01/21/11 10:00 AM
EMSL Order: 091100612

EMSL Proj: S9300-06-\*\*
Analysis Date: 1/22/2011

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Table with 7 columns: Sample, Description, Appearance, % Fibrous, % Non-Fibrous, Asbestos Type. Rows include 7A-Ceramic Tile, 7A-Grout, 7B-Ceramic Tile, 7B-Grout, 8A-Block, 8A-Mortar, 8B-Block.

Initial report from 01/22/2011 15:23:56

Analyst(s)

Nonette Patron (26)

Baojia Ke, Laboratory Manager
or other approved signatory

Due to magnification limitations inherent in PLM, asbestos fibers in dimensions below the resolution capability of PLM may not be detected. Samples reported as <1% or none detected may require additional testing by TEM to confirm asbestos quantities. The above test report relates only to the items tested and may not be reproduced in any form without the express written approval of EMSL Analytical, Inc. EMSL's liability is limited to the cost of analysis. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. Samples received in good condition unless otherwise noted.

Samples analyzed by EMSL Analytical, Inc 2235 Polvorosa Ave , Suite 230, San Leandro CA NVLAP Lab Code 101048-3, MA AA000201, WA C2007



**EMSL Analytical, Inc**

2235 Polvorosa Ave , Suite 230, San Leandro, CA 94577

Phone: (510) 895-3675 Fax: (510) 895-3680 Email: [mitpitaslab@emsl.com](mailto:mitpitaslab@emsl.com)

Attn: **Dave Watts**  
**Geocon Consultants, Inc.**  
**6671 Brisa Street**

**Livermore, CA 94550**

Fax: (925) 371-5915

Phone: (925) 371-5900

Project: **S9300-06-153**  
**O'Brien SRRA**

Customer ID: GECN21  
Customer PO: S9300-06-153  
Received: 01/21/11 10:00 AM  
EMSL Order: 091100612

EMSL Proj: S9300-06-\*\*  
Analysis Date: 1/22/2011

**Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy**

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
8B-Mortar 091100612-0016A		Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
9A Fire Door Core 091100612-0017		White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
10A Fire Door Core 091100612-0018		White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
11A Roofing Mastic 091100612-0019		White/Red Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
11B Roofing Mastic 091100612-0020		White/Red Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected

Initial report from 01/22/2011 15:23:56

Analyst(s)  
Nonette Patron (26)

  
Baojia Ke, Laboratory Manager  
or other approved signatory

Due to magnification limitations inherent in PLM, asbestos fibers in dimensions below the resolution capability of PLM may not be detected. Samples reported as <1% or none detected may require additional testing by TEM to confirm asbestos quantities. The above test report relates only to the items tested and may not be reproduced in any form without the express written approval of EMSL Analytical, Inc. EMSL's liability is limited to the cost of analysis. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. Samples received in good condition unless otherwise noted.  
Samples analyzed by EMSL Analytical, Inc 2235 Polvorosa Ave , Suite 230, San Leandro CA NVLAP Lab Code 101048-3, MA AA000201, WA C2007

Project No.: 09300-06-153 Client Name: GECCON  
 Report Results to: D. WATTS Office Location: LIVERMORE CA  
 Consultants Ph. #: (925) 371-5900 Consultants Fax #: (925) 371-5915  
 Site Name: O'BRIEN BARRA Building No.:  
 Analytical Fee (per sample): \$7242 DAT Date(s) Inspected: 20 JAN 2011  
 Other Comments: PLM  
 Site Address: SHASTA COUNTY CA

Material Code	Sample Number		Samples Collected											Not Sampled	Material Description	
	Site No.	Material Link No.	A	B	C	D	E	F	G	H	I	J	K			
			X	X												Roofing Paper
			X	X												" FELT
			X	X												" mastic
			X	X												BACKER BOARD
			X	X												VAPE BARRIER
			X	X												STONE DUE SYSTEM
			X	X												CERAMIC TILE SYSTEM
			X	X												Block & mortar
			X	X												FIRE DOOR CASE
			X	X												" "
			X	X												Roofing mastic

Relinquished by: V. WATTS Date/Time: 20 JAN 2011 1500  
 Signature: [Signature] Print Name: V. WATTS  
 Relinquished by: [Signature] Date/Time: 1-21-11 @ 10AM  
 Signature: [Signature] Print Name: [Signature]

- Roofing material (M)  
 Asphalt and gravel (M)  
 Asphalt roof tile (M)  
 Flashing (M)  
 Felt material (M)  
 Penetration mastic (M)  
 Rolled sheet type (M)  
 Transite shingle (M)
- Mech. equipment-Gasket (M)  
 Mech. equipment-Tank insulation (M)  
 Pipe insulation (type not specified) (TSI)  
 Pipe insulation-Chilled water system (TSI)  
 Pipe insulation-Condensate (TSI)  
 Pipe insulation-Domestic hot water (TSI)  
 Pipe insulation-Domestic cold water (TSI)  
 Pipe insulation-Heating hot water (TSI)  
 Pipe insulation-Heating hot water (TSI)  
 Pipe insulation-Steam (TSI)  
 Pipe insulation-Suction (TSI)
- Filing insulation (type not specified) (TSI)  
 Filing - Chilled water system (TSI)  
 Filing - Condensate (TSI)  
 Filing - Domestic cold water (TSI)  
 Filing - Domestic hot water (TSI)  
 Filing - Heating hot water (TSI)  
 Filing - Steam (TSI)  
 Duct insulation (TSI)
- Duct joint tape/compound (M)  
 HVAC - Flexible duct/flex duct joint (M)  
 Mech. equipment - Flue insulation (TSI)
- Other friable material (M)  
 Other friable material (S)  
 Other nonfriable material (M)  
 Other nonfriable material (S)  
 Plaster (wall or ceiling) (S)  
 Sheetrock (no joint compound) (M)  
 Sheetrock with joint compound (M)  
 Suco (S)  
 Structural fireproofing (S)  
 Transite panel (M)  
 Surface texturing on walls/ceiling (S)  
 Wall (unspecified type) (M)  
 Wall (unspecified type) (S)  
 Wall tile - Splined or nailed (M)  
 Wall tile - Glued on (M)
- Textured acoustical (sprayed) (S)  
 Baseboard mastic (M)  
 Ceiling (unspecified type) (M)  
 Ceiling (unspecified type) (S)  
 Ceiling panel - Lay-in (M)  
 Ceiling mastic (M)  
 Ceiling tile - Splined or nailed (M)  
 Ceiling tile - Glued (M)  
 Ceramic wall tile grout & mastic (M)  
 Debris (unspecified) (M)  
 Debris (unspecified) (S)  
 Debris (unspecified) (M)  
 Debris (unspecified) (S)  
 Door core insulation - Fire door (M)
- Ceramic floor tile grout/mastic (M)  
 Floor mineral-organic (M)  
 Floor mastic (M)  
 Vinyl composite tile floor (M)  
 Vinyl composite sheet floor (M)  
 Floor leveling compound (M)  
 Terrazo flooring (M)
- Miscellaneous material (M)  
 Surfacing material (S)  
 Thermal System Insulation (TSI)

January 27, 2011



Dave Watts  
Geocon Consultants, Inc.  
6671 Brisa Street  
Livermore, CA 94550  
TEL: (925) 371-5900  
FAX: (925) 371-5915

ELAP No.: 1838  
NELAP No.: 02107CA  
CSDLAC No.: 10196  
ORELAP No.: CA300003

Workorder No.: 115909

RE: O'BRIEN SRRA, S9300-06-153

Attention: Dave Watts

Enclosed are the results for sample(s) received on January 21, 2011 by Advanced Technology Laboratories . The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

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

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

Sincerely,

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

Eddie F. Rodriguez  
Laboratory Director

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



Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: 27-Jan-11

<b>CLIENT:</b>	Geocon Consultants, Inc.	<b>Client Sample ID:</b>	P1
<b>Lab Order:</b>	115909	<b>Collection Date:</b>	1/20/2011 8:41:00 AM
<b>Project:</b>	O'BRIEN SRRA, S9300-06-153	<b>Matrix:</b>	PAINT
<b>Lab ID:</b>	115909-001A		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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ICP METALS

	EPA 3050B	EPA 6010B		
RunID: ICP10_110125B	QC Batch: 69969	PrepDate: 1/25/2011	Analyst: JSD	
Lead	15 0.22	2.0	mg/Kg	1 1/25/2011 12:17 PM

<b>Qualifiers:</b>	B Analyte detected in the associated Method Blank	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
	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: 27-Jan-11

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<b>CLIENT:</b>	Geocon Consultants, Inc.	<b>Client Sample ID:</b>	P2
<b>Lab Order:</b>	115909	<b>Collection Date:</b>	1/20/2011 8:46:00 AM
<b>Project:</b>	O'BRIEN SRRA, S9300-06-153	<b>Matrix:</b>	PAINT
<b>Lab ID:</b>	115909-002A		

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Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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## ICP METALS

	EPA 3050B		EPA 6010B				
RunID: ICP10_110125B	QC Batch: 69969			PrepDate:	1/25/2011	Analyst: JSD	
Lead	3.9	0.22	2.0	mg/Kg	1	1/25/2011 12:20 PM	

---

<b>Qualifiers:</b>	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	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

# ANALYTICAL RESULTS

Print Date: 27-Jan-11

---

<b>CLIENT:</b>	Geocon Consultants, Inc.	<b>Client Sample ID:</b>	P3
<b>Lab Order:</b>	115909	<b>Collection Date:</b>	1/20/2011 9:11:00 AM
<b>Project:</b>	O'BRIEN SRRA, S9300-06-153	<b>Matrix:</b>	PAINT
<b>Lab ID:</b>	115909-003A		

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Analyses	Result	MDL	PQL	Qual Units	DF	Date Analyzed
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## ICP METALS

	EPA 3050B			EPA 6010B		
RunID: ICP10_110125B	QC Batch: 69969			PrepDate: 1/25/2011	Analyst: JSD	
Lead	ND	3.1	28	mg/Kg	1	1/25/2011 12:22 PM

---

<b>Qualifiers:</b>	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	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

# ANALYTICAL RESULTS

Print Date: 27-Jan-11

<b>CLIENT:</b>	Geocon Consultants, Inc.	<b>Client Sample ID:</b>	P4
<b>Lab Order:</b>	115909	<b>Collection Date:</b>	1/20/2011 10:17:00 AM
<b>Project:</b>	O'BRIEN SRRA, S9300-06-153	<b>Matrix:</b>	PAINT
<b>Lab ID:</b>	115909-004A		

Analyses	Result	MDL	PQL	Qual Units	DF	Date Analyzed
----------	--------	-----	-----	------------	----	---------------

## ICP METALS

	EPA 3050B		EPA 6010B		
RunID: ICP10_110125B	QC Batch: 69969		PrepDate: 1/25/2011	Analyst: JSD	
Lead	81	6.4	57	mg/Kg	1 1/25/2011 12:25 PM

<b>Qualifiers:</b>	B Analyte detected in the associated Method Blank	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
	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**

**ANALYTICAL RESULTS**

Print Date: 27-Jan-11

<b>CLIENT:</b>	Geocon Consultants, Inc.	<b>Client Sample ID:</b>	P5
<b>Lab Order:</b>	115909	<b>Collection Date:</b>	1/20/2011 11:41:00 AM
<b>Project:</b>	O'BRIEN SRRA, S9300-06-153	<b>Matrix:</b>	PAINT
<b>Lab ID:</b>	115909-005A		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
<b>ICP METALS</b>							
	<b>EPA 3050B</b>		<b>EPA 6010B</b>				
RunID: ICP10_110125B	QC Batch: 69969			PrepDate:	1/25/2011	Analyst: JSD	
Lead	4.5	1.7	15	J	mg/Kg	1	1/25/2011 12:31 PM

<b>Qualifiers:</b>	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	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**

**ANALYTICAL RESULTS**

Print Date: 27-Jan-11

<b>CLIENT:</b>	Geocon Consultants, Inc.	<b>Client Sample ID:</b>	P6
<b>Lab Order:</b>	115909	<b>Collection Date:</b>	1/20/2011 11:44:00 AM
<b>Project:</b>	O'BRIEN SRRA, S9300-06-153	<b>Matrix:</b>	PAINT
<b>Lab ID:</b>	115909-006A		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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**ICP METALS**

	EPA 3050B	EPA 6010B		
RunID: ICP10_110125B	QC Batch: 69969	PrepDate: 1/25/2011	Analyst: JSD	
Lead	ND 2.7	24	mg/Kg	1 1/25/2011 12:34 PM

<b>Qualifiers:</b>	B Analyte detected in the associated Method Blank	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
	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

ANALYTICAL RESULTS

Print Date: 27-Jan-11

<b>CLIENT:</b>	Geocon Consultants, Inc.	<b>Client Sample ID:</b>	P7
<b>Lab Order:</b>	115909	<b>Collection Date:</b>	1/20/2011 12:01:00 PM
<b>Project:</b>	O'BRIEN SRRA, S9300-06-153	<b>Matrix:</b>	PAINT
<b>Lab ID:</b>	115909-007A		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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ICP METALS

	EPA 3050B		EPA 6010B			
RunID: ICP10_110125B	QC Batch: 69969		PrepDate: 1/25/2011	Analyst: JSD		
Lead	ND	11	100	mg/Kg	1	1/25/2011 12:36 PM

<b>Qualifiers:</b>	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	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



**ANALYTICAL QC SUMMARY REPORT**

**CLIENT:** Geocon Consultants, Inc.  
**Work Order:** 115909

**Project:** O'BRIEN SRRA, S9300-06-153

**TestCode:** 6010\_S

Sample ID: MB-69969	SampType: MBLK	TestCode: 6010_S	Units: mg/Kg	Prep Date: 1/25/2011	RunNo: 129126						
Client ID: PBS	Batch ID: 69969	TestNo: EPA 6010B	EPA 3050B	Analysis Date: 1/25/2011	SeqNo: 2093377						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	1.0									

Sample ID: LCS-69969	SampType: LCS	TestCode: 6010_S	Units: mg/Kg	Prep Date: 1/25/2011	RunNo: 129126						
Client ID: LCSS	Batch ID: 69969	TestNo: EPA 6010B	EPA 3050B	Analysis Date: 1/25/2011	SeqNo: 2093378						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	46.406	1.0	50.00	0	92.8	80	120				

Sample ID: 115927-004A-DUP	SampType: DUP	TestCode: 6010_S	Units: mg/Kg	Prep Date: 1/25/2011	RunNo: 129126						
Client ID: ZZZZZZ	Batch ID: 69969	TestNo: EPA 6010B	EPA 3050B	Analysis Date: 1/25/2011	SeqNo: 2093383						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	3.867	1.0						3.736	3.45	20	

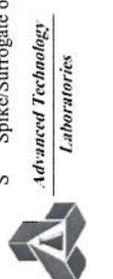
Sample ID: 115927-004A-MS	SampType: MS	TestCode: 6010_S	Units: mg/Kg	Prep Date: 1/25/2011	RunNo: 129126						
Client ID: ZZZZZZ	Batch ID: 69969	TestNo: EPA 6010B	EPA 3050B	Analysis Date: 1/25/2011	SeqNo: 2093384						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	100.335	1.0	125.0	3.736	77.3	34	126				

Sample ID: 115927-004A-MSD	SampType: MSD	TestCode: 6010_S	Units: mg/Kg	Prep Date: 1/25/2011	RunNo: 129126						
Client ID: ZZZZZZ	Batch ID: 69969	TestNo: EPA 6010B	EPA 3050B	Analysis Date: 1/25/2011	SeqNo: 2093385						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	96.003	1.0	125.0	3.736	73.8	34	126	100.3	4.41	20	

**Qualifiers:**

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limits
- 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





## **Carmen Aguila**

---

**From:** David Watts [watts@geoconinc.com]  
**Sent:** Friday, January 21, 2011 11:21 AM  
**To:** Diane Galvan; Carmen Aguila; Bing Roura  
**Subject:** S9300-06-153 O'Brien SRRA

Samples should arrive today.  
Please run these on a 48hr TAT (instead of 72). Thanks.

**David Watts**  
**Senior Project Scientist**  
Please visit our website at <http://www.geoconinc.com>

**GEOCON Consultants, Inc.**  
6671 Brisa Street  
Livermore, CA 94550  
925-371-5900 (office)  
925-371-5915 (fax)  
925-785-5340 (mobile)  
[watts@geoconinc.com](mailto:watts@geoconinc.com)

### **GEOTECHNICAL - ENVIRONMENTAL - MATERIALS**

San Diego Murrieta Burbank Bakersfield Fresno Sacramento Rocklin Fairfield Livermore Carson City Portland

**CONFIDENTIALITY NOTICE:** This e-mail may contain confidential and privileged material for the sole use of the intended recipient(s). Any review, use, distribution or disclosure by others is strictly prohibited. If you have received this communication in error, please notify the sender immediately by e-mail and delete the message and any file attachments from your computer. Thank you.

January 27, 2011



Dave Watts  
Geocon Consultants, Inc.  
6671 Brisa Street  
Livermore, CA 94550  
TEL: (925) 371-5900  
FAX: (925) 371-5915

ELAP No.: 1838  
NELAP No.: 02107CA  
CSDLAC No.: 10196  
ORELAP No.: CA300003

Workorder No.: 115909

RE: O'BRIEN SRRA, S9300-06-153

Attention: Dave Watts

Enclosed are the results for sample(s) received on January 21, 2011 by Advanced Technology Laboratories. The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

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

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

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

Sincerely,

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

Eddie F. Rodriguez  
Laboratory Director

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



**CLIENT:** Geocon Consultants, Inc.  
**Project:** O'BRIEN SRRA, S9300-06-153  
**Lab Order:** 115909

**CASE NARRATIVE**

Analytical Comments for Method 7420

Dilution was necessary for sample 115909-004A, due to sample matrix.



Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: 27-Jan-11

<b>CLIENT:</b>	Geocon Consultants, Inc.	<b>Client Sample ID:</b>	P4
<b>Lab Order:</b>	115909	<b>Collection Date:</b>	1/20/2011 10:17:00 AM
<b>Project:</b>	O'BRIEN SRRA, S9300-06-153	<b>Matrix:</b>	PAINT
<b>Lab ID:</b>	115909-004A		

Analyses	Result	MDL	PQL	Qual Units	DF	Date Analyzed
----------	--------	-----	-----	------------	----	---------------

LEAD BY ATOMIC ABSORPTION (STLC)

	WET		WET/ EPA 7420			
RunID: AA2_110127B	QC Batch: 69999			PrepDate: 1/25/2011	Analyst: VV	
Lead	10	2.1	2.5	mg/L	10	1/27/2011 04:37 PM

<b>Qualifiers:</b>	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	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

**Diane Galvan**

---

**From:** 9257855340@VTEXT.COM  
**Sent:** Wednesday, January 26, 2011 8:59 AM  
**To:** Diane Galvan  
**Subject:** S9300-06-153 RUN WET ASAP

S9300-06-153 RUN WET ASAP

CLIENT: Geocon Consultants, Inc.  
 Work Order: 115909  
 Project: O'BRIEN SRRA, S9300-06-153

**ANALYTICAL QC SUMMARY REPORT**

TestCode: 7420\_ST

Sample ID: MB-69999A	SampType: MBLK	TestCode: 7420_ST	Units: mg/L	Prep Date: 1/25/2011	RunNo: 129243
Client ID: PBS	Batch ID: 69999	TestNo: WET/EPA 74	WET	Analysis Date: 1/27/2011	SeqNo: 2095525
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC
Lead	ND	0.25			
			LowLimit	HighLimit	RPD Ref Val
					%RPD
					RPDLimit
					Qual

Sample ID: LCS-69999	SampType: LCS	TestCode: 7420_ST	Units: mg/L	Prep Date: 1/25/2011	RunNo: 129243
Client ID: LCSS	Batch ID: 69999	TestNo: WET/EPA 74	WET	Analysis Date: 1/27/2011	SeqNo: 2095526
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC
Lead	5.110	0.25	5.000	0	102
			LowLimit	HighLimit	RPD Ref Val
					%RPD
					RPDLimit
					Qual

Sample ID: 115914-001A-DUP	SampType: DUP	TestCode: 7420_ST	Units: mg/L	Prep Date: 1/25/2011	RunNo: 129243
Client ID: ZZZZZZ	Batch ID: 69999	TestNo: WET/EPA 74	WET	Analysis Date: 1/27/2011	SeqNo: 2095529
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC
Lead	4.578	0.25			4.583
			LowLimit	HighLimit	RPD Ref Val
					%RPD
					RPDLimit
					Qual

Sample ID: 115914-001A-MS	SampType: MS	TestCode: 7420_ST	Units: mg/L	Prep Date: 1/25/2011	RunNo: 129243
Client ID: ZZZZZZ	Batch ID: 69999	TestNo: WET/EPA 74	WET	Analysis Date: 1/27/2011	SeqNo: 2095530
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC
Lead	9.808	0.50	5.000	4.583	104
			LowLimit	HighLimit	RPD Ref Val
					%RPD
					RPDLimit
					Qual

Sample ID: 115914-001A-MSD	SampType: MSD	TestCode: 7420_ST	Units: mg/L	Prep Date: 1/25/2011	RunNo: 129243
Client ID: ZZZZZZ	Batch ID: 69999	TestNo: WET/EPA 74	WET	Analysis Date: 1/27/2011	SeqNo: 2095531
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC
Lead	9.737	0.50	5.000	4.583	103
			LowLimit	HighLimit	RPD Ref Val
					%RPD
					RPDLimit
					Qual

Qualifiers:

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

