

# **INFORMATION HANDOUT**

**For Contract No. 03-0G0304  
At 03-ED,Pla-50, 80, 193-VAR**

**Identified by  
Project ID 0314000027**

## **MATERIALS INFORMATION**

Water Source Information

Asbestos and Lead-Containing Paint Survey Report

Bill George – *President*  
Division 3

Greg Prada – *Director*  
Division 2

Dale Coco, MD – *Director*  
Division 4



George Osborne – *Vice President*  
Division 1

Alan Day – *Director*  
Division 5

Jim Abercrombie  
*General Manager*

Thomas D. Cumpston  
*General Counsel*

In Reply Refer to: EEO2015-0565

April 28, 2015

Jack Cowell, P.E.  
California State Dept. of Transportation  
District 3 Maintenance Engineering  
703 B St., 5<sup>th</sup> Floor  
Marysville, CA 95901

Subject: Request for Temporary Water Use

Dear Mr. Cowell:

This letter is in response to your request for temporary water dated, April 3, 2015. The El Dorado Irrigation District maintains a Temporary Water Use Permit Program to supply portable water to projects such as the one described in your letter, “The Caltrans Bridge Rehabilitation Project (EA 03-0G0301) in El Dorado and Placer counties.” The terms and conditions of the Temporary Water Use Permit are attached to the application that can be found on our website at the link below.

[EL DORADO IRRIGATION DISTRICT: Get a temporary water use permit](#)

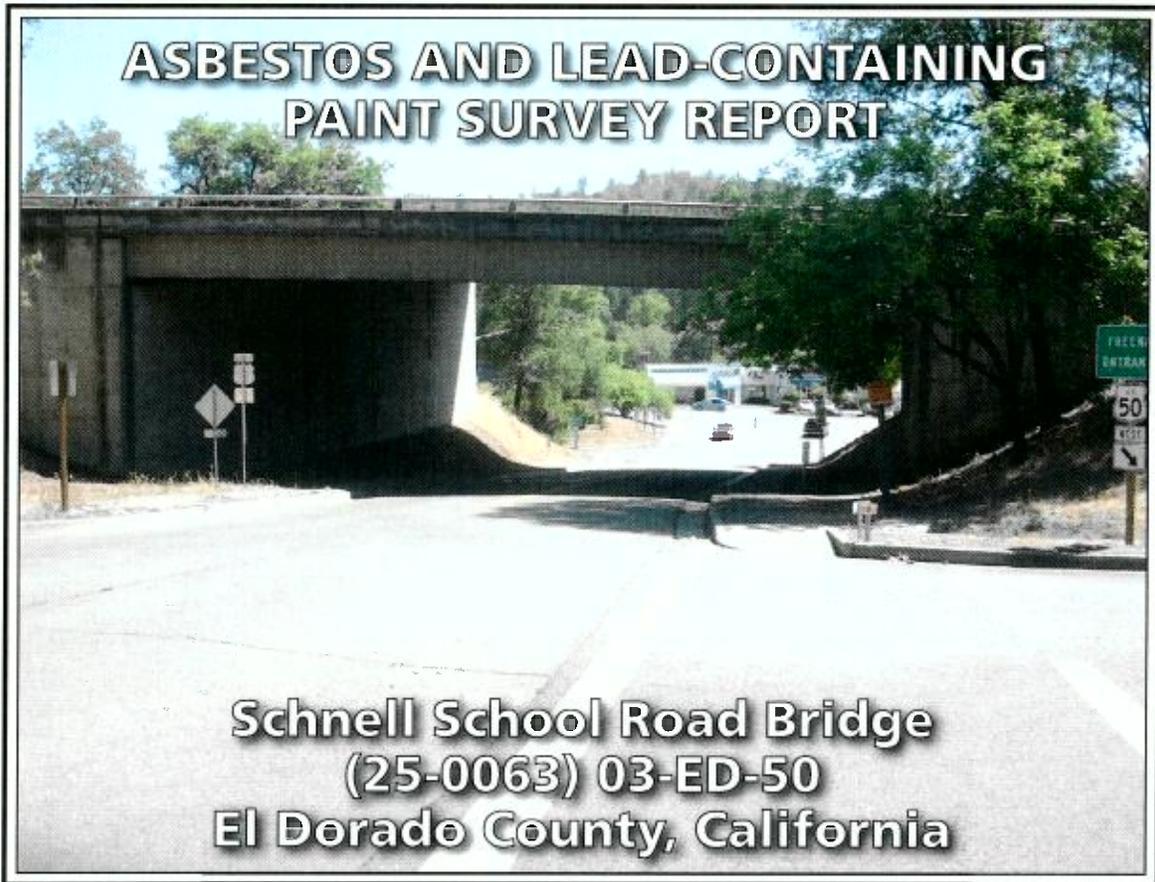
As for the reliability, temporary water use meters are connected to a public water supply that is operated to maintain adequate supply at designed pressures for all connections at all times. Reviewing our system maps, I have identified several locations within your project area that would be available for temporary water use hook-ups. The quantity of water requested would be available under the programs Terms and Conditions at flows no greater than 200 gallons per minute.

Please feel free to contact me if you have any additional questions.

Sincerely,

Dana Strahan  
Drinking Water Operations Manager

cc: Dan Corcoran, El Dorado Irrigation District, Environmental Manager  
Jennifer Downey, El Dorado Irrigation District, Customer Service Manager



**PREPARED FOR:**

**CALIFORNIA DEPARTMENT OF TRANSPORTATION  
DISTRICT 3  
703 B STREET, P.O. BOX 911  
MARYSVILLE, CALIFORNIA 95901**



**PREPARED BY:**

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



**GEOCON PROJECT NO. S9805-01-30  
TASK ORDER NO. 30  
E-FIS 03-1400-0027-1 (EA 03-0G0301)  
CONTRACT NO. 03A2132**

**OCTOBER 2014**



Project No. S9805-01-30  
October 6, 2014

Alicia Beyer, Task Order Manager  
Caltrans District 3  
703 B Street  
Marysville, California 95901

Subject: ASBESTOS AND LEAD-CONTAINING PAINT SURVEY REPORT  
03-ED-50, PM 19.12, SCHNELL SCHOOL ROAD BR. NO. 25-0063  
EL DORADO COUNTY, CALIFORNIA  
CONTRACT NO. 03A2132, E-FIS 03 1400 0027 1, EA 03-0G0301  
TASK ORDER NO. 30

Dear Ms. Beyer:

In accordance with California Department of Transportation Contract No. 03A2132 and Task Order No. 30, we have performed an asbestos and lead-containing paint survey of the Schnell School Road Bridge in El Dorado County, California. Our scope of services included surveying the structure 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 No. 98-2404  
Senior Project Scientist

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

(2 + 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. 03A2132, Task Order No. 30 (TO-30).

### 1.1 Project Description

The project consists of the Schnell School Road Bridge No. 25-0063 at Post Mile 19.12 on Highway 50 in El Dorado County, California. We performed asbestos and LCP survey activities at the project location. The project location is depicted on the Vicinity Map, Figure 1, and Site Plan, Figure 2.

### 1.2 General Objectives

The purpose of the scope of services outlined in TO-30 was to determine the presence and quantity of asbestos and LCP at the project location prior to various bridge improvement activities. 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 of the California Code of Regulations (CCR) §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, §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 landfills and recycling 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 representative total lead content equals or exceeds the respective Total Threshold Limit Concentration (TTL) of 1,000 milligrams per kilogram (mg/kg); or 2) the representative 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 representative 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, §1532.1.

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

As-built plans and 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, 2015), and Certified Lead Paint Inspector/Assessor and Project Monitor with the California Department of Public Health (DPH), certification numbers I-1734 and M-1734 (expiration December 4, 2015), performed the asbestos and LCP survey at the project location on August 22, 2014.

### **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 ten bulk asbestos samples representing four suspect components were collected.

Our procedures for inspection and sampling in accordance with TO-30 are discussed below:

- Collected bulk asbestos samples after first wetting friable materials with a light mist of water. The samples were then cut from the substrate and transferred to labeled containers. 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 under standard chain-of-custody protocol 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). 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 turnaround period of five days.

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**

A total of four bulk paint samples were collected from suspect LCP observed at the project location. Mr. Watts field-composited the suspect LCP samples into two paint schemes prior to submittal to the laboratory. We did not observe deteriorated LCP during our survey. Our sampling procedures in accordance with TO-30 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 standard chain-of-custody protocol to Advanced Technology Laboratories, a California-licensed and Caltrans-approved subcontractor, for total and soluble lead analysis in accordance with EPA Test Method 6010B. Advanced Technology Laboratories is accredited by the DPH for lead analysis. The laboratory analyses were requested on a turnaround period of five days.

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**

Chrysotile asbestos at concentrations of 50 and 60% was detected in samples representing approximately 20 square feet of nonfriable asbestos sheet packing used as shims in the bridge barrier rail system. Asbestos was not detected in samples of the remaining 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 in Appendix A.

#### **4.2 Paint Analytical Results**

Representative total lead was not reported at or above the laboratory reporting limit of 4.0 mg/kg in samples of suspect LCP collected during our survey. A summary of the analytical laboratory test results for paint is presented on Table 2. Reproductions of the laboratory reports and chain-of-custody documentation are presented in Appendix A.

### **5.0 RECOMMENDATIONS**

Based on our findings, we recommend the following:

#### **5.1 Asbestos**

NESHAP regulations do not require that asbestos-containing sheet packing (a Category I nonfriable/nonhazardous material) identified during our survey be removed prior to demolition/renovation or be treated as hazardous waste. The sheet packing may also be reused or stored. However, activities causing *disturbance* of the sheet packing (i.e., cutting, abrading, sanding, grinding, etc.) would require compliance with the Cal/OSHA asbestos standard (Title 8, CCR §1529).

We also recommend the notification of contractors (that will be conducting demolition, renovation, or related activities) of the presence of asbestos in their work areas (i.e., provide the contractor[s] with a copy of this report and a list of asbestos removed by contractor[s] during subsequent abatement activities). Personnel not trained for asbestos work should be instructed not to disturb asbestos.

Written notification to the 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**

Since no lead was detected in the samples collected during our survey, the Cal/OSHA lead standard does not apply for planned activities. In addition, debris represented by samples collected during our survey would not be considered a California or Federal hazardous waste based on lead content.

### **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 structure 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

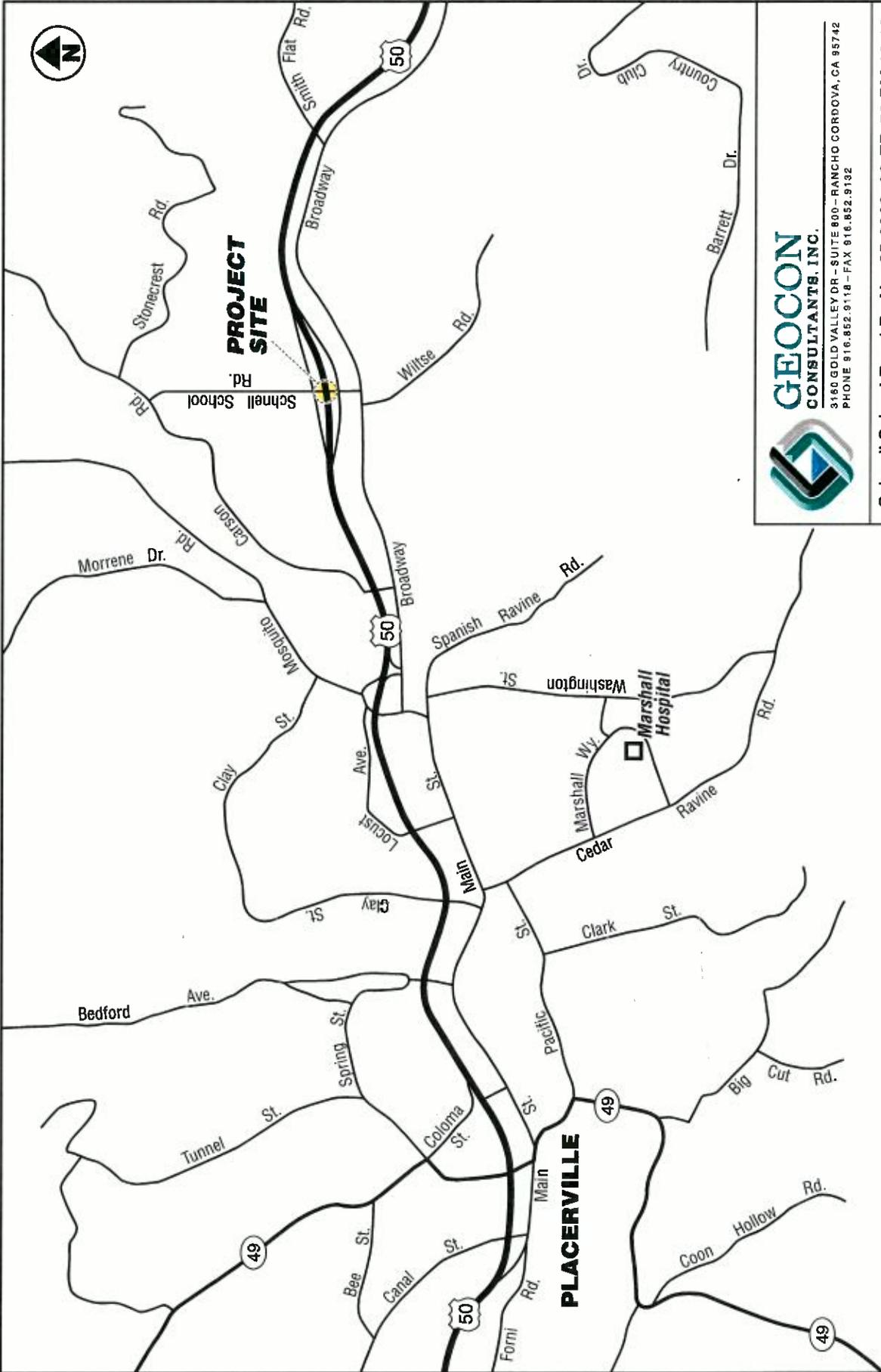
investigator. Previous renovation work may have concealed or covered spaces or materials or may have partially demolished materials and left debris in inaccessible areas. Additionally, renovation activities may have partially replaced ACM with indistinguishable non-ACM. Asbestos and/or LCP may exist 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.



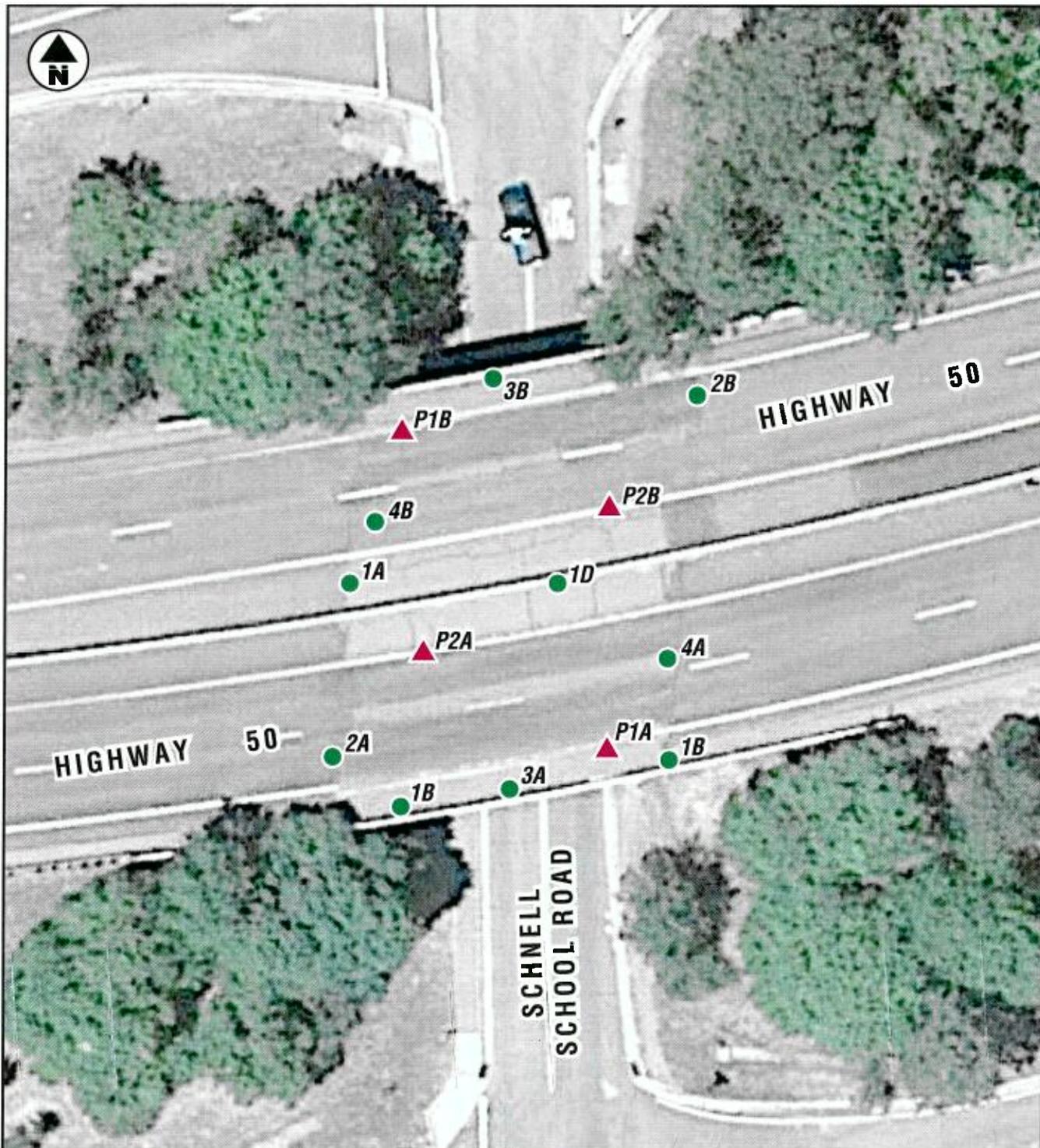
3160 GOLD VALLEY DR - SUITE 800 - RANCHO CORDOVA, CA 95742  
PHONE 916.852.9118 - FAX 916.852.9132

Schnell School Road Br. No. 25-0063, 03-ED-50 PM 19.12

GEOCON Proj. No. S9805-01-30  
Task Order No. 30  
E-FIS 03-1400-0027-1  
EA 03-0G0301  
Caltrans Contract 03A2132



**VICINITY MAP**  
October 2014  
Figure 1



LEGEND:

- 1A ● Approximate Asbestos Sample Location
- P1A ▲ Approximate Paint Sample Location



**GEOCON**  
CONSULTANTS, INC.

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

Schnell School Road Br. No. 25-0063, 03-ED-50 PM 19.12

GEOCON Proj. No. S9805-01-30  
Task Order No. 30  
E-FIS 03-1400-0027-1  
EA 03-0G0301  
Caltrans Contract 03A2132

**SITE PLAN**

October 2014 Figure 2



**Photo 1 – Schnell School Road Br. No. 25-0063 at PM 19.12 on Highway 50 in El Dorado County, California**



**Photo 2 – Bridge deck**



**Photo 3 – East abutment and concrete girder system**

<b>PHOTOGRAPHS 1, 2, &amp; 3</b>		
TO#30		
Schnell School Road Br. No. 25-0063		
03-ED-50 PM 19.12		
S9805-01-30		October 2014



**Photo 4 – Asbestos sheet packing used as barrier rail shims**



**Photo 5 – Bridge deck and median barrier**



**Photo 6 – Drainpipe in east abutment**



**GEOCON**  
CONSULTANTS, INC.

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

<b>PHOTOGRAPHS 4, 5, &amp; 6</b>		
TO #30		
Schnell School Road Br. No. 25-0063		
03-ED-50 PM 19.12		
S9805-01-30		October 2014

TABLE 1

SUMMARY OF ASBESTOS ANALYTICAL RESULTS  
 SCHNELL SCHOOL ROAD BRIDGE NO. 25-0063  
 CONTRACT 03A2132, TASK ORDER NO. 30  
 03-ED-50, POST MILE 19.12  
 EL DORADO 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	Concrete	NA	NA	1 through 6	ND
2	Asphalt	NA	NA	2 and 5	ND
3	Sheet packing (shims)	20 square feet	No	4	50 - 60%
4	Drainpipe	NA	NA	6	ND

Notes:

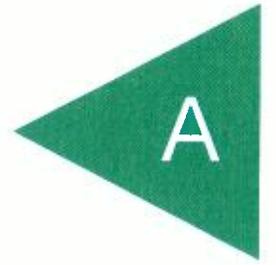
NA = Not applicable (no asbestos detected)  
 ND = Not detected

TABLE 2  
 SUMMARY OF PAINT ANALYTICAL RESULTS - TOTAL LEAD  
 SCHNELL SCHOOL ROAD BRIDGE NO.25-0063  
 CONTRACT 03A2132, TASK ORDER NO. 30  
 03-ED-50, POST MILE 19.12  
 EL DORADO COUNTY, CALIFORNIA

Paint Sample No	Paint Description	Approximate Quantity	Peeling/Flaking	Site Photos	Total Lead (mg/kg)
P1A/B	White traffic striping	Intact		2 and 5	<4.0
P2A/B	Yellow traffic striping	Intact		2 and 5	<4.0

Notes:  
 mg/kg = milligrams per kilogram (EPA Test Method 6010B)  
 < = less than laboratory reporting limit

APPENDIX



**EMSL Analytical, Inc**

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

Phone/Fax: (510) 895-3675 / (510) 895-3680

<http://www.EMSL.com>[sanleandro@emsl.com](mailto:sanleandro@emsl.com)

EMSL Order: 091413424

CustomerID: GECN21

CustomerPO: 03A2132

ProjectID:

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

**Livermore, CA 94550**

Phone: (925) 371-5900

Fax: (925) 371-5915

Received: 08/26/14 9:15 AM

Analysis Date: 9/2/2014

Collected: 8/22/2014

Project: 03A2132 S9805-01-30 SCHNELL

### 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
1A 091413424-0001		Gray Non-Fibrous Homogeneous	10% Min. Wool 3% Cellulose	50% Quartz 15% Ca Carbonate 22% Non-fibrous (other)	None Detected
1B 091413424-0002		Gray/Tan Non-Fibrous Homogeneous	7% Min. Wool 2% Cellulose	50% Quartz 22% Ca Carbonate 19% Non-fibrous (other)	None Detected
1C 091413424-0003		Gray Non-Fibrous Homogeneous	5% Min. Wool 3% Cellulose	55% Quartz 25% Ca Carbonate 12% Non-fibrous (other)	None Detected
1D 091413424-0004		Gray Non-Fibrous Homogeneous		55% Quartz 20% Ca Carbonate 20% Non-fibrous (other)	None Detected
2A 091413424-0005		Black Non-Fibrous Homogeneous		60% Quartz 40% Non-fibrous (other)	None Detected
2B 091413424-0006		Black Non-Fibrous Homogeneous	3% Cellulose	65% Quartz 32% Non-fibrous (other)	None Detected
3A 091413424-0007		Gray/White Fibrous Homogeneous		50% Non-fibrous (other)	50% Chrysotile

Analyst(s)

Ellen Russell (10)

Derrick Tanner, Laboratory Manager  
or other approved signatory

EMSL maintains liability limited to cost of analysis. This report relates only to the samples reported and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the federal government. Non-friable organically bound materials present a problem matrix and therefore EMSL recommends gravimetric reduction prior to analysis. Samples received in good condition unless otherwise noted. Estimated accuracy, precision and uncertainty data available upon request. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample. Reporting limit is 1%

Samples analyzed by EMSL Analytical, Inc. Carte Place, NY

Initial report from 09/02/2014 09:46:13

**EMSL Analytical, Inc**

2235 Polvorosa Ave , Suite 230, San Leandro, CA 94577  
 Phone/Fax: (510) 895-3675 / (510) 895-3680  
<http://www.EMSL.com> [sanleandrolab@emsl.com](mailto:sanleandrolab@emsl.com)

EMSL Order: 091413424  
 CustomerID: GECN21  
 CustomerPO: 03A2132  
 ProjectID:

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

Phone: (925) 371-5900  
 Fax: (925) 371-5915  
 Received: 08/26/14 9:15 AM  
 Analysis Date: 9/2/2014  
 Collected: 8/22/2014

**Livermore, CA 94550**

Project: 03A2132 S9805-01-30 SCHNELL

**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
3B 091413424-0008		Gray/White Fibrous Homogeneous		40% Non-fibrous (other)	60% Chrysotile
4A 091413424-0009		Brown Fibrous Homogeneous	65% Cellulose	35% Non-fibrous (other)	None Detected
4B 091413424-0010		Brown Fibrous Homogeneous	70% Cellulose	30% Non-fibrous (other)	None Detected

Analyst(s)

Ellen Russell (10)

Derrick Tanner, Laboratory Manager  
 or other approved signatory

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 Samples analyzed by EMSL Analytical, Inc. Carle Place, NY

Initial report from 09/02/2014 09:46:13



**Asbestos Chain of Custody**  
**EMSL Order Number (Lab Use Only)**

**091413424**

03A2132

EMSL ANALYTICAL, INC.  
 2235 POLVOROSA DR., STE 230  
 SAN LEANDRO, CA 94577  
 PHONE: (510) 895-3675  
 FAX: (510) 895-3680

Company: GEOCON EMSL-Bill to:  Same  Different  
If Bill to a Different note instructions in Comments\*\*

Street: 6671 BRISA ST. Third Party Billing requires written authorization from third party

City: LIVERMORE State/Province: CA Zip/Postal Code: 94550 Country: USA

Report To (Name): D. WATTS Fax #: 925-371-5915

Telephone #: 925-371-5900 Email Address: WATTS@GEOCON.COM

Project Name/Number: SCHNELL 59805-01-30

Please Provide Results:  Fax  Email Purchase Order: \_\_\_\_\_ U.S. State Samples Taken: CA

Turnaround Time (TAT) Options\* - Please Check

3 Hour  6 Hour  24 Hour  48 Hour  72 Hour  96 Hour  1 Week  2 Week

\*For TEM Air 3 hours/6 hours, please call ahead to schedule. There is a premium charge for 3 Hour TEM AHERA or EPA Level II TAT. You will be asked to sign an authorization form for this service. Analysis completed in accordance with EMSL's Terms and Conditions located in the Analytical Price Guide

<b>PCM - Air</b> <input type="checkbox"/> NIOSH 7400 <input type="checkbox"/> w/ OSHA 8hr. TWA <b>PLM - Bulk (reporting limit)</b> <input checked="" type="checkbox"/> PLM EPA 600/R-93/116 (<1%) <input type="checkbox"/> PLM EPA NOB (<1%) Point Count <input type="checkbox"/> 400 (<0.25%) <input type="checkbox"/> 1000 (<0.1%) Point Count w/Gravimetric <input type="checkbox"/> 400 (<0.25%) <input type="checkbox"/> 1000 (<0.1%) <input type="checkbox"/> NYS 198 1 (friable in NY) <input type="checkbox"/> NYS 198 6 NOB (non-friable-NY) <input type="checkbox"/> NIOSH 9002 (<1%)	<b>TEM - Air</b> <input type="checkbox"/> 4-4.5hr TAT (AHERA only) <input type="checkbox"/> AHERA 40 CFR, Part 763 <input type="checkbox"/> NIOSH 7402 <input type="checkbox"/> EPA Level II <input type="checkbox"/> ISO 10312 <b>TEM - Bulk</b> <input type="checkbox"/> TEM EPA NOB <input type="checkbox"/> NYS 198 4 (non-friable-NY) <input type="checkbox"/> Chatfield SOP <input type="checkbox"/> TEM Mass Analysis-EPA 600 sec 2.5 <b>TEM - Water: EPA 100.2</b> Fibers >10µm <input type="checkbox"/> Waste <input type="checkbox"/> Drinking All Fiber Sizes <input type="checkbox"/> Waste <input type="checkbox"/> Drinking	<b>TEM - Dust</b> <input type="checkbox"/> Microvac - ASTM D 5755 <input type="checkbox"/> Wipe - ASTM D8480 <input type="checkbox"/> Carpet Sonication (EPA 600/J-93/167) <b>Soil/Rock/Vermiculite</b> <input type="checkbox"/> PLM CARB 435 - A (0.25% sensitivity) <input type="checkbox"/> PLM CARB 435 - B (0.1% sensitivity) <input type="checkbox"/> TEM CARB 435 - B (0.1% sensitivity) <input type="checkbox"/> TEM CARB 435 - C (0.01% sensitivity) <input type="checkbox"/> EPA Protocol (Semi-Quantitative) <input type="checkbox"/> EPA Protocol (Quantitative) <b>Other:</b> <input type="checkbox"/>
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Check For Positive Stop - Clearly Identify Homogenous Group

Samplers Name: D. WATTS Samplers Signature: [Signature]

Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
1A-D	CONCRETE (DK/08/AB/17B)	NA	8/22/14
2A/B	ASPHALT	↓	↓
3	SHEET PILING	↓	↓
4	DRAIN PIPE	↓	↓

Client Sample # (s): 1A-4B Total # of Samples: 10

Relinquished (Client): [Signature] Date: 8/22/14 Time: 2:00

Received (Lab): [Signature] Date: 8/26/14 Time: 2:00

Comments/Special Instructions:



August 29, 2014

Dave Watts  
Geocon Consultants, Inc.  
6671 Brisa Street  
Livermore, CA 94550  
Tel: (925) 961-5273  
Fax:(925) 371-5915

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

Re: ATL Work Order Number : 1402480

Client Reference : SCHNELL SCHOOL RD, S9805-01-30

Enclosed are the results for sample(s) received on August 26, 2014 by Advanced Technology Laboratories. The sample(s) are tested for the parameters as indicated on the enclosed chain of custody in accordance with applicable laboratory certifications. The laboratory results contained in this report specifically pertains to the sample(s) submitted.

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

Sincerely,

A handwritten signature in black ink, appearing to read 'E. Rodriguez', is written over a light blue horizontal line.

Eddie Rodriguez  
Laboratory Director

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

**3275 Walnut Avenue, Signal Hill, CA 90755 • Tel: 562-989-4045 • Fax: 562-989-4040**  
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## Certificate of Analysis

Geocon Consultants, Inc.  
6671 Brisa Street  
Livermore, CA 94550

Project Number : SCHNELL SCHOOL RD, S9805-01-30  
Report To : Dave Watts  
Reported : 08/29/2014

### SUMMARY OF SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
P1A/B	1402480-01	Striping	8/22/14 0:00	8/26/14 10:55
P2A/B	1402480-02	Striping	8/22/14 0:00	8/26/14 10:55



### Certificate of Analysis

Geocon Consultants, Inc. 6671 Brisa Street Livermore, CA 94550	Project Number : SCHNELL SCHOOL RD, S9805-01-30 Report To : Dave Watts Reported : 08/29/2014
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**Client Sample ID P1A/B**  
**Lab ID: 1402480-01**

**Total Metals by ICP-AES EPA 6010B**

**Analyst: SB**

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	ND	4.0	1	B4H0402	08/27/2014	08/28/14 14:10	



### Certificate of Analysis

Geocon Consultants, Inc.	Project Number : SCHNELL SCHOOL RD, S9805-01-30
6671 Brisa Street	Report To : Dave Watts
Livermore , CA 94550	Reported : 08/29/2014

**Client Sample ID P2A/B**  
**Lab ID: 1402480-02**

**Total Metals by ICP-AES EPA 6010B**

**Analyst: SB**

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	ND	4.0	1	B4H0402	08/27/2014	08/28/14 14:14	

### QUALITY CONTROL SECTION

**Total Metals by ICP-AES EPA 6010B - Quality Control**

Analyte	Result (mg/kg)	PQL (mg/kg)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD RPD	RPD Limit	Notes
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**Batch B4H0402 - EPA 3050B**

<b>Blank (B4H0402-BLK1)</b>				Prepared: 8/27/2014 Analyzed: 8/28/2014					
Lead	ND	1.0		NR					
<b>LCS (B4H0402-BS1)</b>				Prepared: 8/27/2014 Analyzed: 8/28/2014					
Lead	50.3364	1.0	50.0000	101	80 - 120				
<b>Duplicate (B4H0402-DUP1)</b>				Prepared: 8/27/2014 Analyzed: 8/28/2014					
Lead	4.84232	1.0		6.13450	NR	23.5		20	R
<b>Matrix Spike (B4H0402-MS1)</b>				Prepared: 8/27/2014 Analyzed: 8/28/2014					
Lead	95.3091	1.0	125.000	6.13450	71.3	33 - 134			
<b>Matrix Spike Dup (B4H0402-MSD1)</b>				Prepared: 8/27/2014 Analyzed: 8/28/2014					
Lead	98.1776	1.0	125.000	6.13450	73.6	33 - 134	2.97	20	



## Certificate of Analysis

Geocon Consultants, Inc.

Project Number : SCHNELL SCHOOL RD, S9805-01-30

6671 Brisa Street

Report To : Dave Watts

Livermore , CA 94550

Reported : 08/29/2014

### Notes and Definitions

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

#### Notes:

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

