

**FOR CONTRACT NO.: 03-3M7204
PROJECT ID: 0312000023**

INFORMATION HANDOUT

UNITED STATES COAST GUARD NOTIFICATION MEMO

MATERIALS INFORMATION

ASBESTOS AND
LEAD-CONTAINING PAINT SURVEY REPORT

ROUTE: 03-SAC-160-L6.98

Memorandum

*Flex your power!
Be energy efficient!*

TO: BIDDERS

Date: January 7, 2013

File: EA-3M7201

Location: 03-SAC-160-PM 6.98

**DISTRICT 3 – DIVISION OF MAINTENANCE
MAINTENANCE ENGINEERING**

FROM:

**Project Is: HM115 Funded
20.80.030.115**

Subject: Notification Letter to United States Coast Guard

Please note that you are required to notify the United States Coast Guard (USCG) at least 45 business days before complete closure of **Three Mile Slough Bridge (#24-0121)** for waterway traffic. You shall cooperate with USCG to handle waterway traffic through the work area and shall make arrangements to keep the waterway clear of obstructions.

Please direct your attention to the attached "Notification Letter" as an example to send to the USCG & the USCG conditions attachment.

DEPARTMENT OF TRANSPORTATION

DISTRICT 3
703 B STREET
P.O. BOX 911
MARYSVILLE, CA 95901-0911
PHONE (530) 741-4311
FAX (530) 741-4390
TTY (530) 741-4509



*Flex your power!
Be energy efficient!*

January 7, 2013

Mr. David H. Sulouff
United States Coast Guard
Eleventh Coast Guard District
Building 50-3
Coast Guard Island
Alameda, CA 94501-5100

Subject: **"Notification Letter": Start Construction on Three Mile Slough Bridge.**

Dear Mr. Sulouff:

This letter is notification that the California Department of Transportation (Caltrans) is proposing to start work for "60" consecutive nights at Three Mile Slough Bridge to replace the steel deck lift section. The mariners will need to be notified of the bridge being inoperable for a total of 60 consecutive nights, from 2000 to 0500 hours, commencing on June 15, 2013(?) and consummate on September 15, 2013(?).

Your assistance for smooth and timely coordination of efforts for this proposed bridge project is valuable to our department and your consideration to this matter is greatly appreciated. Should you have any questions or require further information on this matter, please contact me at ???.

Sincerely,

TYPICAL CONDITIONS IMPOSED BY THE COAST GUARD DURING BRIDGE PROJECTS

(This is not an approval to perform work)

- a. The Eleventh Coast Guard District Bridge Office must be provided with the contractors proposed method of construction at least 30 days prior to beginning to allow proper review and coordination prior to official Coast Guard approval. Once approved, we will provide appropriate notices to the mariners concerning work schedules and location of equipment.
- b. The work shall be performed such that waterway traffic and navigational clearances are not affected and the navigable depths are not impaired.
- c. All flame-producing, spark-producing, welding or other hazardous operations shall be halted while vessels are passing through the bridge.
- d. Nothing may interfere with proper display of required bridge navigational lighting or other navigational signals and bridge markings.
- e. Nothing may interfere with the proper operation of the drawbridge or drawspan operating machinery. Proposals to temporarily change the operation of the drawbridge shall be provided in writing to the Eleventh Coast Guard District Bridge Office at least 30 days in advance for review and approval.
- f. If temporary obstructions to navigation such as containment or floating equipment become necessary, the proposal for such obstruction shall be provided to the Eleventh Coast Guard District Bridge Office at least 30 days in advance for review and approval.
- g. Floating equipment located in the channel shall move when requested for safe passage of waterway traffic. A good quality marine radio shall be present at the jobsite and properly employed to facilitate reliable communication between the contractor and approaching waterway traffic. The marine radio installed on the bridge, work tug or safety boat is considered adequate for this purpose.
- h. Floating equipment shall not be located in the channel unless actively engaged in working on the bridge. When not working, floating equipment shall be located in approved anchorages or mooring areas outside the navigation channel.
- i. The bridge owner must provide anchor plans for review and approval.
- j. Moored or stationary obstructions, including scaffolding, barges, falsework, etc., between channel piers shall be lighted at night with steady burning red lights, visible at 2,000 yards from approaching vessels. The Eleventh Coast Guard District Bridge Office will provide details of location and color of lighting when the contractors' proposal is reviewed.
- k. Brief delays to waterway traffic are anticipated. Proposals to close the waterway will require USCG Captain of the Port authorization. At least 30 days advance notice is required to allow proper review and approval with the USCG Captain of the Port and waterway users.
- l. Nothing may fall from the bridge or be deposited into the water. If anything is accidentally dropped into the water, immediate action shall be taken to remove it and the waterway shall be cleared to the satisfaction of the Corps of Engineers.

- m. The Federal Water Pollution Control Act prohibits the discharge of oil, including oil based paints, into the navigable waters of the United States. In the event of discharge the responsible party shall immediately take action to halt the discharge and notify the National Response Center, U.S. Coast Guard by calling (800) 424-8802. Failure to report such discharge may result in substantial fines, imprisonment or both. The responsible party will be responsible for clean up costs, if any.
- n. The bridge owner must establish and maintain an adequate communications plan with USCG Group, Station or VTS. Initial contact may be established with _____ by telephone at (000) 000-0000. (Actual telephone numbers will be provided in the official USCG letter of approval.
- o. When performing hazardous operations in or over the channel, the bridge owner shall provide boats and flagmen as necessary, to stop vessels from entering the work zone.
- p. Materials removed from the bridge or temporary trestle, shall be disposed of in upland, non-wetland areas approved by the Corps of Engineers.
- q. All temporary pilings, trestles, falsework and bridge piers shall be kept free of accumulations of drift and debris. Accumulated drift and debris shall be removed from the waterway and disposed of in appropriate upland, non wetland areas.
- r. The temporary trestle used for construction of the replacement bridge shall be removed completely from the waterway when it is no longer needed for the project.
- s. Additional conditions may be imposed depending upon the specific project and the proposed work.
- t. The work shall be performed with all due speed in order to return the draw to operation as soon as possible, in compliance with 33 CFR 117.135.

ASBESTOS AND LEAD-CONTAINING PAINT SURVEY REPORT



**Three Mile Slough Bridge (Bridge 24-0121)
Sacramento County, California**

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

**GEOCON PROJECT NO. S9300-06-58
TASK ORDER NO. 58, EA NO. 03-4E3801**

OCTOBER 2008



Project No. S9300-06-58

October 30, 2008

Alicia Beyer, Task Order Manager
Caltrans District 3
703 B Street/P.O. Box 911
Marysville, California 95901

Subject: THREE MILE SLOUGH BRIDGE (BRIDGE 24-0121)
SACRAMENTO COUNTY, CALIFORNIA
CONTRACT NO. 03A1368
TASK ORDER NO. 58, EA NO. 03-4E3801
ASBESTOS AND LEAD-CONTAINING PAINT SURVEY REPORT

Dear Ms. Beyer:

In accordance with California Department of Transportation Contract No. 03A1368 and Task Order No. 58, we have performed an asbestos and lead-containing paint survey of the subject bridge in Sacramento County, California. The scope of services included the bridge for suspect asbestos-containing materials and lead-containing paint, collecting bulk samples, and submitting the samples to laboratories for analyses.

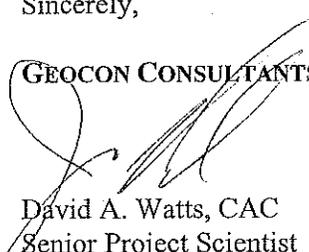
The accompanying report summarizes the services performed and laboratory analysis.

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

DAW:JEJ;jaj

(5 + 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. 58 (TO-58).

1.1 Project Description

The project consists of the Three Mile Slough Bridge (Bridge 24-0121) at Post Mile 6.968 on Highway 160 in Sacramento County, California. We performed an asbestos and LCP survey 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 primary purpose of the scope of services outlined in TO-58 was to determine the presence and quantity of asbestos and deteriorated LCP at the project location prior to 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. HUD protocol generally requires a very extensive sampling strategy that includes sampling of paint on each surface type (e.g., wall, ceiling, window sill, window frame, door frame, molding, etc.) in each room.

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 may make it cost ineffective to do so. 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 component. 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 concentrations) 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 the Title 8, CCR, Section 1532.1.

2.3 Architectural Drawings and Previous Survey Activities

Architectural drawings or previous survey reports for the project 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, 2009), 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, 2009), performed the asbestos and LCP survey at the project location on September 30, 2008.

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 eight bulk asbestos samples of four suspect building materials were collected.

Our procedures for inspection and sampling in accordance with TO-58 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 5-workday 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

Six bulk paint samples were collected from suspect LCP observed at the project location. Our sampling procedures in accordance with TO-58 are discussed below:

- Collected bulk samples of suspect LCP using techniques presented in HUD guidelines. In addition, each painted area was evaluated for evidence of deterioration such as flaking or cracking.
- Relinquished bulk LCP samples to Advanced Technology Laboratories, a California-licensed and Caltrans-approved subcontractor, for lead analyses in accordance with EPA Test Method 6010B under chain-of-custody protocol. Advanced Technology Laboratories is accredited by the DPH for lead analysis. The laboratory analyses were requested on a 5-workday turn-around-time.

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

4.0 INVESTIGATIVE RESULTS

4.1 Asbestos Analytical Results

Chrysotile asbestos at concentrations of 10% and 20% was detected in samples representing approximately 600 square feet of nonfriable cementitious panels used in the bridge house.

Chrysotile asbestos at a concentration of less than (<) 0.25% was detected in a sample representing nonfriable window putty used on the bridge house. The asbestos content was determined using PLM point count analysis (400 points).

Chrysotile asbestos at concentrations of 2% and 5% was detected in samples representing approximately 50 square feet of nonfriable roofing mastic used on the bridge house.

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

4.2 Paint Analytical Results

Samples representing intact silver paint used on the bridge structural steel exhibited total lead concentrations of 20,000 and 13,000 mg/kg and a soluble (TCLP) lead concentration of 8.3 mg/l.

Samples representing intact white paint used in the bridge house exhibited total lead concentrations of 73,000 and 87,000 mg/kg and a soluble (TCLP) lead concentration of 110 mg/l.

A sample representing intact white traffic striping on the bridge deck exhibited a total lead concentration of 83 mg/kg and a soluble (WET) lead concentration of 0.38 mg/l.

A sample representing intact yellow traffic striping on the bridge deck exhibited a total lead concentration of 7,300 mg/kg and a soluble (TCLP) lead concentration of 1.7 mg/l.

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 require that asbestos-containing cementitious panels (a Category II nonfriable/nonhazardous material) used in the bridge house be removed and disposed of prior to demolition or other activities that would disturb the material. A licensed and certified asbestos abatement contractor must perform activities that would disturb the panels. For budgetary planning purposes, our opinion of probable abatement costs for the removal, containerization, transportation, and disposal of the asbestos-containing panels is \$10,000.

NESHAP regulations do not require that asbestos-containing asphalt roofing mastic (a Category I nonfriable/nonhazardous material) or window putty identified during our survey be removed prior to demolition or be treated as hazardous waste. However, the disturbance of these materials is still covered by the Cal/OSHA asbestos standard (Title 8, CCR Section 1529). Contractors are responsible for informing the landfill of the contractor's intent to dispose of asbestos waste. Some landfills may require additional waste characterization. Contractors are responsible for segregating and characterizing waste streams prior to disposal.

Geocon also recommends the notification of contractors (that will be conducting demolition, renovation, or related activities) and bridge house employees of the presence of asbestos in their work areas (i.e., provide the bridge house employees and contractor[s] with a copy of this report and a list of asbestos removed during subsequent activities). Contractors and bridge house employees should be instructed not to disturb asbestos during their work.

In accordance with Sacramento Metropolitan Air Quality Management District (SMAQMD) Rule 902, written notification to the SMAQMD is required ten working days prior to commencement of *any* demolition activity (whether asbestos is present or not) and for renovation activities involving specified quantities of RACM. In accordance with Title 8, CCR 341.9, written notification to the nearest Cal/OSHA district office is required at least 24 hours prior to certain asbestos-related work.

5.2 Lead Paint

The silver and white bridge LCP and yellow traffic paint LCP identified during our survey would be considered a California hazardous waste if stripped, blasted, or otherwise separated from the substrate. In addition, removed silver and white bridge LCP would be considered a Federal hazardous waste. The white traffic paint would not be considered a California or Federal hazardous waste if stripped, blasted, or otherwise separated from the substrate.

The Cal/OSHA lead standard will apply to any maintenance, renovation, or demolition activity that disturbs LCP identified during our survey. 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.

6.0 REPORT LIMITATIONS

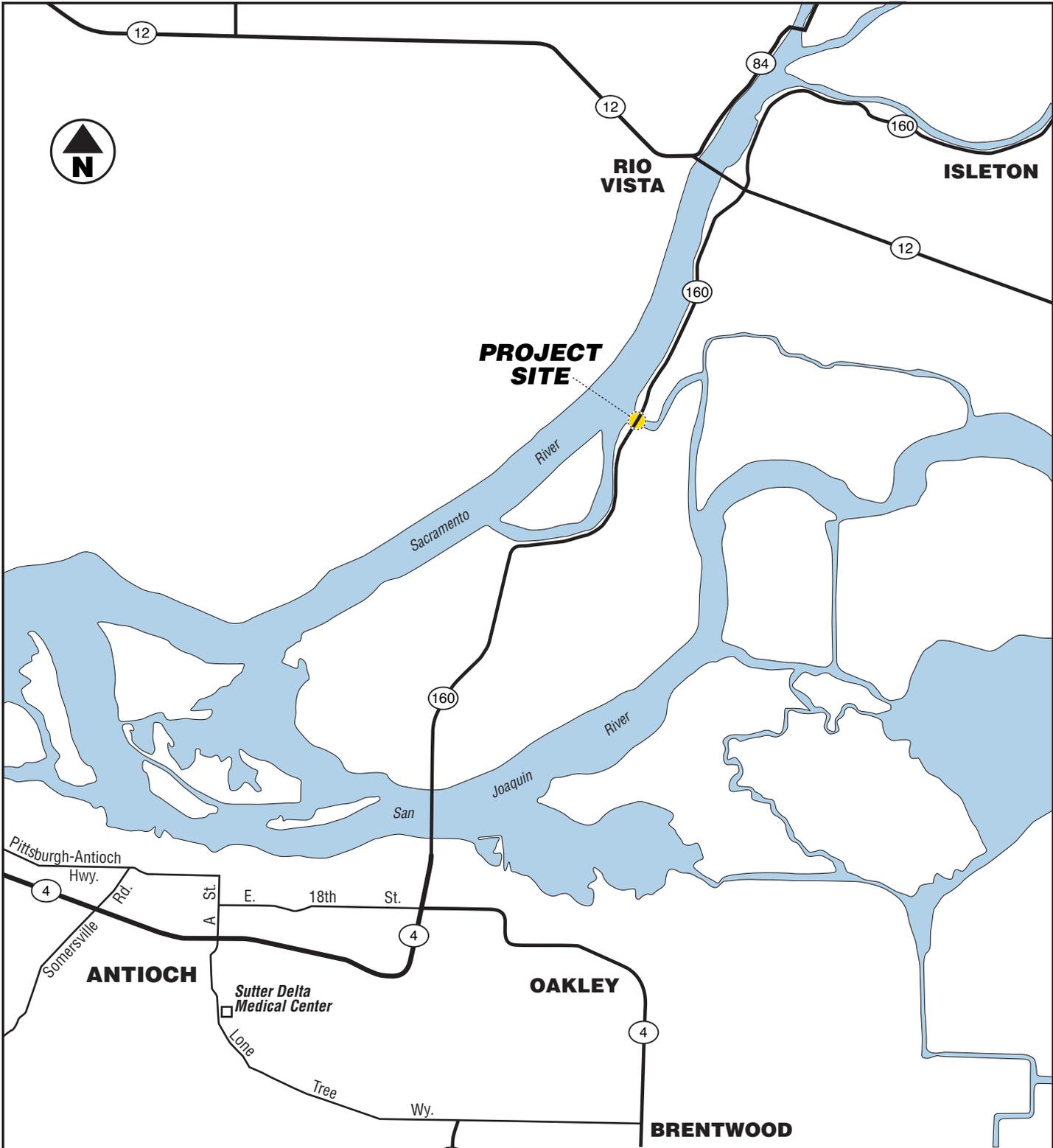
This asbestos and LCP survey was conducted in conformance with generally accepted standards of practice for identifying and evaluating asbestos and LCP in structures. The survey addressed only the bridge identified in Section 1.1. Due to the nature of structure surveys, asbestos and LCP use, and laboratory 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 Geocon's 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 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.



GEOCON

CONSULTANTS, INC.

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PHONE 916 852-9118 - FAX 916 852-9132



Three Mile Slough Bridge

Sacramento County,
California

VICINITY MAP

GEOCON Proj. No. S9300-06-58

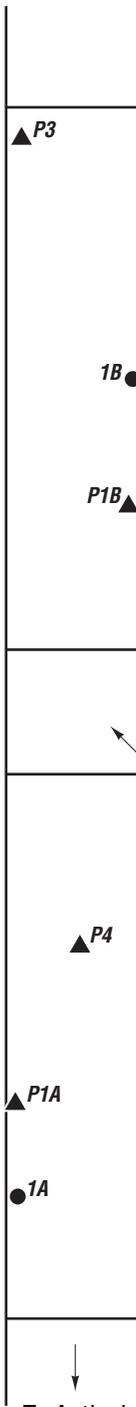
Task Order No. 58, EA 03-4E3801

October 2008

Figure 1



↑ Highway 160
(To Sacramento)



← FLOW

← FLOW

Bridge House

- 2A & 2B
- 3A & 3B
- 4A & 4B(R)
- ▲ P2A & P2B

BRIDGE 24-0121

↓
To Antioch

SCALE APPROXIMATE

LEGEND:

- Approximate Asbestos Sample Location
- ▲ Approximate Paint Sample Location
- (R) Roof (Bridge House)

GEOCON

CONSULTANTS, INC.

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



Three Mile Slough Bridge

Sacramento County,
California

SITE PLAN

GEOCON Proj. No. S9300-06-58

Task Order No. 58, EA 03-4E3801

October 2008

Figure 2



Photo 1 – Three Mile Slough Bridge (Bridge 24-0121) in Sacramento County, California



Photo 2 – Bridge house



Photo 3 – Bridge house interior

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CONSULTANTS, INC.

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Rancho Cordova, California 95742
TEL 916 852-9118 – FAX 916 852-9132



PHOTOGRAPHS 1, 2, & 3

Three Mile Slough Bridge
Sacramento County, California

S9300-06-58

Task Order No. 58

October 2008



Photo 4 – Bridge house roofing



Photo 5 – Bridge deck joint seal (non-suspect)



Photo 6 – Superstructure

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 Rancho Cordova, California 95742
 TEL 916 852-9118 – FAX 916 852-9132



PHOTOGRAPHS 4, 5, & 6

Three Mile Slough Bridge
 Sacramento County, California

S9300-06-58

Task Order No. 58

October 2008



Photo 7 – Bridge abutment



Photo 8 – Bridge bearings



Photo 9 – Camera

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PHOTOGRAPHS 7, 8, & 9

Three Mile Slough Bridge
Sacramento County, California

S9300-06-58

Task Order No. 58

October 2008

TABLE 1

SUMMARY OF ASBESTOS RESULTS
 THREE MILE SLOUGH BRIDGE

CALTRANS CONTRACT 03A1638, TASK ORDER NO. 58, EA 03-4E3801
 SACRAMENTO COUNTY, CALIFORNIA

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

Sample Group	Description of Material	Approximate Quantity	Friable	Site Photos	Asbestos Concentration
1	Textured silver paint (structural steel)	NA	NA	1, 2, 6, & 9	ND
2	Cementitious panels (bridge house)	600 square feet	No	2	10% - 20%
3	Window putty (bridge house)	25 square feet	No	3	<0.25%*
4	Asphalt roofing mastic (bridge house)	50 square feet	No	4	2% - 5%

Notes:

NA = Not applicable (no asbestos detected)

ND = Not detected

* Material analyzed using PLM Point Count Methodology (400 points)

TABLE 2
 SUMMARY OF PAINT RESULTS - LEAD ANALYSIS
 THREE MILE SLOUGH BRIDGE
 CALTRANS CONTRACT 03A1638, TASK ORDER NO. 58, EA 03-4E3801
 SACRAMENTO COUNTY, CALIFORNIA

Sample No.	Paint Description	Approximate Quantity	Deteriorated	Site Photos	Total Lead (mg/kg)	WET Lead (mg/l)	TCLP Lead (mg/l)
P1A	Textured silver paint (structural steel)	Intact		1, 2, 6, & 9	20,000	---	8.3
P1B					13,000		
P2A	White interior paint (bridge house)	Intact		2	73,000	---	110
P2B					87,000		
P3	White traffic striping	Intact		5	83	0.38	---
P4	Yellow traffic striping	Intact		5	7,300	---	1.7

Notes:

TCLP = Toxicity Characteristic Leaching Procedure (EPA Test Method 1311)

WET = Waste Extraction Test (EPA Test Method 7420)

mg/l = milligrams per liter

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

APPENDIX

A



EMSL Analytical, Inc

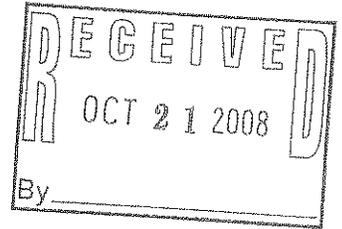
2235 Polvorosa Ave, Suite 230, San Leandro, CA 94577

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

Attn: **David Watts**
Geocon Consultants
6671 Brisa Street
Livermore, CA 94550

Customer ID: GECN21
Customer PO: S9300-06-58
Received: 10/02/08 12:00 PM
EMSL Order: 090807924

EMSL Proj: S9300-06-**
Analysis Date: 10/9/2008
Report Date: 10/9/2008



Fax: (925) 371-5915 Phone: (925) 371-5900
Project: **S9300-06-58, 3 Mile Slough, Sacramento, CA**

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

Sample	Location	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
0121-1A, Textured silver paint <i>090807924-0001</i>	Structural Steel	Silver Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
0121-1B, Textured silver paint <i>090807924-0002</i>	Structural Steel	Silver Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
0121-2A, Cementitious panels <i>090807924-0003</i>	Bridle House	White Fibrous Homogeneous		80% Non-fibrous (other)	20% Chrysotile
0121-2B, Cementitious panels <i>090807924-0004</i>	Bridle House	Gray Fibrous Homogeneous		90% Non-fibrous (other)	10% Chrysotile
0121-3A, Window putty <i>090807924-0005</i>	Bridle House	Various Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
0121-3B, Window putty <i>090807924-0006</i>	Bridle House	Various Non-Fibrous Homogeneous		99% Non-fibrous (other)	1% Chrysotile
0121-4A, Asphalt roofing mastic <i>090807924-0007</i>	Bridle House	Black Non-Fibrous Homogeneous		98% Non-fibrous (other)	2% Chrysotile

Analyst(s)

Nathee Dummai (8)


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.

NVLAP Lab Code 101048-3



EMSL Analytical, Inc

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

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

Attn: **David Watts**
Geocon Consultants
6671 Brisa Street
Livermore, CA 94550

Customer ID: GECN21
Customer PO: S9300-06-58
Received: 10/02/08 12:00 PM
EMSL Order: 090807924

Fax: (925) 371-5915 Phone: (925) 371-5900
Project: **S9300-06-58, 3 Mile Slough, Sacramento, CA**

EMSL Proj: S9300-06-**
Analysis Date: 10/9/2008
Report Date: 10/9/2008

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

Sample	Location	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
0121-4B, Asphalt roofing mastic 090807924-0008	Bridle House	White Non-Fibrous Homogeneous		95% Non-fibrous (other)	5% Chrysotile

Analyst(s)

Nathee Dummai (8)



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.
NVLAP Lab Code 101048-3



EMSL Analytical, Inc

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

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

Attn: **David Watts**
Geocon Consultants
6671 Brisa Street
Livermore, CA 94550

Fax: (925) 371-5915 Phone: (925) 371-5900
Project: S9300-06-58, 3 Mile Slough, Sacramento, CA

Customer ID: GECN21
Customer PO: S9300-06-58
Received: 10/02/08 12:00 PM
EMSL Order: 090807924
EMSL Proj: S9300-06-**
Analysis Date: 10/17/2008
Report Date: 10/17/2008

Asbestos Analysis of Bulk Material via EPA 600/R-93/116. Quantitation using 400 Point Count Procedure.

Sample	Location	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
0121-3B, Window putty 090807924-0006	Bridge House	Various Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	<0.25% Chrysotile

Analyst(s) _____
Nathae Dummai (1)



Baojia Ke, Laboratory Manager
or other approved signatory

Samples received in good condition unless otherwise noted.
NVLAP Lab Code 101048-3

Scosha Brewer

From: David Watts [watts@geoconinc.com]
Sent: Friday, October 10, 2008 8:44 AM
To: milpitaslab@emsl.com
Subject: RE: EMSL results for 090807924 (S9300-06-58, 3 Mile Slough, Sacramento, CA)

Please point count 0121-3B (400 pts...5-day TAT) and change "bridle" to "bridge" throughout the rpt.
Thanks.

-----Original Message-----

From: milpitaslab@emsl.com [mailto:milpitaslab@emsl.com]
Sent: Thursday, October 09, 2008 3:23 PM
To: watts@geoconinc.com
Subject: EMSL results for 090807924 (S9300-06-58, 3 Mile Slough, Sacramento, CA)

Results for orders 090807924 (S9300-06-58, 3 Mile Slough, Sacramento, CA)

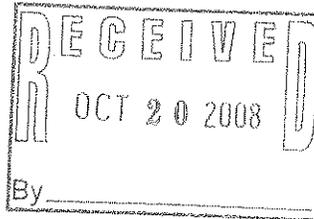
This email may contain privileged and confidential information and is solely for the use of the sender's intended recipient(s). If you received this email in error, please notify the sender by reply email and delete all copies and attachments. Thank you

October 08, 2008



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
NEVADA.: CA-401
Arizona: AZ0689
CSDLAC No.: 10196
Workorder No.: 101370



RE: 3-MILE SLOUGH, S9300-06-58

Attention: Dave Watts

Enclosed are the results for sample(s) received on October 02, 2008 by Advanced Technology Laboratories . The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

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

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

Sincerely,

Eddie F. Rodriguez
Laboratory Director

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



CLIENT: Geocon Consultants, Inc.
Project: 3-MILE SLOUGH, S9300-06-58
Lab Order: 101370

CASE NARRATIVE

Analytical Comments for Method 6010

Dilution was necessary for samples 101370-001A, 101370-002A, 101370-003A, 101370-004A, 101370-005A and 101370-006A, due to sample matrix.

Matrix Spike (MS) and /or Matrix Spike Duplicate (MSD) are/is outside recovery criteria for samples 101372-001AMS and 101372-001AMSD; however, the analytical batch was validated by the Laboratory Control Sample (LCS).

RPD for Matrix Spike (MS)/Matrix Spike Duplicate (MSD) is outside criteria for sample 101372-001AMSD; however, the analytical batch was validated by the Laboratory Control Sample (LCS).



Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: 08-Oct-08

CLIENT: Geocon Consultants, Inc.
Project: 3-MILE SLOUGH, S9300-06-58

Lab Order: 101370

Lab ID: 101370-001
Client Sample ID: 0121-P1A

Collection Date: 9/30/2008 10:11:00 AM
Matrix: PAINT CHIP

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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ICP METALS

		EPA 3050B		EPA 6010B		
RunID:	ICP8_081006H	QC Batch:	49243	PrepDate:	10/3/2008	Analyst: LKN
Lead		20000	80	mg/Kg	20	10/6/2008 04:36 PM

Lab ID: 101370-002
Client Sample ID: 0121-P1B

Collection Date: 9/30/2008 10:16:00 AM
Matrix: PAINT CHIP

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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ICP METALS

		EPA 3050B		EPA 6010B		
RunID:	ICP8_081006H	QC Batch:	49243	PrepDate:	10/3/2008	Analyst: LKN
Lead		13000	80	mg/Kg	20	10/6/2008 04:42 PM

Lab ID: 101370-003
Client Sample ID: 0121-P2A

Collection Date: 9/30/2008 10:19:00 AM
Matrix: PAINT CHIP

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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ICP METALS

		EPA 3050B		EPA 6010B		
RunID:	ICP8_081006H	QC Batch:	49243	PrepDate:	10/3/2008	Analyst: LKN
Lead		73000	80	mg/Kg	20	10/6/2008 04:49 PM

Lab ID: 101370-004
Client Sample ID: 0121-P2B

Collection Date: 9/30/2008 10:24:00 AM
Matrix: PAINT CHIP

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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ICP METALS

		EPA 3050B		EPA 6010B		
RunID:	ICP8_081006H	QC Batch:	49243	PrepDate:	10/3/2008	Analyst: LKN
Lead		87000	80	mg/Kg	20	10/6/2008 04:53 PM

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



Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: 08-Oct-08

CLIENT: Geocon Consultants, Inc.
Project: 3-MILE SLOUGH, S9300-06-58

Lab Order: 101370

Lab ID: 101370-005

Collection Date: 9/30/2008 11:14:00 AM

Client Sample ID: 0121-P3

Matrix: PAINT CHIP

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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ICP METALS

EPA 3050B

EPA 6010B

RunID: ICP8_081006H	QC Batch: 49243				PrepDate: 10/3/2008	Analyst: LKN
Lead	83	80	mg/Kg	20	10/6/2008 04:58 PM	

Lab ID: 101370-006

Collection Date: 9/30/2008 11:21:00 AM

Client Sample ID: 0121-P4

Matrix: PAINT CHIP

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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ICP METALS

EPA 3050B

EPA 6010B

RunID: ICP8_081006H	QC Batch: 49243				PrepDate: 10/3/2008	Analyst: LKN
Lead	7300	80	mg/Kg	20	10/6/2008 05:03 PM	

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: 08-Oct-08

CLIENT: Geocon Consultants, Inc.

Work Order: 101370

Project: 3-MILE SLOUGH, S9300-06-58

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_S

Sample ID:	MBLK	SampType:	MBLK	TestCode:	6010_S	Units:	mg/Kg	Prep Date:	10/3/2008	RunNo:	100258
Client ID:	PBS	Batch ID:	49243	TestNo:	EPA 6010B	EPA	3050B	Analysis Date:	10/6/2008	SeqNo:	1555398
Analyte	Result	PQL	SPK value	SPK RefVal	%REC	LowLimit	HighLimit	RPD RefVal	%RPD	RPDLimit	Qual
Lead	0.764	1.0	50.00	0.7639	90.0	80	120				
Sample ID:	LCS-49243	SampType:	LCS	TestCode:	6010_S	Units:	mg/Kg	Prep Date:	10/3/2008	RunNo:	100258
Client ID:	LCSS	Batch ID:	49243	TestNo:	EPA 6010B	EPA	3050B	Analysis Date:	10/6/2008	SeqNo:	1555399
Analyte	Result	PQL	SPK value	SPK RefVal	%REC	LowLimit	HighLimit	RPD RefVal	%RPD	RPDLimit	Qual
Lead	45.749	1.0	50.00	0.7639	90.0	80	120				
Sample ID:	101372-001A-DUP	SampType:	DUP	TestCode:	6010_S	Units:	mg/Kg	Prep Date:	10/3/2008	RunNo:	100258
Client ID:	ZZZZZZ	Batch ID:	49243	TestNo:	EPA 6010B	EPA	3050B	Analysis Date:	10/6/2008	SeqNo:	1555407
Analyte	Result	PQL	SPK value	SPK RefVal	%REC	LowLimit	HighLimit	RPD RefVal	%RPD	RPDLimit	Qual
Lead	81416.089	80	500.0	81560	1270	33	120				S
Sample ID:	101372-001A-MS	SampType:	MS	TestCode:	6010_S	Units:	mg/Kg	Prep Date:	10/3/2008	RunNo:	100258
Client ID:	ZZZZZZ	Batch ID:	49243	TestNo:	EPA 6010B	EPA	3050B	Analysis Date:	10/6/2008	SeqNo:	1555408
Analyte	Result	PQL	SPK value	SPK RefVal	%REC	LowLimit	HighLimit	RPD RefVal	%RPD	RPDLimit	Qual
Lead	87933.149	80	500.0	81560	1270	33	120				S
Sample ID:	101372-001A-MSD	SampType:	MSD	TestCode:	6010_S	Units:	mg/Kg	Prep Date:	10/3/2008	RunNo:	100258
Client ID:	ZZZZZZ	Batch ID:	49243	TestNo:	EPA 6010B	EPA	3050B	Analysis Date:	10/6/2008	SeqNo:	1555409
Analyte	Result	PQL	SPK value	SPK RefVal	%REC	LowLimit	HighLimit	RPD RefVal	%RPD	RPDLimit	Qual
Lead	108223.091	80	500.0	81560	5330	33	120	87930	20.7	20	SR

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

FOR LABORATORY USE ONLY:

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

P.O.#: _____
 Logged By: K Date: 10/2/08

Method of Transport
 Client ATL CA OverN FEDEX Other: UPS

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: GEORGE WATTS Address: 6671 BRUSA ST. State: CA Zip Code: 94550 TEL: (925) 371-5900
 City: LIVERMORE State: CA Zip Code: 94550 FAX: (925) 371-5915
 Project Name: 3-MILE SLOUGH Project #: 89300-06-58 Sampler: D. WATTS (Printed Name) (Signature)
 Relinquished by: (Signature and Printed Name) D. WATTS Date: 9/30/08 Time: 1600 Received by: (Signature and Printed Name) UPS Date: 9/30/08 Time: 1600
 Relinquished by: (Signature and Printed Name) WATTS Date: 9/30/08 Time: 1600 Received by: (Signature and Printed Name) WATTS Date: 10/2/08 Time: 950
 Relinquished by: (Signature and Printed Name) _____ Date: _____ Time: _____ Received by: (Signature and Printed Name) _____ Date: _____ Time: _____

Special Instructions/Comments: PRINT CUPS - TAXAL FB
Articulate Solubio

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

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

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)

LAB USE ONLY: Batch #:	Lab No.	Sample I.D. / Location	Date	Time	Sample Description	SPECIFY APPROPRIATE MATRIX		PRESERVATION		REMARKS
						Container #	Type	TAT	Type	
101370	1	0121 - P1A	9/30/08	1011						SILVER
2		- P1B		1016						"
3		- P2A		1019						WHITE
4		- P2B		1024						WTS
5		- P3		1114						YTS
6		- P4		1121						

LAB USE ONLY: 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=Pin J=Jar B=Tealjar G=Glass P=Plastic M=Metal
 Preservatives: H=HCl N=HNO₃ S=H₂SO₄ C=4°C Z=Zn(AC)₂ O=NaOH T=Na₂S₂O₃

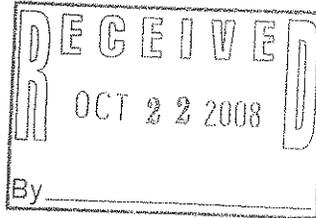
DISTRIBUTION: White with report, Yellow to folder, Pink to submitter.

October 17, 2008



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
NEVADA.: CA-401
Arizona: AZ0689
CSDLAC No.: 10196
Workorder No.: 101370



RE: 3-MILE SLOUGH, S9300-06-58

Attention: Dave Watts

Enclosed are the results for sample(s) received on October 02, 2008 by Advanced Technology Laboratories . The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

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

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

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

Sincerely,


Eddie F. Rodriguez
Laboratory Director

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



CLIENT: Geocon Consultants, Inc.
Project: 3-MILE SLOUGH, S9300-06-58
Lab Order: 101370

CASE NARRATIVE

Analytical Comments for Method 7420

Dilution was necessary for sample 101370-009A, due to sample matrix.

RPD for Duplicate (DUP) is outside criteria for samples 101378-011ADUP and 101517-003ADUP; however, the Laboratory Control Sample (LCS) validated the analytical batch.



Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: 17-Oct-08

CLIENT: Geocon Consultants, Inc.
Project: 3-MILE SLOUGH, S9300-06-58

Lab Order: 101370

Lab ID: 101370-005 **Collection Date:** 9/30/2008 11:14:00 AM

Client Sample ID: 0121-P3 **Matrix:** PAINT CHIP

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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LEAD BY ATOMIC ABSORPTION (STLC)

WET

WET/ EPA 7420

RunID: AA2_081015A	QC Batch: 49374	PrepDate: 10/9/2008	Analyst: AMT
Lead	0.38	0.25	mg/L
		1	10/15/2008 08:55 AM

Lab ID: 101370-006 **Collection Date:** 9/30/2008 11:21:00 AM

Client Sample ID: 0121-P4 **Matrix:** PAINT CHIP

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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LEAD BY ATOMIC ABSORPTION (TCLP)

EPA3010A

EPA 1311/ 7420

RunID: AA2_081016B	QC Batch: 49379	PrepDate: 10/10/2008	Analyst: AMT
Lead	1.7	1.2	mg/L
		1	10/16/2008 11:24 AM

Lab ID: 101370-008 **Collection Date:** 9/30/2008

Client Sample ID: Composite P1A & P1B **Matrix:** PAINT CHIP

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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LEAD BY ATOMIC ABSORPTION (TCLP)

EPA3010A

EPA 1311/ 7420

RunID: AA2_081016B	QC Batch: 49379	PrepDate: 10/10/2008	Analyst: AMT
Lead	8.3	1.2	mg/L
		1	10/16/2008 11:24 AM

Lab ID: 101370-009 **Collection Date:**

Client Sample ID: Composite P2A & P2B **Matrix:** PAINT CHIP

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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LEAD BY ATOMIC ABSORPTION (TCLP)

EPA3010A

EPA 1311/ 7420

RunID: AA2_081016B	QC Batch: 49379	PrepDate: 10/10/2008	Analyst: AMT
Lead	110	5.0	mg/L
		4	10/16/2008 11:26 AM

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





ANALYTICAL QC SUMMARY REPORT

CLIENT: Geocon Consultants, Inc.
Work Order: 101370
Project: 3-MILE SLOUGH, S9300-06-58

TestCode: 7420_TC

Sample ID: MB-49379A	SampType: MBLK	TestCode: 7420_TC	Units: mg/L	RunNo: 100617
Client ID: PBS	Batch ID: 49379	TestNo: EPA 1311/74 EPA3010A		SeqNo: 1562417
Analyte	Result	PQL	SPK value	%REC
Lead	0.160	0.25		
			LowLimit	HighLimit
			RPD RefVal	%RPD
			RPDLimit	Qual

Prep Date: 10/10/2008
Analysis Date: 10/16/2008

Sample ID: MB-49379A	SampType: MBLK	TestCode: 7420_TC	Units: mg/L	RunNo: 100617
Client ID: PBS	Batch ID: 49379	TestNo: EPA 1311/74 EPA3010A		SeqNo: 1562418
Analyte	Result	PQL	SPK value	%REC
Lead	0.214	0.25		
			LowLimit	HighLimit
			RPD RefVal	%RPD
			RPDLimit	Qual

Prep Date: 10/10/2008
Analysis Date: 10/16/2008

Sample ID: LCS-49379	SampType: LCS	TestCode: 7420_TC	Units: mg/L	RunNo: 100617
Client ID: LCSS	Batch ID: 49379	TestNo: EPA 1311/74 EPA3010A		SeqNo: 1562419
Analyte	Result	PQL	SPK value	%REC
Lead	0.981	0.25	1.000	0.1595
			82.1	80
				120
			LowLimit	HighLimit
			RPD RefVal	%RPD
			RPDLimit	Qual

Prep Date: 10/10/2008
Analysis Date: 10/16/2008

Sample ID: 101378-011A-DUP	SampType: DUP	TestCode: 7420_TC	Units: mg/L	RunNo: 100617
Client ID: ZZZZZZ	Batch ID: 49379	TestNo: EPA 1311/74 EPA3010A		SeqNo: 1562430
Analyte	Result	PQL	SPK value	%REC
Lead	0.952	0.31		
			0.5915	46.7
				20
			LowLimit	HighLimit
			RPD RefVal	%RPD
			RPDLimit	Qual

Prep Date: 10/10/2008
Analysis Date: 10/16/2008

Sample ID: 101378-011A-MS	SampType: MS	TestCode: 7420_TC	Units: mg/L	RunNo: 100617
Client ID: ZZZZZZ	Batch ID: 49379	TestNo: EPA 1311/74 EPA3010A		SeqNo: 1562431
Analyte	Result	PQL	SPK value	%REC
Lead	4.140	0.42	4.167	0.5915
			85.2	70
				130
			LowLimit	HighLimit
			RPD RefVal	%RPD
			RPDLimit	Qual

Prep Date: 10/10/2008
Analysis Date: 10/16/2008

Qualifiers:

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

Calculations are based on raw values



CLIENT: Geokon Consultants, Inc.
Work Order: 101370
Project: 3-MILE SLOUGH, S9300-06-58

ANALYTICAL QC SUMMARY REPORT

TestCode: 7420_TC

Sample ID: 101378-011A-MSD	SampType: MSD	TestCode: 7420_TC	Units: mg/L	Prep Date: 10/10/2008	RunNo: 100617						
Client ID: ZZZZZZ	Batch ID: 49379	TestNo: EPA 1311/74 EPA3010A		Analysis Date: 10/16/2008	SeqNo: 1562432						
Analyte	Result	PQL	SPK value	SPK RefVal	%REC	LowLimit	HighLimit	RPD RefVal	%RPD	RPDLimit	Qual
Lead	4.440	0.42	4.167	0.5915	92.4	70	130	4.140	6.98	20	

Qualifiers:

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

Diane Galvan

From: David Watts [watts@geoconinc.com]
Sent: Thursday, October 09, 2008 8:44 AM
To: Diane Galvan
Subject: RE: Results - 3-MILE SLOUGH (101370)

Please combine P1A & P1B and run a TCLP.
Please combine P2A & P2B and run a TCLP.
Please run a WET on P3.
Please run a TCLP on P4.

5-day TATs...thanks.

