

PREPARED FOR:

CALIFORNIA DEPARTMENT OF TRANSPORTATION ENVIRONMENTAL PLANNING HAZARDOUS WASTE BRANCH / UNIT 403 50 HIGUERA STREET SAN LUIS OBISPO, CALIFORNIA 93401



PREPARED BY:

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



GEOCON PROJECT NO. S1200-01-78 TASK ORDER NO. 78, EA 05-1C360

AUGUST 2018



GEOTECHNICAL . ENVIRONMENTAL . MATERIAL



Project No. S1200-01-78 August 31, 2018

Mr. Isaac Leyva, Task Order Manager California Department of Transportation Environmental Planning Hazardous Waste Branch/Unit 1403 50 Higuera Street San Luis Obispo, California 93401

Subject: ASBESTOS AND LEAD-CONTAINING PAINT SURVEY REPORT

SAN JOSE CREEK BRIDGE (51-0217) REPLACEMENT PROJECT

SANTA BARBARA COUNTY, CALIFORNIA

CONTRACT NO. 06A2184, TASK ORDER NO. 78, EA 05-1C360

Dear Mr. Leyva:

In accordance with California Department of Transportation (Caltrans) Contract No. 06A2184 and Task Order No. 78, we have performed an asbestos and lead-containing paint survey of the subject bridge. 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.

Cord Dennig, CSST No. 15-5400

Staff Scientist

(2 + 2 CD) Addressee

Chris Giuntoli, CAC No. 02-3163 Senior Project Scientist

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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. 06A2184, Task Order No. 78 (TO-78).

1.1 Project Description

The project consists of the San Jose Creek Bridge (51-0217), a reinforced concrete slab bridge, at Post Mile (PM) 1.02 on Highway 217 in Santa Barbara 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), and shown in the attached photographs.

1.2 General Objectives

The purpose of the scope of services outlined in TO-78 was to determine the presence and quantity of asbestos and deteriorated LCP at the structure prior to bridge replacement . 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 <u>not</u> 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, 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 California 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, 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 (TTLC) 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

Architectural drawings and previous survey reports were not available for our review.

3.0 SCOPE OF SERVICES

Mr. Cord Dennig, a California-Certified Site Surveillance Technician (CSST), certification No. 15-5400 (expiration April 15, 2019), and Certified Lead Paint Inspector/Assessor with the California Department of Public Health (DPH), certification number 30024 (expiration August 31, 2018), performed the asbestos and LCP survey at the project location on August 1, 2018. Mr. Chris Giuntoli, a California-Certified Asbestos Consultant (CAC), certification No. 02-3163 (expiration June 19, 2019), and Certified Lead Paint Inspector/Assessor with the California Department of Public Health (DPH), certification number 5502 (expiration June 14, 2019) provided project supervision.

3.1 Asbestos

Suspect ACMs 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 materials were collected.

Our procedures for inspection and sampling in accordance with TO-78 are discussed below:

- Collected bulk asbestos samples after first wetting friable materials with a 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). Due to elevated water level and thick vegetation we
 were not able to examine the underside of the bridge.
- Relinquished bulk asbestos samples under 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 one week.

Sample group identification numbers, material descriptions, approximate quantities, friability assessments, and photo references are summarized in 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

We collected a total of two bulk paint samples from suspect LCP observed at the project location. Our sampling procedures in accordance with TO-78 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 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 in 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

Chrysotile asbestos at concentrations of 15-20% was detected in samples representing approximately 20 square feet of nonfriable sheet packing used as guardrail shims on the bridge. Asbestos was not detected in samples of other suspect materials collected during our survey. A summary of the analytical

laboratory test results for asbestos is presented in Table 1. Reproductions of the laboratory report and chain-of-custody documentation are presented in the report appendix.

4.2 Lead Paint

Our sample representing intact yellow traffic striping exhibited a total lead concentration of 2,400 mg/kg and a soluble TCLP lead concentration of 0.34 mg/l.

Lead was not detected at levels that would be classified as California or Federal hazardous in the sample of white traffic striping collected during our survey. A summary of the analytical laboratory test results for paint is presented in Table 2. Reproductions of the laboratory reports and chain-of-custody documentation are presented in the report appendix.

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 renovation/demolition or be treated as a hazardous waste. The sheet packing may also be reused or stored. However, *disturbance* of the material (cutting, abrading, sanding, grinding, etc.) would require compliance with the Cal/OSHA asbestos standard (Title 8, CCR §1529).

We also recommend that contractors who will be conducting demolition, renovation, or related activities be notified 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 during subsequent activities). Personnel not trained for asbestos work should be instructed not to disturb asbestos.

Contractors are responsible for informing landfills and recycling facilities of the contractor's intent to dispose of asbestos waste. Landfills and recycling facilities may require additional waste characterization. Contractors are responsible for segregating and characterizing waste streams prior to disposal.

Written notification to the Santa Barbara County Air Pollution Control District is required ten working days prior to commencement of *any* demolition activity (whether asbestos is present or not).

5.2 Lead Paint

Yellow traffic striping represented by samples collected during our survey would be considered a California waste based on lead content if stripped, blasted, or otherwise separated from the substrate.

We recommend that all paints at the project location be treated as lead-containing for purpose of determining the applicability of the Cal/OSHA lead standard during 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, §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, §1532.1, subsections (e) and (l), respectively. The removal, transportation, placement, handling, and disposal of LCP must result in no visible dust.

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 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.







Photo No. 1 Bridge

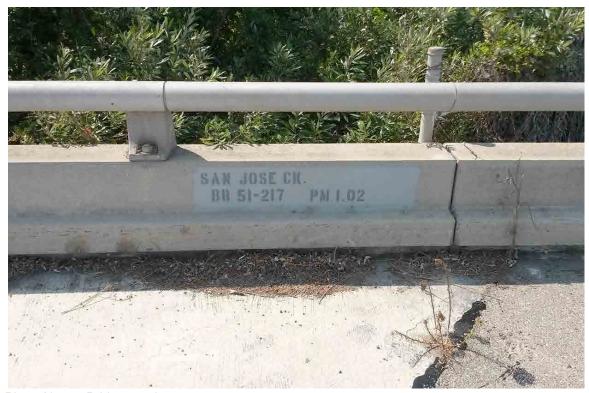


Photo No. 2 Bridge number

PHOTO NOS. 1 & 2



State Houte 217 San Jose Creek Bridge Replacement					
GEOCON Proj. No. S1200-01-78	Santa Barbara County, California				

Task Order No. 78 August 2018



Photo No. 3 Deck concrete and center K-rail



Photo No. 4 Guardrail shims

PHOTO NOS. 3 & 4



State Route 217 San Jose Creek Bridge Replacement					
GEOCON Proj. No. S1200-01-78	Santa Barbara County, California				

Task Order No. 78 August 2018



Photo No. 5 Expansion joint styrene fill



Photo No. 6 Expansion joint spray foam fill

PHOTO NOS. 5 & 6



State Route 217 San Jose Creek Bridge Replacement					
GEOCON Proj. No. S1200-01-78	Santa Barbara County, California				
Task Order No. 78	August 2018				

TABLE 1

SUMMARY OF ASBESTOS ANALYTICAL RESULTS SAN JOSE CREEK BRIDGE (51-0217) REPLACEMENT PROJECT

CALTRANS CONTRACT 06A2184, TASK ORDER NO. 78, 05-1200-0134-0 (EA 05-1C360)

SANTA BARBARA COUNTY, CALIFORNIA

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

Sample Group No.	Description of Material	Approximate Quantity	Friable	Site Photos	Asbestos Content
1	Concrete	NA	NA	1 through 6	ND
2	Bike Path Concrete	NA	NA	5	ND
3	Asphalt (approaches)	NA	NA	1 through 3	ND
4	Guardrail Shims	20 Square Feet	No	2 and 4	15-20% Chrysotile

Notes:

NA = Not applicable (asbestos not detected)

ND = Not detected

TABLE 2

SUMMARY OF PAINT SAMPLE ANALYTICAL RESULTS SAN JOSE CREEK BRIDGE (51-0217) REPLACEMENT PROJECT CALTRANS CONTRACT 06A2184, TASK ORDER NO. 78, 05-1200-0134-0 (EA 05-1C360) SANTA BARBARA COUNTY, CALIFORNIA

SAMPLE I.D.	PAINT COLOR	PAINT TYPE	TOTAL LEAD (mg/kg)	TCLP LEAD (mg/l)
0217-P1 0217-P2	White Yellow	Traffic Stripe Traffic Stripe	7.3 2,400	0.34

Notes:

 $TCLP = Toxicity\ Characteristic\ Leaching\ Procedure$

 $mg/kg = Milligrams \ per \ kilogram$

 $mg/l = Milligrams \ per \ liter$

--- = Not analyzed



Attention: Chris Giuntoli

Suite 800

EMSL Order: 041823744
Customer ID: GECN80
Customer PO: 0642184

Project ID:

Phone: (775) 685-6116

Fax: (916) 852-9132

Received Date: 08/06/2018 9:00 AM
Analysis Date: 08/09/2018 - 08/14/2018

Collected Date: 08/01/2018

Rancho Cordova, CA 95742 **Project:** 51200-01-78 / San Jose Creek Bridge

Geocon Consultants, Inc.

3160 Gold Valley Drive

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

			Non-Asbestos			
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Туре	
0217-01A	Concrete	Gray Non-Fibrous		100% Non-fibrous (Other)	None Detected	
041823744-0001		Homogeneous				
0217-01B	Concrete	Gray Non-Fibrous		100% Non-fibrous (Other)	None Detected	
041823744-0002		Homogeneous				
0217-01C	Concrete	Gray Non-Fibrous		100% Non-fibrous (Other)	None Detected	
041823744-0003		Homogeneous				
0217-01D	Concrete	Gray Non-Fibrous		100% Non-fibrous (Other)	None Detected	
041823744-0004		Homogeneous				
0217-02A	Bike Path Concrete	Gray Non-Fibrous		100% Non-fibrous (Other)	None Detected	
041823744-0005		Homogeneous				
0217-02B	Bike Path Concrete	Gray Non-Fibrous		100% Non-fibrous (Other)	None Detected	
041823744-0006		Homogeneous				
0217-03A	Asphalt	Black Non-Fibrous		100% Non-fibrous (Other)	None Detected	
041823744-0007		Homogeneous				
0217-03B	Asphalt	Black Non-Fibrous		100% Non-fibrous (Other)	None Detected	
041823744-0008		Homogeneous				
0217-04A	Guard Rail Shims	Gray Non-Fibrous		85% Non-fibrous (Other)	15% Chrysotile	
041823744-0009		Homogeneous				
0217-04B	Guard Rail Shims	Gray Fibrous		80% Non-fibrous (Other)	20% Chrysotile	
041823744-0010		Homogeneous				

Ana	lyst((s)

Alexis Kum (5) Ian Kulis (5) Benjamin Ellis, Laboratory Manager or Other Approved Signatory

EMSL maintains liability limited to cost of analysis. The above analyses were performed in general compliance with Appendix E to Subpart E of 40 CFR (previously EPA 600/M4-82-020 "Interim Method"), but augmented with procedures outlined in the 1993 ("final") version of the method. This report relates only to the samples reported above, 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. All samples received in acceptable condition unless otherwise noted. 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. EMSL recommends gravimetric reduction for all non-friable organically bound materials prior to analysis. Estimation of uncertainty is available on request.

Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ NVLAP Lab Code 101048-0, AIHA-LAP, LLC-IHLAP Lab 100194, NYS ELAP 10872, NJ DEP 03036, PA ID# 68-00367

Initial report from: 08/14/2018 08:01:07



Chain of Custody

EMSL Order Number (Lab Use Only):

041823744

PHONE: (856) 786-5974

company: Geccan Cousult	sute lac	EMSL-Bill to: Same Different U: 29 If Bill to is Different note instructions in Comments**		
	Dr. #800	1	uires written authorization from third party	
	State/Province: C		742 Country: USA	
Report To (Name): 410wfoll(0)				
	311.0	Fax #.	told @geocon increom, 51 va.	
Project Name/Number: \$\\\ 200-0	211 b	Tose Creek Bridge	jeoconia	
	Email Purchas	e Order: 0 4 4 4 U.S. State	Samples Taken:	
		(TAT) Options* - Please Ch		
	4 Hour 🔲 48 Ho	ur	6 Hour 📉 1 Week 🗌 2 Week	
) Hours and Availability. Not all TA Days rather than Hours (i.e. 24 Ho		
Materials Ocience and in		Asbestos	= 2.10 of Nort Business Day)	
PCM - Air	PLM - Bulk	7.000000	TEM - Bulk	
☐ NIOSH 7400	▼ PLM EPA 600/R-9		☐ TEM EPA NOB	
w/ 8hr. TWA	☐ PLM EPA NOB (<		☐ NYS NOB 198.4 (non-friable-NY)	
TEM— Air 4-4.5hr TAT (AHERA ONLY) AHERA 40 CFR, Part 763	☐ NYS 198.1 (friable☐ NYS 198.6 (non-fi		☐ Chatfiëld SOP Soil/Rock/Vermiculite	
□ NIOSH 7402		(<0.25%) 1000 (<0.1%)	☐ PLM CARB 435 – A (0.25% sensitivity)	
EPA Level II	Point Count w/ Gravin	metric	☐ PLM CARB 435 – B (0.1% sensitivity)	
☐ ISO 10312		(<0.25%) 🔲 1000 (<0.1%)	TEM CARB 435 – B (0.1% sensitivity)	
TEM - Water Fibers ≥10μm □ Waste □ Drinking	TEM - Dust ☐ Microvac - ASTM	Ú 5755	EPA Reg. 1 Screening Protocol (Qualitative) Other:	
All Fiber Sizes Waste Drinking	☐ Wipe-ASTM D648		<u> </u>	
	ead (Pb)		Materials Science	
Flame Atomic Absorption		ICP	Common Particle ID (large particles)	
☐ Chips SW846-7000B or AOAC 974.0		H 7300 Modified	☐ Full Particle ID (environmental dust).	
☐ Soil SW846-7000B/7420 ☐ Air NIOSH 7082		M Wipe SW846-6010B or C ipe SW846-6010B or C	Basic Material ID (solids) Advanced Material ID	
☐ All NIOSH 7002 ☐ Wastewater SM3111B or SW846-7000		46-6010 B or C	☐ Physical Testing (Tensile, Compression)	
☐ASTM Wipe SW846-7000B/7420	1 —	ater SW846-6010B or C	Combustion-by-products (soot, char, etc.)	
☐non ASTM Wipe SW846-7000B/7420				
Graphite Furnace Atomic Ab		/846-6010B or C Other: □	X-Ray Fluorescence (elem. analysis) X-Ray Diffraction (Crystalline Part.)	
Soil SW846-7421 Wastewate		<u> </u>	☐ MMVF(s (Fibrous glass, RCF's)	
	ater EPA 200.9		Particle Size (sieve/microscopy/laser)	
Mi	crobiology		☐ Combüstible Dust	
Wipe and Bulk Samples	Air Samples		☐ Petrographic Examination	
☐ Mold & Fungi – Direct Examination	☐ Mold & Fungi (Spore Trap)	Other:	
☐ Mold & Fungi Culture (Genus Only)	☐ Mold & Fungi (Culture (Genus Only)	IAQ	
☐ Mold & Fungi Culture (Genus & Species)	│	Genus & Species)	Nuisance Dust NIOSH05000600	
Bacterial Count & ID (Up to Three Types)		& ID (Up to Three Types)	Airborne Dust ☐ PM10 ☐ TSP	
☐ Bacterial Count & ID (Up to Five Types)☐ MRSA	☐ Bacterial Culture	& ID (Up to Five Types)	Silica Análysis: All Species Silica Análysis – Single Species	
☐ Pseudomonas aeruginosa		(See Analytical Guide for Code)	☐ Alpha Quartz ☐ Cristobalite ☐ Tridymite	
Water Samples	Code:		☐ HVAC Efficiency	
☐ Total Coliform & E.coli (P/A)	Legionella	-	☐ Carbon Black	
Fecal Coliform (SM 9222D)	□Level 1 □Leve	l 2 🗌 Level 3 🔲 Level 4	☐ Airborne Oil Mist	
☐ Sewage Screen	Other:		Radon Testing: Call for Kit and COC	
☐ Heterotrophic Plate Count (SM 9215			Other:	
**Comments/Special Instructions:				
Client Sample #'s しょうとい	3-14 through	0217-415 Total	# of Samples: (Q) 7	
Relinquished (Client):	Date: 8	73/19 Time		
Received (Lab):	Date:	Time		

Analysis Completed in Accordance with EMSL's Terms and Conditions located in the Analytical Price Guide Controlled Document-OneChain-R2-1/12/2010

OrderID: 041823744



Chain of Custody

EMSL Order Number (Lab Use Only):

P.2082

EMSL ANALYTICAL, INC.
RECEIVE 200 ROUTE 130 NORTH
EMSL GINNAMINSON, NJ 08077
CINNAMINSON, PHONE: (800) 220-3675
TEXX: (856) 786-5974

18 AUG -6 AM IN: 20

		M 10: 29						
Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled					
0217-01/10	Concrete	NA	8/1/18					
0217-02A/B	Concrete Bite Path Concrete Asphalt Guard sail Shims		,					
0217-034/3	Asphalt							
0217-04AB	Guardrail Shims							
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			-					
			14					
		1 ->-	und militari encountre.					
*Comments/Special	*Comments/Special Instructions:							
		1	ļ					
		1						

Analysis Completed in Accordance with EMSL's Terms and Conditions located in the Analytical Price Guide

2



August 13, 2018

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

Tel: (916) 852-9118 Fax:(916) 852-9132 ELAP No.: 1838 CSDLAC No.: 10196 ORELAP No.: CA300003

Re: ATL Work Order Number: 1802840

Client Reference: San Jose Creek Bridge Replacement, S1200-01-78

Enclosed are the results for sample(s) received on August 04, 2018 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,

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.



Geocon Consultants, Inc. Project Number: San Jose Creek Bridge Replacement, S1200-01-78

3160 Gold Valley Drive, Suite 800 Report To: Rebecca Silva Rancho Cordova, CA 95742

Reported: 08/13/2018

SUMMARY OF SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
0217-P1	1802840-01	Paint Chip	8/01/18 15:30	8/04/18 10:06
0217-P2	1802840-02	Paint Chip	8/01/18 16:00	8/04/18 10:06



Geocon Consultants, Inc. Project Number: San Jose Creek Bridge Replacement, S1200-01-78

3160 Gold Valley Drive, Suite 800 Report To: Rebecca Silva Rancho Cordova, CA 95742

Reported: 08/13/2018

Total Metals by ICP-AES EPA 6010B

Analyte: Lead Analyst: GO

Laboratory ID	Client Sample ID	Result	Units	PQL	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1802840-01	0217-P1	7.3	mg/kg	2.3	1	B8H0148	08/06/2018	08/07/18 12:00	
1802840-02	0217-P2	2400	mg/kg	2.7	1	B8H0148	08/06/2018	08/07/18 12:04	



Geocon Consultants, Inc. Project Number: San Jose Creek Bridge Replacement, S1200-01-78

3160 Gold Valley Drive, Suite 800 Report To: Rebecca Silva

Rancho Cordova , CA 95742 Reported: 08/13/2018

QUALITY CONTROL SECTION

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

	Result	PQL	MDL	Spike	Source	0/ P	% Rec	DDD	RPD	N
Analyte	(mg/kg)	(mg/kg)	(mg/kg)	Level	Result	% Rec	Limits	RPD	Limit	Notes
Batch B8H0148 - EPA 3050B_S										
Blank (B8H0148-BLK1)						Prepared: 8/6	6/2018 Analyze	d: 8/7/2018		
Lead	ND	1.0	0.18							
LCS (B8H0148-BS1)						Prepared: 8/6	6/2018 Analyze	d: 8/7/2018		
Lead	43.1613	1.0	0.18	50.0000		86.3	80 - 120			
Duplicate (B8H0148-DUP1)		Source: 1802840-01				Prepared: 8/6	6/2018 Analyze	d: 8/7/2018		
Lead	9.13717	2.2	0.41		7.27090			22.7	20	R
Matrix Spike (B8H0148-MS1)		Sour	ce: 1802840)-01		Prepared: 8/6/2018 Analyzed: 8/7/2018				
Lead	234.954	2.3	0.41	281.658	7.27090	80.8	36 - 121			
Matrix Spike Dup (B8H0148-MSD1)		Sour	ce: 1802840)-01		Prepared: 8/6	6/2018 Analyze	d: 8/7/2018		
Lead	220.003	2.3	0.41	282.167	7.27090	75.4	36 - 121	6.57	20	



Geocon Consultants, Inc. Project Number: San Jose Creek Bridge Replacement, S1200-01-78

3160 Gold Valley Drive, Suite 800 Report To: Rebecca Silva Rancho Cordova, CA 95742 Reported: 08/13/2018

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)

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.

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Attention: Rebecca Silva			City: Rancho Cordova	ordova	State: CA	Zip Code: 95742 Fax:	916-852-9132	
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August 21, 2018

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

Tel: (916) 852-9118 Fax:(916) 852-9132 ELAP No.: 1838 CSDLAC No.: 10196 ORELAP No.: CA300003

Re: ATL Work Order Number: 1802840

Client Reference: San Jose Creek Bridge Replacement, S1200-01-78

Enclosed are the results for sample(s) received on August 04, 2018 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,

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.



Geocon Consultants, Inc. Project Number: San Jose Creek Bridge Replacement, S1200-01-78

3160 Gold Valley Drive, Suite 800 Report To: Rebecca Silva Rancho Cordova, CA 95742 Reported: 08/21/2018

SUMMARY OF SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
0217-P2	1802840-02	Paint Chip	8/01/18 16:00	8/04/18 10:06



Geocon Consultants, Inc. Project Number: San Jose Creek Bridge Replacement, S1200-01-78

3160 Gold Valley Drive, Suite 800 Report To: Rebecca Silva

Rancho Cordova , CA 95742 Reported: 08/21/2018

TCLP Metals by ICP-AES EPA 6010B

Analyte: Lead Analyst: GO

									Date/Time	
La	aboratory ID	Client Sample ID	Result	Units	PQL	Dilution	Batch	Prepared	Analyzed	Notes
18	302840-02	0217-P2	0.34	mg/L	0.25	5	B8H0546	08/18/2018	08/20/18 11:57	D1



Geocon Consultants, Inc. Project Number: San Jose Creek Bridge Replacement, S1200-01-78

3160 Gold Valley Drive, Suite 800 Report To: Rebecca Silva

Rancho Cordova , CA 95742 Reported: 08/21/2018

QUALITY CONTROL SECTION

TCLP Metals by ICP-AES EPA 6010B - Quality Control

	Result	PQL	MDL	Spike	Source		% Rec		RPD	
Analyte	(mg/L)	(mg/L)	(mg/L)	Level	Result	% Rec	Limits	RPD	Limit	Notes
Batch B8H0546 - EPA 3010A_S										
Blank (B8H0546-BLK1)						Prepared: 8	/18/2018 Analyz	ed: 8/20/2018		
Lead	ND	0.050	0.0047							
Blank (B8H0546-BLK2)						Prepared: 8	/18/2018 Analyz	zed: 8/20/2018		
Lead	ND	0.050	0.0047							
Blank (B8H0546-BLK3)						Prepared: 8	/18/2018 Analyz	ed: 8/20/2018		
Lead	ND	0.050	0.0047			NR				
LCS (B8H0546-BS1)						Prepared: 8	/18/2018 Analyz	ed: 8/20/2018		
Lead	0.947495	0.050	0.0047	1.00000		94.7	80 - 120			
Duplicate (B8H0546-DUP1)		Sour	ce: 180283	9-43		Prepared: 8	/18/2018 Analyz	ed: 8/20/2018		
Lead	ND	0.25	0.024		ND			NR	20	
Duplicate (B8H0546-DUP2)		Source: 1802839-13				Prepared: 8	/18/2018 Analyz	red: 8/20/2018		
Lead	ND	0.25	0.024		ND			NR	20	
Matrix Spike (B8H0546-MS1)		Sour	ce: 180283	9-43		Prepared: 8/18/2018 Analyzed: 8/20/2018				
Lead	2.22964	0.25	0.024	2.50000	ND	89.2	76 - 108			
Matrix Spike (B8H0546-MS2)		Sour	ce: 180283	9-13		Prepared: 8/18/2018 Analyzed: 8/20/2018				
Lead	2.24122	0.25	0.024	2.50000	ND	89.6	76 - 108			
Matrix Spike Dup (B8H0546-MSD1)		Sour	ce: 180283	9-43		Prepared: 8	/18/2018 Analyz	zed: 8/20/2018		
Lead	2.58431	0.25	0.024	2.50000	ND	103	76 - 108	14.7	20	



Geocon Consultants, Inc. Project Number: San Jose Creek Bridge Replacement, S1200-01-78

3160 Gold Valley Drive, Suite 800 Report To: Rebecca Silva Rancho Cordova, CA 95742 Reported: 08/21/2018

Notes and Definitions

D1 Sample required dilution due to possible matrix interference.

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)

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.

Dominic Mata

From: Sent: Rebecca Silva [silva@geoconinc.com] Tuesday, August 14, 2018 8:20 AM

To:

Dominic Mata

Cc:

customer.relations@atlglobal.com

Subject:

RE: Results/Invoice - San Jose Creek Bridge Replacement, S1200-01-78 (ATL# 1802840)

Hi Dominic – Please run TCLP lead on sample 0217-P2 on standard TAT. Thanks.

From: Dominic Mata [mailto:dominic@atlglobal.com]

Sent: Monday, August 13, 2018 4:47 PM

To: Rebecca Silva

Cc: Gemma Reblando; customer.relations@atlglobal.com

Subject: Results/Invoice - San Jose Creek Bridge Replacement, S1200-01-78 (ATL# 1802840)

Good afternoon Rebecca,

Please find your results and invoice for the above project attached. If I can further assist, please let me know.

Thanks,



Dominic Mata | Project Coordinator
ADVANCED TECHNOLOGY LABORATORIES

3275 Walnut Avenue, Signal Hill CA 90755 O: 562.989.4045 ext. 238 | http://www.atlglobal.com

Laboratory

Excellence

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