



Inter Office Memo

DATE: August 29, 2016
TO: Michael Stavropoulos, Senior Engineer
FROM: Steven Deis, Materials Engineer
SUBJECT: **Lead & Asbestos Test Results**
Project No. J11126
Travers Creek Bridge – Manning Ave
Fresno County, California

The Materials Laboratory collected one bulk sample using a hand auger and three concrete samples using chisel from the above project. The samples were bagged, labeled, and brought to the laboratory. The samples were submitted under a chain of custody protocol to and analyzed for lead content and asbestos by BSK Associates in accordance with EPA 6010B (lead) and EPA 600/R-93/116 (asbestos). The test results are presented in the table below.

TRAVERS CREEK BRIDGE – MANNING AVENUE LEAD & ASBESTOS TEST RESULTS

SAMPLE No	SAMPLE LOCATION	TEST METHOD	RESULTS
16-0231	Travers Creek Bridge, S/E Wingwall & Barrier	EPA 600/R-93/116	ND
16-0232	Travers Creek Bridge, N/E Wingwall & Barrier	EPA 600/R-93/116	ND
16-0233	Travers Creek Bridge, N/W Wingwall & Barrier	EPA 600/R-93/116	ND
16-0239	Travers Creek Bridge, N/E Corner, 0 – 6"	EPA 6010B - Lead	ND
16-0240	Travers Creek Bridge, N/E Corner, 6" – 12"	EPA 6010B - Lead	ND

ND - none detected



BSK Associates Fresno
1414 Stanislaus St
Fresno, CA 93706
559-497-2888 (Main)
559-485-6935 (FAX)



A6H0667

8/25/2016

Invoice: A619791

Steve Deis
Fresno County Department of Public Works Planning
4553 E. Hamilton Ave. Bldg 413
Fresno, CA 93702

RE: Report for A6H0667 General

Dear Steve Deis,

Thank you for using BSK Associates for your analytical testing needs. In the following pages, you will find the test results for the samples submitted to our laboratory on 8/4/2016. The results have been approved for release by our Laboratory Director as indicated by the authorizing signature below.

The samples were analyzed for the test(s) indicated on the Chain of Custody (see attached) and the results relate only to the samples analyzed. BSK certifies that the testing was performed in accordance with the quality system requirements specified in the 2009 TNI Standard. Any deviations from this standard or from the method requirements for each test procedure performed will be annotated alongside the analytical result or noted in the Case Narrative. Unless otherwise noted, the sample results are reported on an "as received" basis.

If additional clarification of any information is required, please contact your Project Manager, Michelle Kawaguchi, at 559-497-2888.

Thanks again for using BSK Associates. We value your business and appreciate your loyalty.

Sincerely,

Michelle Kawaguchi

Michelle Kawaguchi, Project Manager



Accredited in Accordance with NELAP
ORELAP #4021

**A6H0667***General***Case Narrative****Project and Report Details**

Client: Fresno County Department of Public Works Pl
Report To: Steve Deis
Project #: Travers Creek Bridge on Manning J11126
Received: 8/04/2016 - 11:27
Report Due: 8/18/2016

Invoice Details

Invoice To: Fresno County Department of Public W
Invoice Attn: Steve Deis
Project PO#: 5101700070

Sample Receipt Conditions

Cooler: Default Cooler
Temperature on Receipt °C: 23.4

Containers Intact
COC/Labels Agree
Packing Material - Other
Initial receipt at BSK-FAL

Data Qualifiers

The following qualifiers have been applied to one or more analytical results:

None applied

Report Distribution

Recipient(s)	Report Format	CC:
Steve Deis	FINAL.RPT	

Certificate of Analysis**Sample ID:** A6H0667-04**Sampled By:** Raj Singh**Sample Description:** Travers Creek Bridge, N/E Corner, 0-6", S-4 // 16-0239**Sample Date - Time:** 07/14/16 - 11:30**Matrix:** Solid**Sample Type:** Grab**BSK Associates Fresno****Metals**

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Lead	EPA 6010B	ND	50	mg/kg	1	A610484	08/11/16	08/15/16	



A6H0667

General

Travers Creek Bridge on Manning J11126

Certificate of Analysis

Sample ID: A6H0667-05

Sampled By: Raj Singh

Sample Description: Travers Creek Bridge, N/E Corner, 6"-12", S-5 // 16-0240

Sample Date - Time: 07/14/16 - 11:30

Matrix: Solid

Sample Type: Grab

BSK Associates Fresno

Metals

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Lead	EPA 6010B	ND	50	mg/kg	1	A610484	08/11/16	08/15/16	

BSK Associates Fresno
Metals Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
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EPA 6010B - Quality Control

Batch: A610484

Prepared: 8/11/2016

Prep Method: EPA 3050B

Analyst: NYY

Blank (A610484-BLK2)

Lead	ND	50	mg/kg							08/15/16
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Blank Spike (A610484-BS2)

Lead	100	50	mg/kg	100		101	75-125			08/15/16
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Blank Spike Dup (A610484-BSD2)

Lead	100	50	mg/kg	100		100	75-125	1	20	08/15/16
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Matrix Spike (A610484-MS2), Source: A6H0541-01

Lead	98	50	mg/kg	100	ND	98	75-125			08/15/16
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Matrix Spike Dup (A610484-MSD2), Source: A6H0541-01

Lead	94	50	mg/kg	100	ND	94	75-125	4	20	08/15/16
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Certificate of Analysis

Notes:

- The Chain of Custody document and Sample Integrity Sheet are part of the analytical report.
- Any remaining sample(s) for testing will be disposed of according to BSK's sample retention policy unless other arrangements are made in advance.
- All positive results for EPA Methods 504.1 and 524.2 require the analysis of a Field Reagent Blank (FRB) to confirm that the results are not a contamination error from field sampling steps. If Field Reagent Blanks were not submitted with the samples, this method requirement has not been performed.
- Samples collected by BSK Analytical Laboratories were collected in accordance with the BSK Sampling and Collection Standard Operating Procedures.
- J-value is equivalent to DNQ (Detected, not quantified) which is a trace value. A trace value is an analyte detected between the MDL and the laboratory reporting limit. This result is of an unknown data quality and is only qualitative (estimated). Baseline noise, calibration curve extrapolation below the lowest calibrator, method blank detections, and integration artifacts can all produce apparent DNQ values, which contribute to the un-reliability of these values.
- (1) - Residual chlorine and pH analysis have a 15 minute holding time for both drinking and waste water samples as defined by the EPA and 40 CFR 136. Waste water and ground water (monitoring well) samples must be field filtered to meet the 15 minute holding time for dissolved metals.
- Summations of analytes (i.e. Total Trihalomethanes) may appear to add individual amounts incorrectly, due to rounding of analyte values occurring before or after the total value is calculated, as well as rounding of the total value.
- RL Multiplier is the factor used to adjust the reporting limit (RL) due to variations in sample preparation procedures and dilutions required for matrix interferences.
- Due to the subjective nature of the Threshold Odor Method, all characterizations of the detected odor are the opinion of the panel of analysts. The characterizations can be found in Standard Methods 2170B Figure 2170:1.
- The MCLs provided in this report (if applicable) represent the primary MCLs for that analyte.

Definitions

mg/L:	Milligrams/Liter (ppm)	MDL:	Method Detection Limit	MDA95:	Min. Detected Activity
mg/Kg:	Milligrams/Kilogram (ppm)	RL:	Reporting Limit: DL x Dilution	MPN:	Most Probable Number
µg/L:	Micrograms/Liter (ppb)	ND:	None Detected at RL	CFU:	Colony Forming Unit
µg/Kg:	Micrograms/Kilogram (ppb)	pCi/L:	Picocuries per Liter	Absent:	Less than 1 CFU/100mLs
%:	Percent Recovered (surrogates)	RL Mult:	RL Multiplier	Present:	1 or more CFU/100mLs
NR:	Non-Reportable	MCL:	Maximum Contaminant Limit		

Please see the individual Subcontract Lab's report for applicable certifications.

BSK is not accredited under the NELAC program for the following parameters:

NA

Certifications: Please refer to our website for a copy of our Accredited Fields of Testing under each certification.

San Bernardino - CA ELAP	2993		
Fresno			
State of California - ELAP	1180	State of Hawaii	4021
State of Nevada	CA000792016-1	State of Oregon - NELAC	4021
EPA - UCMR3	CA00079	State of Washington	C997-16
Sacramento			
State of California - ELAP	2435		
Vancouver			
State of Oregon - NELAC	WA100008-008	State of Washington	C824-15



A6H0667



08042016

Fresn4842

Turnaround: Standard
Due Date: 8/18/2016



Fresno County Department of Public Works Planning





1414 Stanislaus St., Fresno, CA 93706
(559) 497-2888 - Fax (559) 497-2893
www.bs&kassociates.com

☒ Turnaround Time Request
Standard - 10 business days
☐ Rush (Surcharge may apply)
Date needed:

A6H0667
Fresno4842

08/04/2016
10



*Required Fields

Temp: 23.4

Phone:

Fax:

Company/Client Name: Fresno County Department of Public Works

Report Attention: Steve Deis
Additional cc's:

Invoice To: Fresno County Public Works
PO#: 5101700070
City: Fresno State: Ca. Zip: 93702

559-600-7895

559-600-7620

Address: 4553 E. Hamilton Ave. Bldg. 413

City: Fresno

State: Ca. Zip: 93702

E-mail: sdeis@co.fresno.ca.us

Project: Travers Creek Bridge on Manning

Project #: J11126

How would you like to receive your completed results?
☒ E-Mail ☐ Fax ☐ Mail

Reporting Options:

☐ Trace (J-Flag) ☐ Swamp ☐ EDD Type: _____

Sampler Name (Printed/Signature):

Raj Singh

Regulatory Carbon Copies
☐ SWRCB (Drinking Water) ☐ Merced Co ☐ Madera Co ☐ Tulare Co ☐ Other: _____

Regulatory Compliance
☐ EDT to California SWRCB (Drinking Water) System Number: _____
☐ Geotracker # _____

Total Lead By EPA 6010

STLC Decision

Asbestos 600/R-93/116

Matrix Types SW=Surface Water BW=Bottled Water GW=Ground Water WW=Waste Water STW=Storm Water DW=Drinking Water SO=Solid

Comments / Station Code / WTRAX

Total Lead By EPA 6010

STLC Decision

Asbestos 600/R-93/116

Comments / Station Code / WTRAX

Comments / Station Code / WTRAX

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Total Lead By EPA 6010

STLC Decision

Asbestos 600/R-93/116

Comments / Station Code / WTRAX

Comments / Station Code / WTRAX



External



A6H0667



A6H0667
Fresn4842

08/04/2016

10



Sample Integrity

BSK Bottles: Yes NoPage 1 of 1

COC Info	Was temperature within range? Chemistry $\leq 6^{\circ}\text{C}$ Micro $< 10^{\circ}\text{C}$	Yes	<u>No</u>	NA	Were correct containers and preservatives received for the tests requested?	<u>Yes</u>	No	NA
	If samples were taken today, is there evidence that chilling has begun?	Yes	No	<u>NA</u>	Were there bubbles in the VOA vials? (Volatiles Only)	Yes	No	<u>NA</u>
	Did all bottles arrive unbroken and intact?	<u>Yes</u>	No		Was a sufficient amount of sample received?	<u>Yes</u>	No	
	Did all bottle labels agree with COC?	<u>Yes</u>	No		Do samples have a hold time <72 hours?	Yes	<u>No</u>	
	Was sodium thiosulfate added to CN sample(s) until chlorine was no longer present?	Yes	No	<u>NA</u>	Was PM notified of discrepancies? PM: _____ By/Time: _____	Yes	No	<u>NA</u>
Bottles Received	250ml(A) 500ml(B) 1Liter(C) 40ml VOA(V)	Checks	Passed?					
	Bacti $\text{Na}_2\text{S}_2\text{O}_3$	—	—					
	None (P) White Cap	—	—					
	Cr6 (P) Br. Green Label/Blue Cap $\text{NH}_4\text{OH}(\text{NH}_4)_2\text{SO}_4$ DW	Cl, pH > 8	Y N					
	Cr6 (P) Pink Label/Blue Cap $\text{NH}_4\text{OH}(\text{NH}_4)_2\text{SO}_4$ WW	pH 9.3-9.7	Y N					
	Cr6 (P) Black Label/Blue Cap $\text{NH}_4\text{OH}(\text{NH}_4)_2\text{SO}_4$ 7199 ***24 HOUR HOLD TIME***	pH 9.0-9.5	Y N					
	HNO_3 (P) Red Cap	—	—					
	H_2SO_4 (P) or (AG) Yellow Cap/Label	pH < 2	Y N					
	NaOH (P) Green Cap	Cl, pH > 10	Y N					
	$\text{NaOH} + \text{ZnAc}$ (P)	pH > 9	Y N					
	Dissolved Oxygen 300ml (g)	—	—					
	None (AG) 608/8081/8082, 625, 632/8321, 8151, 8270	—	—					
	HCl (AG) Lt. Blue Label O&G, Diesel	—	—					
	$\text{Na}_2\text{O}_3\text{S} + \text{HCl}$ (AG) Lt. Pink Label 525	—	—					
	$\text{Na}_2\text{S}_2\text{O}_3$ 1 Liter (Brown P) 549	—	—					
	$\text{Na}_2\text{S}_2\text{O}_3$ (AG) Blue Label 547, 515, 548, THM, 524	—	—					
	$\text{Na}_2\text{S}_2\text{O}_3$ (CG) Blue Label 504, 505	—	—					
	$\text{Na}_2\text{S}_2\text{O}_3 + \text{MCAA}$ (CG) Orange Label 531	pH < 3	Y N					
	NH_4Cl (AG) Purple Label 552	—	—					
	EDA (AG) Brown Label DBPs	—	—					
	HCL (CG) 524.2, BTEX, Gas, MTBE, 8260/624	—	—					
	Buffer pH 4 (CG)	—	—					
	None (CG)	—	—					
	H_3PO_4 (CG) Salmon Label	—	—					
	Other:							
	Asbestos 1Liter Plastic w/ Foil	—	—					
	Low Level Hg / Metals Double Baggie	—	—					
	Bottled Water	—	—					
Clear Glass Jar: 250 / 500 / 1 Liter	—	—						
Soil Tube Brass / <u>Steel</u> / Plastic	—	—						
Tedlar Bag / <u>Plastic Bag</u>	—	—						
Split	Container	Preservative	Date/Time/Initials	Container	Preservative	Date/Time/Initials		
	S P			S P				
Comments	S P			S P				

Labeled by: [Signature] @ [Signature]Labels checked by: JLW @ 1846RUSH Paged by: [Signature] @ [Signature]



LA Testing

620 Mission Street South Pasadena, CA 91030

Tel/Fax: (323) 254-9960 / (323) 254-9982

http://www.LATesting.com / pasadenalab@latesting.com

LA Testing Order: 321616936

Customer ID: 32BSK50

Customer PO:

Project ID:

Attention: Michelle Kawaguchi
BSK Analytical Laboratories
1414 Stanislaus Street
Fresno, CA 93706

Phone: (559) 497-2888

Fax:

Received Date: 08/09/2016 4:30 PM

Analysis Date: 08/22/2016 - 08/23/2016

Collected Date: 07/14/2016

Project: A6H0667

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

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
A6H0667-01 321616936-0001	Travers Creek Bridge, N/E Wingwall and Barrier, S-1	Gray/White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
A6H0667-02 321616936-0002	Travers Creek Bridge, N/E Wingwall and Barrier, S-2	Gray/White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
A6H0667-03 321616936-0003	Travers Creek Bridge, N/E Wingwall and Barrier, S-3	Gray Non-Fibrous Heterogeneous		100% Non-fibrous (Other)	None Detected

Analyst(s)

Julie Vong (1)

Rosa Mendoza (2)

Jerry Drapala Ph.D, Laboratory Manager
or Other Approved Signatory

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

Samples analyzed by LA Testing South Pasadena, CA NVLAP Lab Code 200232-0, CA ELAP 2283

Initial report from: 08/23/2016 15:25:48

