

Limited Hazardous Materials Survey

Little Tujunga Canyon Road Bridge Replacement over Buck Canyon Creek Project

Prepared by
Los Angeles County Department of Public Works
Construction Division
Environmental Compliance Unit
November 14, 2017

Project No. RDC0014790 PCA No. D250000323

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Attachment 4 – LACDPW 60% Preliminary Plan Drawings dated 9/15/16

1. INTRODUCTION

This letter report summarizes the hazardous materials sampling conducted for the Little Tujunga Canyon Road Bridge Replacement over Buck Canyon Creek Project located at 14465 Little Tujunga Canyon Road, Sylmar in Los Angeles County, California 91342.

The Los Angeles County Department of Public Works (LACDPW) is proposing to remove and replace the existing bridge structure.

In order to prepare specific project bid specifications, a limited structure survey for potentially hazardous materials including asbestos, lead based paint (LBP), and Treated Wood Waste (TWW) was conducted for suspect materials impacted by the proposed project. The sampling was conducted on October 31, 2017 by Construction Division – Environmental Compliance Unit (CON-ECU), Marie Tullai, a California Division of Occupational Safety and Health (DOSH) Certified Asbestos Consultant (CAC) and California Department of Public Health Certified Lead Inspector/Assessor (CDPH I/A) and David Simon, a DOSH CAC and Certified Lead Project Monitor (CDPH PM).

Sampling was limited to the items impacted by the "Little Tujunga Canyon Road Bridge Replacement over Buck Canyon Creek" 60% Preliminary Plan Drawings dated September 15, 2016 provided by LACDPW Design Division (Attachment 4).

2. SITE DESCRIPTION

The Little Tujunga Canyon Road Bridge over Buck Canyon Creek is located at 14465 Little Tujunga Canyon Road, Sylmar, in Los Angeles County, California. The project consists of removing and replacing the existing bridge structure.

3. OBJECTIVE

The purpose of the field sampling activities was to determine if lead, asbestos, or any other suspected regulated hazardous materials will be impacted by the proposed project referenced above.

4. METHODOLOGY

Lead Surface Coatings

Samples were collected, labeled, and delivered under strict chain of custody to AETL, in Burbank, California who subcontracted the analysis to LA Testing Laboratories, an Environmental Lead Laboratory Accreditation Program (ELLAP) accredited laboratory. The paint chip samples were analyzed for lead by Environmental Protection Agency (EPA) method 7420.

Asbestos Containing Materials (ACM)

The sample was collected, labeled, and delivered under strict chain of custody to AETL who subcontracted the analysis to LA Testing Laboratories, a National Voluntary Laboratory Accreditation Program (NVLAP) accredited laboratory in South Pasadena, California. Analysis for asbestos was conducted by EPA method 600/R-93/116 using polarized light microscopy.

Treated Wood Waste (TWW)

According to Title 22, California Code of Regulations (CCR), Section 67386 "Alternative Management Standards for Treated Wood Waste" generators of TWW can presume their TWW to be hazardous waste and bypass the laboratory analysis. Pressure treated wood was observed and presumed to be TWW for handling and disposal purposes.

5. RESULTS

Lead Surface Coatings

A list of suspect lead-based paints sampled and their results are presented in Table 1.

		Le	Tabl ad Analyt	le 1 ical Results		
Sample No.	Substrate	Location	Color	Lead Concentration (parts per million [ppm])	Classification*	Photo No.
103101	Metal	Beam (underside of bridge, near center)	Grey	290	LCP	3

		Le	Tab	le 1 ical Results		***
Sample No.	Substrate	Location	Color	Lead Concentration (parts per million [ppm])	Classification*	Photo No.
103102	Metal	Beam (underside of bridge at northwest corner)	Grey (shiny) with Orange under layer	170,000	LBP	4
103103	Metal	"A" Frame Beam (southeast portion of bridge)	Grey	160	LCP	5
103104	Metal	Pole at apex of "A" Frame (east side of bridge)	Black with Orange under layer	89,000	LBP	6
103105	Asphalt	Traffic Striping Paint (center of bridge)	Yellow	None Detected <100	Non-Lead	7
103106	Asphalt	Traffic Striping Paint (east side of bridge)	White	None Detected <100	Non-Lead	8

Sample results in bold exceeded the concentrations that qualify as lead containing or lead based paint.

*LBP = Lead Based Paint

LCP = Lead Containing Paint

LBP is defined by the CDPH, Title 17, CCR, Division 1, Chapter 8, as paint containing 5,000 ppm, 0.5 percent by weight, or 1 milligram per square centimeter (mg/cm²) by X-Ray Fluorescence (XRF) analysis or greater. LCP is paint that does not qualify as LBP, but still contains detectable quantities of lead.

The State of California, Department of Occupational Safety and Health (Cal/OSHA), Title 8, California Code of Regulations (CCR) 1532.1 applies to all construction work where an employee may be occupationally exposed to lead. Where lead is present in any quantity, (Title 8, CCR 1532.1 Appendix B) Cal/OSHA requires an initial determination of whether any worker's exposure to lead exceeds the Action Level (AL) of 30 micrograms per cubic meter (μg/m³) averaged over an 8-hour day.

When conducting activities defined by Title 8, CCR 1532.1 (d)(2)(A) as "trigger tasks", such as manual demolition, manual scraping, manual sanding, heat gun applications, abrasive blasting, cutting, welding, or torch burning, the employer shall treat the employee as if the employee were exposed to lead above the Permissible Exposure Limit (PEL) of 50 μ g/m³ averaged over an 8-hour day, and implement employee protective measures per Title 8, CCR 1532.1(d)(2)(E). Required employee protection measures include appropriate respiratory protection, personal protective clothing, change areas, hand washing facilities, biological monitoring, and training.

Sample No. 103102 (Photo No. 4) and Sample No. 103104 (Photo No. 6) had lead concentrations that met or exceeded the 5,000 ppm threshold to be defined as a LBP. These samples were collected from the grey (shiny) paint with orange under layer on the metal beams supporting the bridge and the black paint with the orange under layer on the metal poles at the apex of the timber "A" frame on the sides of the bridge.

Sample No. 103101 (Photo No. 3) and Sample No. 103103 (Photo No. 5) had detectable lead concentrations below 5,000 ppm. These samples were collected from the grey paint on the metal beams supporting the bridge and the grey paint on the metal beams of the "A" frame on the sides of the bridge.

No lead was detected in Sample No. 103105 (Photo No. 7) and Sample No. 103106 (Photo No. 8) which were collected from the yellow and white paint striping on the road surface of the bridge based on the limitations of the analysis method.

The laboratory results and chain of custody record for the lead-paint chip samples are included as Attachment 2.

Asbestos Containing Materials (ACM)

A list of suspect asbestos containing materials sampled and their results are presented in Table 2.

	Table 2 Asbestos Analytical Results						
Sample No.	Location	Material	Asbestos Type and Content	Friability	Classification	Photo No.	
103107	Wood "A" Frame (northwest portion of bridge)	Grey Mastic	10% Chrysotile	No	ACM	9	

ACM is defined by the Occupational Safety and Health Administration (OSHA) 29 CFR 1001 and Cal/OSHA Title 8, Section 1529 as any material containing greater than 1% asbestos. Cal/OSHA further defines an asbestos containing construction material (ACCM) as any manufactured construction material which contains more than 1/10th of 1% asbestos by weight.

Sample No. 103107 (Photo No. 9) which was collected from the grey mastic on the "A" frame timber was found to contain asbestos at a concentration that defines this material as ACM. The analytical laboratory report and chain of custody record are included as Attachment 3.

Treated Wood Waste

The pressure treated timber observed on the exterior of the Headworks structure is assumed to contain creosote (Photo Nos. 9, 10, and 11). Based on this assumption the timber is regulated under Title 22, CCR, Section 67386 "Alternative Management Standards for Treated Wood Waste".

6. CONCLUSIONS AND RECOMMENDATIONS

Lead Surface Coatings

The grey (shiny) paint with the orange under layer on the metal beams supporting the bridge and the black paint with the orange under layer on the metal poles at the apex of the timber "A" frame on the sides of the bridge contain concentrations of lead greater than the regulatory level of 5,000 ppm of lead and are considered LBP.

The grey paint on the metal beams supporting the bridge and the grey paint on the metal beams of the "A" frame on the sides of the bridge contain detectable levels of lead below 5,000 ppm. Although these paints did not meet or exceed the level of 5,000 ppm for LBP, these surface coatings contain detectable levels of lead and are regulated by Cal/OSHA. Any areas of peeling or deteriorating paint shall be stabilized to prevent loose and flaking paint from becoming detached and impacting the surrounding environment. The paint shall be abated in any areas that may require cutting.

Cal/OSHA, Title 8, CCR 1532.1 requires the employer to treat any employee conducting any of several "trigger tasks" commonly associated with renovation and demolition activities such as torching, manual demolition, or using non-HEPA (high-efficiency particulate air) equipped tools or vacuums as if they were exposed above the PEL of 50 µg/m³ until an exposure assessment shows otherwise. Renovation or demolition of components coated with LBP or other lead-containing materials will require workers who are appropriately certified, trained, and employ proper work methods and protective equipment to minimize exposure to themselves and the surrounding environment.

Painted surfaces in areas not accessible, and which were not tested for lead content, cannot be presumed to be free of lead. Therefore, if renovation or demolition activities reveal paint types that were not sampled, additional sampling would be required prior to activities that would disturb the painted surfaces unless those surfaces are presumed to contain lead.

Asbestos

The grey mastic on the "A" frame timber contains asbestos and is considered to be ACM. Suspect asbestos materials in areas not accessible at the time of the hazardous materials survey, and which were not tested for asbestos content, cannot be presumed to be free of asbestos. Therefore, if renovation or demolition activities reveal suspect asbestos materials that were not sampled, additional sampling would be required prior to activities that would disturb the suspect asbestos materials unless those surfaces are presumed to contain asbestos.

Other Hazardous Materials

The existing timber to be removed from the bridge structure is categorized as TWW and shall be removed and disposed of per Title 22, CCR, Section 67386 "Alternative Management Standards for Treated Wood Waste". This regulation also requires the employer to provide training for all employees handling TWW and all employees that may reasonably be expected to contact TWW.

Prepared By:

Marie Tullai, CIH CAC #92-0219

CDPH Lead I/A #11088

Andh

Reviewed By:

David Simon CAC #92-0005

CDPH Lead PM #24204

Attachments:

Attachment 1 – Site Photos

Attachment 2 – Lead, Analytical Report and Chain-of-Custody Record

Attachment 3 – Asbestos, Analytical Report and Chain-of-Custody Record

Attachment 4 – LACDPW 60% Preliminary Plan Drawings dated 9/15/16

Approved By	6	Construction Division	Date
Jam &	ng	Environmental Compliance Unit	1-2-18

Attachment 1

Site Photos



PROJECT NAME

Replacement over Buck Canyon Creek Little Tujunga Canyon Road Bridge

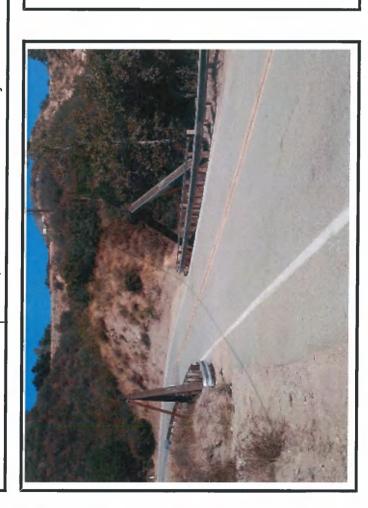
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OF



PROJECT PHOTOGRAPHIC NUMBER

View looking up at the bridge from the bed of Buck DESCRIPTION

Canyon Creek.

PHOTOGRAPHED BY

09/20/2017

DATE

D. Simon

PHOTOGRAPHED BY

View of the bridge looking toward the northwest.

DESCRIPTION

PROJECT PHOTOGRAPHIC NUMBER

D. Simon

09/20/2017 DATE



LOS ANGELES COUNTY DEPARTMENT OF PUBLIC WORKS

CONSTRUCTION DIVISION PHOTOGRAPHIC RECORD

	D230000323
PROJECT	No.
Little Tujunga Canyon Road Bridge	Replacement over Buck Canyon Creek
PRO IECT NAME	

OF



PROJECT PHOTOGRAPHIC NUMBER	OGRAP	HIC NUMBER		3
DESCRIPTION	Under	Underside of beam with grey paint under bridge.	ey paint	under bridge.
Lead Paint Samp	e No. 10	Lead Paint Sample No. 103101. 290 ppm, LCP	_	
PHOTOGRAPHED BY	D BY	D. Simon	DATE	10/31/2017

	paint with	0,000 ppm, LBP	10/31/2017
4	ey (shiny) p	03102. 17	DATE
PROJECT PHOTOGRAPHIC NUMBER	Underside of beam with grey (shiny) paint with	orange under layer. Lead Paint Sample No. 103102. 170,000 ppm, LBP	D. Simon
TOGR/	Dud	yer. Le	IED BY
PROJECT PHO	DESCRIPTION	orange under la	PHOTOGRAPHED BY



PROJECT NAME

Replacement over Buck Canyon Creek Little Tujunga Canyon Road Bridge

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PROJECT PHOTOGRAPHIC NUMBER	OGRAP	HIC NUMBER		ನಿ
DESCRIPTION	"A" Fra	DESCRIPTION "A" Frame Beam with grey paint. Lead Paint	paint. Le	ead Paint
Sample No. 103103. 160 ppm, LCP.	03. 160	ppm, LCP.		
PHOTOGRAPHED BY		D. Simon	DATE	10/31/2017

	n metal pole at	300 ppm, LBP.	10/31/2017
9	der layer o	3104. 89,0	DATE
PHIC NUMBER	Black paint with orange under layer on metal pole at	apex of "A" Frame. Lead Paint Sample No. 103104. 89,000 ppm, LBP.	D. Simon
TOGRA		ne. Lead	ED BY
PROJECT PHOTOGRAPHIC NUMBER	DESCRIPTION	apex of "A" Fran	PHOTOGRAPHED BY



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Replacement over Buck Canyon Creek Little Tujunga Canyon Road Bridge

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7	ead Paint Sample
PROJECT PHOTOGRAPHIC NUMBER	Yellow Road Striping. Le
PROJECT PHOT	DESCRIPTION

No. 103105. No lead detected.

DATE D. Simon PHOTOGRAPHED BY

10/31/2017

8	
PROJECT PHOTOGRAPHIC NUMBER	
PROJEC	

White Road Striping. Lead Paint Sample No. 103106. No lead detected. DESCRIPTION

D. Simon PHOTOGRAPHED BY

10/31/2017 DATE



PROJECT NAME

Replacement over Buck Canyon Creek Little Tujunga Canyon Road Bridge

D250000323 PROJECT No.

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e of bridge.		09/20/2017
nderside		DATE
d Wood Timber at ur		D. Simon
Treate		D BY
DESCRIPTION		PHOTOGRAPHED BY
	DESCRIPTION Treated Wood Timber at underside of bridge.	

10/31/2017

DATE

D. Simon

PHOTOGRAPHED BY

10% chrysotile asbestos, ACM.

Grey Mastic. Asbestos Sample No. 103107.

DESCRIPTION

PROJECT PHOTOGRAPHIC NUMBER



Little Tujunga Canyon Road Bı
Replacement over Buck Canyon Creel



PROJECT PHOTOGRAPHIC NUMBER	OGRAP	HIC NUMBER	<u></u>			PROJECT PH
DESCRIPTION	Treate	DESCRIPTION Treated Wood Timber railing.				DESCRIPTION
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PHOTOGRAPHED BY		D. Simon	DATE	09/20/2017		PHOTOGRAP

PROJECT PHOTOGRAPHIC NUMBER	OGRAP	HIC NUMBER		12		
DESCRIPTION	Treate	Treated Wood Timber at bridge abutments.	dge abu	tments.		1
						_
PHOTOGRAPHED BY	D BY	D. Simon	DATE	09/2	09/20/2017	1

Attachment 2

Lead, Analytical Report and Chain-of-Custody Record



2834 & 2908 North Naomi Street Burbank, CA 91504 • DOHS NO: 1541, LACSD NO: 10181 Tel: (888) 288-AETL • (818) 845-8200 • Fax: (818) 845-8840 • www.aetlab.com

Ordered By

LA County Dept. of Public Works GMED Materials Lab 900 S. Fremont Ave, 4th Floor

Alhambra, CA 91803-

Telephone: (626) 458-5100 Attention: Robert Larson

Number of Pages	3
Date Received	10/31/2017
Date Reported	11/09/2017

Job Number	Order Date	Client
90055	10/31/2017	LACDPW

Project ID: RDC0014790

Project Name: Little Tujunga Rd.

Site:

Little Tujunga Canyon Rd.

Sylmar, CA

Enclosed please find results of analyses of 6 solid samples which were analyzed as specified on the attached chain of custody. If there are any questions, please do not hesitate to call.

Attachment: 3 pages

Checked By:

Approved By: C. Ray

Cyrus Razmara, Ph.D. Laboratory Director



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CHAIN OF CUSTODY RECORD

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PHONE (3.0) 850-4-85 ADDRESS LYHLETUTUNGS CANYON Rd, Sylman, CA 18CN-1200395 SAMPLER 30 -He Timmer Clover Pude Con Britain Branco N. NUMBER/SIZE CONTAINER Dag B 2 DATA DELIVERABLE REQUIRED SAMPLE RECEIPT - TO BE FILLED BY LABORATORY MATRIX by lk BUIL DOLK 00 ☐ HARD COPY

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COOLER RECEIPT FORM

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Client Name: LACDPW					
Project Name:	1				
AETL Job Number: 90055 5/	90	رچر	61		il i
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Inside temperature of shipping container No 1					
Type of sample containers: VOA, Glass bo	ottles, [] Wide	e mouth ja	rs, 🗆 HDPE bo	ottles,
☐ Metal sleeves, X Others (Specify): Plant	The second secon	ln	4		
How are samples preserved: ■ None, ■ Ice,			🖒 Dry Ice	:	
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_ Other (Specify):					
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1 A 4 - COC - C 49	¥.es.	No,	explain below	Name, if client	was notified.
1. Are the COCs Correct?	X				
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5. Is there enough samples for required analysis?	X				
6. Are samples sealed with evidence tape?	MA				
7. Are sample containers in good condition?	X				
8. Are samples preserved?	×				
9. Are samples preserved properly for the	X				
intended analysis?					
10. Are the VOAs free of headspace?	NA			-	
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GMED Materials Lab 900 S. Fremont Ave,
4th Floor

Alhambra, CA 91803-

Telephone: (626)458-5100 Attention: Robert Larson Project ID: RDC0014790

Date Received 10/31/2017

Date Reported 11/09/2017

Job Number	Order Date	Client
90055	10/31/2017	LACDPW

CERTIFICATE OF ANALYSIS CASE NARRATIVE

AETL received 6 samples with the following specification on 10/31/2017.

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
90055.01	103101	10/31/2017	Solid	1
90055.02	103102	10/31/2017	Solid	1
90055.03	103103	10/31/2017	Solid	1
90055.04	103104	10/31/2017	Solid	1
90055.05	103105	10/31/2017	Solid	1
90055.06	103106	10/31/2017	Solid	1
Metho	d ^ Submethod	Reg 1	Date Priority	TAT Units

Method ^ SubmethodReq DatePriorityTATUnits(7420)11/07/20172Normalmg/Kg

The samples were analyzed as specified on the enclosed chain of custody. No analytical non-conformances were encountered.

Unless otherwise noted, all results of soil and solid samples are based on wet weight.

	1		C. Raymona	
Checked By: _		Approved By:	3	

Cyrus Razmara, Ph.D. Laboratory Director



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ANALYTICAL RESULTS

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LA County Dept. of Public Works

GMED Materials Lab

900 S. Fremont Ave, 4th Floor

Alhambra, CA 91803-

Telephone: (626)458-5100 Attn: Robert Larson

Page:

2

Project ID: Project Name: RDC0014790

Little Tujunga Rd.

Site

Little Tujunga Canyon Rd.

Sylmar, CA

AETL Job Number	Submitted	Client
90055	10/31/2017	LACDPW

Method: (7420), Total Lead QC Batch No: 321725758

		QC Datti	NO: 321723730				
Our Lab I.D.		Method Blank	90055.01	90055.02	90055.03	90055.04	
Client Sample I.D.				103101	103102	103103	103104
Date Sampled				10/31/2017	10/31/2017	10/31/2017	10/31/2017
Date Prepared		100	11/02/2017	11/02/2017	11/02/2017	11/02/2017	11/02/2017
Preparation Method	·		3050B	3050B	3050B	3050B	3050B
Date Analyzed	•		11/02/2017	11/02/2017	11/02/2017	11/02/2017	11/02/2017
Matrix			Solid	Solid	Solid	Solid	Solid
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			1	1	1	1	1
Analytes	MDL	PQL	Results	Results	Results	Results	Results
Lead	100	100	ND	290	170,000	160	89,000



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ANALYTICAL RESULTS

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GMED Materials Lab

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Telephone: (626)458-5100 Attn: Robert Larson

Page:

Project ID: Project Name:

RDC0014790

Little Tujunga Rd.

Little Tujunga Canyon Rd.

Sylmar, CA

Site

AETL Job Number	Submitted	Client
90055	10/31/2017	LACDPW

Method: (7420), Total Lead QC Batch No: 321725758

Our Lab I.D.			90055.05	90055.06	
Client Sample I.D.			103105	103106	
Date Sampled			10/31/2017	10/31/2017	
Date Prepared			11/02/2017	11/02/2017	
Preparation Method			3050B	3050B	
Date Analyzed			11/02/2017	11/02/2017	
Matrix			Solid	Solid	
Units			mg/Kg	mg/Kg	
Dilution Factor			1	1	
Analytes	MDL	PQL	Results	Results	
Lead	100	100	ND	ND	



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Data Qualifiers and Descriptors

Data Qualifier:

#: Recovery is not within acceptable control limits.

*: In the QC section, sample results have been taken directly from the ICP reading. No preparation factor has

been applied.

B: Analyte was present in the Method Blank.

D: Result is from a diluted analysis.

E: Result is beyond calibration limits and is estimated.

H: Analysis was performed over the allowed holding time due to circumstances which were beyond laboratory

control.

J: Analyte was detected. However, the analyte concentration is an estimated value, which is between the Method

Detection Limit (MDL) and the Practical Quantitation Limit (PQL).

M: Matrix spike recovery is outside control limits due to matrix interference. Laboratory Control Sample recovery

was acceptable.

MCL: Maximum Contaminant Level

NS: No Standard Available

S6: Surrogate recovery is outside control limits due to matrix interference.

S8: The analysis of the sample required a dilution such that the surrogate concentration was diluted below the

method acceptance criteria.

X: Results represent LCS and LCSD data.

Definition:

%Limi: Percent acceptable limits.

%REC: Percent recovery.

Con.L: Acceptable Control Limits

Conce: Added concentration to the sample.

LCS: Laboratory Control Sample

MDL: Method Detection Limit is a statistically derived number which is specific for each instrument, each method,

and each compound. It indicates a distinctively detectable quantity with 99% probability.



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Data Qualifiers and Descriptors

MS:

Matrix Spike

MS DU:

Matrix Spike Duplicate

ND:

Analyte was not detected in the sample at or above MDL.

PQL:

Practical Quantitation Limit or ML (Minimum Level as per RWQCB) is the minimum concentration that can

be quantified with more than 99% confidence. Taking into account all aspects of the entire analytical

instrumentation and practice.

Recov:

Recovered concentration in the sample.

RPD:

Relative Percent Difference



LA Testing

520 Mission Street, South Pasadena, CA 91030

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

ING http://www.LATesting.com

pasadenalab@latesting.com

CustomerID: CustomerPO:

LA Testing Order: 321725758 32AETL21 22394-SUB

ProjectID:

Attn: Jim Lin

American Environmental Testing Lab, Inc. 2834 North Naomi Street

Phone: Fax:

(818) 845-8200 (818) 845-8840

Received:

11/01/17 12:50 PM

Collected:

10/31/2017

Burbank, CA 91504

Project: 90055

Test Report: Lead in Paint Chips by Flame AAS (SW 846 3050B/7000B)*

Client Sample Des	c ription Lab ID Colle	cted Analyzed	Lead
90055-01	321725758-0001 10/31	/2017 11/2/2017	Concentration
	Site: Solid		290 ppm
0055-02	321725758-0002 10/31	/2017 11/2/2017	
	Site: Solid		170000 ppm
0055-03	321725758-0003 10/31	/2017 11/2/2017	
	Site: Solid		160 ppm
0055-04	321725758-0004 10/31	2017 11/2/2017	
	Site: Solid		89000 ppm
0055-05	321725758-0005 10/31	2017 11/2/2017	
	Site: Solid		<100 ppm
0055-06	321725758-0006 10/31/	2017 11/2/2017	
	Site: Solid	· · · · · · · · · · · · · · · · · · ·	<100 ppm

Jerry Drapala Ph.D, Laboratory Manager or other approved signatory

*Analysis following Lead in Paint by EMSL SOP/Determination of Environmental Lead by FLAA. Reporting limit is 0.010 % wt based on the minimum sample weight per our SOP. Unless noted, results in this report are not blank corrected. 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. Samples received in good condition unless otherwise noted. "<" (less than) result signifies that the analyte was not detected at or above the reporting limit. Measurement of Definitions of modifications are available upon request.

Samples analyzed by LA Testing South Pasadena, CA CA ELAP 2283, AIHA-LAP, LLC ELLAP 102814

Initial report from 11/02/2017 15:29:37

OrderID: 321725758

Chain of Custody
EMSL Order Number (Lab Use Only):
321725758#

LATESTING 520 MISSION STREET S. PASADENA, CA 91030

PHONE: (800) 303-0047 FAX: (323) 254-9982

			FAX. (323) 234-98		
Company: AETL		EMSL-Bill to: Same Different If Bill to is Different note instructions in Comments**			
Street: 2834 N. Naom	i 51,				
City: Burbanle.	State/Province: C/A	Zip/Postal Code	Billing requires written authorization from third party		
Report To (Name): -Tim (1-	Fax #: 8/8-	0, 5 0060		
	1200				
Project Name/Number: 900		Email Address:	Jim Lasters, com		
U.S. State Samples Taken: CA		icut Samples:	Kesults: Fax Email Mail		
	Turnaround Time (TA	T) Ontions* - Pl	Commercial Residential		
3 Hour 6 Hour	2/1 More 40 ta .				
"ror RUSH TATS Please of Materials Science and I	Call Ahead to Confirm Lab Hou				
		Totalor Brain Flours	Not all TAT options are valid for every test. i.e. 24 Hour = End of Next Business Day)		
PCM - Air	PLM - Bulk	bestos			
☐ NIOSH 7400	PLM EPA 600/R-93/11	16	TEM - Bulk		
w/8hr. TWA	PLM EPA NOB (<1%)		TEM EPA NOB		
TEM-Air 4-4.5hr TAT (AHERA ONLY) AHERA 40 CFR, Part 763	NYS 198.1 (friable-NY))	NYS NOB 198.4 (non-friable-NY) Chatfield SOP		
☐ NIOSH 7402	NYS 198.6 (non-friable	-NY)_	Soil/Rock/Vermiculite		
☐ EPA Level II	Point Count 400 (<0.2 Point Count w/ Gravimetric	5%) 🔲 1000 (<0.1	1%) PLM CARB 435 - A (0 25% constitute)		
ISO 10312 TEM - Water	☐ 400 (<0.2	5%) 🔲 1000 (<0.1	LI PLM CARB 435 - B (0.1% constitution)		
Fibers >10µm	IEM - Dust		1%) TEM CARB 435 – B (0.1% sensitivity) EPA Reg. 1 Screening Protocol (Qualitative)		
All Fiber Sizes Waste Drinking	☐ Microvac - ASTM D 57	55	Other:		
	ead (Pb)				
Flame Atomic Absorption		100	Materials Science		
M Chips SW846-7000B or AOAC 974 0	2 Air NIOSH 730	ICP Modified	Common Particle ID (large particles)		
☐ Soil SW846-7000B/7420 ☐ Air NIOSH 7082	□non ASTM Wipe	s SW846-6010B o	L Full Particle ID (environmental duet)		
Wastewater SM3111B or SW846-7000B	LIASTM Wipe SV	V846-6010B or C	O10B or C		
LIAS IM Wipe SW846-7000B/7420	/7420 Soil SW846-60	10 B or C	Physical Testing (Tensile, Compression)		
Linon ASTM Wipe SW846-7000R/7420	☐ Waste Water S	W846-6010B or C	Combustion-by-products (soot, char, etc.)		
LJ TCLP SW846-1311/7420/SM 3111B	TCLP SW846-6	010B or C			
Graphite Furnace Atomic Abs ☐ Soil SW846-7421 ☐ Wastewater	Orption Other		X-Ray Fluorescence (elem. analysis) X-Ray Diffraction (Crystalline Part.)		
	EPA 200.9 er EPA 200.9		LI MMVFS (Fibrous glass RCF's)		
	robiology		Particle Size (sieve/microscopy/laser)		
Wipe and Bulk Samples	Air Samples		Combustible Dust		
☐ Mold & Fungi – Direct Examination	Mold & Fungi (Spore	Fran\	Petrographic Examination		
Mold & Fungi Culture (Genus Only)			Other:		
Mold & Fungi Culture (Genus & Species)	☐ Mold & Fungi Culture ☐ Mold & Fungi (Genus	(Genus Only)	IAQ		
Bacterial Count & ID (Up to Three Types)	Bacterial Culture & ID (U	a species)	Nuisance Dust NIOSH05000600		
☐ Bacterial Count & ID (Up to Five Types) ☐ MRSA	☐ Bacterial Culture & ID (Ur	o to Five Types)	Airborne Dust PM10 TSP		
☐ Pseudomonas aeruginosa	L Endotoxin Testing		Silica Analysis: All Species Silica Analysis - Single Species		
Water Samples	Real Time Q-PCR (See Ar Code:	nalytical Guide for Co	ode) Alpha Quartz Cristobalite Tridymite		
☐ Total Coliform & E.coli (P/A)	Legionella		LJ HVAC Efficiency		
☐ Fecal Coliform (SM 9222D)	Level 1 Level 2 Le	1010 11 - 14	Carbon Black		
☐ Sewage Screen	Other:	vei 3 [_]Levei 4	Airborne Oil Mist		
Heterotrophic Plate Count (SM 9215)			Radon Testing: Call for Kit and COC		
**Comments/Special Instructions:			Oner.		
Client Sample #s 90055.3					
	7 90055.06	To	otal # of Samples: ろ次		
Relinquished (Clientifleus At	un Date: //-/-//		ime: (257)		
Received (Lab): (Trans) (WIT)	Date: - -				
Analysis Completed in Accordance with Fac	011		me: 12:50Pm		

OrderID: 321725758



Chain of Custody EMSL Order Number (Lab Use Only):

LATESTING 520 MISSION STREET S. PASADENA, CA 91030 PHONE: (800) 303-0047

FAX: (323) 254-9982

Sample #	Sample Description	Volume/Area (A HA # (Bulk)	ir) Date/Time
90055.01	Solid	Ixpl bas	Sampled 10/3//12 110
.02			1 1
.93			110
.04			1/0
.05			110
1.06			110
4 .00	J		1100
mments/Special Instructions:			
	EMSL's Terms and Conditions located in the		1

Attachment 3

Asbestos, Analytical Report and Chain-of-Custody Record



2834 & 2908 North Naomi Street Burbank, CA 91504 • DOHS NO: 1541, LACSD NO: 10181 Tel: (888) 288-AETL • (818) 845-8200 • Fax: (818) 845-8840 • www.aetlab.com

Ordered By

LA County Dept. of Public Works GMED Materials Lab 900 S. Fremont Ave, 4th Floor

Alhambra, CA 91803-

Telephone: (626) 458-5100 Attention: Robert Larson

Number	of	Pages	2
--------	----	-------	---

Date Received 10/31/2017 Date Reported 11/09/2017

Job Number	Order Date	Client
90056	10/31/2017	LACDPW

Project ID:

RDC0014796

Project Name: Little Tujunga Canyon Rd.

Site:

Little Tujunga Canyon Rd.

Sylmar, CA

Enclosed please find results of analyses of 1 solid sample which was analyzed as specified on the attached chain of custody. If there are any questions, please do not hesitate to call.

Attachment: 3 pages

Checked By:

Approved By: C. Raymana

Cyrus Razmara, Ph.D. Laboratory Director



COMPANOPOW COMPANY ADDRESS

SAMPLE

01201

American Environmental Testing Laboratory Inc.

2834 & 2908 North Naomi Street, Burbank, CA 91504 • DOHS NO: 1541, LACSD NO: 10181 Tel: (888) 288-AETL • (818) 845-8200 • Fax: (818) 845-8840 • www.aetlab.com

CHAIN OF CUSTODY RECORD

8008 2

mtullai Odpw. lacounty 31 rlavsen Odpus, lacounty, a FEST INSTRUCTIONS & COMMENTS GMail Resoltsto. 3 က် Page of GREW MOSTIC Ahi, 18/Qate Printed Name LAMORATO 500× Ime Time ANALYSIS REQUESTED Printed Name rinted Name Signature AETL JOB No. 87.8 40,920,94 7 Marci Cob Levison Manie Tollei PHONE (312) \$50-4488 SITE IN THE TOWN OF THE ROLL CONTAIN PLANT STEIN SITE NAME SITE NA With Townga Rd over Back canyon "Encombrance No, PRES. ADDRESS Little Toliving Ganyon Rd, Sylman, OH 18CN-ADOJ95 (C) SAMPLER inted Name Signature CONTAINER NUMBER/SIZE 1094 DATA DELIVERABLE REGUIRED SAMPLE RECEIPT - TO BE FILLED BY LARORATORY MATRIX 91005, Freewart Aut, Albambra, OLA 91803 FAX PROJECT NAME holk ☐ GEOTRACKER (GLOBAL ID) ☐ OTHER (PLEASE SPECIFY) _ PROPERLY COOLED Y/N/NA SAMPLES INTACT Y/ N / NA SAMPLES ACCEPTED Y IN TIME 281 HARD COPY 17 12 01 DATE SAME DAY
DEXT DAY
2 DAYS
3 DAYS 90056.01 TURN AROUND TIME TOTAL NUMBER OF CONTAINERS RECEIVED IN GOOD COND. /Y /M NORMAL RUSH CUSTODY SEALS Y/ N/MA

DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator



2834 North Naomi Street Burbank, CA 91504 • DOHS NO: 1541, LACSD NO: 10181 Tel: (888) 288-AETL • (818) 845-8200 • Fax: (818) 845-8840 • www.aetlab.com

COOLER RECEIPT FORM

DOWN TO THE OWNER OF THE PROPERTY OF THE PROPE	#####################################
Client Name: LACDPW	
Project Name:	/
AETL Job Number: 90055 5	902561
	eived by: Lean Naudo
Carrier: AETL Courier A Client	■ GSO ☐ FedEx ☐ UPS
□Others:	
./ 1	
Samples were received in: Cooler ()	Other (Specify):
Inside temperature of shipping container No 1	
Type of sample containers: VOA, Glass be	
☐ Metal sleeves, Others (Specify): Plant	is las
How are samples preserved: None, Ice,	Blue Ice, Dry Ice
None, HNO _{3, 1}	NaOH, ZnOAc, HCl, Na ₂ S ₂ O ₃ MeOH
Other (Specify):	
·	
٠.	Yes No, explain below Name, it client was nofified
1. Are the COCs Correct?	X
2. Are the Sample labels legible?	X
3. Do samples match the COC?	X
4. Are the required analyses clear?	X
5. Is there enough samples for required analysis?	X
6. Are samples sealed with evidence tape?	MA
7. Are sample containers in good condition?	X
8. Are samples preserved?	×
9. Are samples preserved properly for the	×
intended analysis?	1.0
10. Are the VOAs free of headspace?	1/2
11. Are the jars free of headspace?	4
The second of th	1. 1000 E. A. HOLLEY TO D. G. C. E. C. T. YARRING D. G. C. METTING
Explain all "No" answers for above questions:	



2834 & 2908 North Naomi Street Burbank, CA 91504 • DOHS NO: 1541, LACSD NO: 10181 Tel: (888) 288-AETL • (818) 845-8200 • Fax: (818) 845-8840 • www.aetlab.com

Page: 1 A Ordered By

LA County Dept. of Public Works
GMED Materials Lab 900 S. Fremont Ave,
4th Floor

Alhambra, CA 91803-

Telephone: (626)458-5100 Attention: Robert Larson Project ID: RDC0014796

Date Received 10/31/2017

Date Reported 11/09/2017

Jo	ob Number	Order Date	Client
	90056	10/31/2017	LACDPW

CERTIFICATE OF ANALYSIS CASE NARRATIVE

AETL received 1 samples with the following specification on 10/31/2017.

Lab ID Sample ID		Sample Date Matrix				Quantity Of Containers	
90056.01	103107	10/31/2017	Sol	id		1	
Metho	od ^ Submethod	Req	Date	Priority	TAT	Units	
EPA-6	00R-93/116	11/07	/2017	2	Normal	Percent	

The samples were analyzed as specified on the enclosed chain of custody. No analytical non-conformances were encountered.

Unless otherwise noted, all results of soil and solid samples are based on wet weight.

C. Kayman	
_	C. Kaymana

Cyrus Razmara, Ph.D. Laboratory Director



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ANALYTICAL RESULTS

Site

Sylmar, CA

Little Tujunga Canyon Rd.

Ordered	Bv
---------	----

LA County Dept. of Public Works GMED Materials Lab 900 S. Fremont Ave, 4th Floor

Alhambra, CA 91803-

Telephone: (626)458-5100 Attn: Robert Larson

Page:

Project ID:

RDC0014796

Project Name: Little Tujunga Canyon Rd.

	AETL	Job	Number	Submitted	Client
90056		10/31/2017	LACDPW		

Method: EPA-600F	R-93/116, A	sbestos by	Polarized Light M	Aicroscopy Aı	nalysis (PLM)	
Our Lab I.D.			90056.01			
Client Sample I.D.			103107			
Date Sampled			10/31/2017			
Date Prepared			10/31/2017			
Preparation Method			EPA600R93			
Date Analyzed			11/07/2017			
Matrix			Solid			
Units			Percent			
Dilution Factor			1			
Analytes	MDL	PQL	Results			
Asbestos, Total	1.0	1.0	10.0			



LA Testing

520 Mission Street South Pasadena, CA 91030

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

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

American Environmental Testing Lab, Inc.

2834 North Naomi Street Burbank, CA 91504

LA Testing Order: 321726114

Customer ID: 32AETL21

Customer PO: Project ID:

> Phone: (818) 845-8200

(818) 845-8840 Fax: Received Date: 10/31/2017 1:50 PM

Analysis Date: 11/07/2017

Collected Date:

Project: 90056

Attention: Jim Lin

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

			Non-A	sbestos	Asbestos
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Туре
90056.01	Solid	Black Fibrous		90% Non-fibrous (Other)	10% Chrysotile
321726114-0001		Homogeneous			

Analyst(s)

Rosa Mendoza (1)

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-friable organically bound materials present a problem matrix and therefore EMSL recommends gravimetric reduction prior to analysis. Samples received in good condition unless otherwise noted. Estimated accuracy, precision and uncertainty data available upon request. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample. Reporting limit is 1%

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

Initial report from: 11/07/2017 12:21:46



Chain of Custody EMSL Order Number (Lab Use Only):

#32172611

LATESTING
520 MISSION STREET
S. PASADENA, CA 91030
PHONE: (800) 303 0047

PHONE: (800) 303-0047 FAX: (323) 254-9982

Company: AETL			Bill to: Same Different fferent note instructions in Comments*		
Street: 2834 N.Naomi	<t.< td=""><td></td><td>quires written authorization from third party</td></t.<>		quires written authorization from third party		
	State/Province: CA		TOY Country: UA		
		Ent. 210 24	7 - 7740 Purchase Order: 22340-		
Report To (Name): Jim L	100				
Telephone #: 212-245-2	200		im La ASTCAR WY		
	056		: Fax Email Mail		
U.S. State Samples Taken:		T) Options* - Please C			
	Hour 48 Hour		96 Hour 1 Week 2 Week		
*For RUSH TATs Please C	all Ahead to Confirm Lab Ho	urs and Availability. Not all T	AT options are valid for every test. lour = End of Next Business Day)		
		bestos			
PCM - Air	PLW Bulk		TEM - Bulk		
■ NIOSH 7400	PLM EPA 600/R-93/1		☐ TEM EPA NOB		
w/8hr. TWA	☐ PLM EPA NOB (<1%)		NYS NOB 198.4 (non-friable-NY)		
TEM-Air 4-4.5hr TAT (AHERA ONLY)	NYS 198.1 (friable-N' NYS 198.6 (non-friable		Chatfield SOP Soil/Rock/Vermiculite		
☐ AHERA 40 CFR, Part 763 ■ NIOSH 7402	Point Count 400 (<0.	25%) 1000 (<0.1%)	PLM CARB 435 – A (0.25% sensitivity)		
■ EPA Level (I	Point Count w/ Gravimet	ric	☐ PLM CARB 435 – B (0.1% sensitivity)		
☐ ISO 10312		25%) 🔲 1000 (<0.1%)	TEM CARB 435 – B (0.1% sensitivity)		
TEM - Water	TEM - Dust Microvac - ASTM D 5	755	EPA Reg 1 Screening Protocol (Qualitative) Other:		
Fibers ≥ 10µm ☐ Waste ☐ Drinking ☐ All Fiber Sizes ☐ Waste ■ Drinking	☐ Wipe-ASTM D6480	733	Other.		
	ead (Pb)		Materials Science		
Flame Atomic Absorption		ICP	Common Particle ID (large particles)		
Chips SW846-7000B or AOAC 974.0		300 Modified	Full Particle ID (environmental dust)		
Soil SW846-7000B/7420		pe SW846-6010B or C	Basic Material ID (solids)		
Air NIOSH 7082		SW846-6010B or C	Advanced Material ID		
☐ Wastewater SM3111B or SW846-7000B ■ASTM Wipe SW846-7000B/7420	1		■ Physical Testing (Tensile, Compression)		
non ASTM Wipe SW846-7000B/7420	☐ Waste Water	SW846-6010B or C	Combustion-by-products (soot, char, etc.)		
TCLP SW846-1311/7420/SM 3111B	■ TCLP SW846		X-Ray Fluorescence (elem. analysis)		
Graphite Furnace Atomic Abs		<u>r:</u>	X-Ray Diffraction (Crystalline Part)		
Soil SW846-7421 Wastewater Air NIOSH 7105 Drinking Wa	ter EPA 200.9		■ MMVFs (Fibrous glass, RCF's) ■ Particle Size (sieve/microscopy/laser)		
	crobiology		Combustible Dust		
	Air Samples		■ Petrographic Examination		
Wipe and Bulk Samples Mold & Fungi – Direct Examination	Mold & Fungi (Spo	re Trap)	Other:		
Mold & Fungi Culture (Genus Only)	☐ Mold & Fungi Cultu	ire (Genus Only)	IAQ		
☐ Mold & Fungi Culture (Genus & Species)	☐ Mold & Fungi (Gen	us & Species)	Nuisance Dust NIOSH 10500 10600		
Bacterial Count & ID (Up to Three Types)	Bacterial Culture & ID		Airborne Dust ■ PM10 □ TSP		
Bacterial Count & ID (Up to Five Types)	Bacterial Culture & ID Endotoxin Testing	(Up to Five Types)	Silica Analysis: All Species Silica Analysis - Single Species		
☐ MRSA ☐ Pseudomonas aeruginosa		e Analytical Guide for Code)	Alpha Quartz Cristobalite Tridymite		
Water Samples	Code:	o, man, man, and man, and man,	■ HVAC Efficiency		
☐ Total Coliform & E.coli (P/A)	Legionella		Carbon Black		
Fecal Coliform (SM 9222D)	Level 1 Level 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 90056	01	Tota	I # of Samples: っん		
Relinquished (Client Lucies Kal					
Received (Lab):	Date: 6/3/	7) 7 Time	127 - 15		
Received Laul.	Date. Cal all	// A limit	5/5/16		

OrderID: 321726114

Chain of Custody EMSL Order Number (Lab Use Only):

#3- 25114

LATESTING 520 MISSION STREET S. PASADENA, CA 91030 PHONE (800) 303-0047 FAX. (323) 254-9982

Sample #	Sample Description		Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
90056.01	Sold.		IxPL bug	10/3/1/2 1100
			H to	
			#32172	6114
		etilihenen istemanyken kalendaren ila		
		- 		
		and the second s		
*Comments/Special Instruction	ons:			

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



American Environmental Testing Laboratory Inc.

2834 & 2908 North Naomi Street, Burbank, CA 91504 • DOHS NO: 1541, LACSD NO: 10181 Tel: (888) 288-AETL • (818) 845-8200 • Fax: (818) 845-8840 • www.aetlab.com

Data Qualifiers and Descriptors

Data Qualifier:

#: Recovery is not within acceptable control limits.

In the QC section, sample results have been taken directly from the ICP reading. No preparation factor has

been applied.

B: Analyte was present in the Method Blank.

D: Result is from a diluted analysis.

E: Result is beyond calibration limits and is estimated.

H: Analysis was performed over the allowed holding time due to circumstances which were beyond laboratory

control.

J: Analyte was detected . However, the analyte concentration is an estimated value, which is between the Method

Detection Limit (MDL) and the Practical Quantitation Limit (PQL).

M: Matrix spike recovery is outside control limits due to matrix interference. Laboratory Control Sample recovery

was acceptable.

MCL: Maximum Contaminant Level

NS: No Standard Available

S6: Surrogate recovery is outside control limits due to matrix interference.

S8: The analysis of the sample required a dilution such that the surrogate concentration was diluted below the

method acceptance criteria.

X: Results represent LCS and LCSD data.

Definition:

%Limi: Percent acceptable limits.

%REC: Percent recovery.

Con.L: Acceptable Control Limits

Conce: Added concentration to the sample.

LCS: Laboratory Control Sample

MDL: Method Detection Limit is a statistically derived number which is specific for each instrument, each method,

and each compound. It indicates a distinctively detectable quantity with 99% probability.



American Environmental Testing Laboratory Inc.

2834 & 2908 North Naomi Street, Burbank, CA 91504 • DOHS NO: 1541, LACSD NO: 10181 Tel: (888) 288-AETL • (818) 845-8200 • Fax: (818) 845-8840 • www.aetlab.com

Data Qualifiers and Descriptors

MS:

Matrix Spike

MS DU:

Matrix Spike Duplicate

ND:

Analyte was not detected in the sample at or above MDL.

PQL:

Practical Quantitation Limit or ML (Minimum Level as per RWQCB) is the minimum concentration that can

be quantified with more than 99% confidence. Taking into account all aspects of the entire analytical

instrumentation and practice.

Recov:

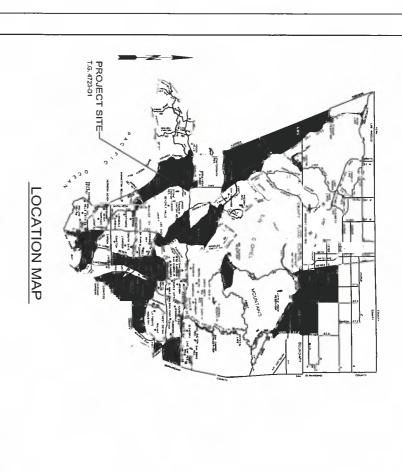
Recovered concentration in the sample.

RPD:

Relative Percent Difference

Attachment 4

LACDPW 60% Preliminary Plan Drawings Dated 9/15/16



COUNTY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS LITTLE TUJUNGA CANYON ROAD

BRIDGE REPLACEMENT
OVER

BUCK CANYON CREEK
PROJECT ID NO. RDC0014790

PACCINAL PROJECT SITE

ANGELES

NATIONAL FOREST

VICINITY MAP

VICINITY MAP

VICINITY MAP

INDEX TO PLANS

SHEET TITLE

PLAN B

1. TITLE SHEET

2. GENERAL PLAN

3. REMOVAL PLAN

4. REMOVAL DETAILS

5. DECK CONTOURS

6. DECK CONTOURS

6. FOUNDATION PLAN

7. TYPICAL SECTION

8. PRESTRESSED GIRDER DETAILS

9. TUBULAR HAND RAILING

REPROVED CALL FARBER DIRECTOR OF PUBLIC WORKS

BY DEPUTY DIRECTOR OF PUBLIC WORKS

BY ASSISTANT DEPUTY DIRECTOR DESIGN

DATE

DATE

MK DESCRIPTION

PROJECT RANGEST ON

AND PR

1-800-227-2600

TWO DAYS BEFORE YOU DIG

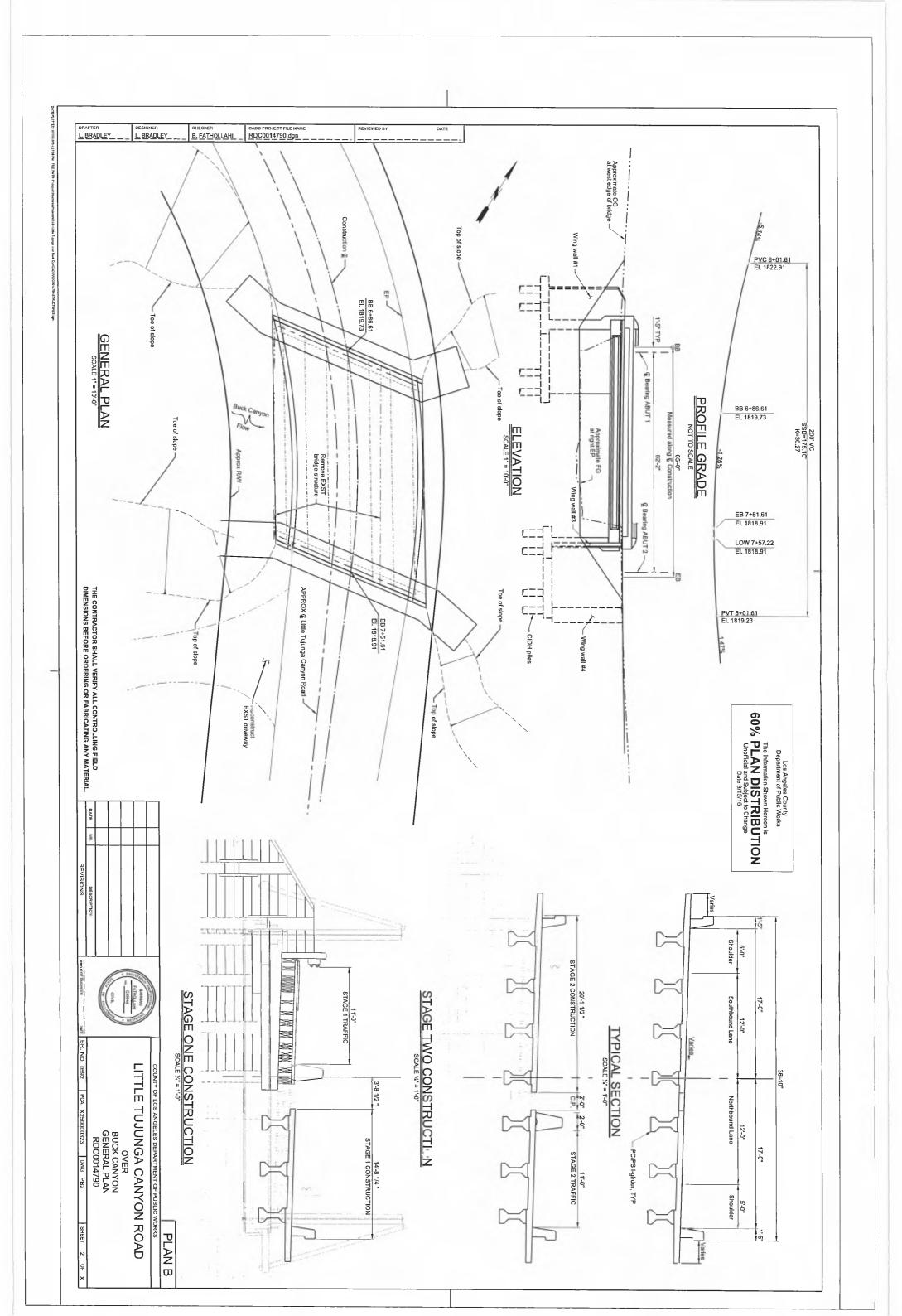
The Information Shown Hereon is
60% PLAN DISTRIBUTION
Unofficial and Subject to Change
Date 9/15/16

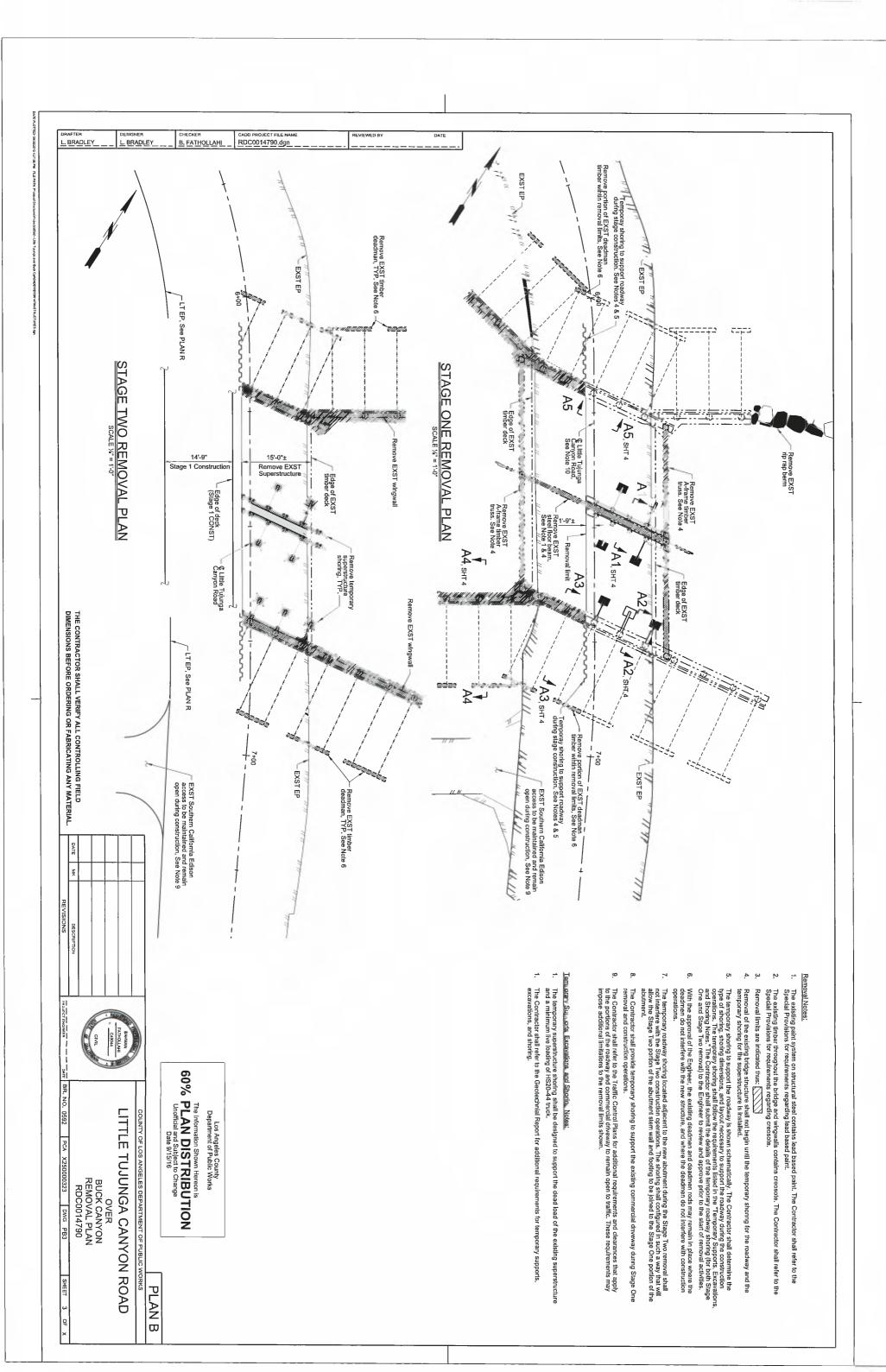
Los Angeles County Department of Public Works

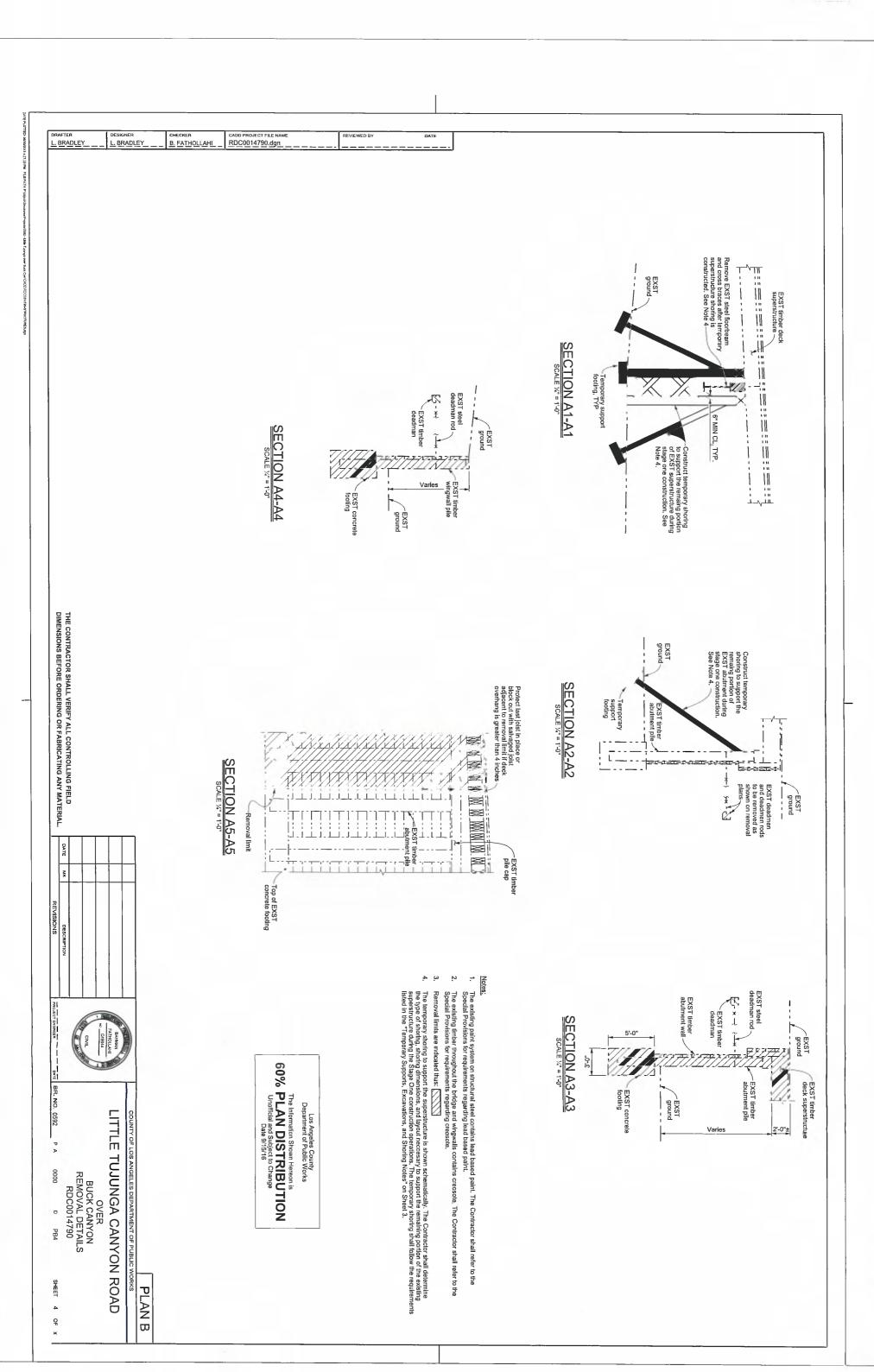
LITTLE TUJUNGA CANYON ROAD

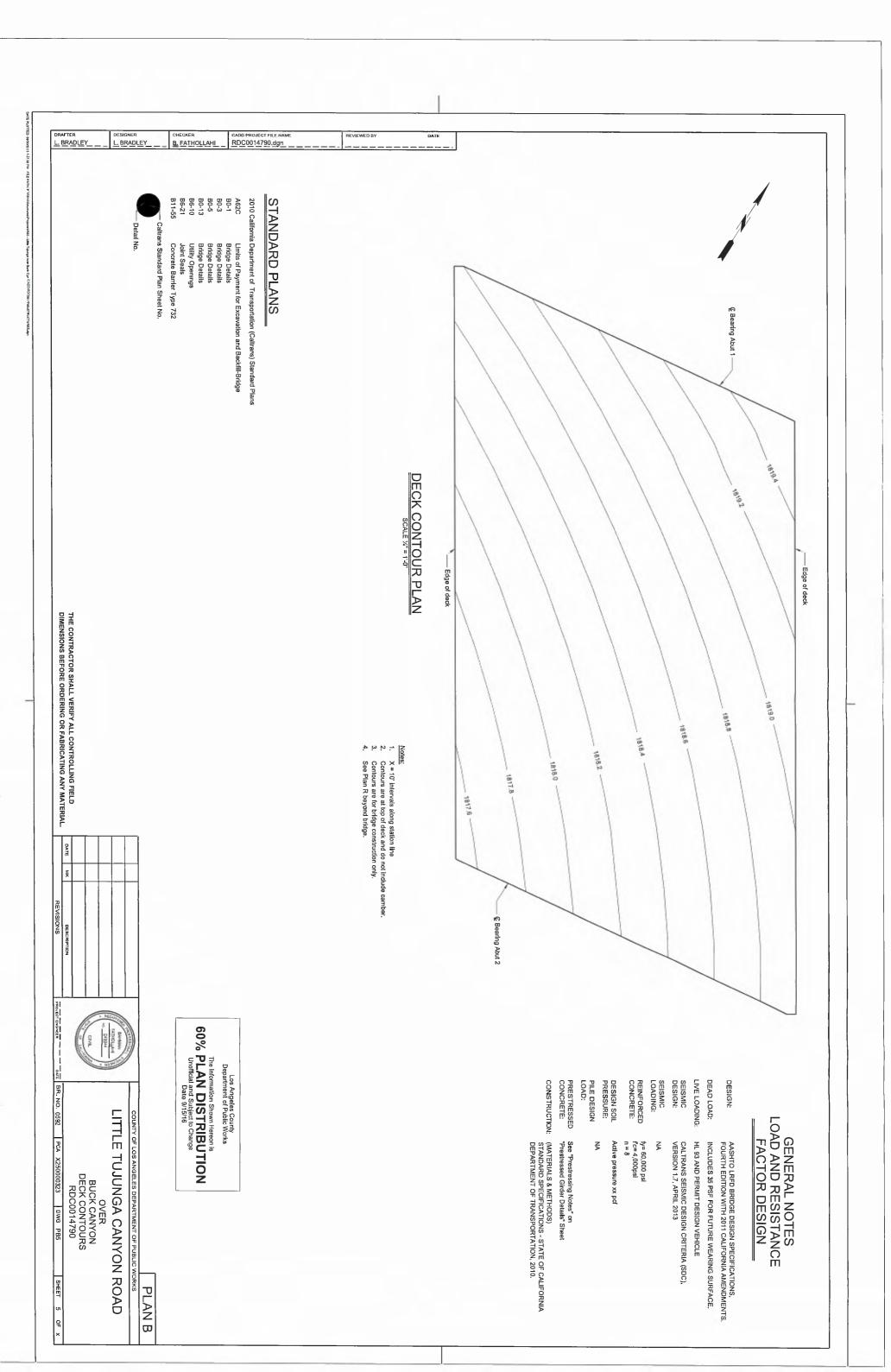
PLAN B

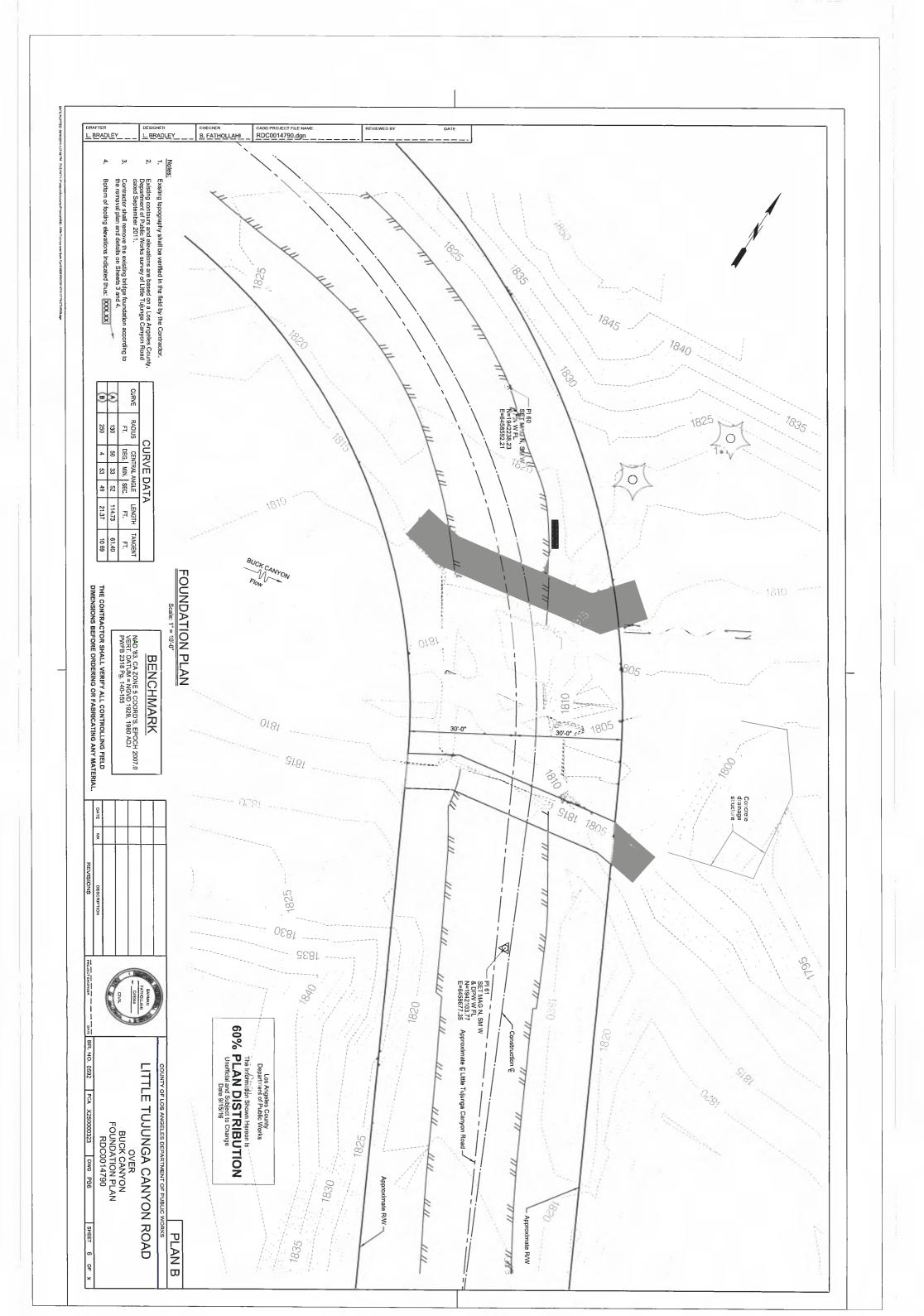
OVER
BUCK CANYON CREEK
TITLE SHEET











DRAFTER
L. BRADLEY DESIGNER L. BRADLEY CADD PROJECT FILE NAI RDC0014790.dgn Tubular hand railing, TYP see Note x * Utility hangers shall consist of 1" dia. X 9" lg. bolts in pairs @ 10± Embed 4" in concrete. Bolt shall be 1"-8UNC-2, thread 6". Furnish 2 nuts per bolt. All parts to be galvanized. 2'-7 1/2" TYP TAN-1-4"-1'-8" - © 1'-4" x 2'-6" Utility Opening (Future) 17'-0" Top of PC/PS girder THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL. Profile grade – 6 Spaces @ 5'-3" = 31'-6" 36'-10" Bottom of deck slab - € PC/PS I-girder, TYP 7° TYP 17'-0" PROJECT ENGINEER Application of CONQ. CONQ. The Information Shown Hereon is 60% PLAN DISTRIBUTION Unofficial and Subject to Change Date 9/15/16 11° varies Los Angeles County Department of Public Works LITTLE TUJUNGA CANYON ROAD COUNTY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS TYP -OVER
BUCK CANYON
TYPICAL SECTION
RDC0014790

