



Invoice

Date	Invoice #
2/28/2020	2654

12631 E. Imperial Hwy. Suite # A225 Santa Fe Springs, CA 90670

Bill To :	
CALSTATE LA	
Finance Department	
Attn: Admin 514	
5151 State University Drive	
Los Angeles CA 90032	

Jobsite Adress :	
CALSTATE LA	
Northend of King Hall	
5151 State University Drive	

Los Angeles, CA 90032

Department Contact		Purchase Order No.	n No. Terms		Project		
JEF	RRY MIERS				Net 30	72318 - King Hal	
Item	Description			Invoiced	Rate	Amount	
	DEPARTMENT CO	NTACT: JERRY MIERS					
A-S-Limited	Asbestos Survey- S DOSH CSST	ite Inspection & Sample Coll	ection by	1 360.00		360.00	
A-PLM-S		ple Analysis per Layer - Pola		6 20.00		120.00	
Light Microscopy (PLM) via EPA 600/R-93/116 Method. By NVLAP accredited laboratory per layer- TAT / 24 hrs							
A-R	Asbestos Findings Report by CA DOSH Certified Asbestos Consultant (CAC)			1	150.00	150.00	
						1 tops.	
Thank you for your business!				Total		\$630.00	
Make checks payable to:				Payment	s/Credits	\$0.00	
	erra Environmental Services Inc.			Balance Due \$630.00			



Proposal: 72318

January 30, 2020

JERRY MIERS

Facilities Project Supervisor Facilities Services California State University, Los Angeles 5151 State University Drive Los Angeles, CA 90032 C 323-312-9670

Re: CSULA – North end of King Hall - Transite Pipe Asbestos Survey

Terra Environmental is pleased to provide you with this proposal and cost estimate to perform site specific asbestos survey of transite pipe at North end of King Hall , CSULA, 5151 State University Drive, Los Angeles CA 90032.

The following proposal is provided in good faith, based upon our understanding of the tasks desired. Written client approval will be sought if additional tasks or additional samples are either requested by the client, or recommended by Terra Environmental.

Field Activities and Report Cost Estimate			
Asbestos Survey			
Activity	Quantity	Rate	Subtotal (\$)
Asbestos Survey- Site Inspection & Sample Collection by DOSH CSST	1	\$ 360.00	\$ 360.00
Asbestos Bulk Sample Analysis per Layer - Polarized Light Microscopy (PLM) via EPA 600/R-93/116 Method. By NVLAP accredited laboratory per layer- TAT / 24 hrs	6	\$ 20.00	\$ 120.00
Asbestos Findings Report by CA DOSH Certified Asbestos Consultant	1	\$ 150.00	\$ 150.00
Incidental Expenses			***
Report Writing	Included	Included	Included
Lab weekend fee	N/A	2	2

Project Total (Estimated) \$ 630.00

Note: Any additional samples and/or surveys requested by client will be charged at quoted prices.

No activities outside the scope of work will be performed without prior written consent by Terra Environmental and California State University Los Angeles.



Proposal: 72318

TERMS AND CONDITIONS

The project will be performed on a date agreed upon by California State University Los Angeles and Terra Environmental. The client will grant access to the sites, and provide any additional information concerning the subject areas to Terra Environmental prior to field activities. Terra Environmental will strive to perform the tasks set forth above in a thorough and professional manner consistent with industry standards at the time the work is performed.

The results reported and any opinions by Terra Environmental are for the benefit of the client. The results and opinions set forth by Terra Environmental in the report will be valid as of the date of the report. Terra Environmental assumes no obligation to advise you of any changes that may be later brought to our attention.

Agreement and Acceptance

California State University Los Angeles
Project total: \$ 630.00
King Hall

Asbestos survey (transite pipe)
5151 State University Drive
Los Angeles, CA 90032

Accepted and Agreed	
	Signature
Name	
Date	

Please indicate your acceptance of this proposal by signing and returning to us via email to: Dianam@terraeng.com

ENTIRE AGREEMENT. This Agreement supersedes any and all other Agreements, either oral or written, and contains all of the covenants and agreements between the parties. Each party to this Agreement acknowledges that no representations, inducements, promises or agreements, orally or otherwise, have been made by either party, or anyone acting on behalf of any party to this Agreement, which are not embodied herein, and that no other agreement, statement or promise not contained in this Agreement shall be valid or binding. Any modification of this Agreement will be effective only if it is in writing, signed by the party to be changed.



TO: Jerry Miers
Facilities Project Supervisor
Facilities Services
California State University Los Angeles
5151 State University Drive
Los Angeles, CA 90032

LIMITED ASBESTOS SURVEY REPORT King Hall – Transite Pipe at North end 5151 State University Drive Los Angeles, CA 90032

Date Prepared: February 4, 2020



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I. Executive Summary and Purpose

At the request of Mr. Jerry Miers, Terra Environmental Services conducted a limited asbestos survey at a Transite Pipe located at the North end of King Hall Building at 5151 State University Drive Los Angeles, CA 90032. The Survey was authorized by Mr. Miers in acceptance of Terra Proposal for Asbestos Consulting Services.

II. Scope of services

The scope of this investigation included a visual inspection of the underground utilities Pipe, digital photography of key observations, sample collection of suspect asbestos containing building materials with laboratory analysis of samples, and production of this written report of findings, conclusions, and recommendations.

The building materials included in this assessment are those expected to be impacted during the renovation project. In general, the renovation project will involve the disturbance of the underground utilities' pipes.

III. Visual Survey, Sampling Methodology, and Analytical Procedures

a. Visual Survey

The Visual Survey consisted of a walk-through and visual inspection of the affected building. It included the identification of all suspect asbestos containing materials and the physical touching of suspect ACBM in an effort to determine the friability and condition of said materials.

In surveying the building, we used our training in identifying asbestos-containing materials, our familiarity with building construction and our general experience to locate potential sources of ACM and ACCM.

This evaluation was performed in accordance with the Asbestos-Containing Materials in Buildings rule prepared by the U.S. EPA. Destructive sampling collection methods were used by Terra Environmental on site representative. The asbestos building survey was performed by Mr. Xavier Avila AHERA Certified Asbestos Building Inspector (DOSH CSST Trainee) under the supervision of Mr. Israel Monsalvo a California, Division of Occupational Safety and Health (DOSH)-Certified Asbestos Consultant, CAC #04-3551 on February 03, 2020.

b. Sampling Methodology

The next phase of the survey was the selection of sampling areas and collection of bulk samples. Material sampling areas were grouped based on material homogeneity. A homogeneous material is one, which contains the same texture, color, and uniform, applied during the same general time period. Terra employed destructive sampling



methods for the collection of bulk samples. All sampled materials were in good condition at the time of the inspection and sample collection.

c. Analytical Procedures

The PLM Method is the most commonly used method to analyze building materials for the presence of asbestos. This method utilizes the optical properties of minerals to identify the selected constituent. The use of this method enables identification of the type and the percentage of asbestos in a given sample. The detection limit of the PLM method for asbestos identification is about one percent (1%) asbestos.

Because the State of California recognizes asbestos-containing construction material (ACCM) as any material, which contains greater than or equal to one tenth of one percent (0.1%) asbestos, materials containing "trace" amounts of asbestos are reported by Terra Environmental as ACCM in the State of California.

Terra Environmental collected a total of six (6) bulk samples of suspect ACM. The samples were transferred following proper chain of custody protocol to LA Testing located at 520 Mission Street South Pasadena, CA 91030, for analysis.

LA Testing is an accredited laboratory for bulk asbestos analysis under the National Institute of Standards and Technology, National Voluntary Laboratory Accreditation Program (Certification Number 200232-0). The samples were analyzed by Polarized Light Microscopy (PLM) with optical dispersion staining in accordance with the United States Environmental Protection Agency (EPA) Method (EPA 600/M4-82-020 per 40 CFR 763, subpart F, Appendix A).

IV. Discussion of Survey Findings and Recommendations

ASBESTOS

Asbestos-containing material (ACM) means any material containing more than 1% asbestos. Asbestos Standard for Construction 29 CFR 1926.1101.

Asbestos-Containing Construction Material (ACCM) is defined by California DOSH Title 8, Section 1529 (341.6 Registration Requirements) to mean any manufactured construction material which contains more than 1/10th of 1 percent asbestos by weight.

The visual inspection and bulk sample analysis results revealed the following Asbestos-Containing Materials:



Homogeneous Material	Location	Lab Sample Numbers	Asbestos detected	Quantity	
		A01			
	North Trench SW Corner	A02			
3" Transite Pipe		A03	Chrysotile 17%-18%	100 1 - 5	
		A04	Crocidolite 2% - 3%	100 Ln. Ft.	
		A05			
		A06			

Recommendations for handling ACM:

Asbestos containing materials will be impacted by the renovation project activities.

Removal and disposal of Asbestos containing 3" Transite Pipe must be performed by a California Licensed Asbestos Abatement Contractor, in accordance with all applicable regulations, including but not limited to, 29 CFR 1926.1101 (OSHA), 40 CFR 763 (AHERA), 40 CFR Part 61 (NESHAPS) and 8 CAC 1529 (Cal/OSHA Asbestos), including mandatory and non-mandatory appendices as applicable, and Local Air Quality Management District regulations (SCAQMD 1403).

Should materials different to those identified in this report or, other forms of suspect hazardous materials be discovered during the renovation process, the contractor should be instructed to cease all work activities which may initiate an exposure episode and notify the appropriate management personnel.

V. General Recommendations and Notes

Terra has endeavored to observe the exiting conditions within the subject property using generally accepted procedures. Regardless of the thoroughness of a survey, there is always a possibility some areas containing asbestos were overlooked or were inaccessible, or are different from those at specific sample locations. Therefore, conditions at every location may not be as anticipated by our field representative. In addition, demolition may uncover altered or differing conditions.

Written by:

Israel Monsalvo,

CA DOSH Certified Asbestos Consultant

CAC #04-3551

Terra Environmental Services Inc.



VI. Confidentiality and Limitations

This report has been prepared for the sole use of California State University Los Angeles. Material quantities are, in some cases, listed within this document. Those quantities are not intended to be used for removal bidding purposes. This document also is not intended as a contract manual; work methods and sequence, coordination of participants, applicable codes, engineering controls, required submittals and notifications should in all cases be addressed in a separate and independent bidding and contract document.



Site Photos



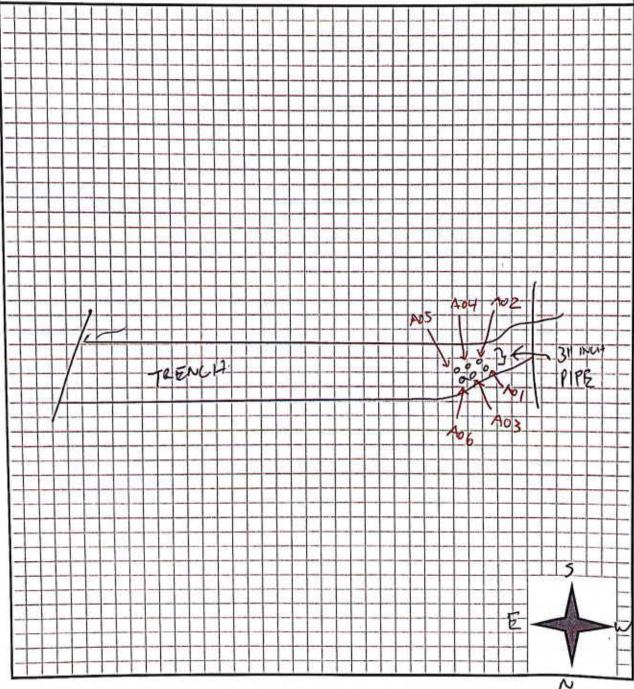


Project # 72318 Date: 02.03.20 Type of Work: AS

Customer

CALSTATE LA. Project Name:

Project Adress: 5151 STATE UNIVERSITY · DR .. LOS ANGRES CA 90032



12631 Imperial Hwy Suite A225 Santa Fe Springs, CA 90670 Tel 562/868-3777 - Fax 562/868-3778 www.terraeng.com



LABORATORY RESULTS AND COC



LA Testing

Attention: Israel Monsalvo

520 Mission Street South Pasadena, CA 91030

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

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

LA Testing Order: 322002163

Customer ID: 32TESV78

Customer PO: Project ID:

Phone: (562) 868-3777

Fax:

Received Date: 02/03/2020 9:30 AM

Analysis Date: 02/03/2020

Collected Date:

Santa Fe Springs, CA 90670

Terra Environmental Services

12631 Imperial Hwy

Suite A225

Project: Cal State L.A. | 5151 State University Dr. Los Angeles CA 90032

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

			Non-As	sbestos	Asbestos
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Type
A01	North trench SW corner pipe 1 - 3"	Brown/Gray Fibrous		80% Non-fibrous (Other)	18% Chrysotile 2% Crocidolite
322002163-0001	Transite pipe	Homogeneous			
A02	North trench SW corner pipe 2 - 3"	Gray Fibrous		80% Non-fibrous (Other)	18% Chrysotile 2% Crocidolite
322002153-0002	Transite pipe	Homogeneous			
A03	North trench SW	Gray		80% Non-fibrous (Other)	17% Chrysotile
322002163-0003	corner pipe 3 - 3" Transite pipe	Fibrous Homogeneous			3% Crocidolite
A04	North trench SW	Gray		80% Non-fibrous (Other)	18% Chrysotile
322002163-0004	corner pipe 4 - 3" Transite pipe	Fibrous Homogeneous			2% Crocidolite
A05	North trench SW	Gray		80% Non-fibrous (Other)	18% Chrysotile
	corner pipe 5 - 3"	Fibrous			2% Crocidolite
322002163-0005	Transite pipe	Homogeneous			
A06	North trench SW	Gray		80% Non-fibrous (Other)	18% Chrysotile
	corner pipe 6 - 3"	Fibrous			2% Crocidolite
322002163-0006	Transite pipe	Homogeneous			

Analyst(s)

Danielle Brand (4) Tania Lopez (2)

Jerry Drapala Ph.D, 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 LA Testing South Pasadena, CA NVLAP Lab Code 200232-0, CA ELAP 2283



#32200216

Job Name - Location - Job Number					Billing Info:					
CAL	STATE	LA			Terra Environ	mental Service	res Inc			
CALSIATE LA. 5151 STATE UNIVERSITY DE. LOS ANGELES CA 70033				Technician: XXX EA A 1 SCA CI A 12631 Imperial Hwy Suite A225/ Santa Fe Springs CA				M.		
DR. LOS ANGELES CA 700			10022		12631 Imperi	al Hwy Suite	A225 Santa Fo	Springs (CA 00760	
		- CIPURS COT	1003		Fmail: israel@	oterraena con	n/ulises@terrae	Springs (A 90700	
Sample		PI M - Ashestos Anal	veis of Ri	ulk Materials via EPA 600/R-			TAT	1	A COLUMN	
Analysi		93/116 Method using	Polarize	d Light Mi	croscopy	U/K-	'A'	ZYHRS.		
ID#		al Description	НМ	Location	Location of Sample		Condition	Friable Quantity		
A01	3 TRANSME PIPE		1		THENCH		897	V	DPPROX.	
7101		HISTIC TIPIZ	1	SW CON	rner p	IPE 1	FAIR		1004	
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www.terraeng.com



CERTIFICATIONS

United States Department of Commerce National Institute of Standards and Technology



Certificate of Accreditation to ISO/IEC 17025:2005

NVLAP LAB CODE: 200232-0

LA Testing

South Pasadena, CA

is accredited by the National Voluntary Laboratory Accreditation Program for specific services, listed on the Scope of Accreditation, for:

Asbestos Fiber Analysis

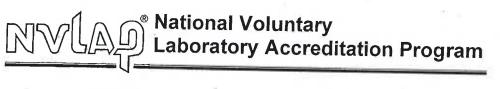
This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005. management system (refer to joint ISO-ILAC-IAF Communique dated January 2009).

2017-07-01 through 2018-06-30

Effective Dates



For the National Voluntary Laboratory Accreditation Program





SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

LA Testing

520 Mission Street South Pasadena, CA 91030 Mr. Jerry Drapala Ph.D.

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

Email: jdrapala@latesting.com http://www.latesting.com

ASBESTOS FIBER ANALYSIS

NVLAP LAB CODE 200232-0

Bulk Asbestos Analysis

Code

Description

18/A01

EPA -- Appendix E to Subpart E of Part 763 -- Interim Method of the Determination of Asbestos in

Bulk Insulation Samples

18/A03

EPA 600/R-93/116: Method for the Determination of Asbestos in Bulk Building Materials

Airborne Asbestos Analysis

Code

Description

18/A02

U.S. EPA's "Interim Transmission Electron Microscopy Analytical Methods-Mandatory and Nonmandatory-and Mandatory Section to Determine Completion of Response Actions" as found in

40 CFR, Part 763, Subpart E, Appendix A.

For the National Voluntary Laboratory Accreditation Program







STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC HEALTH



LEAD-RELATED CONSTRUCTION CERTIFICATE

INDIVIDUAL:

CERTIFICATE TYPE: Lead Inspector/Assessor

Lead Project Monitor

NUMBER:

EXPIRATION DATE:

Israel Monsalvo

LRC-00001220 LRC-00001219 9/1/2020 9/1/2020

Disclaimer: This document alone should not be relied upon to confirm certification status. Compare the individual's photo and name to another valid form of government issued photo identification. Verify the individual's certification status by searching for Lead-Related Construction Professionals at a way of the confirmation of the confirmation

Israel Monsalvo, CAC, CDPH-I/A & PM

Cal/OSHA-Certified Asbestos Consultant #04-3551

CDPH-Certified Lead I/A, PM # 9699