

**Asbestos Bridge
Inspection/Survey**

Moraga Road Bridge

██████████-12096194
██████████ Road
Los Banos, CA 93635

Presented to:

████████████████████
Project Geologist

████████████████████
West Sacramento, CA 95691

Inspection Date:

August 27, 2015

Conducted by:

*Michael J. Lee
Certified Asbestos Consultant
Registered Environmental Property Assessor*

*National Analytical Laboratories, Inc.
2201 Francisco Dr., Ste.140-261
El Dorado Hills, CA 95762
(916) 361-0555 Fax: (916) 361-0540
E-Mail: NAL1@NAL1.com Web Page: www.NAL1.com*





August 28, 2015

[REDACTED]
Project Geologist

[REDACTED]
West Sacramento, CA 95691

RE: **Asbestos Bridge Inspection/Survey**

[REDACTED] Bridge
[REDACTED]-12096194

Dear Ms. Pyatt,

The following report is in regards to the asbestos inspection conducted at the [REDACTED] Road Bridge, located at Moraga Road ([REDACTED]-12096194), in Los Banos, CA. Of the ten (10) suspected asbestos containing sample collected, **one (1) was found to contain asbestos containing construction materials (ACCM)**. Michael J. Lee, Certified Asbestos Consultant and Registered Environmental Property Assessor, for National Analytical Laboratories, Inc. (N.A.L.), conducted the inspection on August 27, 2015.

SUMMARY OF FINDINGS -

Based on the asbestos sample results collected from the specific bridge materials tested, the Black Sealant (approximately ~20 sf) was found to contain ACCM. All square footage should be verified by contractor.

ASBESTOS INSPECTION –

The inspection was completed according to the EPA's Asbestos Containing Building Materials (ACBM) In-Schools Rule; 40 CFR 763.85 (Inspection and Re-Inspection). Currently, EPA regulations classify ACBM as materials containing more than 1-percent (1%) of asbestos. Cal-OSHA currently regulates asbestos to 1/10th of 1% (0.1%) and requires that a certified asbestos worker conduct this work.

There were no as-built drawings to review so only a site visit was conducted. Once at the physical bridge site, Mr. Lee performed an entire bridge walk around and under, to visually assess the bridge structure. The bridge system is a wood-metal rail system, set in a concrete curb set, on a concrete deck system, supported by a concrete pier/column system, set upon a concrete abutment system.

Upon completion of the visual inspection, the suspect asbestos bulk sample materials were collected in accordance with EPA and OSHA protocol. They were placed into new, air tight, plastic bags, sealed, and identified with unique identification numbers. The bulk samples were

transported to the laboratory under chain of custody protocol for analysis.

MicroTest Laboratories, Inc. located in Fair Oaks, California analyzed the bulk suspect asbestos containing samples utilizing Polarized Light Microscopy (PLM) Method. National Voluntary Laboratory Accreditation Program (NVLAP) Certification #200999-0 certifies MicroTest.

Although not all the materials throughout the site were sampled, the like materials that were not tested will be treated as homogeneous to the materials that were tested, and will be considered as containing ACCM.

The location and results of suspect samples found to contain ACCM are as follows:

Sample ID#	Material Description	Sample Location	Category	Results
MRF-9	Black Sealant	North Abutment At Aqueduct Wall- Abutment Intersection (approx. -20 sf)	I	5% Chrysotile

sf = Square Feet; Category I & II are Non-friable/Non-hazardous Materials. Approximate sample locations are depicted in a sample map attached.

As per the National Emission Standards for Hazardous Air Pollutants (NESHAP-40 CFR 61), the Black Sealant is considered Category I Non-Friable Material that can be removed and disposed of at a non-hazardous waste facility.

The following samples were non-asbestos containing materials:

Sample ID#	Material Description	Sample Location	Results
MRB-1	Concrete	Bridge Deck, Rail Curb System, Various Areas (6 hit composite)	None Detected
MRB-2	Concrete	Concrete Deck System, Various Areas (6 hit composite)	None Detected
MRB-3	Concrete	Pier Support System, Various Areas (6 hit composite)	None Detected
MRB-3A	Concrete	Abutment System, Various Areas (6 hit composite)	None Detected
MRB-4	Slurry Cement	Pier System, At Pier-Deck Intersection	None Detected
MRB-5	Concrete	Concrete Deck Slab Joint at Metal	None Detected
MRB-6	Expansion Joint Padding	Concrete Deck, West Side at Slab Joint	None Detected
MRB-7	Asphalt Sealant	Concrete Deck, Center of Deck at Joint	None Detected
MRB-8	Light Gray Rubberized Sealant	Concrete Deck at Slab Joint	None Detected

ASBESTOS RECOMMENDATION –

The Black Sealant is found at the aqueduct wall/abutment intersection on both sides of the bridge (approximately ~20 sf). The depth of the material is not known. Federal and state regulations require that anyone disturbing asbestos containing materials are properly trained certified and have the required respiratory protection and medical surveillance.



N.A.L. recommends that a certified asbestos abatement contractor be retained to remove the non-friable materials prior to any scheduled renovation/demolition work being completed at the site. Prior to the work process starting, a work plan or specifications in regards to the abatement process should be completed and distributed to the abatement contractors during the job walk at the site.

On-Site Observation should be conducted by N.A.L.'s Certified Asbestos Consultant or Certified Site Surveillance Technician to verify that the work plan/specification is being followed. This will verify that during the abatement work the outside air was clean. Once a certified asbestos contractor has removed the ACCM, following EPA and OSHA requirements; a visual inspection and air clearance sampling should be completed. Clearances will confirm that the general contractor can reoccupy the work area(s), without concern for exposure to asbestos airborne fibers to their employees thus allowing the renovation or demolition work to be completed by the general contractor.

Included at the end of this report are laboratory analytical results, chain of custody form, and site photographs for the bridge sampled. If you have any questions regarding this report or if we can be of further assistance, please contact our office.

Reviewed and submitted by:



Michael J. Lee
Certified Asbestos Consultant, DOSH #06-4047
Registered Environmental Property Assessor, REPA #716352750



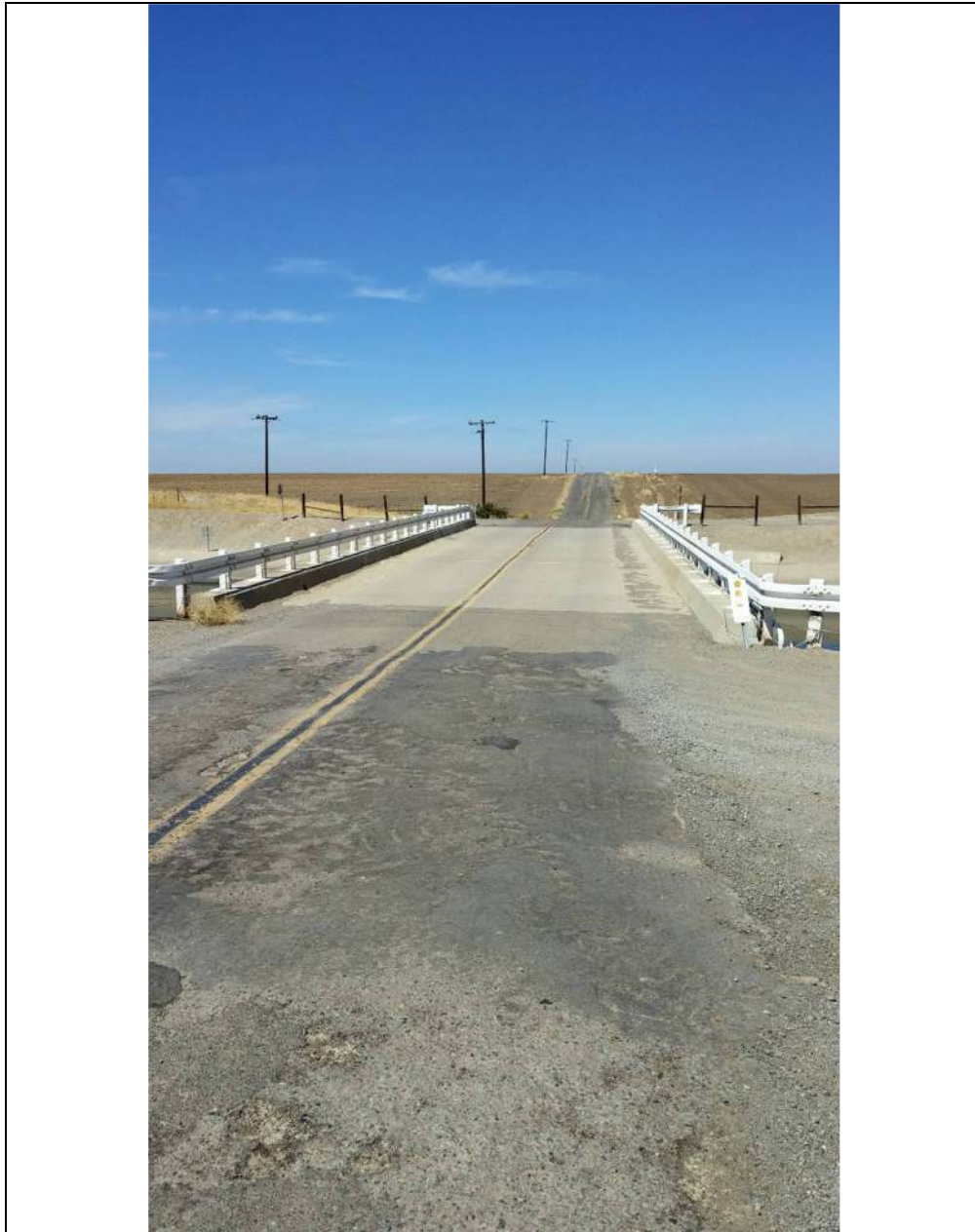
Asbestos Bridge Inspection/Survey


Bridge

(37.07154, -120.96194), Los Banos, CA

August 28, 2015

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Photograph # 1	Moraga Road Bridge	
Date of Inspection:	August 27, 2015	
Subject:	Bridge Span, Facing N	

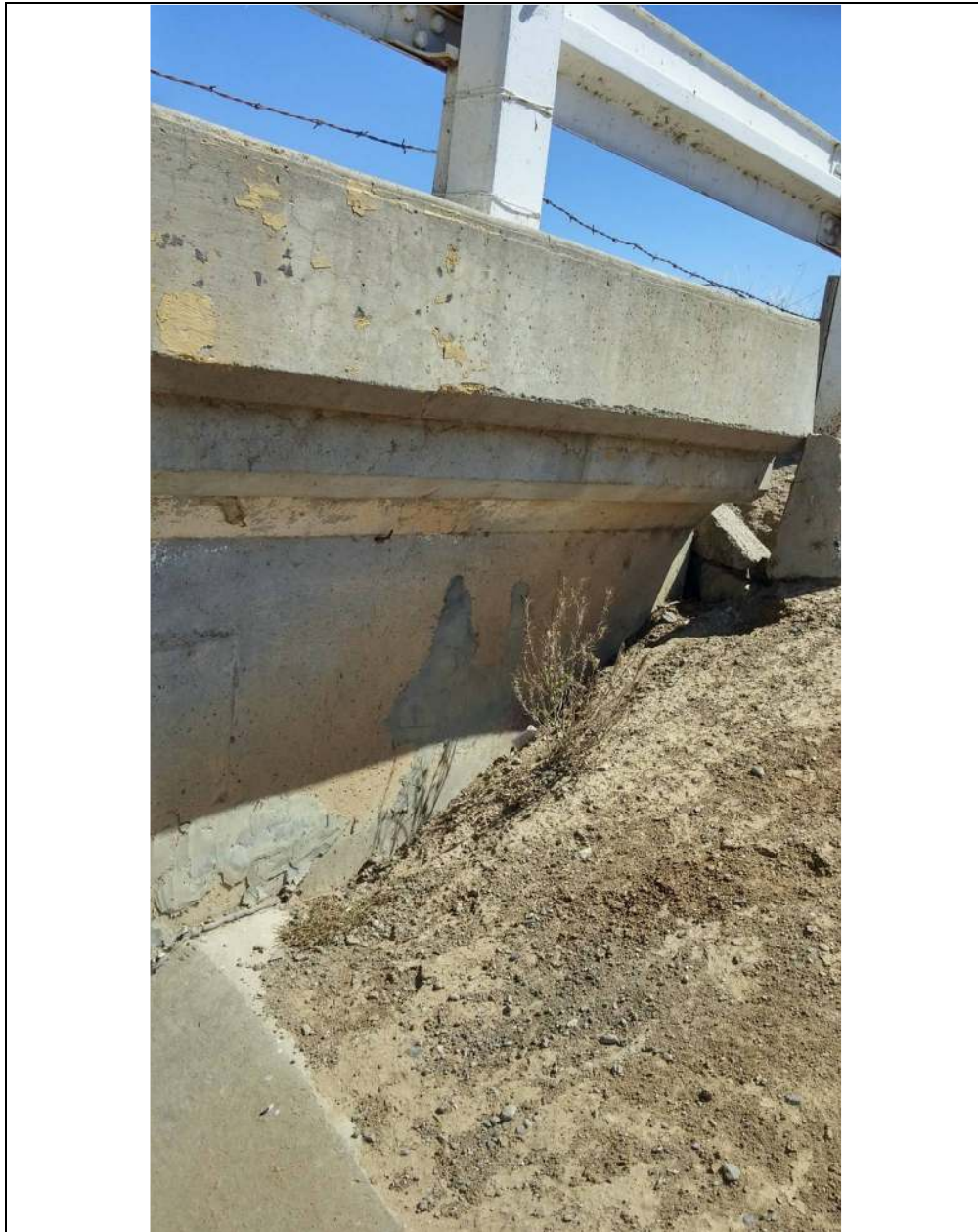



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Photograph # 2	Moraga Road Bridge	
Date of Inspection:	August 27, 2015	
Subject:	Southwest Deck-Abutment	



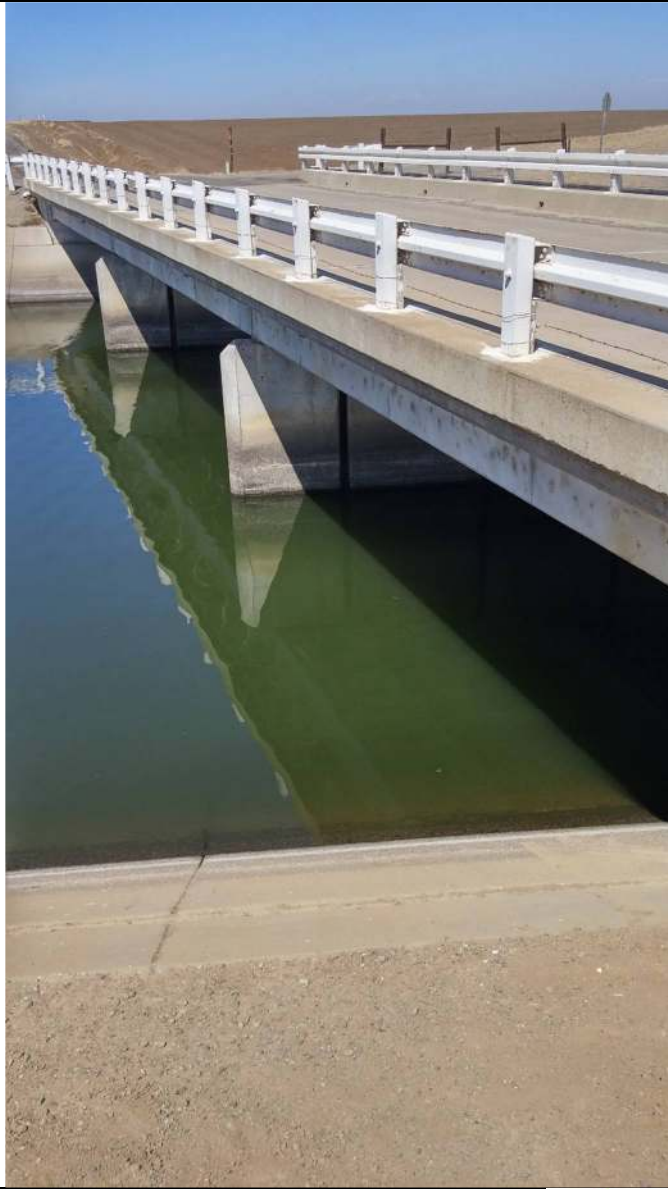
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N [REDACTED] Bridge

N [REDACTED] ([REDACTED] :12096194), Los Banos, CA

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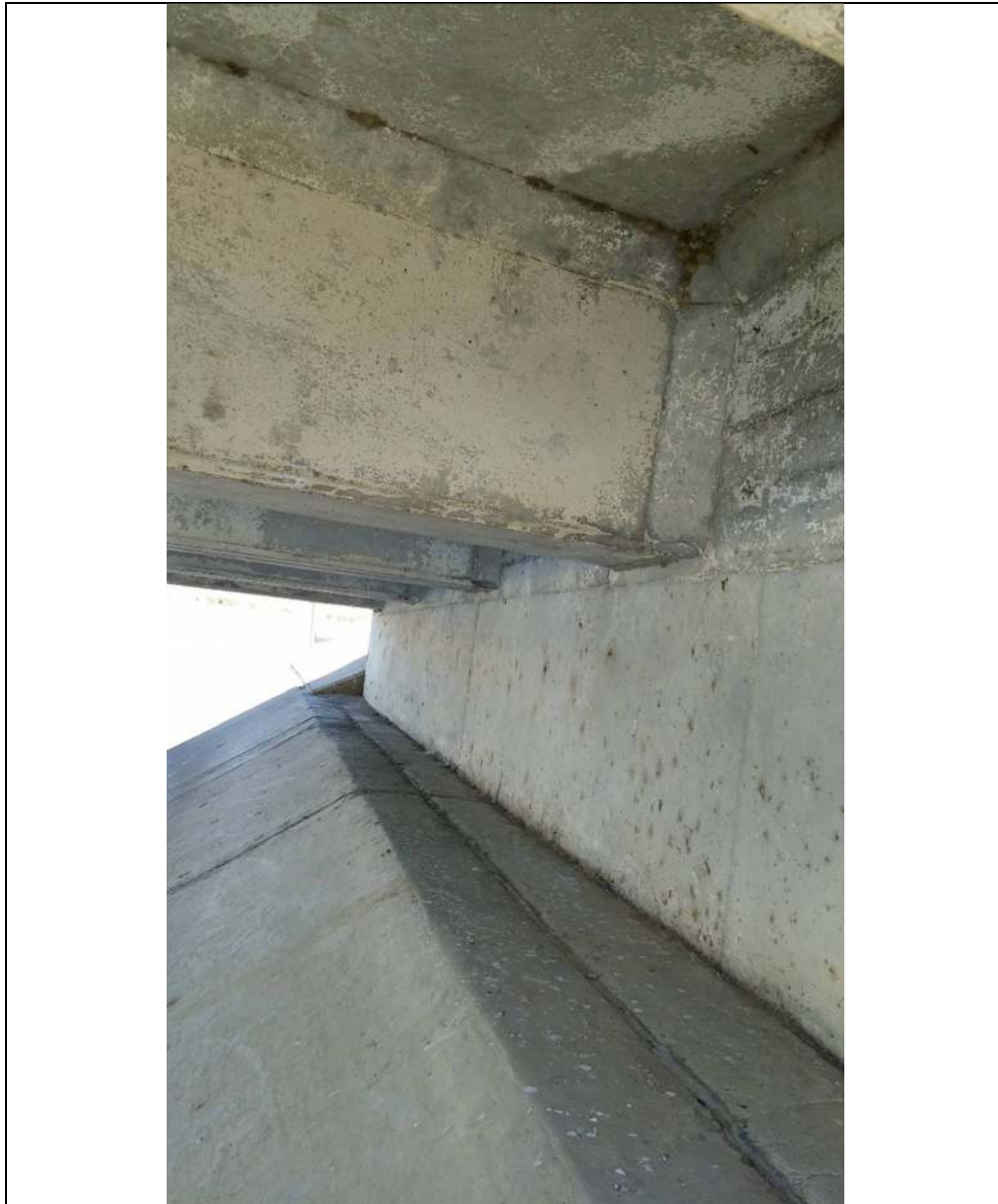



Photograph # 3	Moraga Road Bridge	
Date of Inspection:	August 27, 2015	
Subject:	West Side Exposure	



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Photograph # 4	Moraga Road Bridge	
Date of Inspection:	August 27, 2015	
Subject:	North Abutment – Sample 9	



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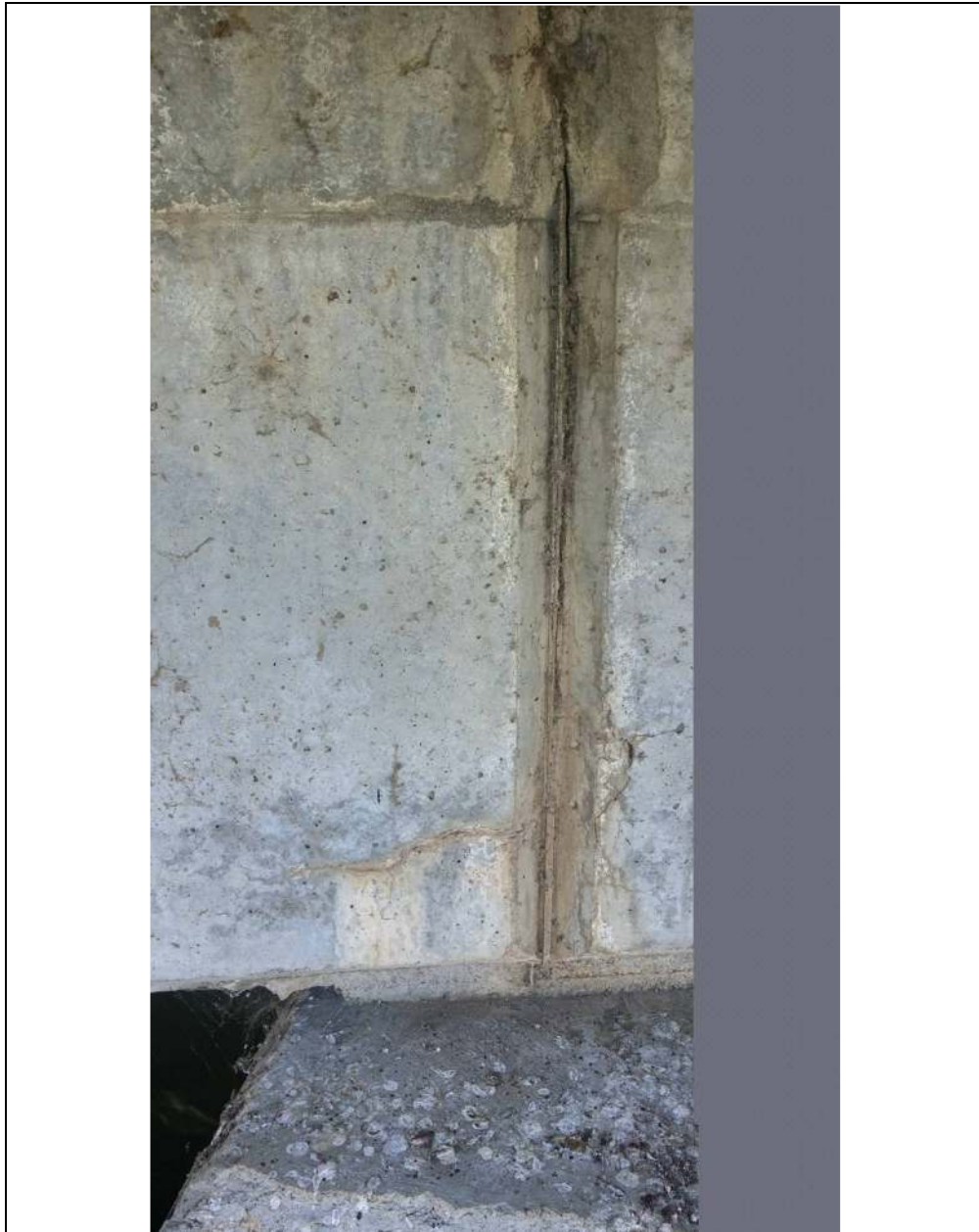



Photograph # 5	Moraga Road Bridge	
Date of Inspection:	August 27, 2015	
Subject:	Pier-Deck Intersection	



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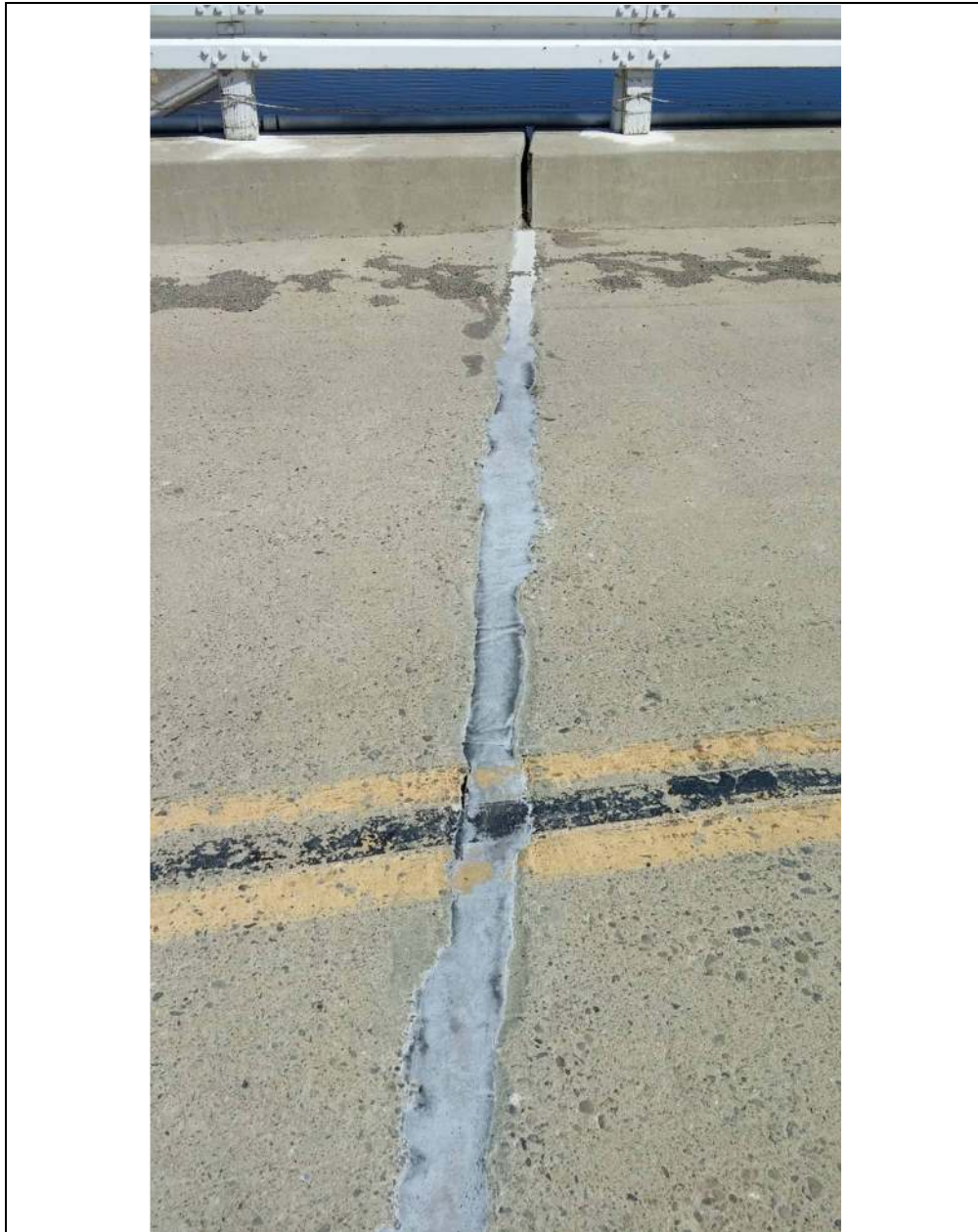



Photograph # 6	Moraga Road Bridge	
Date of Inspection:	August 27, 2015	
Subject:	Deck Slab Joint at Deck-Pier Intersection with Slurry	



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Photograph # 7	Moraga Road Bridge	
Date of Inspection:	August 27, 2015	
Subject:	Rubberized Center Sealant	



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August 28, 2015

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MicroTest™ Laboratories, Inc.
NVLAP Lab Code 200999-0
5150 Sunrise Blvd, Suite B-1 Fair Oaks, CA 95628
Phone (916) 567-9808 or (800) 713-3334
microtestlabsinc@yahoo.com

Client : NAL 2201 Francisco Drive, Suite 140-2611 El Dorado Hills, CA 95762	Contact Name: Anthony De Arcos Contact Name: Paula Lee Sampler: Michael Lee	Accession : 43465-43474 Analyst: A. Nagra
Project: Moraga Road Bridge Moraga Rd. (37.07194,-12096194) Los Banos, CA 95635	Sampling Date: 08/28/15 Receipt Date: 08/28/15 Report Date: 08/28/15	Samples Received: 10 Samples Analyzed: 10

Polarized Light Microscopy Test Report, EPA/600/R-93/116

Sample ID	Description	Fibrous/Non-Fibrous Material	Asbestiform Minerals
Bridge Deck MRB-1 Lab ID: 43465	Gray Concrete	Binder 99%	None Detected
Concrete Deck system MRB-2 Lab ID: 43466	Gray Concrete	Binder 99%	None Detected
Pier Support System MRB-3 Lab ID: 43467	Gray Concrete	Binder 99%	None Detected
Abutment System MRB-3A Lab ID: 43468	Gray Concrete	Binder 99%	None Detected
Pier System MRB-4 Lab ID: 43469	Gray Cement	Binder 99%	None Detected
Concrete Deck MRB-5 Lab ID: 43470	Gray Concrete	Binder 99%	None Detected
Concrete Deck MRB-6 Lab ID: 43471	Gray Padding	Binder 99%	None Detected
Concrete Deck MRB-7 Lab ID: 43472	Black Sealant	Binder 99%	None Detected
Concrete Deck MRB-8 Lab ID: 43473	Gray Sealant	Binder 99%	None Detected
North Abutment MRB-9 Lab ID: 43474	Black Sealant	Binder 95%	5% Chrysotile Asbestos

This constitutes a final report. Due to the limitations of PLM, some samples classified as containing no asbestos in materials such as floor tiles, warrant a recommendation for further analysis by TEM. These results relate only to the items tested. This report shall not be reproduced except in full, without the written approval of the laboratory. This report must not be used by the client to claim product endorsement by NVLAP or any agency of the U. S. Government. All samples may be disposed of after 30 days, according to State/Federal guidelines, unless otherwise specified. All samples were received in acceptable condition unless otherwise noted.

A. Nagra

Laboratory Director: *Rebecca Huddy* Analyst: *A. Nagra* Analyst: *M. Nguyen*

4346543474



NAL LOG-IN RECORD

Login # 35689

Ph: 916.361.0555 Fx: 916.361.0540

National Analytical Laboratories, Inc.

Job Site/Job #:

Client#-Lot# 4443 / 55

Moraga Road Bridge:
Moraga Rd (37.07194,-12096194)
Los Banos, CA 95635

Date 8/28/2015

Taber Consultants

Sampling Date: 8/27/2015

Phone Number

Sampling Time 1:00:00 PM

FAX Number

Type Of Work: PLM-BI

Contact

No. of Samples 10

E-Mail Address

Turnaround: 6 hours

8/28/15

Num.	Sample ID#	Location/Description
1	MRB-1	Bridge Deck, Rail Curb Sysyem, Various Areas (6 hit composite) / Concrete
2	MRB-2	Concrete Deck System, Various Areas (6 hit composite) / Concrete
3	MRB-3	Pier Support System, Various Areas (6 hit composite) / Concrete
4	MRB-3A	Abutment System, Various Areas (6 hit composite) / Concrete
5	MRB-4	Pier System, At Pier-Deck Intersection / Slurry Cement
6	MRB-5	Concrete Deck Slab Joint at Metal / Concrete
7	MRB-6	Concrete Deck, West Side at Slab Joint / Expantion Joint Padding
8	MRB-7	Concrete Deck, Center of Deck at Joint / Asphalt Sealant
9	MRB-8	Concrete Deck at Slab Joint / Light Gray Rubberized Sealant
10	MRF-9	North Abutment At Aqueduct Wall-Abutment Intersection / Black Sealant

43465
66
67
68
69
70
71
72
73
74

*IF RESULTS 1-5 ARE LESS THAN 1%, PLEASE 400 POINT COUNT

Chain of Custody Information

Released By Signature	Date/Time	Received By Signature	Date/Time	Due:
Michael Lee	082815 1035			
Released By Signature	Date/Time	Received By Signature	Date/Time	At:
		Alaya	8/28/15 9:30	