

BRIDGE I-571N HAZARDOUS MATERIALS SURVEY

BRIDGE INSPECTION AND SURVEY FOR PRESENCE OF ASBESTOS AND HEAVY METAL(S), JANUARY 2021

NDOT Hazardous Materials Section, Environmental Division 1263 South Stewart Drive Carson City, NV 89712

EXECUTIVE SUMMARY

The inspection (survey) for hazardous materials was conducted on bridge I-571N on January 21, 2021 by NDOT personnel from the Hazardous Materials section, of the Environmental Division. The bridges were evaluated for both asbestos containing materials (ACM) and heavy metals in coating materials. Twenty-five suspect asbestos samples were collected with results and considerations summarized below:

- No ACMs were identified.
- No coating materials were identified.

1.0 INTRODUCTION

NDOT conducted an asbestos survey and screening for metals-based coating materials on the following bridge structure located in Clark county:

• I-571N (Toquop Wash, I-15 Northbound)

The survey was conducted on January 21, 2021 by NDOT personnel. Suspect Asbestos Containing Material (ACM) were identified and appropriately sampled. Coating materials, if present, were sampled and analyzed for the Resource Recovery and Conservation Act eight (RCRA 8) metals.

Bulk asbestos samples were analyzed by a National Voluntary Laboratory Accredited laboratory by polarized light microscopy (PLM). Metals analysis was conducted by a Nevada Certified Lab. The results of the laboratory analysis are attached as Appendix C and Appendix D, respectively.

2.0 BRIDGE DESCRIPTION

Bridge I-571N was constructed in 1954 with improvements in1989. The bridge is constructed of entirely of concrete. Components include terminal-end bridge stem wall/backwall, wing walls, parapet, piers/columns, engineered caps, arch beams, crossbeams, abutments, and concrete bridge deck overlain with asphaltic concrete. Brown fiberboard expansion joints were identified.

3.0 FIELD ACTIVITIES

The survey was conducted by NDOT personnel, appropriately licensed Asbestos and Hazardous Emergency Response Act (AHERA) accredited asbestos inspectors. The survey was conducted in general accordance with the sample collection protocols established in EPA regulation 40 CFR 763. A summary of the survey activities performed is discussed below. Copies of AHERA certifications and licenses for NDOT personnel conducting the survey are provided as Appendix E.

3.1 Visual and Physical Assessment

Survey activities began with a visual observation of the structures to identify homogeneous areas of suspect ACM and presence of coating materials. A physical assessment of each homogeneous area of suspect ACM was conducted to assess the friability and condition of the materials.

The homogeneous areas identified during the visual survey, the presence of coating materials, and sample identifiers are summarized in Table 1.

Homogeneous Area	Description	Sample IDs
A	Engineered cap	EC-1, EC-2, EC-3
В	Stem/back wall	STEM-1, STEM-2, STEM-3
С	Beam/arched truss	TRUS-1, TRUS-2, TRUS-3
D	Bridge deck	DECK-1, DECK-2, DECK-3
E	Wing walls	WW-1, WW-2, WW-3
F	Parapet	PARA-1, PARA-2, PARA-3
G	Abutment	ABT-1, ABT-2, ABT-3
Н	Column/pier	COL-1, COL-2, COL-3
1	Brown fiberboard	EXP-1

Table 1 - Bridge Component Descriptions

notes: none

3.2 Sample Collection

Based on results of the visual observation, bulk samples of suspect ACM and coating materials were collected in general accordance with AHERA sampling protocols. Representative samples of suspect materials were collected in each homogeneous area. Samples were placed in new sealable containers and labeled with unique sample numbers.

3.3 Sample Analysis

Bulk samples of ACM were submitted under chain of custody to Asbestos TEM Laboratories for analysis by PLM. The percentage of asbestos, where applicable, was determined by microscopic visual estimation. A discussion of suspect ACM is included in Section 6.0.

4.0 PLAN REVIEW

Plans were not reviewed and not considered necessary.

5.0 REGULATORY OVERVIEW

5.1 Asbestos Regulations

NESHAP (40 CFR Part 61, Subpart M) regulates asbestos fiber emissions and asbestos waste disposal practices. It also requires the identification and classification of existing building materials prior to demolition or renovation activity. Under NESHAP, asbestos-containing building materials are classified as either friable, Category I non-friable, or Category II non- friable ACM. Category I non-friable ACM includes packings, gaskets, resilient floor coverings and asphalt roofing products containing more than 1% asbestos. Category II non-friable ACM are any materials other than Category I materials that contain more than 1% asbestos.

Friable ACM, Category I and Category II non-friable ACM which are in poor condition and have become friable or which will be subjected to drilling, sanding, grinding, cutting or abrading and which could be crushed or pulverized during anticipated renovation or demolition activities are considered Regulated ACM (RACM).

5.2 Coating Material and Lead Based Paint Regulations

Lead-based paint (LBP) is defined as a surface coating or paint containing lead in excess of 0.5% (5000 mg/Kg) by weight (EPA Toxic Substance Control Act, Section 401).

Under EPA regulations heavy metal impacted wastes generated during abatement activities are handled as either a solid waste or a hazardous waste, depending on the concentration of each of the metal(s) and the method of coating material removal.

6.0 FINDINGS AND RECOMMENDATIONS

6.1 Suspect Asbestos Containing Materials

A total of 25 bulk samples were collected from nine homogeneous areas of suspect ACM. No Asbestos Containing Materials were identified.

A bridge Location Map is included in Appendix A. A photographic log showing homogenous areas is presented in Appendix B. Asbestos analytical results are included in Appendix C. A summary of the suspect ACMs identified is provided in Table 2.

Homogeneous Sampling Area	Sample Number	Material Description/Sample Location	Asbestos Results ⁽¹⁾ , %	NESHAP Category ⁽²⁾	Friability ⁽³⁾
	EC-1				
А	EC-2	Engineered cap	Not Detected	N/A	non-friable
	EC-3				
	STEM-1				
В	STEM-2	Stem/back wall	Not Detected	N/A	non-friable
	STEM-3				
	TRUS-1				
С	TRUS-2	Beam/arched truss	Not Detected	N/A	non-friable
	TRUS-3				
	DECK-1				
D	DECK-2	Bridge deck	Not Detected	N/A	non-friable
	DECK-3				
	WW-1				
E	WW-2	Wing walls	Not Detected	N/A	non-friable
	WW-3				
	PARA-1				
F	PARA-2	Parapet	Not Detected	N/A	non-friable
	PARA-3				
	ABT-1				
G	ABT-2	Abutment	Not Detected	N/A	non-friable
	ABT-3				
	COL-1				
Н	COL-2	Column/pier	Not Detected	N/A	non-friable
	COL-3				
I	EXP-1	Brown fiberboard	Not Detected	N/A	friable
notes: (1) PLM unle	ss otherwise noted		•		

Table 2 – Summary of Suspected ACM

notes: (1) PLM unless otherwise noted.

(2) NESHAAP category I, category II, RACM, or (N/A) not applicable.

(3) Friable materials are those that, when dry, may be crumbled, pulverized or reduced to powder by hand pressure.

Additional suspect materials could exist within the structures in areas not accessible to the inspector at the time of the survey. Should suspect materials other than those identified during this survey be uncovered during the renovation/demolition process, those materials should be assumed to be ACM until sampling and analysis can confirm or refute this assumption.

6.2 Coating Materials

No coating materials were identified.

6.3 Recommendations

No ACMs were identified, no further actions are required at this time.

Appendix A Bridge Location Map Bridge I-571N Toquop Wash, I-15 Northbound Clark County, Nevada

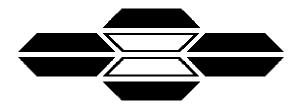


Appendix B Bridge Photo Log

	PHOTOGRAPHIC DOCUMENTATION
	NDOT Hazardous Materials Survey Bridge I-571 N
	Bridge I-571 N I-15
DUOTO 1	Clark County, Nv
PHOTO 1 DATE: 1/21/2021 DIRECTION: South TAKEN BY: Brian Reed DESCRIPTION: Bridge I-571 North.	
PHOTO 2 DATE: 1/21/2021 DIRECTION: South TAKEN BY: Brian Reed	
DESCRIPTION: Support columns, abutment, and parapet.	

	PHOTOGRAPHIC DOCUMENTATION
	NDOT Hazardous Materials Survey Bridge I-571 N I-15
	Clark County, Nv
PHOTO 3 DATE: 1/21/2021 DIRECTION: East TAKEN BY: Brian Reed DESCRIPTION: Stemwall and trusses.	
PHOTO 4 DATE: 1/21/2021 DIRECTION: West TAKEN BY:	
Brian Reed DESCRIPTION: Parapet and mainlane.	

Appendix C Asbestos Sample(s) Analytical Results



ASBESTOS TEM LABORATORIES, INC.

EPA Method 600/R-93/116 Polarized Light Microscopy Analytical Report

<u>Report No. 143640</u>

1350 Freeport Blvd., Unit 104 Sparks, NV 89431 (775) 359-3377 FAX (775) 359-2798

Main Office Located At: 3431 Ettie Street Oakland, CA 94608 Ph. (510) 704-8930 Fax (510) 704-8929





Jan-27-21

Robert Piekarz Nevada Department of Transportation 1263 South Stewart Street Carson City, NV 89712

RE: <u>LABORATORY JOB # 9092-00053</u> Polarized light microscopy analytical results for 25 bulk sample(s). Job Site: D1 I-15 Job No.: Report No.: 143640

Enclosed please find the bulk material analytical results for one or more samples submitted for asbestos analysis. The analyses were performed in accordance with EPA Method 600/R-93/116 or 600/M4-82-020 for the determination of asbestos in bulk building materials by polarized light microscopy (PLM). Please note that while PLM analysis is commonly performed on non-friable and fine grained materials such as floor tiles and dust, the EPA method recognizes that PLM is subject to limitations. In these situations, accurate results may only be obtainable through the use of more sophisticated and accurate techniques such as transmission electron microscopy (TEM) or X-ray diffraction (XRD).

Prior to analysis, samples are logged-in and all data pertinent to the sample recorded. The samples are checked for damage or disruption of any chain-of-custody seals. A unique laboratory ID number is assigned to each sample. A hard copy log-in sheet containing all pertinent information concerning the sample is generated. This and all other relevant paper work are kept with the sample throughout the analytical procedures to assure proper analysis.

Each sample is opened in a class 100 HEPA negative air hood. A representative sampling of the material is selected and placed onto a glass microscope slide containing a drop of refractive index oil. The glass slide is placed under a polarizing light microscope where standard mineralogical techniques are used to analyze and quantify the various materials present, including asbestos. The data is then compiled into standard report format and subjected to a thorough quality assurance check before the information is released to the client.

Please note all samples will be held for 3 months from the date of receipt unless otherwise requested by client.

Sincerely Yours,

- J- 0/-

Laboratory Analyst ASBESTOS TEM LABORATORIES, INC.

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--- These results relate only to the samples tested and must not be reproduced, except in full, with the approval of the laboratory. This report must not be used to claim product endorsement by NVLAP or any other agency of the U.S. Government. ---

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POLARIZED LIGHT MICROSCOPY ANALYTICAL REPORT

EPA Method 600/R-93/116 or 600/M4-82-020

Page: <u>1</u> of <u>3</u>

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Contact: Robert Piekarz Address: Nevada Department 1263 South Stewart Carson City, NV 89	t of Split Layers	es Analyzed: 25 S Analyzed: 0	Report No. 143640 Date Submitted:Jan-22-21Date Reported:Jan-27-21
SAMPLE ID	ASBESTOS % TYPE	OTHER DATA 1) Non-Asbestos Fibers 2) Matrix Materials 3) Date/Time Collected 4) Date Analyzed	DESCRIPTION FIELD LAB
EC-1	None Detected	1)None Detected 2)99-100% Qtz, Calc, Opq	Grey concrete - eng cap
Lab ID # 9092-00053-001		3) ¹⁻²¹⁻²¹ 4) Jan-27-21	Concrete-Grey
EC-2	None Detected	 None Detected 99-100% Qtz, Calc, Opq Fib.Op.Prop. Same as in 	Grey concrete - eng cap
Lab ID # 9092-00053-002		3) 1-21-21 4) Jan-27-21	Concrete-Grey
EC-3	None Detected	 None Detected 99-100% Qtz, Calc, Opq Fib.Op.Prop. Same as in 	Grey concrete - eng cap
Lab ID # 9092-00053-003		3) ¹⁻²¹⁻²¹ 4) Jan-27-21	Concrete-Grey
STEM-1	None Detected	 None Detected 99-100% Qtz, Calc, Opq Fib.Op.Prop. Same as in 	Grey concrete - stem wall
Lab ID # 9092-00053-004		3) ¹⁻²¹⁻²¹ 4) Jan-27-21	Concrete-Grey
STEM-2	None Detected	 None Detected 99-100% Qtz, Calc, Opq Fib. Op.Prop. Same as in 	Grey concrete - stem wall
Lab ID # 9092-00053-005		3) 1-21-21 4) Jan-27-21	Concrete-Grey
STEM-3	None Detected	 None Detected 99-100% Qtz, Calc, Opq Fib. Op.Prop. Same as in 	Grey concrete - stem wall
Lab ID # 9092-00053-006		3) ¹⁻²¹⁻²¹ 4) Jan-27-21	Concrete-Grey
TRUS-1	None Detected	 None Detected 99-100% Qtz, Calc, Opq Fib.Op.Prop. Same as in 	Grey concrete - truss
Lab ID # 9092-00053-007		3) 1-21-21 4) Jan-27-21	Concrete-Grey
TRUS-2	None Detected	1)None Detected 2)99-100% Qtz, Calc, Opq <i>Fib.Op.Prop. Same as in</i>	Grey concrete - truss
Lab ID # 9092-00053-008		3) 1-21-21 4) an-27-21	Concrete-Grey
TRUS-3	None Detected	1)None Detected 2)99-100% Qtz, Calc, Opq Fib.Op.Prop. Same as in	Grey concrete - truss
Lab ID # 9092-00053-009		3) ¹⁻²¹⁻²¹ 4) Jan-27-21	Concrete-Grey
DECK-1	None Detected	 None Detected 99-100% Qtz, Calc, Opq Fib.Op.Prop. Same as in 	Grey concrete - bridge deck/ moralone(?)
Lab ID # 9092-00053-010		3) ¹⁻²¹⁻²¹ 4) Jan-27-21	Concrete-Grey

Limit of quantitation of method is estimated to be 1% asbestos using a visual area estimation technique. Split samples are inhomogeneous.

1 pf Ľ Laboratory Analyst_ Greg Hanes

ASBESTOS TEM LABORATORIES, INC.

1350 Freeport Blvd., Unit 104, Sparks, NV 89431 (775) 359-3377



POLARIZED LIGHT MICROSCOPY ANALYTICAL REPORT

EPA Method 600/R-93/116 or 600/M4-82-020

Page: <u>2</u> of <u>3</u>

		x-95/110 01 000/14-82-020	
Contact: Robert Piekarz Address: Nevada Departmen 1263 South Stewart Carson City, NV 8	t of Split Layers t Street Job Site / N	es Analyzed: 25 3 Analyzed: 0	Report No. 143640 Date Submitted:Jan-22-21Date Reported:Jan-27-21
SAMPLE ID	ASBESTOS % TYPE	OTHER DATA 1) Non-Asbestos Fibers 2) Matrix Materials 3) Date/Time Collected 4) Date Analyzed	DESCRIPTION FIELD LAB
DECK-2	None Detected	1)None Detected 2)99-100% Qtz, Calc, Opq Fib. Op.Prop. Same as in	Grey concrete - bridge deck/ moralone(?)
Lab ID # 9092-00053-011		3) ¹⁻²¹⁻²¹ 4) Jan-27-21	Concrete-Grey
DECK-3	None Detected	 None Detected 99-100% Qtz, Calc, Opq Fib. Op.Prop. Same as in 	Grey concrete - bridge deck/ moralone(?)
Lab ID # 9092-00053-012		3) 1-21-21 4) Jan-27-21	Concrete-Grey
WW-1	None Detected	1)None Detected 2)99-100% Qtz, Calc, Opq Fib. Op.Prop. Same as in	Grey concrete - wing wall
Lab ID # 9092-00053-013		3) ¹⁻²¹⁻²¹ 4) Jan-27-21	Concrete-Grey
WW-2	None Detected	1)None Detected 2) ^{99-100%} Qtz, Calc, Opq Fib. Op.Prop. Same as in	Grey concrete - wing wall
Lab ID # 9092-00053-014		3) ¹⁻²¹⁻²¹ 4) Jan-27-21	Concrete-Grey
WW-3	None Detected	1)None Detected 2)99-100% Qtz, Calc, Opq Fib. Op.Prop. Same as in	Grey concrete - wing wall
Lab ID # 9092-00053-015		3) 1-21-21 4) Jan-27-21	Concrete-Grey
PARA-1	None Detected	 None Detected 99-100% Qtz, Calc, Opq Fib. Op.Prop. Same as in 	Grey concrete - parapet
Lab ID # 9092-00053-016		3) ¹⁻²¹⁻²¹ 4) Jan-27-21	Concrete-Grey
PARA-2	None Detected	 None Detected 99-100% Qtz, Calc, Opq Fib. Op.Prop. Same as in 	Grey concrete - parapet
Lab ID # 9092-00053-017		3) ¹⁻²¹⁻²¹ 4) Jan-27-21	Concrete-Grey
PARA-3	None Detected	 None Detected 99-100% Qtz, Calc, Opq Fib.Op.Prop. Same as in 	Grey concrete - parapet
Lab ID # 9092-00053-018		3) 1-21-21 4) an-27-21	Concrete-Grey
ABT-1	None Detected	1)None Detected 2)99-100% Qtz, Calc, Opq Fib.Op.Prop. Same as in	Grey concrete - abutment
Lab ID # 9092-00053-019		3) 1-21-21 4) Jan-27-21	Concrete-Grey
ABT-2	None Detected	 None Detected 99-100% Qtz, Calc, Opq Fib. Op.Prop. Same as in 	Grey concrete - abutment
Lab ID # 9092-00053-020		3) ¹⁻²¹⁻²¹ 4) Jan-27-21	Concrete-Grey

Limit of quantitation of method is estimated to be 1% asbestos using a visual area estimation technique. Split samples are inhomogeneous.

1 pf Ľ Laboratory Analyst_ Greg Hanes

ASBESTOS TEM LABORATORIES, INC.

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POLARIZED LIGHT MICROSCOPY ANALYTICAL REPORT

EPA Method 600/R-93/116 or 600/M4-82-020

Page: <u>3</u> of <u>3</u>

Contact: Robert PiekarzSamples Indicated:25 Reg. Samples Analyzed:Report No.143640 Date Submitted:Address: Nevada Department of 1263 South Stewart Street Carson City, NV 89712Split Layers Analyzed:0Date Submitted:Jan-22-21 Date Reported:SAMPLE IDASBESTOS %OTHER DATA TYPEDESCRIPTION FIELDABT-3None DetectedOTHER DATA 1) Non-Asbestos Fibers 2) Matrix MaterialsDESCRIPTION FIELDABT-3None DetectedOTHER DATA 1) Non-Asbestos Fibers 2) Matrix MaterialsGrey concret - abutmentLab ID # 9092-00053-021None Detected100% Qtz, Calc, Opq Fib. Op. Prop. Same as in 3) 1-21-21Grey concret - columnsLab ID # 9092-00053-022None Detected1)None Detected 2) 99-100% Qtz, Calc, Opq Fib. Op. Prop. Same as in 3) 1-21-21Grey concret - columnsLab ID # 9092-00053-023None Detected1)None Detected 2) 99-100% Qtz, Calc, Opq Fib. Op. Prop. Same as in 3) 1-21-21Grey concret - columnsLab ID # 9092-00053-023None Detected 3) 1-21-211) Jan-27-21Concrete-GreyCOL-2None Detected 2) 99-100% Qtz, Calc, Opq Fib. Op. Prop. Same as in 3) 1-21-21Grey concret - columnsLab ID # 9092-00053-0233) 1-21-214) Jan-27-21Concrete- columnsLab ID # 9092-00053-024None Detected 3) 1-21-211) Jan-27-21Concrete- columns1None Detected 2) 99-100% Qtz, Calc, Opq 3) 1-21-211) Jan-27-21Concrete- columns1None Detected 2) 1-21-211) Jan-27-21Concret	
SAMPLE IDASBESTOS %1) Non-Asbestos Fibers 2) Matrix Materials 3) Date/Time Collected 4) Date AnalyzedDESCRIPTION FIELDABT-3None Detected3) Date/Time Collected 4) Date AnalyzedGrey concrete - abutmentABT-3None Detected3)1-21-214) Jan-27-21Concrete-GreyLab ID # 9092-00053-0213)1-21-214) Jan-27-21Concrete-GreyCOL-1None Detected1)None Detected 2)99-100% Qtz, Calc, Opq Fib.Op.Prop. Same as inGrey concrete - columnsLab ID # 9092-00053-0223)1-21-214) Jan-27-21Concrete-GreyCOL-2None Detected 2)99-100% Qtz, Calc, Opq Fib.Op.Prop. Same as inGrey concrete - columns1)None Detected 2)99-100% Qtz, Calc, Opq Fib.Op.Prop. Same as inGrey concrete - columns1)None Detected 2)99-100% Qtz, Calc, Opq Fib.Op.Prop. Same as inGrey concrete - columns1)None Detected 2)99-100% Qtz, Calc, Opq Fib.Op.Prop. Same as inGrey concrete - columns1)None Detected 2)99-100% Qtz, Calc, Opq Fib.Op.Prop. Same as inGrey concrete - columns1)None Detected 2)99-100% Qtz, Calc, Opq Fib.Op.Prop. Same as inGrey concrete - columns1)None Detected 2)99-100% Qtz, Calc, Opq Fib.Op.Prop. Same as inGrey concrete - columns1)None Detected 2)99-100% Qtz, Calc, Opq Fib.Op.Prop. Same as inGrey concrete - columns2)1-21-214) Jan-27-21Concrete-Grey1)None Detected 2)99-100% Qtz, Calc, Opq Fib.Op.Prop. Same as inGrey concrete - columns2)99-100% Qtz, Calc, Opq Fib.Op.Prop. Same as inGrey con	
AB1-3None Detected2/99-100% Qtz, Calc, Opq Fib.Op.Prop. Same as inLab ID # 9092-00053-0213)1-21-214) Jan-27-21Concrete-GreyCOL-1None Detected1)None DetectedGrey concrete - columns1 b ID # 9092-00053-0223) 1-21-214) Jan-27-21Concrete-GreyCOL-2None Detected1)None DetectedGrey concrete - columns1 b ID # 9092-00053-0233) 1-21-214) Jan-27-21Concrete-GreyCOL-2None Detected2)99-100% Qtz, Calc, Opq Fib. Op.Prop. Same as inGrey concrete - columns1 b ID # 9092-00053-0233) 1-21-214) Jan-27-21Concrete-GreyCOL-3None Detected2)99-100% Qtz, Calc, Opq Fib. Op.Prop. Same as inGrey concrete - columns1 None Detected2)99-100% Qtz, Calc, Opq Fib. Op.Prop. Same as inGrey concrete - columns2 COL-3None Detected2)99-100% Qtz, Calc, Opq Fib. Op.Prop. Same as inGrey concrete - columns2 09-100% Qtz, Calc, Opq Fib. Op.Prop. Same as in1)None Detected 2)99-100% Qtz, Calc, Opq Fib. Op.Prop. Same as inGrey concrete - columns	1
COL-1None Detected1) None DetectedGrey concrete - columnsLab ID # 9092-00053-0221) None Detected2) 99-100% Qtz, Calc, Opq Fib. Op. Prop. Same as inGrey concrete - columnsCOL-2None Detected1) None DetectedGrey concrete - columnsLab ID # 9092-00053-0231) None DetectedGrey concrete - columnsCOL-3None Detected1) None DetectedGrey concrete - columns1) None Detected3) 1-21-214) Jan-27-21Concrete-GreyCOL-3None Detected3) 1-21-214) Jan-27-21Concrete-GreyCOL-3None Detected1) None DetectedGrey concrete - columns1) None Detected2) 99-100% Qtz, Calc, Opq Fib. Op. Prop. Same as inGrey concrete - columnsCOL-3None Detected1) None DetectedGrey concrete - columns1) None Detected1) None Detected1) None DetectedGrey concrete - columns1) None Detected1) None Detected1) None Detected1) None Detected1) None Detected1) None Detected1) None DetectedGrey concrete - columns	
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COL-2 None Detected 1)None Detected Grey concrete - columns Lab ID # 9092-00053-023 1)None Detected 2)99-100% Qtz, Calc, Opq Grey concrete - columns COL-3 None Detected 3)1-21-21 4) Jan-27-21 Concrete-Grey I)None Detected 2)99-100% Qtz, Calc, Opq Grey concrete - columns Grey concrete - columns	
COL-2None Detected2) 99-100% Qtz, Calc, Opq Fib. Op. Prop. Same as inLab ID # 9092-00053-0233) 1-21-214) Jan-27-21Concrete-GreyCOL-3None Detected1) None Detected 2) 99-100% Qtz, Calc, Opq Fib. Op. Prop. Same as inGrey concrete - columns	-
COL-3 1) None Detected Grey concrete - columns 1) None Detected 2) 99-100% Qtz, Calc, Opq Grey concrete - columns Fib. Op. Prop. Same as in Fib. Op. Prop. Same as in Grey concrete - columns	
COL-3 None Detected 2) 99-100% Qtz, Calc, Opq Fib. Op. Prop. Same as in	
Lab ID # 9092-00053-024 3) 1-21-21 4) Im 27-21 Concrete-Grey	
$3)^{1} = 4$	
EXP-1None Detected1)40-60% Cellulose,Synthetics 2)40-60% OpqBrown fiberboard - expansion joints	
Lab ID # 9092-00053-025 3) 1-21-21 4)Jan-27-21 Fiberboard-Brown/Black	
1) 2)	
Lab ID # 3) 4)	
1) 2)	
Lab ID # 3) 4)	
1) 2)	
Lab ID # 3) 4)	
1) 2)	
Lab ID # 3) 4)	
1) 2)	
Lab ID # 3) 4)	

Limit of quantitation of method is estimated to be 1% asbestos using a visual area estimation technique. Split samples are inhomogeneous.

- A Laboratory Analyst_ Greg Hanes

ASBESTOS TEM LABORATORIES, INC. 1350 I

1350 Freeport Blvd., Unit 104, Sparks, NV 89431 (775) 359-3377

1263 S. Stewart St Carson City, NV 89701			IIS	Survey Data					Page //	2
inspectors: Brian Reed/Robert Piekarz	Robert Piekarz	Project Name:	Bridas 5	STI NIE		Project Number:			Date Sampled:	121/21
Phone: 775-888-7892	Fax: 775-888-7104	Project Location:	01	51-2		Analysis Type: Abestos	estos		Air	i me
Turn-A-Round Time:	Rush 24-Hour	(eaz	Requests:	Verbals	Fax		Test to First Positive:	t Positive:	Yes	(en s
Lab # Sample ID	Material Description	5	Sample Location		Location of Materials	Materials	Quantity	Condition	Friable	Asbestos %
1 EC-1	grey concrete	<i>ke</i>	ENG CED		Breke	571 NIE	/	Q	N	
2 BUZ			10		2	1	1	6	2	
3 EC3			${\rightarrow}$				~	9	N	
3tem-1			Stownes !!				~	Y	2	
s Stem 2			1	-			/	9	N	
6 String			1				/	3	N	
7 T945-1			Trues				1	9	R	
8 Trus -2			_				1	5	N	
1 Trus 3			1				1	6	N	
10 PecK-1	\uparrow		Bridge Deck/Meriulanc	(moralore		11	1	5	N	
Comments/Additional Information	nformation		2						3	
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Nevada Department of Transportation 1263 S. Stewart St

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Nevada Department of Transportation

01 Survey Data eed/noert: Petern: Poject Name: <i>Dielect</i> . <i>Strip</i> . <i>Aur</i> . <i>Dies</i> . <i>Strip</i> . <i>Aur</i> . <i>Bistrip</i> . <i>Aur</i> . <i>A</i>	1263 S. Stewart St	•								Page 3	ĸ
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Neveda Department of Transportation

Appendix D Inspector Certifications and Licenses

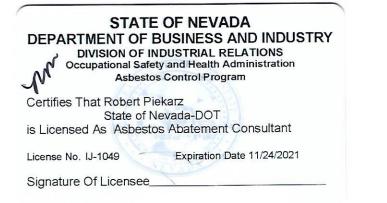
STATE OF NEVADA DEPARTMENT OF BUSINESS AND INDUSTRY DIVISION OF INDUSTRIAL RELATIONS Occupational Safety and Health Administration Asbestos Control Program

Certifies That Robert Piekarz State of Nevada-DOT is Licensed As Asbestos Abatement Consultant

License No. IJ-1049

Expiration Date 11/24/2021

Signature Of Licensee



ntal Training			approved by the California Division of d by Title 8, Article 2.7, Chapter 3.2, Section introl Act, Title II. Conducted by M&C el. # (510 499-5646	Expiration: November 24, 2021			
M & C Environmental Training	Asbestos Inspector Refresher Training Course	Robert Piekarz	Has successfully completed the Asbestos Inspector Refresher course approved by the California Division of Occupational Safety and Health for purposes of certification required by Title 8, Article 2.7, Chapter 3.2, Section 341.16 and the accreditation required under the Toxic Substances Control Act, Title II. Conducted by M&C Environmental Training Inc., P.O. Box 6419, Concord, California Tel. # (510 499-5646	Course Approval Number: CA-003-06 Location: Concord, California	Dates: November 24, 2020	Director of Training: John McGinnis	Certificate Number 48309 IR

M & C Environmental Training

Asbestos Management Planner Refresher Training Course

Robert Piekarz

Has successfully completed the Asbestos Management Planner Refresher course approved by the California Division of Occupational Safety and Health for purposes of certification required by Title 8, Article 2.7, Chapter 3.2, Section 341.16 and the accreditation required under the Toxic Substances Control Act, Title II. Conducted by M&C Environmental Training Inc., P.O. Box 6419, Concord, California. Tel. # (510) 499 - 5646

Course Approval Number: CA-003-08

Location: Concord, California

Expiration: November 24, 2021

Dates: November 24, 2020

Director of Training: John McGinnis

Shull Frum

Certificate Number 48327 PR