

BRIDGES G-2845 E/W HAZARDOUS MATERIALS SURVEY

BRIDGE INSPECTION AND SURVEY FOR PRESENCE OF ASBESTOS AND HEAVY METAL(S), FEBRURARY 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 the east and west bridges of G-2845 on February 17, 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. One suspect metals sample and twenty-three suspect asbestos samples were collected with results and considerations summarized below:

- No ACMs were identified
- No heavy metals were found in coating materials.
- Bridges has elastomeric bearing pads.

1.0 INTRODUCTION

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

- G-2845E (Eastbound Highway 50, Hazen, NV)
- G-2845W (Westbound Highway 50, Hazen, NV)

The survey was conducted on February 17, 2021 by NDOT personnel. Due to the similarities between the two bridges; including design, construction materials, date of construction, similar wear patterns and maintenance activities, bridges were surveyed collectively, and findings presented herein, shall apply to both bridges, despite their physical separation. 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

Bridges G-2845 E/W were constructed in 2008. East and west bridges of G-2845 are constructed of concrete and steel components. The concrete components include terminal-end bridge stem wall/back walls, wing walls, abutments, parapet, piers, and bridge deck overlain with concrete asphaltic concrete. The steel components include beams, cross beams, field splice plates, and undercarriage corrugated steel decking. Coating materials were applied throughout the bridge and with the exception of undercarriage steel decking and fencing, paint applied to all steel components. Bridge bearing pads are elastomeric. Both fibrous and rubberized 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	Abutment	ABT-1, ABT-2, ABT-3
В	Bridge decking	DECK-1, DECK-2, DECK-3
С	Stem walls/back walls	STEM-1, STEM-2, STEM-3
D	Wing walls	WW-1, WW-2, WW-3
E	Parapet	PARA-1, PARA-2, PARA-3
F	Piers	COL-1, COL-2, COL-3
G	Brown fibrous expansion joint	EXP-1
Н	Brown fibrous expansion joint	EXP-2
I	Bridge coating material	TX-1
J	Bridge coating material	TX-2
K ¹	Metal components brown paint	PAINT, Bridge 2845 Paint

Table 1 - Bridge Component Descriptions

notes: 1) paint coating material ID: PAINT=asbestos, Bridge 2845 Paint=metals.

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. Coating material samples were also submitted to Alpha Analytical and analyzed for heavy metals using EPA 6020 test method.

A discussion of suspect ACM and suspect metals-based coating samples collected during the survey and findings are included in Section 6.0.

4.0 PLAN REVIEW

Due to age of bridge, design plan review was not 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 23 bulk samples were collected from eleven 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	Asbestos Results ⁽¹⁾ , %	NESHAP Category ⁽²⁾	Friability ⁽³⁾
	ABT-1				
А	ABT-2	Abutment	Not detected	N/A	non-friable
	ABT-3				
	DECK-1				
В	DECK-2	Bridge deck	Not detected	N/A	non-friable
	DECK-3				
	STEM-1				
С	STEM-2	Stem walls/back walls	Not detected	N/A	non-friable
	STEM-3				
	WW-1				
D	WW-2	Wing walls	Not detected	N/A	non-friable
	WW-3				
	PARA-1				
E	PARA-2	Parapet	Not detected	N/A	non-friable
	PARA-3				
	COL-1				
F	COL-2	Piers	Not detected	N/A	non-friable
	COL-3				
G	EXP-1	Brown fibrous expansion joint	Not detected	N/A	friable
Н	EXP-2	Brown fibrous expansion joint	Not detected	N/A	friable
I	TX-1	Gray cementous texturing	Not detected	N/A	non-friable
J	TX-2	Gray cementous texturing	Not detected	N/A	non-friable
K	PAINT	Brown paint	Not detected	N/A	non-friable

 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, other than those identified during the survey, 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

One composite sample from the coating material applied to the concrete components "Bridge 2845 Paint" was collected for analysis. The composite samples were analyzed for total arsenic, barium, cadmium, chromium, lead, selenium, silver, and mercury. Based on the EPA's definition of LBP, the paint coating material is a LBP. Analytical results are included in Appendix D and laboratory results are summarized in Table 3.

Sample	Material		l	Heavy N	letal Re	sults ⁽¹⁾ ,	mg/Kg	3	
Identification	Description/Sample Location	As	Ва	Cd	Cr	Pb	Se	Ag	Hg
Bridge 2845 Paint	Brown paint on metal components	nd	nd	nd	nd	nd	nd	nd	nd

Table 3 – Summary of Coating Material

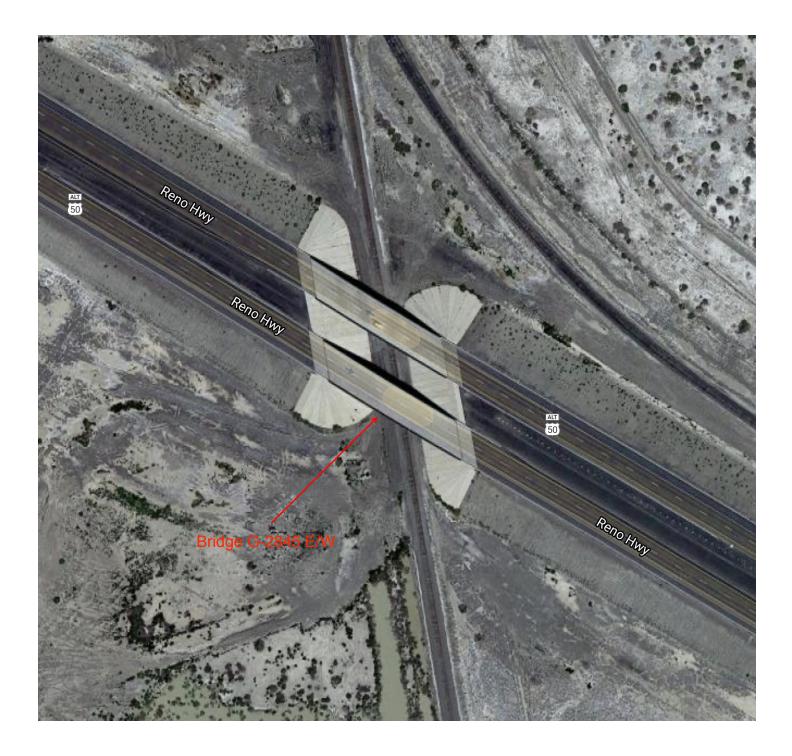
notes: (1) EPA test method 6020.

nd - not detected above method limits.

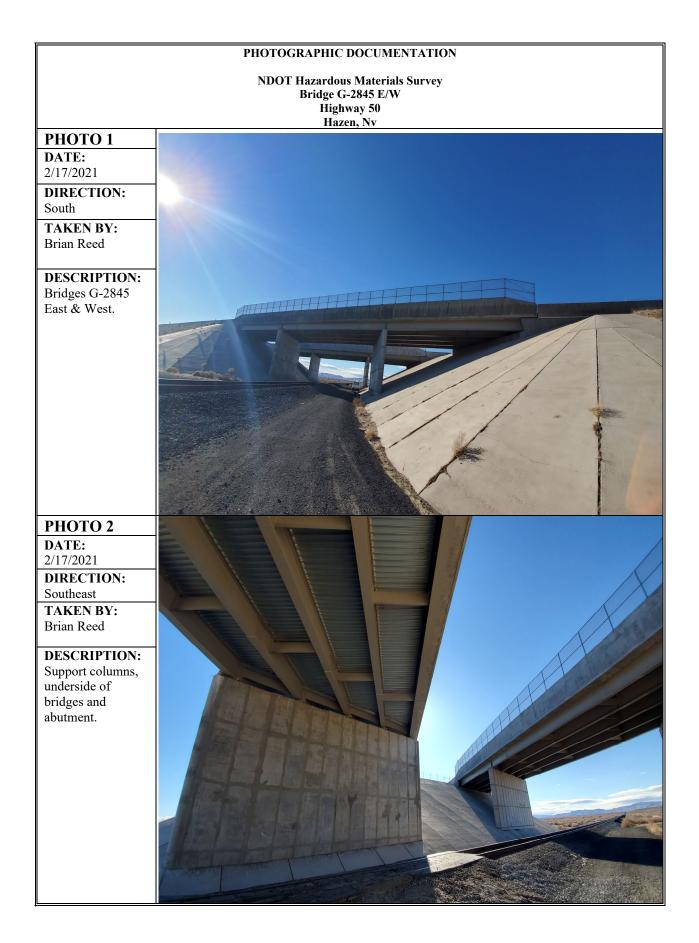
6.3 Recommendations

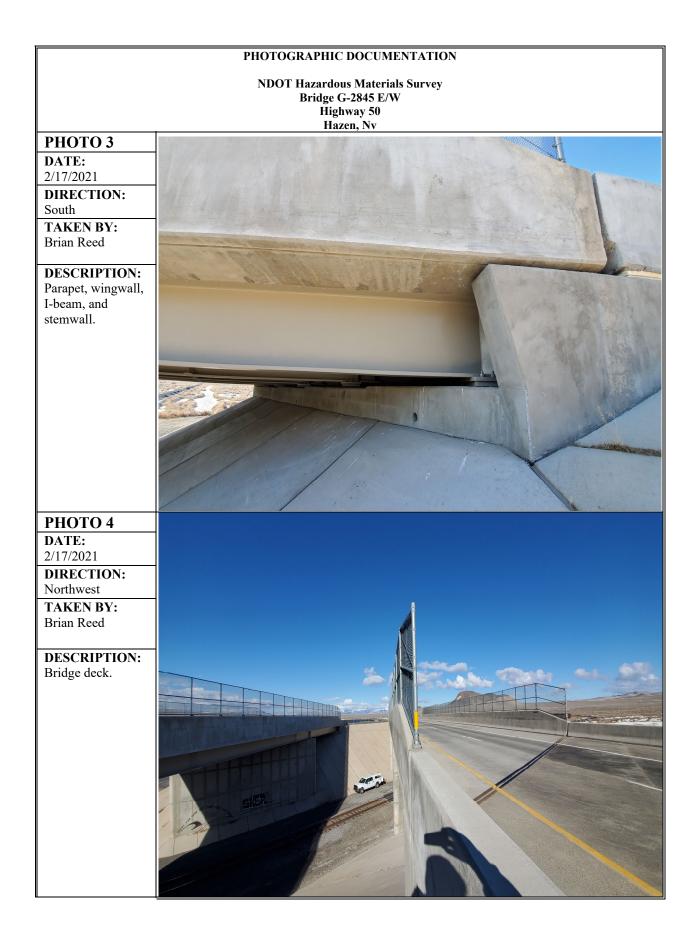
No ACMs were identified. Heavy metals were not found in paint coating materials. Consequently, there are no recommendations at this time.

Appendix A Bridge Location Map Bridge G-2845 E/W Highway 50 Hazen, Nevada

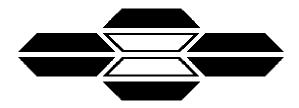


Appendix B Bridge Photo Log





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. 143843</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





Feb-19-21

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

RE: <u>LABORATORY JOB # 9092-00056</u> Polarized light microscopy analytical results for 23 bulk sample(s). Job Site: Bridge #7845 E/W, Hazen Job No.: Report No.: 143843

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

			ë -
Contact: Robert Piekarz Address: Nevada Departme 1263 South Stewa Carson City, NV	nt of Split Layers rt Street Job Site / N	es Analyzed: 23	Report No.143843Date Submitted:Feb-17-21Date Reported:Feb-19-21
SAMPLE ID	ASBESTOS % TYPE	OTHER DATA 1) Non-Asbestos Fibers 2) Matrix Materials 3) Date/Time Collected 4) Date Analyzed	DESCRIPTION FIELD LAB
ABT-1	None Detected	1)None Detected 2)99-100% Qtz, Calc	Tan concrete - abutment
Lab ID # 9092-00056-001		3) ²⁻¹⁷⁻²¹ 4) Feb-19-21	Concrete-Tan
ABT-2	None Detected	 None Detected 99-100% Qtz, Calc Fib. Op.Prop. Same as in 	Tan concrete - abutment
Lab ID # 9092-00056-002		3) 2-17-21 4) Feb-19-21	Concrete-Tan
ABT-3	None Detected	 None Detected 99-100% Qtz, Calc Fib.Op.Prop. Same as in 	Tan concrete - abutment
Lab ID # 9092-00056-003		3) ²⁻¹⁷⁻²¹ 4) Feb-19-21	Concrete-Tan
PAINT	None Detected	 None Detected 99-100% Paint, Opq 	Brown paint
Lab ID # 9092-00056-004		3) ²⁻¹⁷⁻²¹ 4) Feb-19-21	Paint-Brown
EXP-1	None Detected	1)70-80% Cellulose 2) ^{20-30%} Opq	Brown fiberboard - expansion joints
Lab ID # 9092-00056-005		3) 4) Feb-19-21	Fiberboard-Brown
EXP-2	None Detected	1) 70-80% Cellulose 2) 20-30% Opq <i>Fib.Op.Prop. Same as in</i>	Brown fiberboard - expansion joints
Lab ID # 9092-00056-006		3) ²⁻¹⁷⁻²¹ 4) Feb-19-21	Fiberboard-Brown
TX-1	None Detected	1) None Detected 2) 99-100% Calc	Grey texturing-throughout bridge
Lab ID # 9092-00056-007		3) 2-17-21 4) Feb-19-21	Texture-Grey
TX-2	None Detected	 None Detected 99-100% Calc Fib.Op.Prop. Same as in 	Grey texturing-throughout bridge
Lab ID # 9092-00056-008		3) 2-17-21 4) Feb-19-21	Texture-Grey
PARA-1	None Detected	1)None Detected 2)99-100% Qtz, Calc, Opq	Grey concrete - parapet
Lab ID # 9092-00056-009		3) 2-17-21 4) Feb-19-21	Concrete-Grey
PARA-2	None Detected	 None Detected 99-100% Qtz, Calc, Opq Fib.Op.Prop. Same as in 	Grey concrete - parapet
Lab ID # 9092-00056-010		3) ² -17-21 4) Feb-19-21	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 9 Laboratory Analyst_ Greg Hanes

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POLARIZED LIGHT MICROSCOPY ANALYTICAL REPORT

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

Contact: Robert Piekarz Address: Nevada Departmen 1263 South Stewar Carson City, NV 8	nt of Split Layers	es Analyzed: 23	Report No.143843Date Submitted:Feb-17-21Date Reported:Feb-19-21
SAMPLE ID	ASBESTOS % TYPE	OTHER DATA 1) Non-Asbestos Fibers 2) Matrix Materials 3) Date/Time Collected 4) Date Analyzed	DESCRIPTION FIELD LAB
PARA-3	None Detected	1)None Detected 2)99-100% Qtz, Calc, Opq Fib. Op.Prop. Same as in	Grey concrete - parapet
Lab ID # 9092-00056-011		3) ²⁻¹⁷⁻²¹ 4) Feb-19-21	Concrete-Grey
COL-1	None Detected	 None Detected 99-100% Qtz, Calc, Opq Fib. Op. Prop. Same as in 	Grey concrete - support columns
Lab ID # 9092-00056-012		3) 2-17-21 4) Feb-19-21	Concrete-Grey
COL-2	None Detected	1)None Detected 2) ^{99-100%} Qtz, Calc, Opq <i>Fib.Op.Prop. Same as in</i>	Grey concrete - support columns
Lab ID # 9092-00056-013		3) 2-17-21 4) Feb-19-21	Concrete-Grey
COL-3	None Detected	1)None Detected 2) ^{99-100%} Qtz, Calc, Opq <i>Fib.Op.Prop. Same as in</i>	Grey concrete - support columns
Lab ID # 9092-00056-014		3) ²⁻¹⁷⁻²¹ 4) Feb-19-21	Concrete-Grey
STEM-1	None Detected	1)None Detected 2)99-100% Qtz, Calc, Opq Fib. Op.Prop. Same as in	Grey concrete - stem wall
Lab ID # 9092-00056-015		3) 2-17-21 4) Feb-19-21	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 # 9092-00056-016		3) ²⁻¹⁷⁻²¹ 4) Feb-19-21	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 # 9092-00056-017		3) 2-17-21 4) Feb-19-21	Concrete-Grey
DECK-1	None Detected	 None Detected 99-100% Qtz, Calc, Opq Fib.Op.Prop. Same as in 	Grey concrete - bridge deck
Lab ID # 9092-00056-018		3) 2-17-21 4) Feb-19-21	Concrete-Grey
DECK-2	None Detected	1)None Detected 2)99-100% Qtz, Calc, Opq Fib. Op.Prop. Same as in	Grey concrete - bridge deck
Lab ID # 9092-00056-019		3) 2-17-21 4) Feb-19-21	Concrete-Grey
DECK-3	None Detected	 None Detected 99-100% Qtz, Calc, Opq Fib. Op. Prop. Same as in 	Grey concrete - bridge deck
Lab ID # 9092-00056-020		3) ²⁻¹⁷⁻²¹ 4) Feb-19-21	Concrete-Grey

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

-01 Q 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

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Contact: Robert Piekarz Address: Nevada Departme 1263 South Stewa Carson City, NV	ent of Split Layers art Street Job Site / N	es Analyzed: 23	Report No.143843Date Submitted:Feb-17-21Date Reported:Feb-19-21
SAMPLE ID	ASBESTOS % TYPE	OTHER DATA 1) Non-Asbestos Fibers 2) Matrix Materials 3) Date/Time Collected 4) Date Analyzed	DESCRIPTION FIELD LAB
WW-1	None Detected	 None Detected 99-100% Qtz, Calc, Opq Fib. Op. Prop. Same as in 	Grey concrete - wing walls
Lab ID # 9092-00056-021		3) ²⁻¹⁷⁻²¹ 4) Feb-19-21	Concrete-Grey
WW-2	None Detected	 1)None Detected 2)99-100% Qtz, Calc, Opq Fib. Op.Prop. Same as in 	Grey concrete - wing walls
Lab ID # 9092-00056-022		3) 2-17-21 4) Feb-19-21	Concrete-Grey
WW-3	None Detected	 1)None Detected 2)99-100% Qtz, Calc, Opq Fib.Op.Prop. Same as in 	Grey concrete - wing walls
Lab ID # 9092-00056-023		3) 2-17-21 4) Feb-19-21	Concrete-Grey
Lab ID #		1) 2) 3) 4)	
		1) 2)	
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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.

n Laboratory Analyst_ Greg Hanes

ASBESTOS TEM LABORATORIES, INC. 1350

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Page 1 1 3

Carson City, NV 89701	9701			Survey Data	ta					
Inspectors: Brian	Inspectors: Brian Reed/Robert Piekarz	Project Name:	Strblap	2245	ELW	Project Number:	ber:		Date Sampled:	ad: T/17/2/
Phone: 775-888-7892	'892 Fax: 775-888-7104	Project Location:	Haten	V/V		Analysis Type: Abestos	e: Abestos		Air	BUB
Turn-A-Round Time:	Rush	24-Hour - 2 Day	Requests:	Verbals	als Fax	×	Test to Fi	Test to First Positive:		Yes (ND
Lab # Sample ID	le ID Material Description		Sample Location	tion	Location o	Location of Materials	Quantity	Quantity Condition	Friable	Asbestos %
1 Abi	2-1 Ten concrete	c.	Abitmen	to	Breke 2	2845 E/W	1	U	N	
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ĨX.	2 11	7	→)	2			1	3	N	
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Comments/Additional Information	onal Information									
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El - Eucr Insulation 11 - Tank Insulation EJ - Expansion Joint 18 - Bolicer Insulation	CRM - Cove Hase Mastic AT - Acoustical Tile SA - Spray Acoustic W- Wall	151 - Thermal System Insulation R - Ruof DW - Drywall	<u>и</u>	SD - Significant Damage	Damage	CF - Cubic Feet	et	NDA - No A Assumed Ai	NDA - No Asbestos Detected Assumed ACM - No Samples Taken	ted les Taken
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1263 S. Stewart St Carson City, NV 89701	n Hansportation		Surve	Survev Data				Page 21 2	red
Inspectors: Brian Reed/Robert Piekarz	J/Robert Piekarz	Project Name: 8	Brolae 2845	E/4)	Project Number:			Date Sampled: 2	12/2/2
Phone: 775-888-7892	Fax: 775-888-7104	Project Location:	o Hoi	W	Analysis Type: Abestos	bestos		Air	Butt
Turn-A-Round Time:	Rush 24-Hour	Argan	Requests:	Verbals	Fax	Test to First Positive:	t Positive:	Yes	(N)
Lab # Sample ID	Material Description		Sample Location	-	Location of Materials	Quantity	Condition	Friable	Asbestos %
Ru-3	gred concrete		Porapet		Broke 2845 E/W	-	6	N	
2 Cml-1			Summer the	bunt s	1	~	E	N	
3 601-2						-	3	N	
4 [01-3			1			-	Q	N	
5 Stem-1			Stem wall	-		~	5	N	
5 Strm-2				-		-	6	N	
Stem-3			>	. Second		-	6	N	
Beck-1			Brudge De K			-	Q	N	
9 Deck-2			0			-	3	N	
10 Drek3	1/		11		4/	-	S	N	
Comments/Additional Information	Information								
	MATERIAL		_	CONDITION	UNITS	S		ASBESTOS %	
PFI - Pipc Fitted insulation PR Pipc Fun Insulation DI - Duct Insulation TI - Tank Insulation E) - Expansion Joint Bi - Eoiler Insulation	VT - Vinyl Tile M - Mastic CBM - Cove Baso Mastic AT - Acoustical Tile SA - Saray Acoustic W- Wall P - Plaster	GA - Gasket D - Debris TSI - Thermal System Insulation R - Roof 13W - Drywall JC - Joint Compound	G - Good D - Damaged SD - Significar	G - Good D - Damaged SD - Significant Damage	LF - Linear Feet SF - Square Feet GF - Cubic Feet		A - Asmosite Asbestos C - Chrysotile Asbestos NDA - No Asbestos Det Assumed ACM - No San	A - Asmosite Asbestos C - Chrysotile Asbestos NDA - No Asbestos Detected Assumed ACM - No Samples Taken	Taken
BY: 2	NI		Relinquished By:			Relinquished By:	ed By:		
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Nevada Department of Transportation

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an freed fricher: Project Name: 3-45 E.M. Project Name: 3-45 E.M. Project Name: 3-45 E.M. Project Name: 3-45 E.M. Project Location Art 2-45 M. Project Location 2-44 E.M. Project Locat	Carson City, NV 89701			Sur	vey Data						
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AT - Accurated Tile Insulation SA - Spray Accurate R - Roof SA - Spray Accurate R - Roof W: DW - Drywall P - Plaster JC - Joint Compound SY: A March JC - Joint Compound SY: A March JC - Joint Compound SY: A A Date/Time : Date/Time : Date/Time :	DI - Duct Insulation	CBM - Cove Base Mastic	TSI - Thermal System	SD - S	ignificant Dar		CF - Cubic Feet		NDA - NO AS	bestos Detect	ed
SA - Spray Accustic R - Roof w. Wall DW - Drywall w. Wall DW - Drywall P - Plaster JC - Joint Compound SV: F A JC A JC A Date/Time : A D: H A D: H	TI - Tank insulation	AT - Accustical Tile	Insulation						Assumed AC	IM - No Sampl	es Taken
W: The DW - Drywall DW - Drywall P - Plaster JC - Joint Compound Relinquished By: Date/Time : Date/Time : Date/Time : Received By: Rece	El - Expansion Joint	5A - Spray Acoustic	R - Roof								
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N N

Nevada Department of Transportation

Appendix D Material Coating Sample(s) Analytical Results



February 19, 2021

Robert Piekarz Nevada DOT Environmental (NDOT) 1263 S. Stewart St. Carson City, NV 89712 TEL: (775) 888-7692 FAX: (775) 888-7104

RE:

Dear Robert Piekarz:

Order No.: NDO2102083

The result of this report apply to the sample(s) as received.

There were no problems with the analytical events associated with this report unless noted.

Quality control data is within laboratory defined or method specified acceptance limits except if noted.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

Kandy Sandner

Randy Gardner Laboratory Manager 255 Glendale Ave, #21 Sparks, Nevada 89431



Nevada DOT Environmental (NDOT)

Alpha Analytical, Inc. 255 Glendale Ave, #21 Sparks, Nevada 89431 TEL: (775) 355-1044 FAX: (775) 355-0406 Website: www.alpha-analytical.com

Analytical Report

WO#: NDO2102083 Report Date:

2/19/2021

CLIENT:

Project:

Lab ID: 2102083-01

Client Sample ID Bridge 2845 Paint

Collection Date: 2/17/2021 9:45:00 AM

Matrix: OTHER

Analyses	Result	RL	Qual	Units	Date Analyzed	Method
Chromium (Cr)	ND	0.10		mg/L	2/19/2021	Metals by EPA 6020
Arsenic (As)	ND	0.10		mg/L	2/19/2021	Metals by EPA 6020
Selenium (Se)	ND	0.10		mg/L	2/19/2021	Metals by EPA 6020
Silver (Ag)	ND	0.10		mg/L	2/19/2021	Metals by EPA 6020
Cadmium (Cd)	ND	0.10		mg/L	2/19/2021	Metals by EPA 6020
Barium (Ba)	ND	1.0		mg/L	2/19/2021	Metals by EPA 6020
Mercury (Hg)	ND	0.10		mg/L	2/19/2021	Metals by EPA 6020
Lead (Pb)	ND	0.10		mg/L	2/19/2021	Metals by EPA 6020

NOTES:

This analysis was performed on a TCLP extract.



QC SUMMARY REPORT

WO#: **2102083**

19-Feb-21

Client: Project:	Nevada DOT Enviro	onmen	tal (N	DOT)			7	TestCode:	MET	ALS_T_	6020	
-				CompTurpor	MDLK		TestCod				-	
Sample ID: MB-124	117			SampType:	MBLK				5_1_6	Units:	mg/L	
Client ID: PBW				Batch ID:	12417		TestNo:	E200.8				
Prep Date: 2/1	9/2021			RunNo:	11020		SeqNo:	311475				
Analysis Date: 2/1	9/2021											
	_			SPK	SPK				RPD			<u> </u>
Analyte	R	esult	PQL	Value	Ref Val	%REC	LowLimit	HighLimit	Ref Val	%RPD	RPDLimit	Qual
Chromium (Cr)		ND	0.01									
Arsenic (As)			0.005									
Selenium (Se)			0.005									
Silver (Ag)			0.005									
Cadmium (Cd)			0.002									
Barium (Ba)			0.005 0.001									
Mercury (Hg) Lead (Pb)			0.001									
		ND	0.005									
Sample ID: LCS-12	417			SampType:	LCS		TestCod	le: METAL	S_T_6	Units:	mg/L	
Client ID: LCSW				Batch ID:	12417		TestNo:	E200.8				
Prep Date: 2/1	9/2021			RunNo:	11020		SeqNo:	311476				
Analysis Date: 2/1	9/2021											
	0/2021			SPK	SPK				RPD			
Analyte	R	esult	PQL	Value	Ref Val	%REC	LowLimit	HighLimit	Ref Val	%RPD	RPDLimit	Qual
Chromium (Cr)	C	.242	0.01	0.25	0	96.9	79.51	120.49				
Arsenic (As)	C	.247	0.005	0.25	0	98.9	79.51	120.49				
Selenium (Se)	C	.246	0.005	0.25	0	98.4	79.51	120.49				
Silver (Ag)	C	.228	0.005	0.25	0	91.3	79.51	120.49				
Cadmium (Cd)			0.002	0.25	0	91.0	79.51	120.49				
Barium (Ba)			0.005	0.25	0	90.6	79.51	120.49				
Mercury (Hg)			0.001	0.005	0	92.7	79.51	120.49				
Lead (Pb)	0	.226	0.005	0.25	0	90.4	79.51	120.49				
Sample ID: 210208	5-01AMSD			SampType:	MSD		TestCod	le: METAL	S T 6	Units:	mq/L	
Client ID: BatchC				Batch ID:	12417		TestNo:	E200.8			-	
	9/2021			RunNo:	11020		SeqNo:	311479				
	9/2021											
Analyte		esult	PQL	SPK Value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium (Cr)		.252	0.01	0.25	0.0069	98.2	74.51	125.49	0.255	1.1	20	
· · /			0.005	0.25	0	99.2	74.51	125.49	0.257	3.7	20	
Arsenic (As)			0.005	0.25	0	99.3	74.51	125.49	0.251	1.2	20	
()	C C					93.6	74.51	125.49	0.239	2.3	20	
Selenium (Se)		.234	0.005	0.25	0	95.0	74.51	120.40	0.200	2.0	20	
Selenium (Se) Silver (Ag)	0		0.005 0.002	0.25 0.25	0	93.0 92.9	74.51	125.49	0.233	2.0	20	
Arsenic (As) Selenium (Se) Silver (Ag) Cadmium (Cd) Barium (Ba)	0 0	.232										
Selenium (Se) Silver (Ag) Cadmium (Cd)	0 0	.232 0.47	0.002	0.25	0	92.9	74.51	125.49	0.237	2	20	

Qualifiers: B Analyte detected in the associated Method Blank

ND Not Detected at the Reporting Limit

R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits



QC SUMMARY REPORT

WO#: **2102083**

19-Feb-21

Client: Project:	Nevada DOT En	vironmer	ntal (N	DOT)			Т	TestCode:	MET	ALS_T_	_6020	
Sample ID: 2102	2085-01AMSD			SampType:	MSD		TestCod	e: METAL	S_T_6	Units:	mg/L	
Client ID: Batc	hQC			Batch ID:	12417		TestNo:	E200.8				
Prep Date:	2/19/2021			RunNo:	11020		SeqNo:	311479				
Analysis Date:	2/19/2021											
Analyte		Result	PQL	SPK Value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Sample ID: 2102085-01AMS			SampType:	MS		TestCod	e: METAL	S_T_6	Units:	mg/L	
Client ID: BatchQC			Batch ID:	12417		TestNo:	E200.8				
Prep Date: 2/19/2021			RunNo:	11020		SeqNo:	311478				
Analysis Date: 2/19/2021											
			SPK	SPK				RPD			
Analyte	Result	PQL	Value	Ref Val	%REC	LowLimit	HighLimit	Ref Val	%RPD	RPDLimit	Qual
Chromium (Cr)	0.255	0.01	0.25	0.0069	99.3	74.51	125.49				
Arsenic (As)	0.257	0.005	0.25	0	103	74.51	125.49				
Selenium (Se)	0.251	0.005	0.25	0	101	74.51	125.49				
Silver (Ag)	0.239	0.005	0.25	0	95.8	74.51	125.49				
Cadmium (Cd)	0.237	0.002	0.25	0	94.8	74.51	125.49				
Barium (Ba)	0.482	0.005	0.25	0.237	98.2	74.51	125.49				
Mercury (Hg)	0.00482	0.001	0.005	0	96.4	74.51	125.49				
Lead (Pb)	0.239	0.005	0.25	0	95.5	74.51	125.49				

Qualifiers:

- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits



Definition Only

WO#: **2102083** Date: **2/19/2021**

Definitions:

ND = Not Detected

C = Reported concentration includes additional compounds uncharacteristic of common fuels and lubricants.

D = Reporting Limits were increased due to high concentrations of non-target analytes.

H = Reporting Limits were increased due to the hydrocarbons present in the sample.

J = The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

K = DRO concentration may include contributions from lighter-end hydrocarbons (e.g. gasoline) that elute in the DRO range.

L = DRO concentration may include contributions from heavier-end hydrocarbons (e.g. motor oil) that elute in the DRO range.

O = Reporting Limits were increased due to sample foaming.

V = Reporting Limits were increased due to high concentrations of target analytes.

X = Reporting Limits were increased due to sample matrix interferences.

Z = DRO concentration may include contributions from lighter-end (e.g. gasoline) and heavier-end (e.g. motor oil) hydrocarbons that elute in the DRO range.

S50 = The analysis of the sample required a dilution such that the surrogate concentration was diluted below the laboratory acceptance criteria. The laboratory control sample was acceptable.

S51 = Surrogate recovery could not be determined due to the presence of co-eluting hydrocarbons.

S52 = Surrogate recovery was above laboratory acceptance limits. Probable matrix effect.

S53 = Surrogate recovery was below laboratory acceptance limits. Probable matrix effect.

S54 = Surrogate recovery was below laboratory acceptance limits.

S55 = Surrogate recovery was above laboratory acceptance limits.

	NDO2102083 03-Mar-21 NO			Date Received: 17-Feb-21		Sample Remarks			Date/Time	2/n/2/ 11:40	at client expense.
NV	WorkOrder: 1 Report Due By: 0 EDD Required: 7			Date	Requested Tests				Company	Alpha Analytical, Inc.	will be returned to client or disposed of stic OT-Other
WORKORDER SUMMARY	Alpha Analytical, Inc. 255 Glendale Ave, #21 Sparks, Nevada 89431 TEL: (775) 355-1044 FAX: (775) 355-0406	Report Attention: Robert Piekarz	TEL: 7758887692 FAX: 7758887104	ProjectNo:	tion No. of Bottles		9:45:00 1 0 10 A-TCLP_8		Print Name	Jammy Brace	o oNOTE: Samples are discarded 60 days after sample receipt unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense. D A
Robert Pickarz			ent: Nevada DOT Environmental (NDOT) 1263 S. Stewart St.	Carson City, NV 89712	Client	Sample ID Matrix Date	Bridge 2845 Paint OTHER 2/17/2021 9:45:00 AM	Paint Chips	Signature	by: 2 2 2 -	Samples are discarded 60 days after sample receipt unless oth Bottle Type: L-Liter V-Voa
Report CC's			Client: Nevada [1263 S. S	Carson C	Alnha	Sample ID	NDO2102083-01	Comments:		Logged in by: bad	ё e 6 of 7

Сотрали	Billing Information: Nevada Department of Transportation	Nualyri	Alpha , Main Laboratory 255 Glen	Alpha Analytical, Inc. Main Laboratory. 255 Glendale Ave, Suite 21 Sparks, NV 89431	Phone: 775-355-1044	
Attn:	Robert Pikarz	Inc.			Fax: 775-355-0406	
Address: City, State, Zp: Phone Numher	1263 S. Stewart Street Carson City, NV 89712 776-884-7605 Fax		Satellite : Northern CA: 9891 Horn Roa Southern MY: 6255 McLeod	Satellite Service Centers: Northern CA: 9891 Hbrn Road, Suite C, Rancho Cordova, CA 95827 Southern MV: 6255 McLeod Ave. Suite 24. Las Venas. NV 89120	Phone: 916-366-9089 Phone: 702-736-7522	
		Tonmental .	Southern CA: 1007 E Domi	Southern CA: 1007 E. Dominguez St., Suite O. Carson, CA 90746		Page # 1 of
	Consultant/ Client Info:	Job an		Report Attention/Project Manager:	QC Deliv	able Info:
Company. Address:	Same As Above	Job # Not Applicable Job Name:	Email Address:	Robert Piekarz rpiekarz@dot state.nv.us	EUU Kequired? Yes / No	Vo EUF Kequired? Yes / N
City, State, Zp:		P.O.#:	Phone #:		Global ID:	
Samples Collecte	Samples Collected from which State? (circle one) AZ CA NV.	WA ID OR DOD Site Other	Cell #:		Data Validation Level:	III or IV
			-	Analysis Requested	-	Remarks
Time Date Matrix Sampied (See Kay (HHMM) (MMDD)a Balow)	Matrix Matrix 1 (See Kery 1 Belokery 1 Belokery 1 Belokery	Sample Description	로 Held Filtered? TCLF RCRAS			
0945 2/17	NDn 2107 083-01	Bridge 2845 Paint 5	Stud A OT-1 X			
>		0				
ADDITIONAL INSTRUCTIONS:	TRUCTIONS:					
I (field sampler) a	l (field sampler) attest to the validity and authenticity of this sample(s). I am aware that tampering with or		ly mislabeling the sample location, date	intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action. NAC 445.0636 (c) (2).	ay be grounds for legal action. NAC 445	.0636 (c) (2).
Sampled By:	•					
Relinquished by	Deg	112/21	Received by: (Signature/Affiliation)	Murey D	Date:	21 1040
Relifiquished by (Date: Time:	Received by: (Signature/Affiliation))	Date:	Time:
Relinquished y (Relinquisher (Signature/Affliation):	Date: Time:	Received by: (Signature/Affiliation):		Date:	Time:
NOTE: Samples	NOTE: Samples are discarded 60 days after sample receipt unless other arrangements are made. Maste OT - Other •••: L - Litter V - VOA S-Soil Jar O - Orbo T - Tedlar B - Brass P - Plastic OT - Other NOTE: Samples are discarded 60 days after sample receipt unless other arrangements are made. Marter other externed to client or disposed of at client exerse. The report for the analysis of the above samples is applicable only those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report.	WA - Waste OT - Other •••• her arrangements are made. Hzardous samples w s limited to the amount paid for the report.	**: L - Liter V - VOA S-Soil J. s will be returned to client or disposed of at cl	ar <u>O-Orbo T-Tedlar B-Bras</u> lient qu ense. The report for the analysis of the ab	s P - Plastic OT - Other ove samples is applicable onlyto those sar	npies

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Appendix E Inspector Certifications and Licenses

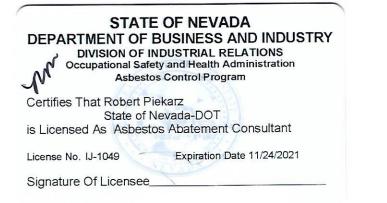
STATE OF NEVADA DEPARTMENT OF BUSINESS AND INDUSTRY DIVISION OF INDUSTRIAL RELATIONS Occupational Safety and Health Administration Asbestos Control Program

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