IOWA DEPARTMENT OF TRANSPORTATION

To FILE Date May 16, 2022

From Brad Azeltine

Bureau Location and Environment

Subject Asbestos Inspection

The asbestos inspection requested by Bridges and Structures has been completed. The results are as follows:

DATE OF INSPECTION – May 3, 2022
CERTIFIED AHERA INSPECTOR(S) – Brad Azeltine
COUNTY – Harrison
PROJECT NO. – IMX-029-4(138)76—02-43 (SB)
BRIDGE MAINTENANCE # – 4375.7R029/4375.7L029
FHWA # – 028100/028110
ITEM – NB & SB I-29 Bridges at the US 30 Interchange

SAMPLE #1 – Joint filler between the top of the pier caps and the diaphragms - NB, 126 sq. ft.
TEST RESULTS – 5% chrysotile asbestos

SAMPLE #2 – Joint filler between the top of the pier caps and the diaphragms - SB, 162 sq. ft.
TEST RESULTS – No asbestos present

SAMPLE #3 – Fabric pads under the bearings - NB, 60 sq. ft.
TEST RESULTS – No asbestos present

SAMPLE #4 – Fabric pads under the bearings - SB, 60 sq. ft.
TEST RESULTS – No asbestos present

SAMPLE #5 – Joint filler in the vertical joints between the outside corners of the abutments and the bridge deck - NB, 24 sq. ft.
TEST RESULTS – No asbestos present

SAMPLE #6 – Joint filler in the vertical joints between the outside corners of the abutments and the bridge deck - SB, 24 sq. ft.
TEST RESULTS – No asbestos present

SAMPLE #7 – Remnants of tar sealant on the abutment wall faces at the top of the rock slope protection and on the concrete curbs for the rock slope protection - NB, 50 sq. ft.
TEST RESULTS – 10% chrysotile asbestos

SAMPLE #8 – Remnants of tar sealant on the abutment wall faces at the top of the rock slope protection and on the concrete curbs for the rock slope protection - SB, 50 sq. ft.
TEST RESULTS – 5% chrysotile asbestos

SAMPLE #9 – Tar dribbled down the north abutment wall face - SB, 10 sq. ft.
TEST RESULTS – No asbestos present

SAMPLE #10 – Tar sealant in the joints between the pavement approaches and the bridge deck and on the joints between the end of the approach curbs and the concrete bridge railings - NB, 10 sq. ft.
TEST RESULTS – No asbestos present

SAMPLE #11 – Joint filler between the top of the abutments and the diaphragms - NB, 42 sq. ft.
TEST RESULTS – No asbestos present

SAMPLE #12 – Remnants of tar sealant in the joints between the pavement approaches and the bridge deck - SB, 8 sq. ft.
TEST RESULTS – No asbestos present

ANALYTICAL REPORT

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Phone: 515-279-8042 Fax: 515-279-1853

IDOT
800 Lincoln Way
Ames, IA 50010

Lab Id #: 106404
Project #: 4375.7R029

Sample Description: **Client #** 1

Joint Filler

Date Taken: 5/3/2022 **Date Received:** 5/5/2022

Asbestos Identification

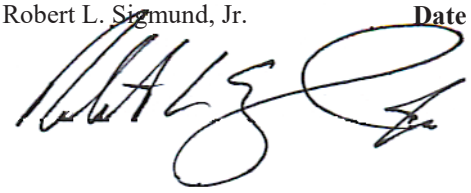
Sample Color: Black

Fibrous Asbestiforms	**Estimated % by volume**
Actinolite/Tremolite:	ND
Amosite:	ND
Anthophylite:	ND
Chrysotile:	5
Crocidolite:	ND
Total Asbestiforms:	5
Other Components	
Cellulose:	25
Fibrous Glass:	ND
Synthetics	ND
Perlite:	ND
Horse Hair:	ND
Quartz:	ND
Other Fibrous Component	ND
Nonfibrous	70

Analyst Notes:

All analysis are performed by polarized light microscopy using the EPA 600/R-93-116 Method. Disclaimer: PLM has been known to miss asbestos in a small percentage of samples reported which contain asbestos. Thus negative results cannot be guaranteed. Iowa Environmental Services, Inc. suggest that samples reported as <1% or nondetected to be tested with either SEM or TEM. The above analytical report relates only to the sample submitted for analysis. This report may not be reproduced, except in full without written approval of Iowa Environmental Services, Inc. This laboratory is not responsible for the accuracy of results when requested to physically separate and analyse layered samples. Member of the American Industrial Hygiene Association(AIHA) Bulk Quality Assurance Program, Laboratory ID: 101039

Analyzed By: Robert L. Sigmund, Jr. **Date Analyzed:** 5/6/2022



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Lab Id #: 106405
Project #: 4375.7R029

Sample Description: **Client #** 2

Joint Filler

Date Taken: 5/3/2022 **Date Received:** 5/5/2022

Asbestos Identification

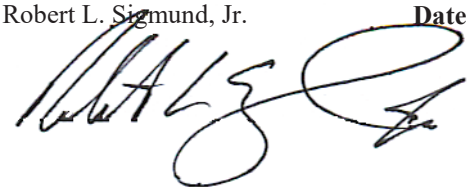
Sample Color: Black

Fibrous Asbestiforms	**Estimated % by volume**
Actinolite/Tremolite:	ND
Amosite:	ND
Anthophylite:	ND
Chrysotile:	ND
Crocidolite:	ND
Total Asbestiforms:	ND
Other Components	
Cellulose:	35
Fibrous Glass:	ND
Synthetics	ND
Perlite:	ND
Horse Hair:	ND
Quartz:	ND
Other Fibrous Component	ND
Nonfibrous	65

Analyst Notes:

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Analyzed By: Robert L. Sigmund, Jr. **Date Analyzed:** 5/6/2022



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Lab Id #: 106406
Project #: 4375.7R029

Sample Description: **Client #** 3

Fabric Pad

Date Taken: 5/3/2022 **Date Received:** 5/5/2022

Asbestos Identification

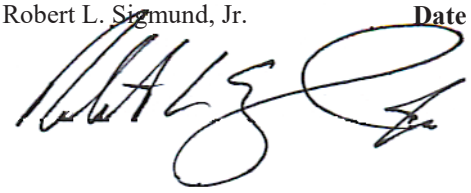
Sample Color: Brown

Fibrous Asbestiforms	**Estimated % by volume**
Actinolite/Tremolite:	ND
Amosite:	ND
Anthophylite:	ND
Chrysotile:	ND
Crocidolite:	ND
Total Asbestiforms:	ND
Other Components	
Cellulose:	90
Fibrous Glass:	ND
Synthetics	ND
Perlite:	ND
Horse Hair:	ND
Quartz:	ND
Other Fibrous Component	ND
Nonfibrous	10

Analyst Notes:

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Analyzed By: Robert L. Sigmund, Jr. **Date Analyzed:** 5/6/2022



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Lab Id #: 106407
Project #: 4375.7R029

Sample Description: **Client #** 4

Fabric Pad

Date Taken: 5/3/2022 **Date Received:** 5/5/2022

Asbestos Identification

Sample Color: Brown

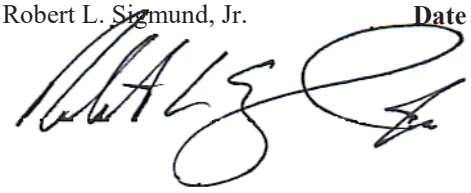
Fibrous Asbestiforms	**Estimated % by volume**
Actinolite/Tremolite:	ND
Amosite:	ND
Anthophylite:	ND
Chrysotile:	ND
Crocidolite:	ND
Total Asbestiforms:	ND

Other Components	
Cellulose:	95
Fibrous Glass:	ND
Synthetics	ND
Perlite:	ND
Horse Hair:	ND
Quartz:	ND
Other Fibrous Component	ND
Nonfibrous	5

Analyst Notes:

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Lab Id #: 106408
Project #: 4375.7R029

Sample Description: **Client #** 5

Joint Filler

Date Taken: 5/3/2022 **Date Received:** 5/5/2022

Asbestos Identification

Sample Color: Brown/Black

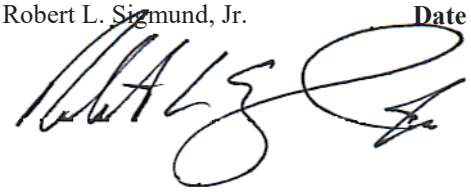
Fibrous Asbestiforms	**Estimated % by volume**
Actinolite/Tremolite:	ND
Amosite:	ND
Anthophylite:	ND
Chrysotile:	ND
Crocidolite:	ND
Total Asbestiforms:	ND

Other Components	
Cellulose:	97
Fibrous Glass:	ND
Synthetics	ND
Perlite:	ND
Horse Hair:	ND
Quartz:	ND
Other Fibrous Component	ND
Nonfibrous	3

Analyst Notes:

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Analyzed By: Robert L. Sigmund, Jr. **Date Analyzed:** 5/6/2022



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Lab Id #: 106409
Project #: 4375.7R029

Sample Description: **Client #** 6

Joint Filler

Date Taken: 5/3/2022 **Date Received:** 5/5/2022

Asbestos Identification

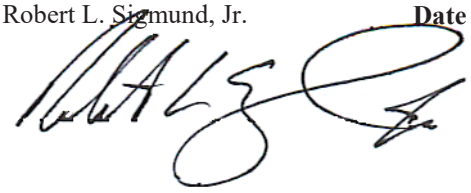
Sample Color: Black

Fibrous Asbestiforms	**Estimated % by volume**
Actinolite/Tremolite:	ND
Amosite:	ND
Anthophylite:	ND
Chrysotile:	ND
Crocidolite:	ND
Total Asbestiforms:	ND
Other Components	
Cellulose:	25
Fibrous Glass:	ND
Synthetics	ND
Perlite:	ND
Horse Hair:	ND
Quartz:	ND
Other Fibrous Component	ND
Nonfibrous	75

Analyst Notes:

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Lab Id #: 106410
Project #: 4375.7R029

Sample Description: **Client #** 7

Tar

Date Taken: 5/3/2022 **Date Received:** 5/5/2022

Asbestos Identification

Sample Color: Black

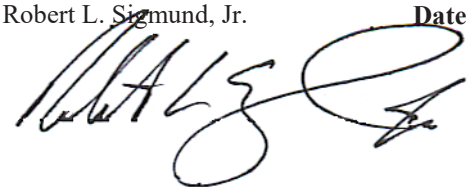
Fibrous Asbestiforms	**Estimated % by volume**
Actinolite/Tremolite:	ND
Amosite:	ND
Anthophylite:	ND
Chrysotile:	10
Crocidolite:	ND
Total Asbestiforms:	10

Other Components	
Cellulose:	ND
Fibrous Glass:	ND
Synthetics	ND
Perlite:	ND
Horse Hair:	ND
Quartz:	ND
Other Fibrous Component	ND
Nonfibrous	90

Analyst Notes:

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Lab Id #: 106411
Project #: 4375.7R029

Sample Description: **Client #** 8

Tar

Date Taken: 5/3/2022 **Date Received:** 5/5/2022

Asbestos Identification

Sample Color: Black

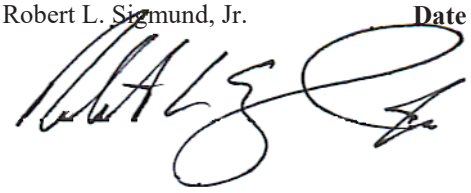
Fibrous Asbestiforms	**Estimated % by volume**
Actinolite/Tremolite:	ND
Amosite:	ND
Anthophylite:	ND
Chrysotile:	5
Crocidolite:	ND
Total Asbestiforms:	5

Other Components	
Cellulose:	ND
Fibrous Glass:	ND
Synthetics	ND
Perlite:	ND
Horse Hair:	ND
Quartz:	ND
Other Fibrous Component	ND
Nonfibrous	95

Analyst Notes:

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Lab Id #: 106412
Project #: 4375.7R029

Sample Description: **Client #** 9

Tar

Date Taken: 5/3/2022 **Date Received:** 5/5/2022

Asbestos Identification

Sample Color: Black

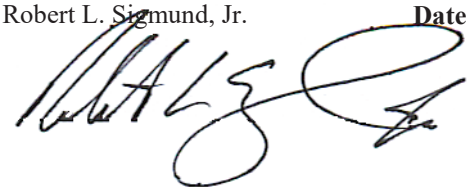
Fibrous Asbestiforms	**Estimated % by volume**
Actinolite/Tremolite:	ND
Amosite:	ND
Anthophylite:	ND
Chrysotile:	ND
Crocidolite:	ND
Total Asbestiforms:	ND

Other Components	
Cellulose:	5
Fibrous Glass:	ND
Synthetics	ND
Perlite:	ND
Horse Hair:	ND
Quartz:	ND
Other Fibrous Component	ND
Nonfibrous	95

Analyst Notes:

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Lab Id #: 106413
Project #: 4375.7R029

Sample Description: **Client #** 10

Tar

Date Taken: 5/3/2022 **Date Received:** 5/5/2022

Asbestos Identification

Sample Color: Black

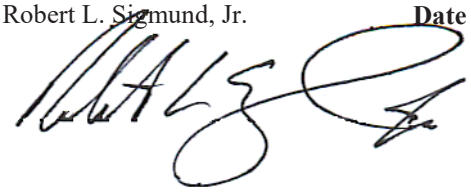
Fibrous Asbestiforms	**Estimated % by volume**
Actinolite/Tremolite:	ND
Amosite:	ND
Anthophylite:	ND
Chrysotile:	ND
Crocidolite:	ND
Total Asbestiforms:	ND

Other Components	
Cellulose:	2
Fibrous Glass:	ND
Synthetics	ND
Perlite:	ND
Horse Hair:	ND
Quartz:	ND
Other Fibrous Component	ND
Nonfibrous	98

Analyst Notes:

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Lab Id #: 106414
Project #: 4375.7R029

Sample Description: **Client #** 11

Joint Filler

Date Taken: 5/3/2022 **Date Received:** 5/5/2022

Asbestos Identification

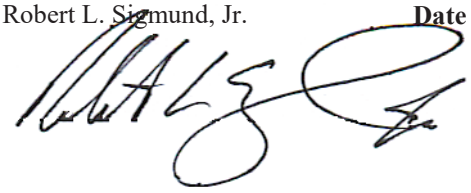
Sample Color: Brown/Black

Fibrous Asbestiforms	**Estimated % by volume**
Actinolite/Tremolite:	ND
Amosite:	ND
Anthophylite:	ND
Chrysotile:	ND
Crocidolite:	ND
Total Asbestiforms:	ND
Other Components	
Cellulose:	90
Fibrous Glass:	ND
Synthetics	ND
Perlite:	ND
Horse Hair:	ND
Quartz:	ND
Other Fibrous Component	ND
Nonfibrous	10

Analyst Notes:

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IDOT
800 Lincoln Way
Ames, IA 50010

Lab Id #: 106415
Project #: 4375.7R029

Sample Description: **Client #** 12

Tar

Date Taken: 5/3/2022 **Date Received:** 5/5/2022

Asbestos Identification

Sample Color: Black

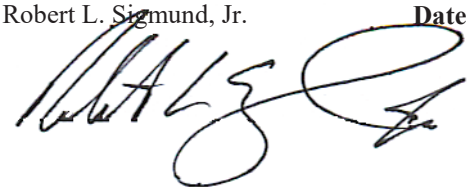
Fibrous Asbestiforms	**Estimated % by volume**
Actinolite/Tremolite:	ND
Amosite:	ND
Anthophylite:	ND
Chrysotile:	ND
Crocidolite:	ND
Total Asbestiforms:	ND

Other Components	
Cellulose:	2
Fibrous Glass:	ND
Synthetics	ND
Perlite:	ND
Horse Hair:	ND
Quartz:	ND
Other Fibrous Component	ND
Nonfibrous	98

Analyst Notes:

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CHAIN OF CUSTODY RECORD

Client Name: Iowa DOT
ATTN: Brad Azeltine

Address: 800 Lincoln Way
Ames, IA 50010

Phone #: 515-239-1938

FAX #: 515-239-1726

Project: 4375.7R029

Date Samples: 5-3-2022

Date Submitted:

P.O. #: 8023

Email: brad.azeltine@iowadot.us

Date	Sample #	Sample Description	Asbestos/Mold Bulk	Air		
				Time	Flow	Volume
5-3-2022	1	Joint Filler	Asb			
	2	" "				
	3	Fabric Pad				
	4	" "				
	5	Joint Filler				
	6	" "				
	7	Tar				
	8	"				
	9	"				
	10	"				
	11	Joint Filler				
	12	Tar				

Relinquished by: _____ Date/Time: 5-5-2022 0900

Received by: _____ Date/Time: 5-5-2022

Relinquished by: _____ Date/Time: _____

Received by: _____ Date/Time: _____