

June 8, 2022

Mr. Jason Coite, P.E. Principal Engineer Division of Environmental Compliance Bureau of Engineering and Construction State of Connecticut Department of Transportation 2800 Berlin Turnpike, P.O. Box 317546 Newington, CT 06131-7546

Attention: Amie Maines, P.E. / Michael Bedson, P.E.

Subject: On-Call Asbestos, Lead, Air Quality & Demolition Compliance Agreement No. 8.07-01 (18) HazMat Inspection – Replacements of Bridge Nos. 06896 & 02713, Old Lyme & East Lyme, CT ConnDOT Assignment No. 519-6541 ConnDOT Project No. 104-175 TRC Project No. 289951.6541.0710

Dear Mr. Coite:

TRC performed a limited hazardous materials site investigation associated with the planned replacements of Bridge Nos. 06896 & 02713 in Old Lyme & East Lyme, CT, Connecticut. No painted surfaces were identified at Bridge Nos. 06896 & 02713, therefore no lead paint was identified at either bridge. Suspect asbestos asphalt coatings inside the corrugated metal pipes at both Bridge Nos. 06896 & 02713 were sampled and found to contain <u>no detectable</u> amounts of asbestos. No other hazmat/regulated items were identified at Bridge Nos. 06896 & 02713. Laboratory results, TRC Mobile Data Solutions reports, and site maps are attached.

If you have any questions, please call TRC at (860) 298-9692.

Very Truly Yours,

TRC

En R. Cini

Stephen R. Arienti, CHMM Senior Project Manager – Engineer in Charge

Find RM

Erik R. Plimpton, P.E., CHMM, CMC Vice President – Engineer in Charge



CLIENT: CT Department of Transportation

Lab Log #:	0058310
Project #:	289951.6541.0710
Date Received:	01/19/2022
Date Analyzed:	01/20/2022

Site: Bridge/Culvert #06896

POLARIZED LIGHT MICROSCOPY by EPA 600/R-93/116

Sample No.	Sample Location	Homogeneous Material Description	Other Matrix Materials	Asbestos %	Asbestos Type
1	South end (outlet) of culvert	Black TC1 - shiny tar coating on inside of culvert		ND	None
2	North end (inlet) of culvert	Black TC1 - shiny tar coating on inside of culvert		ND	None

ND - asbestos was not detected

Trace - asbestos was observed at level of 1% or less - This is the reporting limit

NA/PS - Not Analyzed / Positive Stop

SNA - Sample Not Analyzed- See Chain of Custody for details

Notes: Asbestos-Containing Material (ACM) is any material containing more than 1% asbestos

Note: Polarized-light microscopy is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. In those cases, EPA recommends, and certain states (e.g. NY) require, that negative results be confirmed by quantitative transmission electron microscopy.

The Laboratory at TRC follows the EPA's Interim Method for the Determination of Asbestos in Bulk Insulation 1982 (EPA 600/M4-82-020) Bulk Analysis Code 18/A01 and the EPA recommended Method for the Determination of Asbestos in Bulk Building Materials July 1993, R.L. Perkins and B.W. Harvey, (EPA/600/R-93/116) Bulk Analysis Code 18/A03, which utilize polarized light microscopy (PLM). Our analysts have completed an accredited course in asbestos identification. TRC's Laboratory is accredited under the National Voluntary Laboratory Accreditation Program (NVLAP), for Bulk Asbestos Fiber Analysis, NVLAP Code 18/A01, effective through June 30, 2022. TRC is accredited by the AIHA Laboratory Accreditation Programs (AIHA-LAP), LLC in the Industrial Hygiene Program (IHLAP) for PLM effective through October 1, 2022. Asbestos content is determined by visual estimate unless otherwise indicated. Quality Control is performed in-house on at least 10% of samples and QC data related to the samples is available upon written request from client.

This report shall not be reproduced, except in full, without the written approval of TRC. This report must not be used by the client to claim product endorsement by NVLAP or any agency of the U.S. Government. This report relates only to the items tested.

Analyzed by:

Reviewed by:

Kile

Date Issued 01/21/2022

Joel Corso. Laboratory Analyst

Kathleen Williamson, Laboratory Manager

TRC LABORATORY ASBESTOS ANALYTICAL ACCREDITATIONS

NVLAP Lab Code 101424-0 RI #PLM0007 TX #300354 CO# AL-15020

AIHA-LAP,LLC #100122 CT #PH-0426 VT #AL910359 LA#05011 VA #3333 000283 PHIL# 461 PA#68-03387

AZ #A20944

HI #L-09-004

ME LA-0075, LB-0071 MA #AA000052 NY #10980 WV #000622 NJ #CT004 CA #2907

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CLIENT: CT Department of Transportation

Lab Log #:	0058309
Project #:	289951.6541.0710
Date Received:	01/19/2022
Date Analyzed:	01/20/2022

Site: Bridge/Culvert #02713

POLARIZED LIGHT MICROSCOPY by EPA 600/R-93/116

Sample No.	Sample Location	Homogeneous Material Description	Other Matrix Materials	Asbestos %	Asbestos Type
1	West side (inlet)	Black TC1 - shiny tar coating on inside of culvert		ND	None
2	East side (outlet)	Black TC1 - shiny tar coating on inside of culvert		ND	None

ND - asbestos was not detected

Trace - asbestos was observed at level of 1% or less - This is the reporting limit

NA/PS - Not Analyzed / Positive Stop

SNA - Sample Not Analyzed- See Chain of Custody for details

Notes: Asbestos-Containing Material (ACM) is any material containing more than 1% asbestos

Note: Polarized-light microscopy is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. In those cases, EPA recommends, and certain states (e.g. NY) require, that negative results be confirmed by quantitative transmission electron microscopy.

The Laboratory at TRC follows the EPA's Interim Method for the Determination of Asbestos in Bulk Insulation 1982 (EPA 600/M4-82-020) Bulk Analysis Code 18/A01 and the EPA recommended Method for the Determination of Asbestos in Bulk Building Materials July 1993, R.L. Perkins and B.W. Harvey, (EPA/600/R-93/116) Bulk Analysis Code 18/A03, which utilize polarized light microscopy (PLM). Our analysts have completed an accredited course in asbestos identification. TRC's Laboratory is accredited under the National Voluntary Laboratory Accreditation Program (NVLAP), for Bulk Asbestos Fiber Analysis, NVLAP Code 18/A01, effective through June 30, 2022. TRC is accredited by the AIHA Laboratory Accreditation Programs (AIHA-LAP), LLC in the Industrial Hygiene Program (IHLAP) for PLM effective through October 1, 2022. Asbestos content is determined by visual estimate unless otherwise indicated. Quality Control is performed in-house on at least 10% of samples and QC data related to the samples is available upon written request from client.

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Analyzed by:

Reviewed by:

Ki he

Date Issued 01/21/2022

Joel Corso. Laboratory Analyst

Kathleen Williamson, Laboratory Manager

TRC LABORATORY ASBESTOS ANALYTICAL ACCREDITATIONS

NVLAP Lab Code 101424-0 RI #PLM0007 TX #300354 CO# AL-15020

AIHA-LAP,LLC #100122 CT #PH-0426 VT #AL910359 LA#05011 VA #3333 000283 PHIL# 461 PA#68-03387

AZ #A20944

ME LA-0075, LB-0071 MA #AA000052 NY #10980 WV #000622 HI #L-09-004

NJ #CT004 CA #2907

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8	1/19/2022	14.22		$ \times$	East side (outlet)	×				Ĥ	C1 - Black	shiny tar	· coating	; on in:	side of c	ulvert	
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Aerobiology <u>Aerobiology</u> Laboratory Associates, <u>Incorporated</u>

A Pace Analytical® Laboratory

January 27, 2022

Erik Plimpton TRC Companies, Inc. (CT) 21 Griffin Road North Windsor, CT 06095

Dear Erik Plimpton,

Results of samples you described and submitted to Aerobiology Laboratory Associates, Inc.. are shown on the enclosed data sheets. The analytical results in this report apply to the items tested only.

The listed samples were prepared and analyzed in compliance with the New York State Transmission Electron Microscope Method for Identifying and Quantitating Asbestos in Non-Friable Organically Bound Bulk Samples. This method is used for the determination of weight percent of asbestos in non-friable materials.

The sample is processed to remove non-asbestos interference. The remaining residue is examined using a Philips transmission electron microscope equipped with selected area electron diffraction (SAED) and an Evex energy dispersive x-ray analyzer.

The following are reported: identification numbers, type of material, initial weight of the sample, weight percent of organic material lost by ashing, weight percent of carbonates lost by acid dissolution, weight percent of non-fibrous/non asbestos inorganic material, total weight percent of asbestos in the original sample, and the type(s) of asbestos, if any.

The EPA recognizes asbestos as the following: actinolite, amosite, anthophyllite, chrysotile, crocidolite, and tremolite. To be considered asbestos containing, a material must be determined to contain greater than one percent asbestos. Samples are retained for a period of 2 months.

The quality control data related to the samples analyzed are available for review upon the written request of the client. Aerobiology Laboratory Associates, Inc. and its personnel assume no responsibility for potential sample contamination, misuse, misinformation, or misrepresentation by the client. The enclosed results may not be used under any circumstances as product endorsement by any US government agency including NIST/NVLAP. This report may not be reproduced, except in its entirety, without permission of the Aerobiology Laboratory Associates, Inc. Laboratory Manager.

Please contact me if you have any questions regarding this report or related information.

Sincerely,

Mark Derosier, Senior Analyst Aimee Cormier, Laboratory Manager

Enclosure:

BATCH NUMBER : NT 18964 CLIENT PROJECT ID: 289951.6541.0710 Client Ref: CT DOT - Bridge/Culvert #06896 CT ID# PH-0209; MA ID# AA000156; ME ID# LB-055; ME ID# LA-056; VT ID# AL016876; RI ID# 186.

Aerobiology Laboratory Associates, In

22 Cummings Park, Woburn, Massachusetts 01801 781-935-3212 ~ Fax: 781-932-4857 ~ E-Mail boston@aerobiology.net

Laboratory Report

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trged /	estos Cha	Asb	Carb	Organic	Non-asb.	TRE	ANT	CRO	ACT	AMO	CHR	Weight	Color	Description:		
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1/27/2022	of Report:	Date o												Companies, Inc. (CT)	TRC	Client Name
1/27/2022	\nalyzed:	Date A													297	Client #:
1/24/2022	Received:	Date R												951	C2899	PO #:
NOB	Ģ	Metho												00T - Bridge/Cuivert #06896	nce: CT D	Client Refere
NT 18964		Batch												51.6541.0710	t#: 2899	Client Projec

Comments:

NT143029 1

Black Shiny Tar Coating

.2029

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Yes

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Key: CHR = Chrysofile AMO = Amosite CRO = Crocidolite ACT = Actinolite TRE = Tremolite ANT = Anthophyllite TR = Trace = < 1% ND = None Detected

Almee Cormier, Analyst

Page 1 of 1

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PA N.O.B Qualitative	Chatfield E	Analysis Type)51	PO#: C289
NH 18964	, Inc. _{ax} 781-932-4857	Associates 781-935-3212 Fe body Record	⁷ Laboratory n, MA 01801 Ph. (Bulk Chain of Cust	erobiology _{gs} Park, Wobur TEM 1	A 22 Cumming		Date: 01/21/2022



A Pace Analytical® Laboratory

Erik Plimpton TRC Companies, Inc. (CT) 21 Griffin Road North Windsor, CT 06095

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The quality control data related to the samples analyzed are available for review upon the written request of the client. Aerobiology Laboratory Associates, Inc. and its personnel assume no responsibility for potential sample contamination, misuse, misinformation, or misrepresentation by the client. The enclosed results may not be used under any circumstances as product endorsement by any US government agency including NIST/NVLAP. This report may not be reproduced, except in its entirety, without permission of the Aerobiology Laboratory Associates, Inc. Laboratory Manager.

Please contact me if you have any questions regarding this report or related information.

Sincerely,

me Mark Derosier, Senior Analyst

Mark Derosier, Senior Analyst Aimee Cormier, Laboratory Manager

Enclosure:

BATCH NUMBER : NT 18963 CLIENT PROJECT ID: 289951.6541.0710 Client Ref: CT DOT - Bridge/Culvert #02713 CT ID# PH-0209; MA ID# AA000156; ME ID# LB-055; ME ID# LA-056; VT ID# AL016876; RI ID# 186.

January 27, 2022

Aerobiology Laboratory Associates, In

22 Cummings Park, Woburn, Massachusetts 01801 781-935-3212 ~ Fax: 781-932-4857 ~ E-Mail boston@aerobiology.net

Laboratory Report

289951.6541.071 CT DOT - Bridge/ C289951 297 TRC Companies,
0 Culvert #02713 Inc. (CT)
n ifiat
% Asbestos Types
% Other %
Batch: Method: Date Received: Date Analyzed: Date of Report: 7 Total %
NT 18963 NOB 1/24/2022 1/27/2022 1/27/2022 alyzed / Prepped

NT143028 1 LAB ID Field ID Black Shiny Tar Coating Description: Color Weight CHR AMO ACT CRO ANT TRE Non-asb. Organic Carb. Asbestos Charged Charged .1147 . 8 . 8 . 8 . 8 8 8 .96 98.52 .52 Ŋ Yes N 0

Comments:

Key: CHR = Chrysotile AMO = Amosite CRO = Crocidolite ACT = Actinolite TRE = Tremolite ANT = Anthophyllite TR = Trace = < 1% ND = None Detected

June & Conner

Aimee Cormier, Analyst

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omments	Reported Co	Results F	Batch #	Client #	Total	# Spies	For Lab Use Only
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EPA N.O.B Qualitative	Chatfield	Analysis Type:					PO#: C289951 Client: TRC
7 NT 18463	Inc. x 781-932-485	Associates, 781-935-3212 Fa ody Record	boratory A 01801 Ph. 7 Chain of Cust	iology La , Woburn, M TEM Bulk	Aerob: mmings Park	, 22 Cu	Date: 01/21/2022
1							

WinBSI HBM Survey

ConnDOT, Bridge/Culvert #06896

6/2/2022, 9:38:34 AM EDT

CREATED

④ 1/19/2022, 11:42:51 AM EST

Solution State State

UPDATED

④ 6/2/2022, 9:38:34 AM EDT

Stephen Arienti

STATUS

Complete

ASSIGNED TO

No Assignment







JOB INFORMATION

Site Name	Bridge/Culvert #06896
Address	
TRC Project Number	289951.6541.0710
Project Manager	Erik Plimpton, Stephen Arienti
Inspector(s)	Alan Fortin
Client	ConnDOT
Type of Asbestos Survey	Reno/Demo
Site Sketch Diagrams	
Additional Analysis for NOB Materials (Calc)	TEM NY NOB 198.4
PLM Turnaround Time (TAT)	
TEM Turnaround Time (TAT)	3-day
Date	January 19, 2022
General Notes	No painted materials. Culvert pipe is rusted throughout. No visible caulking. No guano present. Black shiny tar present in culvert pipe.







Overview Photo









Options & Other Setting	S
Use auto-numbering?	No
Auto-fill gaps?	Yes
Alert user about missing site sketch?	Yes
SURVEYS PERFORMED	Asbestos

Asbestos Survey

Materials & Samples (1 Item)

Materials & Samples - 1. (2) Samples #01–02: TC1–Black shiny tar coating on inside of culvert

Sample Information

Asbestos Samples (2 Items)

Asbestos Samples - 1. Sample #01: TC1...South end (outlet) of culvert

Sample Number	01
Sample Location	South end (outlet) of culvert
Asbestos Bulk Analysis	PLM EPA 600/R93/116
Grab or Composite	Grab
Date	January 19, 2022
Time	11:45

Sample Location Photo

Asbestos Samples - 2. Sample #02: TC1...North end (inlet) of culvert

Sample Number	02
Sample Location	North end (inlet) of culvert





Asbestos Bulk Analysis	PLM EPA 600/R93/116
Grab or Composite	Grab
Date	January 19, 2022
Time	11:45

Sample Location Photo

Material Information

Sampled or Assumed?	Sampled
Material Acronym	TC ► 1
Material Description	Black shiny tar coating on inside of culvert
Material Color	Black

Representative Photos



Yes
Entirety of culvert





LAB & SAMPLE SUBMISSION INFO

Signature

lem

Signed 1/19/2022, 11:46:05 AM EST

Asbestos Bulk Samples

Remarks to be added to the CoC	
Asbestos samples submitted to TRC lab?	Yes
Date Submitted to Lab	January 19, 2022
Asbestos bulk sample CoC data electronically sent to lab yet?	Yes
Asbestos bulk sample results reviewed?	No

REPORT CREATION

Select one or more documents below to be generated. Once completed in the cloud, they will be sent to the listed email address.	
NOTE: Asbestos bulk sample CoC data must now be sent electronically to the lab by selecting "Asbestos chain-of-custody - Send to Lab" from the list below.	
What documents should be generated?	Asbestos chain-of-custody - Send to Lab
Generate Documents	

PROJECT STATUS TRACKING

Has this survey been completed?	Yes
Has the report been written?	No
Has the report been reviewed?	No



WinBSI HBM Survey

ConnDOT, Bridge/Culvert #02713

6/2/2022, 9:38:54 AM EDT

CREATED

④ 1/19/2022, 11:46:12 AM EST

by Alan Fortin

UPDATED

④ 6/2/2022, 9:38:54 AM EDT

Stephen Arienti

STATUS

Complete

ASSIGNED TO

No Assignment







JOB INFORMATION

Site Name	Bridge/Culvert #02713
Address	
TRC Project Number	279951.6541.0710
Project Manager	Erik Plimpton, Stephen Arienti
Inspector(s)	Alan Fortin
Client	ConnDOT
Type of Asbestos Survey	Reno/Demo
Site Sketch Diagrams	
Additional Analysis for NOB Materials (Calc)	TEM NY NOB 198.4
PLM Turnaround Time (TAT)	
TEM Turnaround Time (TAT)	3-day
Date	January 19, 2022
General Notes	No guano or caulking present. Rusting throughout culvert pipe. No paint present. Rubber impact dampeners on guardrails. No tar on inside of flashing.







Overview Photo





W side guardrail - Approximately 60 bilateral guardrail posts total for culvert between E and W sides of road

AT AT A VESTIMATING







Options & Other Settings Use auto-numbering? No Auto-fill gaps? Yes Alert user about missing site sketch? Yes

SURVEYS PERFORMED

Asbestos

Asbestos Survey

Materials & Samples (1 Item)

Materials & Samples - 1. (2) Samples #01–02: TC1–Black shiny tar coating on inside of culvert

Sample Information

Asbestos Samples (2 Items)

Asbestos Samples - 1. Sample #01: TC1...West side (inlet)

Sample Number	01
Sample Location	West side (inlet)
Asbestos Bulk Analysis	PLM EPA 600/R93/116
Grab or Composite	Grab
Date	January 19, 2022
Time	14:21







Sample Location Photo



Asbestos Samples - 2. Sample #02: TC1...East side (outlet)

Sample Number	02
Sample Location	East side (outlet)
Asbestos Bulk Analysis	PLM EPA 600/R93/116
Grab or Composite	Grab
Date	January 19, 2022
Time	14:22







Sample Location Photo



Material Information

Sampled or Assumed?	Sampled
Material Acronym	TC ► 1
Material Description	Black shiny tar coating on inside of culvert
Material Color	Black







Representative Photos



Analyze by layer?	No
Is material non-friable organically bound (NOB)?	Yes
Homogeneous Area	
Total Approximate Quantity	
Notes	

LAB & SAMPLE SUBMISSION INFO

Signature

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Signed 1/19/2022, 2:44:06 PM EST

Asbestos Bulk Samples

Remarks to be added to the CoC		
Asbestos samples submitted to TRC lab?	Yes	
Date Submitted to Lab	January 19, 2022	
Asbestos bulk sample CoC data electronically sent to lab yet?	Yes	
Asbestos bulk sample results reviewed?	No	





REPORT CREATION	
Select one or more documents below to be generated. Once completed in the cloud, they will be sent to the listed email address.	
NOTE: Asbestos bulk sample CoC data must now be sent electronically to the lab by selecting "Asbestos chain-of-custody - Send to Lab" from the list below.	
What documents should be generated?	Asbestos chain-of-custody - Send to Lab
Generate Documents	

PROJECT STATUS TRACKING

Has this survey been completed?	Yes
Has the report been written?	No
Has the report been reviewed?	No









