

October 18, 2023

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: Mike Bedson P.E./Emily Anness, P.E.

Subject: On-Call Asbestos, Lead, Air Quality & Demolition Compliance

Agreement No. 8.07-01 (18)

HazMat Inspection – Rehabilitation of Bridge No. 06772, Route 63 (New Haven

Rd) over Straitsville Brook, Naugatuck, CT ConnDOT Assignment No. 519-7702 ConnDOT Project No. 87-148

TRC Project No. 289951.7702.0710

Dear Mr. Coite:

TRC performed a limited hazardous materials site investigation associated with the rehabilitation of Bridge No. 06772, Route 63 (New Haven Rd) over Straitsville Brook in Naugatuck, Connecticut. No painted surfaces were identified at Bridge No. 06772; therefore, no lead paint was identified. Suspect asbestos black asphalt tar coating on the ACCMP and a grey grout material were sampled and found to contain no detectable amounts of asbestos. No other hazmat/regulated items were identified at Bridge No. 06772.

Laboratory results, TRC Mobile Data Solutions report and project description/site map are attached.

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

Very Truly Yours,

TRC

Stephen R. Arienti, CHMM

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2 Kain

Senior Project Manager – Engineer in Charge

Erik R. Plimpton, P.E., CHMM, CMC

Vice President – Engineer in Charge

Industrial Hygiene Laboratory 21 Griffin Road North Windsor, CT 06095 (860) 298-6308



CLIENT: CT Department of Transportation Lab Log #: 0062674

> Project #: 289951.7702.0710

Date Received: 09/01/2023 Date Analyzed: 09/05/2023

Site: Culvert 06772, Route 63 over Straitsville Brook, Naugatuck, CT

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

Sample No.	Sample Location	Homogeneous Material Description	Other Matrix Materials	Asbestos %	Asbestos Type
01	North side of culvert	Grey GR1 - grout		ND	None
02	North side of culvert	Grey GR1 - grout		ND	None
03	Inner side of metal culvert tunnel	Black T1 - tar coating		ND	None
04	Outer side of metal culvert tunnel	Black T1 - tar coating		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, 2024. TRC is accredited by the AIHA Laboratory Accreditation Programs (AIHA-LAP), LLC in the Industrial Hygiene Program (IHLAP) for PLM effective through October 1, 2024. 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, as received by the laboratory.

Reviewed by: Analyzed by: **Date Issued** Joel Corso, Laboratory Analyst Kathleen Williamson, Laboratory Manager 09/05/2023

21 GRIFFIN ROAD NORTH
WINDSOR, CONNECTICUT 06095
TELEPHONE (860) 298-9692
FAX (860) 298-6380

ASBESTOS BULK SAMPLING

CHAIN OF CUSTODY

Edition: October 2009 Supersede Previous Edition

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	PROJECT NAME	ConnDOT — Culvert 06772	Route 63 over Straitsville Brook	Naugatuck, CT	INSPECTOR	Chris Rekofsky, Zac Smith		SAMPLE LOCATION		North side of culvert	North side of onliver	_	Inner side of metal culvert tunnel		Outer side of frietal curvert tunnel
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	TOTONT		289951.7702.0710		SIGNATURE		_	FIELD SAMPLE NUMBER	;	0.1	02	5	0.3	04	
									_		_	_	_	_	_

Received by: (Signature)	(Printed)	Page 1 of 1
Date:	Time:	No No
Relinquished by: (Signature)	(Printed)	Condition of Samples: Acceptable: Yes Comments:
Received by: (Signature) 9//23	(Printed) //50 (
Date: 9/1/25	11me: 1/25	
Relinquished by: (Signature)	Colony Soft. Remarks:	

Aerobiology Laboratory Associates, Inc.

22 Cummings Park, Woburn, MA 01801 Ph. 781-935-3212 Fax 781-932-4857 TEM Bulk Chain of Custody Record

Date: 09/05/2023

PO#: C289951 Analysis Type: Chatfield EPA N.O.B Qualitative

Client: TRC

Client Job#: 289951.7702.0710

Client Job Ref./Loc.: CT DOT - Culvert 06772, Route 63 over Straitsville Brook, Naugatuck, CT

Relinquished by: J. Corso

Received by:

Report to: <u>SArienti@trccompanies.com</u>, <u>EPlimpton@trccompanies.com</u>, <u>DCarillo@trccompanies.com</u>, <u>KGraff@trccompanies.com</u>

Samplers Name: C. Rekofsky & Z. Smith

Turnaround Time: <12 Hour <24 Hour <48 Hour <3 Day 5 Day Other:

								For Lab	Use Only
Client ID#	Lab	ID#	Descripti	on	Lo	cation	Acceptab on Recei	ole pt	Comments
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					1				
For Lab Use Only	# Spies	Total	Client #	Batch #	‡	Results	Reported	Comments	

A Pace Analytical® Laboratory

Steve Arienti
TRC Companies, Inc. (CT)
21 Griffin Road North
Windsor, CT 06095

September 11, 2023

Dear Steve Arienti,

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.

Aimee Cormier, Laboratory Manager

inu L'annier

Enclosure:

BATCH NUMBER: NT 20090 CLIENT PROJECT ID: 289951.7702.0710 Client Ref: CT DOT - Culvert 06772, Route 63 over Straitsville Brook, Naugatuck, CT CT ID# PH-0209; MA ID# AA000251; ME ID# LB-055; ME ID# LA-056; VT ID# AL254362; RI ID# TEM 00150.

Aerobiology Laboratory Associates, In

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

Laboratory Report

Client Project #:

289951.7702.0710

Client Reference:

CT DOT - Culvert 06772, Route 63 over Straitsville Brook, Naugatuck, CT

PO#:

C289951

Client #:

297

Client Name:

TRC Companies, Inc. (CT)

Batch:

NT 20090 NOB

Method:

9/6/2023

Date Received:
Date Analyzed:

9/6/2023 9/11/2023

Date of Report:

9/11/2023

	Barriella	Color	Initial		%	Asbest	tos Type	s		% Other	%	%	Total %	Analyzed /	Prepped
LAB ID Field I	D Description:	Color	Weight	CHR	AMO	ACT	CRO	ANT	TRE	Non-asb.	Organic	Carb. Asbesto		Charged / Charge	
NT149292 03	Black Tar Coating		.1482	.00	.00	.00	.00	.00	.00	31.24	67.61	1.15	ND	Yes	No

Comments:

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

Aimee Cormier, Analys

Aerobiology Laboratory Associates, Inc.

22 Cummings Park, Woburn, MA 01801 Ph. 781-935-3212 Fax 781-932-4857 TEM Bulk Chain of Custody Record

Date: 09/05/2023

PO#:

C289951

Analysis Type: Chatfield

EPA N.O.B Qualitative

Client:

TRC

Client Job#:

289951.7702.0710

Client Job Ref./Loc.: CT DOT - Culvert 06772, Route 63 over Straitsville Brook, Naugatuck, CT

Relinquished by:

J. Corso

Doven Jameser 9.6.25 11:00

Received by: Report to:

SArienti@trccompanies.com, EPlimpton@trccompanies.com, DCarillo@trccompanies.com, KGraff@trccompanies.com

Samplers Name:

C. Rekofsky & Z. Smith

Turnaround Time:

<12 Hour

<24 Hour

<48 Hour

<3 Day

5 Day

Other:

							For Lab Use Only
Client ID #	Lab	ID#	Descripti	on	Location	Acceptab on Recei	cle Comments
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1 1 11 0 1	// G :	T-4-1	Cliant#	Batch #	Dogulto	s Reported	Comments
or Lab Use Only	# Spies	Total	Client #	Batch #	Results	Reported	Comments



TRC

21 GRIFFIN ROAD NORTH WINDSOR, CONNECTICUT 06095 TELEPHONE (860) 298-9692 FAX (860) 298-6380

ASBESTOS BULK SAMPLING CHAIN OF CUSTODY

Edition: October 2009 Supersede Previous Edition

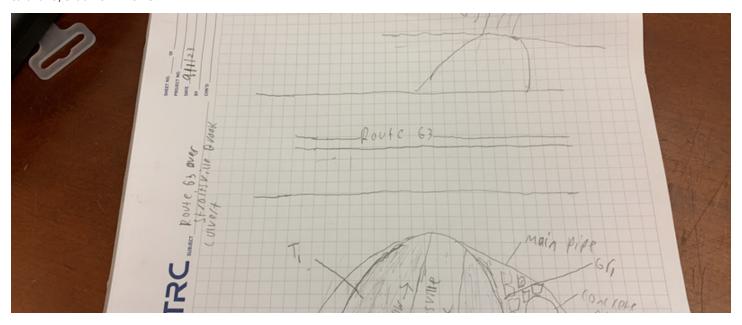
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FIELD SAMPLE NUMBER	DATE	TIME	COMP	GRAB	SAMPLE LOCATION	PLM EPA 6 (POSITIV	PLM EPA 600 (w/ gravimetric (POSITIVE	ANALYZE I	POINT ((IF>1% &	TEM NY NOB 1 (IF PLM SERIES				MA	TER	IAL			
01	9/1/2023	09:46		X	North side of culvert	X					GR1 - Grey grout associated with stone retaining wal					wall			
02	9/1/2023	09:46		X	North side of culvert	X					GR1 - Grey grout associated with stone retaining				wall				
03	9/1/2023	09:41		X	Inner side of metal culvert tunnel X X T1 - Black tar coating														
04	9/1/2023	09:41		X	Outer side of metal culvert tunnel														

Relinquished by: (Signature)	Date: 9/1/23	Received by: (Signature)	9/1/23	Relinquished l	by: (Signature)	Date:	Received by: (Signature)
(Printed) Zachary South	Time:	(Printed)	1150	(Printed)		Time:	(Printed)
Remarks:					Condition of Samples:No Acceptable: YesNo Comments:)	Page 1 of 1

BSI - WinBSI HBM Survey

ConnDOT, Culvert 06772 Route 63 over Straitsville Brook Naugatuck, 1183 New Haven Rd Naugatuck CT 06770

9/1/2023, 3:06:23 PM UTC



CREATED

- ④ 9/1/2023, 1:19:38 PM UTC
- by Christopher Rekofsky

UPDATED

- ④ 9/1/2023, 3:06:23 PM UTC
- by Zachary Smith

STATUS

Complete

ASSIGNED TO

No Assignment

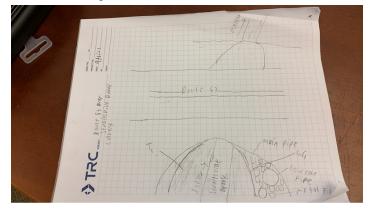




JOB INFORMATION

Site Name	Culvert 06772 Route 63 over Straitsville Brook Naugatuck
Address	1183 New Haven Rd Naugatuck CT 06770
TRC Project Number	289951.7702.0710
Project Manager	Erik Plimpton, Stephen Arienti
Inspector(s)	Chris Rekofsky, Zac Smith
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)	3-day
TEM Turnaround Time (TAT)	3-day
Date	September 1, 2023
General Notes	





Overview Photo







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 (2 Items)

Materials & Samples - 1. (2) Samples #01-02: GR1-Grey grout associated with stone retaining wall





Sample Information

Asbestos Samples (2 Items)

Asbestos Samples - 1. Sample #01: GR1...North side of culvert

Sample Number	01
Sample Location	North side of culvert
Asbestos Bulk Analysis	PLM EPA 600/R93/116
Grab or Composite	Grab
Date	September 1, 2023
Time	09:46

Sample Location Photo

Asbestos Samples - 2. Sample #02: GR1...North side of culvert

Sample Number	02
Sample Location	North side of culvert
Asbestos Bulk Analysis	PLM EPA 600/R93/116
Grab or Composite	Grab
Date	September 1, 2023
Time	09:46

Sample Location Photo

Material Information

Sampled or Assumed?	Sampled
Material Acronym	GR ▶ 1
Material Description	Grey grout associated with stone retaining wall
Material Color	Grey





Representative Photos



Analyze by layer?	No
Is material non-friable organically bound (NOB)?	No
Homogeneous Area	Retaining wall north side of culvert
Total Approximate Quantity	
Notes	

Materials & Samples - 2. (2) Samples #03-04: T1-Black tar coating

Sample Information

Asbestos Samples (2 Items)

Asbestos Samples - 1. Sample #03: T1...Inner side of metal culvert tunnel

Sample Number	03
Sample Location	Inner side of metal culvert tunnel
Asbestos Bulk Analysis	PLM EPA 600/R93/116
Grab or Composite	Grab
Date	September 1, 2023
Time	09:41

Sample Location Photo

Asbestos Samples - 2. Sample #04: T1...Outer side of metal culvert tunnel





Sample Number	04
Sample Location	Outer side of metal culvert tunnel
Asbestos Bulk Analysis	PLM EPA 600/R93/116
Grab or Composite	Grab
Date	September 1, 2023
Time	09:41

Material Information

Sample Location Photo

Sampled or Assumed?	Sampled
Material Acronym	T1
Material Description	Black tar coating
Material Color	Black

Representative Photos



Analyze by layer?	No
Is material non-friable organically bound (NOB)?	Yes
Homogeneous Area	Inner and outer sides of corrugated metal culvert tunnel





Total Approximate Quantity	
Notes	

LAB & SAMPLE SUBMISSION INFO

Signature

Asbestos Bulk Samples

Remarks to be added to the CoC

Asbestos samples submitted to TRC | No |
lab?

Date Submitted to Lab

Asbestos bulk sample CoC data electronically sent to lab yet?

Asbestos bulk sample results | No |
reviewed?

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

Generate Documents

PROJECT STATUS TRACKING

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





Project Description

State Project No. 0087-0148

Rehabilitation of Bridge No. 06772

On Route 63 over Straitsville Brook

In the Town of Naugatuck

Project Location: The proposed rehabilitation of Bridge No. 06772 is located along Route 63 in the

Town of Naugatuck east of Candee Road.

Project Description: Bridge No. 06772 is a 10 foot span ACCMP Arch culvert over Straitsville Brook that carries New Haven Road (Route 63). A 2019 Bridge Inspection Report (BIR) notes the existing

bridge is buried under approximately two feet of ballast. The overall length of the culvert is 75 feet, with

a retaining wall extending northeast from the inlet. There is a dam located approximately 2000 feet north

on Candee Road that serves Straitsville Brook. The latest BIR states the steel is in poor condition (rating

4) and the retaining wall & cutoff wall is in fair condition (rating 5). There is scour noted at the inlet

rated a 6. The ADT is listed at 11100.

The existing bridge is proposed to be rehabilitated with a 55" x 73" pipe arch relining. Precast concrete

wingwalls will be constructed at both the inlet and outlet to provide stabilization of eroded slopes.

Permits: TBD.

Rights of Way: Temporary construction easements will be required. Permanent easements may be

required at the outlet for the retaining walls.

Utilities: Overhead electrical utilities run along the north side of Route 63, crossing the roadway on the

east side of the bridge, and support lines crossing the roadway on the west side of the bridge. Temporary

de-energization and/or temporary relocation are anticipated.

One underground raw water main, one distribution water main and a gas main run perpendicular to the

culvert within the roadway limits. The gas main passes over the outlet of the structure just outside the

edge of road. Both water mains pass under the inlet of the structure.

Maintenance and Protection of Traffic: TBD.

Safety-Related Issues: TBD.

Schedule:

FDP: 6/28/23

ADV: 9/6/23

Anticipated Construction Start: Summer 2024

