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January 27, 2020

Mr. Adam Fox, P.E.
Principal Engineer
Environmental Compliance Section
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. / Mandy Socolosky

Subject: On-Call Asbestos, Lead, Air Quality & Demolition Compliance
Agreement No.: 8.07-01 (18)
HazMat Inspection - Bridge Nos. 03178 & 03179 (Site Nos. 3 & 4), Route 8 SB & NB over
Metro North Railroad, Waterbury, CT
ConnDOT Assignment No. 519-6079
ConnDOT Project No. 151-334
TRC Project No. 289951.6079.0710

Dear Mr. Fox:

TRC performed a limited survey for hazardous building materials associated with the rehabilitations of Bridge Nos. 03178 & 03179 (Site Nos. 3 & 4), Route 8 SB & NB over Metro North Railroad in Waterbury, Connecticut. Lead paint is presumed present on the painted bridge surfaces of Bridge No. 03178 & 03179. Any painted non-metallic debris and/or paint waste to be generated is presumed as RCRA/CT DEEP hazardous waste. Brittle white caulking between the metal railing supports and parapets walls at Bridge Nos. 03178 & 03179 was identified and found to be homogeneous to the ACM caulking at Site Nos. 1 & 2 (Bridge Nos. 03176 & 03177). Other suspect caulking & bridge tars associated with the bridges were sampled and found to be non-detect for asbestos. Universal Waste/Connecticut Regulated Waste in the forms of fluorescent/mercury vapor/halogen bulbs with ballasts in the light poles were identified on the topside of Bridge Nos. 03178 & 03179, however, they will not be impacted by the project. Bird/pigeon guano accumulations were identified on the beams/abutment/piers in accessible areas of the bridges. No bloodborne pathogens (BBP) concerns were identified. Associated laboratory data, TRC Mobile Data Solutions report and project site map are attached.

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

Very Truly Yours,

TRC

Reviewed By

Stephen R. Arienti, CHMM
Senior Project Scientist – Program Manager

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



BULK ASBESTOS ANALYSIS REPORT

CLIENT: CT Department of Transportation

Lab Log #: 0054375
 Project #: 289951.6079.0710
 Date Received: 10/21/2019
 Date Analyzed: 10/22/2019

Site: Bridges #03178 & 03179, Route 8, Waterbury, CT

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

Sample No.	Color	Homogenous	Multi-Layered	Layer No.	Other Matrix Materials	Asbestos %	Asbestos Type
1	Black (caulk)	Yes	No	--	---	ND	None
2	Black (caulk)	Yes	No	--	---	ND	None
3	Black (caulking)	Yes	No	--	---	ND	None
4	Black (caulking)	Yes	No	--	---	ND	None
5	Black (tar)	Yes	No	--	---	ND	None
6	Black (tar)	Yes	No	--	---	ND	None

Reporting limit- asbestos present at 1%
 ND - asbestos was not detected
 Trace - asbestos was observed at level of less than 1%
 NA/PS - Not Analyzed / Positive Stop
 SNA- Sample Not Analyzed- See Chain of Custody for details

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, 2020. TRC is accredited by the AIHA Laboratory Accreditation Programs (AIHA-LAP), LLC in the Industrial Hygiene Program (IHLAP) for PLM effective through October 1, 2020. 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: K. Williamson Reviewed by: Cathryn Lemire Date Issued: 10/22/2019
 Kathleen Williamson, Laboratory Manager Cathryn Lemire, Approved Signatory

TRC LABORATORY ASBESTOS ANALYTICAL ACCREDITATIONS

NVLAP Lab Code 101424-0 AIHA-LAP, LLC #100122 CT #PH-0426 ME LA-0075, LB-0071 MA #AA000052 NY #10980 WV #000622
 RI #PLM0007 TX #300354 VT #AL910359 LA#05011 VA #3333 000283 AZ #A20944 HI #L-09-004 NJ #CT004 CA #2907
 CO# AL-15020 PHIL# 461 PA#68-03387

ProScience Analytical Services, Inc.

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

Laboratory

Client Project #: 289951.6079.0710
 Client Reference: CT DOT - Bridge 03171 & 03179, Route 8, Waterbury, CT
 PO #: C289951
 Client #: 297
 Client Name: TRC Companies, Inc. (CT)

Batch: 3
 Method: .JB
 Date Received: 10/28/2019
 Date Analyzed: 10/28/2019
 Date of Report: 10/28/2019

LAB ID	Field ID	Description:	Color	Initial Weight	% Asbestos Types						% Other Non-asp.	% Carb.	Total % Asbestos	Analyzed / Charged	Preped / Charged
					CHR	AMO	ACT	CRO	ANT	TRE					
NT135782	1	Black Sidewalk Caulk		.9428	.00	.00	.00	.00	.00	.00	.00	27.99	Yes	No	
NT135783	3	Black, Rubbery, Pipe Insulation/Caulking		.2455	.00	.00	.00	.00	.00	.00	.00	52.51	Yes	No	
NT135784	5	Black, Hard Tar		1.0401	.00	.00	.00	.00	.00	.00	.00	28.94	Yes	No	

Comments:

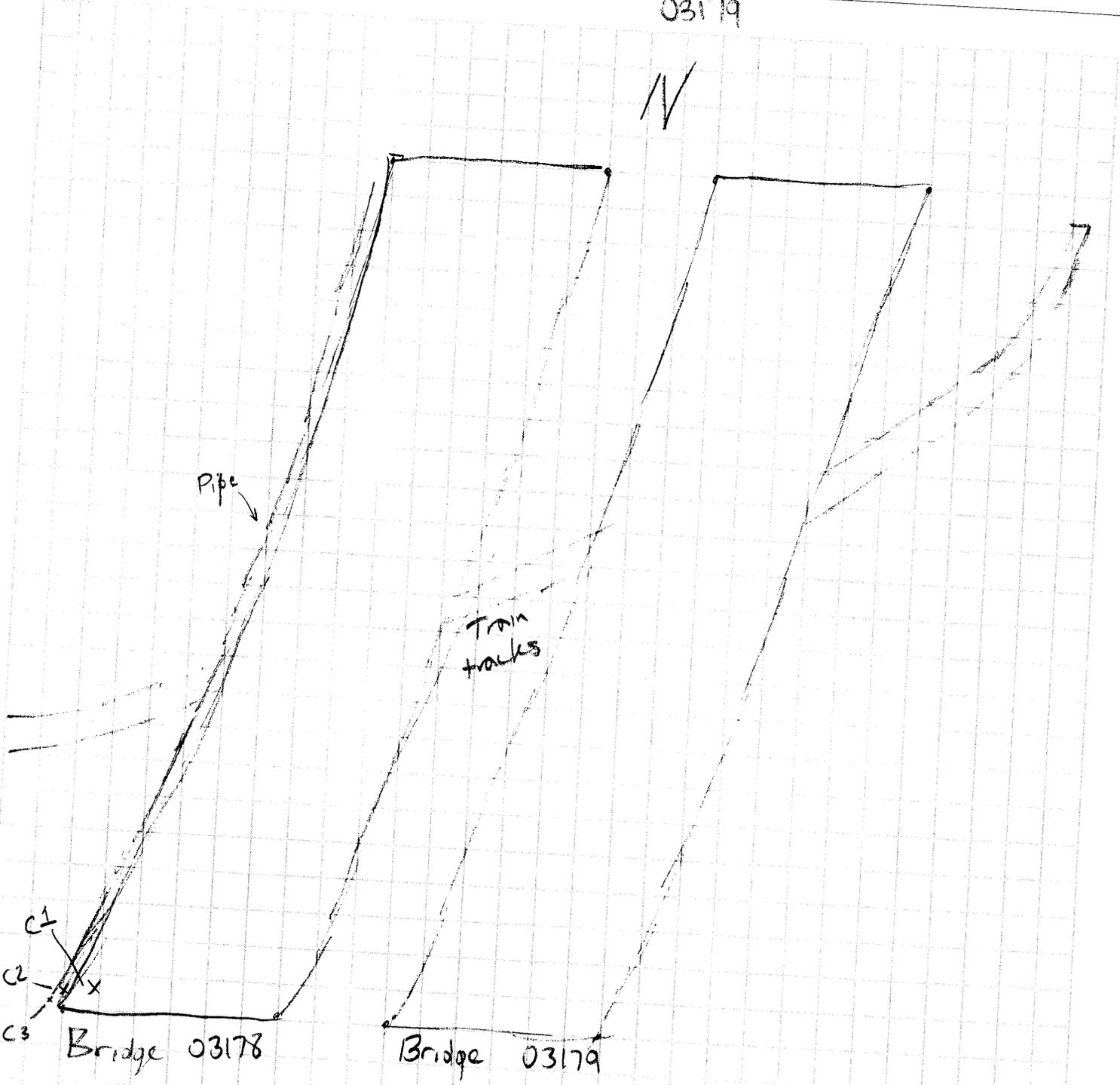
Key: CHR = Chrysotile AMO = Amosite CRO = Crocidolite ACT = Actinolite TRE = Tremolite ANT = Anthophyllite TR = Trace = < 1% ND = None Detected

Geneva L. Cameron for
 Mark Derosier, Analyst



SHEET NO. 1 OF _____
PROJECT NO. 289051.607A
DATE 10/21/19
BY Nick Selio
CHK'D _____

SUBJECT Bridge # 03178 & 03179



ConnDOT, Bridges #03178 & #03179, , Waterbury, , CT, US, Route 8,

Created	2019-10-21 12:39:29 UTC by Nicholas Selvo
Updated	2019-10-21 17:54:19 UTC by Nicholas Selvo
Location	41.7284856923313, -72.7567391563884
Status	■ Survey Complete

Job Information

Site Name	Bridges #03178 & #03179
Address	Route 8 Waterbury, CT
TRC Project Number	289951.6079
Project Manager	Erik Plimpton, Stephen Arienti
Inspector(s)	Nick Selvo, Tyler Noll
Client	ConnDOT
Type of Asbestos Survey	Reno/Demo
Additional Analysis for NOB Materials (Calc)	TEM NY NOB 198.4
PLM Turnaround Time (TAT)	3-day
TEM Turnaround Time (TAT)	3-day
Date	2019-10-21
General Notes	Underside of Both bridges was inaccessible. Route 8 north has no shoulder, route 8 south has large drop to ground from wall. North is bridge #03179 and south is bridge #03178

Overview Photo



Inaccessible bridge from route 8 north



BSI Daily Job Safety Assessment Briefing

Potential Hazards Associated with the Job/Task							
Environmental	Slip/Trip/Fall	Chemical	Electrical	Mechanical	Ergonomic	Struck By/Against	Weather
<input checked="" type="checkbox"/> Asbestos/Lead <input type="checkbox"/> PCB/Mercury <input type="checkbox"/> Dust/Silica <input type="checkbox"/> BGP <input type="checkbox"/> Mold/Moisture <input type="checkbox"/> Insects/Animals <input type="checkbox"/> Noise/Lighting <input type="checkbox"/> Radiation	<input checked="" type="checkbox"/> Falls from height <input type="checkbox"/> Slippery Surfaces <input type="checkbox"/> Tripping Surfaces <input type="checkbox"/> Excavations/Holes <input type="checkbox"/> Stairs/Ladders <input checked="" type="checkbox"/> Uneven Ground <input type="checkbox"/> Poor Terrain <input type="checkbox"/> Housekeeping	<input type="checkbox"/> Toxic <input type="checkbox"/> Flammable <input type="checkbox"/> Corrosive <input type="checkbox"/> Skin Absorb	<input type="checkbox"/> Shock <input type="checkbox"/> Short Circuit <input type="checkbox"/> Static <input type="checkbox"/> Fire <input type="checkbox"/> Utility Strike <input type="checkbox"/> LOTO	<input type="checkbox"/> Eject Failure <input type="checkbox"/> Moving Parts <input type="checkbox"/> Rotating Parts <input type="checkbox"/> Heavy Lift Op <input type="checkbox"/> Crushing <input type="checkbox"/> Crane/Rigging <input type="checkbox"/> Aerial Lifts <input checked="" type="checkbox"/> Driving	<input type="checkbox"/> Repetitive Motion <input type="checkbox"/> Vibration <input type="checkbox"/> Lifting/Pulling <input type="checkbox"/> Access/Egress <input type="checkbox"/> Confined Space <input checked="" type="checkbox"/> Tool Use	<input checked="" type="checkbox"/> Vehicles <input type="checkbox"/> Trains <input type="checkbox"/> Projectiles <input type="checkbox"/> Falling Objects	<input type="checkbox"/> Snow/Ice <input type="checkbox"/> Rain <input type="checkbox"/> Sun <input type="checkbox"/> Heat <input type="checkbox"/> Humidity <input type="checkbox"/> Wind <input type="checkbox"/> Cold
List hazards associated with this task		Engineering controls/work practices to eliminate/control hazards?			Post Task Safety Analysis		
Driving to/from job site <i>Boston Hwy</i>		No cell use/hands free/first move fwd <i>Be vigilant, watching when you stop</i>			Did any injuries/incidents/near misses occur today? If yes, explain. <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
<i>Bus arrivals</i> <i>Traffic</i> <i>Walking on highway</i>		<i>Keeping alert for moment</i> <i>H. vs. west</i> <i>Walking away from traffic</i> <i>as far from road as possible</i>			Was injury/incident reported to Supervisor, Corp Safety Dept (Intalex) & WorkCare within 24 hrs? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A		
					What problems did you have with today's work assignment? <i>Tough to access bridges</i>		
					What can we do tomorrow to improve performance?		
Names/Signatures of Crew Members Present							
<i>Nick Salvo</i>				<i>Tyler McMill</i>			
Supervisor Signature:		Date:		Were any Safety Observations/Safe Catches/Near Miss reports submitted today? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			

BSI Daily Job Safety Assessment Briefing

Project Name: *Bridges # 03119, 03119, 03116, 03117* Project Number: *28991-6279, 6094*

Work Location: *Route 1, Waterbury, CT* Date: *10/21/2019* PM

Tasks Performed: *Asbestos, XRF, Hazardous* Survey Time: *4:15* (AM) (PM)

Client Name: *GenDOT* JSA Completed By: *Nick Salvo*

HASP Available: Yes No

Emergency/Facility(s): *Waterbury Hospital* Emergency Evacuation/Refuge Point Location: *Car*

Physical Address: *14 Robbins St, Waterbury CT 06208* Number(s): *(203) 573-6000*

First Aid/CPR Staff: *Nick Salvo*

For Emergencies Dial 911 - For Non-Emergencies Dial Supervisor First Then WorkCare (888) 449-7787

Personal Protective Equipment Required	Yes	No	Additional Considerations
Head Protection	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Work Procedures
Eye Protection	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/> Utility clearance (OH & CBVD) <input type="checkbox"/> Decon
Respiratory Protection	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> Vehicle maintenance <input type="checkbox"/> SDS <input type="checkbox"/> First aid kit
Hand Protection	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/> Discuss potential exposure to hazards & controls
Foot Protection	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/> People <input type="checkbox"/> Worker fatigue <input type="checkbox"/> Other work groups
Fall Protection	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> Spill/leak safety <input type="checkbox"/> Pedestrian control <input type="checkbox"/> Decontamination
Electrical Protection	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/> Traffic/train control <input type="checkbox"/> Hotlines
Other PPE	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Tool/Equipment:
	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> Inspection of tools <input checked="" type="checkbox"/> Connect tools at correct use
	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/> Ladders <input type="checkbox"/> Lights <input checked="" type="checkbox"/> PPE <input type="checkbox"/> Distal Cinders
	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/> Pumps <input type="checkbox"/> Scope <input type="checkbox"/> OSHA 1020 Construction Safety
	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/> Specialized tool/equipment <input type="checkbox"/> Distal Cinders
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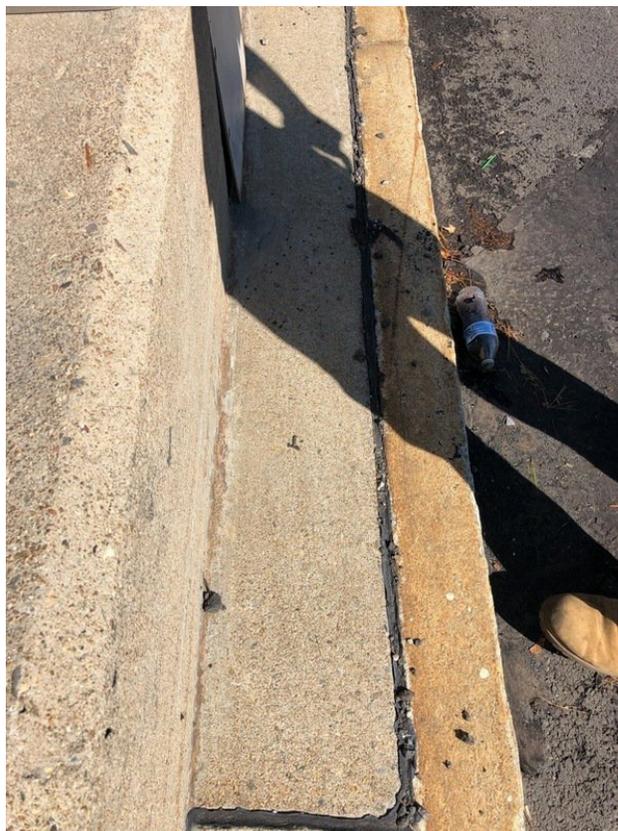
Representative Photos



Route 8 south

Sample Location	Route 8 south
Analyze by Layer	No
Asbestos Bulk Analysis	PLM EPA 600/R93/116
Grab or Composite	Grab
Date	2019-10-21
Time	11:22

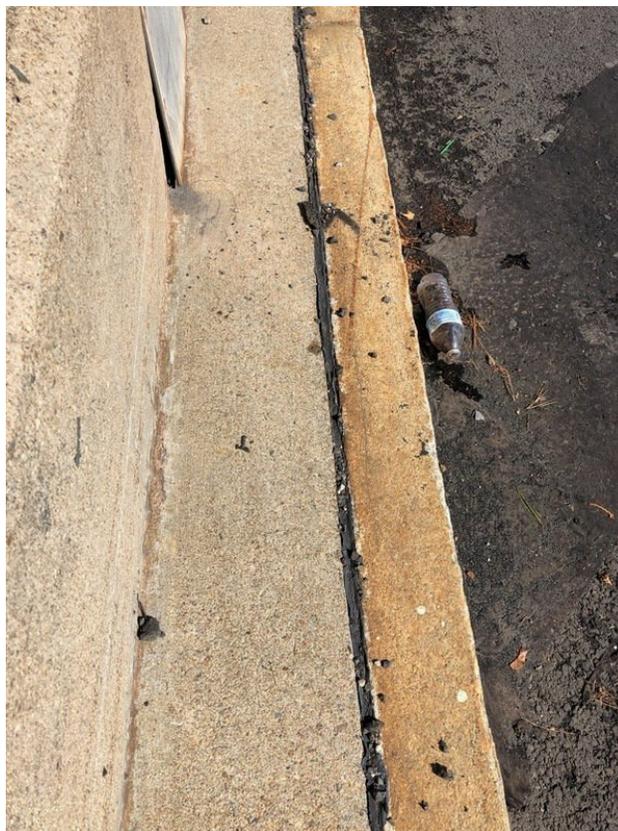
Sample Location Photo



Route 8 south

Sample Location	Route 8 south
Analyze by Layer	No
Asbestos Bulk Analysis	PLM EPA 600/R93/116
Grab or Composite	Grab
Date	2019-10-21
Time	11:22

Sample Location Photo



Material Information

Sampled or Assumed?	Sampled
Material Acronym	C, 1
Material Description	Black sidewalk caulk
Is Material a Non-Friable Organically Bound (NOB)	Yes
Homogeneous Area	Along sidewalk on both sides of both bridges
Total Count	(2)
Total Count (number only)	2

(2), C, 2, Black, hard tar, 2

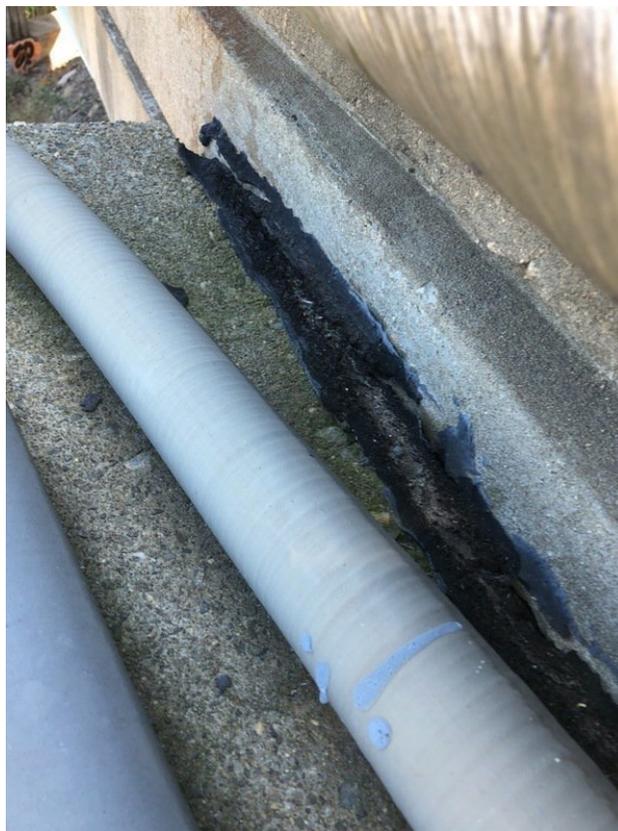
Representative Photos



Route 8 south

Sample Location	Route 8 south
Analyze by Layer	No
Asbestos Bulk Analysis	PLM EPA 600/R93/116
Grab or Composite	Grab
Date	2019-10-21
Time	11:27

Sample Location Photo



Route 8 south

Sample Location	Route 8 south
Analyze by Layer	No
Asbestos Bulk Analysis	PLM EPA 600/R93/116
Grab or Composite	Grab
Date	2019-10-21
Time	11:28

Sample Location Photo



Material Information

Sampled or Assumed?	Sampled
Material Acronym	C, 2
Material Description	Black, hard tar
Is Material a Non-Friable Organically Bound (NOB)	Yes
Homogeneous Area	Between bridge and wall on route 8 south. Possible on other sides of bridge
Total Approximate Quantity	10 LF
Total Count	(2)
Total Count (number only)	2

(2), C, 3, Black, rubbery pipe insulation/caulking, 2

Representative Photos



Route 8 south

Sample Location	Route 8 south
Asbestos Bulk Analysis	PLM EPA 600/R93/116
Grab or Composite	Grab
Date	2019-10-21
Time	11:29

Sample Location Photo



Route 8 south

Sample Location	Route 8 south
Analyze by Layer	No
Asbestos Bulk Analysis	PLM EPA 600/R93/116
Grab or Composite	Grab
Date	2019-10-21
Time	11:30

Sample Location Photo



Material Information

Sampled or Assumed?	Sampled
Material Acronym	C, 3
Material Description	Black, rubbery pipe insulation/caulking
Is Material a Non-Friable Organically Bound (NOB)	Yes
Homogeneous Area	Pipe on west side of bridge
Total Count	(2)
Total Count (number only)	2

XRF Section

XRF Survey Completed	N/A
XRF Data Downloaded	N/A
XRF Shots >1.0 on non-metallic building materials	No

HAZMAT Inventory Section

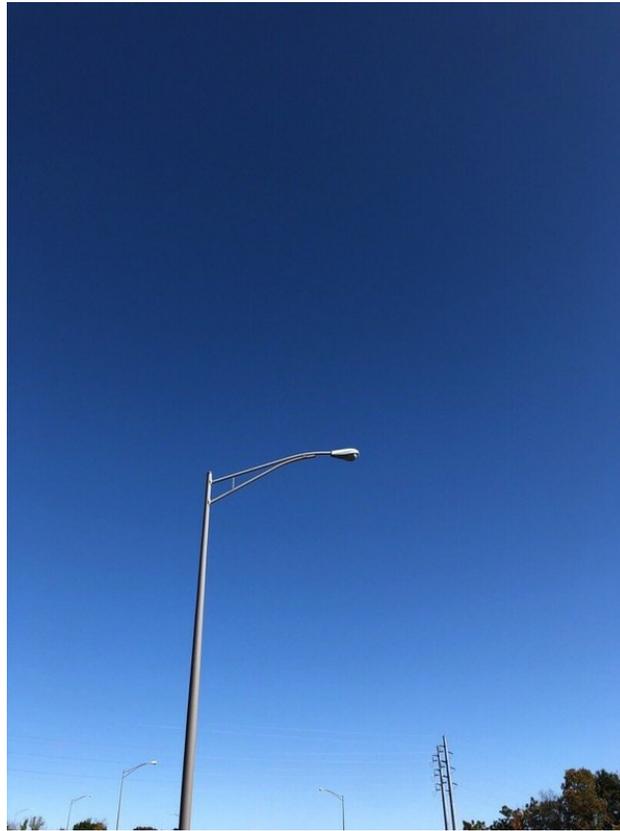
On top of bridge

Inventory Area Description	On top of bridge
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Universal Waste (UW), Fluorescent bulbs

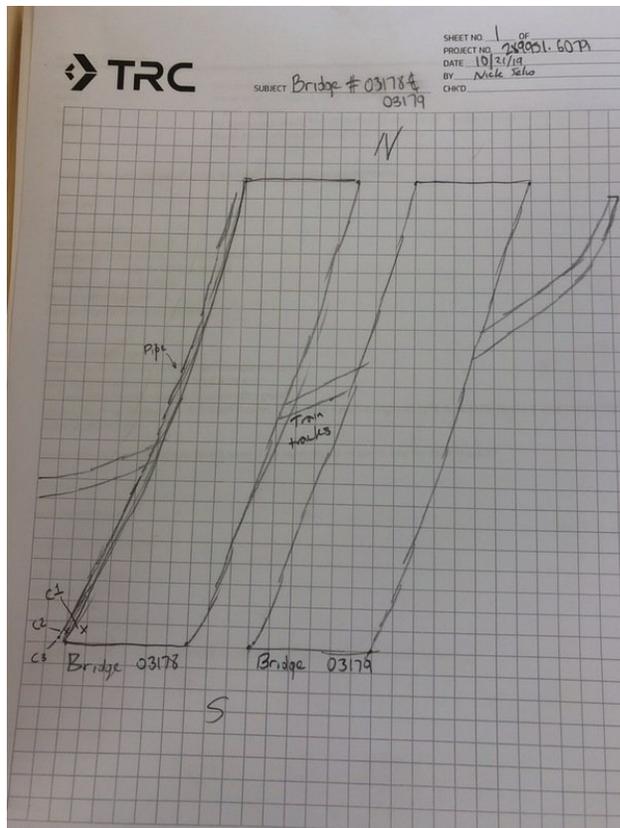
HAZMAT Item Description	Universal Waste (UW), Fluorescent bulbs
HAZMAT Item Common Name	Traffic lights
HAZMAT Item Quantity	9

HAZMAT Item Photo



General Information

Site Sketch Diagrams



Asbestos Samples Submitted to TRC Lab

Yes

Date Submitted to Lab	2019-10-21
App Name	WinBSI HBM Survey 1.0

Generate Report Documentation

Select one or more documents below to be generated. Once completed in the cloud, they will be sent to the listed email address. Please report any difficulties or errors to Justin Coleman.

What documents should be generated?	Asbestos chain-of-custody
Where should the document(s) be sent?	nselvo@trccompanies.com
Generate Documents	N/A

PROJECT DESCRIPTION

Project Number: 151-334

Bridge Numbers: 03178 & 03179

Town/City: Waterbury

Route 8 Southbound over Metro North RR (03178)

Route 8 Northbound over Metro North RR (03179)

Project Background

Bridge No. 03179 is currently in the preliminary engineering phase under the Connecticut Department of Transportation (ConnDOT) Bridge Program for structures requiring rehabilitation or replacement. ConnDOT initiatives have requested that neighboring bridge, Bridge No. 03178 also be screened for rehabilitative measures and included in Project 151-334.

Existing Conditions

Bridge No. 03179 was originally constructed in 1966 and carries three lanes of route 8 northbound over the metro north railroad in the City of Waterbury, CT. The bridge superstructure is comprised of an 8 inch thick reinforced concrete deck supported by six steel plate girders. The superstructure is supported by two reinforced concrete abutments, and four reinforced concrete piers. The bridge was also rehabilitated in 1996 as part of State Project No. 87-131 Route 8 Resurfacing and Safety Improvements. The entire superstructure was repainted as part of the rehabilitation project; however no structural steel repairs were completed. Other work consisted of replacing approach guiderail and attachments at the bridge. The roadway across Bridge No. 03179 has a functional classification of "Urban Principal Arterial – Other Expressway"; however due to full access control, design speed, and existing conditions, the roadway is considered an "Urban Freeway". Average Daily Traffic (ADT) on the bridge is approximately 27,350 vehicles with 8% truck.

As part of recent Department initiatives it has been requested that neighboring bridges within close proximity to the structure that initiated the project also be screened for rehabilitative measures. Accordingly, it has been determined that Bridge No. 03178 be added to Project No. 151-334 due to the close proximity to Bridge No. 03179. Similar to Bridge No. 03179, this structure was originally constructed in 1966. Bridge No. 03178 is a five span 695 ft. long structure and carries route 8 southbound over metro north railroad. It was also rehabilitated in 1996 as a part of State Project No. 87-131 Route 8 Resurfacing and Safety Improvements.

Purpose and Need Statement

The purpose of this project is to address items identified in recent inspections. Based on field inspections, engineering analysis, and review of ConnDOT's Bridge Inspection Reports, Bridge No. 03179 was found to be structurally deficient. The inspections noted the following concerns with the current state of Bridge No. 03179:

- Bearing plates show moderate to heavy rust
- The silicone expansion deck joints have tears up to 2 ft. long in the seal that has allowed water to leak onto the steel superstructure below.
- The asphaltic plug deck joints have adhesion cracks and cohesion cracks allowing water leakage onto the superstructure below.
- The welded steel plate girder superstructures is in poor condition. The fascia girders have areas of section loss at both their top and bottom flanges. Both fascia girders and interior girders have section loss at their webs.
- The rocker bearing at the north abutment is overly contracted.

- The pin and hanger has heavy laminated rust

According to a Routine Inspection conducted by CTDOT, Bridge No. 03178 is not considered to be structurally deficient; however based on the extent of the deterioration and proximity to Bridge No. 03179, repairs are warranted.

Proposed Project

The project is in the Preliminary Phase. The scope of work has stated the rehabilitation for Bridge Nos. 03178 and 03179 will likely consist of the following:

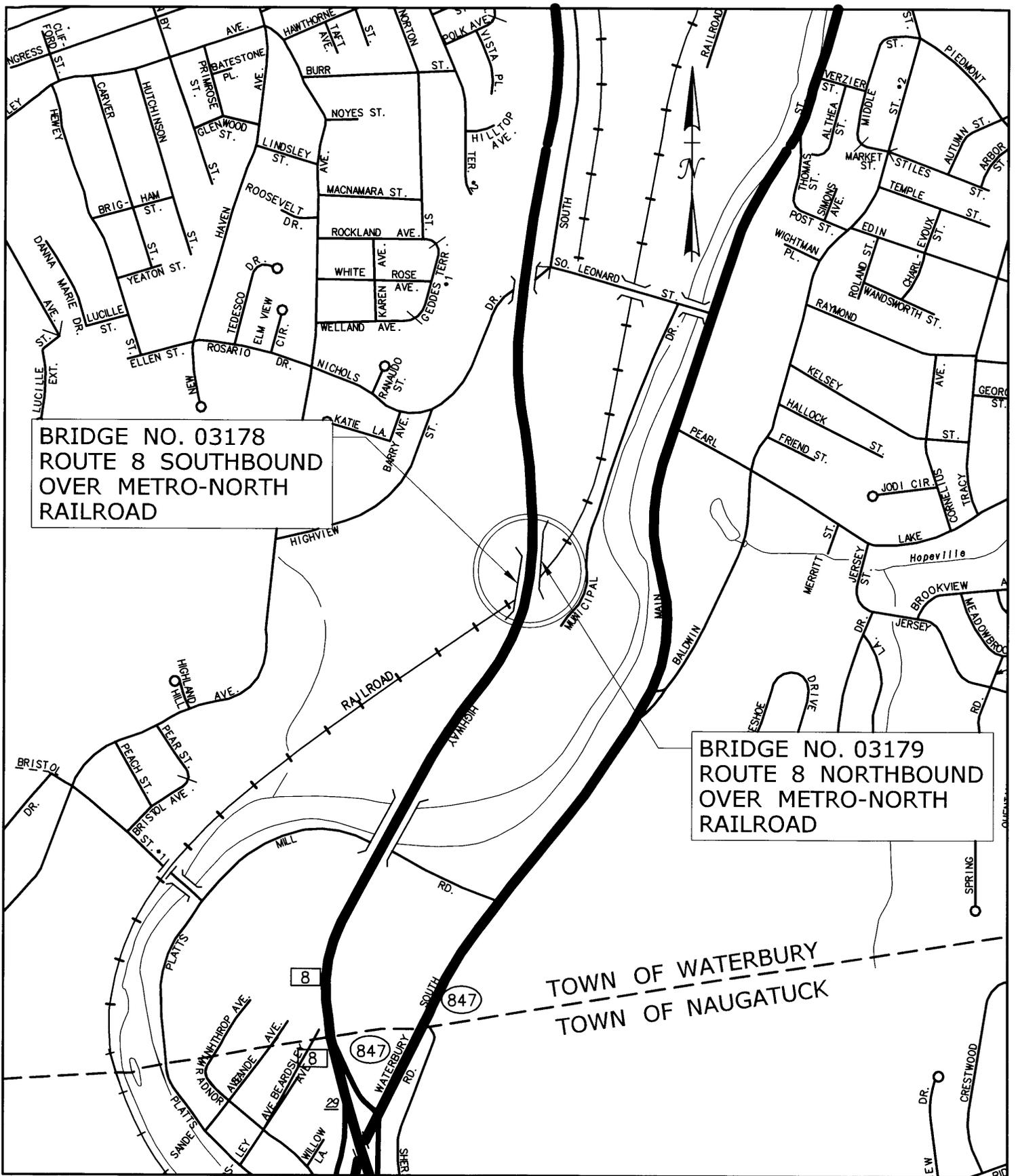
- Replace the silicone expansion deck joints and asphaltic plug deck joints
- Install a new spray applied waterproofing membrane and install a new overlay
- Patch the reinforced concrete deck, full and partial depth
- Repair and spot paint the steel superstructure
- Modify standard approach guide rail bridge attachment to align with curb line
- Remove wide concrete haunches over MNRR
- Replace existing hinge pins and plates with stainless steel
- Replace the existing rocker bearings and modify the pedestals
- Replace the existing sliding bearings with elastomeric bearings
- Clean and paint the fixed bearings
- Patch the reinforced concrete substructure
- Repair existing parapets

Cultural Resources

The project spans across the metro north railroad. Immediately to the east of the project are commercial properties. A Metropolitan District Commission wastewater treatment plant is located southeast of the bridge.

Environmental Resources

The Naugatuck River is located approximately 800ft east of this site. The bridge is not mapped within a Natural Diversity Database Area per June 2017 nor is it located in an aquifer protection area. Wetlands are not inferred to be present within this area due to the steep fill slopes along the highway and railroad corridor below but that is being verified by a wetland flagging crew.



BRIDGE NO. 03178
 ROUTE 8 SOUTHBOUND
 OVER METRO-NORTH
 RAILROAD

BRIDGE NO. 03179
 ROUTE 8 NORTHBOUND
 OVER METRO-NORTH
 RAILROAD

SCALE IN FEET



STATE PROJECT NO.:

151- 334

CITY/TOWN:

WATERBURY



STATE OF CONNECTICUT
 DEPARTMENT OF TRANSPORTATION



BRIDGE NO. 03178 AND 03179
 LOCATION MAP



CME
 CME ASSOCIATES, INC.
 32 Osborne Lane, Woodstock, CT 06091
 333 East River Drive, East Hartford, CT 06108

DATE:

10/2016

SHEET NO.:

1 OF 1