



21 Griffin Rd. North  
Windsor, CT 06095

T 860.298.9692  
TRCcompanies.com

June 9, 2025

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: Daniel Imig, P.E. / Benjamin Silverman

Subject: On-Call Asbestos, Lead, Air Quality & Demolition Compliance  
Agreement No. 10.04-02 (23)  
HazMat Inspection – Replacement of Bridge No. 05068, Wellers Bridge Road over  
Shepaug River, Roxbury, Connecticut  
ConnDOT Assignment No. 524-8482  
ConnDOT Project No. 119-121  
TRC Project No. 501871.8482.0710

Dear Mr. Coite:

TRC performed a limited hazardous materials site investigation associated with the replacement of Bridge No. 05068, Wellers Bridge Road over Shepaug River, Roxbury, CT. Lead paint is presumed present on the structural steel/metal bridge components scheduled for impact at Bridge No. 05068. Any paint waste stream generated from the structural steel/metal bridge components is presumed as CTDEEP/RCRA hazardous waste. The metal railing support and guardrail/guardrail support components were galvanized (unpainted) and the wooden railing components were also unpainted; therefore, no lead paint was identified. All suspect asbestos containing materials (light grey bridge caulk, black speckled expansion joint, tan expansion joint caulk) identified and sampled at Bridge No. 05068 were found to be non-ACM. No bird/pigeon guano accumulations, mice droppings/nests, bloodborne pathogens (BBP) concerns, homeless activity or other hazmat/regulated items were observed in accessible areas of Bridge No. 05068.

Laboratory results, TRC Mobile Data Solutions report, and project information sheets are attached.

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

Very Truly Yours,

TRC

Stephen R. Arienti, CHMM  
N.E. Regional Practice Leader – Engineer in Charge

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

## BULK ASBESTOS ANALYSIS REPORT

CLIENT: CT Department of Transportation

Lab Log #: 0067159  
Project #: 501871.8482.0000  
Date Received: 05/09/2025  
Date Analyzed: 05/14/2025

Site: Bridge #05068, Roxbury, CT

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

Sample No.	Sample Location	Homogeneous Material Description	Other Matrix Materials	Asbestos %	Asbestos Type
1	North east wall	Light Grey C1 - Caulking along bridge	---	ND	None
2	South west wall	Light Grey C1 - Caulking along bridge	---	ND	None
3	North Wingwall	Black EJ1 - Expansion joint	---	ND	None
4	East Wingwall	Black EJ1 - Expansion joint	---	ND	None
5	North east bridge wall	Tan EJ2 - Expansion joint	---	ND	None
6	South west bridge wall	Tan EJ2 - Expansion joint	---	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

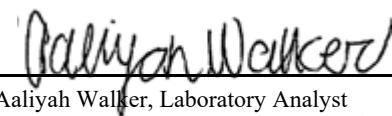
Notes: Asbestos-Containing Material (ACM) is any material containing more than 1% asbestos

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 18/01A EPA -- 40 CFR Appendix E to subpart E of Part 763, Interim Method of the Determination of Asbestos in Bulk Insulation Samples and 18/A03 EPA 600/R-93/116: Method for the Determination of Asbestos in Bulk Building Materials 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 101424-01. TRC is accredited by the AIHA Laboratory Accreditation Programs AIHA LAP (ID: LAP-100122) in the Industrial Hygiene Program (IHLAP) for PLM. 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.

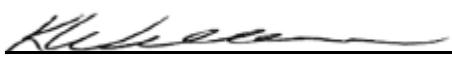
Analyzed by:



Aaliyah Walker

Aaliyah Walker, Laboratory Analyst

Reviewed by:



Kathleen Williamson

Kathleen Williamson, Laboratory Manager

Date Issued:

05/14/2025

#### TRC LABORATORY ASBESTOS ANALYTICAL ACCREDITATIONS

NVLAP Lab Code 101424-0  
RI #PLM00007 TX #300354  
CO# AL-21772

AIHA LAP #100122  
VT #An-000020  
LA#05011

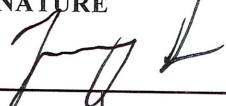
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VA #3333 000283  
PA#68-03387

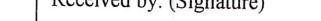
ME LB-0071  
AZ #AZ0944  
PHIL#ALL-461

MA #AA000052  
HI #L-09-004

NY #10980  
NV #CT00004  
WA #C1071

WV #000622  
CA #2907

PROJECT NUMBER 501871.8482.0710				PROJECT NAME ConnDOT - Bridge 05068 Roxbury C1		PARAMETERS			LAB ID #. 67159 TURNAROUND TIME							
SIGNATURE 				INSPECTOR Zachary Smith					PLM:	8hr	24hr	48hr	X	3day		
TEM:	24hr	48hr	3day	5day												
FIELD SAMPLE NUMBER	DATE 4/29/25	TIME 1028	COMP X	TYPE GRAB	SAMPLE LOCATION North east (wall)	PLM/EPA 600/R93/116 (POSITIVE STOP)	PLM/EPA 600/R93/116 (w/ gravimetric reduction) (POSITIVE STOP)	ANALYZE BY LAYER	POINT COUNT (IF >1% & <10%)	TEM/NY NOB 198.4 (IF PLM SERIES NEG)	MATERIAL					
						X	X	X	X	X	C1 - light grey caulk along bridge					
						X	X	X	X	X	" " " "					
						X	X	X	X	X	X	EJ1 - black speckled expansion joint				
						X	X	X	X	X	X	" " " "				
						X	X	X	X	X	X	EJ2 - tan expansion joint				

Relinquished by: (Signature) 	Date: 5/8/25	Received by: (Signature) 5/9/25 	Relinquished by: (Signature)	Date:	Received by: (Signature)
(Printed) Zachary Smith	Time: 1700	(Printed) Aaliyah Walker	(Printed)	Time:	(Printed)
Remarks:			Condition of Samples: _____ Acceptable: Yes <input checked="" type="checkbox"/> No _____ Comments: _____		Page 1 of 1



**EMSL Analytical, Inc.**

528 Mineola Avenue Carle Place, NY 11514

Tel/Fax: (516) 997-7251 / (516) 997-7528

<http://www.EMSL.com> / [carleplacelab@emsl.com](mailto:carleplacelab@emsl.com)

**EMSL Order:** 062505746

**Customer ID:** TRC51

**Customer PO:** C501871

**Project ID:**

**Attention:** Kathleen Williamson  
TRC Environmental Consultants  
21 Griffin Road North  
Windsor, CT 06095

**Phone:** (860) 298-9692

**Fax:** (860) 298-6399

**Received Date:** 05/23/2025 10:52 AM

**Analysis Date:** 05/24/2025

**Collected Date:** 04/29/2025

**Project:** 501871.8482.0710, ConnDOT - Bridge 05068, Roxbury, CT

**Test Report: Asbestos Analysis of Non-Friable Organically Bound Materials by TEM via  
EPA/600/R-93/116 Section 2.5.5.1**

Sample ID	Description	Appearance	% Matrix Material	% Non-Asbestos Fibers	Asbestos Types
01 062505746-0001	North East Wall - C1 - Light Gray Caulking along Bridge	Gray Non-Fibrous Heterogeneous	100.0 Other	None	No Asbestos Detected
03 062505746-0002	North Wingwall - EJ1 - Black Speckled Expansion Joint	Black Fibrous Heterogeneous	99.71 Other	None	0.29% Chrysotile
05 062505746-0003	Northeast Bridge Wall - EJ2 - Tan Expansion Joint	Gray Non-Fibrous Heterogeneous	100.0 Other	None	No Asbestos Detected

Analyst(s)

*Alan Fermin* (3)

Daniel Clarke, Asbestos Laboratory Manager  
or other approved signatory

EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted. EMSL recommends that samples reported as none detected or <1% undergo additional analysis via PLM to avoid the possibility of false negatives.

Samples analyzed by EMSL Analytical, Inc. Carle Place, NY

Initial report from: 05/27/2025 11:15:29

EMSL

528 Mineola Ave, Carle Place, NY 11514  
TEM Bulk Chain of Custody Record

Date: 05/22/2025

PO#: C501871

Analysis Type: **TEM EPA N.O.B**

Client: TRC

Client Job#: 501871.8482.0710

Client Job Ref./Loc.: CT DOT- Bridge #05068, Roxbury, CT

Relinquished by: A. Walker

Received by:

## Report to:

[KGraff@trccompanies.com](mailto:KGraff@trccompanies.com); [DCarillo@trccompanies.com](mailto:DCarillo@trccompanies.com); [MKostruba@trccompanies.com](mailto:MKostruba@trccompanies.com)

Samplers Name: Z. Smith

Samplers Name: Z. Smith

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

*Edition: October 2009  
Superseded Previous Edition*

# ASBESTOS BULK SAMPLING CHAIN OF CUSTODY

21 GRIFFIN ROAD NORTH  
WINDSOR, CONNECTICUT 06095  
TELEPHONE (860) 298-9692  
FAX (860) 208-6380

Relinquished by: (Signature) <i>Zachary Smith</i>	Received by: (Signature) <i>John W. Well</i>	Date: 5/8/25 Time: 1700	Relinquished by: (Signature) <i>John W. Well</i>	Date: 5/9/25 Time: 0900	Received by: (Signature) <i>John W. Well</i>	Date: 5/10/25 Time: 1000
(Printed) Zachary Smith	(Printed) John W. Well	(Printed) 1700	(Printed) John W. Well	(Printed) 1000	(Printed) John W. Well	(Printed) 1000
Remarks:				Condition of Samples: Acceptable: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Comments:		

062505746

EMSL

528 Mineola Ave, Carle Place, NY 11514  
TEM Bulk Chain of Custody Record

Date: 05/22/2025

PO# C501871

58

Client Job#: 501871 8182 0710

Client J00#:  
Client L1h D-6/T 001: CT DOT Division #05068 Route#:  
0118/1:848z.0/10

CI DUL-Bridge #03088, Roxbury, CT  
A.W.W.

A. Walker

Received by: \_\_\_\_\_

Report to:

Report 30.

卷之三

Samplers Name:

## Turnaround Time:

Other: 5 Day

RECEIVED BY DR. DAVID WHARFON  
Dental Wharf 5/23/55

X  
300

# SIH - WinSIH HBM Survey

**ConnDOT, Bridge 05068 Wellers Bridge , Wellers bridge Rd  
Roxbury Connecticut 06783 US**

5/8/2025, 5:53:10 PM EDT

## CREATED

⌚ 4/29/2025, 9:42:34 AM EDT

👤 by Hugh Crundwell

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## UPDATED

⌚ 5/8/2025, 5:53:10 PM EDT

👤 by Zachary Smith

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## STATUS

🟠 Complete

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## ASSIGNED TO

👤 No Assignment



**NOTE: No site sketch detected!**  
Please be sure to add at least one.

## JOB INFORMATION

<b>Site Name</b>	Bridge 05068 Wellers Bridge
<b>Address</b>	Wellers bridge Rd Roxbury Connecticut 06783 US
<b>TRC Project Number</b>	501871.8482.0710
<b>Project Manager</b>	Stephen Arienti, Erik Plimpton
<b>Inspector(s)</b>	Zac Smith, Hugh Crundwell
<b>Client</b>	ConnDOT
<b>Type of Asbestos Survey</b>	Reno/Demo

### Site Sketch Diagrams

<b>Additional Analysis for NOB Materials (Calc)</b>	TEM NY NOB 198.4
<b>PLM Turnaround Time (TAT)</b>	3-day
<b>TEM Turnaround Time (TAT)</b>	3-day
<b>Date</b>	April 29, 2025
<b>General Notes</b>	



**Overview Photo**





## Options & Other Settings

Use auto-numbering? | No

Auto-fill gaps? | Yes

Alert user about missing site sketch? | Yes

**SURVEYS PERFORMED** | Asbestos, XRF, Bridge/Signs/Light Pole/Traffic Signal Items

## Asbestos Survey

### Materials & Samples (3 Items)

#### Materials & Samples - 1. (2) Samples #01–02: C1–Light grey caulking along bridge

##### Sample Information

##### Asbestos Samples (2 Items)

#### Asbestos Samples - 1. Sample #01: C1...North east wall

Sample Number | 01

Sample Location | North east wall

Asbestos Bulk Analysis | PLM EPA 600/R93/116

Grab or Composite | Grab

Date | April 29, 2025

Time | 10:28



**Sample Location Photo****Asbestos Samples - 2. Sample #02: C1...South west wall**

Sample Number	02
Sample Location	South west wall
Asbestos Bulk Analysis	PLM EPA 600/R93/116
Grab or Composite	Grab
Date	April 29, 2025
Time	10:29

**Sample Location Photo****Material Information**

Sampled or Assumed?	Sampled
Material Acronym	C ▶ 1
Material Description	Light grey caulking along bridge
Material Color	Light Grey

**Representative Photos**

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



## Materials & Samples - 2. (2) Samples #03–04: EJ1–Black speckled expansion joint

### Sample Information

#### Asbestos Samples (2 Items)

##### Asbestos Samples - 1. Sample #03: EJ1...North Wingwall

Sample Number	03
Sample Location	North Wingwall
Asbestos Bulk Analysis	PLM EPA 600/R93/116
Grab or Composite	Grab
Date	April 29, 2025
Time	09:59

##### Sample Location Photo



##### Asbestos Samples - 2. Sample #04: EJ1...East Wingwall



Sample Number	04
Sample Location	East Wingwall
Asbestos Bulk Analysis	PLM EPA 600/R93/116
Grab or Composite	Grab
Date	April 29, 2025
Time	09:59

**Sample Location Photo****Material Information**

Sampled or Assumed?	Sampled
Material Acronym	EJ1
Material Description	Black speckled expansion joint
Material Color	Black

## Representative Photos



Analyze by layer? No

Is material non-friable organically bound (NOB)? Yes

Homogeneous Area

Total Approximate Quantity 150SF

Notes

### Materials & Samples - 3. (2) Samples #05–06: EJ2–Tan expansion joint

#### Sample Information

#### Asbestos Samples (2 Items)

#### Asbestos Samples - 1. Sample #05: EJ2...North east bridge wall

Sample Number 05

Sample Location North east bridge wall

Asbestos Bulk Analysis PLM EPA 600/R93/116



Grab or Composite	Grab
Date	April 29, 2025
Time	10:10

**Sample Location Photo****Asbestos Samples - 2. Sample #06: EJ2...South west bridge wall**

Sample Number	06
Sample Location	South west bridge wall
Asbestos Bulk Analysis	PLM EPA 600/R93/116
Grab or Composite	Grab
Date	April 29, 2025
Time	10:11

**Sample Location Photo**



**Material Information**

<b>Sampled or Assumed?</b>	Sampled
<b>Material Acronym</b>	EJ2
<b>Material Description</b>	Tan expansion joint
<b>Material Color</b>	Tan

## Representative Photos



Analyze by layer?	No
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Is material non-friable organically bound (NOB)?	Yes
--	-----

Homogeneous Area	
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Total Approximate Quantity	30SF
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Notes	
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## XRF Survey

Niton XRF Model No.	
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XRF Survey Completed	No
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XRF Data Downloaded	No
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XRF Shots >1.0 on non-metallic building materials	No
---	----

Date Data Downloaded	
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## Bridge/Signs/Light Pole/Traffic Signal Item Inventory



## Items (1 Item)

### Items - 1. 05068

Bridge/Sign/Light Pole/Traffic Signal No.	05068
General Notes	Poison Ivy spotted on all Wingwalls
Accessibility	Accessible
Paint on Structure (s)?	Yes
Paint on what Components/Structure(s)?	Girders underneath bridge
Suspect Asbestos Containing Materials Identified on Structure	Yes
Guano Present?	No
Homeless Activity	No
Bloodborne Pathogen Concerns?	No
Mice/Mouse Nests/Droppings	No

## LAB & SAMPLE SUBMISSION INFO

Signature

## Asbestos Bulk Samples

Remarks to be added to the CoC	
Asbestos samples submitted to TRC lab?	No
Date Submitted to Lab	
Asbestos bulk sample CoC data electronically sent to lab yet?	Yes

## 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





# PROJECT 0119-0121

## REPLACEMENT OF BRIDGE NO. 05068

### TOWN OF ROXBURY

Last Updated: 02/09/2024

#### Project Location

Wellers Bridge Road over Shepaug River

#### Purpose and Need

Address structural deficiencies associated with poor deck condition, functional obsolescence, and scour critical hydraulic condition in order to get the bridge in a State of Good Repair and accommodate a 100-year frequency storm with adequate freeboard. The main reasons for the recommended replacement are existing deck is in poor condition, and the underside has some areas of serious condition and bridge curb-to-curb width is 21.2 feet, with an ADT = 3,000 vehicles per day.

#### Scope of Work

Based upon recent inspection and evaluation of Bridge No. 05068, the following is recommended:

Replace the existing bridge with a new single-span structure consisting of a single-span Hybrid metalized steel multi-girder superstructure on reinforced cast-in-place integral abutments, all founded on piles.

**Existing Bridge:** Type: Multi-girder superstructure with composite deck, on concrete abutments and center pier

**Length/Spans:** 147' / 2-span      **Width:** 21'      **Year Built:** 1956, rehab 2001

**Proposed Bridge:** Type: Hybrid Steel Metalized Multi-girder with concrete deck on pile supported integral abutments

**Length/Spans:** 177.8' / 1 span      **Width:** 37'



<b>Project Manager</b>	Marc P. Byrnes	<b>Anticipated Construction Start Date</b>	Fall 2025	<b>Anticipated Construction Completion Date</b>	Fall 2026	<b>Total Project Cost</b>	\$3,635,000
------------------------	----------------	--	-----------	---	-----------	---------------------------	-------------

**Federal Local Bridge Program****Federal-aid Project # (Design): 6119(TBD)****State Project # (Design and Construction): 119-121****Replacement of Bridge No. 05068****Wellers Bridge Road over Shepaug River****Town of Roxbury**

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**PROJECT DESCRIPTION**

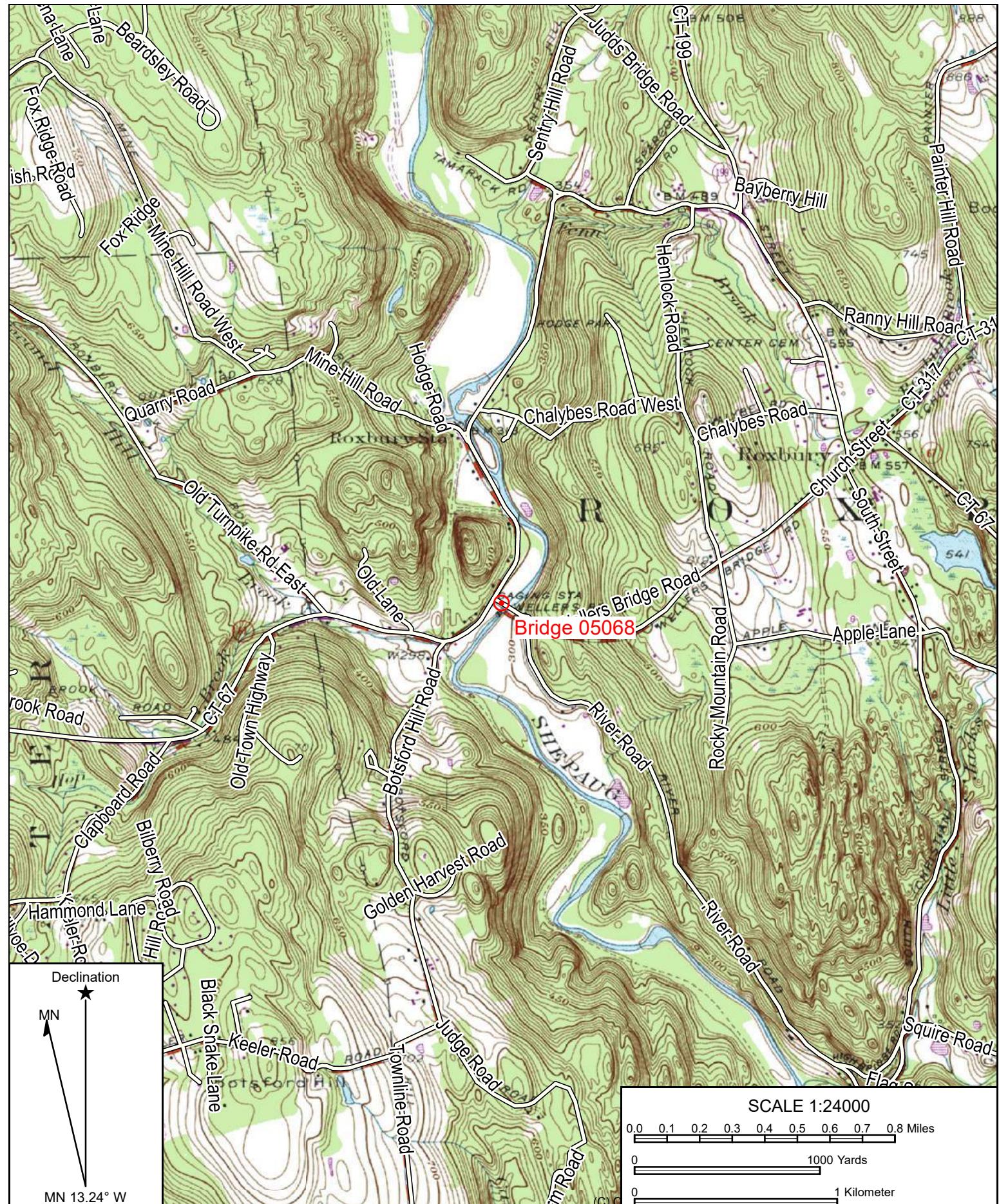
Bridge No. 05068 is situated on Wellers Bridge Road over the Shepaug River, approximately 200 feet east of Route 67 (Baker Road), in the Town of Roxbury.

The bridge, constructed in 1956 and rehabilitated in 2001, consists of a two-span steel multi-girder superstructure with composite concrete deck on reinforced cast-in-place abutments and center pier. Wellers Bridge Road is classified as a rural minor collector with an estimated current average daily traffic (ADT) of 4,784 in 2021. The existing structure is generally oriented in an east-west direction with an approximate 14 degree skew angle and does not have sidewalks. Vertically, the bridge and its immediate approaches are located a slight tangent that slopes down gradient towards the west. The structure length is approximately 147 feet with a maximum span of 68 feet, and the total structure width measures 25.5 feet. The roadway on the bridge has a bituminous concrete surface and curb-to-curb width of 21 feet, 2 inches. The approach roadway has a posted speed limit of 30 miles per hour and a 24-foot wide approach width that provides for two lanes of vehicular traffic (one lane in each direction). There are metal beam guiderails on the approaches, and galvanized steel posts with timber rails run along the full length of the bridge between parapet concrete end blocks. There are concrete rail bases with vertical granite curbs. Three fiber optic conduits are located under the deck, and overhead utility wires span the river parallel to the bridge on the north side of the structure.

Bridge No. 05068 is Functionally Obsolete, Scour Critical, and the Deck Condition is considered to be Poor. The functional obsolescence designation is due to the roadway curb-to-curb width being substandard for the average daily traffic volume it experiences per day. 2021 DOT Routine Inspection includes a Scour Critical appraisal rating and notes undercutting/erosion of up to 2-feet and sloughing of embankments. A 1999 Bridge Scour Evaluation Program Report also classified the bridge as Scour Critical and predicted scour here that would totally expose the piles under the abutments and the sheet piling around the pier depicted on the 1956 bridge plans. This 1999 evaluation report also recommended a monitoring program with provisions for bridge closure and inspection as scour countermeasures at this site; the installation of sheet piling or large rip rap at the pier and abutments were considered impractical as countermeasures. Deck structural deficiencies observed under the bridge during the 2021 DOT inspection include large areas of light to moderate scale with efflorescence frosting and isolated areas of map cracking. There are also isolated areas of severe scale and random areas of discoloration and efflorescence stains throughout. In Span 2 there is severe scale, punky concrete, exposed rebar, hollow sounding areas, stalactites, and a 6-inch deep spall with exposed and debonded rebar. In Span 1 there is an isolated longitudinal crack, honeycombing up to  $\frac{1}{2}$ -inch deep, a 3-inch deep spall with exposed rebar, map hairline cracks with light efflorescence, and a hollow area.

The project is located in a FEMA-mapped flood zone with base flood elevations shown; therefore, Flood Management Certification approval is required. A permit or approval from the Roxbury Inland Wetlands and Watercourses Commission is required. A Self Verification under the U.S. Army Corps of Engineers General Permit issued for the State of Connecticut is also anticipated based on the project activities.

The proposed project involves bridge replacement with a possible two-span precast concrete or galvanized steel beam superstructure supported on cast-in-place concrete abutments with wingwalls and a center pier all founded on piles. The new bridge would have an improved roadway width. Incidental work on roadway approaches would include minimal pavement reconstruction and/or resurfacing and upgrading existing guide railing near the bridge, if necessary, to meet current safety standards.



Name: ROXBURY  
 Date: 12/27/21  
 Scale: 1 inch = 2,000 ft.

Location: 041° 32' 59.6556" N, 073° 19' 47.7740" W  
 WELLERS BRIDGE ROAD OVER SHEPAUG RIVER

Bridge No.  
05068

Google



Bridge No.  
05068