



21 Griffin Rd. North  
Windsor, CT 06095

T 860.298.9692  
TRCcompanies.com

October 16, 2024

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. 02698, Route 149 over Dykas Brook  
East Haddam, CT  
ConnDOT Assignment No. 524-8221  
ConnDOT Project No. 40-148  
TRC Project No. 501871.8221.0710

Dear Mr. Coite:

TRC performed a limited hazardous materials site investigation associated with the replacement of Bridge No. 02698, Route 149 over Dykas Brook in East Haddam, CT.

Results of the survey identified lead paint on the metal railings/railing support components (on both sides) to be impacted at Bridge No. 02698.

Results obtained from the TCLP waste stream sampling and analysis for leachable lead from the paint on the railings/railing support components characterized the paint waste stream at Bridge No. 02698 as **CTDEEP/RCRA hazardous waste**.

The metal guardrail components (on both sides) were galvanized (unpainted) therefore no lead paint was identified.

All suspect asbestos-containing materials (black asphalt filler in between concrete wall joints and black tar coating on concrete walls) identified and sampled at Bridge No. 02698 were determined to be non-ACM.

No bird/pigeon guano, bloodborne pathogens (BBP) concerns, or other hazmat/regulated items were identified at Bridge No. 02698.

Associated XRF Measurement Data Summary Table, Laboratory Results, TRC Mobile Data Solutions Report, and the 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  
WIN Office Practice Leader – Program Manager

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



## Lead Based Paint Measurement Summary Table

Device(s) : Niton XLP301-A (Serial #24792) X Ray Fluorescence (XRF) Spectrum Analyzer  
 Client : ConnDOT  
 Site : Bridge No. 02698, East Haddam, CT  
 Project # : 501871.8221.0710  
 Date(s) : 9/24/2024  
 Inspector : DH

Number	Interior/ Exterior	Bridge No.	Side	Structure	Feature	Material	Color	Condition	Reading (mg/cm <sup>2</sup> )	Precision (mg/cm <sup>2</sup> )	Depth Index	Duration (sec)	Date/Time
1		<b>Self Calibration</b>										94.3	9/24/2024 9:05
2		<b>Calibration 0.0</b>							0.0	0.0	1.0	8.1	9/24/2024 9:17
3		<b>Calibration 0.7</b>							0.7	0.1	1.0	4.1	9/24/2024 9:18
4		<b>Calibration 1.1</b>							1.1	0.1	1.0	13.8	9/24/2024 9:18
5		<b>Calibration 1.3</b>							1.3	0.1	1.2	7.8	9/24/2024 9:19
6		<b>Calibration 0.3</b>							0.3	0.2	1.2	2.5	9/24/2024 9:21
7	Exterior	Bridge No. 02698		Railing		Metal	Grey	Defective	<b>2.6</b>	<b>0.5</b>	1.5	3.1	9/24/2024 9:24
8	Exterior	Bridge No. 02698		Railing		Metal	Grey	Defective	<b>3.5</b>	<b>0.4</b>	1.7	4.4	9/24/2024 9:24
9	Exterior	Bridge No. 02698		Railing Support		Metal	Grey	Defective	<b>4.7</b>	<b>0.9</b>	1.8	3.1	9/24/2024 9:25
10	Exterior	Bridge No. 02698		Railing Support		Metal	Grey	Defective	<b>4.9</b>	<b>0.5</b>	1.8	5.3	9/24/2024 9:26
11	Exterior	Bridge No. 02698		Railing Support		Metal	Grey	Defective	<b>3.3</b>	<b>0.6</b>	1.6	3.1	9/24/2024 9:27
12		<b>Calibration 0.0</b>							0.0	0.0	1.0	8.2	9/24/2024 9:34
13		<b>Calibration 0.7</b>							0.7	0.1	1.0	4.1	9/24/2024 9:34
14		<b>Calibration 1.4</b>							1.4	0.1	1.1	8.4	9/24/2024 9:35

Lead paint includes paint found to contain **any detectable** amount of lead by Atomic Absorption Spectrophotometry (AAS) or X-Ray Fluorescence (XRF).

Side A = Street side; Sides B,C,D follow clockwise



**BULK ASBESTOS ANALYSIS REPORT**

CLIENT: CT Department of Transportation

Lab Log #: 0065383  
Project #: 501871.8221.0710  
Date Received: 09/24/2024  
Date Analyzed: 09/25/2024

Site: Bridge 02698, Route 149 over Dykas Brook, East Haddam, CT

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

Sample No.	Sample Location	Homogeneous Material Description	Other Matrix Materials	Asbestos %	Asbestos Type
01	Southeast side of bridge	Black AF1 - Asphalt filler in between the concrete walls	10% cellulose	ND	None
02	Northwest side of bridge	Black AF1 - Asphalt filler in between the concrete walls	10% cellulose	ND	None
03	Southeast side of bridge	Black TC1 - Tar coating on concrete walls	- - -	ND	None
04	Northwest side of bridge	Black TC1 - Tar coating on concrete walls	- - -	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:

A handwritten signature in black ink, appearing to read "Drue Marino", written over a horizontal line.

Drue Marino, Laboratory Analyst

Reviewed by

A handwritten signature in black ink, appearing to read "Kathleen Williamson", written over a horizontal line.

Kathleen Williamson, Laboratory Manager

**Date Issued**

09/26/2024

**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

CT #PH-0426  
VA #3333 000283  
PA#68-03387

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

MA #AA000052  
HI #L-09-004

NY #10980 WV #000622  
NV #CT00004 CA #2907  
WA #C1071

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

# ASBESTOS BULK SAMPLING CHAIN OF CUSTODY

LAB ID #. 6383

PROJECT NUMBER		PROJECT NAME		PARAMETERS				TURN AROUND TIME									
501871.8221.0710		ConnDOT — Bridge 02698; East Haddam, CT, Route 149 over Dykas Brook, East Haddam, CT						PLM:	8hr	24hr	48hr	3day					
SIGNATURE		INSPECTOR		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)	TEM:	24hr	48hr	3day					
		Cole Bova, David Heelon						MATERIAL									
FIELD SAMPLE NUMBER	DATE	TIME	TYPE	SAMPLE LOCATION													
01	9/24/2024	09:06	COMP	GRAB	Southeast side of bridge	X											
02	9/24/2024	09:08			Northwest side of bridge	X											
03	9/24/2024	09:13			Southeast side of bridge	X											
04	9/24/2024	09:17			Northwest side of bridge	X											

Relinquished by: (Signature)	Date:	Received by: (Signature)	Date:	Relinquished by: (Signature)	Date:	Received by: (Signature)
<i>David Heelon</i>	9/24/24	<i>[Signature]</i>	9/20			
(Printed)		(Printed)		(Printed)		(Printed)
<i>David Heelon</i>	12:20	<i>David Heelon</i>	9/24/24			
	pm					
Remarks: Email results to: Steve Armenti and David Heelon				Condition of Samples: Acceptable: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Comments:		
				Page 1 of 1		



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

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

						For Lab Use Only			
Client ID #		Lab ID#		Description		Location		Acceptable on Receipt	Comments
01		65383		Asphalt		See COC			



# 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: 062413811

Customer ID: TRC51

Customer PO: 50187182210710

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:** 09/26/2024 12:53 PM  
**Analysis Date:** 09/28/2024  
**Collected Date:** 09/24/2024

**Project:** ConnDOT - Bridge 02698; East Haddam, CT, Route 149 over Dykas Brook, East Haddam, CT; 501871.8221.0710

## 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
03 062413811-0001	South side of Bridge - TC1 - Tar coating on concrete walls	Black Non-Fibrous Heterogeneous	100.0 Other	None	No Asbestos Detected

Analyst(s)

Ricky Calzolano (1)

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: 09/30/2024 09:01:48



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

LAB ID #. **6583**

PROJECT NUMBER		PROJECT NAME		INSPECTOR		PARAMETERS				TURNAROUND TIME							
						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)	PLM:	8hr	24hr	48hr	3day	TEM:	24hr
501871.8221.0710		ConnDOT -- Bridge 02698; East Haddam, CT, Route 149 over Dykas Brook, East Haddam, CT		Cole Bova, David Heelon													
FIELD SAMPLE NUMBER	DATE	TIME	TYPE		SAMPLE LOCATION	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						
			COMP	GRAB							AF1 - Asphalt filler in between the concrete walls	AF1 - Asphalt filler in between the concrete walls	TC1 - Tar coating on concrete walls	TC1 - Tar coating on concrete walls			
01	9/24/2024	09:06	X		Southeast side of bridge	X					AF1 - Asphalt filler in between the concrete walls						
02	9/24/2024	09:08	X		Northwest side of bridge	X					AF1 - Asphalt filler in between the concrete walls						
03	9/24/2024	09:13	X		Southeast side of bridge	X					TC1 - Tar coating on concrete walls						
04	9/24/2024	09:17	X		Northwest side of bridge	X					TC1 - Tar coating on concrete walls						

RECEIVED  
EMSL ANALYTICAL, INC.  
Carle Place, NY  
SEP 26 2024 PM12:53

Relinquished by: (Signature)	Date:	Received by: (Signature)	Date:	Relinquished by: (Signature)	Date:	Received by: (Signature)
<i>David Heelon</i> (Printed)	9/24/24	<i>David Heelon</i> (Printed)	9/24/24			
<i>David Heelon</i> (Printed)	12:20 pm	<i>David Heelon</i> (Printed)	9/26/24			
Remarks: Email results to: Steve Armenti and David Heelon				Condition of Samples: Acceptable: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Comments:		

*John Allard*  
9/26/24





# 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: 062413816

Customer ID: TRC51

Customer PO: 50187182210710

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:** 09/27/2024 10:39 AM  
**Analysis Date:** 10/02/2024  
**Collected Date:** 09/24/2024

**Project:** ConnDOT - Bridge 02698; East Haddam, CT, Route 149 over Dykas Brook, East Haddam, CT; 501871.8221.0710

## 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 062413816-0001	Southeast Side of Bridge - AF - Asphalt filler in between the concrete walls	Black Non-Fibrous Heterogeneous	100.0 Other	None	No Asbestos Detected

Analyst(s)

Keith McWilliams (1)

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: 10/03/2024 09:27:45

# EMSL

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



Date: 09/26/2024

**PO#:** C501871

Client:  TRC

Client Job#: 501871.8221.0710

Client Job Ref./Loc.: CT DOT-Bridge 02698, Route 149 over Dykas Brook, East Haddam, CT

Relinquished by: D. Marino

Received by:

KWilliamson@trccompanies.com; SArienti@trccompanies.com; KGraff@trccompanies.com; DCarillo@trccompanies.com

[EPlimpton@trecompanies.com](mailto:EPlimpton@trecompanies.com); [MKostruba@trecompanies.com](mailto:MKostruba@trecompanies.com)

**Samplers Name:** C. Bova & D. Heelon

Turnaround Time:

<12 Hour	<24 Hour
----------	----------

**<48 Hour**

### 3 Day

## 5 Day

**Other:**

For Lab Use Only						
Client ID #	Lab ID#	Description	Location	Acceptable on Receipt	Comments	
01	65383	Asphalt	See COC		RECEIVED	
					EMSL ANALYTICAL, INC.	
					Carle Place, NY	
					SEP 27 2024 AM10:38	
For Lab Use Only	# Spies	Total	Client #	Batch #	Results Reported	Comments

He. br



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

## ASBESTOS BULK SAMPLING CHAIN OF CUSTODY

Edition: October 2009  
Supersedes Previous Edition

LAB ID #: 6383

PROJECT NUMBER		PROJECT NAME		PARAMETERS				TURNAROUND TIME						
501871.8221.0710		ConnDOT - Bridge 02698; East Haddam, CT, Route 149 over Dykas Brook, East Haddam, CT		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)	PLM:	8hr	24hr	48hr	3day	
SIGNATURE		INSPECTOR							TEMP:	24hr	48hr	3day	5day	
INSPECTOR		Cole Bova, David Heelon		MATERIAL										
FIELD SAMPLE NUMBER	DATE	TIME	TYPE	SAMPLE LOCATION										
				COMP	GRAB									
01	9/24/2024	09:06	X		Southeast side of bridge	X								
02	9/24/2024	09:08	X		Northwest side of bridge	X								
03	9/24/2024	09:13	X		Southeast side of bridge	X								
04	9/24/2024	09:17	X		Northwest side of bridge	X								

RECEIVED  
EMSL ANALYTICAL, INC.  
Carle Place, NY

SEP 27 2024 AM 10:39

Relinquished by: (Signature)	Date:	Received by: (Signature)	Date:	Relinquished by: (Signature)	Date:	Received by: (Signature)	Date:
<i>David Heelon</i> (Printed)	9/24/24	<i>[Signature]</i> (Printed)	9/24/24				
<i>David Heelon</i>	12:20 pm	<i>[Signature]</i> (Printed)	9/24/24				
Remarks: Email results to: Steve Armenti and David Heelon							
Condition of Samples: Acceptable: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>				Comments:			

Page 1 of 1



Client: Mr. Stephen Arienti  
TRC Environmental Consultants  
21 Griffin Rd., North  
Windsor, CT 06095

# **Analytical Report**

## **CET# 24I0659**

Report Date: September 27, 2024  
Project: Bridge 02698, East Haddam  
Project Number: 501871.8221.0710

Connecticut Laboratory Certificate: PH 0116  
Massachusetts Laboratory Certificate: M-CT903  
Rhode Island Laboratory Certificate: 199



New York NELAP Accreditation: 11982  
Pennsylvania Certificate: 68-02927

CET # : 24I0659

Project: Bridge 02698, East Haddam

Project Number: 501871.8221.0710

### **SAMPLE SUMMARY**

The sample(s) were received at 22.0°C.

This report contains analytical data associated with following samples only.

Sample ID	Laboratory ID	Matrix	Collection Date/Time	Receipt Date
1	24I0659-01	Paint Chip	9/24/2024	09/25/2024

**Analyte: TCLP Lead [EPA 6020B]**

**Analyst: EAS**

**Prep: EPA 3005A-1311**

**Matrix: Extract**

Laboratory ID	Client Sample ID	Result	RL	Units	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
24I0659-01	1	48	0.013	mg/L	1	BI42619	09/26/2024	09/26/2024 23:57	

### **CASE NARRATIVE**

No collection times provided by client on chain of custody for the following samples: 24I0659-01.

All questions related to this report should be directed to David Ditta, Timothy Fusco, or Jeffrey Smith at 203-377-9984.

Sincerely,

This technical report was reviewed by Amy Dufficy



David Ditta  
Laboratory Director



Project Manager

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Report Comments:

Sample Result Flags:

- E- The result is estimated, above the calibration range.
- H- The surrogate recovery is above the control limits.
- L- The surrogate recovery is below the control limits.
- B- The compound was detected in the laboratory blank.
- P- The Relative Percent Difference (RPD) of dual column analyses exceeds 40%.
- D- The RPD between the sample and the sample duplicate is high. Sample Homogeneity may be a problem.
- + - The Surrogate was diluted out.
- \*C1- The Continuing Calibration did not meet method specifications and was biased low for this analyte. Increased uncertainty is associated with the reported value which is likely to be biased low.
- \*C2- The Continuing Calibration did not meet method specifications and was biased high for this analyte. Increased uncertainty is associated with the reported value which is likely to be biased high.
- \*F1- The Laboratory Control Sample recovery is outside of control limits. Reported value for this analyte is likely to be biased on the low side.
- \*F2- The Laboratory Control Sample recovery is outside of control limits. Reported value for this analyte is likely to be biased on the high side.
- \*I- Analyte exceeds method limits from second source standard in Initial Calibration Verification (ICV). No directional bias.

All results met standard operating procedures unless indicated by a data qualifier next to a sample result, or a narration in the QC report.

For Percent Solids, if any of the following prep methods (3050B, 3540C, 3545A, 3550C, 5035 and 9013A) were used for samples pertaining to this report, the percent solids procedure is within that prep method.

Complete Environmental Testing is only responsible for the certified testing and is not directly responsible for the integrity of the sample before laboratory receipt.

ND is None Detected at or above the specified reporting limit

Reporting Limit (RL) is the limit of detection for an analyte after any adjustment made for dilution or percent moisture.

All analyses were performed in house unless a Reference Laboratory is listed.

Samples will be disposed of 30 days after the report date.

CET # : 24I0659  
Project: Bridge 02698, East Haddam  
Project Number: 501871.8221.0710

#### CERTIFICATIONS

##### Certified Analyses included in this Report

Analyte	Certifications
<i>EPA 6020B in Water</i>	
Lead	CT

Complete Environmental Testing operates under the following certifications and accreditations:

Code	Description	Number	Expires
CT	Connecticut Public Health	PH0116	09/30/2024





# SIH - WinSIH HBM Survey

**ConnDOT, Bridge 02698; East Haddam, CT, Route 149 over Dykas Brook East Haddam CT US**

12/10/2024, 5:04:33 PM UTC

## CREATED

🕒 9/23/2024, 10:25:45 PM UTC

👤 by David Heelon

## UPDATED

🕒 12/10/2024, 5:04:33 PM UTC

👤 by Miguel Marques

## STATUS

🔴 In Progress

## ASSIGNED TO

👤 No Assignment



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

## JOB INFORMATION

Site Name	Bridge 02698; East Haddam, CT
Address	Route 149 over Dykas Brook East Haddam CT US
TRC Project Number	501871.8221.0710
Project Manager	Erik Plimpton, Stephen Arienti
Inspector(s)	David Heelon, Cole Bova
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)	5-day
Date	September 24, 2024
General Notes	No Regulated Items/hazardous materials found at site. No guano found at site. Railings and railing supports at top of bridge had deteriorated gray paint that was sampled for TCLP. Gray paint is >1.0 mg/ cm <sup>2</sup> on the Niton. Items sampled for asbestos: black asphalt filler between concrete walls (AF1) and black tar coating on concrete wall (TC1). Guardrails at top of bridge are galvanized and not painted.



Overview Photo





## Options & Other Settings

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

<b>SURVEYS PERFORMED</b>	Asbestos, XRF, Hazardous Materials Inventory, Bridge/Signs/Light Pole/Traffic Signal Items, TCLP Sampling
--------------------------	---

## Asbestos Survey

## Materials & Samples (2 Items)

**Materials & Samples - 1. (2) Samples #01-02: AF1-Asphalt filler in between the concrete walls**

## Sample Information

## Asbestos Samples (2 Items)



**Asbestos Samples - 1. Sample #01: N/A...Southeast side of bridge**

Sample Number	01
Sample Location	Southeast side of bridge
Asbestos Bulk Analysis	PLM EPA 600/R93/116
Grab or Composite	Grab
Date	September 24, 2024
Time	09:06
Sample Location Photo	

**Asbestos Samples - 2. Sample #02: AF1...Northwest side of bridge**

Sample Number	02
Sample Location	Northwest side of bridge
Asbestos Bulk Analysis	PLM EPA 600/R93/116
Grab or Composite	Grab
Date	September 24, 2024
Time	09:08
Sample Location Photo	

**Material Information**

Sampled or Assumed?	Sampled
Material Acronym	AF1
Material Description	Asphalt filler in between the concrete walls
Material Color	Black



## Representative Photos



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

## Materials & Samples - 2. (2) Samples #03–04: TC1–Tar coating on concrete walls

### Sample Information

### Asbestos Samples (2 Items)

### Asbestos Samples - 1. Sample #03: N/A...Southeast side of bridge

Sample Number	03
Sample Location	Southeast side of bridge
Asbestos Bulk Analysis	PLM EPA 600/R93/116



Grab or Composite	Grab
Date	September 24, 2024
Time	09:13
Sample Location Photo	

### Asbestos Samples - 2. Sample #04: TC1...Northwest side of bridge

Sample Number	04
Sample Location	Northwest side of bridge
Asbestos Bulk Analysis	PLM EPA 600/R93/116
Grab or Composite	Grab
Date	September 24, 2024
Time	09:17
Sample Location Photo	

### Material Information

Sampled or Assumed?	Sampled
Material Acronym	TC ▶ 1
Material Description	Tar coating on concrete walls
Material Color	Black

#### Representative Photos



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



Notes

**XRF Survey**

Niton XRF Model No.	24792
XRF Survey Completed	Yes
XRF Data Downloaded	Yes
XRF Shots >1.0 on non-metallic building materials	No
Date Data Downloaded	September 24, 2024

**HAZMAT Inventory****Inventory Areas****TCLP/SPLP/Total Lead Survey****Samples (1 Item)****Samples - 1. Paint chips from railing and railing supports.**

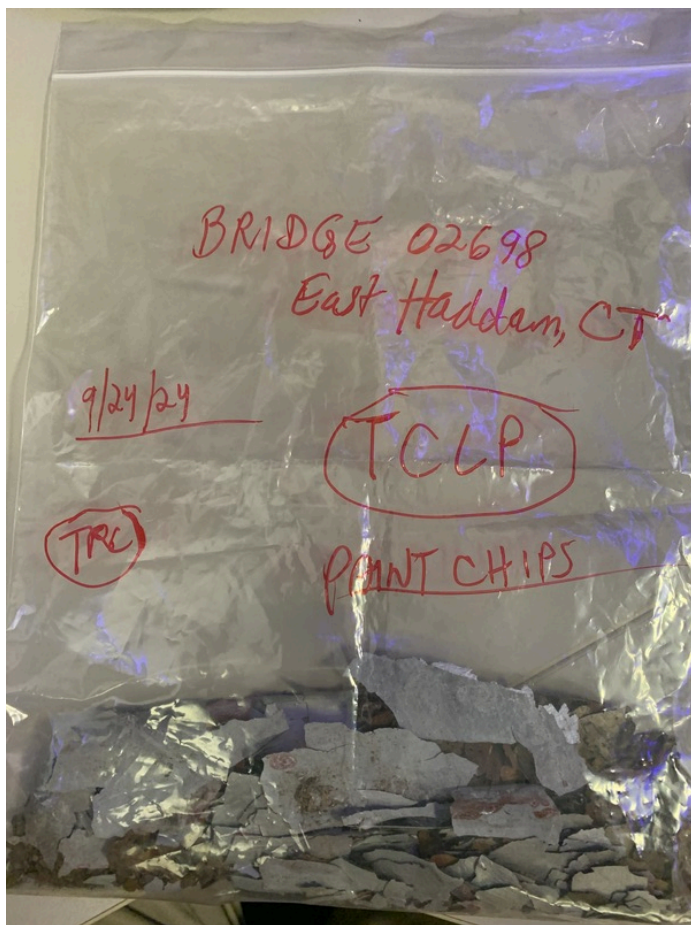
TCLP/SPLP/Total Lead Sample Description	Paint chips from railing and railing supports.
---	--

**TCLP/SPLP/Total Lead Components (1 Item)****TCLP/SPLP/Total Lead Components - 1. Metal**

Material	Metal
Square Footage	
Type of Analysis	TCLP Lead
Sample Number	1
Grab or Composite	Composite
Date	September 24, 2024
Time	09:15
TCLP/SPLP/Total Lead Notes	



## TCLP/SPLP/Total Lead Photos



TRC										TCLP CHAIN OF CUSTODY									
21 GRIFFIN ROAD NORTH WINDSOR, CONNECTICUT 06095 TELEPHONE (860) 298-6380 FAX (860) 298-6380										Edition: November 2013 Supersedes Previous Edition									
PROJECT NAME 501871.83al. 0710 East Haddam, CT										LAB ID #									
INSPECTOR (SIGNATURE) David Heelon										PRINTED									
FIELD SAMPLE NUMBER 1										DATE 9/24/24									
TYPE GRAB										SAMPLE LOCATION Railings + Railing Supports									
RCRA Pb										RCRA Pb, AS, CR, CD									
8 RCRA Metals										TCLP Pb									
SPLP Pb										MATERIAL Paint Chips (Grey)									
TURNAROUND TIME										L.A.B. ID #									
1 day										2 day									
3 day										4 day									
5 day										6 day									
7 day										8 day									
9 day										10 day									
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97 day										98 day									
99 day										100 day									

## Bridge/Signs/Light Pole/Traffic Signal Item Inventory

## Items (1 Item)

## Items - 1. Bridge 02698

Bridge/Sign/Light Pole/Traffic Signal No.	Bridge 02698
General Notes	East Haddam. Route 148 over Dykas Brook
Accessibility	Accessible
Paint on Structure (s)?	Yes
Paint on what Components/Structure(s)?	Metal railings and metal railing supports
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



Signed 9/24/2024, 4:06:27 PM UTC

**Asbestos Bulk Samples**

Remarks to be added to the CoC

Asbestos samples submitted to TRC lab?

Yes

Date Submitted to Lab

September 24, 2024

Asbestos bulk sample CoC data electronically sent to lab yet?

Yes

Asbestos bulk sample results reviewed?

No

**TCLP Samples**

TCLP/SPLP Samples Submitted to Lab

Yes

TCLP/SPLP Samples Submitted To:

CET

Date Submitted to Lab

September 25, 2024

**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, Asbestos chain-of-custody - Send to Lab



Generate Documents

## PROJECT STATUS TRACKING

Has this survey been completed?	No
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Has the report been written?	No
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Has the report been reviewed?	No
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# PROJECT 0040-0148 BRIDGE NO. 02698 / ROUTE 149 OVER DYKAS BROOK EAST HADDAM

Last Updated: 4/03/2023

## Project Location

Bridge No. 02698 carries State Route 148 over the Dykas Brook in East Haddam. The bridge is located approximately 3/4 miles southwest of Moodus Center.

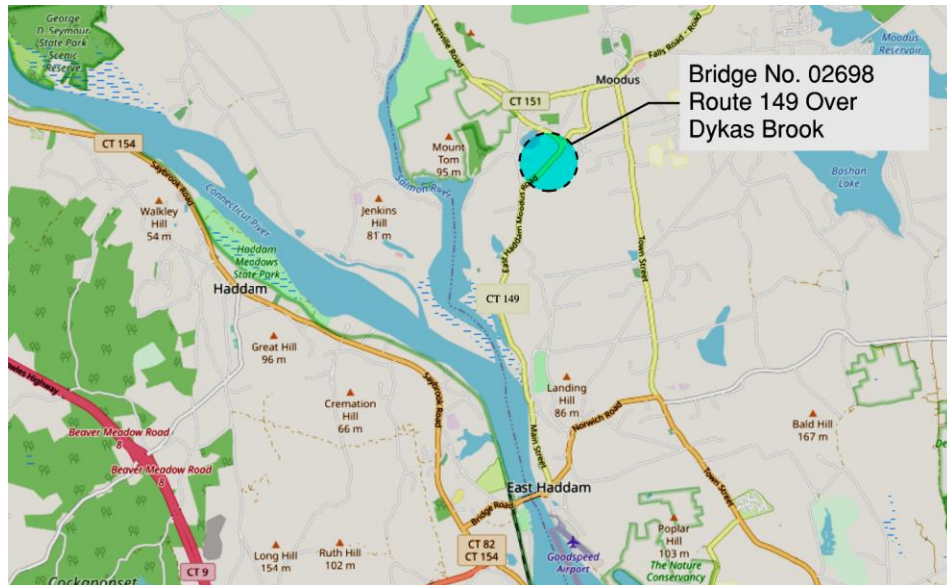
## Purpose and Need

The purpose of this project is to address structural deficiencies of Bridge No. 02698 by designing a replacement bridge that meets all current design standards. The need for this project stems from structural deficiencies identified in the bridge inspection report which assigns a Structural Evaluation rating of 4 to the structure.

## Scope of Work

The scope of work is to replace the bridge structure with a new bridge that includes a structure and roadway minor widening on the north side of the existing bridge. The scope items for this project are:

- Replace existing structure with a new clear span structure built behind the existing structure.
- Utilize reinforced concrete abutments founded on bedrock to support precast prestressed concrete slab units for the superstructure.
- Employ a full road closure over the summer months to expedite construction.
- Mill and pave existing roadway and provide four-foot shoulders on Route 148.
- Widen roadway to accommodate wider Shoulders per Complete Streets requirements.



Project Manager

Francisco T. Fadul

Anticipated Construction Start

2026

Total Project Cost

\$4,100,000



# PROJECT 0040-0148 BRIDGE NO. 02698 / ROUTE 149 OVER DYKAS BROOK EAST HADDAM

Last Updated: 10/31/2023

## NEPA Status

Environmental Review completed.  
Archaeological completed, SHPO/THPO sign-off proceeding.  
Categorical Exclusion Checklist signed 12/19/23

## Risks to Project Delivery

Potential for delayed permits or acquisition of construction easements.  
Complete Streets design exception for sidewalks across the bridge structure may delay Design Approval or be extra work.  
Extra work associated with CS changes

## Major Milestones in the next 6 Months

Categorical Exclusion Checklist signed 12/19/23  
Design Approval Signed 1/16/24  
NTP to FD uploaded 1/17/24

Project Manager	Francisco T. Fadul	Anticipated Construction Start	2026	Total Project Cost	\$4,100,000
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