



February 28, 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. / Michael Bedson, P.E.

Subject: On-Call Asbestos, Lead, Air Quality & Demolition Compliance  
Agreement No.: 8.07-01 (18)  
HazMat Inspection - Bridge Nos. 00388 & 00389, Route 17 & New London Turnpike  
Interchange, Glastonbury, CT  
ConnDOT Assignment No. 519-6097  
ConnDOT Project No. 53-189  
TRC Project No. 289951.6097.0710

Dear Mr. Fox:

TRC performed a limited survey for hazardous building materials associated with the replacement of Bridge Nos. 00388 & 00389, Route 17 & New London Turnpike Interchange in Glastonbury, Connecticut. Results of the survey identified lead paint to be present on the structural steel/metal bridge railing components and concrete abutments of Bridge Nos. 00388 & 00389. Results obtained from TCLP waste stream sampling and analysis for leachable lead from the paint on the structural steel characterized the paint waste stream at Bridge No. 00388 as CTDEEP/RCRA hazardous waste. At Bridge No. 00389, results obtained from TCLP waste stream sampling and analysis for leachable lead from the paint on the structural steel and metal bridge railing characterized the paint waste stream as CTDEEP/RCRA hazardous waste. Results obtained from TCLP waste stream sampling and analysis for leachable lead from the paint on the metal bridge railing at Bridge No. 00388 and concrete abutments at Bridge No. 00389 characterized the paint waste streams as non-hazardous, non-RCRA waste. Soft white caulking on railings (C2), soft tan caulking around base of railing supports (C3) and hard brittle black expansion joint compound on wingwalls/abutments (EJC1) at Bridge No. 00388 were sampled and found to be asbestos containing materials (ACM). At Bridge No. 00389, tan brittle caulking at base of metal railings (C1) and soft tan railing caulking (C2) were sampled and found to be ACM. Other various caulking, expansion joint compounds, white fibrous mesh, black tar pipes and tars were sampled and found to be non-ACM. Bird/pigeon guano accumulations and mouse nests/droppings were identified in accessible areas of Bridge Nos. 00388 & 00389. No bloodborne pathogen (BBP) concerns or other hazardous/regulated items were identified. Associated laboratory data, TRC Mobile Data Solutions report and project description are attached.

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

Very Truly Yours,

TRC

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

Reviewed By:

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



## Lead Based Paint Measurement Summary Table

Device(s): Niton XLP301-A (Serial #25555) X Ray Fluorescence (XRF) Spectrum Analyzer  
 Site: Bridge Nos. 00388 & 00389, Glastonbury, CT  
 Project #: 289951.6097.0710  
 Date(s): 11/7/2019  
 Inspectors: Tyler MacGillivray

Number	Interior/ Exterior	Location	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>										124.7	11/7/2019 11:54
2			<b>3.6 Calibration</b>							3.7	0.3	1.3	4.2	11/7/2019 11:56
3			<b>1.6 Calibration</b>							1.7	0.1	1.2	6.3	11/7/2019 11:56
4			<b>0.3 Calibration</b>							0.4	0.1	1.2	11.8	11/7/2019 11:57
5	Exterior	Glastonbury	Bridge No. 00389		railings		Metal	Grey	Defective	<b>7.4</b>	<b>1.5</b>	1.9	5.8	11/7/2019 11:59
6	Exterior	Glastonbury	Bridge No. 00389		railings		Metal	Grey	Defective	<b>12.0</b>	<b>1.9</b>	2.2	5.3	11/7/2019 12:00
7	Exterior	Glastonbury	Bridge No. 00389		railings		Metal	Grey	Defective	<b>2.8</b>	<b>0.2</b>	1.5	5.5	11/7/2019 12:01
8	Exterior	Glastonbury	Bridge No. 00389		railings		Metal	Grey	Defective	<b>5.4</b>	<b>1.5</b>	1.9	5.1	11/7/2019 12:01
9	Exterior	Glastonbury	Bridge No. 00389		railings		Metal	Red	Defective	<b>7.0</b>	<b>1.4</b>	1.9	5.1	11/7/2019 12:02
10	Exterior	Glastonbury	Bridge No. 00389		railings		Metal	Red	Defective	<b>1.9</b>	<b>0.2</b>	1.6	5.5	11/7/2019 12:03
11	Exterior	Glastonbury	Bridge No. 00389		railings post		Metal	Grey	Defective	<b>3.4</b>	<b>0.3</b>	1.6	5.6	11/7/2019 12:03
12	Exterior	Glastonbury	Bridge No. 00389		railings post		Metal	Grey	Defective	<b>8.6</b>	<b>1.7</b>	1.9	5.1	11/7/2019 12:04
13	Exterior	Glastonbury	Bridge No. 00389		railings post		Metal	Grey	Defective	<b>6.9</b>	<b>1.4</b>	1.8	6.5	11/7/2019 12:04
14	Exterior	Glastonbury	Bridge No. 00389		railings post		Metal	Grey	Defective	<b>2.9</b>	<b>0.3</b>	1.4	3.9	11/7/2019 12:05
15	Exterior	Glastonbury	Bridge No. 00389		beam		Metal	Grey	Intact	<b>3.8</b>	<b>0.4</b>	1.7	4.6	11/7/2019 12:19
16	Exterior	Glastonbury	Bridge No. 00389		beam		Metal	Grey	Intact	<b>3.8</b>	<b>0.4</b>	1.7	5.3	11/7/2019 12:20
17	Exterior	Glastonbury	Bridge No. 00389		beam		Metal	Grey	Intact	<b>2.6</b>	<b>0.3</b>	1.5	4.9	11/7/2019 12:20
18	Exterior	Glastonbury	Bridge No. 00389		beam		Metal	Grey	Intact	<b>10.5</b>	<b>4.9</b>	2.3	1.9	11/7/2019 12:20
19	Exterior	Glastonbury	Bridge No. 00389		beam		Metal	Grey	Intact	<b>9.2</b>	<b>4.1</b>	1.9	2.3	11/7/2019 12:21
20	Exterior	Glastonbury	Bridge No. 00389		bearing		Metal	Grey	Intact	<b>3.6</b>	<b>0.7</b>	1.8	3.2	11/7/2019 12:31
21	Exterior	Glastonbury	Bridge No. 00389		bearing		Metal	Grey	Intact	<b>1.7</b>	<b>0.2</b>	1.5	4.9	11/7/2019 12:32
22	Exterior	Glastonbury	Bridge No. 00389		bearing		Metal	Grey	Intact	<b>3.6</b>	<b>0.4</b>	1.9	4.9	11/7/2019 12:32
23	Exterior	Glastonbury	Bridge No. 00389		bearing		Metal	Grey	Intact	<b>0.1</b>	<b>0.0</b>	1.5	19.2	11/7/2019 12:33
24			<b>3.6 Calibration</b>							3.8	0.3	1.3	4.4	11/7/2019 14:18
25			<b>1.6 Calibration</b>							1.4	0.1	1.1	4.4	11/7/2019 14:19
26			<b>0.3 Calibration</b>							0.3	0.0	1.1	9.9	11/7/2019 14:19
27			<b>3.6 Calibration</b>							3.5	0.3	1.3	4.2	11/7/2019 14:20
28			<b>1.6 Calibration</b>							1.7	0.1	1.2	6.7	11/7/2019 14:21
29			<b>0.3 Calibration</b>							0.3	0.0	1.1	9.7	11/7/2019 14:21
30	Exterior	Glastonbury	Bridge No. 00388		railing		Metal	Grey	Defective	<b>4.6</b>	<b>0.5</b>	2.1	4.8	11/7/2019 14:23
31	Exterior	Glastonbury	Bridge No. 00388		railing		Metal	Grey	Defective	<b>3.6</b>	<b>0.3</b>	1.7	5.1	11/7/2019 14:23
32	Exterior	Glastonbury	Bridge No. 00388		railing		Metal	Grey	Defective	<b>4.8</b>	<b>0.4</b>	1.9	5.3	11/7/2019 14:24
33	Exterior	Glastonbury	Bridge No. 00388		railing		Metal	Red	Defective	<b>2.6</b>	<b>0.3</b>	1.7	4.8	11/7/2019 14:25
34	Exterior	Glastonbury	Bridge No. 00388		railing		Metal	Red	Defective	<b>10.0</b>	<b>1.8</b>	2.5	5.1	11/7/2019 14:25
35	Exterior	Glastonbury	Bridge No. 00388		railing post		Metal	Red	Defective	<b>10.4</b>	<b>1.9</b>	2.4	4.6	11/7/2019 14:26
36	Exterior	Glastonbury	Bridge No. 00388		railing post		Metal	Red	Defective	<b>0.7</b>	<b>0.1</b>	1.6	6.0	11/7/2019 14:27
37	Exterior	Glastonbury	Bridge No. 00388		railing post		Metal	Red	Defective	<b>1.6</b>	<b>0.2</b>	1.3	5.1	11/7/2019 14:27
38	Exterior	Glastonbury	Bridge No. 00388		railing post		Metal	Grey	Defective	<b>3.3</b>	<b>0.3</b>	1.6	4.9	11/7/2019 14:28
39	Exterior	Glastonbury	Bridge No. 00388		railing post		Metal	Grey	Defective	<b>11.6</b>	<b>2.1</b>	2.2	4.4	11/7/2019 14:28
40	Exterior	Glastonbury	Bridge No. 00388		railing post		Metal	Red	Defective	<b>1.0</b>	<b>0.3</b>	1.2	2.1	11/7/2019 14:29
41	Exterior	Glastonbury	Bridge No. 00388		railing post		Metal	Red	Defective	<b>4.1</b>	<b>0.4</b>	1.8	4.8	11/7/2019 14:29
42						<b>VOID</b>								
43	Exterior	Glastonbury	Bridge No. 00388		abutment		Concrete	Grey	Intact	0.0	0.0	1.0	3.7	11/7/2019 14:32

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



## Lead Based Paint Measurement Summary Table

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 Project #: 289951.6097.0710  
 Date(s): 11/7/2019  
 Inspectors: Tyler MacGillivray

Number	Interior/ Exterior	Location	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
44	Exterior	Glastonbury	Bridge No. 00388		abutment		Concrete	Grey	Intact	0.0	0.0	1.0	3.5	11/7/2019 14:32
45	Exterior	Glastonbury	Bridge No. 00388		abutment		Concrete	Grey	Intact	0.0	0.0	1.0	3.7	11/7/2019 14:32
46	Exterior	Glastonbury	Bridge No. 00388		beam		Metal	Grey	Defective	<b>2.2</b>	<b>0.2</b>	1.5	4.4	11/7/2019 14:49
47	Exterior	Glastonbury	Bridge No. 00388		beam		Metal	Grey	Defective	<b>2.2</b>	<b>0.3</b>	1.4	3.7	11/7/2019 14:50
48	Exterior	Glastonbury	Bridge No. 00388		i beam		Metal	Grey	Defective	<b>1.7</b>	<b>0.4</b>	1.3	2.3	11/7/2019 14:50
49	Exterior	Glastonbury	Bridge No. 00388		i beam		Metal	Grey	Defective	<b>2.7</b>	<b>0.2</b>	1.5	5.3	11/7/2019 14:51
50	Exterior	Glastonbury	Bridge No. 00388		bearing		Metal	Grey	Defective	<b>15.5</b>	<b>2.4</b>	2.1	3.9	11/7/2019 14:53
51			<b>3.6 Calibration</b>							3.8	0.3	1.3	7.2	11/7/2019 15:41
52			<b>1.6 Calibration</b>							1.7	0.2	1.2	5.3	11/7/2019 15:41
53			<b>0.3 Calibration</b>							0.3	0.1	1.1	8.1	11/7/2019 15:42

80 Lupes Drive  
Stratford, CT 06615



Tel: (203) 377-9984  
Fax: (203) 377-9952  
e-mail: cet1@cetlabs.com

Client: Mr. Erik Plimpton  
TRC Environmental Consultants  
21 Griffin Rd., North  
Windsor, CT 06095

# Analytical Report

## CET# 9110234

Report Date: November 14, 2019  
Project: Bridge 00388, 00389  
Project Number: 289951.6897.0710

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 #: 9110234

Project: Bridge 00388, 00389

Project Number: 289951.6897.0710

**SAMPLE SUMMARY**

The sample(s) were received at 23.0°C.

This report contains analytical data associated with following samples only.

Sample ID	Laboratory ID	Matrix	Collection Date/Time	Receipt Date
01	9110234-01	Paint Chip	11/07/2019	11/08/2019
02	9110234-02	Paint Chip	11/07/2019	11/08/2019
03	9110234-03	Paint Chip	11/07/2019	11/08/2019
04	9110234-04	Paint Chip	11/07/2019	11/08/2019
05	9110234-05	Paint Chip	11/07/2019	11/08/2019

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

**Analyst: CED**

**Prep: EPA 3005A-1311**

**Matrix: Extract**

Laboratory ID	Client Sample ID	Result	RL	Units	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
9110234-01	01	1.5	0.013	mg/L	1	B9K1324	11/13/2019	11/13/2019 19:15	
9110234-02	02	170	0.052	mg/L	4	B9K1324	11/13/2019	11/14/2019 13:37	
9110234-03	03	70	0.026	mg/L	2	B9K1324	11/13/2019	11/14/2019 13:42	
9110234-04	04	6.1	0.013	mg/L	1	B9K1324	11/13/2019	11/13/2019 19:30	
9110234-05	05	0.27	0.013	mg/L	1	B9K1324	11/13/2019	11/13/2019 19:35	

CET # : 9110234

Project: Bridge 00388, 00389

Project Number: 289951.6897.0710

## CASE NARRATIVE

No collection times provided by client on chain of custody for the following samples: 9110234-01 through -05.

CET #: 9110234

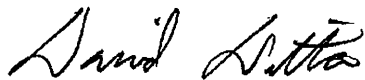
Project: Bridge 00388, 00389

Project Number: 289951.6897.0710

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

Sincerely,

This technical report was reviewed by Robert Blake



David Ditta  
Laboratory Director



Project Manager

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 #: 9110234  
Project: Bridge 00388, 00389  
Project Number: 289951.6897.0710

CERTIFICATIONS

Certified Analyses included in this Report

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

Complete Environmental Testing operates under the following certifications and accreditations:

Code	Description	Number	Expires
CT	Connecticut Public Health	PH0116	09/30/2020





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

9110234

CHAIN OF CUSTODY

Edition: November 2013  
 Supersede Previous Edition

FIELD SAMPLE NUMBER	DATE	TIME	TYPE	SAMPLE LOCATION	PARAMETERS				TURNAROUND TIME					MATERIAL						
					RCRA Pb	RCRA Pb, AS, CR, CD	8 RCRA Metals	TCLP Pb	SPLP Pb	24hr	24hr	48hr	48hr		3day	3day	5day	5day		
PROJECT NAME Bridge 00388 Bridge 00389					PROJECT NUMBER 289951.6897.0710					LAB ID #.										
INSPECTOR: (SIGNATURE) <i>Tyler MacCallum</i>					INSPECTOR: (PRINTED) Tyler MacCallum															
01	10-7-19		X	Railings, Railing Posts on Bridge 00388				X												
02				Beams, pedestals, I-beams under Bridge 00388																
03				Railings, Railing Posts on Bridge 00389																
04				Beams, I-beams, pedestals under Bridge 00389																
05				Concrete abutment under Bridge 00389																

Relinquished by: (Signature) <i>Tyler MacCallum</i>	Received by: (Signature) <i>[Signature]</i>	Date: 11-7-19	Date: 11/8/19
(Printed) Tyler MacCallum	(Printed) GREG GILBERT	Time: 15:36	Time: 16:35
Relinquished by: (Signature) <i>[Signature]</i>		Received by: (Signature) <i>[Signature]</i>	
(Printed) GREG GILBERT		(Printed) GREG GILBERT	
Send results to EPlimpton@trccompanies.com & SArioni@trccompanies.com			



21 GRIFFIN ROAD NORTH  
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## ASBESTOS BULK SAMPLING CHAIN OF CUSTODY

Edition: October 2009  
Supersedes Previous Edition

LAB ID #: 54464

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
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	TURNAROUND TIME					
			COMP	GRAB								8hr	24hr	48hr	3day	5day	
1	11/7/2019	12:40	X	X	South side top level	X				X	C1 - Hard white brittle caulk				X		
2	11/7/2019	15:23	X	X	North side top level	X					C1 - Hard white brittle caulk						
3	11/7/2019	12:42	X	X	South side top level	X				X	C2 - Soft white railing caulk						
4	11/7/2019	15:23	X	X	North side top level	X					C2 - Soft white railing caulk						
5	11/7/2019	12:43	X	X	South side top level	X				X	C3 - Soft tan caulk						
6	11/7/2019	15:23	X	X	North side top level	X					C3 - Soft tan caulk						
7	11/7/2019	12:38	X	X	South side top level	X				X	EJC-1 - Hard brittle black expansion joint compound						
8	11/7/2019	12:47	X	X	North side top level	X					EJC-1 - Hard brittle black expansion joint compound						
9	11/7/2019	13:07	X	X	West side lower level	X				X	EJC-2 - Soft black / grey expansion joint compound						
10	11/7/2019	13:12	X	X	East side lower level	X					EJC-2 - Soft black / grey expansion joint compound						
11	11/7/2019	15:22	X	X	West side lower level	X					M-1 - White fibrous mesh						
12	11/7/2019	15:22	X	X	West side lower level	X					M-1 - White fibrous mesh						

Relinquished by: (Signature) <i>Tyler MacGillivray</i>	Date: 11/7/2019	Received by: (Signature) <i>[Signature]</i>	Date: 11/7/19
(Printed) Tyler MacGillivray	Time: 1540	(Printed) C. Lemire	Time: 1540
Remarks: Please send results to SA \$EP		Condition of Samples: Acceptable: Yes _____ No _____	
		Comments: Page 1 of 2	



21 GRIFFIN ROAD NORTH  
WINDSOR, CONNECTICUT 06095  
TELEPHONE (860) 298-9692  
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## ASBESTOS BULK SAMPLING CHAIN OF CUSTODY

Edition: October 2009  
Supersedes Previous Edition

LAB ID #: 544604

<b>PROJECT NUMBER</b> 289951.6097		<b>PROJECT NAME</b> ConnDOT - Bridge 00388, 567 New London Tpke, Glastonbury, CT		<b>PARAMETERS</b>				<b>TURNAROUND TIME</b>			
<b>SIGNATURE</b> 		<b>INSPECTOR</b> Tyler Macgillivray, Tyler Noll						<b>PLM EPA 600/R93/116 (POSITIVE STOP)</b>	<b>PLM EPA 600/R93/116 (w/ gravimetric reduction) (POSITIVE STOP)</b>	<b>ANALYZE BY LAYER</b>	<b>POINT COUNT (IF &gt;1% &amp; &lt;10%)</b>
<b>FIELD SAMPLE NUMBER</b>	<b>DATE</b>	<b>TIME</b>	<b>TYPE</b>	<b>SAMPLE LOCATION</b>		<b>MATERIAL</b>					
			<b>COMP</b>	<b>GRAB</b>							
13	11/7/2019	13:05	X	X	West side lower level	X					
14	11/7/2019	13:08	X	X	East side lower level	X					

<b>Relinquished by: (Signature)</b> 	<b>Date:</b> 11/7/2019	<b>Received by: (Signature)</b> 	<b>Date:</b> 11/7/19	<b>Relinquished by: (Signature)</b>	<b>Received by: (Signature)</b>
<b>(Printed)</b> Tyler MacGillivray	<b>Time:</b> 1540	<b>(Printed)</b> Clemire	<b>Time:</b> 1540	<b>(Printed)</b>	<b>(Printed)</b>
<b>Remarks:</b> please send results to SA JEP.				<b>Condition of Samples:</b> Acceptable: Yes <input type="checkbox"/> No <input type="checkbox"/>	
				Page 2 of 2	



**BULK ASBESTOS ANALYSIS REPORT**

CLIENT: CT Department of Transportation

Lab Log #: 0054464  
 Project #: 289951.6097.0710  
 Date Received: 11/07/2019  
 Date Analyzed: 11/07/2019

Site: Bridge 00388, 567 New London Turnpike, Glastonbury, CT-Revised

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

Sample No.	Color	Homogenous	Multi-Layered	Layer No.	Other Matrix Materials	Asbestos %	Asbestos Type
1	White (caulk)	Yes	No	--	---	ND	None
2	White (caulk)	Yes	No	--	---	ND	None
3	White (caulk)	Yes	No	--	---	5%	Chrysotile
4	--	--	--	--	--	NA/PS	--
5	Tan (caulk)	Yes	No	--	---	5%	Chrysotile
6	--	--	--	--	--	NA/PS	--
7	Black (expansion joint compound)	Yes	No	--	30% cellulose	ND	None
8	Black (expansion joint compound)	Yes	No	--	30% cellulose	ND	None
9	Black/Grey (expansion joint compound)	Yes	No	--	20% cellulose	ND	None
10	Black/Grey (expansion joint compound)	Yes	No	--	20% cellulose	ND	None
11	White (fibrous mesh)	Yes	No	--	60% cellulose	ND	None
12	White (fibrous mesh)	Yes	No	--	60% cellulose	ND	None
13	Black (pipe tar)	Yes	No	--	10% cellulose	ND	None
14	Black (pipe tar)	Yes	No	--	10% cellulose	ND	None

**TRC LABORATORY ASBESTOS ANALYTICAL ACCREDITATIONS**

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

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

ME LA-0075, LB-0071 MA #AA000052 NY #10980 WV #000622  
 AZ #A20944 HI #L-09-004 NJ #CT004 CA #2907



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

Sample No.	Color	Homogenous	Multi-Layered	Layer No.	Other Matrix Materials	Asbestos %	Asbestos Type
------------	-------	------------	---------------	-----------	------------------------	------------	---------------

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**  
 Kathleen Williamson, Laboratory Manager      Cathryn Lemire, Approved Signatory      11/07/2019

**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 Report

Client Project #: 289951.6097.0710  
 Client Reference: CT DOT - Bridge 00388, 567 New London Turnpike, Glastonbury, CT  
 PO #: C289951  
 Client #: 297  
 Client Name: TRC Companies, Inc. (CT)

Batch: NT 18066  
 Method: NOB  
 Date Received: 11/11/2019  
 Date Analyzed: 11/13/2019  
 Date of Report: 11/13/2019

LAB ID	Field ID	Description:	Color	Initial Weight	CHR	% Asbestos Types			% Organic	% Carb. Asbestos	Total %	Analyzed / Charged	Preped / Charged
						AMO	ACT	CRO					
NT135887	1	Hard White Brittle Caulk		.4654	.00	.00	.00	.00	45.04	2.17	ND	Yes	No
NT135888	7	Hard Brittle Black Expansion Joint Compound		.1999	1.93	.00	.00	.00	75.34	5.40	1.93	Yes	No
NT135889	9	Soft Black/Grey Expansion Joint Compound		.2456	.23	.00	.00	.00	92.18	3.30	TR	Yes	No
NT135890	13	Soft Black Pipe Tar		.2803	.00	.00	.00	.00	94.86	1.46	ND	Yes	No

**Comments:**

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

  
 Mark Derosier, Analyst



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 #: 54465

PROJECT NUMBER 289951.6097		PROJECT NAME ConnDOT - Bridge 00389, 563-565 New London Tpke, Glastonbury, CT		PARAMETERS				TURNAROUND TIME						
								PLM:	24hr	48hr	3day	5day		
SIGNATURE <i>Tyler MacGillivray</i>		INSPECTOR Tyler Macgillivray, Tyler Noll		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)	8hr	24hr	48hr	3day	5day	
									TEMP:	24hr	48hr	3day	5day	
FIELD SAMPLE NUMBER	DATE	TIME	TYPE	COMP	GRAB	SAMPLE LOCATION		MATERIAL						
1	11/7/2019	11:03	X		X	East side top level	X				C1 - Tan brittle caulk			
2	11/7/2019	11:03	X		X	West Side top level	X				C1 - Tan brittle caulk			
3	11/7/2019	14:59	X		X	East Side top level	X				C2 - Soft tan railing caulk			
4	11/7/2019	14:59	X		X	West side top level	X				C2 - Soft tan railing caulk			
5	11/7/2019	10:31	X		X	North side ground level	X				EJC-1 - Grey / black expansion joint compound			
6	11/7/2019	10:38	X		X	North side ground level	X				EJC-1 - Grey / black expansion joint compound			
7	11/7/2019	10:32	X		X	North side ground level	X				EJC-2 - Grey / brown brittle expansion joint compound			
8	11/7/2019	10:37	X		X	North side ground level	X				EJC-2 - Grey / brown brittle expansion joint compound			
9	11/7/2019	10:35	X		X	South side ground level	X				EJC-3 - Black expansion joint compound			
10	11/7/2019	10:35	X		X	South side ground level	X				EJC-3 - Black expansion joint compound			
11	11/7/2019	10:37	X		X	South Side ground level	X				EJC-4 - Black expansion joint compound			

Relinquished by: (Signature) <i>Tyler MacGillivray</i>	Date: 11/7/19	Received by: (Signature) <i>[Signature]</i>	Date: 11/7/19	Relinquished by: (Signature)	Received by: (Signature)
(Printed) Tyler MacGillivray	Time: 15:40	(Printed) Clemire	Time: 15:40	(Printed)	(Printed)
Remarks: Please send results to SA and EP				Condition of Samples: Acceptable: Yes <input type="checkbox"/> No <input type="checkbox"/>	
				Page 1 of 2	





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

<b>PROJECT NUMBER</b> 289951.6097	<b>PROJECT NAME</b> ConnDOT - Bridge 00389, 563-565 New London Tpke, Glastonbury, CT	<b>LAB ID #.</b>	<b>TURNAROUND TIME</b>						
				PLM:	8hr	24hr	48hr	3day	5day
				TEM:	24hr	48hr	3day	5day	

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 N98.4 (IF PLM SERIES NEG)	MATERIAL
			COMP	GRAB							
12	11/7/2019	10:37		X	South side ground level	X					EJC-4 - Black expansion joint compound
13	11/7/2019	11:34		X	north side lower level pedestal	X					M-1 - Fibrous white / orange pedestal mesh
14	11/7/2019	11:35		X	north side lower level pedestal	X					M-1 - Fibrous white / orange pedestal mesh
15	11/7/2019	10:27		X	North side ground level	X			X		T-1 - Black tar pipe
16	11/7/2019	10:27		X	South Side ground level	X					T-1 - Black tar pipe
17	11/7/2019	11:11		X	West Side top level	X			X		T-2 - Hard flexible black tar
18	11/7/2019	11:11		X	West side top level	X					T-2 - Hard flexible black tar
19	11/7/2019	11:09		X	West side top level	X			X		T-3 - Hard black / white flexible tar
20	11/7/2019	11:10		X	West side top level	X					T-3 - Hard black / white flexible tar

**SIGNATURE**  
*Tyler MacGillivray*

**INSPECTOR**  
Tyler Macgillivray, Tyler Noll

<b>Relinquished by: (Signature)</b> <i>Tyler MacGillivray</i>	<b>Date:</b> 11/7/19	<b>Received by: (Signature)</b> <i>[Signature]</i>	<b>Date:</b> 11/7/19	<b>Relinquished by: (Signature)</b>	<b>Received by: (Signature)</b>
(Printed) Tyler MacGillivray	Time: 15:40	(Printed)	Time: 15:40	(Printed)	(Printed)
<b>Remarks:</b> Please send results to SA and EP				<b>Condition of Samples:</b> Yes _____ No _____	
				<b>Comments:</b>	



**BULK ASBESTOS ANALYSIS REPORT**

CLIENT: CT Department of Transportation

Lab Log #: 0054465  
 Project #: 289951.6097.0710  
 Date Received: 11/07/2019  
 Date Analyzed: 11/07/2019

Site: Bridge 00389, 563-565 New London Turnpike, Glastonbury, CT -Revised

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

Sample No.	Color	Homogenous	Multi-Layered	Layer No.	Other Matrix Materials	Asbestos %	Asbestos Type
1	Tan (caulk)	Yes	No	--	---	5%	Chrysotile
2	--	--	--	--	--	NA/PS	--
3	Tan (caulk)	Yes	No	--	---	3%	Chrysotile
4	--	--	--	--	--	NA/PS	--
5	Grey/Black (expansion joint compound)	Yes	No	--	10% cellulose	ND	None
6	Grey/Black (expansion joint compound)	Yes	No	--	10% cellulose	ND	None
7	Grey/Brown (expansion joint compound)	Yes	No	--	30% cellulose	ND	None
8	Grey/Brown (expansion joint compound)	Yes	No	--	30% cellulose	ND	None
9	Black (expansion joint compound)	Yes	No	--	40% cellulose	ND	None
10	Black (expansion joint compound)	Yes	No	--	40% cellulose	ND	None
11	Black (expansion joint compound)	Yes	No	--	20% cellulose	ND	None
12	Black (expansion joint compound)	Yes	No	--	20% cellulose	ND	None
13	White/Orange (pedestal mesh)	Yes	No	--	60% cellulose	ND	None
14	White/Orange (pedestal mesh)	Yes	No	--	60% cellulose	ND	None
15	Black (tar pipe)	Yes	No	--	30% cellulose	ND	None
16	Black (tar pipe)	Yes	No	--	30% cellulose	ND	None
17	Black (tar)	Yes	No	--	---	ND	None

**TRC LABORATORY ASBESTOS ANALYTICAL ACCREDITATIONS**

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

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

ME LA-0075, LB-0071 MA #AA000052  
 AZ #A20944 HI #L-09-004

NY #10980 WV #000622  
 NJ #CT004 CA #2907



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

Sample No.	Color	Homogenous	Multi-Layered	Layer No.	Other Matrix Materials	Asbestos %	Asbestos Type
18	Black (tar)	Yes	No	--	---	ND	None
19	Black/White (tar)	Yes	No	--	---	ND	None
20	Black/White (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: 11/12/2019  
 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 Report

**Batch:** NT 18065  
**Method:** NOB  
**Date Received:** 11/11/2019  
**Date Analyzed:** 11/13/2019  
**Date of Report:** 11/13/2019

**Client Project #:** 289951.6097.0710  
**Client Reference:** CT DOT - Bridge 00389, 563-565 New London Turnpike, Glastonbury, CT  
**PO #:** C289951  
**Client #:** 297  
**Client Name:** TRC Companies, Inc. (CT)

LAB ID	Field ID	Description:	Color	Initial Weight	% Asbestos Types			TRE	% Other (Non-asb.)	% Organic	% Carb.	Total % Asbestos	Analyzed / Charged	Preped / Charged
					CHR	AMO	ACT							
NT135880	5	Grey/Black Expansion Joint Compound		.2646	.26	.00	.00	.00	5.10	91.31	3.59	Yes	No	
NT135881	7	Grey/Brown Expansion Joint Compound		.2214	.00	.00	.00	.00	21.28	70.05	8.67	Yes	No	
NT135882	9	Black Expansion Joint Compound		.2891	.04	.00	.00	.00	2.04	96.13	1.83	Yes	No	
NT135883	11	Black Expansion Joint Compound		.5755	.18	.00	.00	.00	2.19	95.46	2.35	Yes	No	
NT135884	15	Black Tar Pipe		.2655	.00	.00	.00	.00	3.99	94.24	1.77	Yes	No	
NT135885	17	Hard Flexible Black Tar		.3570	.08	.00	.00	.00	16.35	59.22	24.43	Yes	No	
NT135886	19	Hard Black/ White Flexible Tar		1.2261	.00	.00	.00	.00	10.47	78.67	10.86	Yes	No	

**Comments:**

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

*Aimee Cormier*  
 Aimee Cormier, Analyst

## ConnDOT, Bridge 00388, Hartford, , Glastonbury, 06033, CT, US, New London Tpke, 567

Created	2019-11-07 16:46:54 UTC by Tyler MacGillivray
Updated	2019-11-07 20:35:30 UTC by Tyler MacGillivray
Location	41.7069624737293, -72.5971675012937
Status	<span style="color: blue;">■</span> Survey Complete

### Job Information

Site Name	Bridge 00388
Address	567 New London Tpke Glastonbury, CT 06033
TRC Project Number	289951.6897
Project Manager	Erik Plimpton, Stephen Arienti
Inspector(s)	Tyler Macgillivray, 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)	48-hour
TEM Turnaround Time (TAT)	48-hour
Date	2019-11-07

Overview Photo







---

Surveys Performed

Asbestos, Bridge/Signs/Light Pole/Traffic Signal Items, XRF

---

**Asbestos Section**

---

( 2 ), EJC-1, Hard brittle black expansion joint compound , 2

---



Representative Photos



---

**South side top level**

Sample Location	South side top level
Analyze by Layer	No
Asbestos Bulk Analysis	PLM EPA 600/R93/116
Grab or Composite	Grab
Date	2019-11-07
Time	12:38

---

Sample Location Photo



---

### North side top level

Sample Location	North side top level
Analyze by Layer	No
Asbestos Bulk Analysis	PLM EPA 600/R93/116
Grab or Composite	Grab
Date	2019-11-07
Time	12:47

---

Sample Location Photo



---

### Material Information

Sampled or Assumed?	Sampled
Material Acronym	EJC-1
Material Description	Hard brittle black expansion joint compound
Is Material a Non-Friable Organically Bound (NOB)	Yes
Total Count	( 2 )
Total Count (number only)	2

---

( 2 ), EJC-2, Soft black / grey expansion joint compound , 2

---

Representative Photos



---

**West side lower level**

Sample Location	West side lower level
Analyze by Layer	No
Asbestos Bulk Analysis	PLM EPA 600/R93/116
Grab or Composite	Grab
Date	2019-11-07
Time	13:07

---

**East side lower level**

Sample Location	East side lower level
Analyze by Layer	No
Asbestos Bulk Analysis	PLM EPA 600/R93/116
Grab or Composite	Grab
Date	2019-11-07
Time	13:12

Sample Location Photo



---

### Material Information

Sampled or Assumed?	Sampled
Material Acronym	EJC-2
Material Description	Soft black / grey expansion joint compound
Is Material a Non-Friable Organically Bound (NOB)	Yes
Total Count	( 2 )
Total Count (number only)	2

---

**( 2 ), C, 1, Hard white brittle caulk, 2**

---

Representative Photos



**South side top level**

Sample Location	South side top level
Analyze by Layer	No
Asbestos Bulk Analysis	PLM EPA 600/R93/116
Grab or Composite	Grab
Date	2019-11-07
Time	12:40

Sample Location Photo



**North side top level**

Sample Location	North side top level
Analyze by Layer	No
Asbestos Bulk Analysis	PLM EPA 600/R93/116

Grab or Composite	Grab
Date	2019-11-07
Time	15:23

### Material Information

Sampled or Assumed?	Sampled
Material Acronym	C, 1
Material Description	Hard white brittle caulk
Is Material a Non-Friable Organically Bound (NOB)	Yes
Total Count	( 2 )
Total Count (number only)	2

### ( 2 ), C, 2, Soft white railing caulk, 2

Representative Photos



### South side top level

Sample Location	South side top level
Analyze by Layer	No
Asbestos Bulk Analysis	PLM EPA 600/R93/116
Grab or Composite	Grab
Date	2019-11-07
Time	12:42

Sample Location Photo



---

**North side top level**

Sample Location	North side top level
Analyze by Layer	No
Asbestos Bulk Analysis	PLM EPA 600/R93/116
Grab or Composite	Grab
Date	2019-11-07
Time	15:23

---

**Material Information**

Sampled or Assumed?	Sampled
Material Acronym	C, 2
Material Description	Soft white railing caulk
Is Material a Non-Friable Organically Bound (NOB)	Yes
Total Count	( 2 )
Total Count (number only)	2

---

**( 2 ), C, 3, Soft tan caulk, 2**



Representative Photos



---

**South side top level**

Sample Location	South side top level
Analyze by Layer	No
Asbestos Bulk Analysis	PLM EPA 600/R93/116
Grab or Composite	Grab
Date	2019-11-07
Time	12:43

---

**North side top level**

Sample Location	North side top level
Analyze by Layer	No
Asbestos Bulk Analysis	PLM EPA 600/R93/116
Grab or Composite	Grab
Date	2019-11-07
Time	15:23

---

**Material Information**

Sampled or Assumed?	Sampled
Material Acronym	C, 3
Material Description	Soft tan caulk
Is Material a Non-Friable Organically Bound (NOB)	Yes
Total Count	( 2 )
Total Count (number only)	2

**( 2 ), T-1, Soft black pipe tar, 2**

Representative Photos



**West side lower level**

Sample Location	West side lower level
Analyze by Layer	No
Asbestos Bulk Analysis	PLM EPA 600/R93/116
Grab or Composite	Grab
Date	2019-11-07
Time	13:05

Sample Location Photo



---

**East side lower level**

---

Sample Location	East side lower level
Analyze by Layer	No
Asbestos Bulk Analysis	PLM EPA 600/R93/116
Grab or Composite	Grab
Date	2019-11-07
Time	13:08

---

Sample Location Photo



---

**Material Information**

Sampled or Assumed?	Sampled
Material Acronym	T-1
Material Description	Soft black pipe tar
Is Material a Non-Friable Organically Bound (NOB)	Yes
Total Count	( 2 )
Total Count (number only)	2

---

**( 2 ), M-1, White fibrous mesh, 2**

Representative Photos



---

**West side lower level**

Sample Location	West side lower level
Analyze by Layer	No
Asbestos Bulk Analysis	PLM EPA 600/R93/116
Grab or Composite	Grab
Date	2019-11-07
Time	15:22

---

**West side lower level**

Sample Location	West side lower level
Analyze by Layer	No
Asbestos Bulk Analysis	PLM EPA 600/R93/116
Grab or Composite	Grab
Date	2019-11-07
Time	15:22

---

**Material Information**

Sampled or Assumed?	Sampled
Material Acronym	M-1
Material Description	White fibrous mesh
Is Material a Non-Friable Organically Bound (NOB)	No
Total Count	( 2 )
Total Count (number only)	2

## XRF Section

Niton XRF Model No.	25555
XRF Survey Completed	Yes
XRF Data Downloaded	Yes
XRF Shots >1.0 on non-metallic building materials	No
Date Data Downloaded	2019-11-07

## Bridge/Signs/Light Pole/Traffic Signal Items

### Bridge 00388

Bridge/Sign/Light Pole/Traffic Signal No.	Bridge 00388
General Notes	No ladder access on the underside
Accessibility	Accessible
Paint on Structure (s)?	Yes
Paint on what Components/Structure(s)?	Painted railing and I beams
Suspect Asbestos Containing Materials Identified on Structure	Yes
Guano Present?	Yes
Homeless Activity	No
Bloodborne Pathogen Concerns?	No
Mice/Mouse Nests/Droppings	Yes
Mice/Nests/Droppings Locations	North west corner

## General Information

Signature



Signed 2019-11-07 20:24:35 UTC

Asbestos Samples Submitted to TRC Lab	Yes
Date Submitted to Lab	2019-11-07
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?	tmacgillivray@trcsolutions.com
Generate Documents	N/A

## ConnDOT, Bridge 00389, Hartford, , Glastonbury, 06033, CT, US, New London Tpke, 563-565

Created	2019-11-07 15:22:24 UTC by Tyler MacGillivray
Updated	2019-11-07 23:40:51 UTC by Tyler MacGillivray
Location	41.7069334304349, -72.5973198004743
Status	<span style="color: blue;">■</span> Survey Complete

### Job Information

Site Name	Bridge 00389
Address	563-565 New London Tpke Glastonbury, CT 06033
TRC Project Number	289951.6897
Project Manager	Erik Plimpton, Stephen Arienti
Inspector(s)	Tyler Macgillivray, 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)	48-hour
TEM Turnaround Time (TAT)	48-hour
Date	2019-11-07

Overview Photo









**TRC** BSI Daily Job Safety Assessment Briefing

Project Name: 180645 - GOSB & C3314 Project Number: 2185  
 Your Location: BSI DOW DUNLOCH Date: 11-7-19  
 Task Performance: BSI DOW DUNLOCH - LEAD Time: 1:45 PM  
 Client Name: ConDOT JSA Completed By: THOMAS COULU  
 HAZOP Available:  Yes  No  
 Emergency Facility(s): SAFETY PARK 1 EAST PARK PARK Emergency Escalation/Post Location: VEHICLE  
 Physical Address: 35 Oak St. Calhoun Ga. 31702 Number(s): (601) 711-3120  
 First Aid/PPH Staff: \_\_\_\_\_

**For Emergencies Dial 911 - For Non-Emergencies Dial Supervisor First Then WorkCare (888) 446-7777**

Personal Protection Equipment Required	Yes	No	Additional Considerations
Fall Protection	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Work Procedures
Hand/Arm/leg/foot/eye/ear/face/hand/other (specify)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	□ Job clearance (O&A, C&D) □ Down
Eye/Face	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Techniques prevent accidents such as
goggles/face shield/goggles/other (specify)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	□ Public safety □ Pedestrian control □ Experience
SCBA/AirPur. 3' hose N95, other (specify)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	□ Trench/shoring □ Excavation □ Overhead
Respiratory Protection	<input checked="" type="checkbox"/>	<input type="checkbox"/>	□ Confined Space Entry □ Other work areas
(Safety) Job: welder (or read other (specify))	<input checked="" type="checkbox"/>	<input type="checkbox"/>	□ Fall Protection □ Overhead
Head Protection	<input checked="" type="checkbox"/>	<input type="checkbox"/>	□ Repetitive use of tools □ Confined Space
Hand Protection	<input checked="" type="checkbox"/>	<input type="checkbox"/>	□ Trench/shoring □ Excavation □ Overhead
Other (specify)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	□ Confined Space Entry □ Fall Protection
Other (specify)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	□ Bloodborne Pathogens □ Other
Other (specify)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	□ Adipic Acid □ Other
Other (specify)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	□ XRF Radiation Safety □ Other

**If Conditions CHANGE... Stop Work, Review, and Revise the Plan!!**

Page 1 Rev: 10-4-19

**TRC** BSI Daily Job Safety Assessment Briefing

**Potential Hazards Associated with the Job/Task**

Environmental	Struck/Fall	Chemical	Electrical	Mechanical	Empowering common work practices to	Post Task Safety Analysis
<input type="checkbox"/> Air Quality <input type="checkbox"/> Dust <input type="checkbox"/> Noise <input type="checkbox"/> Vibration <input type="checkbox"/> Temperature <input type="checkbox"/> Humidity <input type="checkbox"/> Other	<input type="checkbox"/> Falling Objects <input type="checkbox"/> Falling Persons <input type="checkbox"/> Slips/Trips <input type="checkbox"/> Vehicle/Equipment <input type="checkbox"/> Other	<input type="checkbox"/> Gases <input type="checkbox"/> Liquids <input type="checkbox"/> Solids <input type="checkbox"/> Other	<input type="checkbox"/> Shock <input type="checkbox"/> Arc Flash <input type="checkbox"/> Other	<input type="checkbox"/> Moving Parts <input type="checkbox"/> Rotating Equipment <input type="checkbox"/> Other	<input type="checkbox"/> No set of standards, methods, or procedures <input type="checkbox"/> Other	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Supervisor Signature: [Signature] Date: 11-7-19

Page 2 Rev: 10-4-19

Surveys Performed

Asbestos, XRF, Bridge/Signs/Light Pole/Traffic Signal Items, Hazardous Materials Inventory

## Asbestos Section

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### ( 2 ), C, 1, Tan brittle caulk, 2

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Representative Photos



#### East side top level

Sample Location	East side top level
Analyze by Layer	No
Asbestos Bulk Analysis	PLM EPA 600/R93/116
Grab or Composite	Grab
Date	2019-11-07
Time	11:03

#### West Side top level

Sample Location	West Side top level
Analyze by Layer	No
Asbestos Bulk Analysis	PLM EPA 600/R93/116
Grab or Composite	Grab
Date	2019-11-07
Time	11:03

#### Material Information

Sampled or Assumed?	Sampled
Material Acronym	C, 1
Material Description	Tan brittle caulk
Is Material a Non-Friable Organically Bound (NOB)	Yes

Homogeneous Area	24 railing posts
Total Count	( 2 )
Total Count (number only)	2

**( 2 ), C, 2, Soft tan railing caulk, 2**

**East Side top level**

Sample Location	East Side top level
Analyze by Layer	No
Asbestos Bulk Analysis	PLM EPA 600/R93/116
Grab or Composite	Grab
Date	2019-11-07
Time	14:59

**West side top level**

Sample Location	West side top level
Analyze by Layer	No
Asbestos Bulk Analysis	PLM EPA 600/R93/116
Grab or Composite	Grab
Date	2019-11-07
Time	14:59

**Material Information**

Sampled or Assumed?	Sampled
Material Acronym	C, 2
Material Description	Soft tan railing caulk
Is Material a Non-Friable Organically Bound (NOB)	Yes
Total Count	( 2 )
Total Count (number only)	2

**( 2 ), T-1, Black tar pipe , 2**

Representative Photos



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**North side ground level**

Sample Location	North side ground level
Analyze by Layer	No
Asbestos Bulk Analysis	PLM EPA 600/R93/116
Grab or Composite	Grab
Date	2019-11-07
Time	10:27

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Sample Location Photo



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### South Side ground level

Sample Location	South Side ground level
Analyze by Layer	No
Asbestos Bulk Analysis	PLM EPA 600/R93/116
Grab or Composite	Grab
Date	2019-11-07
Time	10:27

---

Sample Location Photo



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**Material Information**

Sampled or Assumed?	Sampled
Material Acronym	T-1
Material Description	Black tar pipe
Is Material a Non-Friable Organically Bound (NOB)	Yes
Total Count	( 2 )
Total Count (number only)	2

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**( 2 ), T-2, Hard flexible black tar, 2**

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**West side top level**

Sample Location	West side top level
Analyze by Layer	No
Asbestos Bulk Analysis	PLM EPA 600/R93/116
Grab or Composite	Grab
Date	2019-11-07
Time	11:11

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**West Side top level**

Sample Location	West Side top level
Analyze by Layer	No
Asbestos Bulk Analysis	PLM EPA 600/R93/116
Grab or Composite	Grab
Date	2019-11-07

Time 11:11

---

### Material Information

Sampled or Assumed?	Sampled
Material Acronym	T-2
Material Description	Hard flexible black tar
Is Material a Non-Friable Organically Bound (NOB)	Yes
Total Count	( 2 )
Total Count (number only)	2

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### ( 2 ), T-3, Hard black / white flexible tar, 2

Representative Photos



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### West side top level

Sample Location	West side top level
Analyze by Layer	No
Asbestos Bulk Analysis	PLM EPA 600/R93/116
Grab or Composite	Grab
Date	2019-11-07
Time	11:09



Sample Location Photo



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### West side top level

Sample Location	West side top level
Analyze by Layer	No
Asbestos Bulk Analysis	PLM EPA 600/R93/116
Grab or Composite	Grab
Date	2019-11-07
Time	11:10

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Sample Location Photo



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### Material Information

Sampled or Assumed?	Sampled
Material Acronym	T-3
Material Description	Hard black / white flexible tar
Is Material a Non-Friable Organically Bound (NOB)	Yes
Total Count	( 2 )
Total Count (number only)	2

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( 2 ), EJC-1, Grey / black expansion joint compound , 2

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Representative Photos



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**North side ground level**

Sample Location	North side ground level
Analyze by Layer	No
Asbestos Bulk Analysis	PLM EPA 600/R93/116
Grab or Composite	Grab
Date	2019-11-07
Time	10:31

Sample Location Photo



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**North side ground level**

Sample Location	North side ground level
Analyze by Layer	No
Asbestos Bulk Analysis	PLM EPA 600/R93/116
Grab or Composite	Grab
Date	2019-11-07
Time	10:38

**Material Information**

Sampled or Assumed?	Sampled
Material Acronym	EJC-1
Material Description	Grey / black expansion joint compound
Is Material a Non-Friable Organically Bound (NOB)	Yes
Total Count	( 2 )
Total Count (number only)	2

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**( 2 ), EJC-2, Grey / brown brittle expansion joint compound, 2**

Representative Photos



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**North side ground level**

Sample Location	North side ground level
Analyze by Layer	No
Asbestos Bulk Analysis	PLM EPA 600/R93/116
Grab or Composite	Grab
Date	2019-11-07
Time	10:32

Sample Location Photo



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**North side ground level**

Sample Location	North side ground level
Analyze by Layer	No
Asbestos Bulk Analysis	PLM EPA 600/R93/116
Grab or Composite	Grab
Date	2019-11-07
Time	10:37

**Material Information**

Sampled or Assumed?	Sampled
Material Acronym	EJC-2
Material Description	Grey / brown brittle expansion joint compound
Is Material a Non-Friable Organically Bound (NOB)	Yes
Total Count	( 2 )
Total Count (number only)	2

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**( 2 ), EJC-3, Black expansion joint compound , 2**

Representative Photos



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**South side ground level**

Sample Location	South side ground level
Analyze by Layer	No
Asbestos Bulk Analysis	PLM EPA 600/R93/116
Grab or Composite	Grab
Date	2019-11-07
Time	10:35

Sample Location Photo



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**South side ground level**

Sample Location	South side ground level
Analyze by Layer	No
Asbestos Bulk Analysis	PLM EPA 600/R93/116
Grab or Composite	Grab
Date	2019-11-07
Time	10:35

**Material Information**

Sampled or Assumed?	Sampled
Material Acronym	EJC-3
Material Description	Black expansion joint compound
Is Material a Non-Friable Organically Bound (NOB)	Yes
Total Count	( 2 )
Total Count (number only)	2

---

**( 2 ), EJC-4, Black expansion joint compound , 2**



Representative Photos



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**South Side ground level**

Sample Location	South Side ground level
Analyze by Layer	No
Asbestos Bulk Analysis	PLM EPA 600/R93/116
Grab or Composite	Grab
Date	2019-11-07
Time	10:37

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Sample Location Photo



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**South side ground level**

Sample Location	South side ground level
Analyze by Layer	No
Asbestos Bulk Analysis	PLM EPA 600/R93/116
Grab or Composite	Grab
Date	2019-11-07
Time	10:37

**Material Information**

Sampled or Assumed?	Sampled
Material Acronym	EJC-4
Material Description	Black expansion joint compound
Is Material a Non-Friable Organically Bound (NOB)	Yes
Total Approximate Quantity	25 LF
Total Count	( 2 )
Total Count (number only)	2

**( 2 ), M-1, Fibrous white / orange pedestal mesh , 2**

Representative Photos



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**north side lower level pedestal**

Sample Location	north side lower level pedestal
Analyze by Layer	No
Asbestos Bulk Analysis	PLM EPA 600/R93/116
Grab or Composite	Grab
Date	2019-11-07
Time	11:34

Sample Location Photo



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**north side lower level pedestal**

Sample Location	north side lower level pedestal
Analyze by Layer	No
Asbestos Bulk Analysis	PLM EPA 600/R93/116
Grab or Composite	Grab
Date	2019-11-07
Time	11:35

**Material Information**

Sampled or Assumed?	Sampled
Material Acronym	M-1
Material Description	Fibrous white / orange pedestal mesh
Is Material a Non-Friable Organically Bound (NOB)	No
Total Count	( 2 )
Total Count (number only)	2

**XRF Section**

Niton XRF Model No.	25555
XRF Survey Completed	Yes
XRF Data Downloaded	Yes
XRF Shots >1.0 on non-metallic building materials	No
Date Data Downloaded	2019-11-07

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**Bridge/Signs/Light Pole/Traffic Signal Items**

00389

Bridge/Sign/Light Pole/Traffic Signal No.	00389
Accessibility	Accessible
Paint on Structure (s)?	Yes
Paint on what Components/Structure(s)?	Painted railings
Suspect Asbestos Containing Materials Identified on Structure	Yes
Guano Present?	Yes
Guano Locations	Underside abutments
Guano Square Footage	75

Guano Photos



Homeless Activity	No
Bloodborne Pathogen Concerns?	No
Mice/Mouse Nests/Droppings	No

### General Information

Signature

Signed 2019-11-07 20:17:57 UTC

Asbestos Samples Submitted to TRC Lab	Yes
Date Submitted to Lab	2019-11-07
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?	tmacgillivray@trcsolutions.com
Generate Documents	N/A

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STATE OF CONNECTICUT  
DEPARTMENT OF TRANSPORTATION

**subject:** State Bridge Program  
Project No. 53-189  
Bridge No. 00388  
Route 17 NB over Route 17SB Ramp 007 and  
Route 17SB Ramp 007 over New London Turnpike  
Glastonbury

*memorandum*

**date:** January 23, 2017

**to:**

Adam G. Fox  
Transportation Principal Engineer  
Bureau of Engineering and Construction

**from:**

Andrew Cardinali  
Andrew J. Cardinali  
Transportation Supervising Engineer  
Bureau of Engineering and Construction

Digitally signed by Andrew Cardinali  
DN: cn=US, e=andrew.cardinali@dot.gov,  
ou=Connecticut Bridge Design, cn=Andrew  
Cardinali  
Date: 2017.01.19 16:20:51 -0500

Hazardous/Contaminated Materials Screening

This project consists of the following repairs:

- Removal of the superstructure of Bridge No. 00388, and the superstructure and substructure (to the footings) of Bridge No. 00389 (Route 17 SB Ramp 007 over New London Turnpike);
- Filling in of existing Bridge No. 00388 span under Route 17 NB and construction of new roadway to match existing Route 17 NB lane configuration on top of filled span;
- Removal of the at-grade pavement that makes up Route 17 SB Ramp 007 between the Route 17 mainline and the ramp's tie-in to the intersection of New London Turnpike, Williams Street E and Oak Street.
- Reconfigure Route 17 SB Ramp 005 at intersection with New London Turnpike to accommodate left-turning traffic. Add signalization to the intersection. Add a left turn on northbound New London Turnpike at this intersection for traffic turning onto the Route 17 SB On-ramp and widen the roadway in this area to accommodate the left turn lane. Sidewalks will be constructed and crosswalks will be installed to provide sidewalk connectivity along New London Turnpike.
- Install new traffic signal at intersection of New London Turnpike, Oak Street and Williams Street to account for removal of Ramp 007.

Roadway excavation on Route 17 SB Ramp 005 is anticipated for reconfiguration of the ramp intersection with New London Turnpike. Roadway excavation is also anticipated on New London Turnpike for the construction of new sidewalks and the widening of the roadway to accommodate a left turn lane. The pavement of the existing Route 17 SB Ramp 007 will be removed and the area will be prepared for seeding. Excavation will be necessary at Bridge No. 00389 which will be demolished down to the footings and the soil retained by the existing abutments will be regraded.

Additional information is attached for your use in generating the screening evaluation for the subject bridge:

- Location Map
- Limits of Work

Please provide this office with the results of the screening evaluation for use in developing and advancing this project.

A reply by February 27, 2017 for the initial screening would be appreciated. Should a lead investigation or other hazardous material investigation be required, please provide the results, including all special provisions, by February 20, 2018. Time expended for the completion of these activities should be charged to Project No. 53-189. If you have any questions or require additional information, please contact Ms. Dobieslawa A. Kania, Transportation Engineer III, at Ext. 3389.

Attachments

Rachelle L. Clark/rlc/dak

cc: Rabih M. Barakat – Andrew J. Cardinali – Dobieslawa A. Kania

**Project Location Map**

