TRC
21 Griffin Rd. North
Windsor, CT 06095
T 860.298.9692
TRCcompanies.com

April 1. 2019

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: Jason Coite, P.E. / Stephen Clout

Subject: On-Call Asbestos, Lead, Air Quality & Demolition Compliance
Agreement No.: 8.07-01 (18)
HazMat Inspection - Bridge No. 00032, I-95 over MNRR & Local Roads, Stamford, CT
ConnDOT Assignment No. 519-5852
ConnDOT Project No. 135-334
TRC Project No. 289951.5852.0710

Dear Mr. Fox:

TRC performed a limited survey for hazardous building materials associated with the rehabilitation of Bridge No. 00032, I-95 over MNRR & Local Roads in Stamford, Connecticut. Results of the survey identified lead paint to be present on the structural steel/metal bridge components and metal railings of Bridge No. 00032. Results obtained from TCLP waste stream sampling and analysis for leachable lead from the paint on the structural steel/metal bridge components and metal railings characterized the two paint waste streams at Bridge No. 00032 as CTDEEP/RCRA hazardous waste. Light grey barrier caulk, black tar expansion joints, tan abutment rocker paper & black road tar were sampled and found to be non-ACM. No bird/pigeon guano accumulations, hazardous/regulated items or items of bloodborne pathogens (BBP) concern were identified. Associated laboratory data, inspector notes, 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 – Project Manager

Erik R. Plimpton, P.E., CHMM, CMC
Vice President - Program Manager

Lead Based Paint Measurement Summary Table

Device(s): Niton XLP301-A (Serial #24792) X Ray Fluorescence (XRF) Spectrum Analyzer
Site: ConnDOT - Bridge No. 00032, Stamford, CT
Project # : 289951.5852.0710
Date(s): 3/4/2019
Inspectors: Hilton Hernandez

Number	Interior/ Exterior	Location	Bridge No.	Side	Structure	Feature	Material	Color	Condition	Reading (mg/cm^2)	Precision (mg/cm^2)	Depth Index	Duration (sec)	Date/Time
1			**Self Calibration**										148.3	3/4/2019 13:00
2			**3.6 Calibration**							3.6	1.3	1.3	1.0	3/4/2019 13:25
3			**1.6 Calibration**							1.6	0.2	1.2	3.3	3/4/2019 13:25
4			**0.3 Calibration**							0.3	0.1	1.1	5.8	3/4/2019 13:25
5						VOID								
6	Exterior	Stamford	Bridge No. 00032		I Beam		Metal	Green	Intact	0.0	0.0	1.2	6.0	3/4/2019 13:56
7	Exterior	Stamford	Bridge No. 00032		I Beam		Metal	Green	Intact	0.0	0.0	1.0	3.0	3/4/2019 13:56
8	Exterior	Stamford	Bridge No. 00032		I Beam		Metal	Green	Intact	0.0	0.0	1.3	6.3	3/4/2019 13:57
9	Exterior	Stamford	Bridge No. 00032		I Beam		Metal	Green	Intact	0.0	0.1	7.0	2.4	3/4/2019 13:58
10	Exterior	Stamford	Bridge No. 00032		I Beam		Metal	Green	Intact	0.0	0.0	1.0	4.1	3/4/2019 13:58
11						VOID								
12	Exterior	Stamford	Bridge No. 00032		I Beam		Metal	Green	Intact	**0.1**	**0.1**	1.4	2.7	3/4/2019 13:59
13	Exterior	Stamford	Bridge No. 00032		I Beam		Metal	Green	Intact	**0.1**	**0.0**	1.5	3.6	3/4/2019 14:00
14	Exterior	Stamford	Bridge No. 00032		Cross Beam		Metal	Green	Intact	**0.2**	**0.1**	1.6	2.1	3/4/2019 14:01
15	Exterior	Stamford	Bridge No. 00032		Cross Beam		Metal	Green	Intact	0.0	0.0	1.0	4.9	3/4/2019 14:02
16	Exterior	Stamford	Bridge No. 00032		Main Abutement		Metal	Green	Intact	0.0	0.0	1.0	1.4	3/4/2019 14:06
17	Exterior	Stamford	Bridge No. 00032		Main Abutement		Metal	Green	Intact	0.0	0.0	1.6	1.4	3/4/2019 14:06
18	Exterior	Stamford	Bridge No. 00032		Main Abutement		Metal	Green	Intact	0.0	0.0	1.0	0.6	3/4/2019 14:07
19	Exterior	Stamford	Bridge No. 00032		Main Abutement		Metal	Green	Intact	0.0	0.0	1.0	1.4	3/4/2019 14:07
20	Exterior	Stamford	Bridge No. 00032		Cross Beam		Metal	Green	Intact	0.0	0.0	1.0	1.4	3/4/2019 14:08
21	Exterior	Stamford	Bridge No. 00032		Cross Beam		Metal	Green	Intact	0.0	0.0	1.0	1.3	3/4/2019 14:08
22	Exterior	Stamford	Bridge No. 00032		top rail		Metal	Orange	Defective	**4.6**	**0.9**	1.3	1.7	3/4/2019 14:40
23	Exterior	Stamford	Bridge No. 00032		top rail		Metal	Orange	Defective	**8.5**	**4.0**	1.5	0.6	3/4/2019 14:41
24			**3.6 Calibration**	--	--		--	White	Defective	3.2	1.2	1.2	0.8	3/4/2019 18:48
25			**1.6 Calibration**	--	--		--	White	Defective	1.5	0.3	1.1	2.1	3/4/2019 18:48
26			**0.3 Calibration**	--	--		--	White	Defective	0.3	0.1	1.1	3.0	3/4/2019 18:48

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

80 Lupes Drive
Stratford, CT 06615

COMPLETE ENVIRONMENTAL TESTING, INC.

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

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

Analytical Report

CET# 9030092

Report Date:March 11, 2019
Project: CT DOT, I-95 Bridge 00032, Stamford
Project Number: 289951.5852.00710

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

NELAP ACCREDITED TNI LABORATORY

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

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
01	9030092-01	Paint Chip	3/04/2019 12:30	03/06/2019
03	9030092-02	Paint Chip	3/04/2019 14:00	03/06/2019

Analyte: Total Lead [EPA 6020A] **Analyst: SS**

Prep: EPA 3051A **Matrix: Paint Chip**

Laboratory ID	Client Sample ID	Result	RL	Units	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
9030092-01	01	4.6	0.081	%	1	B9C0824	03/08/2019	03/11/2019 12:21	

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
9030092-02	03	250	0.10	mg/L	8	B9C0721	03/07/2019	03/08/2019 14:01	

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

Sincerely,

David Ditta

David Ditta
Laboratory Director

This technical report was reviewed by Robert Blake

R Blake J.

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.

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
EPA 6020A in Solid	
Lead	CT,NY,PA
EPA 6020A in Water	
Lead	CT

Complete Environmental Testing operates under the following certifications and accreditations:

Code	Description	Number	Expires
CT	Connecticut Public Health	PH0116	09/30/2020
NY	New York Certification (NELAC)	11982	04/01/2019
PA	Pennsylvania DEP	68-02927	05/31/2019

9030092

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

Edition: November 2013
Supersede Previous Edition

TCLP CHAIN OF CUSTODY

LAB ID #.

PROJECT NUMBER	PROJECT NAME	PARAMETERS	TURNAROUND TIME
289951.5852.00710	I-95 CTDOT Bridge #00032 Stamford, CT		TCLP Pb: 24hr ☐ 48hr ☒ 3day ☐ 5day Tot. Pb: 24hr ☐ 48hr ☒ 3day ☐ 5day
INSPECTOR: (SIGNATURE)	(PRINTED) Hilton Hernandez		

FIELD SAMPLE NUMBER	DATE	TIME	TYPE COMP	TYPE GRAB	SAMPLE LOCATION	RCRA Pb	RCRA Pb, AS, CR, CD	8 RCRA Metals	TCLP Pb	SPLP Pb	Total Pb	MATERIAL
01	03/04/19	1230		X	Bridge span paint						X	Blue/Green paint
02	"	1235		X	"				X			" (See note below)
03	"	1400		X	Top rail/Barrier paint				X			Red/orange paint

22°

Relinquished by: (Signature)	Date:	Received by: (Signature)	Relinquished by: (Signature)	Date:	Received by: (Signature)
(Printed) Hilton Hernandez	Time: 1530	(Printed) GREG GILDAY 3/6/19 1210	(Printed) GREG GILDAY	3/6/19 Time: 1400	(Printed)

Results to Hilton H. & Steve A. * only analyze #02 if there is any detectable Amount of Pb in sample #01. *

80 Lupes Drive
Stratford, CT 06615

COMPLETE ENVIRONMENTAL TESTING, INC.

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

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

Analytical Report

CET# 9030214

Report Date:March 13, 2019
Project: CT DOT, I-95 Bridge 00032, Stamford
Project Number: 289951.5852.00710

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

NELAP ACCREDITED TNI LABORATORY

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

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
02	9030214-01	Paint Chip	3/04/2019 12:35	03/06/2019

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
9030214-01	02	100	0.013	mg/L	1	B9C1315	03/13/2019	03/13/2019 14:39	

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

Sincerely,

David Ditta
Laboratory Director

This technical report was reviewed by Robert Blake

R Blake J.

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.

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
EPA 6020A in Water	
Lead	CT

Complete Environmental Testing operates under the following certifications and accreditations:

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

9030214

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

Edition: Novem...
Supersede Previous Ea...

TCLP CHAIN OF CUSTODY

LAB ID #.

PROJECT NUMBER	PROJECT NAME	PARAMETERS	TURNAROUND TIME
289951.5852.00710	I-95 CT DOT Bridge #00032 Stamford, CT		TCLP Pb: 24hr 48hr X 3day 5day Tot. Pb: 24hr 48hr X 3day 5day
INSPECTOR: (SIGNATURE)	(PRINTED) Hilton Hernandez		

FIELD SAMPLE NUMBER	DATE	TIME	TYPE COMP	TYPE GRAB	SAMPLE LOCATION	RCRA Pb	RCRA Pb, AS, CR, CD	8 RCRA Metals	TCLP Pb	SPLP Pb	Total Pb	MATERIAL
01	03/04/19	1230		X	Bridge span paint						X	Blue/Green paint
02	"	1235		X	"				X			" (See note below)
03	"	1400		X	Top rail/Barrier paint				X			Red/orange paint

220

Relinquished by: (Signature)	Date:	Received by: (Signature)	Relinquished by: (Signature)	Date:	Received by: (Signature)
	03/05/19	3/6/19		3/6/19	
(Printed) Hilton Hernandez	Time: 1530	(Printed) GREG GILDAY 1210	(Printed) GREG GILDAY	Time: 1400	(Printed)

Results to Hilton H. & Steve A. * only analyze #02 if there is any detectable Amount of Pb in sample #01. *

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

ASBESTOS BULK SAMPLING CHAIN OF CUSTODY

Edition: October 2009
Supersede Previous Edition

LAB ID #. 53435

PROJECT NUMBER	PROJECT NAME	PARAMETERS	TURNAROUND TIME
289951.5852.00710	ConnDOT Conn DOT Stamford Bridge 00032, Stamford, CT		PLM: [ ] 8hr [ ] 24hr [X] 48hr [ ] 3day TEM: [ ] 24hr [X] 48hr [ ] 3day [ ] 5day
SIGNATURE	INSPECTOR		
	Hilton Hernandez		

FIELD SAMPLE NUMBER	DATE	TIME	TYPE COMP	TYPE GRAB	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
1	3/4/19	14:00		X	West ramp	X				X	C1 – Light grey barrier caulk
2	3/4/19	14:01		X	East ramp	X					C1 – Light grey barrier caulk
3	3/4/19	12:43		X	West ramp	X				X	EJ1 – Black Tar expansion joint
4	3/4/19	12:44		X	West Ramp	X					EJ1 – Black Tar expansion joint
5	3/4/19	13:09		X	North abutment rocker paper	X					RP1 – Tan abutment rocker paper
6	3/4/19	13:10		X	North abutment rocker paper	X					RP1 – Tan abutment rocker paper
7	3/4/19	14:03		X	East ramp	X				X	RT1 – Black road tar
8	3/4/19	14:03		X	West ramp	X					RT1 – Black road tar

Relinquished by: (Signature)	Date:	Received by: (Signature)	Relinquished by: (Signature)	Date:	Received by: (Signature)
	03/04/19	3/5/19			
(Printed)	Time:	(Printed)	(Printed)	Time:	(Printed)
Hilton Hernandez	1845	0900			

Remarks: Results to Steve A, and Hilton H., please.

Condition of Samples: ✓
Acceptable: Yes _____ No _____
Comments:

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

TRC
Results you can rely on

BULK ASBESTOS ANALYSIS REPORT

CLIENT: CT Department of Transportation

Lab Log #: 0053435
Project #: 289951.5852.0710
Date Received: 03/05/2019
Date Analyzed: 03/05/2019

Site: Bridge 00032, Stamford, CT

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

Sample No.	Color	Homogenous	Multi-Layered	Layer No.	Other Matrix Materials		Asbestos %	Asbestos Type
1	Light Grey (caulk)	Yes	No	- -		- - -	ND	None
2	Light Grey (caulk)	Yes	No	- -		- - -	ND	None
3	Black (tar expansion joint)	Yes	No	- -	5%	cellulose	ND	None
4	Black (tar expansion joint)	Yes	No	- -	5%	cellulose	ND	None
5	Tan/Orange (rocker paper)	Yes	No	- -	80%	cellulose	ND	None
6	Tan/Orange (rocker paper)	Yes	No	- -	80%	cellulose	ND	None
7	Black (road tar)	Yes	No	- -		- - -	ND	None
8	Black (road 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, 2019. TRC is accredited by the AIHA Laboratory Accreditation Programs (AIHA-LAP), LLC in the Industrial Hygiene Program (IHLAP) for PLM effective through October 1, 2019. 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.

Analyzed by: K. Williamson
Kathleen Williamson, Laboratory Manager

Reviewed by: Cathryn Lemire
Cathryn Lemire, Approved Signatory

Date Issued
03/05/2019

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# LT000411
RI #AAL-007 TX #300354 VT #AL014538 LA#05011 VA #3333 000283 AZ #A20944 HI #L-09-004 NJ #CT004 CA #2907
CO# AL-15020 PHIL# 461 PA#68-03387

NT 17699

Proscience Analytical Services, Inc.

22 Cummings Park, Woburn, MA 01801 Ph. 781-935-3212 Fax 781-932-4857

TEM Bulk Chain of Custody Record

Date: 03/05/19

PO#: **C289951**

Analysis Type: Chatfield **EPA N.O.B** Qualitative

Client: TRC

Client Job#: 289951.5852.0710

Client Job Ref./Loc.: CT DOT- Stamford Bridge 00032, Stamford, CT

Relinquished by: K. Williamson- KWilliamson@trcsolutions.com

Received by: Pamela Kravitt Cole 3/6/19 10:10

Report to: E. Plimpton- EPlimpton@trcsolutions.com & SArienti@trcsolutions.com

Samplers Name: H. Hernandez

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**
1	53435	Caulk	See COC		
3	53435	Expansion Joint Tar			
7	53435	Road Tar			

For Lab Use Only	# Spies	Total	Client #	Batch #	Results Reported	Comments

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 #: 289951.5852.0710
Client Reference: CT DOT - Stamford Bridge 00032, Stamford, CT
PO #: C289951
Client #: 297
Client Name: TRC Environmental Corp. (CT)

Batch: NT 17699
Method: NOB
Date Received: 3/6/2019
Date Analyzed: 3/8/2019
Date of Report: 3/8/2019

LAB ID	Field ID	Description:	Color	Initial Weight	% Asbestos Types						% Other Non-asb.	% Organic	% Carb.	Total % Asbestos	Analyzed / Charged	Preped / Charged
					CHR	AMO	ACT	CRO	ANT	TRE						
NT133194	1	Light Grey Barrier Caulk		.6220	.00	.00	.00	00	.00	.00	51.37	32.15	16.48	ND	Yes	No
NT133195	3	Black Tar Expansion Caulk		.4813	.01	.00	.00	.00	.00	.00	2.26	92.71	5.03	TR	Yes	No
NT133196	7	Black Road Tar		.4538	.00	.00	00	.00	.00	.00	17.19	64.32	18.49	ND	Yes	No

Comments:

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

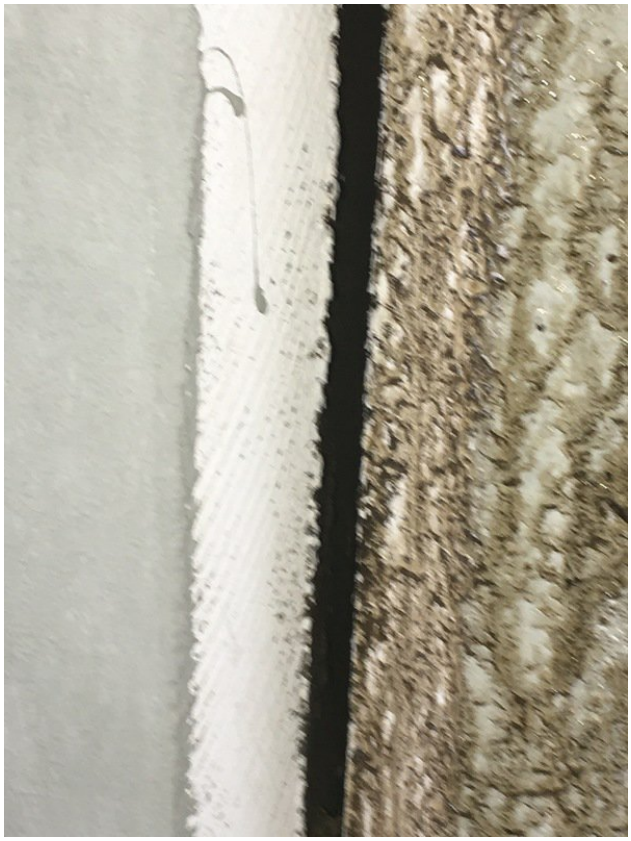
Mark Derosier, Analyst

ConnDOT, Conn DOT Stamford Bridge 00032, Fairfield, , Stamford, 06902, CT, US, Lafayette St, 15

Created	2019-03-04 11:55:10 EST by Carmen Jacko
Updated	2019-04-04 15:07:28 EDT by Stephen Arienti
Location	41.0544973193119, -73.5266038869261
Status	Survey Complete

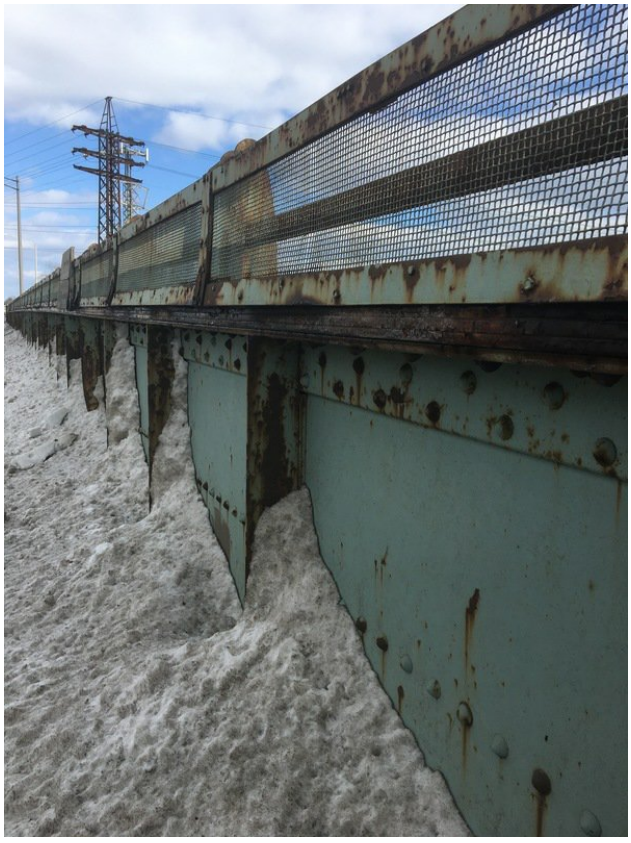
Job Information

Site Name	Conn DOT Stamford Bridge 00032
Address	15 Lafayette St Stamford, CT 06902
TRC Project Number	289951.5852.00710
Project Manager	Erik Plimpton, Stephen Arienti
Inspector(s)	Hilton Hernandez, Carmen Jacko
Client	ConnDOT
Type of Asbestos Survey	Reno/Demo
Additional Analysis for NOB Materials (Calc)	TEM NY NOB 198.4
Date	2019-03-04
Overview Photo	



Caulk N/A

Expansion Join EJ1



Surveys Performed	Asbestos, XRF, Hazardous Materials Inventory

Asbestos Section

(2), EJ1, Black Tar expansion joint , 2

Representative Photos

EJ1

West ramp

Sample Location	West ramp
Analyze by Layer	No
Asbestos Bulk Analysis	PLM EPA 600/R93/116
Grab or Composite	Grab
Date	2019-03-04
Time	12:43

West Ramp

Sample Location	West Ramp
Analyze by Layer	No
Asbestos Bulk Analysis	PLM EPA 600/R93/116
Grab or Composite	Grab
Date	2019-03-04
Time	12:44

Material Information

Sampled or Assumed?	Sampled
Material Acronym	EJ1
Material Description	Black Tar expansion joint

Is Material a Non-Friable Organically Bound (NOB)	Yes
Total Count	(2)
Total Count (number only)	2

(2), RP1, Tan abutment rocker paper, 2

Representative Photos

North abutment rocker paper

Sample Location	North abutment rocker paper
Analyze by Layer	No
Asbestos Bulk Analysis	PLM EPA 600/R93/116
Grab or Composite	Grab
Date	2019-03-04
Time	13:09

North abutment rocker paper

Sample Location	North abutment rocker paper
Analyze by Layer	No
Asbestos Bulk Analysis	PLM EPA 600/R93/116
Grab or Composite	Grab
Date	2019-03-04
Time	13:10

Material Information

Sampled or Assumed?	Sampled
Material Acronym	RP1

Material Description	Tan abutment rocker paper
Is Material a Non-Friable Organically Bound (NOB)	No
Total Count	(2)
Total Count (number only)	2

(2), C, 1, Light grey barrier caulk , 2

Representative Photos

West ramp

Sample Location	West ramp

Analyze by Layer	No
Asbestos Bulk Analysis	PLM EPA 600/R93/116
Grab or Composite	Grab
Date	2019-03-04
Time	14:00

East ramp

Sample Location	East ramp
Analyze by Layer	No
Asbestos Bulk Analysis	PLM EPA 600/R93/116
Grab or Composite	Grab
Date	2019-03-04
Time	14:01

Material Information

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

(2), RT1, Black road tar, 2

Representative Photos

East ramp

Sample Location	East ramp
Analyze by Layer	No
Asbestos Bulk Analysis	PLM EPA 600/R93/116
Grab or Composite	Grab
Date	2019-03-04
Time	14:03

West ramp

Sample Location	West ramp
Analyze by Layer	No
Asbestos Bulk Analysis	PLM EPA 600/R93/116
Grab or Composite	Grab
Date	2019-03-04
Time	14:03

Material Information

Sampled or Assumed?	Sampled
Material Acronym	RT1
Material Description	Black road tar
Is Material a Non-Friable Organically Bound (NOB)	Yes
Total Count	(2)
Total Count (number only)	2

XRF Section

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

General Information

Signature

Signed 2019-03-04 23:22:13 UTC

Asbestos Samples Submitted to TRC Lab	Yes
Date Submitted to Lab	2019-03-04
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.

Where should the document(s) be sent?	sarienti@trcsolutions.com
Generate Documents	N/A

Project No. 135-334
Bridge No. 00032
Town: Stamford

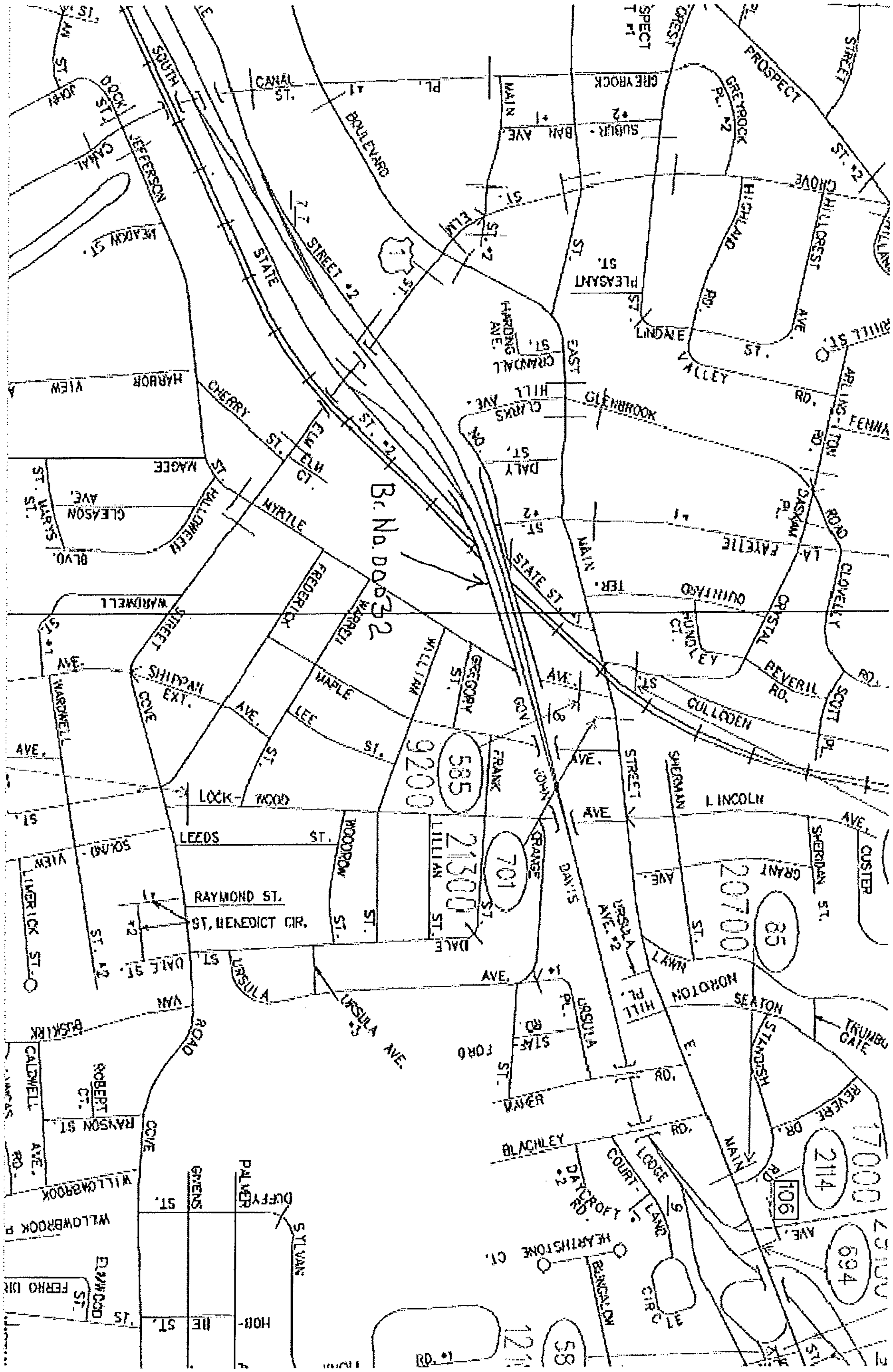
Description:

Bridge No. 00032 carries I-95 and I-95 Ramps over Metro North Railroad and Local Roads in Stamford, Connecticut. This seventeen span bridge consists of steel rolled beams in Spans 1-6 and 8-17 and steel through girder/floorbeam in Span 7 supporting the reinforced concrete deck. The overall length of the structure is 1065 feet with a curb-to-curb measurement of 95 feet. The bridge was originally constructed in 1958 and reconstructed in 1993. A routine inspection of this structure was completed in February 2013, which determined the general condition of the structure to be poor. The bridge is recommended for rehabilitation due to the deck and substructure currently rated as "4", poor condition.

Deck condition including deck ends and joints need some attention. Previous rehabilitation concentration was on the structure and not the deck. The deck needs to be rehabbed. Joint and deck ends are problematic with unusual design feature. Substructure needs attention, specifically pier cap numbers 6 &7. Working over railroad is a problem. Track 4 electrical circuit is connected to the entire rail yard which makes it very difficult to de-energize track 4 without impacting other areas. At this location track 4 & 5 merge and a major interlock located under the bridge.

Purpose:

Bridge deck and substructure inspection ratings are 4, and therefore, bridge rehabilitation is needed.



Br. No. 00032
CANAL ST.
BOULEVARD
SOUTH
JEFFERSON
STATE
STREET
ELM ST.
STATE ST.
PLEASANT ST.
HIGHLAND
HILLCREST
GREYROCK PL.
PROSPECT
GROVE
HARDING AVE.
CRANDALL ST.
EAST
GLENBROOK
LINDALE ST.
VALLEY RD.
ARLINGTON RD.
FENNA
CHERRY ST.
ELM CT.
HARBOR VIEW
MAGEE
GLEASON AVE.
ST. MARYS ST.
HALLOWEEN BLVD.
MYRTLE
CLARKS HILL AVE.
DALY ST.
MAIN
FAYETTE
CLOVERLY
QUINTARD TER.
HUNDLEY CT.
CRYSTAL
REVERIL RD.
SCOTT PL.
CULLODEN
WARDWELL
FREDERICK
WARREN
WILLIAM
GREGORY ST.
MAPLE AVE.
LEE ST.
SHIPPAN EXT.
COVE
FRANK
JOHN
LOCKWOOD
LEEDS ST.
WOODROW
LILLIAN ST.
GRANGE
LINCOLN AVE.
SHERMAN
SHERIDAN ST.
GRANT AVE.
CUSTER
DAVIS
URSULA AVE.
RAYMOND ST.
ST. BENEDICT CIR.
DALE ST.
LIMERICK ST.
SOUND VIEW
URSULA
LAWN
HILL PL.
NOROTON
SEATON
STANDISH
TRUMBULL GATE
REVERE DR.
STAFFORD RD.
MAHER
BLACHLEY RD.
DAYCROFT RD.
COURT
LODGE
LANE
HEARTHSTONE CT.
DUNCAN DR.
CIRCLE
BUSKIRK
CALDWELL AVE.
ROBERT CT.
RANSON ST.
WILLOWBROOK
GIVENS
PALMER
DUFFY
SYLVAN
ELMWOOD ST.
FERRIS DR.
585
9200
701
21300
65
20700
2114
106
694
17000