



August 22, 2016

Mr. Christopher Bonsignore, P.E.
Principal Engineer
Environmental Compliance Section
Bureau of Engineering and Highway Operations
State of Connecticut Department of Transportation
2800 Berlin Turnpike, P.O. Box 317546
Newington, CT 06131-7546

Attention: Judith Nemecek, P.E. / Amie Maines, P.E.

Subject: On-Call Asbestos, Lead, Air Quality & Demolition Compliance
Agreement No. 04.27-01(15)
HazMat Inspection – Bridge No 08012R, MNRR over Atlantic Street, Stamford, CT
ConnDOT Assignment No. 514-5368
ConnDOT Project No. 135-301
TRC Project No. 222165.5368.00710

Dear Mr. Bonsignore:

TRC performed a limited survey for hazardous building materials associated with Bridge No 08012R, MNRR over Atlantic Street in Stamford, Connecticut. Results of the survey identified detectable levels of lead in the paint (1.1-23.0 mg/cm²) associated with the structural steel/metal bridge components at Bridge No. 08012R. Results obtained from TCLP waste stream sampling and analysis for leachable lead from the paint on the structural steel/metal bridge components (270 mg/L) characterized the paint waste stream at Bridge No. 08012R as EPA RCRA/CTDEEP hazardous waste. Lead paint is presently presumed to be on the metal catenary towers and associated wiring. Any paint waste generated from the catenary towers and/or wiring is presumed to be RCRA/CTDEEP hazardous waste. Off white caulking at base of columns and black tar fiberboard between sidewalk/wall sections at the bridge were sampled and found to contain no asbestos. Potential universal waste (UW) and Connecticut Regulated Waste (CRW) halogen mercury light fixtures were also identified on the underside of the bridge. No pigeon/bird guano accumulations were identified at Bridge No. 08012R.

Laboratory data and inspector drawing/notes are attached.

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

Very Truly Yours,

TRC

A handwritten signature in black ink, appearing to read "Erik R. Plimpton".

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

A handwritten signature in black ink, appearing to read "Edmund J. Burke".

Edmund J. Burke, P.E.
Engineer-in-Charge



Lead Based Paint Measurement Summary Table

Device(s): Niton XLP301-A (Serial #25555) X Ray Fluorescence (XRF) Spectrum Analyzer
Site: CT DOT - Atlantic Street Bridge, Bridge No. 08012R, Stamford, CT
Project #: 222165.5271.0710
Date(s): 6/7/2016
Inspector: Chris Gaines (Lead Inspector/RA #002219)

Number	Interior/ Exterior	Location	Bridge No.	Structure	Feature	Material	Color	Condition	Reading (mg/cm2)	Precision (mg/cm2)	Depth Index	Duration (sec)	Date/Time
1			Self-Calibration						0.0	0.0	1.0	96.2	6/7/2016 9:42
2			0.0 calibration						0.7	0.1	1.1	2.9	6/7/2016 9:51
3			0.7 calibration						3.5	0.2	1.3	4.3	6/7/2016 9:51
4			3.6 calibration						5.3	1.3	1.8	14.4	6/7/2016 9:52
5	Exterior	Stamford	Bridge No. 08012R	Girder		Metal	Grey	Defective	15.3	7.6	2.2	5.5	6/7/2016 10:09
6	Exterior	Stamford	Bridge No. 08012R	Girder		Metal	Grey	Defective	19.2	2.1	2.0	1.2	6/7/2016 10:09
7	Exterior	Stamford	Bridge No. 08012R	Girder		Metal	Grey	Defective	20.6	1.4	2.0	5.8	6/7/2016 10:10
8	Exterior	Stamford	Bridge No. 08012R	Girder		Metal	Grey	Defective	11.9	1.9	1.6	11.8	6/7/2016 10:11
9	Exterior	Stamford	Bridge No. 08012R	Bearing		Metal	Grey	Defective	23.0	1.9	2.3	4.6	6/7/2016 10:12
10	Exterior	Stamford	Bridge No. 08012R	Bearing		Metal	Grey	Defective	19.1	1.9	2.3	7.5	6/7/2016 10:12
11	Exterior	Stamford	Bridge No. 08012R	Bearing		Metal	Grey	Defective	1.1	0.4	1.3	6.9	6/7/2016 10:14
12	Exterior	Stamford	Bridge No. 08012R	Bearing		Metal	Grey	Defective	3.5	0.9	1.6	1.4	6/7/2016 10:14
13	Exterior	Stamford	Bridge No. 08012R	Bearing		Metal	Grey	Defective	8.7	1.6	2.1	4.9	6/7/2016 10:15
14	Exterior	Stamford	Bridge No. 08012R	Bearing		Metal	Grey	Defective	17.9	1.8	2.2	6.9	6/7/2016 10:16
15	Exterior	Stamford	Bridge No. 08012R	Girder		Metal	Grey	Defective	16.4	1.5	1.9	8.7	6/7/2016 10:16
16	Exterior	Stamford	Bridge No. 08012R	Girder		Metal	Grey	Defective	18.5	1.7	2.7	8.1	6/7/2016 10:17
17	Exterior	Stamford	Bridge No. 08012R	Girder		Metal	Grey	Defective	0.0	0.0	2.8	10.6	6/7/2016 10:32
18			0.0 calibration						0.6	0.1	1.0	3.7	6/7/2016 10:32
19			0.7 calibration						3.7	0.2	1.3	10.4	6/7/2016 10:33
20			3.6 calibration										



Client: Mr. Chris Gaines
TRC Environmental Consultants
21 Griffin Rd., North
Windsor, CT 06095

Analytical Report

CET# 6060303

Report Date: June 14, 2016
Project: CTDOT
Project Number: Atlantic Bridge, Htfd 1428D
PO Number: 222165.5369.0710/5368.0710

Connecticut Laboratory Certificate: PH 0116
Massachusetts laboratory Certificate: M-CT903



New York Certification: 11982
Rhode Island Certification: 199

CET # : 6060303

Project: CTDOT

Project Number: Atlantic Bridge, Htfd 1428D

SAMPLE SUMMARY

The sample(s) were received at 23.6°C.

This report contains analytical data associated with following samples only.

Sample ID	Laboratory ID	Matrix	Collection Date/Time	Receipt Date
01	6060303-01	Paint Chip	6/07/2016 11:02	06/09/2016
02	6060303-02	Paint Chip	6/08/2016 10:08	06/09/2016
03	6060303-03	Paint Chip	6/08/2016 11:10	06/09/2016

Analyte: Total Lead [EPA 6010C]

Analyst: SS

Prep: EPA 3050B

Matrix: Paint Chip

Laboratory ID	Client Sample ID	Result	RL	Units	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
6060303-03	03	ND	0.10	%	1	B6F1308	06/13/2016	06/14/2016 15:04	

Analyte: TCLP Lead [EPA 6010C]

Analyst: SS

Prep: EPA 3005A-1311

Matrix: Extract

Laboratory ID	Client Sample ID	Result	RL	Units	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
6060303-01	01	270	0.013	mg/L	1	B6F1413	06/14/2016	06/14/2016 15:17	
6060303-02	02	1.3	0.013	mg/L	1	B6F1413	06/14/2016	06/14/2016 15:22	

CET # : 6060303

Project: CTDOT

Project Number: Atlantic Bridge, Htfd 1428D

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

Report Comments:

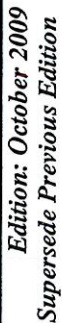
Sample Result Flags:

- 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- The Analyte exceeds %RSD limits for the Initial Calibration. This is a non-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.

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 the specified detection limit
All analyses were performed in house unless a Reference Laboratory is listed.
Samples will be disposed of 30 days after the report date.



ASBESTOS BULK SAMPLING CHAIN OF CUSTODY

Relinquished by: (Signature) <i>Chris Davis</i>	Date: <i>6-7-16</i>	Received by: (Signature) <i>Cathy L. Davis</i>	Relinquished by: (Signature)	Date:	Received by: (Signature)
(Printed) <i>Chris Davis</i>	Time: <i>1915</i>	(Printed) <i>Cathy L. Davis</i>	(Printed)	Time:	(Printed)
Remarks:			Condition of Samples: _____ Acceptable: Yes ☒ No ☐ Comments:		

Page 1 of 7



BULK ASBESTOS ANALYSIS REPORT

CLIENT: CT Department of Transportation

Lab Log #: 0048194
Project #: 222165.5368.0710
Date Received: 06/08/2016
Date Analyzed: 06/09/2016

Site: Atlantic Street Bridge #8012R, 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	White	Yes	No	--	---	ND	None
2	White	Yes	No	--	---	ND	None
3	Black	Yes	No	--	80% cellulose	ND	None
4	Black	Yes	No	--	80% cellulose	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, 2016. TRC is accredited by the AIHA Laboratory Accreditation Programs (AIHA-LAP), LLC in the Industrial Hygiene Program (IHLAP) for PLM effective through October 1, 2016. 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
Kathleen Williamson, Laboratory Manager

Reviewed by:

Margaret Flanagan
Margaret Flanagan, Approved Signatory

Date Issued

06/09/2016

TRC LABORATORY ASBESTOS ANALYTICAL ACCREDITATIONS

NVLAP Lab Code 101424-0
RI #AAL-007 TX #300354
CO# AL-15020

AIHA-LAP, LLC #100122 CT #PH-0426
VT #AL014538 LA#05011 VA #3333 000283
PHIL# 461 PA#68-03387

ME LA-0075, LB-0071
AZ #A20944

MA #AA000052
HI #L-09-004

NY #10980 WV# LT000411
NJ #CT004 CA #2907

NT 15872

TEM Bulk Chain of Custody Record

PO#: C222165

Client Job#: 222165.5368.0710

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

0116 10:00 AM

E. Plimpton – EPlimpton@trcsolutions.com & SArienti@trcsolutions.com

C. Gaines

EPA N.O.B Qualitative

Other:

For Lab Use Only						
Client ID #	Lab ID#	Description	Location	Acceptable on Receipt	Comments	
02	48194	Caulk	See COC			
04	48194	Tar Fiber Board				
					</	

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 #: 222165.5368.0710
Client Reference: CT DOT - Atlantic St Bridge #8012R, Stamford, CT
PO #: C222165
Client #: 297
Client Name: TRC Environmental Corp. (CT)

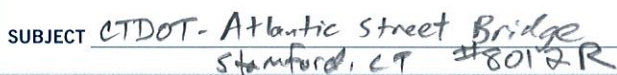
Batch: NT 15872
Method: NOB
Date Received: 6/10/2016
Date Analyzed: 6/13/2016
Date of Report: 6/13/2016

TMC Environmental Corp. (C-7)																	
Client Name:																	
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							
NT120707 02		Off white hard caulk		.5542	.00	.00	.00	.00	.00	.00	.00	16.26	56.06	27.68	ND	Yes	No
NT120708 04		Tar fiber board		.3415	.00	.00	.00	.00	.00	.00	.00	30.05	60.26	9.69	ND	Yes	No

Comments:

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


Aimee Cormier, Analyst



CHK'D



SHEET NO. _____ OF _____

PROJECT NO. _____

DATE 6-7-16

BY CG / RB / MS

CHK'D _____



SUBJECT CTDOT - Atlantic St. Bridge
Stamford, CT #601212

ACM List

- C1 - off white hard caulk @ base of columns (3'x3' column base)
- T1 - board between sidewalk & stone base supports for columns

Haz List

- 15 halogen lights under bridge

