



April 26, 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: A. Fox, P.E. / R. Levesque, P.E.

Subject: On-Call Asbestos, Lead, Air Quality & Demolition Compliance
Agreement No. 04.27-01(15)
HazMat Inspection - Bridge No. 01765, I-84 EB over Amtrak & Local Roads, Hartford,
CT
ConnDOT Assignment No. 514-5228
ConnDOT Project No. 63-700
TRC Project No. 222165.5228.0710

Dear Mr. Bonsignore:

TRC performed a limited survey for hazardous building materials associated with the rehabilitation of Bridge No. 01765 in Hartford, Connecticut. Results of the survey identified lead paint to be present on the structural steel/metal bridge components ($1.2 \text{ mg/cm}^2 - 11.7 \text{ mg/cm}^2$) of Bridge No. 01765. Results obtained from TCLP waste stream sampling and analysis for leachable lead from the paint on the structural steel/metal bridge components (130 mg/L) characterized the paint waste stream at Bridge No. 01765 as EPA RCRA/CTDEEP hazardous waste. Brown/beige joint caulking on the abutment wall was sampled and found to contain asbestos. No bird/pigeon guano accumulations were observed around in accessible areas of the bridge. Homeless activity was observed at Bridge No. 01765, including but not limited to bedding and trash with potential for sharps which could contain blood borne pathogens. Associated laboratory data, project description, site map and site photos 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 "E. Burke".

E. Burke, P.E.
Engineer in Charge



Lead Based Paint Measurement Summary Table

Device(s): Niton XLP301-A (Serial #24792) X Ray Fluorescence (XRF) Spectrum Analyzer													
Site: DOT Bridge #1765 Hartford, CT													
Project #: 222165.5228.00710													
Date(s): 1/28/2016													
Inspector: Bryce Aston (Lead Inspector #001838)													
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									210.71	1/27/2016 9:59
2			Self Calibration						1.5	0.0		218.12	1/28/2016 11:33
3			3.6 Calibration						4.1	0.4	1.4	4.45	1/28/2016 11:34
4			1.5 Calibration						1.7	0.2	1.2	5.37	1/28/2016 11:35
5			0.3 Calibration						0.3	0.1	1.0	5.18	1/28/2016 11:35
6	Exterior	Hartford	Bridge No. 01765	Main I-Beam		Metal	Gray	Defective	11.7	2.4	2.1	4.64	1/28/2016 11:47
7	Exterior	Hartford	Bridge No. 01765	Main I-Beam		Metal	Gray	Defective	6.8	2.0	1.8	4.63	1/28/2016 11:47
8	Exterior	Hartford	Bridge No. 01765	Cross Beam		Metal	Gray	Defective	8.1	1.8	2.0	5.93	1/28/2016 11:48
9	Exterior	Hartford	Bridge No. 01765	Cross Beam		Metal	Gray	Defective	11.3	2.3	2.0	4.81	1/28/2016 11:49
10	Exterior	Hartford	Bridge No. 01765	Bearing Pad		Metal	Gray	Defective	1.2	0.2	1.8	6.48	1/28/2016 11:50
11	Exterior	Hartford	Bridge No. 01765	Bearing Pad		Metal	Gray	Defective	3.2	0.5	1.8	3.34	1/28/2016 11:50
12			3.6 Calibration						3.6	0.4	1.3	4.43	1/28/2016 12:25
13			0.3 Calibration						0.3	0.1	1.0	5.2	1/28/2016 12:25
14			3.6 Calibration						3.5	0.4	1.2	4.62	1/28/2016 12:26

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

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# 6010522

Report Date: February 03, 2016
Project: CTDOT
Project Number: DOT Bridge 1765
PO Number: 222165-5228-0710

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



New York Certification: 11982
Rhode Island Certification: 199

CET #: 6010522

Project: CTDOT

Project Number: DOT Bridge 1765

SAMPLE SUMMARY

The sample(s) were received at 14.7°C.

This report contains analytical data associated with following samples only.

Sample ID	Laboratory ID	Matrix	Collection Date/Time	Receipt Date
1 Bridge 1765	6010522-01	Paint Chip	1/28/2016 11:00	01/29/2016

Analyte: TCLP Lead [EPA 6020A]

Analyst: ICAPQ

Prep: EPA 3005A-1311

Matrix: Extract

Laboratory ID	Client Sample ID	Result	RL	Units	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
6010522-01	1 Bridge 1765	130	0.013	mg/L	1	B6B0210	02/02/2016	02/02/2016 14:05	

CET # : 6010522

Project: CTDOT

Project Number: DOT Bridge 1765

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.

CET # : 6010522
Project: CTDOT
Project Number: DOT Bridge 1765

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
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No certified Analyses included in this Report

Complete Environmental Testing operates under the following certifications and accreditations:

Code	Description	Number	Expires
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BULK ASBESTOS ANALYSIS REPORT

CLIENT: CT Department of Transportation

Lab Log #: 0047491
Project #: 222165.5228.0710
Date Received: 01/28/2016
Date Analyzed: 01/29/2016

Site: Bridge #1765, Hartford, CT

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

Sample No.	Color	Homogenous	Multi-Layered	Layer No.	Other Matrix Materials	Asbestos %	Asbestos Type
01	Brown/Beige	Yes	No	--	---	3%	Chrysotile
02	--	--	--	--	--	NA/PS	--

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), and the EPA recommended Method for the Determination of Asbestos in Bulk Building Materials (EPA/600/R-93/116), July 1993, R.L. Perkins and B.W. Harvey which utilizes 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 an American Industrial Hygiene Association (AIHA) accredited lab 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 the QC data related to the samples is available upon written request from the 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: Aud Park **Date Issued**
Kathleen Williamson, Laboratory Manager Amanda Parkins, Approved Signatory 01/29/2016

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

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

subject: State Bridge Program
State Project No. 63-700
Bridge No. 01765
Interstate 84 EB over Amtrak and Local Roads
Hartford

5228

memorandum

to:

Mr. Gregory M. Dorosh
Transportation Principal Engineer
Bureau of Engineering and Construction

date:

November 5, 2014

from:

David A. Cutler
Transportation Supervising Engineer
Bureau of Engineering and Construction

Hazardous/Contaminated Materials Screening

This project consists of the following repairs:

- Partial and full depth deck patching and embedded zinc anodes
- Placement of a new waterproofing membrane and overlay
- Installation of new asphaltic plug joints in 4 locations and silicone deck joints in 7 locations
- Replacement of all expansion bearings with elastomeric bearings
- Removal of wide concrete haunches over roadways, the parking lot and railroad
- Structural steel web repairs at girder ends, hinges and pin and hanger assemblies
- Substructure patching and pedestal repairs
- Painting at the end 3' of girders and spot painting at pin and hanger assemblies and deteriorated flanges
- Modification of the existing concrete parapets and removal of the steel bridge rail
- Cleaning of the scuppers and repairs to broken weep pipes and downspouts
- Installation of bird spikes over the piers

No excavation is anticipated for the rehabilitation work on Bridge No. 01765.

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 December 5, 2014 would be appreciated. If you have any questions or require additional information, please contact Mr. Andrew J. Cardinali, Transportation Engineer III, at Ext. 3315.

Attachments

Tracey A. Brais / tab

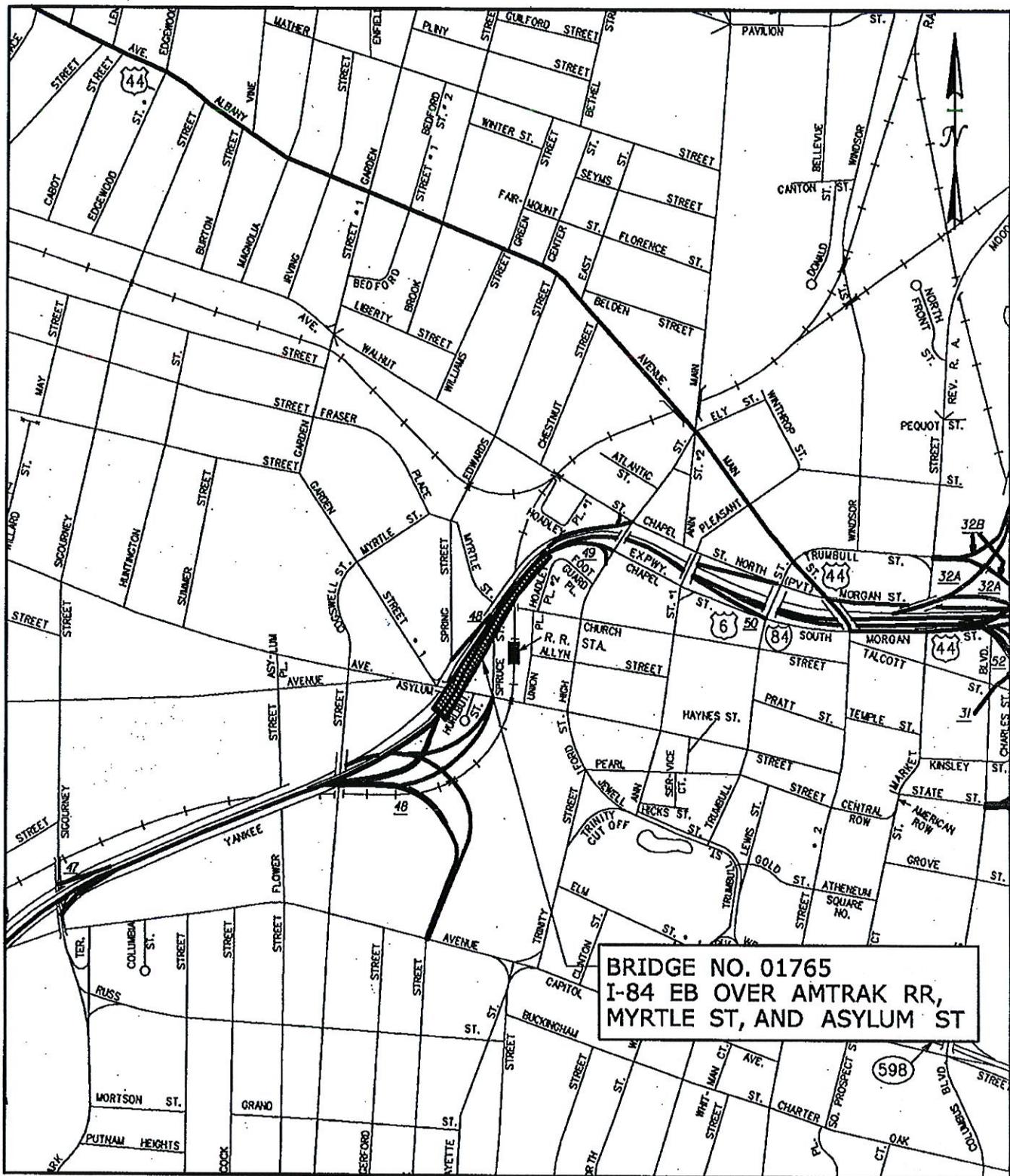
cc: Timothy D. Fields – David A. Cutler – Andrew J. Cardinali
Jacob J. Argiro – Donald P. Wurst (CME)

RECEIVED

NOV 17 2014

Division of Environmental Compliance

11/18/14



BRIDGE NO. 01765
I-84 EB OVER AMTRAK RR,
MYRTLE ST, AND ASYLUM ST

SCALE IN FEET



STATE PROJECT NO.:

63-700

CITY/TOWN:

HARTFORD



STATE OF CONNECTICUT
 DEPARTMENT OF TRANSPORTATION



CME Associates, Inc.
 CONSULTING ENGINEERS &
 ENVIRONMENTAL PLANNERS
 135 E. RIVER DR., SUITE 400
 EAST HARTFORD, CT 06108

DATE:

08/2014

SHEET NO.:

1 OF 2



PHOTO 1
Bridge #01765 Side View



PHOTO 2
Bridge #01765 Underside View with Trash