



January 24, 2018

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. / Mandy Socolosky

Subject: On-Call Asbestos, Lead, Air Quality & Demolition Compliance
Agreement No. 04.27-01(15)
HazMat Inspection - Bridge No. 00255, I-395 over Route 85, Waterford, CT
ConnDOT Assignment No. 514-5699
ConnDOT Project No. 152-158
TRC Project No. 222165.5699.0710

Dear Mr. Fox:

TRC performed a limited survey for hazardous building materials associated with the rehabilitation of Bridge No. 00255, I-395 over Route 85 in Waterford, Connecticut. Results of the survey identified lead paint to be present on the structural steel/metal bridge components of Bridge No. 00255. The railings were identified as galvanized (unpainted). Results obtained from TCLP waste stream sampling and analysis for leachable lead from the paint on the structural steel/metal bridge components characterized the paint waste stream at Bridge No. 00255 as CTDEEP/RCRA hazardous waste. At Bridge No. 00255, the black expansion joint material (EJ1) between the parapet wall sections & wing walls was sampled and found to contain asbestos. Grey rubbery caulking on the topside of the bridge and grey metallic caulking under the guardrail pedestals were also sampled and no detectable levels of asbestos were identified. Two (2) potential universal waste (UW) and Connecticut Regulated Waste (CRW) luminaire light fixtures were attached to the underside of the bridge. Bird/pigeon guano accumulations were observed in accessible areas of the bridge. No items of bloodborne pathogens (BBP) concern were identified. Associated laboratory data, inspector notes, project descriptions and site maps 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 "Stephen R. Arienti".

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

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

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



Lead Based Paint Measurement Summary Table

Device(s): Niton XLP301-A (Serial #7709) X Ray Fluorescence (XRF) Spectrum Analyzer
 Site: ConnDOT - Bridge No. 00255, I-395 over Route 85, Waterford, CT
 Project #: 222165.5699.0710
 Date(s): 12/22/2017
 Inspectors: David Webster (CTDPH License #002233)

| 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 | | | | | | | | | | 150.5 | 12/22/2017 11:11 |
| 2 | | | 0.0 Calibration | | | | | | | 0.0 | 0.0 | 1.0 | 2.8 | 12/22/2017 11:14 |
| 3 | | | 0.7 Calibration | | | | | | | 0.7 | 0.1 | 1.2 | 3.9 | 12/22/2017 11:14 |
| 4 | | | 1.6 Calibration | | | | | | | 1.6 | 0.3 | 1.1 | 2.8 | 12/22/2017 11:15 |
| 5 | Exterior | Waterford | Bridge No. 00255 | | Girder | | Metal | Grey | Defective | 6.3 | 4.6 | 2.1 | 1.6 | 12/22/2017 11:17 |
| 6 | Exterior | Waterford | Bridge No. 00255 | | Girder | | Metal | Grey | Defective | 8.6 | 1.9 | 2.1 | 4.4 | 12/22/2017 11:17 |
| 7 | Exterior | Waterford | Bridge No. 00255 | | Girder | | Metal | Grey | Defective | 6.0 | 3.3 | 1.8 | 0.7 | 12/22/2017 11:18 |
| 8 | Exterior | Waterford | Bridge No. 00255 | | Girder | | Metal | Grey | Defective | 6.9 | 4.2 | 1.8 | 2.1 | 12/22/2017 11:19 |
| 9 | Exterior | Waterford | Bridge No. 00255 | | Rocker Pad | | Metal | Grey | Defective | 0.2 | 0.2 | 2.9 | 3.0 | 12/22/2017 11:21 |
| 10 | Exterior | Waterford | Bridge No. 00255 | | Rocker Pad | | Metal | Grey | Defective | 0.1 | 0.2 | 1.0 | 0.5 | 12/22/2017 11:24 |
| 11 | Exterior | Waterford | Bridge No. 00255 | | Rocker Pad | | Metal | Grey | Defective | 8.5 | 4.6 | 2.1 | 0.9 | 12/22/2017 11:25 |
| 12 | Exterior | Waterford | Bridge No. 00255 | | Rocker Pad | | Metal | Grey | Defective | 9.7 | 5.0 | 2.4 | 1.9 | 12/22/2017 11:25 |
| 13 | | | 0.0 Calibration | | | | | | | 0.0 | 0.0 | 1.0 | 3.0 | 12/22/2017 11:27 |
| 14 | | | | | VOID | | | | | | | | | |
| 15 | | | 0.7 Calibration | | | | | | | 0.7 | 0.2 | 1.2 | 2.5 | 12/22/2017 11:28 |
| 16 | | | 1.6 Calibration | | | | | | | 1.7 | 0.4 | 1.2 | 2.3 | 12/22/2017 11:28 |

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



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# 7120729

Report Date: December 29, 2017
Project: CTDOT
Project Number: Bridge 0255, Waterford
PO Number: 222165.5699.0710

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



New York NELAP Accreditation: 11982
Rhode Island Certification: 199

CET # : 7120729

Project: CTDOT

Project Number: Bridge 0255, Waterford

SAMPLE SUMMARY

The sample(s) were received at 20.0°C.

This report contains analytical data associated with following samples only.

| Sample ID | Laboratory ID | Matrix | Collection Date/Time | Receipt Date |
|------------------------|---------------|------------|----------------------|--------------|
| 1 Steel Girders/Rocker | 7120729-01 | Paint Chip | 12/22/2017 11:15 | 12/27/2017 |

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 |
|---------------|---------------------------|--------|-------|-------|----------|---------|------------|-----------------------|-------|
| 7120729-01 | 1 Steel Girders/Rocker | 570 | 0.013 | mg/L | 1 | B7L2823 | 12/28/2017 | 12/28/2017 17:29 | |

CET #: 7120729

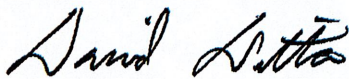
Project: CTDOT

Project Number: Bridge 0255, Waterford

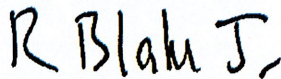
All questions related to this report should be directed to David Ditta, Timothy Fusco, or Robert Blake at 203-377-9984.

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- 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.

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

RL is the Reporting 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 # : 7120729

Project: CTDOT

Project Number: Bridge 0255, Waterford

CERTIFICATIONS

Certified Analyses included in this Report

| Analyte | Certifications |
|---------|----------------|
|---------|----------------|

EPA 6020A in Water

| | |
|------|-------|
| Lead | NY,CT |
|------|-------|

Complete Environmental Testing operates under the following certifications and accreditations:

| Code | Description | Number | Expires |
|------|--------------------------------|--------|------------|
| CT | Connecticut Public Health | PH0116 | 09/30/2018 |
| NY | New York Certification (NELAC) | 11982 | 04/01/2018 |



***Edition: November 2013
Supersede Previous Edition***

ICLP CHAIN OF CUSTODY

LAB ID #.

PROJECT NAME GTDOT

PARAMETERS

TURNAROUND TIME

Bridge 0355, Waterford, CT

(PRINTED)

Cathryn Lomire

RCRA Pb

**RCRA Pb, AS, CR,
CD**

8 RCRA Metals

TCLP Pb

SPLP Pb

MATERIAL

| | | | | |
|-------|------|---|------|------|
| 224hr | 48hr | X | 3day | 5day |
| 24hr | 48hr | | 3day | 5day |

FIELD
SAMPLE
NUMBER

DATE _____

TIME

| | |
|------|------|
| COMP | TYPE |
| GRAB | |

SAMPLE LOCATION

| | |
|----------|------|
| 12/22/17 | 1115 |
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ee/Gardas/Bocker

X

Creep Point

Relinquished by: (Signature)

Date: _____

Received by: (Signature)

Relinquished by: (Signature)

Date: _____

Received by: (Signature)

(Printed)

Time:

(Printed)

10

(Printed)

141

(Printed)

Customer Service

1504

GARCIA GILMAN

1

GNAC Group

183

please email edlinton@trcsolutions.com and Sanenti@trcsolutions.com

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

ASBESTOS BULK SAMPLING CHAIN OF CUSTODY

LAB ID#.

[illegible]

| | | | | | | | |
|--|--|--|--|-------------------|-------------------|--|--|
| Relinquished by: (Signature) <i>David Webster</i> | Received by: (Signature) <i>David Webster</i> | Relinquished by: (Signature) <i>David Webster</i> | Received by: (Signature) <i>David Webster</i> | Date: 12-22-17 | Date: 12-22-17 | Received by: (Signature) <i>David Webster</i> | Received by: (Signature) <i>David Webster</i> |
| (Printed) David Webster | (Printed) David Webster | (Printed) David Webster | (Printed) David Webster | Time: 1130 | Time: 1309 | (Printed) David Webster | (Printed) David Webster |
| Remarks: Condition of Samples: <i>1</i> No. <i>1000</i> Acceptable: Yes <i>1</i> No <i>1000</i> Comments: | | | | | | | |



BULK ASBESTOS ANALYSIS REPORT

CLIENT: CT Department of Transportation

Lab Log #: 0051724
Project #: 222165.5699.0710
Date Received: 12/26/2017
Date Analyzed: 01/02/2018

Site: Bridge 00255

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

| Sample No. | Color | Homogenous | Multi-Layered | Layer No. | Other Matrix Materials | Asbestos % | Asbestos Type |
|------------|-------------------------|------------|---------------|-----------|------------------------|------------|---------------|
| 1 | Black (expansion joint) | Yes | No | -- | --- | ND | None |
| 2 | Black (expansion joint) | Yes | No | -- | --- | ND | None |
| 3 | Light Grey (caulk) | Yes | No | -- | --- | ND | None |
| 4 | Light Grey (caulk) | Yes | No | -- | --- | ND | None |
| 5 | Light Grey (caulk) | Yes | No | -- | --- | ND | None |
| 6 | Light Grey (caulk) | 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, 2018. TRC is accredited by the AIHA Laboratory Accreditation Programs (AIHA-LAP), LLC in the Industrial Hygiene Program (IHLAP) for PLM effective through October 1, 2018. 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:

Cathryn Lemire, Laboratory Analyst

Reviewed by:

Kathleen Williamson, Laboratory Manager

Date Issued

01/02/2018

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

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

NT16971

| | | | |
|----------------|-----------|-----------|-------------|
| Analysis Type: | Chatfield | EPA N.O.B | Qualitative |
|----------------|-----------|-----------|-------------|

PO#: C222165

Client: TRC

Client Job#: 222165.5699.0710

Client Job Ref./Loc.: CT DOT- Bridge 00255

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

Received by: Steven Tomber 1/2/18 9:05

Report to: **E. Plimpton-EPlimpton@trcsolutions.com & S. Arienti@trcsolutions.com**

Samplers Name: D. Webster

| Turn Around Time: | <12 Hour | <24 Hour | <48 Hour | <3 Day | 5 Day | Other: |
|-------------------|----------|----------|----------|--------|-------|--------|
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| | | | | | | For Lab Use Only | |
|-------------|---------|-----------------|----------|-----------------------|----------|------------------|--|
| Client ID # | Lab ID# | Description | Location | Acceptable on Receipt | Comments | | |
| 2 | 51724 | Expansion Joint | See COC | | | | |
| 4 | 51724 | Caulk | | | | | |
| 6 | 51724 | Caulk | | | | | |
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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 #: 222165.5699.0710
Client Reference: CT DOT - Bridge 00255
PO #: C222165
Client #: 297
Client Name: TRC Environmental Corp. (CT)

Batch: NT 16971
Method: NOB
Date Received: 1/2/2018
Date Analyzed: 1/5/2018
Date of Report: 1/5/2018

| 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 | | | | | |
| NT128288 | 2 | Black Expansion Joint | | .9303 | 3.37 | .00 | .00 | .00 | .00 | .00 | 30.29 | 63.66 | 3.37 | Yes | No |
| NT128289 | 4 | Lt Grey Rubbery Caulk | | .6821 | .00 | .00 | .00 | .00 | .00 | .00 | 48.55 | 39.35 | 12.10 | ND | Yes |
| NT128290 | 6 | Lt Grey Caulk | | 1.1154 | .00 | .00 | .00 | .00 | .00 | .00 | 99.25 | .46 | .29 | ND | Yes |

Comments:

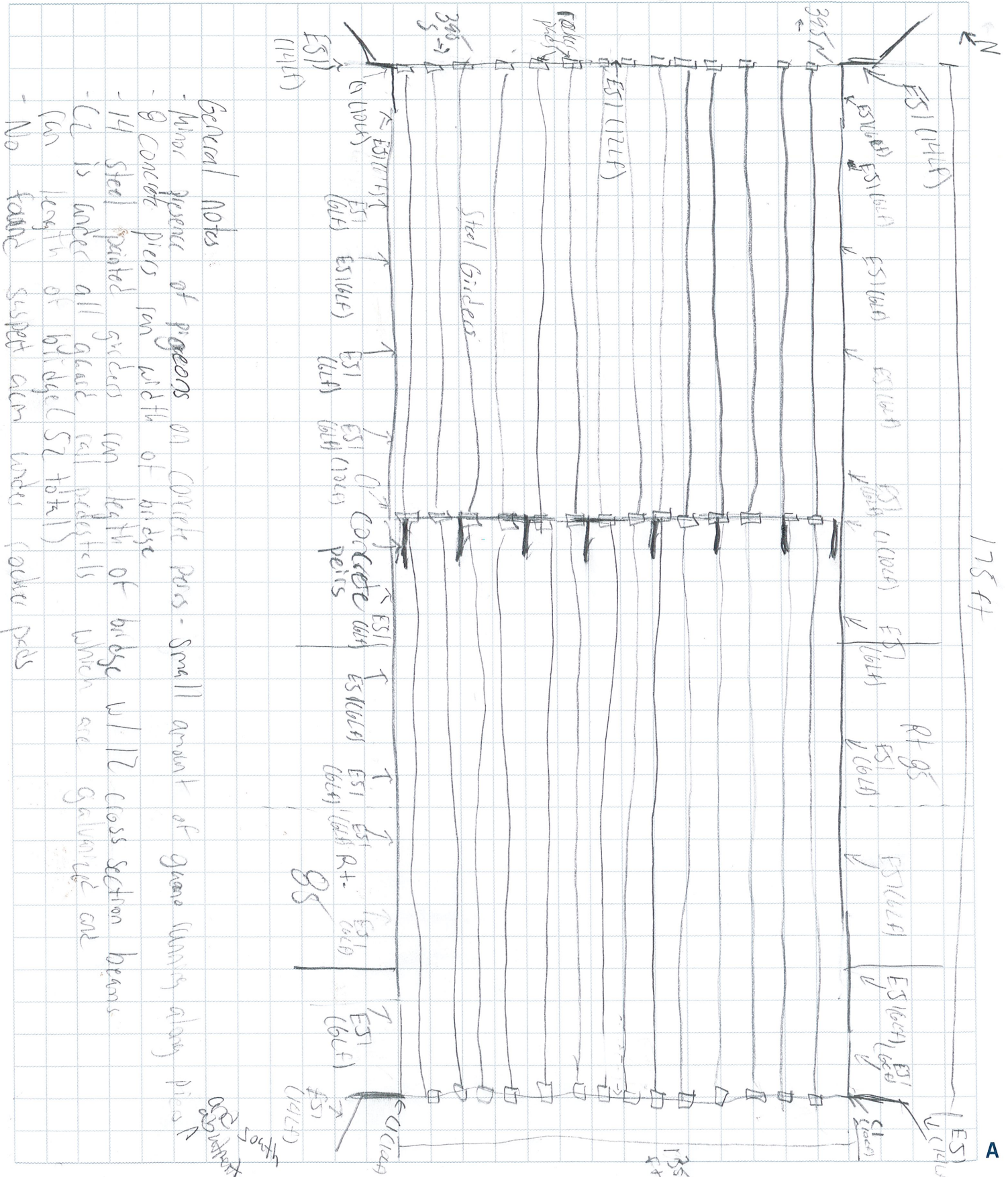
Key: CHR = Chrysotile AMO = Amosite CRO = Crocidolite ACT = Actinolite TRE = Tremolite ANT = Anthophyllite TR = Trace = < 1% ND = None Detected

Aimée Cormier
Aimée Cormier, Analyst



SUBJECT Bridge 00255

SHEET NO. 1 OF
PROJECT NO. 222165-5699.0710
DATE 12-22-17
BY DW / CL
CHK'D



General Notes:

- When present of piers on concrete piers - small amount of gravel running along piers
- 8 concrete piers on width of bridge
- 14 steel plated girders on length of bridge w/ 12 cross section beams
- C2 is under all gravel and pedestals which are galvanized and
- No found suspect area under concrete piers

SHEET NO. _____ OF _____

PROJECT NO. 222165-564 0710

DATE 12-22-17

BY DW / LL

CHK'D _____



SUBJECT Bridge 00255

ACM List

- ① - E31 - Black expansion joint w/ multi colored specs
- ② - C1 - Lt grey caulk on top side of bridge
- ③ - C2 - Lt grey hard brittle / molten like caulk under pedestals of guard rails.

Ph List.

- Only girders / rocker pads painted - 11.0 - + TCLP taken.
- TCLP 1 - Grey paint on girders / rocker pads

Hsz

- Minimal pigeon guano
- 2 Light bulbs w/ ampules above copier lot.

See File for photos

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

subject: State Bridge Program
State Project No. 152-158
Bridge No. 00255
Interstate 395 over Route 85
Waterford

memorandum

to:

Mr. Christopher J. Bonsignore
Transportation Principal Engineer
Bureau of Engineering and Construction

date:

December 7, 2016

from:

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

Hazardous/Contaminated Materials Screening

This project consists of the following:

- Replace the existing 7.25" thick reinforced concrete deck with an 8.5" thick precast reinforced concrete deck panels. Install a new spray applied waterproofing membrane and wearing surface.
- Eliminate the raised median and install a new median barrier between northbound and southbound roadways.
- Replace the existing expansion bearings and one line of fixed bearings at the pier to account for fixity changes for a continuous deck.
- Repair and fully paint the steel superstructure and patch the substructure.
- Remove a minimum of 5' of soil embankment in front of the south abutment to alleviate functional obsolescence due to lateral clearance.

Excavation is anticipated for the replacement of Bridge No. 00255. Modification to the slope embankment in front of the south abutment will provide adequate lateral clearance and remove the function obsolescence designation.

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 January 2, 2016 for the initial screening would be appreciated. Please provide this office with the results of the screening evaluation for use in developing and advancing this project. Should a lead investigation or other hazardous material investigation be required, please provide the results, including all special provisions, by September 6, 2017, the due-date for the semi-final plans.

Time expended for the completion of these activities should be charged to Project No. 152-158. If you have any questions or require additional information, please contact Ms. Veronica Calin, Transportation Engineer III, at Ext. 3226.

Attachments

Ricky D. Mears / rdm

cc: Rabil M. Barakat – Andrew J. Cardinali – Veronica M. Calin
Donald P. Wurst – Anand Seshadri – Ricky D. Mears (CME)