September 25, 2015

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: Adam Fox, P.E. / Roger Levesque, P.E.

Subject: On-Call Asbestos, Lead, Air Quality & Demolition Compliance
Agreement No. 08.24-03(11)
HazMat Inspection - Bridge No. 01358, Route 139 over Branford River, Branford, CT
ConnDOT Assignment No. 514-5104
ConnDOT Project No. 170-2811 (14-179)
TRC Project No. 222165.5104.0710

Dear Mr. Dorosh:

TRC performed a limited survey for hazardous building materials associated with the planned replacement of Bridge No. 01358 in Branford, Connecticut. The bridge superstructure consisted of non-painted concrete, therefore no lead was identified. Results of the survey identified lead paint to be present on the water main supports, guardrail supports and guardrails of the bridge (0.1- 3.9 mg/cm^2) of Bridge No. 01358. Results obtained from TCLP waste stream sampling and analysis for leachable lead from the paint on the water main supports, guardrail supports and guardrails of the bridge, characterized the paint waste stream at Bridge No. 01358 as EPA RCRA/CTDEEP hazardous waste (13 mg/l). Suspect asbestos containing materials in the form of black tar wrap and tar at base of water main were sampled and both were found to contain no asbestos. No bird/pigeon guano accumulations were identified in accessible areas of the bridge. Associated laboratory data, site map site sketch and site photos are attached.

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

Very Truly Yours,

TRC

Erik R. Plimpton, P.E., CHMM, CMC
Program Manager

E. Burke, P.E.
Engineer in Charge

21 Griffin Road North Windsor Connecticut 06095 • Phone. 860.298.9692 • Fax. 860.298.6399

Lead Based Paint Measurement Summary Table

Device(s):	**Niton XLP301-A (Serial #24792) X Ray Fluorescence (XRF) Spectrum Analyzer**
Site:	**CT DOT - Bridge No. 01358, Branford, CT**
Project # :	**222165.5104.0710**
Date(s):	**7/28/2015**
Inspector:	**Thomas Martin (CT License No. 002079)**

Number	Interior/ Exterior	Location	Bridge #	Structure	Feature	Material	Color	Condition	Reading (mg/cm2)	Precision (mg/cm2)	Depth Index	Duration (sec)	Date/Time
1			**Self Calibration**									165.1	7/28/2015 10:59
2			**0.0 Calibration**						0.0	0.0	1.2	2.2	7/28/2015 11:03
3			**0.7 Calibration**						0.8	0.1	1.1	8.3	7/28/2015 11:03
4			**1.5 Calibration**						1.5	0.2	1.1	5.8	7/28/2015 11:04
5	Exterior	Branford	Bridge No. 01358	guardrail support		Metal	Grey	Defective	**0.7**	**0.2**	1.5	4.1	7/28/2015 11:06
6	Exterior	Branford	Bridge No. 01358	guardrail support		Metal	Grey	Defective	**2.7**	**0.3**	1.3	4.6	7/28/2015 11:07
7	Exterior	Branford	Bridge No. 01358	guardrail support - newer		Metal	Grey	Defective	**0.1**	**0.0**	1.4	4.6	7/28/2015 11:08
8	Exterior	Branford	Bridge No. 01358	guardrail support - newer		Metal	Grey	Defective	**0.1**	**0.1**	1.7	3.2	7/28/2015 11:09
9	Exterior	Branford	Bridge No. 01358	guardrail		Metal	Grey	Intact	**0.1**	**0.1**	2.0	3.2	7/28/2015 11:11
10	Exterior	Branford	Bridge No. 01358	guardrail		Metal	Grey	Intact	**0.1**	**0.2**	2.4	3.2	7/28/2015 11:12
11	Exterior	Branford	Bridge No. 01358	guardrail support - newer		Metal	Grey	Intact	**0.2**	**0.1**	1.7	4.2	7/28/2015 11:13
12	Exterior	Branford	Bridge No. 01358	guardrail support - old		Metal	Grey	Defective	**3.9**	**0.9**	1.7	2.7	7/28/2015 11:16
13	Exterior	Branford	Bridge No. 01358	watermain pipe		Metal	Brown	Intact	0.0	0.0	1.0	4.1	7/28/2015 11:19
14	Exterior	Branford	Bridge No. 01358	watermain pipe		Metal	Brown	Intact	0.0	0.0	1.0	2.9	7/28/2015 11:19
15	Exterior	Branford	Bridge No. 01358	watermain pipe support		Metal	Grey	Intact	0.0	0.0	1.0	3.4	7/28/2015 11:22
16	Exterior	Branford	Bridge No. 01358	watermain pipe support		Metal	Grey	Intact	0.0	0.0	1.0	3.2	7/28/2015 11:22
17	Exterior	Branford	Bridge No. 01358	watermain pipe support		Metal	Grey	Intact	**0.1**	**0.1**	3.5	5.8	7/28/2015 11:22
18	Exterior	Branford	Bridge No. 01358	watermain pipe support		Metal	Grey	Intact	**0.1**	**0.1**	2.2	4.9	7/28/2015 11:23
19			**0.0 Calibration**						0.0	0.0	1.0	2.9	7/28/2015 11:26
20			**0.7 Calibration**						0.8	0.1	1.1	4.1	7/28/2015 11:27
21			**1.5 Calibration**						1.6	0.2	1.1	6.1	7/28/2015 11:27

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

TRC

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

Edition: September 2007
Supersede Previous Edition

CHAIN OF CUSTODY

LAB ID #. C284914

PROJECT NUMBER	PROJECT NAME	PARAMETERS	TURNAROUND TIME
222165-5104	CTDOT – Bridge # 01358 Branford, CT		24hr X 48hr 3day 5day 24hr 48hr 3day 5day
SIGNATURE [signature]	INSPECTOR Tom Martin		

FIELD SAMPLE NUMBER	DATE	TIME	TYPE COMP	TYPE GRAB	SAMPLE LOCATION	Total Pb (AAS)					NOTES
526779 01-Pb	7/28/15	1220			I beam supports/guardrail	X					Paint from I beams & guardrail
80 02-Pb	7/28/15	1238			Water Main pipe	X					Paint from water main pipe

Relinquished by: (Signature)	Date:	Received by: (Signature)	Relinquished by: (Signature)	Date:	Received by: (Signature)
[signature]	7/28/15	[signature] 7.29.15 11:10 am			
(Printed) Tom Martin	Time: 1520	(Printed)	(Printed)	Time:	(Printed)

Remarks: Results to E Plimpton @ eplimpton@trcsolutions.com

ProScience Analytical Services, Inc.
22 Cummings Park, Woburn, MA 01801

Telephone: 781-935-3212
Facsimile: 781-932-4857
Email: chemistry@proscience.net

Laboratory Report

Contact: Tom Martin
Client: TRC
Address: 21 Griffin Road North
Windsor, CT 06095

Batch #: C 284914
Date received: 7/29/2015
Date analyzed: 7/29/2015
Date of report: 7/29/2015

Project # 222165-5104
P.O.# C222165
Project Site: CT DOT - Bridge #01358
Branford, CT

AIHA-LAP, LLC Lab ID 102754

Lead Analysis In Paint Using SOP Based on SW846-7420/3051
Results in weight percent on an "as received" weight basis

Lab ID	Client ID	Sample date	Description	Result	Reporting Limit	Comments
C 526779	01-Pb	7/28/15	I Beam Supports / Guardrail	<RL	0.0063	
C 526780	02-Pb	7/28/15	Water Main Pipe	<RL	0.018	

Simona Peavey, Tech. Manager Chemistry
Aimee Cormier, Lab Director

Unless otherwise indicated, all samples were received in acceptable condition.
All result apply only to the samples as received and are accurate to no more than two significant figures.
Unless otherwise indicated, all the quality control criteria for the method above have been met.
RL-Reporting Limit(%by weight) Note on units: mg/Kg is the same as ppm by weight.

80 Lupes Drive
Stratford, CT 06615

COMPLETE ENVIRONMENTAL TESTING, INC.

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

Client: Ms. Kelly Grey
TRC Environmental Consultants
21 Griffin Rd., North
Windsor, CT 06095

Analytical Report

CET# 5090514

Report Date:September 24, 2015
Project: CTDOT
Project Number: Bridge 01358, Branford, 222165.5104.0710

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

NELAP ACCREDITED TNI LABORATORY

New York Certification: 11982
Rhode Island Certification: 199

SAMPLE SUMMARY

The sample(s) were received at 18.1°C.

This report contains analytical data associated with following samples only.

Sample ID	Laboratory ID	Matrix	Collection Date/Time	Receipt Date
01	5090514-01	Paint Chip	9/22/2015 12:20	09/23/2015

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
5090514-01	01	**13**	0.013	mg/L	1	B5I2423	09/24/2015	09/24/2015 13:57	

CET # : 5090514
Project: CTDOT
Project Number: Bridge 01358, Branford, 222165.5104.0710

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 Homogenity 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.

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010C in Soil	
Lead	CT,NY

Complete Environmental Testing operates under the following certifications and accreditations:

Code	Description	Number	Expires
CT	Connecticut Public Health	PH0116	09/30/2016
NY	New York Certification (NELAC)	11982	04/01/2016

5090514

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
222165.5104.0710	CTDOT - Bridge #01358 Branford, CT		X 24hr / 48hr / 3day / 5day
INSPECTOR: (SIGNATURE) [signature]	(PRINTED) Kelly Grey		24hr / 48hr / 3day / 5day

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		MATERIAL
01	9/22/15	1220		X	Bridge 01358 - South				X			Gray paint chips

Relinquished by: (Signature)	Date:	Received by: (Signature)	Relinquished by: (Signature)	Date:	Received by: (Signature)
[signature]	9/22	Fed Ex / [signature] 9/23/15 1300			
(Printed) Kelly Grey	Time: 1540	(Printed) 18.1°N	(Printed)	Time:	(Printed)

TRC

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

Edition: October 2009
Supersede Previous Edition

ASBESTOS BULK SAMPLING CHAIN OF CUSTODY

LAB ID #. 46429

PROJECT NUMBER	PROJECT NAME	PARAMETERS	TURNAROUND TIME
222165-5104-00710	CTDOT – Bridge 01358 Branford, CT		PLM: 8hr X 24hr 48hr 3day TEM: 24hr X 48hr 3day 5day

SIGNATURE	INSPECTOR
Tom Martin	Tom Martin

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	7/28/15	1031			South of bridge 01358	X					T1 – tar-like wrapping on pipe
2	7/28/15	1032			South of bridge 01358	X				X	T1 – tar-like wrapping on pipe

Relinquished by: (Signature)	Date:	Received by: (Signature)	Relinquished by: (Signature)	Date:	Received by: (Signature)
Tom Martin	7/28/15	7/28/15			
(Printed) Tom Martin	Time: 1442	(Printed) 1600	(Printed)	Time:	(Printed)

Remarks:

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 #:	0046429
Project #:	222165.5104.0710
Date Received:	07/28/2015
Date Analyzed:	07/29/2015

Site: Bridge 01358, Branford, 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	Black	Yes	No	- -	- - -	ND	None
02	Black	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), 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, 2015. 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
Kathleen Williamson, Laboratory Manager

Reviewed by: Amanda Parkins
Amanda Parkins, Approved Signatory

Date Issued
07/29/2015

Proscience Analytical Services, Inc.

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

TEM Bulk Chain of Custody Record

NT15338

Date: 07/30/15

PO#: **C183572**
Client: TRC
Client Job#: 183572.5104.0710
Client Job Ref./Loc.: CT DOT – Bridge 01358, Branford, CT
Relinquished by: K. Williamson – KWilliamson@trcsolutions.com

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

Received by: Margaret Calvert 7/31/15 1455pm
Report to: E. Plimpton – EPlimpton@trcsolutions.com & EBouley@trcsolutions.com
Samplers Name: T. Martin

Turn Around 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**
2	46429	Tar wrapping	See COC		

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 #: 183572.5104.0710
Client Reference: CT DOT - Bridge 01358, Branford, CT
PO #: C183572
Client #: 297
Client Name: TRC Environmental Corp. (CT)

Batch: NT 15338
Method: NOB
Date Received: 7/31/2015
Date Analyzed: 8/4/2015
Date of Report: 8/4/2015

LAB ID	Field ID	Description:	Color	Initial Weight	% Asbestos Types						% Other	%	%	Total %	Analyzed /	Prepped /
					CHR	AMO	ACT	CRO	ANT	TRE	Non-asb.	Organic	Carb.	Asbestos	Charged	Charged
NT116882	2	Tar Wrapping		.3626	.00	.00	.00	.00	.00	.00	10.95	88.42	.63	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

TRC

Edition: October 2009
Supersede Previous Edition

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

ASBESTOS BULK SAMPLING CHAIN OF CUSTODY

LAB ID #. 46787

PROJECT NUMBER	PROJECT NAME	PARAMETERS	TURNAROUND TIME
222165.5104.0710	CTDOT - Bridge #01358 Branford, CT		PLM: [ ] 8hr [X] 24hr [ ] 48hr [ ] 3day TEM: [X] 24hr [ ] 48hr [ ] 3day [ ] 5day

SIGNATURE: Kelly Grey

INSPECTOR: Kelly Grey

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
01	9/22/15	1215		X	Bridge 01358 - East	X				X	Tar on water main
02	9/22/15	1216		X	Bridge 01358 West	X					tar on water main

Relinquished by: (Signature)	Date:	Received by: (Signature)	Relinquished by: (Signature)	Date:	Received by: (Signature)
Kelly Grey	9/22/15	9/22/15			
(Printed) Kelly Grey	Time: 1535	(Printed) Amanda Parkins 1600	(Printed)	Time:	(Printed)

Remarks: Results to S. Arient.

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

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

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Results you can rely on

BULK ASBESTOS ANALYSIS REPORT

CLIENT: CT Department of Transportation

Lab Log #:	0046787
Project #:	222165.5104.0710
Date Received:	09/22/2015
Date Analyzed:	09/23/2015

Site: Bridge #01358, Branford, 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	Black	Yes	No	- -	- - -	ND	None
02	Black	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), 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.

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Analyzed by: K. Williamson — Kathleen Williamson, Laboratory Manager

Reviewed by: Amanda Parkins — Amanda Parkins, Approved Signatory

Date Issued 09/23/2015

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

NT15449

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: 09/23/15

PO#: **C222165**
Client: TRC
Client Job#: 222165.5104.0710
Client Job Ref./Loc.: CT DOT- Bridge #01358, Branford, CT
Relinquished by: K. Williamson – KWilliamson@trcsolutions.com
Received by: Doreen Townsend 9.24.15 @ 10:35 am
Report to: E. Plimpton - EPlimpton@trcsolutions.com
Samplers Name: K. Grey

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

Turn Around 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**
01	46787	Tar	See COC		

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 #: 222165.5104.0710
Client Reference: CT DOT - Bridge #01358, Branford, CT
PO #: C222165
Client #: 297
Client Name: TRC Environmental Corp. (CT)

Batch: NT 15449
Method: NOB
Date Received: 9/24/2015
Date Analyzed: 9/25/2015
Date of Report: 9/25/2015

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						
NT117984	01	Tar on water main		.3820	.00	.00	.00	.00	.00	.00	70.70	19.40	9.90	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

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

memorandum

subject: Project No. 170-2811 (P.E.)
Bridge No. 01358 – State Project No. 14-179
Hazardous/Contaminated Materials Screening
Route 139 – Branford

date: December 14, 2012

to Mr. Gregory M. Dorosh
Environmental Compliance
Bureau of Engineering and
Construction

from
for Transportation Principal Engineer
Bureau of Engineering and
Construction

The subject bridge has been recommended for rehabilitation under the List 20 & 21 Bridge Program. A location map for the subject bridge is attached for your use.

The Connecticut Department of Transportation's Bridge Safety & Inspection Unit has identified the bridge as being in need of repair. The bridge is structurally deficient due to the serious condition of the bridge deck. The bridge is also scour critical and functionally obsolete due to the deck width.

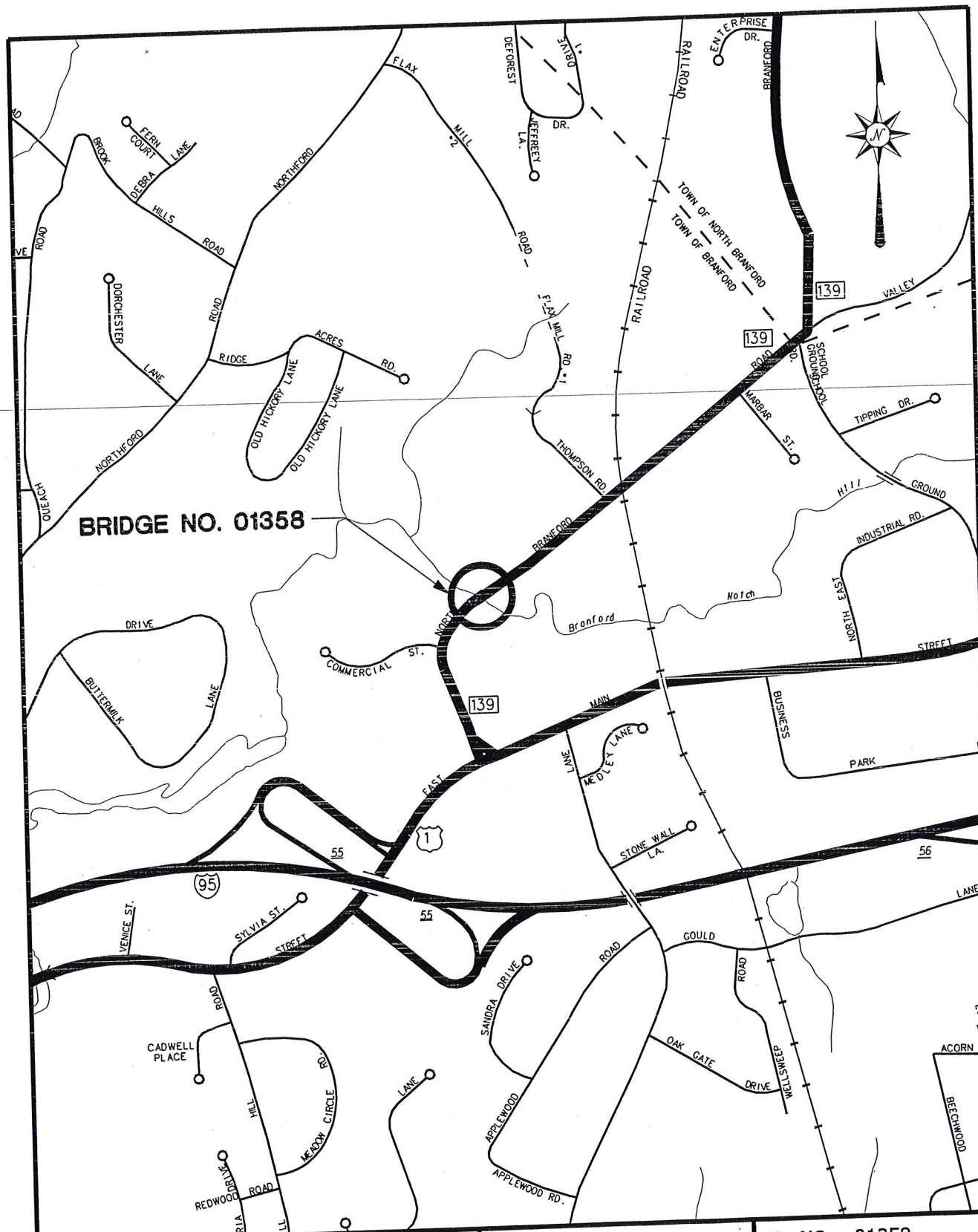
To address the structural deficiencies and the scour resistance, the recommended rehabilitation is to replace the existing bridge with a new structure. The alignment of the new structure is shifted approximately 10-feet to the southeast to improve the horizontal geometry.

Please provide this office with the environmental screening results by January 9, 2013. Review time should be charged to the subject P.E. project number using the appropriate Core unit designation.

If you have any questions concerning this matter, please contact Mr. Joseph Scalise at 594-3389.

Sara M. Bastos/smb

cc: Scott A. Hill – Trans. Principal Engineer – Louis Bacho – Joseph Scalise
Timothy P. Ryan (BL Companies)



BL Companies

REHABILITATION STUDY REPORT
ROUTE 139
OVER
BRANFORD RIVER
BRANFORD, CONNECTICUT

LOCATION MAP
SCALE : 1" = 1000'

BR. NO.: 01358

DATE: DECEMBER, 2009

FIGURE NO.: 1

SHEET NO. 1 OF 1

PROJECT NO. 222165-5704

DATE 7/20/15

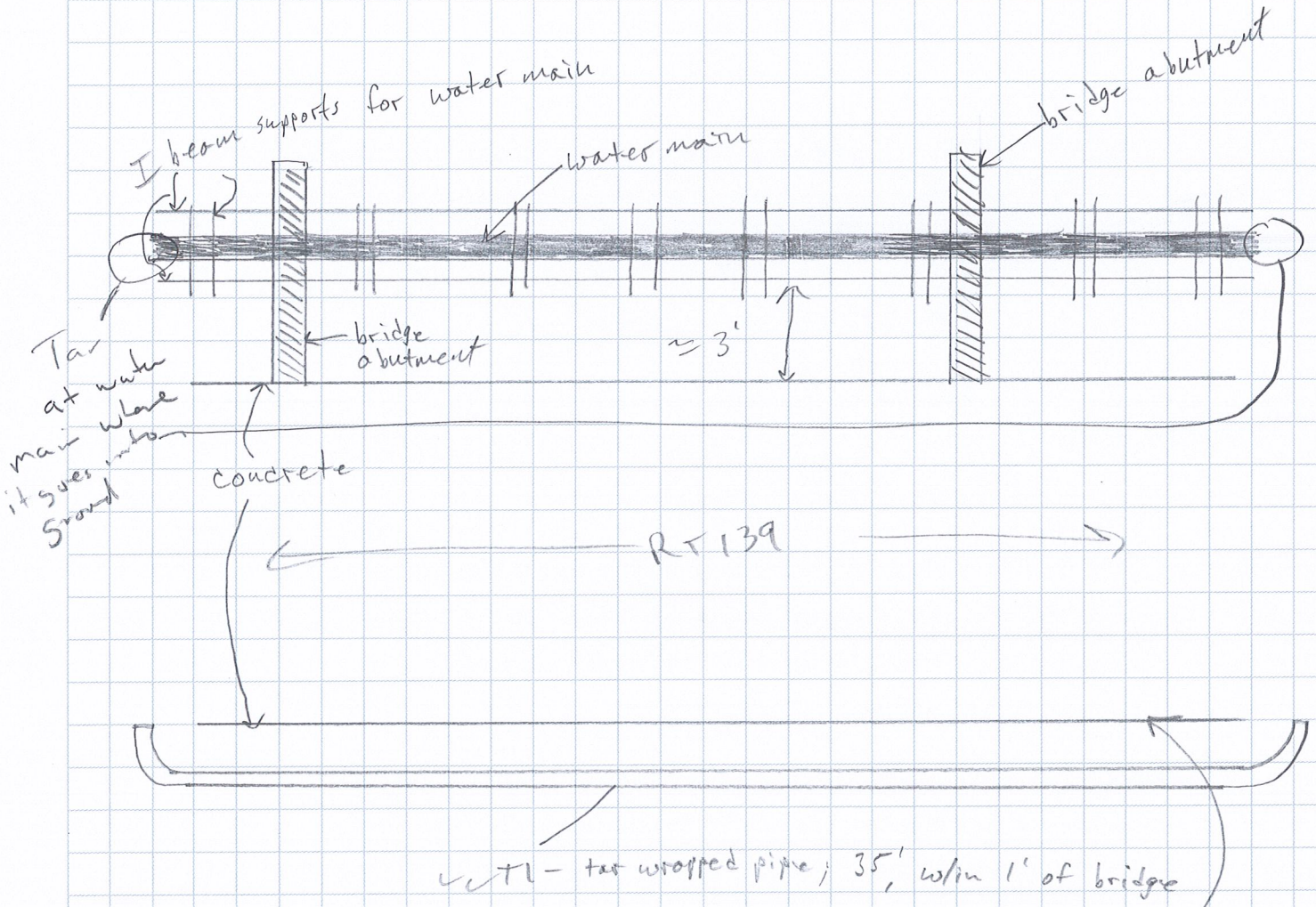
BY NM

CHK'D

TRC Results you can rely on

SUBJECT CTDOT Bridge #01358, Branford, CT

NTS



* concrete bridge; non-painted; no bird guano *

A

PHOTO 1
South side of Bridge No. 01358

PHOTO 2
North side of Bridge No. 01358