

SURVEY REPORT

**PRE-DEMOLITION
INVESTIGATIVE SURVEY FOR
HAZARDOUS BUILDING MATERIALS**

**EAST HAMPTON SALT SHED
EAST HAMPTON, CONNECTICUT**
Project No. 41-119

Prepared for

**State of Connecticut
Department of Transportation**
Newington, Connecticut

Prepared by

TRC
Windsor, Connecticut

Issued
June 2018

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TRC
Windsor, Connecticut

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

Erik R. Plimpton, P.E., CHMM, CMC
Vice President – Engineer in Charge

TRC Project No. 222165.5751.0710
Issued-June 2018

TRC
21 Griffin Road North
Windsor, Connecticut 06095
Telephone (860) 298-9692
Facsimile (860) 298-6380

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PROJECT OUTLINE

DOT Project No.: 41-119
Assignment No.: 514-5751
DOT Project Manager: Mandy Socolosky

Site Address: East Hampton Salt Shed, West High Street, East Hampton, CT

TRC Project No.: 222165.5751.0710
Asbestos Inspector: Dennis Ryder (LIC #000468)
Jonathan Gentile (LIC #000603)
Lead Inspector: Dennis Ryder (Niton Cert# A1052340717)

Date(s) of Inspection: 6/8/18
Historic Significance: N/A < 50 years old
Asbestos Identified: None
Lead Paint Identified: Yes, however all XRF readings on non-metallic surfaces tested <1.0 mg/cm²
Gen. Bldg. Mat. Haz Waste: No, per EPA/CTDEEP memo dated January 26, 2004
Add'l Haz./Reg. Mat./Waste/Items: Yes (See Table 6)

Asbestos Removal Cost Estimate: \$ 0
Haz/Reg Materials/Wastes/Items Removal Cost Estimate: \$ 2,235
Demolition Estimate: \$ 13,565

Additional Notes:

The property consists of a one-story salt shed scheduled for demolition prior to the construction of a new garage. No water/sanitary system services the building; however, there is electrical power. The MgCl tank is onsite.

TABLES

**TABLE 1
BULK SAMPLE SUMMARY OF SUSPECT ASBESTOS CONTAINING MATERIALS
EAST HAMPTON SALT SHED
EAST HAMPTON, CONNECTICUT**

Sample No.	Sample Location	Type of Homogeneous Material	% and Type Asbestos
1	Exterior	VB1 – tar paper vapor barrier	ND
2	Exterior	VB1 – tar paper vapor barrier	ND ¹
3	Roof	G1 – light yellow roof membrane glue	ND
4	Roof	G1 – light yellow roof membrane glue	ND ¹
5	Roof below membrane	RD1 – gypsum roof deck	ND
6	Roof below membrane	RD1 – gypsum roof deck	ND

NA/PVA Not analyzed/positive via inseparable association with a confirmed positive ACM

NA/PS Not analyzed/positive stop, homogeneous to sample proven to contain asbestos

ND<1% Non-detected, less than 1%

NAD No asbestos detected

+ Although found to be negative by analysis, material is homogeneous to a determined ACM and therefore must be considered positive

¹ Result confirmed by TEM analyses

* Quantified by PLM Point Counting techniques/Analyzed by EPA/600/R-93/116 with gravimetric reduction

**TABLE 2
 IDENTIFIED ASBESTOS CONTAINING MATERIALS (>1%)
 EAST HAMPTON SALT SHED
 EAST HAMPTON, CONNECTICUT**

Material	Sampled/ Assumed (mo/yr)	General Location	NESHAP Category	AHERA Category	Estimated Quantity
NO ASBESTOS CONTAINING MATERIALS IDENTIFIED IN THE SUBJECT AREA					

AHERA Categories = thermal system insulation (TSI), surfacing material or miscellaneous
 NESHAP Categories = friable, category I non-friable or category II non-friable
 Friable = crumbled, pulverized or reduced to powder by hand pressure when dry
 Category I Non-friable = packings, gaskets, resilient floor covering and asphalt roofing
 Category II Non-friable = all non-friable that is not Category I

TABLE 3
CONFIRMED NON-ASBESTOS CONTAINING MATERIALS (<1%)
EAST HAMPTON SALT SHED
EAST HAMPTON, CONNECTICUT

Material	General Location
VB1 – tar paper vapor barrier	Exterior
G1 – light yellow roof membrane glue	Roof
RD1 – gypsum roof deck	Roof below membrane

* *However, associated layers are positive.*

TABLE 4
SUMMARY OF LEAD PAINT XRF MEASUREMENTS
EAST HAMPTON SALT SHED
EAST HAMPTON, CONNECTICUT

Structure	No. of Measurements	Calibrations	Void	Lead Detected	No Lead Detected
One-story salt shed	14	7	0	2	5

See Lead Paint XRF Measurement Table in Appendix H.

TABLE 5
SUMMARY OF COMPOSITE BUILDING MATERIAL WASTE CHARACTERIZATION
EAST HAMPTON SALT SHED
EAST HAMPTON, CONNECTICUT

Waste Stream	Metal	mg/L Leachate	Hazardous/Non-Hazardous
Salt Shed Bldg. Material Composite (Excluding metal substrates and clean concrete)	<p>No TCLP sample for Lead warranted as XRF readings on non-metallic components were all below 1.0 mg/cm² and therefore the debris is presumed as <u>non-hazardous</u> per CTDEEP/USEPA clarification memo of January 26, 2004.</p>		

Note: Any metal components should be recycled to promote waste minimization efforts, rather than disposed of, and the recycling operation is exempt from the USEPA RCRA and CTDEEP Hazardous Waste regulations.

See Appendix I for CTDEEP/USEPA clarification memo of January 26, 2004.

BDL - Below Detection Limit

ND - Not Detected

TABLE 6
INVENTORY OF ADDITIONAL HAZARDOUS/REGULATED
MATERIALS, WASTES AND ITEMS IDENTIFIED
EAST HAMPTON SALT SHED
EAST HAMPTON, CONNECTICUT

Quantity	Size	Material/Item	General Location	Potential Hazard
10	-	Mercury vapor bulbs	Interior	UW – Hg lamps
5	-	Mercury vapor bulbs	Exterior	UW – Hg lamps
1	3,600 gal	Magnesium Chloride Tank	Exterior	CRW – waste chemical liquid

- CRW- Connecticut Regulated Waste – PCBs (CR01), Oils (CR02/CR03), waste chemical liquids - antifreeze, latex & solvent paints, sludges, etc. (CR04), waste chemical solids (CR05)
- UW- Universal Waste (batteries, thermostat ampoules, fluorescent lamps, used electronics)
- IH- Inhalation hazard (silicas, etc.)
- I- Ignitable - may contain ingredients which are ignitable (materials which have a flashpoint <140°F) (D001)
- C- Corrosive - may contain ingredients which are alkaline or acidic (materials with a PH<2 or >12.5) (D002)
- T- Toxic - may contain ingredients which are harmful if swallowed or which release vapors that can cause irritation
- R- Reactive – may contain ingredients which are unstable, react violently with water or are explosive (D003)

APPENDIX A
SITE PHOTOS

PHOTO 1.
B-C Side.

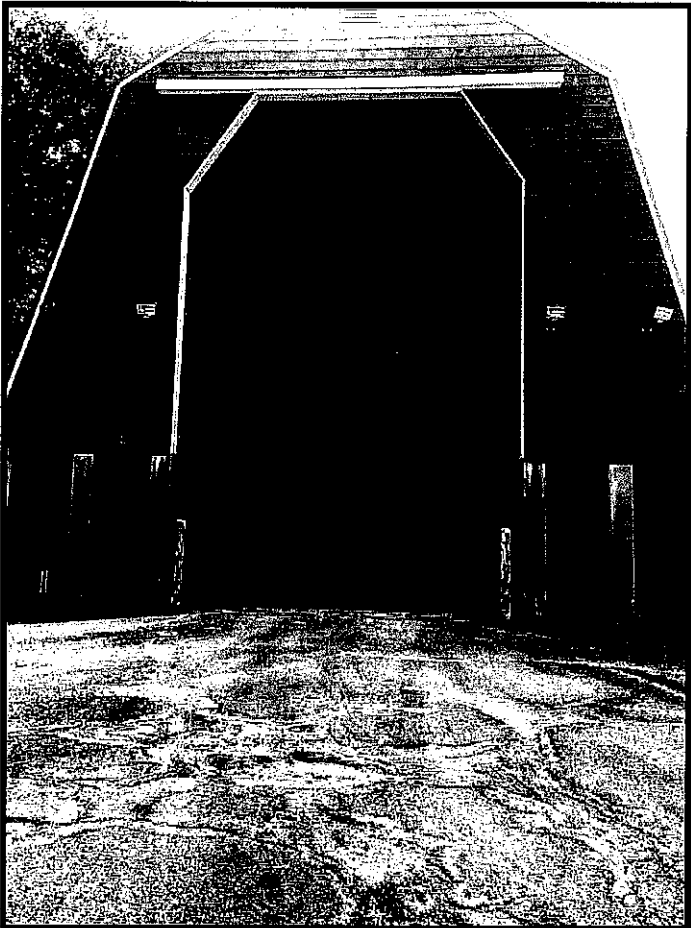
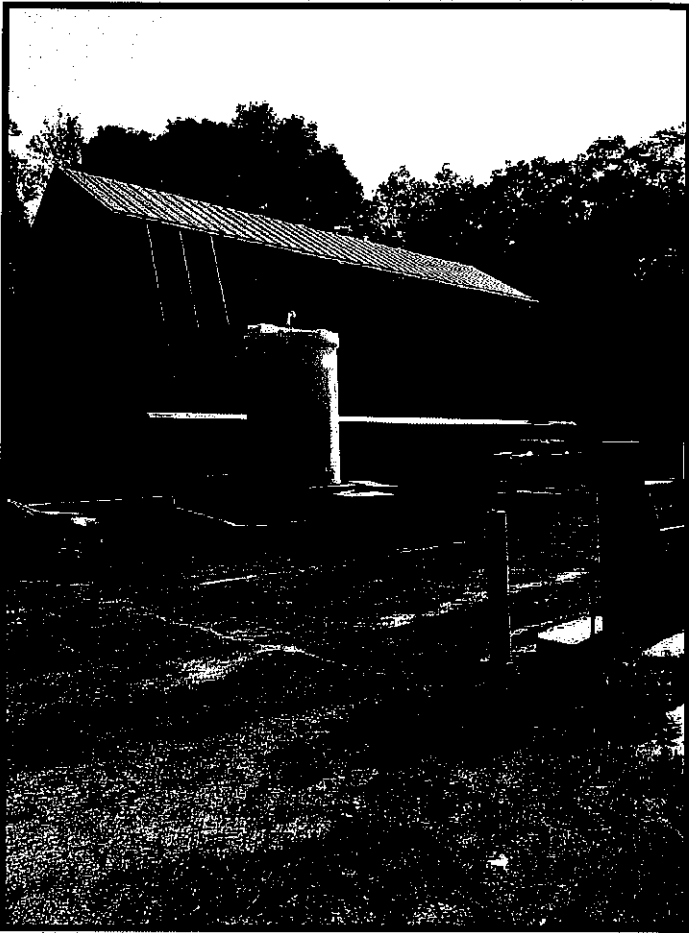
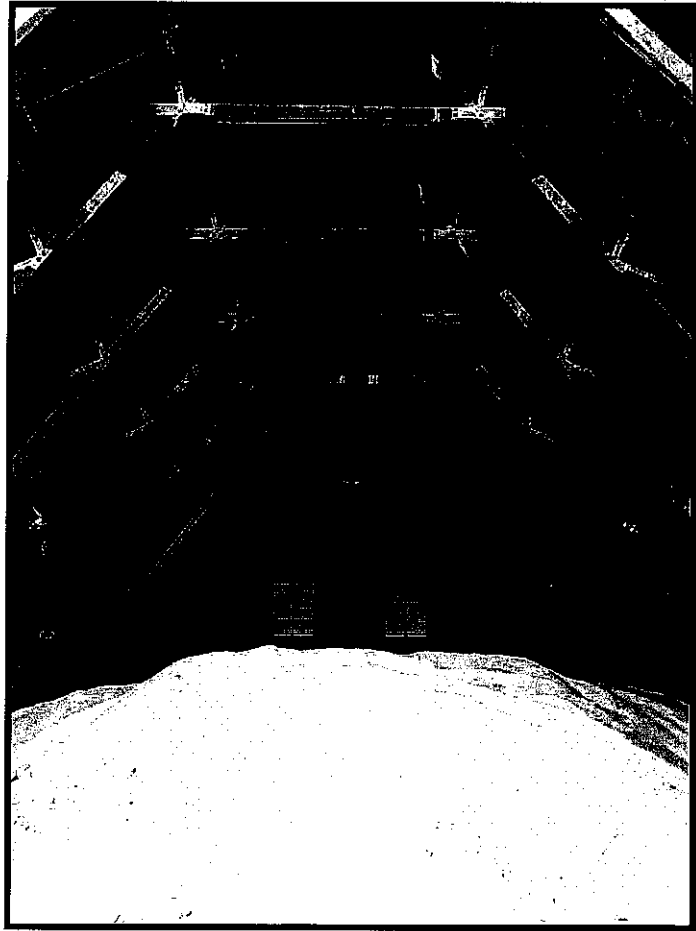


PHOTO 2.
C Side.

PHOTO 3.
Interior Shed.



APPENDIX B

SITE SKETCHES



SUBJECT E. Hampton Salt Shed

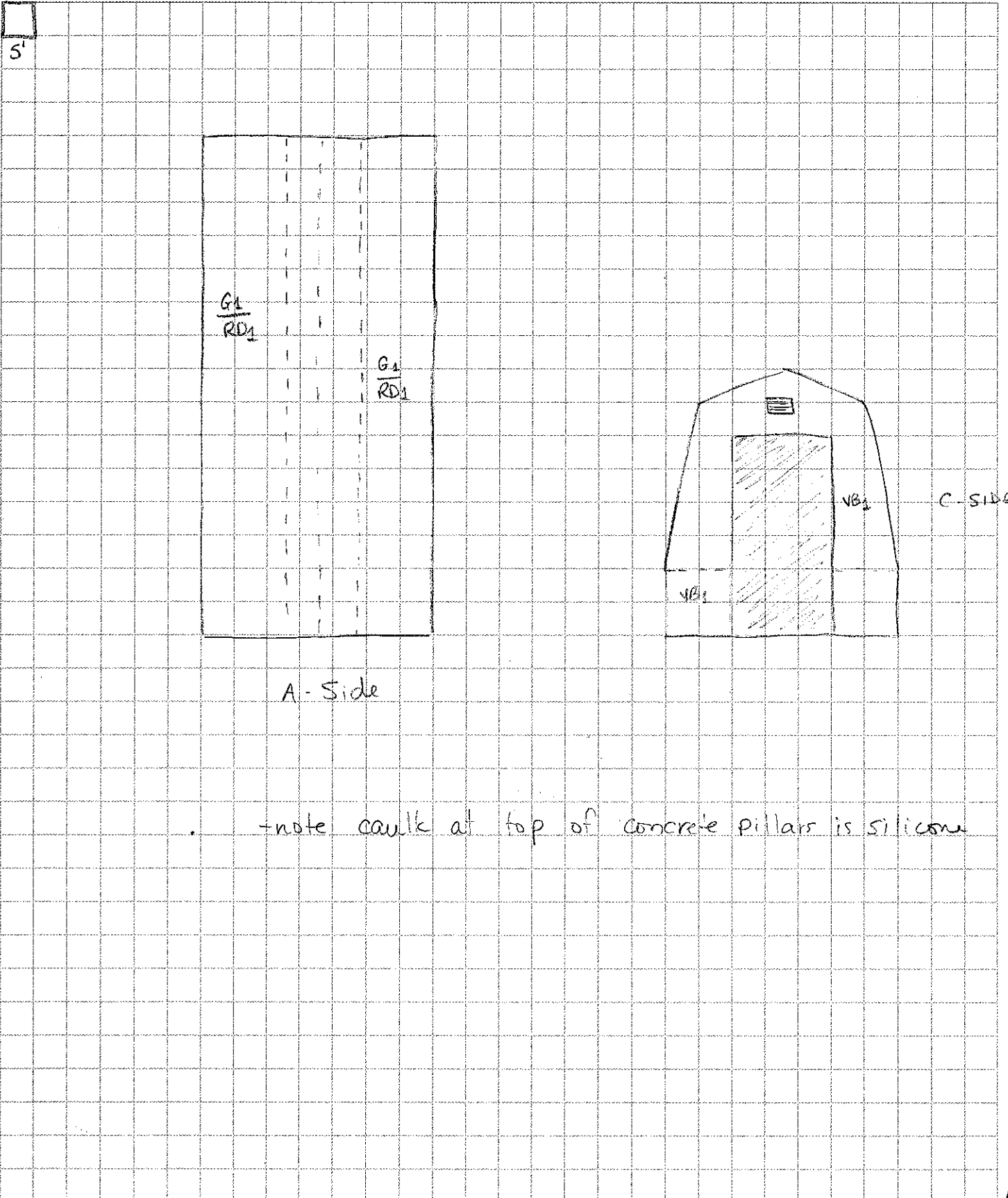
SHEET NO. _____ OF _____

PROJECT NO. 2221655710.0710

DATE 6/8

BY JG / DR

CHK'D _____



APPENDIX C

TRC INSPECTORS LICENSES/CERTIFICATIONS



State of Connecticut

Lookup Detail View

Name

Name

JONATHAN D GENTILE

License Information

lookup

License Type	License Number	Expiration Date	Granted Date	License Name	License Status	Licensure Actions or Pending Charges
Asbestos Consultant-Inspector	603	10/31/2018	11/10/2004	Jonathan D. Gentile	ACTIVE	None

Generated on: 2/2/2018 7:56:51 PM

CERTIFICATE OF ACHIEVEMENT

This certifies that

Jonathan Gentile

has successfully completed the
Asbestos Site Inspector Refresher Training
Asbestos Accreditation Under TSCA Title II
40 CFR Part 763

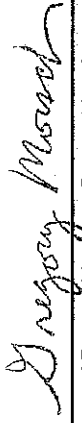
conducted by

ATC Group Services LLC
73 William Franks Drive
West Springfield, MA 01089
(413) 781-0070



Principal Instructor: *Marcus Soutira*
November 16, 2017
Date of Course

November 16, 2018
Expiration Date



Regional Training Manager: *Gregory Morsch*
SIAR-5870
Certificate Number

November 16, 2017
Examination Date



State of Connecticut

Lookup Detail View

Name

Name

DENNIS P RYDER

License Information

lookup

License Type	License Number	Expiration Date	Granted Date	License Name	License Status	Licensure Actions or Pending Charges
Asbestos Consultant-Inspector	468	09/30/2018	05/30/2001	Dennis P. Ryder	ACTIVE	None

Generated on: 2/2/2018 8:45:02 PM

Certificate of Training

Awarded to

DENNIS RYDER

**For successful completion of a 4 Hour, 1/2 Day
Asbestos Building Inspector
Annual Refresher Training
APRIL 5, 2018**

This training was approved and given in accordance with the
Regulations for Connecticut State Agencies
RCSA 20 - 440 - 1-9 and RCSA 20 - 441 and meets the
requirements of the EPA Revised MAP under TSCA Title II of 4/4/94.

Presented by

Mystic Air Quality Consultants, Inc.

1204 North Road, Groton, CT 06340 (800) 247-7746

Certificate Number: ABIRF26674

Exam Grade: 90

Exam Date: 04/05/2018

Expiration Date: 04/05/2019

Christopher J. Eident, CIH, CSP, RS

George Williamson, Training Director

Richard Haffey, Training Director

NITON

CORPORATION

Certificate of Achievement

Dennis Ryder

TRC Environmental

*has successfully completed the Manufacturer's Training Course for the
NITON Spectrum Analyzer and is now certified
in radiation safety and monitoring, measurement technology,
and machine maintenance of the NITON XRF Spectrum Analyzer.
(CIH's - The ABIH awards 1 CM point, approval #5827)*

A1052340717

Certificate Number

05/31/01 Bedford, MA

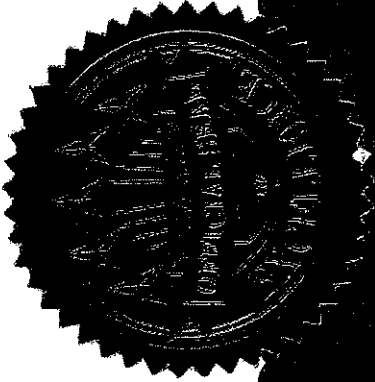
Date & Site of Course

Victoria Gogychinski

Training Coordinator

Richard R. Gogychinski

Director of Training



APPENDIX D

LABORATORY ACCREDITATIONS

*State of Connecticut Department of Public Health
Approved Environmental Laboratory*

TRC ENVIRONMENTAL CORPORATION

1000 ROUTE 200
SHELTON, CT 06484

TRC Environmental Corporation is a Connecticut Environmental Laboratory, as defined in Section 22-360 of the Connecticut General Statutes, and is authorized to perform the following tests:

**ENVIRONMENTAL TOXICOLOGY
AND CHEMISTRY**

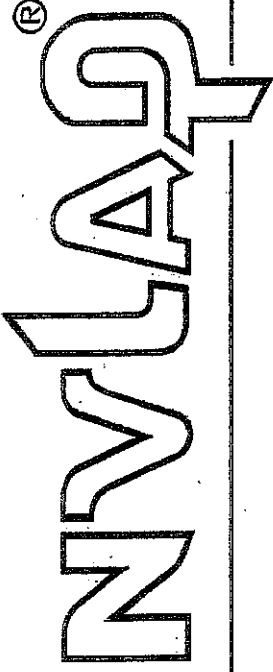
ANALYSIS OF AIR, WATER, AND SOIL FOR
HEAVY METALS AND ORGANIC COMPOUNDS

TRC Environmental Corporation is a member of the National Environmental Laboratory Accreditation Conference (NELAP) and is accredited to perform the following tests:

**ASBESTOS
ANALYSIS**

ANALYSIS OF AIR, WATER, AND SOIL FOR
HEAVY METALS AND ORGANIC COMPOUNDS

United States Department of Commerce
National Institute of Standards and Technology



Certificate of Accreditation to ISO/IEC 17025:2005

NVLAP LAB CODE: 101424-0

TRC Environmental Corporation
Windsor, CT

is accredited by the National Voluntary Laboratory Accreditation Program for specific services,
listed on the Scope of Accreditation, for:

Asbestos Fiber Analysis

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005.
This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality
management system (refer to joint ISO-ILAC-IAF Communique dated January 2009).

2017-07-01 through 2018-06-30

Effective Dates

A handwritten signature in black ink, appearing to read "Peter S. Harkin".

For the National Voluntary Laboratory Accreditation Program



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

TRC Environmental Corporation
21 Griffin Road North
Windsor, CT 06095
Ms. Kathleen Williamson
Phone: 860-298-6392 Fax: 860-298-6214
Email: kwilliamson@trcsolutions.com
<http://www.trcsolutions.com>

ASBESTOS FIBER ANALYSIS

NVLAP LAB CODE 101424-0

Bulk Asbestos Analysis

<u>Code</u>	<u>Description</u>
18/A01	EPA -- Appendix E to Subpart E of Part 763 -- Interim Method of the Determination of Asbestos in Bulk Insulation Samples
18/A03	EPA 600/R-93/116: Method for the Determination of Asbestos in Bulk Building Materials

A handwritten signature in black ink, appearing to read "Kathleen Williamson".

For the National Voluntary Laboratory Accreditation Program

State of Connecticut, Department of Public Health

Approved Environmental Laboratory

THIS IS TO CERTIFY THAT THE LABORATORY DESCRIBED BELOW HAS BEEN APPROVED BY THE STATE DEPARTMENT OF PUBLIC HEALTH PURSUANT TO APPLICABLE PROVISIONS OF THE PUBLIC HEALTH CODE AND GENERAL STATUTES OF CONNECTICUT, FOR MAKING THE EXAMINATIONS, DETERMINATIONS OR TESTS SPECIFIED BELOW WHICH HAVE BEEN AUTHORIZED IN WRITING BY THAT DEPARTMENT.

PROSCIENCE ANALYTICAL SERVICES, INC.

LOCATED AT 22 Cummings Park IN Woburn, MA 01801
AND REGISTERED IN THE NAME OF Harvey Yee
THIS CERTIFICATE IS ISSUED IN THE NAME OF Aimee Cormier WHO HAS BEEN DESIGNATED
BY THE REGISTERED OWNER/AUTHORIZED AGENT TO BE IN CHARGE OF THE LABORATORY WORK COVERED BY THIS CERTIFICATE OF
APPROVAL AS FOLLOWS:

SOLID WASTE/SOIL

Examination for:
Total Metals

ASBESTOS

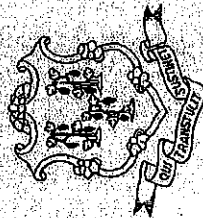
Bulk Identification (PLM + TEM)
Air-Fiber Counting (PCM + TEM)

ENVIRONMENTAL HEALTH & HOUSING

Lead In Paint
Lead (Paint) in Soil
Lead in Dust Wipes

SEE COMPUTER PRINT-OUT FOR SPECIFIC TESTS APPROVED

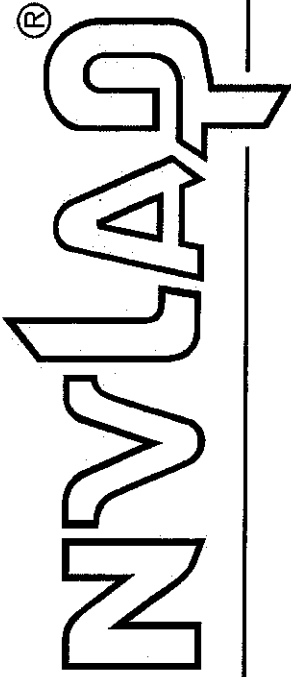
THIS CERTIFICATE EXPIRES December 31, 2018 AND IS REVOCABLE FOR CAUSE BY THE STATE DEPARTMENT OF PUBLIC HEALTH
DATED AT HARTFORD, CONNECTICUT, THIS 29th November 2016



Registration #
PH-0209

SUZANNE BLANCAFLOR, MS
CHIEF, ENVIRONMENTAL HEALTH SECTION

United States Department of Commerce
National Institute of Standards and Technology



Certificate of Accreditation to ISO/IEC 17025:2005

NVLAP LAB CODE: 200090-0

ProScience Analytical Services, Inc.
Woburn, MA

is accredited by the National Voluntary Laboratory Accreditation Program for specific services,
listed on the Scope of Accreditation, for:

Asbestos Fiber Analysis

*This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005.
This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality
management system (refer to joint ISO-ILAC-IAF Communiqué dated January 2009).*

2018-01-01 through 2018-12-31

Effective Dates

A handwritten signature in black ink, appearing to read "Peter S. Lamm".

For the National Voluntary Laboratory Accreditation Program



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

ProScience Analytical Services, Inc.

22 Cummings Park
Woburn, MA 01801-2122
Ms. Aimee Cormier
Phone: 781-935-3212 Fax: 781-932-4857
Email: aimee.cormier@proscience.net
<http://www.proscience.net>

ASBESTOS FIBER ANALYSIS

NVLAP LAB CODE 200090-0

Bulk Asbestos Analysis

<u>Code</u>	<u>Description</u>
18/A01	EPA -- 40 CFR Appendix E to Subpart E of Part 763, Interim Method of the Determination of Asbestos in Bulk Insulation Samples
18/A03	EPA 600/R-93/116: Method for the Determination of Asbestos in Bulk Building Materials

Airborne Asbestos Analysis

<u>Code</u>	<u>Description</u>
18/A02	U.S. EPA's "Interim Transmission Electron Microscopy Analytical Methods-Mandatory and Nonmandatory-and Mandatory Section to Determine Completion of Response Actions" as found in 40 CFR, Part 763, Subpart E, Appendix A.

A handwritten signature in black ink, appearing to read "Jane S. Laman".

For the National Voluntary Laboratory Accreditation Program

APPENDIX E

**ASBESTOS BULK SAMPLE
CHAIN OF CUSTODY FORMS**



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 #. 52378

PROJECT NUMBER	PROJECT NAME		INSPECTOR		PARAMETERS				TURNAROUND TIME						
	222165.5751.0710	ConnDOT East Hampton Salt Shed W High St, East Hampton, CT 06424	Dennis Ryder, Jonathan Gentile		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 1984 (IF PLM SERIES NEG)	PLM:	8hr	24hr	48hr	3day	
SIGNATURE	DATE	TIME	TYPE	GRAB	COMP	SAMPLE LOCATION		MATERIAL							
01	6/8/18	09:03	X	X	X	Exterior									VB1 - Tar Paper Vapor Barrier
02	6/8/18	09:03	X	X	X	Exterior			X						VB1 - Tar Paper Vapor Barrier
03	6/8/18	09:17	X	X	X	Roof									G1 - Lt Yellow Roof Membrane Glue
04	6/8/18	09:18	X	X	X	Roof			X						G1 - Lt Yellow Roof Membrane Glue
05	6/8/18	09:24	X	X	X	Roof below Membrane									RD1 - Gypsum Roof Deck
06	6/8/18	09:24	X	X	X	Roof below Membrane									RD1 - Gypsum Roof Deck

Relinquished by: (Signature) 	Date: 6/8/18	Received by: (Signature) 	Date: 6/8/18	Relinquished by: (Signature) (Printed)	Date:
(Printed) Jonathan Gentile	Time: 1500	(Printed) Dennis Ryder	Time: 1500	(Printed)	Time:
Remarks:	Condition of Samples: Acceptable: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		Comments:		

NT 17260

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: 06/11/18

PO#: C222165
Client: TRC

Client Job#: 222165.5751.0710

Client Job Ref./Loc.: CT DOT - East Hampton Salt Shed, W. High Street, East Hampton, CT

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

Received by: Dawn Jankens 6-12-18 @ 9:50

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

Samplers Name: D. Ryder/J. Gentile

Analysis Type: Chatfield EPA N.O.B Qualitative

Turnaround Time: <12 Hour <24 Hour <48 Hour <3 Day 5 Day Other:

Client ID #	Lab ID#	Description	Location	For Lab Use Only	
				Acceptable on Receipt	Comments
02	52378	Tar Paper	See COC		
04	52378	Glue			
For Lab Use Only				# Spics	Total
For Lab Use Only				Results Reported	Comments

APPENDIX F

PLM LABORATORY ANALYSIS DATA



BULK ASBESTOS ANALYSIS REPORT

CLIENT: CT Department of Transportation

Lab Log #: 0052378
 Project #: 222165.5751.0710
 Date Received: 06/08/2018
 Date Analyzed: 06/08/2018

Site: East Hampton Salt Shed, W. High Street, East Hampton, 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 (vapor barrier)	Yes	No	--	80% cellulose	ND	None
02	Black (vapor barrier)	Yes	No	--	80% cellulose	ND	None
03	Light Yellow (glue)	Yes	No	--	10% synthetic fiber	ND	None
04	Light Yellow (glue)	Yes	No	--	10% synthetic fiber	ND	None
05	Off White (gypsum roof deck)	Yes	No	--	80% cellulose	ND	None
06	Off White (gypsum roof deck)	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, 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: K. Williamson Reviewed by: Cathryn Lemire Date Issued: 06/10/2018
 Kathleen Williamson, Laboratory Manager Cathryn Lemire, Approved Signatory

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

APPENDIX G

TEM LABORATORY ANALYSIS DATA

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 #: 222165.5751.0710
 Client Reference: CT DOT - East Hampton Salt Shed, W. High Street, East Hampton, CT
 PO #: C222165
 Client #: 297
 Client Name: TRC Environmental Corp. (CT)

Batch: NT 17260
 Method: NOB
 Date Received: 6/12/2018
 Date Analyzed: 6/14/2018
 Date of Report: 6/14/2018

LAB ID	Field ID	Description:	Color	Initial Weight	% Asbestos Types					% Other Non-asp.	% Organic	% Carb.	Total % Asbestos	Analyzed / Charged	Preped / Charged
					CHR	AMO	ACT	CRO	ANT						
NT130034	02	Tar Paper Vapor Barrier		.2681	.00	.00	.00	.00	.00	.00	97.54	1.27	Yes	No	
NT130035	04	L1 Yellow Roof Membrane Glue		.0984	.00	.00	.00	.00	.00	.72	98.98	.30	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

APPENDIX H

LEAD PAINT XRF MEASUREMENT TABLE



Lead Based Paint Measurement Summary Table

Number	Room	Side	Structure	Feature	Material	Color	Condition	Reading (mg/cm2)	Precision (mg/cm2)	Depth Index	Duration (sec)	Date/Time
1	Shutter calibration							3.0	0.0		98.55	6/8/2018 8:50
2	0.0 calibration							0.0	0.0	1	10.52	6/8/2018 9:23
3	0.7 calibration							0.8	0.1	1.12	17.02	6/8/2018 9:24
4	3.5 calibration							3.7	0.2	1.28	11.71	6/8/2018 9:25
5	Exterior	A	Wall	Shingle	Wood	Brown	Intact	0.0	0.0	1	6.78	6/8/2018 9:28
6	Exterior	B	Wall	Shingle	Wood	Brown	Intact	0.0	0.0	1	6.53	6/8/2018 9:29
7	Exterior	C	Wall	shingle	Wood	Brown	Intact	0.0	0.0	1	6.09	6/8/2018 9:30
8	Exterior	C	Pole	Crash post	Metal	Yellow	Defective	1.2	0.1	1.75	10.33	6/8/2018 9:35
9	Exterior	C	Pole	Crash post	Metal	Yellow	Defective	1.4	0.1	1.58	8.66	6/8/2018 9:36
10	Exterior	C		Trim	Wood	White	Intact	0.0	0.0	1	7.28	6/8/2018 9:42
11	Exterior	C		Trim	Wood	White	Intact	0.0	0.0	1	5.16	6/8/2018 9:44
12	0.0 calibration	--	--	--	--	--	--	0.0	0.0	1	5.16	6/8/2018 9:46
13	0.7 calibration	--	--	--	--	--	--	0.7	0.1	1.02	3.74	6/8/2018 9:46
14	3.5 calibration	--	--	--	--	--	--	3.5	0.5	1.22	3.04	6/8/2018 9:47

Device(s): Niton XLP301-A (Serial #24792) X Ray Fluorescence (XRF) Spectrum Analyzer
 Site: East Hampton Salt Shed, 245 West High Street, East Hampton, Connecticut
 Project #: 22165-5710-0710
 Date(s): 6/8/2018
 Inspector: Dennis Ryder (Niton Cert. #A1052340717)

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

APPENDIX I

**COMPOSITE BUILDING MATERIAL
WASTE CHARACTERIZATION DATA**



STATE OF CONNECTICUT
DEPARTMENT OF ENVIRONMENTAL PROTECTION



January 26, 2004

Mr. Erik R. Plimpton, P.E., CHMM, Senior Consulting Engineer
TRC Environmental Corporation
5 Waterside Crossing
Windsor, CT 06095

RE: Characterization of lead-based paint debris.

Dear Mr. Plimpton:

Pursuant to our recent discussions by email, I am writing to confirm that the policy elaborated in my July 22, 1997 letter to Steven Murdzia of ATC Associates concerning the use of XRF testing to characterize lead-based paint debris is still in effect. In particular, my statement in that letter that obtaining an XRF reading less than 1.0 mg/cm^2 is sufficient to demonstrate that a given debris is not a hazardous waste is still our current policy.

As noted in my July 22, 1997 letter, this policy is subject to the following limitations:

- 1.) The material being sampled consists only of building debris (such as painted wood or masonry). Non-debris materials (such as concentrated paint chips, sand blasting debris, or paint stripping wastes) may not be characterized in this manner.
- 2.) The material being sampled has only surficial lead contamination (i.e. lead-based paint). Materials which have more than just surficial contamination (such as floor boards soaked with lead plating solutions) may not be characterized in this manner.
- 3.) The material is sampled in accordance with appropriate protocols regarding sampling frequency and location, to ensure that the reading of 1.0 mg/cm^2 or less is truly representative of the material as a whole.

I should also note that this approach is only useful in situations in which all of a particular debris stream does not exceed 1.0 mg/cm^2 . If portions of the debris stream exceed 1.0 mg/cm^2 , you cannot use this standard to characterize the debris, and must resort to another method (such as composite sampling). In addition, in employing this method to characterize the debris, the areas which had XRF readings under the 1.0 mg/cm^2 limit must not be ignored (since falling below the standard only means they are not hazardous, not that they are lead-free).

My July 22, 1997 letter also addressed the use of the Connecticut Department of Public Health's 0.5 weight percent limit for a "toxic" level of lead under its lead abatement regulations in order to determine whether or not lead-based paint debris is hazardous. Unlike the 1.0 mg/cm² XRF standard, the weight percent number is not appropriate for waste characterization purposes, due to a lack of relevant data. The 1.0 mg/cm² XRF policy discussed above was based on certain data generated by EPA correlating XRF readings to TCLP sampling of architectural debris.¹ While EPA's data did not show a predictable relationship between these two measures, it did indicate that there was an XRF threshold below which such debris did not contain sufficient lead to fail TCLP. However, there is no similar data establishing a similar threshold for weight percent lead in lead-based paint below which debris does not fail TCLP.

I should also note that we intend to include the above policy in the next revision of our lead-based paint guidance document, Guidance for the Management and Disposal of Lead-Contaminated Materials Generated in the Lead Abatement, Renovation, and Demolition Industries, which was last revised in 1996, prior to the letter to Mr. Murdzia.

Sincerely,



Ross Q. Bunnell, Sanitary Engineer 3
Bureau of Waste Management
Engineering & Enforcement Division

RQB:rqb

Attachment: March, 1993 EPA Guidance Document

¹ See in particular the March 1993 EPA guidance document entitled "Applicability of RCRA Disposal Requirements to Lead-Based Paint Abatement Wastes," Page 16, Table II. A copy of this guidance document is attached.

APPENDIX J

**ITEMIZED COST ESTIMATE
FOR ASBESTOS ABATEMENT**

TRC
Asbestos Abatement Cost Estimate
CTDAS Contract # 16PSX0110
(Effective: May 1, 2017 – April 30, 2022)

Site: East Hampton Salt Shed, 245 West High Street, East Hampton, Connecticut
TRC Project #: 222165.5751.0710 **DOT Project #: 41-119**

<u>ITEM DESCRIPTION</u>	<u>QTY</u>	<u>UNIT</u>	<u>COST</u>	<u>MULT</u>	<u>TOTAL</u>
ASBESTOS REMOVAL					
HEPA VACUUMING		SF	\$ 0.24	1 \$	-
PIPING REMOVAL <6" INCL FITTINGS		LF	\$ 1.50	1 \$	-
PIPING REMOVAL 6"-12" INCL FITTINGS		LF	\$ 2.25	1 \$	-
PIPING REMOVAL >12" INCL FITTINGS		LF	\$ 3.15	1 \$	-
GLOVE BAG FIRST 25		EA	\$ 22.50	1 \$	-
GLOVEBAG 25-50		EA	\$ 1,935.00	1 \$	-
GLOVEBAG OVER 50		EA	\$ 17.00	1 \$	-
REMOVE EQUIPMENT INSULATION		SF	\$ 3.25	1 \$	-
REMOVE HVAC DUCT INSULATION		SF	\$ 3.25	1 \$	-
REMOVE HVAC DUCT FLEX CONN		SF	\$ 2.50	1 \$	-
FLOOR TILE AND MASTIC		SF	\$ 1.00	1 \$	-
FLOOR TILE (NO MASTIC)		SF	\$ 0.50	1 \$	-
SPRAY ON FIREPROOFING		SF	\$ 2.25	1 \$	-
PLASTER LATHE AND BLACK IRON		SF	\$ 2.25	1 \$	-
ACCOUSTIC OR METAL PAN CEILING INCL GRID		SF	\$ 1.50	1 \$	-
ACCOUSTIC PANELS CLEAN GRID FOR REUSE		SF	\$ 1.25	1 \$	-
ACCOUSTIC PLASTER FINISH MTL (SCRAPE)		SF	\$ 2.00	1 \$	-
PATCH/SEAL DAMAGED INSULATION		SF	\$ 1.00	1 \$	-
CONTAMINATED SOIL (2" DEPTH)		SF	\$ 1.30	1 \$	-
TRANSITE MATERIAL		SF	\$ 0.80	1 \$	-
ROOFING OR FLASHING		SF	\$ 1.20	1 \$	-
UNDERGROUND PIPE OR INSULATION (HAND EXCAVATION)		LF	\$ 9.50	1 \$	-
CARPET OVER TILE		SF	\$ 0.72	1 \$	-
WALL BASE AND MASTIC		LF	\$ 0.72	1 \$	-
REMOVAL OF DRYWALL PARTITIONS INCL FRAMING		SF	\$ 0.90	1 \$	-
REMOVAL OF CMU WALL		SF	\$ 1.55	1 \$	-
PREP WORK AREA		SF	\$ 0.97	1 \$	-
SOLID BARRIER OR ACCESS TUNNELS 2X4 AND PLYWOOD		SF/SA	\$ 1.00	1 \$	-
STANDBY ABATEMENT PERSONNEL		HR	\$ 77.00	1 \$	-
SELECTIVE DEMOLITION TO ACCESS ACM		SF	\$ 1.00	1 \$	-
REMOVAL OF FLOOR LEVELING MATERIAL		SF	\$ 0.75	1 \$	-
MISCELLANEOUS ITEMS					
MOBILIZATION (1 PER WORK AREA)		EA	\$ 250.00	1 \$	-
WORKER DECON (1 PER WORK AREA)		EA	\$ 250.00	1 \$	-
TEMP ELECTRICAL CONNECTION (LICENSED ELECTRICIAN)		EA	\$ 250.00	1.1 \$	-
TEMP GENERATOR		DY	\$ 20.00	1.1 \$	-
ACM DISPOSAL (INCLUDES TRANSPORTATION)		CY	\$ 55.00	1.1 \$	-
HAZARDOUS WASTE DISPOSAL (INCLUDES TRANS)		CY	\$ 250.00	1.1 \$	-
CONSTRUCTION DEBRIS DISPOSAL (INCLUDES TRANS)		CY	\$ 25.00	1.1 \$	-
FIXED SCAFFOLDING		SF	\$ 10.00	1.1 \$	-
EXCAVATION TO EXPOSE UNDERGROUND PIPE		CY	\$ 15.00	1.1 \$	-
PROJECT NOTIFICATION (1% OF ABATEMENT COST)	1	EA	\$ 50.00	1.1 \$	-
PROJECT BOND (3% OF TOTAL CONTRACT)		EA		1.1 \$	-
ESCALATION FACTORS					
WORK SURFACES 10-20 FEET HIGH				15% \$	-
WORK SURFACES OVER 20 FEET HIGH				30% \$	-
NON REGULAR WORK HOURS 6:00PM-6:00AM AND WEEKEND				30% \$	-
EMERGENCY RESPONSE (<24 hr)				30% \$	-
CONFINED SPACE WORK				15% \$	-
REMOVAL OF MULTIPLE LAYERS OF TILE (EACH ADDIT LAYER)				50% \$	-
REMOVE ON LIVE STEAM EQUIPMENT				25% \$	-
EXTERIOR WORK				30% \$	-
NEGOTIATED ITEMS					
		SF		1 \$	-
		SF		1 \$	-
				1 \$	-
				1 \$	-
				1 \$	-
CONTINGENCY (10%)				10% \$	-
TOTAL				\$	-

APPENDIX K

**HAZARDOUS/REGULATED MATERIALS,
WASTES AND ITEMS REMOVAL COST ESTIMATE**

TRC
Hazardous/Regulated Materials, Wastes & Items Removal Cost Estimate
(excluding asbestos abatement)
CTDAS Contract # 14PSX0314

(Effective: March 3, 2015 – February 28, 2020)

Site: East Hampton Salt Shed, East Hampton, CT
TRC Project #: 222165.5751.0710

DOT Project #: 41-119

Item	Item #	Quantity	Units	Rate	Total
Operations Supervisor	1	4	hrs	\$50.00	\$200.00
Equipment Operator	4	0	hrs	\$46.00	\$0.00
Equipment Operator OT	4	0	hrs	\$69.00	\$0.00
Laborer	8	16	hrs	\$46.00	\$736.00
Laborer OT	8	0	hrs	\$69.00	\$0.00
Driver (Mobilization/Disposal/Vac)	5	8	hrs	\$46.00	\$368.00
Driver (Mobilization/Disposal/Vac) OT	5	0	hrs	\$69.00	\$0.00
Vacuum Truck (oil)	12	0	hrs	\$56.10	\$0.00
Box truck	18	8	hrs	\$16.00	\$128.00
Utility Trucks (< 18000 GVW)	17	0	hrs	\$16.00	\$0.00
Loader/Backhoe (12' dig depth)	33	0	hrs	\$43.00	\$0.00
Loader/Backhoe (15' dig depth)	34	0	hrs	\$45.00	\$0.00
Lowbed Trailer/Tractor	27	0	hrs	\$50.00	\$0.00
Triaxle Dump Truck	23	0	hrs	\$45.00	\$0.00
Roll-off Truck	30	0	hrs	\$46.00	\$0.00
Roll-off Container (30 CY)	31	0	hrs	\$5.00	\$0.00
Roll-off Liners (haz waste/CRW soil)	130	0	ea	\$65.00	\$0.00
* Highlift		0	hrs	\$35.00	\$0.00
Water Wagon	29	0	hrs	\$20.00	\$0.00
*Hoses (dust suppression)		0	hrs	\$15.00	\$0.00
Frac Tank (20,000 gal)	89	0	hrs	\$7.50	\$0.00
5,000 psi Hi-Pressure Cleaner	82	0	hrs	\$20.00	\$0.00
Silt Fence	131	0	LF	\$1.00	\$0.00
Level C PPE (Pb)	90	0	person-hrs	\$22.00	\$0.00
Poly (10-mil sheeting 20'x100')	124	0	ea	\$95.00	\$0.00
Speedi-Dry (50 lb bag)	132	0	bag	\$10.00	\$0.00
17C DOT 55 gal Drums (haz items)	119	0	ea	\$40.00	\$0.00
Generator (5 kw)	80	0	hrs	\$20.00	\$0.00
* Dispose of haz-waste/regulated items		5	ea	\$100.00	\$500.00
* Dispose of AST/UST/sump contents (oil)		100	gal	\$1.00	\$100.00
* Dispose of trench/drain sludge (CRW)		0	CY	\$50.00	\$0.00
* Dispose of sediment/concrete (CRW)		0	CY	\$50.00	\$0.00
* Dispose of contaminated soil (CRW)		0	CY	\$50.00	\$0.00
* Dispose of Pb-painted components (haz)		0	CY	\$125.00	\$0.00
* Dispose of contaminated wood (haz)		0	CY	\$125.00	\$0.00
* Dispose of boiler/fly ash (haz)		0	CY	\$125.00	\$0.00
* CFC Reclaim (subcontractor)		0	day	\$1,000.00	\$0.00
Contingency (10%)					\$203.20

TOTAL ESTIMATE \$2,235.20

* Line items not included in Contract 14PSX0314, rate estimated by TRC
 Cost estimate based on assumption of 1 day for hazardous/regulated item removal. Assume all items removed including CaCl tank.

APPENDIX L
DEMOLITION COST ESTIMATE

TRC
Demolition Cost Estimate
(excluding asbestos abatement & hazardous/regulated items removal)
CTDAS Contract # 14PSX0314
(Effective: March 3, 2015 – February 28, 2020)

Site: East Hampton Salt Shed, East Hampton, Connecticut
TRC Project #: 222165.5751.0710

DOT Project #: 41-119

Item	Item #	Quantity	Units	Rate	Total
Operations Supervisor	1	8	hrs	\$50.00	\$400.00
Equipment Operator	4	16	hrs	\$46.00	\$736.00
Equipment Operator OT	4	0	hrs	\$69.00	\$0.00
Laborer	8	16	hrs	\$46.00	\$736.00
Laborer OT	8	0	hrs	\$69.00	\$0.00
Driver (Mobilization/Disposal/Vac)	5	16	hrs	\$46.00	\$736.00
Driver (Mobilization/Disposal/Vac) OT	5	0	hrs	\$69.00	\$0.00
Vacuum Truck (septic)	12	0	hrs	\$56.10	\$0.00
Box truck	18	16	hrs	\$16.00	\$256.00
Utility Trucks (< 18000 GVW)	17	0	hrs	\$16.00	\$0.00
Loader/Backhoe (12' dig depth)	33	0	hrs	\$43.00	\$0.00
Loader/Backhoe (15' dig depth)	34	16	hrs	\$45.00	\$720.00
36,000 lb. Excavator	47	0	hrs	\$65.00	\$0.00
70,000 lb. Excavator	49	16	hrs	\$90.00	\$1,440.00
90,000 lb. Excavator	50	0	hrs	\$150.00	\$0.00
* Excavator Arm Extension		0	hrs	\$75.00	\$0.00
* Crane with wrecking ball		0	hrs	\$250.00	\$0.00
Grapple Attachment	54	16	hrs	\$80.00	\$1,280.00
Hydraulic Sheer Attachment	55	0	hrs	\$80.00	\$0.00
Hydraulic Hammer Attachment	56	8	hrs	\$80.00	\$640.00
Lowbed Trailer/Tractor	27	8	hrs	\$50.00	\$400.00
Triaxle Dump Truck	23	0	hrs	\$45.00	\$0.00
Roll-off Truck	30	8	hrs	\$46.00	\$368.00
Roll-off Container (30 CY)	31	8	hrs	\$5.00	\$40.00
Trench Box (8'x24') (disconnects)	99	0	hrs	\$50.00	\$0.00
Cut Off Saw	102	0	hrs	\$15.00	\$0.00
Water Wagon	29	16	hrs	\$20.00	\$320.00
*Hoses (dust suppression)		16	hrs	\$15.00	\$240.00
Silt Fence	131	0	LF	\$1.00	\$0.00
Generator (5 kw)	80	16	hrs	\$20.00	\$320.00
* Demo Permit		1	ea	\$100.00	\$100.00
* Metal Safety Fence (Freestand)		0	LF	\$10.00	\$0.00
* Abandon Water Well (subcontractor)		0	day	\$1,200.00	\$0.00
* C&D Demo Disposal (non-haz)		60	CY	\$50.00	\$3,000.00
* Concrete/brick/block Recycle		60	CY	\$10.00	\$600.00
* Steel Recycle (CREDIT)		0	CY	(\$15.00)	\$0.00
* Backfill		0	CY	\$10.00	\$0.00
Contingency (10%)					\$1,233.20
TOTAL ESTIMATE					\$13,565.20

* Line items not included in Contract 14PSX0314, rate estimated by TRC
Cost estimate based on assumption of 2 days of site work

APPENDIX M
RELATED CORRESPONDENCE

Plimpton, Erik

From: Socolosky, Mandy <Mandy.Socolosky@ct.gov>
Sent: Thursday, June 7, 2018 11:12 AM
To: Plimpton, Erik; Young, Denise A
Cc: Arienti, Stephen; Lepage, Don
Subject: RE: East Hampton Salt shed

It was built in 1989 and the roof was replaced in 2012.

NO SHPO REVIEW

Mandy Socolosky
Environmental Compliance
Connecticut Department of Transportation
2800 Berlin Turnpike
Newington, CT 06111
Phone: (860)594-3396
E-mail: Mandy.Socolosky@ct.gov

From: Plimpton, Erik [mailto:EPlimpton@trcsolutions.com]
Sent: Thursday, June 07, 2018 11:06 AM
To: Young, Denise A; Socolosky, Mandy
Cc: Arienti, Stephen; Lepage, Don
Subject: RE: East Hampton Salt shed

Gonna need to find out the year it was built as well, for SHPO purposes, since it's a demo.

Erik R. Plimpton, PE, CHMM, CMC

TRC
860-798-4699
eplimpton@trcsolutions.com

From: Plimpton, Erik
Sent: Thursday, June 7, 2018 11:01 AM
To: 'Young, Denise A' <Denise.Young@ct.gov>; Socolosky, Mandy <Mandy.Socolosky@ct.gov>
Cc: Arienti, Stephen <SArienti@trcsolutions.com>; Lepage, Don <DLepage@trcsolutions.com>
Subject: RE: East Hampton Salt shed

We can walk around as long as the shed itself is open, can't tell from that photo if there is a mega door on the other side that might be closed/locked?

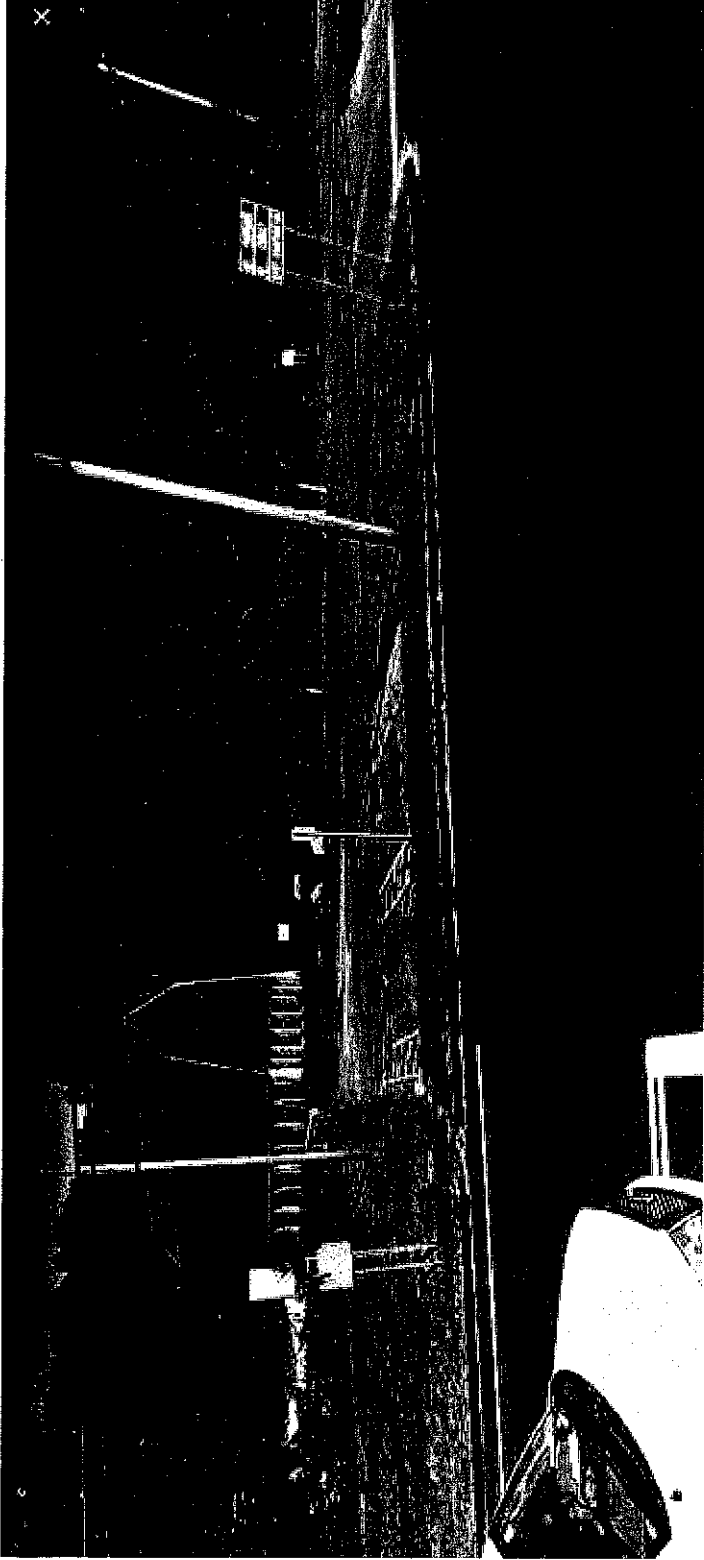
If so lets say 9AM tomorrow.

Erik R. Plimpton, PE, CHMM, CMC

TRC
860-798-4699
eplimpton@trcsolutions.com

From: Young, Denise A [mailto:Denise.Young@ct.gov]
Sent: Thursday, June 7, 2018 10:56 AM
To: Plimpton, Erik <EPlimpton@trcsolutions.com>; Socolosky, Mandy <Mandy.Socolosky@ct.gov>
Cc: Arienti, Stephen <SArienti@trcsolutions.com>
Subject: RE: East Hampton Salt shed

They lock it, but you can easily walk around the posts for the gate from the commuter lot. If you need to pull in, we'll need a definite as to when so we can have maintenance open it up in the morning.



Denise

Denise Young

Department of Transportation
Environmental Compliance
2800 Berlin Tpke.

Newington, CT 06111
(860)594-2686 fax (860)594-2456

From: Plimpton, Erik [<mailto:EPlimpton@trcsolutions.com>]

Sent: Thursday, June 07, 2018 10:52 AM

To: Socolosky, Mandy; Young, Denise A

Cc: Arfenti, Stephen

Subject: RE: East Hampton Salt shed

Thx

Might have guys there tomorrow

Erik R. Plimpton, PE, CHMM, CMIC

TRC

860-798-4699

erikplimpton@trcsolutions.com

From: Socolosky, Mandy [<mailto:Mandy.Socolosky@ct.gov>]

Sent: Thursday, June 7, 2018 10:51 AM

To: Plimpton, Erik <EPlimpton@trcsolutions.com>; Young, Denise A <Denise.Young@ct.gov>

Cc: Arienti, Stephen <SArienti@trcsolutions.com>

Subject: RE: East Hampton Salt shed

It's across the street from 245 West High Street – at the intersection of 16 and 66

Mandy Socolosky

Environmental Compliance

Connecticut Department of Transportation

2800 Berlin Turnpike

Newington, CT 06111

Phone: (860)594-3396

E-mail: Mandy.Socolosky@ct.gov

From: Plimpton, Erik [<mailto:EPlimpton@trcsolutions.com>]

Sent: Thursday, June 07, 2018 10:49 AM

To: Young, Denise A

Cc: Arienti, Stephen; Socolosky, Mandy

Subject: RE: East Hampton Salt shed

Do you have an address for this salt shed

All I have is RT66

Erik R. Plimpton, PE, CHMM, CMC

TRC

860-798-4699

eplimpton@trcsolutions.com

From: Young, Denise A [<mailto:Denise.Young@ct.gov>]

Sent: Thursday, May 24, 2018 10:16 AM

To: Plimpton, Erik <EPlimpton@trcsolutions.com>

Cc: Arienti, Stephen <SArienti@trcsolutions.com>; Socolosky, Mandy <Mandy.Socolosky@ct.gov>

Subject: East Hampton Salt shed

Erik – can you send an assignment request for 710/720 to demo the East Hampton Salt shed? They are going to reconfigure the entire site and build a new garage.

The project number is 41-119 (State Funded)

Denise

Denise Young

Department of Transportation

Environmental Compliance

2800 Berlin Tpke.

Newington, CT 06111

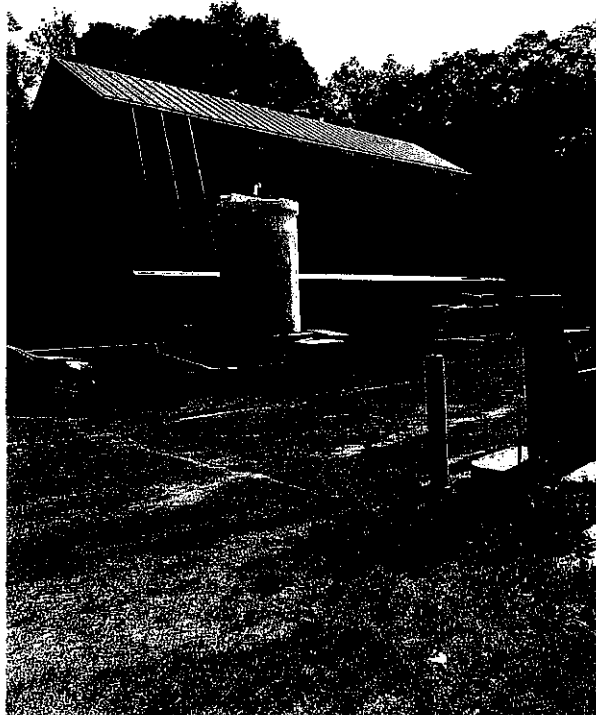
(860)594-2686 fax (860)594-2456

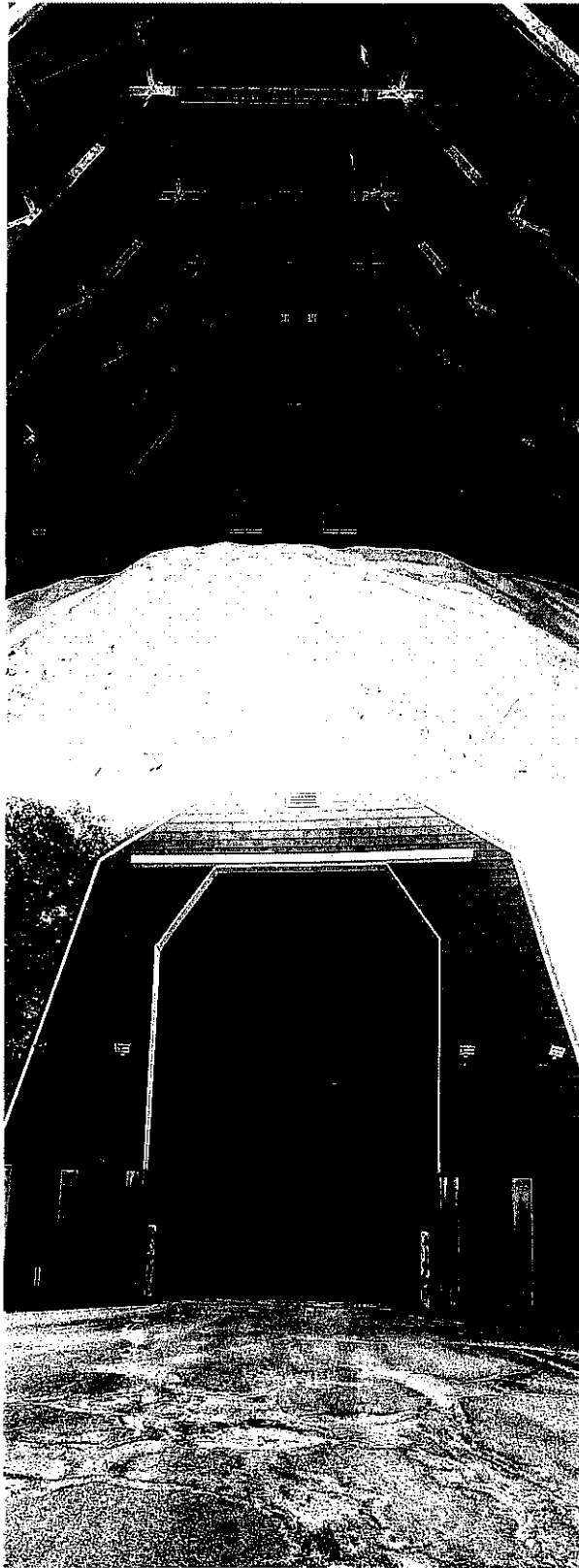
ConnDOT, East Hampton Salt Shed, Middlesex, , East Hampton, 06424, CT, US, W High St,

Created 2018-06-08 08:50:26 EDT by Jonathan Gentile
Updated 2018-06-08 14:17:04 EDT by Jonathan Gentile
Location 41.5645230934411, -72.5416136719962
Status Survey Complete

Job Information

Site Name East Hampton Salt Shed
Address W High St
East Hampton, CT 06424
TRC Project Number 222165
Project Manager Erik Plimpton
Inspector(s) Jonathan Gentile, Dennis Ryder
Client ConnDOT
Additional Analysis for NOB Materials (Calc) TEM NY NOB 198.4
PLM Turnaround Time (TAT) 24-hour
TEM Turnaround Time (TAT) 24-hour
Date 2018-06-08
General Notes Demo of salt shed as site to be completely reconfigured and New shed to be built. Shed originally constructed in 1989
Overview Photo





Surveys Performed

Asbestos, XRF, Hazardous Materials Inventory

Asbestos Section

(2), VB, 1, Tar Paper Vapor Barrier

01, Exterior

Sample Number	01
Sample Location	Exterior
Analyze by Layer	No
Asbestos Bulk Analysis	PLM EPA 600/R93/116
Grab or Composite	Grab
Date	2018-06-08
Time	09:03

02, Exterior

Sample Number	02
Sample Location	Exterior
Analyze by Layer	No
Asbestos Bulk Analysis	PLM EPA 600/R93/116
Grab or Composite	Grab
Date	2018-06-08
Time	09:03

Material Information

Accessible Material	Accessible
Material Acronym	VB, 1
Material Description	Tar Paper Vapor Barrier
Is Material a Non-Friable Organically Bound (NOB)	Yes
Homogeneous Area	Behind Cedar Shakes
Total Approximate Quantity	2400 SF
Total Count	(2)

(2), G, 1, Lt Yellow Roof Membrane Glue

03, Roof

Sample Number	03
Sample Location	Roof
Analyze by Layer	No
Asbestos Bulk Analysis	PLM EPA 600/R93/116
Grab or Composite	Grab
Date	2018-06-08
Time	09:17

04, Roof

Sample Number	04
Sample Location	Roof
Analyze by Layer	No
Asbestos Bulk Analysis	PLM EPA 600/R93/116
Grab or Composite	Grab

Date 2018-06-08
Time 09:18

Material Information

Accessible Material Accessible
Material Acronym G, 1
Material Description Lt Yellow Roof Membrane Glue
Is Material a Non-Friable Organically Bound (NOB) Yes
Homogeneous Area Under Rubber Roof Membrane
Total Approximate Quantity 6000 SF
Total Count (2)

(2), RD1, Gypsum Roof Deck

05, Roof below Membrane

Sample Number 05
Sample Location Roof below Membrane
Analyze by Layer No
Asbestos Bulk Analysis PLM EPA 600/R93/116
Grab or Composite Grab
Date 2018-06-08
Time 09:24

06, Roof below Membrane

Sample Number 06
Sample Location Roof below Membrane
Analyze by Layer No
Asbestos Bulk Analysis PLM EPA 600/R93/116
Grab or Composite Grab
Date 2018-06-08
Time 09:24

Material Information

Accessible Material Accessible
Material Acronym RD1
Material Description Gypsum Roof Deck
Is Material a Non-Friable Organically Bound (NOB) No
Homogeneous Area Below Rubber Membrane Roof
Total Approximate Quantity 6000 SF
Total Count (2)

XRF Section

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

Date Data Downloaded 2018-06-08

HAZMAT Inventory Section

Interior

Inventory Area Description Interior

Universal Waste (UW), Emergency Lighting (Batteries/Hg Lamps)

HAZMAT Item Description Universal Waste (UW), Emergency Lighting (Batteries/Hg Lamps)
HAZMAT Item Common Name Hg Vapor bulbs
HAZMAT Item Quantity 10

Exterior

Inventory Area Description Exterior

Universal Waste (UW), Emergency Lighting (Batteries/Hg Lamps)

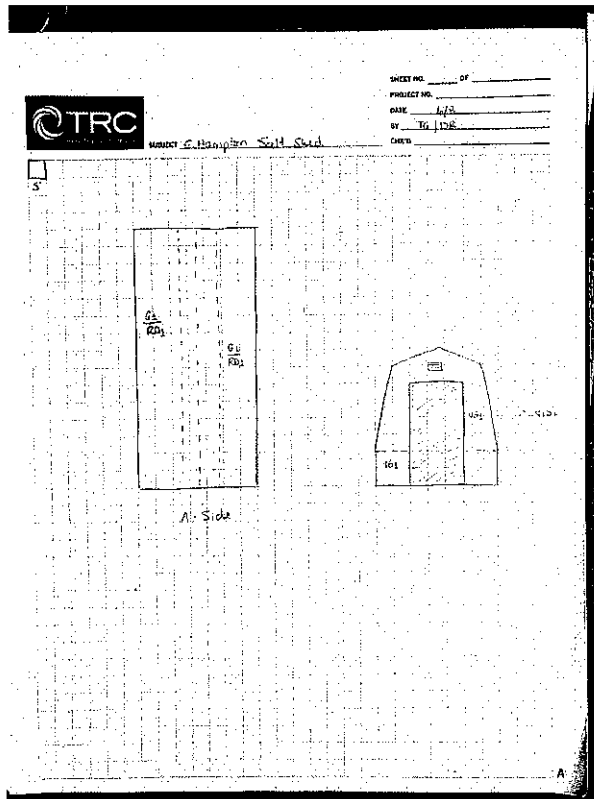
HAZMAT Item Description Universal Waste (UW), Emergency Lighting (Batteries/Hg Lamps)
HAZMAT Item Common Name Jg Vapor bulbs
HAZMAT Item Quantity 5

Miscellaneous, Magnesium Chloride Tank

HAZMAT Item Description Miscellaneous, Magnesium Chloride Tank
HAZMAT Item Quantity 1
HAZMAT Item Size 3600 Gal

General Information

Site Sketch Diagrams



Signature

A handwritten signature in black ink, appearing to be 'J. Han' or similar, written in a cursive style.

Signed 2018-06-08 09:49:50 EDT

Asbestos Samples Submitted to TRC Lab

No

Date Submitted to Lab

2018-06-08

App Name

WinBSI HBM Survey 1.0