

# 21 Griffin Road North Windsor, CT 06095

860.298.9692 PHONE 860.298.6399 FAX

www.trcsolutions.com

June 28, 2018

Roderick Williams Assistant Corporation Counsel Office of the Corporation Counsel City of New Haven 165 Church Street-4th Floor New Haven, CT 06510

Re: Results: Third Party Review of Lead Abatement Work and

Clearance Sampling at 75 Sherman Avenue, New Haven, CT

TRC No. 308683.0001

Dear Mr. Williams:

Per order of the court, the City of New Haven (City) was to retain an independent licensed Lead Consultant to review the abatement work performed to date at the above mentioned residential dwelling, determine whether the abatement is complete as per City, State and Federal law(s), and to determine what, if any, steps are needed to successfully complete abatement for the interior and exterior of the dwelling unit to be "lead safe". TRC Environmental Corporation of Windsor, CT (TRC) was retained by the City for such services, which were performed on June 22, 2018 by Elise Barrieau, a State of Connecticut licensed Lead Inspector/Risk Assessor (#0002214).

#### **Review/On-site Visual Inspection:**

After review of the Lead Inspection Report results and Lead Abatement Plan (LAP) submitted to TRC by the City via email on June 13, 2018, the inspector/risk assessor conducted an on-site visual inspection of all work areas, as listed in the LAP. Tables 1A and 1B below list the areas and associated components TRC felt were not completed to applicable State, City and Federal regulations and/or guidelines and the subsequent appropriate corrective action(s) that should be performed.

# **TABLE 1A- INTERIOR**

LAP Line Item(s)#: 10

**Associated Area(s)/Component(s):** Kitchen; Rear entry door stop (Side C)

**Issue/Observations:** Component was Encapsulated; However, Encapsulation is not the appropriate abatement method to use on a friction/impact surface.

**Appropriate Corrective Action(s):** Either component should be replaced or the paint on the impact edge of the door stop should be stripped.

# **TABLE 1A- INTERIOR**

LAP Line Item(s)#: 85

**Associated Area(s)/Component(s):** Bathroom; Window sill (Side C)

**Issue/Observations:** Areas of chipped paint were noted throughout component. **Appropriate Corrective Action(s):** Stabilize paint and Re-Encapsulate window sill.

LAP Line Item(s)#: 133

**Associated Area(s)/Component(s):** 2<sup>nd</sup> Floor, Front Stairwell Landing; Door casings/trim (Sides A&C)

**Issue/Observations:** Door casings were facing out into a "Common Area" and were not abated. These components should be included in the LAP as they are part of the "Common Areas", also associated with the 1<sup>st</sup> Floor Dwelling unit.

**Appropriate Corrective Action(s):** Encapsulate both sets of door casings.

### **TABLE 1B-EXTERIOR**

LAP Line Item(s)#: N/A

**Associated Area(s)/Component(s):** All 2<sup>nd</sup>/3<sup>rd</sup> Floor wooden siding and associated wooden trim components

**Issue/Observations** All components/surfaces on  $2^{nd}/3^{rd}$  Floors were not abated. These components should be included in the LAP as they are part of the "Exterior" or "Common Areas", which are also associated with the  $1^{st}$  Floor Dwelling unit.

**Appropriate Corrective Action(s):** All wooden siding/trim, soffits/window casings/sills/etc. on 2<sup>nd</sup>/3<sup>rd</sup> Floor levels should be Encapsulated.

LAP Line Item(s)#: N/A

Associated Area(s)/Component(s): Wooden basement window sashes and associated trim

**Issue/Observations** The Basement window system components were not tested and were not abated. These wooden sashes/trim were noted to be of the same vintage as the rest of the exterior and most likely contain LBP. These components should be included in the LAP as they are part of the "Exterior" or "Common Areas", which are also associated with the 1<sup>st</sup> Floor Dwelling unit.

**Appropriate Corrective Action(s):** Two possible actions:

- 1. Replace all Basement window sashes and Encapsulate the associated casings/trim.
- 2. Mechanically fasten the sashes shut and Encapsulate the entire window system.

LAP Line Item(s)#: 144, 146

**Associated Area(s)/Component(s):** 1st Floor Front Porch; white railings

**Issue/Observations:** Several areas of paint on railings were noted to be chipped, including the undersides of lower railings. Loose paint chips were noted on the floor of the porch. **Appropriate Corrective Action(s):** Stabilize loose/chipped paint and Re-Encapsulate railings; HEPA-vacuum all paint chips/debris.



# **TABLE 1B-EXTERIOR**

LAP Line Item(s)#: 151

**Associated Area(s)/Component(s):** 1st Floor Front Porch; Door Threshold

**Issue/Observations:** The top surface of the threshold was enclosed with metal but the front lip was left exposed.

**Appropriate Corrective Action(s):** Either replace the threshold (to avoid future wear-tear to metal and possible trip hazards) or re-enclose entire surface of threshold.

# LAP Line Item(s)#: 136, 152, 158, 171

**Associated Area(s)/Component(s):** 1<sup>st</sup> Floor level wooden siding/trim and Window casings/sills (All Sides)

# **Issue/Observations:**

- Siding- Areas of raised puckering/blistering paint were noted where the encapsulant did not seem to properly adhere.
- Window casings/sills- Areas of chipping paint, especially on undersides of sills, were noted.

**Appropriate Corrective Action(s):** Stabilize all loose/chipped paint and Re-Encapsulate.

# LAP Line Item(s)#: 103

**Associated Area(s)/Component(s):** 1st Floor Rear Porch; Door threshold to Rear Stairs

**Issue/Observations:** The top surface of the threshold was enclosed with metal but the front lip was left exposed.

**Appropriate Corrective Action(s):** Either replace the threshold (to avoid future wear-tear to metal and possible trip hazards) or re-enclose entire surface of threshold.

#### LAP Line Item(s)#: 166

**Associated Area(s)/Component(s):** 1st Floor Rear Porch; Columns

**Issue/Observations:** Areas of chipping paint were noted. Loose paint chips were noted on the floor of the porch.

**Appropriate Corrective Action(s):** Stabilize loose/chipped paint and Re-Encapsulate; HEPA-vacuum all paint chips/debris.

#### **Dust Wipe Clearance Sampling:**

Dust wipe samples were also collected on various floor, window sill and window well surfaces in accordance with applicable state and federal guidelines. The samples will be sent, following proper chain of custody procedures, to ProScience Analytical Inc. of Woburn, MA for analysis via AAS (using SOP based on SW846-7420/3051) to obtain total lead content in micro-grams per square foot ( $\mu$ g/ft²). Table 2 found on the following page, lists the surfaces where lead-indust was found to be greater than levels stated in the U.S. Department of Housing and Urban Development's Office of Lead Hazard and Healthy Homes (OLHCHH): *Revised Dust Action Levels for Risk Assessment and Clearance; Clearance of Porch Floors*" (*Policy Guidance* #2017-01 Rev1).



TABLE 2	
Note: Threshold levels include lead content below 10 µg/ft² (int	erior floors); 100 μg/ft² (window
sills and wells); and 40 $\mu$ g/ft <sup>2</sup> (exterior porch floors).	
Kitchen- floor	128 μg/sf
Kitchen- window well	159 μg/sf
Living room- floor	215 μg/sf
Front room (A/B)- floor	65.7 μg/sf
Front room (A/B)- window well	972 μg/sf
Rear room (A/B)- floor	211 μg/sf
Rear room (A/B)- window sill	339 μg/sf
Rear room (A/B)- window well	690 μg/sf
Rear Bedroom (B)- floor	113 μg/sf
Rear Bedroom (B)- window well	460 μg/sf
Bathroom- floor	113 µg/sf
Bathroom- window well	563 μg/sf
Hallway outside Bathroom- floor	219 μg/sf
1st Floor Front Common Stair- floor	250 μg/sf
1st Floor Front Common Stair- window sill	146 μg/sf
1st Floor Front Common Stair- window well	301 μg/sf
1st Floor Rear Common Stair- floor	612 μg/sf
Rear Storage- floor	62.0 μg/sf
Rear Storage- window well	1141 μg/sf
Exterior 1st Floor Front Porch-floor	730 μg/sf
Exterior 1st Floor Rear Porch-floor	1165 µg/sf

**Recommendations:** All floor/sill and well surfaces within the areas listed above, as well as other areas where additional abatement work will be performed, should be cleaned using "Specialized Cleaning" techniques (i.e. wet methods, HEPA vacuum, etc.). These areas should then be re-tested, following applicable clearance wipe sampling protocols, by a State of Connecticut licensed lead inspector and/or risk assessor.

#### **Conditions and Limitations-Disclaimer:**

TRC has performed this Third Party Review of Lead Abatement Work and Clearance Sampling in a thorough and professional manner consistent with commonly accepted industry standards in accordance with TRC's Agreement with the City of New Haven ("Agreement"). The results reported are true and correct to the best of TRC's knowledge, and within the limitations of the instrumentation and protocols used in accordance with the Agreement. The results and opinions in this report, based solely on the conditions found at the subject property on the date of the evaluation, are valid only on that date. TRC assumes no obligation to advise the client of any changes at this residence beyond the date of the property evaluation, unless another site assessment is requested by the client.



Please find the dust wipe laboratory analysis report (including associated chain of custody forms) and applicable inspector and laboratory certifications attached to this letter. Thank you for allowing TRC the opportunity to serve your particular needs. If you have any questions regarding this report, please feel free to contact me via email as requested.

Sincerely,

Anthony Minalga, HHS Senior Project Manager/Project Designer TRC Environmental Corporation

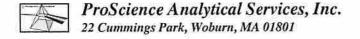
Reviewed by:

Elise Barrieau, HHS

Lead Inspector/Risk Assessor (CT#002214)

TRC Environmental Corporation





# Laboratory Report

Contact:

Anthony Minalga

Client:

TRC

Address:

21 Griffin Road North Windsor, CT 06095

Project # P.O.# 308683.0099 C308683

Project Site: City of New Haven

75 Sherman Ave

Batch #: C 296202

Date received: 6/25/2018 Date analyzed: 6/25/2018 Date of report: 6/25/2018

AIHA-LAP, LLC Lab ID: 102754

Lead Analysis In Wipes Using SOP Based on SW846-7420/3051

Results in µg/ft² (Using customer-supplied data)

Lab ID	Client ID	Sample date	Description	Result*	Reporting Limit	Comments
C 604187	<u> </u>	6/22/18	1st FL Kitchen F	128	5.0	
C 604188	2	6/22/18	1st FL Kitchen S	14.6	10	
C 604189	-3	6/22/18	1st FL Kitchen W	159	15	
C 604190	4	6/22/18	1st FL Living Rm F	215	5.0	
C 604191	- 5	6/22/18	1st FL Living Rm S	42.1	24	
C 604192	6	6/22/18	1st FL Living Rm W	59.6	15	
C 604193	7	6/22/18	1st FL Front Rm (A/B) F	65.7	5.0	
C 604194	8	6/22/18	1st FL Front Rm (A/B) S	<rl< td=""><td>24</td><td></td></rl<>	24	
C 604195	9	6/22/18	1st FL Front Rm (A/B) W	972	15	
C 604196	10	6/22/18	1st FL Rear Rm (A/B) F	311	5.0	

Simona Peavey, Tech. Manager Chemistry

Aimee Cormier, Lab Director

Page

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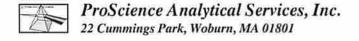
Unless otherwise indicated, all samples were received in acceptable condition.

\*All result apply only to the samples as received and are accurate to no more than three significant figures.

Unless otherwise indicated, all the quality control criteria for the method above have been met.

RL - Reporting Limit(µg/ft²) Blanks are reported in total micrograms; they are not used to correct sample results.

The EPA 403 Final Rule (40 CFR 745.63) requires that all wipe samples of settled dust shall be collected using wipes that meet ASTM E1792. The analytical results, for wipes not meeting ASTM E1792, are outside the scope of our environmental lead accreditation.



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Anthony Minalga

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TRC

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21 Griffin Road North

Windsor, CT 06095

Batch #: C 296202

Date received: 6/25/2018

Date analyzed: 6/25/2018

Date of report: 6/25/2018

AIHA-LAP, LLC Lab ID: 102754

Project #

308683.0099

P.O.#

C308683

Project Site: City of New Haven

75 Sherman Ave

# Lead Analysis In Wipes Using SOP Based on SW846-7420/3051

Results in ug/ft2

Lab ID	Client ID	Sample date	Description	Result	Reporting Limit	Comments
C 604197	11		1st FL Rear Rm (A/B) S	339	9.7	
C 604198	12	6/22/18	1st FL Rear Rm (A/B) W	690	15	
C 604199	13	6/22/18	1st FL Rear Bed (B) F	113	5.0	
C 604200	14	6/22/18	1st FL Rear Bed (B) S	24.9	9.8	
C 604201	15	6/22/18	1st FL Rear Bed (B) W	460	15	
C 604202	16	6/22/18	1st FL Bathroom F	113	5.0	
C 604203	17	6/22/18	1st FL Bathroom S	94.0	13	
C 604204	18	6/22/18	1st FL Bathroom W	563	15	
C 604205	19	6/22/18	1st FL Hall o/s Bath F	219	5.0	1
C 604206	20	6/22/18	1st FL Front Stair F	250	5.0	

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

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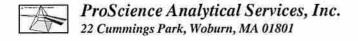
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21 Griffin Road North

Windsor, CT 06095

Batch #: C 296202

Date received: 6/25/2018

Date analyzed: 6/25/2018

Date of report: 6/25/2018

AIHA-LAP, LLC Lab ID: 102754

Project #

308683.0099

P.O.#

C308683

Project Site: City of New Haven

75 Sherman Ave

# Lead Analysis In Wipes Using SOP Based on SW846-7420/3051

Results in µg/ft2

Lab ID	Client ID	Sample date	Description	Result	Reporting Limit	Comments
C 604207	21	6/22/18	1st FL Front Stair S	146	30	
C 604208	22	6/22/18	1st FL Front Stair W	301	20	
C 604209	23	6/22/18	1st FL Rear Stair F	612	5.0	
C 604210	24	6/22/18	1st FL Rear Storage F	62.0	5.0	
C 604211	25	6/22/18	1st FL Rear Storage S	20.7	19	
C 604212	26	6/22/18	1st FL Rear Storage W	1141	15	
C 604213	27	6/22/18	FB	<rl< td=""><td>5.0</td><td></td></rl<>	5.0	
C 604214	28	6/22/18	FB	<rl< td=""><td>5.0</td><td></td></rl<>	5.0	

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

Page

3

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CTRC

21 GRIFFIN ROAD NORTH

WINDSOR, CONNECTICUT 06095

TELEPHONE (860) 298-9692 FAX (860) 298-6380

# CHAIN OF CUSTODY

Edition: September 2007 Supersede Previous Edition

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21 GRIFFIN ROAD NORTH

WINDSOR, CONNECTICUT 06095

TELEPHONE (860) 298-9692 FAX (860) 298-6380

CHAIN OF CUSTODY

Edition: September 2007

Supersede Previous Edition

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21 GRIFFIN ROAD NORTH

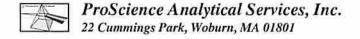
WINDSOR, CONNECTICUT 06095 TELEPHONE (860) 298-9692 FAX (860) 298-6380

# CHAIN OF CUSTODY

Edition: September 2007 Supersede Previous Edition

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# Laboratory Report

Contact:

Anthony Minalga

Client:

TRC

Address: 21 Griffin Road North Windsor, CT 06095

Project # P.O.#

308683.0099

C308683

Project Site: City of New Haven

75 Sherman Ave

Date analyzed: 6/25/2018 Date of report: 6/25/2018

Batch #: C 296201

Date received: 6/25/2018

AIHA-LAP, LLC Lab ID: 102754

# Lead Analysis In Wipes Using SOP Based on SW846-7420/3051

Results in µg/ft² (Using customer-supplied data)

Lab ID	Client ID	Sample date	Description	Result*	Reporting Limit	Comments
C 604185	1	6/22/18	1st FL Front Exterior Porch	730	5.0	
C 604186	2	6/22/18	1st FL Rear Exterior Porch	1165	5.0	
					1	

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

Unless otherwise indicated, all samples were received in acceptable condition.

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CTRC

21 GRIFFIN ROAD NORTH

WINDSOR, CONNECTICUT 06095 TELEPHONE (860) 298-9692 FAX (860) 298-6380

# CHAIN OF CUSTODY

Edition: September 2007 Supersede Previous Edition

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**ELISE E BARRIEAU** PO BOX 73 SIMSBURY, CT 06070-0073

Dear Licensed/Certified Professional, Attached you will find your validated license/certification for the coming year. Should you have any questions about your license/certificate renewal, please do not hesitate to write or call:

Department of Public Health

(860) 509-7603

P.O. Box 340308

**ELISE E BARRIEAU** 

Hartford, CT 06134-0308

https://ct.gov/dph/license

Sincerely,

aylur

IRaul Pino, MD, MPH, COMMISSIONER **Department of Public Health** 

# STATE OF CONNECTICUT

DEPARTMENT OF PUBLIC HEALTH

THE INDIVIDUAL NAMED BELOW IS CERTIFIED BY THIS DEPARTMENT AS A Lead Inspector Risk Assessor

> LICENSE NO. 2214

**CURRENT THROUGH** 06/30/2019

VALIDATION NO. 13083446

COMMISSIONER **SIGNATURE** 

EMPLOYER'S COPY

# STATE OF CONNECTICUT DEPARTMENT OF PUBLIC HEALTH

NAME

#### ELISE E BARRIEAU

VALIDATION NO. 13083446

CERTIFICATE NO.

CURRENT THROUGH 2214 06/30/2019

PROFESSION

Lead Inspector Risk Assessor

2 audino

SIGNATURE

# INSTRUCTIONS:

- 1. Detach and sign each of the cards on this form
- 2. Display the large card in a prominent place in your office or place of business.
- 3. The wallet card is for you to carry on your person. If you do not wish to carry the wallet card, place it in a secure place.
- 4. The employer's copy is for persons who must demonstrate current licensure/certification in order to retain employment or privileges. The employer's card is to be presented to the employer and kept by them as a part of your personnel file. Only one copy of this card can be supplied to you.

WALLET CARD

# STATE OF CONNECTICUT DEPARTMENT OF PUBLIC HEALTH

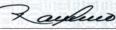
VALIDATION NO. 13083446

NAME ELISE E BARRIEAU CERTIFICATE NO. 2214

CURRENT THROUGH 06/30/2019

PROFESSION

Lead Inspector Risk Assessor



SIGNATURE

COMMISSIONER

# STATE OF CONNECTICUT

DEPARTMENT OF PUBLIC HEALTH

PURSUANT TO THE PROVISIONS OF THE GENERAL STATUTES OF CONNECTICUT

THE INDIVIDUAL NAMED BELOW IS CERTIFIED BY THIS DEPARTMENT AS A

LEAD PLANNER/PROJECT DESIGNER

ANTHONY J. MINALGA

CERTIFICATE NO.

002147

CURRENT THROUGH

03/31/19

VALIDATION NO.

03-663326

SIGNATURE 6

TRC Environmental Corp.

Laylur

# STATE OF CONNECTICUT

DEPARTMENT OF PUBLIC HEALTH

THE INDIVIDUAL NAMED BELOW IS CERTIFIED
BY THIS DEPARTMENT AS A
Lead Consultant Contractor

LICENSE NO.

605

CURRENT THROUGH

01/31/2019

VALIDATION NO.

12666357

SIGNATURE

COMMISSIONER

# 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, IN	ROSCIENC	E ANAL	YTICAL	SERVICES.	. INC
------------------------------------	----------	--------	--------	-----------	-------

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

#### SOLID WASTE/SOIL Examination for:

**Total Metals ASBESTOS** Bulk Identification (PLM + TEM)

ENVIRONMENTAL HEALTH & HOUSING Lead In Paint Lead (Paint) in Soil

Lead in Dust Wipes

#### SEE COMPUTER PRINT-OUT FOR SPECIFIC TESTS APPROVED

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



Registration # PH-0209

Air-Fiber Counting (PCM + TEM)

SUZANNE BLANCAFLOR, MS CHIEF, ENVIRONMENTAL HEALTH SECTION



AIHA Laboratory Accreditation Programs, LLC

acknowledges that

#### ProScience Analytical Services, Inc.

22 Cummings Park, Woburn, MA 01801-2122

Laboratory ID: 102754
along with all premises from which key activities are performed, as listed above, has fulfilled the requirements of the AIHA Laboratory Accreditation Programs (AIHA-LAP), LLC accreditation to the ISO/IEC 17025:2005 international standard, General Requirements for the Competence of Testing and Calibration Laboratories in the following:

#### LABORATORY ACCREDITATION PROGRAMS

1	INDUSTRIAL HYGIENE	Accreditation Expires: June 01, 2020
1	ENVIRONMENTAL LEAD	Accreditation Expires: June 01, 2020
	ENVIRONMENTAL MICROBIOLOGY	Accreditation Expires:
$\bar{\Box}$	FOOD	Accreditation Expires:
$\Box$	UNIQUE SCOPES	Accreditation Expires:

Specific Field(s) of Testing (FoT)/Method(s) within each Accreditation Program for which the above named laboratory maintains accreditation is outlined on the attached Scope of Accreditation. Continued accreditation is contingent upon successful on-going compliance with ISO/IEC 17025:2005 and AIHA-LAP, LLC requirements. This certificate is not valid without the attached Scope of Accreditation. Please review the AIHA-LAP, LLC website (www.aihaaccreditedlabs.org) for the most current Scope.

Bet Bair Elizabeth Bair

Chairperson, Analytical Accreditation Board

Cheryl O. Morton

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Managing Director, AIHA Laboratory Accreditation Programs, LLC

Revision 16: 03/21/2018

Date Issued: 03/30/2018