

July 18, 2023

Mr. Angelus Papageorge
Executive Director of Operations
Fairfield Public Schools
501 Kings Highway East, Suite 210
Fairfield, CT 06824
apapageorge@fairfieldschools.com

Re: Asbestos Abatement Clearance Air Sampling
Fairfield Ludlowe High School – Bathrooms 117/118
785 Unquowa Road, Fairfield, CT
Fuss & O'Neill Project No. 20110458.A40

Dear Mr. Papageorge:

At your request, Fuss & O'Neill, Inc. (Fuss & O'Neill) has prepared this summary letter following completion of the asbestos abatement project conducted in Bathrooms 117/118 at the Fairfield Ludlowe High School located at 785 Unquowa Road in Fairfield, Connecticut (the "Site"). The scope of work involved the removal of 100 linear feet of fiberglass insulation/asbestos-containing mudded pipe fitting insulation to support bathroom renovations at the Site. The project began on July 6, 2023, and was completed on July 7, 2023.

Under the supervision of Fuss & O'Neill's Senior Environmental Analyst, Eduardo Miguel Marques, Fuss & O'Neill representatives, Mr. Thomas Mulvehill, Ms. Julia Grounds and Ms. Vikki DeVoe-LeMoine, a State of Connecticut Department of Public Health (CTDPH) licensed Asbestos Project Monitor performed the post abatement re-occupancy air sampling. Fuss & O'Neill Project Monitor License and Accreditation are included in *Attachment A*.

Bestech Inc. of Ellington, Connecticut conducted the asbestos abatement project. Asbestos abatement was performed within a negative pressure enclosure.

Upon commencement of abatement activities, background air samples were collected for analysis using Phase Contrast Microscopy (PCM). These background samples were collected at locations such as the entrance to the worker decontamination facility and outside critical barriers. These samples were collected and analyzed in order to monitor the air quality outside the containment during the abatement process. PCM air samples were analyzed by a trained Asbestos Project Monitor listed on the Asbestos Analyst's Registry (AAR) maintained by the American Industrial Hygiene Association (AIHA). Please refer to *Attachment B* for the Area Air Monitoring Worksheet.

59 Elm Street Suite 500 New Haven, CT 06510 † 203.374.3748 800.286.2469 f 860.533.5143

www.fando.com

Connecticut
Maine
Massachusetts
New Hampshire
New York
Rhode Island
Vermont



Mr. Angelus Papageorge July 18, 2023 Page 2

Following the completion of final cleaning and encapsulation of the work area, aggressive final air clearance sampling was performed inside the work area to comply with state and federal regulatory requirements. The work area passed a pre-sealant visual inspection prior to work area encapsulation by the Contractor. Please refer to *Attachment C* for a copy of the Final Visual Inspection Form.

Following encapsulation, aggressive final air clearance sampling by PCM was conducted in accordance with the requirements of the CTDPH Standards for Asbestos Abatement (19a-332a-1 through 19a-332a-16) and the EPA Asbestos Hazard Emergency Response Act (AHERA) Regulation (40 CFR Part 763 Final Rule and Notice). PCM air samples were analyzed by a trained Asbestos Project Monitor listed on the AAR maintained by the AIHA. The work area passed final air clearance. Please refer to *Attachment D* for the Final Air Clearance Report.

If you have any questions regarding this summary letter, please do not hesitate to contact Eduardo Miguel Marques at (860) 783-4751.

Report prepared by:

Eduardo Miguel Marques Senior Environmental Analyst

Attachments

Report reviewed by:

Kathleen C. Pane

Associate | Department Manager



Attachment A

Fuss & O'Neill Project Monitor License and Accreditation

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
ASBESTOS CONSULTANT-PROJECT MONITOR

EDUARDO M. MARQUES

CERTIFICATE NO.

000376

CURRENT THROUGH

02/29/24

VALIDATION NO. 03-015373

SIGNATURE

COMMISSIONE

CERT#: PM-200-Virtual.636

CHEMSCOPE TRAINING DIVISION ASBESTOS PROJECT MONITOR REFRESHER 8HOUR TRAINING CERTIFICATE Eduardo Miguel Marques

146 Hartford Road, Manchester CT

Has attended an 8hour course on the subject discipline on

10/07/2022 and has passed a written examination.

"The person receiving this certificate has completed the requisite training required for asbestos accreditation as a project monitor under TSCA Title II"

Course topics include all the EPA MAP curriculum items. The training course has been accredited by the State of Connecticut.

The course meets the requirements of DPH Regulation 20-440-7 and the EPA Model Accreditation Plan.

Examination Score: 93% Exam Date: 10/07/2022 Expiration Date: 10/07/2023

> Daniel Sullivan Training Manager

Chem Scope, Inc. 15 Moulthrop Street North Haven CT 06473 Phone: 203.865.5605 www.chem-scope.com

1004640 57 1564

-C01-P04646-I



VIKKI DEVOE-LEMOINE 556 MOOSE HILL RD MONROE CT 06468-2413

Dear VIKKI DEVOE-LEMOINE.

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

Department of Public Health P.O. Box 340308 M.S.#12MQA Hartford, CT 06134-0308

(860) 509-7603 oplc.dph@ct.gov www.ct.gov/dph/license

Sincerely,

MANISHA JUTHANI, MD, COMMISSIONER DEPARTMENT OF PUBLIC HEALTH

namohabitham

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

ASBESTOS CONSULTANT-PROJECT MONITOR

VIKKI DEVOE-I EMOINE

CERTIFICATE NO. 000877

CURRENT THROUGH

10/31/23

VALIDATION NO.

03-994908

manshapitham COMMISSIONER

EMPLOYER'S COPY

STATE OF CONNECTICUT DEPARTMENT OF PUBLIC HEALTH

VIKKI DEVOE-LEMOINE

VALIDATION NO.

CERTIFICATE NO. 000877

CURRENT THROUGH 10/31/23

03-994908

PROFESSION

ASBESTOS CONSULTANT-PROJECT MONITOR

manistrapetham

INSTRUCTIONS:

- 1. Detach and sign each of the eards on this form
- 2. Display the large eard this perentinent place in your office or place of instress.

 3. The wallet eard 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 sampled to you.

WALLET CARD

STATE OF CONNECTICUT DEPARTMENT OF PUBLIC HEALTH

NAME

VIKKI DEVOE-LEMOINE

CURRENT THROUGH

VALIDATION NO. 03-994908

CERTIFICATE NO. 000877

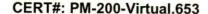
10/31/23

PROFESSION

ASBESTOS CONSULTANT-PROJECT MONITOR

eMone

manstrapitham



CHEMSCOPE TRAINING DIVISION

ASBESTOS PROJECT MONITOR REFRESHER 8HOUR TRAINING CERTIFICATE

Vikki DeVoe-LeMoine

59 Elm Street, Suite 500, New Haven CT

Has attended an 8hour course on the subject discipline on

04/21/2023 and has passed a written examination.

"The person receiving this certificate has completed the requisite training required for asbestos accreditation as a project monitor under TSCA Title II"

Course topics include all the EPA MAP curriculum items. The training course has been accredited by the State of Connecticut.

The course meets the requirements of DPH Regulation 20-440-7 and the EPA Model Accreditation Plan.

Examination Score: 99% Exam Date: 04/21/2023 Expiration Date: 04/21/2024

> Daniel Sullivan Training Manager

Chem Scope, Inc. 15 Moulthrop Street North Haven CT 06473 Phone: 203.865.5605 www.chem-scope.com



CHEMSCOPE TRAINING DIVISION

ASBESTOS PROJECT MONITOR INITIAL 40HOUR TRAINING CERTIFICATE

Julia Grounds

59 Elm Street, Suite 500, New Haven CT

Has attended a 40hour course on the subject discipline on

05/08, 05/09, 05/12, 05/15 & 05/16/2023 and has passed a written examination.

"The person receiving this certificate has completed the requisite training required for asbestos accreditation as a project monitor under TSCA Title II"

Course topics include all the EPA MAP curriculum items. This training course has been accredited by the State of Connecticut.

This training course has been accredited by the State of Connecticut.

The course meets the requirements of DPH Regulation 20-440-7 and the EPA Model Accreditation Plan.

Examination Score: 98% Exam Date: 05/16/2023 Expiration Date: 05/16/2024

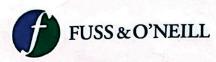
Daniel Sullivan
Training Manager

Chem Scope, Inc. 15 Moulthrop Street North Haven CT 06473 Phone: 203.865.5605 www.chem-scope.com



Attachment B

Area Air Monitoring Worksheet



PCM Air Monitoring Worksheet For Asbestos Analysis

Form 7400-05 Edition June 2019 Supersedes previous editions

59 Elm Street, Suite 500, New Haven, CT 06510-2047

Project Number: 2011 Project Manager: EMY	0422° A40	Rotome Microsc	eter Numberter Cal. Description of the Number Number 1 (1) and the Numbe	ate: 4/5/ ber:	Cassette Lo 2023 1019		11000		Analyst Signat	ure: Vikki s	Selpe-Les	ODL AA	_{R#} 29089	0
Sample ID Number	Sample Location	Activity Code/ Comment	Sample	e Time Off	Sample Duration (Minutes)	Flo	w Rate ((LPM)	Total Volume (Liters)	Limit of Det. Fib/cc (=2.7/ Total Vol.)	Fiber Count Fib/Flds	Fiber Density (Fib/mm²)	Fiber Conc. (Fibers/cc)	
10-M-EEBOTE	Field Blank #1	Subm	it at least 2	2 field blan	ks or 10% of t	he num	ber of				1/100	17.01		
176533-TM-07	Field Blank #2	samp	les collecte	ed in 1 wor	k shift.						1/100	17.01		
70523-TM-03	Outside Bothson 117/18	צילו	7:29	9:39	136	9.5	9.5	7.5	1235	0,002		British Alexander (St. 1984)	0.0052	
170523-TM-0	00/5/do Bodham 117/18	3	10:01	1321	200	6	G	6	The same of the same of	0.0023	spring of the Contributions	description of a following the same of the	Marin Committee	*
70623 -TM-05	Outside Balhoom 117/118	3	1332	i \$ 57	145	9	9.5	9.25	1 1	The same of the sa	10/100	11.46	0.003	
				1							7 y			
				5										
070623-TM-0	Duplicate Count										32/10	0 39,49	0.0136	še.
	OSH 7400 Issue 2, 8/15/94 Method Limit of Det	ection: 5.5 I	ibers/100 l	Fields	IC				ontainment			Project Act		
	piece 0.8µ mixed cellulose ester PCM Air Monitor rs/mm2) = (SAMPLE fibers/field) – (Average BLA (0.00785mm²/field)	NK fibers/	field)		Deco				ritical Barrier nation Facility			Code Ba	Type ckground tup	
CONCENTRATION (E	ibers/cc) = (SAMPLE fibers/field) – (Average BLA (0.00785mm/field) x liters x 10	NK fibers/f	field) x (385)) mm²/filter	1 (5-20 fi	bers/100 fi		Intra 0.40 0.45	0.	ter Lab Sr 50 39		4 C	uring learance nvironmental	

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Q:\EnviroScience\Admin\FORMS\Asbestos\Project Monitoring\New Haven\PCM Air Mon Field Analysis_Revised_20220628.doc



Attachment C

Final Visual Inspection Form

	FUSS & O'NEILL
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Final Visual Inspection Form

						A	sbestos /	Abatement
Date: 7/7/23 ☑ Removal ☐ Encapsulation ☐ Enclosure ☐ Repair ☐ Cleanup								
PROJECT NAME:	Fairfic					PROJECT NO	: 20110	458.A40
SITE LOCATION:			va Rd.		LDING:	HS		PASS
WORK AREA:	bathr	moo	117/11	8				□FAIL
CONTRACTOR:	BesTo	dh.						LIAIL
Meg Pressure					ag 🗆 O	ther (Describ	e Below)	□ None
MATERIALS ABAT		SPECIFIC	WORK AF	REA:				
1. # pipe fi	Hng/	QTY:	100 LF	2.			QTY:	
3. insu	ation	QTY:		4.			QTY:	
5.		QTY:		6.			QTY:	
7.		QTY:		8.			QTY:	
9.	/	QTY:		10.			QTY:	
SUSPECT ACM R	EMAINING II	CONTA	INMENT NO	T SPECIF	IED FOR	REMOVAL		
1.		QTY:		2.			QTY:	
3.		QTY:		4.			QTY:	
SURFACES INSPE	CTED							
Instruction	s: Check:	surfaces	that pass	. Circle	surface	es that fail.	Strike thro	ugh N/A.
☐ Floor	☑ Horizo	ontal Sur	faces D	Pipes	1	☐ Mechanica	I Equipme	ent
Duct Work	☑ Vertice	al Surfac				☐ Contractor		
Fixtures	☑ Enclos	sed Item		aste Loa				
FIELD OBSERVAT								
		1 00	101010	J. St	ahr	ered		
no visible ACM debris/dust observed.								
			0	8	@ PC	usamples		
			1 50 G		- h	here nice	fittimes	los lotton
		7.34				here pipe	noved	A BOOTO
Work Area			INLAIN	accon				
CLEARANCE:	☑ PCM		ITEM	☐ Visu	al Only	□ No	ne Perforn	ned
ACKNOWLEDGEMENT								
I acknowledge that I inspected this work area on this day.								
Fuss & O'Neill Inspector: JUICI Grands 9888 Eduardo Migue								
PRINTED SIGNATURE Margues								
I have read and understand the inspection results.								
Contractor's Supervisor: Author Dulid Alvarie								
Contractor 5 Oup	PRINTED SIGNATURE							



Attachment D

Final Air Clearance Report



59 Elm Street, Suite 500 - New Haven, CT 06510

PCM Air Monitoring Worksheet For Asbestos Analysis

Form 7400-05
Edition June 2019
Supersedes previous editions

Project Name:	Fairfield Ludlowe High School	Project Manager:	Eduardo Miguel Marques	Sampler Name:	Julia Grounds / Eduardo Miguel Marques
Project Number:	20110458.A40	Rotometer #/Cal. Date:	101818 4/5/23	Sample Date:	7/7/2023
Building Name/#:	Fairfield Ludlowe High School	Cassette Lot #/Manufacturer:	32726 Zefon	Analyst Name:	Vikki DeVoe-LeMoine AAR#: 290890
Site Address:	785 Unquowa Rd. Fairfield, CT	 Microscope #:	101980	Analysis Date:	7/7/2023
Work Area:	Bathroom 117/118	HSE/NPL Checked: ⊠ Y / □ N	Phase Rings Aligned: ☒ Y / ☐ N	Analyst Signature:	Vilace fellow

Sample ID #	Completentian	Activity	Sampl	e Time	Sample	Flov	/ Rate (LPI	M)	Total Volume	Limit of	ection (Fibers		Fiber Density	Fiber Conc.
(##-Date-Initials)	Sample Location	Code	On	Off	Duration (Minutes)	Pre	Post	Avg.	(Liters)	(Fibers/cc)			(Fibers/mm ²)	(Fibers/cc)
06-070723-JRG	Field Blank #1		Sub	mit at lea	st 2 field blanks	or 10% of the n	umber of				1	100	<7	
07-070723-JRG	Field Blank #2		sam	ples colle	cted in 1 work sl	hift.					1	100	<7	
01-070723-JRG	Inside containment	4	8:16	9:49	93	13.4	13.4	13.40	1246.20	0.0022	8	100	8.92	0.0028
02-070723-JRG	Inside containment	4	8:18	9:44	86	14.3	13.4	13.85	1191.10	0.0023	8	100	8.92	0.0029
03-070723-JRG	Inside containment	4	8:19	9:42	83	14.8	13.9	14.35	1191.05	0.0023	10	100	11.46	0.0037
04-070723-JRG	Inside containment	4	8:20	9:43	83	14.8	14.3	14.55	1207.65	0.0022	7	100	7.64	0.0024
05-070723-JRG	Inside containment	4	8:21	9:47	86	14.3	13.9	14.10	1212.60	0.0022	8	100	8.92	0.0028
03-070723-JRG	Duplicate										7	100	7.64	0.0025

Reference Method: NIOSH 7400 Issue 2,8/15/94 Method Limit of Detection: 5.5 Fibers/100 Fields Sample type: 25 mm 3 piece 0.8µ mixed cellulose ester PCM Air Monitor FIBER DENSITY (Fibers/mm2) = (SAMPLE fibers/field) - (Average BLANK fibers/field)

0.0785mm²/field)

 $\label{eq:concentration} \begin{aligned} \text{CONCENTRATION (fibers/cc)} = & \underline{\text{(SAMPLE fibers/field - (Average BLANK fibers/field) x (385) mm}^2 / \text{filter} \\ & \underline{\text{(0.0078mm/field) x liters x 1000 cc/liter}} \end{aligned}$

IC	Inside Containment
OCB	Outside Critical Barrier
Decon	Decontamination Facility

Range	Intra Lab Sr	Inter Lab Sr
1 (5-20 Fibers/100 fields)	0.40	0.50
2(>20-50 Fibers/100 fields)	0.45	0.39
3 (>50 Fibers/100 fields)	0.26	0.35

Project Activity:

Code	Type
1	Background
2	Setup
3	During
4	Clearance
5	Environmental
6	Personal
7	