

Mystic Air Quality Consultants, Inc.

1204 North Road (Rt. 117) Groton, Connecticut 06340

February 10, 2020

Colchester Pubic Schools 127 Norwich Avenue, Suite 202 Colchester, Connecticut 06415

Attn: Mr. Mario Hurtado

Director of Educational Operations

Re: Colchester Public Schools Radon 5 Year Retesting

Locations: William Johnston Middle School & Colchester Elementary

Sampling Period: January 6, 2020 through January 10, 2020

Encl: (1) Summary Sheets

(2) Laboratory Data

(3) State of Connecticut Radon Testing Report Forms

(4) Certifications

Dear Mr. Hurtado:

As requested, between the dates of January 6, 2020 and January 10, 2020, Mystic Air Quality Consultants, Inc. conducted comprehensive radon sampling in two buildings belonging to the Colchester Public Schools. The testing was conducted in accordance with Connecticut General Statute (CGS) 10-220(d), the Connecticut Department of Public Health Radon Program, and the United States Environmental Protection Agency.

The sampling was conducted in the William Johnston Middle School and the Colchester Elementary School. Since the previous round of sampling, the William Johnston Middle School has undergone extensive renovations. The center section of the school was almost completely changed with extensive slab modification, addition, and a second floor added. The two outer wings also underwent renovations but was much more cosmetic with minimal slab alteration on the cafeteria wing. Based upon these changes, every first-floor room, fitting the testing criteria, in the center section of the school were tested. The existing outer wing footprints were retested following the ten percent testing model. The previous school had a sub slab depressurization, radon mitigation system, which was removed during the renovation activities. The previous location of this falls within the new center section, which was comprehensively sampled.

Communications (24 hours):

Office: (860) 449-8903 FAX: (860) 449-8860 Toll Free: 1 (800) 247-7746

website: www.mysticair.com e-mail:maqc2@aol.com

The sampling conducted at Colchester Elementary School was conducted in ten percent of the previously sampled locations. These testing locations were mainly composed of classrooms, laboratories, cafeterias, libraries, auditoriums, shops, gymnasiums, and staff offices. Testing was conducted during a time of HVAC heating, closed building conditions, and the absence of construction activities.

The sampling was conducted with passive short-term radon testing kits utilizing activated charcoal collection media. Following the protocols listed above, the test kits were deployed one per every 2000 square feet of continuous room space. Blind duplicate samples were deployed in ten percent of the sample locations. The duplicates were systematically arranged to measure the precision of the sampling. Additionally, blank samples were submitted to measure the accuracy of the testing. These blank samples were not exposed but were shipped, handled, and analyzed in the same fashion as the test kits. The blank samples were conducted in five percent of the sample locations. The kits remained in the test rooms for a three-day sampling period. Upon collection the samples were sent to a National Radon Safety Board (NSRB) accredited laboratory for analysis.

Enclosure (1) contains the summary sheet for each school tested. During the time of the survey, none of the sample locations returned results at or above the EPA and State of Connecticut action level of 4.0 picocuries per liter of air. At this time no further testing is required this year for the listed schools. Please note that according to the Connecticut General Statute (CGS) 10-220(d), testing is required every five years from this point on regardless of the results.

Enclosure (3) contains the State of Connecticut Radon Testing Report Forms. These forms provide a summary of the sampling activities and results to the State Department of Health. The testing company will submit these forms to the State within five working days. It is required that a copy of this report be kept available in the main office for staff and parental review.

If you have any questions or concerns please do not hesitate to contact me directly.

Sincerely,

Christopher J. Eident, CIH, CSP, RS, CEO

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Mystic Air Quality Consultants, Inc. 1204 North Road, Groton, Connecticut 06340 (860) 449-8903

Location: William Johnston Middle School

360 Norwich Avenue

Colchester, Connecticut 06145

Results Above the EPA and CT DPH Action Level of 4.0 pCi/L

Location	Sample Number	Initial Result	Follow Up Result	Average
NONE	NONE	NONE	NONE	NONE
Action Level		≥4.0 pCi/L	-	

Mystic Air Quality Consultants, Inc.

1204 North Road, Groton, Connecticut 06340 (860) 449-8903

Location: Colchester Elementary School

315 Halls Hill Road

Colchester, Connecticut 06415

Results Above the EPA and CT DPH Action Level of 4.0 pCi/L

Location	Sample Number	Initial Result	Follow Up Result	Average
NONE	NONE	NONE	NONE	NONE
Action Level		≥4.0 pCi/L		

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		Ctone Time	End Data	End Time	Temp	Facility	Ruilding	Room	Project III	Floor Result	
17	2020-01-06	11:00 am	li.	2:00 pm	70	- 9	COLCHESTER ELEMENTARY SCHOOL	Н33	ER PUBLIC SCHOOLS	- 1	
9	2020-01-06	11:00 am	2020-01-09	2:00 pm	70	COLCHESTER ELEMENTARY SCHOOL	COLCHESTER ELEMENTARY SCHOOL	PK2	COLCHESTER PUBLIC SCHOOLS 1	< 0.3	-
ŏ	2020-01-06	11:00 am	2020-01-09	2:00 pm	70	COLCHESTER ELEMENTARY SCHOOL	COLCHESTER ELEMENTARY SCHOOL	K 10	COLCHESTER PUBLIC SCHOOLS 1	1.1	
i 2	2020-01-06	11:00 am	2020-01-09	2:00 pm	70	COLCHESTER ELEMENTARY SCHOOL	COLCHESTER ELEMENTARY SCHOOL	D33	COLCHESTER PUBLIC SCHOOLS 1	0.8	
77	2020-01-06	11:00 am	2020-01-09	2:00 pm	70	COLCHESTER ELEMENTARY SCHOOL	COLCHESTER ELEMENTARY SCHOOL	3	COLCHESTER PUBLIC SCHOOLS 1	0.9	
ŏ	2020-01-06	11:00 am	2020-01-09	2:00 pm	70	COLCHESTER ELEMENTARY SCHOOL	COLCHESTER ELEMENTARY SCHOOL	F21	COLCHESTER PUBLIC SCHOOLS 1	0.6	
; 9	2020-01-06	11:00 am	2020-01-09	2:00 pm	70	COLCHESTER ELEMENTARY SCHOOL	COLCHESTER ELEMENTARY SCHOOL	F10	COLCHESTER PUBLIC SCHOOLS 1	< 0.3	-
ŏ	2020-01-06	11:00 am	2020-01-09	2:00 pm	70	COLCHESTER ELEMENTARY SCHOOL	COLCHESTER ELEMENTARY SCHOOL	GC-3F	COLCHESTER PUBLIC SCHOOLS 1	1.0	
11	2020-01-06	11:00 am	2020-01-09	2:00 pm	70	COLCHESTER ELEMENTARY SCHOOL	COLCHESTER ELEMENTARY SCHOOL	GC-14	COLCHESTER PUBLIC SCHOOLS 1	< 0.3	
ಜ	2020-01-07	3:00 pm	2020-01-10	12:00 pm	70	WILLIAM J. JOHNSTON MIDDLE SCHOOL	WILLIAM J. JOHNSTON MIDDLE SCHOOL	610	COLCHESTER PUBLIC SCHOOLS 1	< 0.3	~
Z.	2020-01-07	3:00 pm	2020-01-10	12:00 pm	70	WILLIAM J. JOHNSTON MIDDLE SCHOOL	WILLIAM J. JOHNSTON MIDDLE SCHOOL	408D	COLCHESTER PUBLIC SCHOOLS 1	0.6	>
ζ,	2020-01-07	2:00 pm	2020-01-10	11:00 am	70	WILLIAM J. JOHNSTON MIDDLE SCHOOL	WILLIAM J. JOHNSTON MIDDLE SCHOOL	307	COLCHESTER PUBLIC SCHOOLS 1	< 0.3	•
გ.	2020-01-07	3:00 pm	2020-01-10	12:00 pm	70	WILLIAM J. JOHNSTON MIDDLE SCHOOL	WILLIAM J. JOHNSTON MIDDLE SCHOOL	612	COLCHESTER PUBLIC SCHOOLS 1	0.6	∩F
i7	2020-01-07	3:00 pm	2020-01-10	12:00 pm	70	WILLIAM J. JOHNSTON MIDDLE SCHOOL	WILLIAM J. JOHNSTON MIDDLE SCHOOL	615	COLCHESTER PUBLIC SCHOOLS 1	< 0.3	
80	2020-01-07	3:00 pm	2020-01-10	12:00 pm	70	WILLIAM J. JOHNSTON MIDDLE SCHOOL	WILLIAM J. JOHNSTON MIDDLE SCHOOL	611	COLCHESTER PUBLIC SCHOOLS 1	< 0.3	= 1
9 9	2020-01-07	2:00 pm	2020-01-10	11:00 am	70	WILLIAM J. JOHNSTON MIDDLE SCHOOL	WILLIAM J. JOHNSTON MIDDLE SCHOOL	117	COLCHESTER PUBLIC SCHOOLS 1	< 0.3	
70	2020-01-07	2:00 pm	2020-01-10	11:00 am	70	WILLIAM J. JOHNSTON MIDDLE SCHOOL	WILLIAM J. JOHNSTON MIDDLE SCHOOL	111	COLCHESTER PUBLIC SCHOOLS 1	< 0.3	
11	2020-01-07	2:00 pm	2020-01-10	11:00 am	70	WILLIAM J. JOHNSTON MIDDLE SCHOOL	WILLIAM J. JOHNSTON MIDDLE SCHOOL	107	COLCHESTER PUBLIC SCHOOLS 1	< 0.3	0
72	2020-01-07	2:00 pm	2020-01-10	11:00 am	70	WILLIAM J. JOHNSTON MIDDLE SCHOOL	WILLIAM J. JOHNSTON MIDDLE SCHOOL	<u>1</u> 04	COLCHESTER PUBLIC SCHOOLS 1	< 0.3	
3	2020-01-07	2:00 pm	2020-01-10	11:00 am	70	WILLIAM J. JOHNSTON MIDDLE SCHOOL	WILLIAM J. JOHNSTON MIDDLE SCHOOL	BLANK	COLCHESTER PUBLIC SCHOOLS 1	< 0.3	
15	2020-01-06	11:00 am	2020-01-09	2:00 pm	70	COLCHESTER ELEMENTARY SCHOOL	COLCHESTER ELEMENTARY SCHOOL	BLANK	COLCHESTER PUBLIC SCHOOLS 1	< 0.3	_
%	2020-01-07	2:00 pm	2020-01-10	11:00 am	70	WILLIAM J. JOHNSTON MIDDLE SCHOOL	WILLIAM J. JOHNSTON MIDDLE SCHOOL	109	COLCHESTER PUBLIC SCHOOLS 1	< 0.3	-
79	2020-01-07	2:00 pm	2020-01-10	11:00 am	70	WILLIAM J. JOHNSTON MIDDLE SCHOOL	WILLIAM J. JOHNSTON MIDDLE SCHOOL	505	COLCHESTER PUBLIC SCHOOLS 1	< 0.3	-
ŏ	2020-01-07	2:00 pm	2020-01-10	11:00 am	70	WILLIAM J. JOHNSTON MIDDLE SCHOOL	WILLIAM J. JOHNSTON MIDDLE SCHOOL	506	COLCHESTER PUBLIC SCHOOLS 1	< 0.3	-
13	2020-01-07	2:00 pm	2020-01-10	11:00 am	70	WILLIAM J. JOHNSTON MIDDLE SCHOOL	WILLIAM J. JOHNSTON MIDDLE SCHOOL	508	COLCHESTER PUBLIC SCHOOLS 1	< 0.3	-
ä	2020-01-07	2:00 pm	2020-01-10	11:00 am	70	WILLIAM J. JOHNSTON MIDDLE SCHOOL	WILLIAM J. JOHNSTON MIDDLE SCHOOL	516	COLCHESTER PUBLIC SCHOOLS 1	0.5	
យ	2020-01-07	2:00 pm	2020-01-10	11:00 am	70	WILLIAM J. JOHNSTON MIDDLE SCHOOL	WILLIAM J. JOHNSTON MIDDLE SCHOOL	509	COLCHESTER PUBLIC SCHOOLS 1	< 0.3	
4	2020-01-07	2:00 pm	2020-01-10	11:00 am	70	WILLIAM J. JOHNSTON MIDDLE SCHOOL	WILLIAM J. JOHNSTON MIDDLE SCHOOL	MO	COLCHESTER PUBLIC SCHOOLS 1	< 0.3	
33	2020-01-07	2:00 pm	2020-01-10	11:00 am	70	WILLIAM J. JOHNSTON MIDDLE SCHOOL	WILLIAM J. JOHNSTON MIDDLE SCHOOL	602	COLCHESTER PUBLIC SCHOOLS 1	< 0.3	
8	2020-01-07	2:00 pm	2020-01-10	11:00 am	70	WILLIAM J. JOHNSTON MIDDLE SCHOOL	WILLIAM J. JOHNSTON MIDDLE SCHOOL	605	COLCHESTER PUBLIC SCHOOLS 1	< 0.3	-
77	2020-01-07	2:00 pm	2020-01-10	11:00 am	70	WILLIAM J. JOHNSTON MIDDLE SCHOOL	WILLIAM J. JOHNSTON MIDDLE SCHOOL	MO	COLCHESTER PUBLIC SCHOOLS 1	< 0.3	-
88	2020-01-07	2:00 pm	2020-01-10	11:00 am	70	WILLIAM J. JOHNSTON MIDDLE SCHOOL	WILLIAM J. JOHNSTON MIDDLE SCHOOL	MO	COLCHESTER PUBLIC SCHOOLS 1	< 0.3	
99	2020-01-07	2:00 pm	2020-01-10	11:00 am	70	WILLIAM J. JOHNSTON MIDDLE SCHOOL	WILLIAM J. JOHNSTON MIDDLE SCHOOL	507	COLCHESTER PUBLIC SCHOOLS 1	< 0.3	
ŏ	2020-01-07	2:00 pm	2020-01-10	11:00 am	70	WILLIAM J. JOHNSTON MIDDLE SCHOOL	WILLIAM J. JOHNSTON MIDDLE SCHOOL	KITCHEN	COLCHESTER PUBLIC SCHOOLS 1	< 0.3	<i></i>
Ic	2020-01-07	2:00 pm	2020-01-10	11:00 am	70	WILLIAM J. JOHNSTON MIDDLE SCHOOL	WILLIAM J. JOHNSTON MIDDLE SCHOOL	612D	COLCHESTER PUBLIC SCHOOLS 1	×0.3	
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11:00 am	12:00 pm	11:00 am	11:00 am	11:00 am	11:00 am	12:00 pm	11:00 am	12:00 pm	11:00 am	End Time																							
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WILLIAM J. JOHNSTON MIDDLE SCHOOL	. Facility																																
WILLIAM J. JOHNSTON MIDDLE SCHOOL	Building																																
114	112	113	116E	109	609	115	106	104D	104A	102	101	102A	102	403	103	408	110	105	614	606	FACULTY	CAFé	613	306D	302	704	PUPIL SERVICES	108	116	BLANK	BLANK	511	Room
COLCHESTER PUBLIC SCHOOLS	Project ID																																
-	_	-	-	-	_	-	-	-	_	-	-	1	-	1	-	1	1	-	-	-	-	_	-	,	-	-	-	_	-	_	-	1	Floor
< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	0.5	< 0.3	< 0.3	< 0.3	< 0.3	<0.3 [<0.3	<0.3	^0.3	8 11	ۇ. ا	6 []	ۇ ئۇ	် <u>း</u> P.	6.3 •G	<0.3 F	ວ Ξ	O ရွ	م آون آون	^0.3 ↓	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	Result



STATE OF CONNECTICUT

DEPARTMENT OF PUBLIC HEALTH RADON PROGRAM INITIAL SCHOOL RADON MEASUREMENT REPORT FORM

*Please use the Re-Evaluation Report Form when performing 5-year re-evaluations.

May 2017

The following form must be submitted to the Connecticut Department of Public Health Radon Program within ten (10) business days of providing a final written report of radon measurement activities to school personnel. **Do not send test results or other documents.** Submit this signed form by **mail, fax OR email (preferred)** to the Radon Program at:

CT Department of Public Health Radon Program

410 Capitol Avenue, MS #12 RAD

Hartford, CT 06134-0308 Fax: 860-509-7295

	Email: <u>DPH.RadonReports@ct.gov</u>
Name of School:	William Johnston Middle School (New Section
Address: (Street, town, zip code)	360 Norwich Avenue
	Colchester, CT 06415
Testing Company:	Mystic Air Quality Consultants, Inc.
Measurement Professional: NRPP/NRSB Certification #:	Scott Adams/ 6SS0018
Please provide the following summar Dates of Testing: (deployment & retrieval dates. Include confirmatory testing dates if necessary)	January 7-10, 2020
Total # of Rooms Tested	42
Total # of Rooms Requiring Re-Testing:	0
Total # of Rooms Where Average Results Were at or above 4.0 pCi/L:	0
	rried out in accordance with United States Environmental Protection Department of Public Health Radon Program's School Radon Testing ove.
Signature of Measurement Profess	ional Signature of School Designee Date



Phone: (860) 509-7299
Telephone Device for the Deaf (860)
509-7191 450 Capitol Avenue - MS # 12RAD
P.O. Box 340308 Hartford, CT 06134
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ENCLOSURE PAGE OF 7



STATE OF CONNECTICUT

DEPARTMENT OF PUBLIC HEALTH RADON PROGRAM

SCHOOL RADON RE-EVALUATION REPORT FORM

Jan 2011

The following form must be submitted to the Connecticut Department of Public Health Radon Program within ten (10) business days of providing a final written report of radon measurement activities to school personnel. Submit this signed form by mail OR fax to the Radon Program at the address listed below:

> CT Department of Public Health Radon Program 410 Capitol Avenue, MS #51 RAD Hartford, CT 06134-0308 OR

Fax: 860-509-7378

Name of School:	William Johnston Middle School (Existing)									
Address:	360 No									
(Street, town, zip code)	Colche	ester, CT 06415								
Measurement Company:	Mystic	Air Quality Consultan	nts							
Please provide the following summ	ary informatio	on:								
Testing Dates:	Januar	y 7-10, 2020								
Total # of Rooms Tested:	8									
Total # of Rooms Requiring Re-Testing:	0									
Total # of Rooms Where Average Results were at or above 4.0 pCi/L:	0									
Radon measurement activities were present Environmental Protection Agency pro Program's School Radon Testing Guid	tocols and the									
Scott Adams/ 6SS001	8		2 /10/2020							
Measurement Professional / NEHA/N	RSB#	Signature	Date							
School Designee / Title		Signature	Date							
	60) 509-7367 Device for the	Deaf (860) 509-7191								



450 Capitol Avenue - MS # 51RAD

P.O. Box 340308 Hartford, CT 06134 An Equal Opportunity Employer



STATE OF CONNECTICUT

DEPARTMENT OF PUBLIC HEALTH RADON PROGRAM SCHOOL RADON **RE-EVALUATION** REPORT FORM

Jan 2011

The following form must be submitted to the Connecticut Department of Public Health Radon Program within ten (10) business days of providing a final written report of radon measurement activities to school personnel. Submit this signed form by mail OR fax to the Radon Program at the address listed below:

CT Department of Public Health Radon Program 410 Capitol Avenue, MS #51 RAD Hartford, CT 06134-0308 OR

Fax: 860-509-7378

Name of School:	Colches	Colchester Elementary School									
Address:	318 Hal	318 Halls Hill Road									
(Street, town, zip code)	Colches	Colchester, CT 06415									
Measurement Company:	Mystic A	Air Quality Consulta	ants								
Please provide the following summ	mary information	<i>ı</i> :									
Testing Dates:	January	6-9, 2020									
Total # of Rooms Tested:	9	<u> </u>									
Total # of Rooms Requiring Re-Testing:	0	<u> </u>									
Total # of Rooms Where Average Results were at or above 4.0 pCi/L:	0										
Radon measurement activities were p Environmental Protection Agency pr Program's School Radon Testing Gu	otocols and the Co										
Scott Adams/ 6SS00	18		2/10/2020								
Measurement Professional / NEHA/N	NRSB#	Signature	Date								
School Designee / Title		Signature	Date								
	860) 509-7367	Deaf (860) 500 7101									



Phone: (860) 509-7367
Telephone Device for the Deaf (860) 509-7191
450 Capitol Avenue - MS # 51RAD
P.O. Box 340308 Hartford, CT 06134
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THE NATIONAL RADON SAFETY BOARD

Certified Radon Professionals

Certifies that

Scott M. Adams

Has Successfully Met The Established & Published Requirements for Certification by The National Radon Safety Board as a

Kadon Measurement Specialist

NRSB 6SS0018

Certification Number

3/30/2020

Expiration Date

Wille Fundel



This certificate is the property of The National Radon Safety Board and is not official without the raised seal.

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