

March 15, 2024

Kildeer Countryside School District # 96
1072 Ivy Hall Lane
Buffalo Grove, IL 60089



Attn: Mr. Sam Miranda
Director of Facilities and Transportation

Re: Indoor Radon Screening Report
Willow Grove School
777 Checker Road
Buffalo Grove, IL

JMS Project: J-25659

Dear Mr. Miranda:

The following report covers the results of the Radon Screening that JMS Environmental Associates, Ltd. (JMS) performed at the Willow Grove School, 777 Checker Road located in Buffalo Grove, Illinois from August 9, 2023 to December 27, 2023.

Radon Facts:

Radon is a naturally occurring radioactive gas. It comes from the natural decay of uranium which is found in the soil and rock all over the United States. Radon travels through soil and enters buildings through cracks and other holes in the foundation. Eventually, it decays into radioactive particles. EPA studies have found that radon concentrations in outdoor air average about 0.4 pCi/L. However, radon and its decay products can accumulate to much higher concentrations inside a building.

Radon is a colorless, odorless, and tasteless. The only way to know whether an elevated level of radon is present in any room of a school is to test. Each frequently occupied room that is in contact with the ground should be measured separately from adjacent rooms.

Sampling:

EPA protocol recommends sampling all frequently used rooms on and below the ground level. Sampling should be performed when windows and doors are more likely to be closed and heating is in operation. This is considered to be the “Closed Conditions” and “worst case” conditions for estimating the highest radon level to which someone may be exposed.

Alpha-track detectors were utilized for this long-term sampling period. This type of detector gives a better estimate of the average radon concentration.

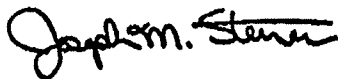
Forty-three (43) locations were sampled ranging from $0.6 \pm 9\%$ to $1.2 \pm 7\%$. EPA action level is 4pCi/L (picoCuries per liter). This is the level at which EPA Recommends that schools take action to reduce the level.

Conclusion:

Of the 43 samples taken, all were below the EPA action level is 4pCi/L (picoCuries per liter). No action needs to be taken at this time. However, EPA does recommend resampling in the future. Re-sampling should be performed when any major renovation take place, such as ones that effect the foundation, HVAC systems and additions to the structure.

If you have any questions regarding this project survey report, please do not hesitate to contact us at JMS.

Respectfully submitted,
JMS ENVIRONMENTAL ASSOCIATES, LTD.



Joseph M. Sterner, MS
Environmental Director/President

APPENDIX 'A'

Laboratory Report



6312 West Oakton Street
 Morton Grove, IL 60053-2723
 847-965-1999
 Fax 847-965-1991



January 05, 2024

JMS Environmental Associates, Ltd.
 Joyce Ciesla
 816 Burr Oak Drive
 Westmont, IL 60559
 USA

Alpha Track Radon Test Results

Detector Number	pCi/L	Test Location	Test Address	Start Date	End Date	Note*
829436	0.9 ± 8%	Room 104	777 Checker Drive Buffalo Grove, IL 60089	8/9/2023	12/27/2023	
829437	0.8 ± 8%	Room 102	777 Checker Drive Buffalo Grove, IL 60089	8/9/2023	12/27/2023	
829438	0.9 ± 8%	Room 101	777 Checker Drive Buffalo Grove, IL 60089	8/9/2023	12/27/2023	
829439	0.7 ± 9%	Room 103	777 Checker Drive Buffalo Grove, IL 60089	8/9/2023	12/27/2023	
829440	0.7 ± 9%	Room 105	777 Checker Drive Buffalo Grove, IL 60089	8/9/2023	12/27/2023	
829451	0.6 ± 9%	LRC 14 #1	777 Checker Drive Buffalo Grove, IL 60089	8/9/2023	12/27/2023	
829452	1.2 ± 7%	LRC 14 #2	777 Checker Drive Buffalo Grove, IL 60089	8/9/2023	12/27/2023	

Analysis was performed at RSSI's laboratory in Morton Grove, Illinois, which is accredited to the ISO/IEC 17025:2017 standard by PJLA under accreditation number 101315. This analysis was performed under the scope of testing certificate L21-761. Analytical results showing the radon concentration relate only to the device(s) tested in the condition as received by RSSI. Results were calculated based on information provided by the client.

Customer Number:
4160

Detector Number	pCi/L	Test Location	Test Address	Start Date	End Date	Note*
829453	0.7 ± 9%	Room 3	777 Checker Drive Buffalo Grove, IL 60089	8/9/2023	12/27/2023	
829454	0.9 ± 8%	Room 2	777 Checker Drive Buffalo Grove, IL 60089	8/9/2023	12/27/2023	
829455	1.1 ± 7%	Room 1	777 Checker Drive Buffalo Grove, IL 60089	8/9/2023	12/27/2023	
829466	0.9 ± 8%	Room 4	777 Checker Drive Buffalo Grove, IL 60089	8/9/2023	12/27/2023	
829467	1.2 ± 7%	Room 7	777 Checker Drive Buffalo Grove, IL 60089	8/9/2023	12/27/2023	
829468	0.8 ± 8%	Room 5	777 Checker Drive Buffalo Grove, IL 60089	8/9/2023	12/27/2023	
829469	1.2 ± 7%	Room 8	777 Checker Drive Buffalo Grove, IL 60089	8/9/2023	12/27/2023	
829470	0.9 ± 8%	Room 9	777 Checker Drive Buffalo Grove, IL 60089	8/9/2023	12/27/2023	
829481	1.1 ± 7%	Room 18	777 Checker Drive Buffalo Grove, IL 60089	8/9/2023	12/27/2023	
829482	0.8 ± 8%	Room 21	777 Checker Drive Buffalo Grove, IL 60089	8/9/2023	12/27/2023	
829483	0.7 ± 9%	Room 19	777 Checker Drive Buffalo Grove, IL 60089	8/9/2023	12/27/2023	
829484	0.9 ± 8%	Room 17	777 Checker Drive Buffalo Grove, IL 60089	8/9/2023	12/27/2023	

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Detector Number	pCi/L	Test Location	Test Address	Start Date	End Date	Note*
829485	0.7 ± 9%	Room 20	777 Checker Drive Buffalo Grove, IL 60089	8/9/2023	12/27/2023	
829486	1.0 ± 8%	Room 100	777 Checker Drive Buffalo Grove, IL 60089	8/9/2023	12/27/2023	
829487	0.7 ± 9%	Room 15	777 Checker Drive Buffalo Grove, IL 60089	8/9/2023	12/27/2023	
829488	1.1 ± 7%	Room 107	777 Checker Drive Buffalo Grove, IL 60089	8/9/2023	12/27/2023	
829489	1.0 ± 8%	Room 16	777 Checker Drive Buffalo Grove, IL 60089	8/9/2023	12/27/2023	
829490	1.3 ± 7%	Room 106	777 Checker Drive Buffalo Grove, IL 60089	8/9/2023	12/27/2023	
829492	1.0 ± 8%	Office 68	777 Checker Drive Buffalo Grove, IL 60089	8/9/2023	12/27/2023	
829493	1.1 ± 7%	Art Room 56	777 Checker Drive Buffalo Grove, IL 60089	8/9/2023	12/27/2023	
829494	0.8 ± 8%	Office 57	777 Checker Drive Buffalo Grove, IL 60089	8/9/2023	12/27/2023	
829495	0.8 ± 9%	Office 69	777 Checker Drive Buffalo Grove, IL 60089	8/9/2023	12/27/2023	
829502	0.9 ± 8%	Room 41	777 Checker Drive Buffalo Grove, IL 60089	8/9/2023	12/27/2023	
829503	0.9 ± 8%	Room 42	777 Checker Drive Buffalo Grove, IL 60089	8/9/2023	12/27/2023	

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Detector Number	pCi/L	Test Location	Test Address	Start Date	End Date	Note*
829504	0.7 ± 9%	Room 39	777 Checker Drive Buffalo Grove, IL 60089	8/9/2023	12/27/2023	
829505	1.0 ± 8%	Room 40	777 Checker Drive Buffalo Grove, IL 60089	8/9/2023	12/27/2023	
829506	1.0 ± 8%	Band Room 60	777 Checker Drive Buffalo Grove, IL 60089	8/9/2023	12/27/2023	
829507	0.8 ± 8%	Kitchen 80	777 Checker Drive Buffalo Grove, IL 60089	8/9/2023	12/27/2023	
829508	0.7 ± 9%	Cafeteria 76	777 Checker Drive Buffalo Grove, IL 60089	8/9/2023	12/27/2023	
829511	0.7 ± 9%	Mechanical 164	777 Checker Drive Buffalo Grove, IL 60089	8/9/2023	12/27/2023	
829512	0.6 ± 9%	Room 13	777 Checker Drive Buffalo Grove, IL 60089	8/9/2023	12/27/2023	
829513	0.9 ± 8%	Room 10	777 Checker Drive Buffalo Grove, IL 60089	8/9/2023	12/27/2023	
829514	0.8 ± 8%	Room 11	777 Checker Drive Buffalo Grove, IL 60089	8/9/2023	12/27/2023	
829606	1.1 ± 7%	Office 63	777 Checker Drive Buffalo Grove, IL 60089	8/9/2023	12/27/2023	
829607	0.8 ± 9%	Gym #1	777 Checker Drive Buffalo Grove, IL 60089	8/9/2023	12/27/2023	
829609	0.7 ± 9%	Gym # 2	777 Checker Drive Buffalo Grove, IL 60089	8/9/2023	12/27/2023	


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Detector Number	pCi/L	Test Location	Test Address	Start Date	End Date	Note*
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Analyzed By:		01/04/ 2024
	Zoe Darlington Radon Analyst	Analysis Date

END REPORT

* 1-Broken Seal, 2-Damaged Filter, 3-Loose Test Material, 4-Missing Test Material, 5-Missing End Date, 6-Missing Start Date, 7-Less Than 8 Days, 8-Past Expiration Date, 9-Missing Both Dates, NA-No applicable notes

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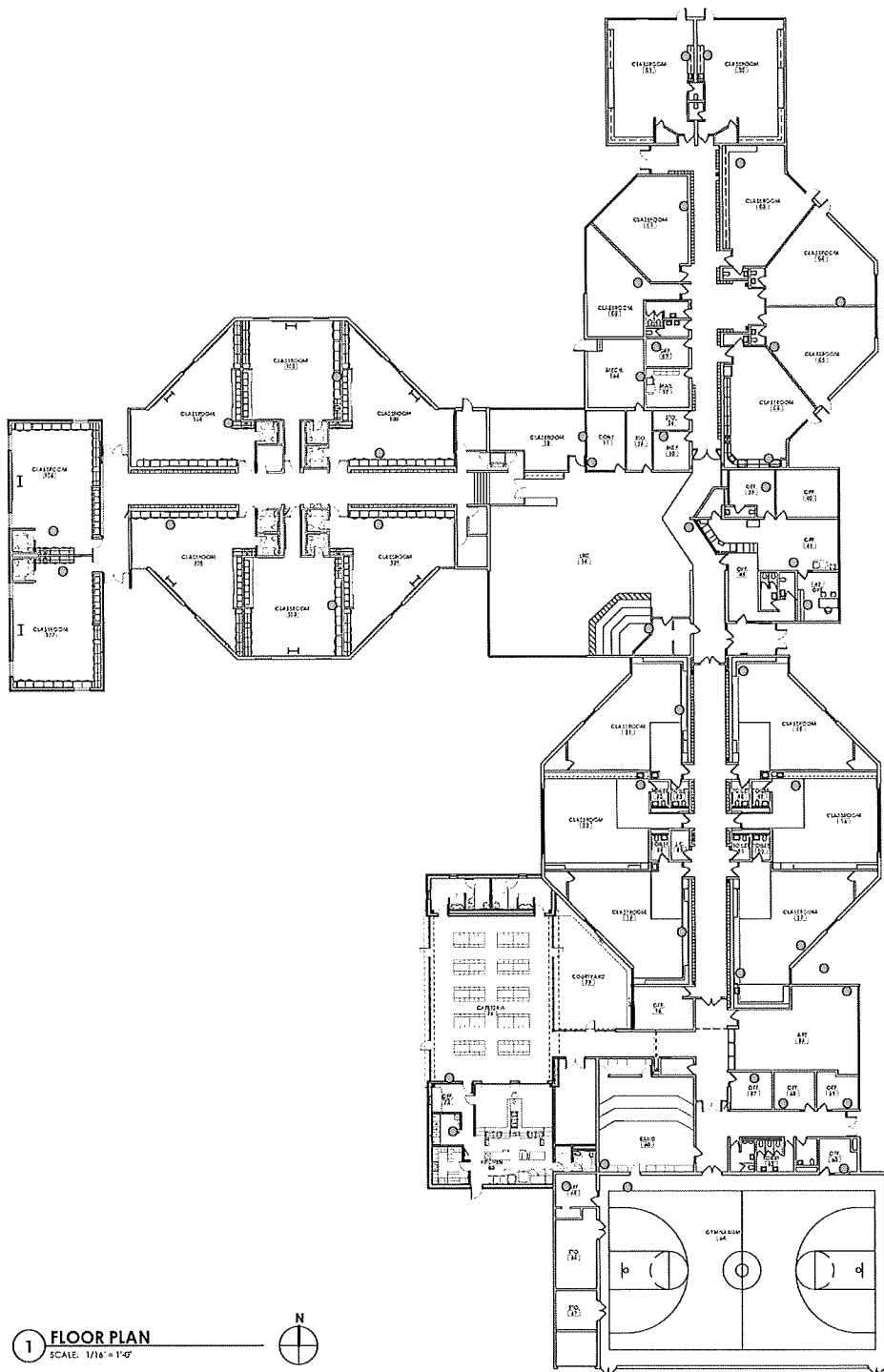
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STR

ARCHITECTS

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Hatchler Plummer Architects
C32 Design Group, Inc.
237 Oakton Street
Evanston, IL 60007
847.931.1800

**SCOPE DOCUMENT**

This document is a general statement of work and is not to be construed as a contract. It is the responsibility of the client to ensure that all necessary permits, conditions, and approvals are obtained from the appropriate authorities. The drawings are for informational purposes only and do not constitute a contract. The client is responsible for obtaining all necessary permits, conditions, and approvals from the appropriate authorities. The drawings are for informational purposes only and do not constitute a contract. The client is responsible for obtaining all necessary permits, conditions, and approvals from the appropriate authorities.

PROJECT ADDRESS

PROJECT
2019 FACILITY
IMPROVEMENTS AND LIFE
SAFETY WORK
AT WILLOW GROVE EARLY LEARNING
CENTER
777 Checker Drive
Buffalo Grove, IL 60089

D96 Kildeer Countryside
School District
1050 Ivy Hill Lane
Buffalo Grove, IL 60089

CLIENT PROJECT NUMBER

SEE PROJECT NUMBER
18038

DRAWING DATE

NUMBER DATE COMMENTS

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1 FLOOR PLAN
SCALE: 1/16" = 1'-0"



WILLOW GROVE EARLY LEARNING
SHEET NUMBER
WG-A1