

March 15, 2024

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



816 Burr Oak Drive Westmont, Illinois 60559
Phone: (630) 655-8500 Fax: (630) 655-8724
jmsenviro.com

Attn: Mr. Sam Miranda
Director of Facilities and Transportation

Re: Indoor Radon Screening Report
Prairie School
1530 Brandywyn Lane
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 Prairie School, 1530 Brandywyn Lane located in Buffalo Grove, Illinois from August 9, 2023 to December 28, 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.

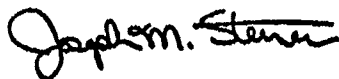
Thirty-eight(38) locations were sampled ranging from $0.5\pm 10\%$ to $1.7\pm 6\%$. EPA action level is 4pCi/L (picoCuries per liter). This is the level at which EPA Recommends that schools take action to reduce the level.

Conclusion:

Of the 38 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*
829408	0.7 ± 9%	Mechanical 89	1530 Brandywyn Ln. Buffalo Grove, IL 60089	8/9/2023	12/28/2023	
829409	0.7 ± 9%	Gym 1	1530 Brandywyn Ln. Buffalo Grove, IL 60089	8/9/2023	12/28/2023	
829410	0.6 ± 9%	Gym 2	1530 Brandywyn Ln. Buffalo Grove, IL 60089	8/9/2023	12/28/2023	
829431	0.7 ± 9%	Storage 63	1530 Brandywyn Ln. Buffalo Grove, IL 60089	8/9/2023	12/28/2023	
829432	0.9 ± 8%	Classroom 20	1530 Brandywyn Ln. Buffalo Grove, IL 60089	8/9/2023	12/28/2023	
829433	1.0 ± 8%	Classroom 21	1530 Brandywyn Ln. Buffalo Grove, IL 60089	8/9/2023	12/28/2023	
829434	0.7 ± 9%	Classroom 22	1530 Brandywyn Ln. Buffalo Grove, IL 60089	8/9/2023	12/28/2023	

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

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Detector Number	pCi/L	Test Location	Test Address	Start Date	End Date	Note*
829435	0.9 ± 8%	Classroom 19	1530 Brandywyn Ln. Buffalo Grove, IL 60089	8/9/2023	12/28/2023	
829441	0.8 ± 8%	Storage 71	1530 Brandywyn Ln. Buffalo Grove, IL 60089	8/9/2023	12/28/2023	
829442	0.6 ± 9%	Band Room 65	1530 Brandywyn Ln. Buffalo Grove, IL 60089	8/9/2023	12/28/2023	
829443	1.0 ± 8%	Storage 62	1530 Brandywyn Ln. Buffalo Grove, IL 60089	8/9/2023	12/28/2023	
829444	0.7 ± 9%	Storage 61	1530 Brandywyn Ln. Buffalo Grove, IL 60089	8/9/2023	12/28/2023	
829445	0.6 ± 10%	MP 67 #2	1530 Brandywyn Ln. Buffalo Grove, IL 60089	8/9/2023	12/28/2023	
829446	0.8 ± 8%	Office 78	1530 Brandywyn Ln. Buffalo Grove, IL 60089	8/9/2023	12/28/2023	
829447	0.8 ± 8%	Office 79	1530 Brandywyn Ln. Buffalo Grove, IL 60089	8/9/2023	12/28/2023	
829448	0.8 ± 8%	Work Room 75	1530 Brandywyn Ln. Buffalo Grove, IL 60089	8/9/2023	12/28/2023	
829449	0.6 ± 9%	Lounge 74	1530 Brandywyn Ln. Buffalo Grove, IL 60089	8/9/2023	12/28/2023	
829450	0.6 ± 9%	MP 67 #1	1530 Brandywyn Ln. Buffalo Grove, IL 60089	8/9/2023	12/28/2023	
829456	0.7 ± 9%	Office 86	1530 Brandywyn Ln. Buffalo Grove, IL 60089	8/9/2023	12/28/2023	

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Detector Number	pCi/L	Test Location	Test Address	Start Date	End Date	Note*
829457	0.9 ± 8%	Office 84	1530 Brandywyn Ln. Buffalo Grove, IL 60089	8/9/2023	12/28/2023	
829458	0.9 ± 8%	Mechanical 89 Side Room	1530 Brandywyn Ln. Buffalo Grove, IL 60089	8/9/2023	12/28/2023	
829459	0.7 ± 9%	Office 80	1530 Brandywyn Ln. Buffalo Grove, IL 60089	8/9/2023	12/28/2023	
829460	0.9 ± 8%	Office 81	1530 Brandywyn Ln. Buffalo Grove, IL 60089	8/9/2023	12/28/2023	
829461	1.1 ± 7%	Mechanical Room 60	1530 Brandywyn Ln. Buffalo Grove, IL 60089	8/9/2023	12/28/2023	
829462	1.0 ± 8%	Classroom 23	1530 Brandywyn Ln. Buffalo Grove, IL 60089	8/9/2023	12/28/2023	
829464	1.1 ± 7%	Room 11	1530 Brandywyn Ln. Buffalo Grove, IL 60089	8/9/2023	12/28/2023	
829465	0.7 ± 9%	Room 10	1530 Brandywyn Ln. Buffalo Grove, IL 60089	8/9/2023	12/28/2023	
829471	1.2 ± 7%	Music Room 102	1530 Brandywyn Ln. Buffalo Grove, IL 60089	8/9/2023	12/28/2023	
829472	0.5 ± 10%	Room 13	1530 Brandywyn Ln. Buffalo Grove, IL 60089	8/9/2023	12/28/2023	
829473	0.6 ± 9%	Room 44	1530 Brandywyn Ln. Buffalo Grove, IL 60089	8/9/2023	12/28/2023	
829474	0.7 ± 9%	Room 7	1530 Brandywyn Ln. Buffalo Grove, IL 60089	8/9/2023	12/28/2023	

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Detector Number	pCi/L	Test Location	Test Address	Start Date	End Date	Note*
829475	1.0 ± 8%	Art Room 52	1530 Brandywyn Ln. Buffalo Grove, IL 60089	8/9/2023	12/28/2023	
829476	1.3 ± 7%	Room 8	1530 Brandywyn Ln. Buffalo Grove, IL 60089	8/9/2023	12/28/2023	
829477	1.3 ± 7%	Room 6	1530 Brandywyn Ln. Buffalo Grove, IL 60089	8/9/2023	12/28/2023	
829478	1.0 ± 8%	Room 12	1530 Brandywyn Ln. Buffalo Grove, IL 60089	8/9/2023	12/28/2023	
829479	1.7 ± 6%	Room 5	1530 Brandywyn Ln. Buffalo Grove, IL 60089	8/9/2023	12/28/2023	
829480	0.8 ± 8%	LRC Room 43	1530 Brandywyn Ln. Buffalo Grove, IL 60089	8/9/2023	12/28/2023	
829501	0.7 ± 9%	Room 4	1530 Brandywyn Ln. Buffalo Grove, IL 60089	8/9/2023	12/28/2023	

Analyzed By: 

Zoe Darlington
Radon Analyst

01/04/2024

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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