

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
Ivy Hall School
1072 Ivy Hall 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 Ivy Hall School, 1072 Ivy Hall 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.

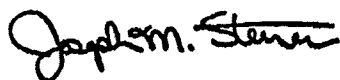
Forty-nine (49) locations were sampled ranging from $0.5 \pm 10\%$ to $2.3 \pm 5\%$. EPA action level is 4pCi/L (picoCuries per liter). This is the level at which EPA Recommends that schools take action to reduce the level.

Conclusion:

Of the 49 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.



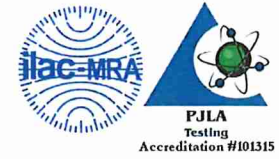
Joseph M. Sterner, MS
Environmental Director/President

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*
829518	0.9 ± 8%	Room 201	1072 Ivy Hall Lane Buffalo Grove, IL 60089	8/9/2023	12/28/2023	
829521	0.8 ± 9%	LRC 313 #2	1072 Ivy Hall Lane Buffalo Grove, IL 60089	8/9/2023	12/28/2023	
829522	1.1 ± 7%	Room 123	1072 Ivy Hall Lane Buffalo Grove, IL 60089	8/9/2023	12/28/2023	
829523	0.9 ± 8%	Conference 165	1072 Ivy Hall Lane Buffalo Grove, IL 60089	8/9/2023	12/28/2023	
829524	0.5 ± 10%	LRC 313 #1	1072 Ivy Hall Lane Buffalo Grove, IL 60089	8/9/2023	12/28/2023	
829525	0.6 ± 9%	Room 302	1072 Ivy Hall Lane Buffalo Grove, IL 60089	8/9/2023	12/28/2023	
829526	1.1 ± 7%	Room 125	1072 Ivy Hall Lane 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.

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4160

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Detector Number	pCi/L	Test Location	Test Address	Start Date	End Date	Note*
829527	1.5 ± 7%	Room 120	1072 Ivy Hall Lane Buffalo Grove, IL 60089	8/9/2023	12/28/2023	
829528	1.2 ± 7%	Room 121	1072 Ivy Hall Lane Buffalo Grove, IL 60089	8/9/2023	12/28/2023	
829529	1.2 ± 7%	Room 118	1072 Ivy Hall Lane Buffalo Grove, IL 60089	8/9/2023	12/28/2023	
829530	0.8 ± 8%	Room 303	1072 Ivy Hall Lane Buffalo Grove, IL 60089	8/9/2023	12/28/2023	
829532	1.1 ± 7%	Cafeteria 205	1072 Ivy Hall Lane Buffalo Grove, IL 60089	8/9/2023	12/28/2023	
829533	1.2 ± 7%	Room 213	1072 Ivy Hall Lane Buffalo Grove, IL 60089	8/9/2023	12/28/2023	
829534	0.9 ± 8%	Room 215	1072 Ivy Hall Lane Buffalo Grove, IL 60089	8/9/2023	12/28/2023	
829535	0.8 ± 8%	Room 212	1072 Ivy Hall Lane Buffalo Grove, IL 60089	8/9/2023	12/28/2023	
829541	1.5 ± 6%	Office 165	1072 Ivy Hall Lane Buffalo Grove, IL 60089	8/9/2023	12/28/2023	
829542	0.8 ± 8%	Work Room 164	1072 Ivy Hall Lane Buffalo Grove, IL 60089	8/9/2023	12/28/2023	
829543	1.3 ± 7%	Office 159	1072 Ivy Hall Lane Buffalo Grove, IL 60089	8/9/2023	12/28/2023	
829544	1.0 ± 8%	Room 110	1072 Ivy Hall Lane Buffalo Grove, IL 60089	8/9/2023	12/28/2023	

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Customer Number:
4160

Page 2 of 7

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Detector Number	pCi/L	Test Location	Test Address	Start Date	End Date	Note*
829545	0.8 ± 9%	Room 101	1072 Ivy Hall Lane Buffalo Grove, IL 60089	8/9/2023	12/28/2023	
829546	1.5 ± 6%	Office 161	1072 Ivy Hall Lane Buffalo Grove, IL 60089	8/9/2023	12/28/2023	
829547	1.1 ± 7%	Room 304	1072 Ivy Hall Lane Buffalo Grove, IL 60089	8/9/2023	12/28/2023	
829548	1.2 ± 7%	Office 160	1072 Ivy Hall Lane Buffalo Grove, IL 60089	8/9/2023	12/28/2023	
829549	0.9 ± 8%	Room 301	1072 Ivy Hall Lane Buffalo Grove, IL 60089	8/9/2023	12/28/2023	
829550	0.8 ± 8%	Room 111	1072 Ivy Hall Lane Buffalo Grove, IL 60089	8/9/2023	12/28/2023	
829551	1.2 ± 7%	Office 157	1072 Ivy Hall Lane Buffalo Grove, IL 60089	8/9/2023	12/28/2023	
829552	0.9 ± 8%	Office 156	1072 Ivy Hall Lane Buffalo Grove, IL 60089	8/9/2023	12/28/2023	
829553	0.8 ± 8%	Room 112	1072 Ivy Hall Lane Buffalo Grove, IL 60089	8/9/2023	12/28/2023	
829554	1.0 ± 8%	Room 122	1072 Ivy Hall Lane Buffalo Grove, IL 60089	8/9/2023	12/28/2023	
829555	0.9 ± 8%	Room 113	1072 Ivy Hall Lane Buffalo Grove, IL 60089	8/9/2023	12/28/2023	
829556	1.5 ± 6%	Office 158	1072 Ivy Hall Lane Buffalo Grove, IL 60089	8/9/2023	12/28/2023	

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Customer Number:
4160

Page 3 of 7

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Detector Number	pCi/L	Test Location	Test Address	Start Date	End Date	Note*
829557	0.9 ± 8%	Conference Room 102	1072 Ivy Hall Lane Buffalo Grove, IL 60089	8/9/2023	12/28/2023	
829558	1.0 ± 8%	Office 162	1072 Ivy Hall Lane Buffalo Grove, IL 60089	8/9/2023	12/28/2023	
829559	1.6 ± 6%	Room 119	1072 Ivy Hall Lane Buffalo Grove, IL 60089	8/9/2023	12/28/2023	
829561	0.7 ± 9%	Room 311	1072 Ivy Hall Lane Buffalo Grove, IL 60089	8/9/2023	12/28/2023	
829562	0.8 ± 8%	Room 202	1072 Ivy Hall Lane Buffalo Grove, IL 60089	8/9/2023	12/28/2023	
829563	0.9 ± 8%	Storage 39	1072 Ivy Hall Lane Buffalo Grove, IL 60089	8/9/2023	12/28/2023	
829564	0.8 ± 8%	Room 207	1072 Ivy Hall Lane Buffalo Grove, IL 60089	8/9/2023	12/28/2023	
829565	0.9 ± 8%	Room 310	1072 Ivy Hall Lane Buffalo Grove, IL 60089	8/9/2023	12/28/2023	
829566	0.8 ± 8%	Room 307	1072 Ivy Hall Lane Buffalo Grove, IL 60089	8/9/2023	12/28/2023	
829567	0.9 ± 8%	Room 308	1072 Ivy Hall Lane Buffalo Grove, IL 60089	8/9/2023	12/28/2023	
829568	0.7 ± 9%	Room 208	1072 Ivy Hall Lane Buffalo Grove, IL 60089	8/9/2023	12/28/2023	1,
829569	0.6 ± 9%	Room 306	1072 Ivy Hall Lane Buffalo Grove, IL 60089	8/9/2023	12/28/2023	

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4160

Detector Number	pCi/L	Test Location	Test Address	Start Date	End Date	Note*
829570	2.3 ± 5%	Room 210	1072 Ivy Hall Lane Buffalo Grove, IL 60089	8/9/2023	12/28/2023	
829571	0.7 ± 9%	Room 204	1072 Ivy Hall Lane Buffalo Grove, IL 60089	8/9/2023	12/28/2023	
829572	0.8 ± 8%	Room Off 466	1072 Ivy Hall Lane Buffalo Grove, IL 60089	8/9/2023	12/28/2023	
829573	1.2 ± 7%	Room 211	1072 Ivy Hall Lane Buffalo Grove, IL 60089	8/9/2023	12/28/2023	
829574	0.8 ± 8%	Room 209	1072 Ivy Hall Lane Buffalo Grove, IL 60089	8/9/2023	12/28/2023	
829575	0.9 ± 8%	Room 203	1072 Ivy Hall Lane Buffalo Grove, IL 60089	8/9/2023	12/28/2023	
829577	1.7 ± 6%	Room 05	1072 Ivy Hall Lane Buffalo Grove, IL 60089	8/9/2023	12/28/2023	
829578	1.0 ± 7%	Room 06	1072 Ivy Hall Lane Buffalo Grove, IL 60089	8/9/2023	12/28/2023	
829579	1.0 ± 8%	Room 01	1072 Ivy Hall Lane Buffalo Grove, IL 60089	8/9/2023	12/28/2023	
829580	0.8 ± 8%	Room 02	1072 Ivy Hall Lane Buffalo Grove, IL 60089	8/9/2023	12/28/2023	
829581	1.0 ± 8%	Office 12	1072 Ivy Hall Lane Buffalo Grove, IL 60089	8/9/2023	12/28/2023	
829582	1.3 ± 7%	Room 07	1072 Ivy Hall Lane 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*
829585	0.8 ± 8%	Stage	1072 Ivy Hall Lane Buffalo Grove, IL 60089	8/9/2023	12/28/2023	
829591	1.0 ± 8%	Room 214	1072 Ivy Hall Lane Buffalo Grove, IL 60089	8/9/2023	12/28/2023	
829592	0.7 ± 9%	Gym 31 #2	1072 Ivy Hall Lane Buffalo Grove, IL 60089	8/9/2023	12/28/2023	
829593	1.2 ± 7%	Kitchen 23	1072 Ivy Hall Lane Buffalo Grove, IL 60089	8/9/2023	12/28/2023	
829594	0.8 ± 8%	MP 24 #1	1072 Ivy Hall Lane Buffalo Grove, IL 60089	8/9/2023	12/28/2023	
829595	0.8 ± 8%	MP 24 #2	1072 Ivy Hall Lane Buffalo Grove, IL 60089	8/9/2023	12/28/2023	
829616	1.3 ± 7%	Band Room 17	1072 Ivy Hall Lane Buffalo Grove, IL 60089	8/9/2023	12/28/2023	
829617	1.9 ± 6%	Orchestra 18	1072 Ivy Hall Lane Buffalo Grove, IL 60089	8/9/2023	12/28/2023	
829618	0.8 ± 8%	Art Room 10	1072 Ivy Hall Lane Buffalo Grove, IL 60089	8/9/2023	12/28/2023	
829619	1.2 ± 7%	Band Room 13	1072 Ivy Hall Lane Buffalo Grove, IL 60089	8/9/2023	12/28/2023	
829620	1.0 ± 8%	Mat Room 11	1072 Ivy Hall Lane 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*
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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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Page 7 of 7

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