

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
Woodlawn School
6362 Gilmer Road
Long 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 Woodlawn School, 6362 Gilmer Road located in Long 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.

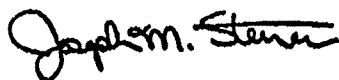
Sixty-four (64) locations were sampled ranging from $0.5 \pm 10\%$ to $3.2 \pm 5\%$. EPA action level is 4pCi/L (picoCuries per liter). This is the level at which EPA Recommends that schools take action to reduce the level.

Conclusion:

Of the 64 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*
829242	0.8 ± 8%	Room 703B (Old Map 707)	6362 Gilmer Road Long Grove, IL 60047	8/9/2023	12/27/2023	
829243	0.8 ± 8%	Room 704	6362 Gilmer Road Long Grove, IL 60047	8/9/2023	12/27/2023	
829244	0.8 ± 8%	Room 706	6362 Gilmer Road Long Grove, IL 60047	8/9/2023	12/27/2023	
829271	0.6 ± 10%	Room 614	6362 Gilmer Road Long Grove, IL 60047	8/9/2023	12/27/2023	
829272	0.5 ± 10%	Room 612	6362 Gilmer Road Long Grove, IL 60047	8/9/2023	12/27/2023	
829273	1.0 ± 7%	Room 607	6362 Gilmer Road Long Grove, IL 60047	8/9/2023	12/27/2023	
829274	0.8 ± 8%	Room SL 610	6362 Gilmer Road Long Grove, IL 60047	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*
829275	0.6 ± 9%	Room 609	6362 Gilmer Road Long Grove, IL 60047	8/9/2023	12/27/2023	1,
829276	0.6 ± 9%	Main Office	6362 Gilmer Road Long Grove, IL 60047	8/9/2023	12/27/2023	
829277	0.7 ± 9%	Nurses Office	6362 Gilmer Road Long Grove, IL 60047	8/9/2023	12/27/2023	
829278	0.7 ± 9%	Room 503	6362 Gilmer Road Long Grove, IL 60047	8/9/2023	12/27/2023	
829279	0.7 ± 9%	Room 500	6362 Gilmer Road Long Grove, IL 60047	8/9/2023	12/27/2023	
829280	0.7 ± 9%	Room 504	6362 Gilmer Road Long Grove, IL 60047	8/9/2023	12/27/2023	
829281	0.8 ± 9%	Room 507	6362 Gilmer Road Long Grove, IL 60047	8/9/2023	12/27/2023	
829282	0.7 ± 9%	Conference Room South East	6362 Gilmer Road Long Grove, IL 60047	8/9/2023	12/27/2023	
829283	0.5 ± 10%	Work Room off 507	6362 Gilmer Road Long Grove, IL 60047	8/9/2023	12/27/2023	
829284	0.8 ± 8%	office Room South Central	6362 Gilmer Road Long Grove, IL 60047	8/9/2023	12/27/2023	
829285	0.7 ± 9%	Office Room South West	6362 Gilmer Road Long Grove, IL 60047	8/9/2023	12/27/2023	
829286	0.6 ± 9%	Room 700	6362 Gilmer Road Long Grove, IL 60047	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*
829287	0.6 ± 10%	Room 702	6362 Gilmer Road Long Grove, IL 60047	8/9/2023	12/27/2023	
829288	0.5 ± 10%	Room 703	6362 Gilmer Road Long Grove, IL 60047	8/9/2023	12/27/2023	
829289	0.6 ± 10%	Room 618	6362 Gilmer Road Long Grove, IL 60047	8/9/2023	12/27/2023	
829290	0.6 ± 9%	Room 616	6362 Gilmer Road Long Grove, IL 60047	8/9/2023	12/27/2023	
829296	0.6 ± 9%	Room 602	6362 Gilmer Road Long Grove, IL 60047	8/9/2023	12/27/2023	
829297	0.8 ± 8%	Room 600	6362 Gilmer Road Long Grove, IL 60047	8/9/2023	12/27/2023	
829298	0.7 ± 9%	Room 511	6362 Gilmer Road Long Grove, IL 60047	8/9/2023	12/27/2023	
829299	0.7 ± 9%	Room 509	6362 Gilmer Road Long Grove, IL 60047	8/9/2023	12/27/2023	
829300	0.7 ± 9%	Home Economics	6362 Gilmer Road Long Grove, IL 60047	8/9/2023	12/27/2023	
829301	0.4 ± 10%	Room 804	6362 Gilmer Road Long Grove, IL 60047	8/9/2023	12/27/2023	
829302	0.7 ± 9%	Room 806	6362 Gilmer Road Long Grove, IL 60047	8/9/2023	12/27/2023	
829303	0.6 ± 9%	Room 808	6362 Gilmer Road Long Grove, IL 60047	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*
829304	0.8 ± 8%	Room 802	6362 Gilmer Road Long Grove, IL 60047	8/9/2023	12/27/2023	
829305	0.5 ± 10%	Room 800	6362 Gilmer Road Long Grove, IL 60047	8/9/2023	12/27/2023	
829306	0.6 ± 9%	Room 712	6362 Gilmer Road Long Grove, IL 60047	8/9/2023	12/27/2023	
829307	0.7 ± 9%	Room 710	6362 Gilmer Road Long Grove, IL 60047	8/9/2023	12/27/2023	
829308	0.7 ± 9%	Room 605	6362 Gilmer Road Long Grove, IL 60047	8/9/2023	12/27/2023	
829309	0.6 ± 9%	Commons/Cafeteria East	6362 Gilmer Road Long Grove, IL 60047	8/9/2023	12/27/2023	
829310	0.5 ± 10%	Commons/Cafeteria West	6362 Gilmer Road Long Grove, IL 60047	8/9/2023	12/27/2023	
829311	0.7 ± 9%	Room 812	6362 Gilmer Road Long Grove, IL 60047	8/9/2023	12/27/2023	
829312	3.2 ± 5%	Room 506	6362 Gilmer Road Long Grove, IL 60047	8/9/2023	12/27/2023	
829313	0.7 ± 9%	Room 816	6362 Gilmer Road Long Grove, IL 60047	8/9/2023	12/27/2023	
829314	0.7 ± 9%	Room 814	6362 Gilmer Road Long Grove, IL 60047	8/9/2023	12/27/2023	
829315	0.7 ± 9%	Room 818	6362 Gilmer Road Long Grove, IL 60047	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

Page 4 of 6

Report shall not be reproduced except in its entirety without the approval of RSSI.

Detector Number	pCi/L	Test Location	Test Address	Start Date	End Date	Note*
829316	0.7 ± 9%	Room 515 Pysch	6362 Gilmer Road Long Grove, IL 60047	8/9/2023	12/27/2023	
829317	0.6 ± 9%	Room 513 Speech	6362 Gilmer Road Long Grove, IL 60047	8/9/2023	12/27/2023	
829318	0.5 ± 10%	Room 716	6362 Gilmer Road Long Grove, IL 60047	8/9/2023	12/27/2023	
829319	0.6 ± 9%	Room 718	6362 Gilmer Road Long Grove, IL 60047	8/9/2023	12/27/2023	
829320	0.6 ± 10%	Room 714	6362 Gilmer Road Long Grove, IL 60047	8/9/2023	12/27/2023	
829321	0.8 ± 8%	Room SL 608	6362 Gilmer Road Long Grove, IL 60047	8/9/2023	12/27/2023	
829322	0.5 ± 10%	Room 601	6362 Gilmer Road Long Grove, IL 60047	8/9/2023	12/27/2023	
829323	0.6 ± 9%	Room 604	6362 Gilmer Road Long Grove, IL 60047	8/9/2023	12/27/2023	
829325	0.5 ± 10%	Room 606	6362 Gilmer Road Long Grove, IL 60047	8/9/2023	12/27/2023	
829331	1.2 ± 7%	Room 809	6362 Gilmer Road Long Grove, IL 60047	8/9/2023	12/27/2023	
829332	0.9 ± 8%	Room 810	6362 Gilmer Road Long Grove, IL 60047	8/9/2023	12/27/2023	
829333	0.6 ± 9%	Room 801	6362 Gilmer Road Long Grove, IL 60047	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*
829334	0.6 ± 9%	Room 807	6362 Gilmer Road Long Grove, IL 60047	8/9/2023	12/27/2023	
829336	0.7 ± 9%	Kitchen	6362 Gilmer Road Long Grove, IL 60047	8/9/2023	12/27/2023	
829338	0.7 ± 9%	Elec Kitchen Area	6362 Gilmer Road Long Grove, IL 60047	8/9/2023	12/27/2023	
829339	0.6 ± 10%	Band Room 402	6362 Gilmer Road Long Grove, IL 60047	8/9/2023	12/27/2023	
829340	0.6 ± 9%	Rec Kitchen Area	6362 Gilmer Road Long Grove, IL 60047	8/9/2023	12/27/2023	
829597	0.8 ± 8%	Gym North Room	6362 Gilmer Road Long Grove, IL 60047	8/9/2023	12/27/2023	
829598	0.6 ± 9%	Gym East	6362 Gilmer Road Long Grove, IL 60047	8/9/2023	12/27/2023	
829599	0.5 ± 10%	Gym Center	6362 Gilmer Road Long Grove, IL 60047	8/9/2023	12/27/2023	

Analyzed By:



Zoe Darlington
Radon Analyst

01/04/2024

Analysis Date

END REPORT

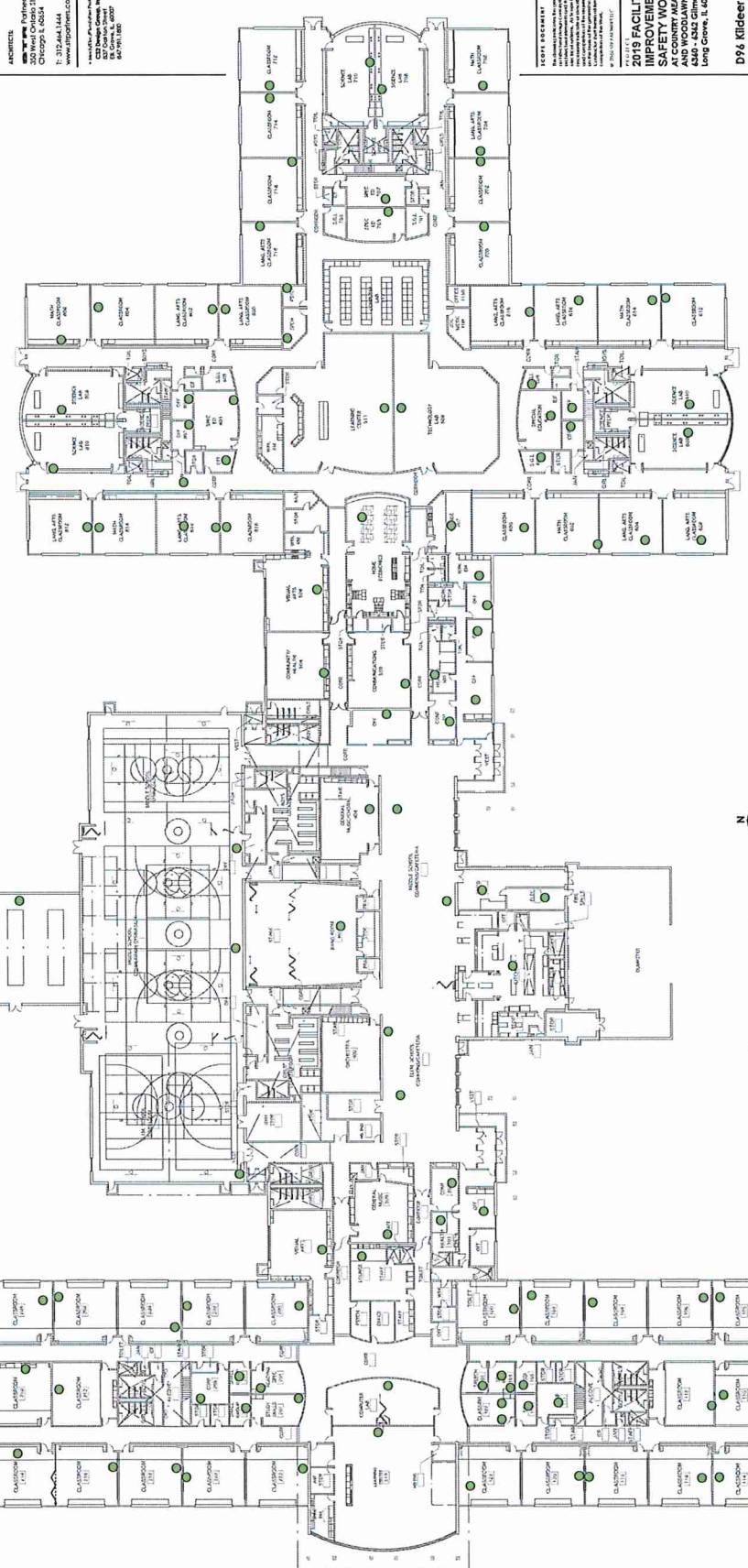
* 1-Broken Seal, 2-Damaged Filter, 3-Loose Test Material, 4-Missing Test Material, 5-Missing End Date, 6-Missing Start Date, 7-Less Than 8 Days, 8-Past Expiration Date, 9-Missing Both Dates, NA-No applicable notes

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

Page 6 of 6

Report shall not be reproduced except in its entirety without the approval of RSSI.



1 FIRST FLOOR PLAN
 SCALE: 1" = 20'-0"

NOTES:
 1. SEE SHEET 180388-01 FOR GENERAL NOTES.
 2. SEE SHEET 180388-02 FOR GENERAL NOTES.
 3. SEE SHEET 180388-03 FOR GENERAL NOTES.
 4. SEE SHEET 180388-04 FOR GENERAL NOTES.
 5. SEE SHEET 180388-05 FOR GENERAL NOTES.
 6. SEE SHEET 180388-06 FOR GENERAL NOTES.
 7. SEE SHEET 180388-07 FOR GENERAL NOTES.
 8. SEE SHEET 180388-08 FOR GENERAL NOTES.
 9. SEE SHEET 180388-09 FOR GENERAL NOTES.
 10. SEE SHEET 180388-10 FOR GENERAL NOTES.