

Sent via electronic mail: aneta.mistak@d214.org

Ms. Aneta Mistak
Assistant Director of Operations
Township High School District 214
2121 S. Goebbert Road
Arlington Heights, IL 60005

Re: Radon Testing – John Hersey High School and Happy Huskies Day Care

Dear Ms. Mistak:

Date February 7, 2024

In January 2013 the Illinois Emergency Management Agency (IEMA) enacted new legislation regarding the testing of licensed Day Care Centers and Day Care Homes for Radon. The legislation requires retesting every three (3) years. Signed into law on January 1, 2010, Public Act 96-0417 recommends, requires and/or authorizes the following action with regard to radon and schools in Illinois:

1. Recommends all Illinois school districts test their school buildings every five years.
2. Requires Illinois schools that do test for radon to report the results to the State Board of Education. The State Board of Education will then report radon test data bi-annually to the General Assembly. This data will be made public.

Ramboll
333 W. Wacker Drive
Suite 1050
Chicago, IL 60606
USA

T + 1 312 288 3800
<https://ramboll.com>

Ref 1940105696-005

At the request of Township High School District 214 (THSD214), Ramboll Americas Engineering Services, Inc. (Ramboll) retained Radon Detection Specialists, Inc. to perform a radon survey at John Hersey High School (JHHS), 1900 E. Thomas Street, Arlington Heights, Illinois. The radon testing included the high school and Happy Huskies Day Care. Radon Detection Specialists are licensed by the IEMA Department of Nuclear Safety for both residential and commercial radon testing. The survey was conducted from December 11-13, 2023.

Radon is an odorless, tasteless, and colorless radioactive gas that comes from the decay of naturally occurring uranium in the soil. At JHHS, two-hundred and fifty-five (255) passive radon detection devices (electret ionization chambers – Eperms™) were deployed in two-hundred and nineteen (219) locations on December 11 and retrieved on December 13, 2023 for this survey. The Eperms were placed in the rooms by a State of Illinois Licensed Radon Professional.

Radon measurements were determined to be below the United States Environmental Protection Agency (USEPA) and IEMA Division of Nuclear Safety Action Level (AL) of 4.0 picocuries per liter (pCi/L). The results in three locations were invalid and one Eperm was missing. Retesting in these four (4) locations was completed from January 16-19, 2024. Results of the retesting indicated that radon measurements were below the AL of 4.0 pCi/L in all locations including the day care.

Attached is the full report forwarded from Radon Detection Specialists outlining basics of radon and radon health impacts, scope of work, quality assurance plan,

device results and site notes, summary, and recommendations. Radon testing completion certificates are also attached. Please note that the certificates must be posted adjacent to the day care license until the next round of testing.

If you have any questions regarding the above report, please do not hesitate to contact our office. Ramboll thanks you for the opportunity to be of continued service to Township High School District 214.

Sincerely,

Ramboll Americas Engineering Solutions, Inc.



Scott C. Fountain
Managing Consultant

D 312.288.3819
sfountain@ramboll.com

Reviewed and Approved by,



Kevin E. Aikman, Ph.D., CIH, FAIHA
Principal

D 312.288.3808
kaikman@ramboll.com

ATTACHMENT



RADON TEST REPORT
INITIAL RADON MEASUREMENT

FACILITY NAME: JOHN HERSEY HIGH SCHOOL

Test Site: 1900 E Thomas Street
Arlington Heights, IL 60004

Report Date: December 14, 2023



Radon Detection Specialists, Inc.
825 N Cass Avenue. • Suite 310
Westmont, IL 60559
630-325-4443

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Report Prepared By: Kirsten Schmidt, NRPP018034RMP,
NRSB1355016, RNI2006214
kirstens@radondetection.net

Facility Name: John Hersey High School
Test Site: 1900 E Thomas Street
Arlington Heights, IL 60004
Test Dates: Tuesday, December 12, 2023 to Thursday, December 14, 2023

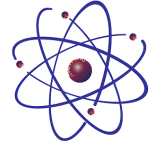
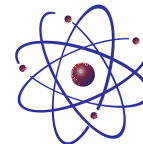


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Section 1.0 Radon Health Effects

Radon is recognized by the Environmental Protection Agency as well as the scientific and medical communities as a Class A carcinogen, accounting for 15,000 – 22,000 lung cancer deaths annually. Exposure to radon gas is the leading cause of lung cancer among non-smokers.

Radon is a naturally occurring, radioactive gas which comes from the soil. It can't be seen, smelled or tasted. The only way to know if the level of radon gas in your building exceeds the recommended Action Level of 4.0 pCi/L is to test. The Department of Nuclear Safety in Illinois requires those testing for radon in commercial buildings, schools and multi-family housing communities, as well as individual residences, to be properly licensed.

The amount of radon in the soil depends on soil chemistry, which naturally varies. Radon levels in the soil can range from a few hundred to several thousands of pCi/L (pico Curies per liter of air). The amount of radon that escapes from the soil and enters the building depends on the weather, soil porosity, soil moisture, and the suction within the building.

Radon is the leading cause of lung cancer among non-smokers.

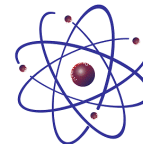
- There is no safe level of radon exposure. Any exposure causes some risk of developing cancer. The National Academy of Sciences (NAS) concluded that only cigarette smoking poses a greater risk. Exposure to radon accounts for 10% of all lung cancer deaths annually.
- As we breathe, the alpha radiation from radon and its decay products cause damage to the sensitive lung tissue. Most of the radiation dose is not actually from radon itself, but rather from radon's chain of short-lived decay products that are inhaled and lodge in the airways of the lungs. These radionuclides decay quickly, producing other radionuclides that continue damaging the lung tissue. Those particles that are retained long enough release radiation and damage the surrounding lung tissue. It is this damage that can lead to lung cancer.

What other health risks are related to radon exposure?

- No other respiratory ailments are linked to radon exposure.
- There are preliminary studies that are looking at the link between radon exposure and the development of Parkinson's and Alzheimer's disease. These are early studies, and research is on-going.



Facility Name: John Hersey High School
Test Site: 1900 E Thomas Street
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Section 2.0 Radon Testing Protocol for This Site

Pre-Deployment Testing Strategy

Measurements will be conducted in all areas of the subject building with soil contact, as well as 10% of upper level rooms calculated on a per floor basis. A minimum of 1 detector will be placed every 2000 square feet in open areas. Measurements will not be conducted in rooms that are not frequently occupied such as closets, storage rooms, restrooms, hallways, and stairwells unless the space is considered alterable for future regular use, or the measurement is taken for diagnostic purposes.

Materials and Methods

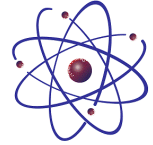
RDS will use electret ionization chambers to measure radon levels in the air in the above referenced property. The test will comply with all protocols set forth by IEMA and ANSI/AARST, as well as the RDS Quality Assurance Plan.

Duplicate measurements will be conducted for not less than 10% of the total single devices placed to measure precision. Field blanks will be deployed for not less than 5% of the total number of single measurements deployed to measure background gamma radiation. Spike tests are conducted monthly at an independent lab, at a minimum of 3% for the total number of devices deployed (annually) or at a rate of 6 spikes per calendar month, to measure accuracy. The initial voltage reading will take place not more than 24 hours prior to deployment and the final voltage of the devices will be determined within 24 hours of retrieval.

RDS will locate devices in such a way to limit unintentional interference from building occupants. A walk-through inspection of the building will allow RDS to document observations regarding radon entry mechanisms and general building pressure gradients. Measurement results will be reported in picoCuries per liter (pCi/L) of air.



Facility Name: John Hersey High School
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Section 3.0 Scope of Work Performed

Radon Detection Specialists performed an Initial Radon Measurement at John Hersey High School, located at 1900 E Thomas Street, in Arlington Heights, Illinois.

This scope of work included a 2-day (short-term) radon test. This measurement was conducted from Tuesday, December 12, 2023 to Thursday, December 14, 2023.

The testing was conducted in accordance with the Illinois Emergency Management Agency Department of Nuclear Safety (IEMA) and the United States Environmental Protection Agency testing protocols for commercial radon measurements, ANSI/AARST standards, the device manufacturer's recommendations, and the RDS Quality Assurance Plan.

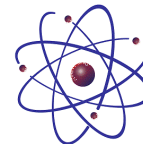
The devices used at this facility were electret ionization chambers (Eperms™) manufactured by RadElec, Inc.

A total of 255 devices were deployed at this site in these configurations:

Measurement Type	Number of Devices
Single	219
Duplicate	24
Blank	12



Facility Name: John Hersey High School
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Section 4.0 Site Conditions and Device Placement

Site Conditions

1. The subject building was occupied and fully-functional during this radon measurement.
2. The testing period was noted to have been unremarkable in terms of changes/repairs to the building functionality and the weather.
3. At device retrieval, the testing devices deployed in 179 South Wall, 188 West Wall, and 244 Area were noted to have been prematurely closed. The results for these locations are invalid.
4. At device retrieval, the testing device deployed in 133 D Office was noted to be missing. There are no results for this location.

Device Locations

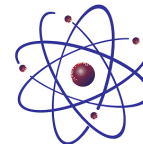
If an appropriate and accurate drawing is provided by the client and dimensional device plotting is possible, Appendix B provides a detailed drawing showing the device locations. If Appendix B is blank, please refer to the Device Placement columns provided in Appendix A (Room Use and Room Number) as an explanation of device locations.

The building was tested in accordance with IEMA and ANSI/AARST protocols with regard to device placement and analytical methods of calculating results.

1. Tampering was not detected at the time the devices were retrieved, unless noted in the Comment Column.
2. Devices were placed strategically to reduce accidental interference by building occupants.
3. Duplicates are averaged together. It is the average of the two devices upon which Follow-Up Testing and mitigation decisions should be based.



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Section 5.0 Test Location Results and Recommendations

Test Location Results Table

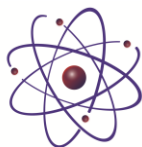
The table below lists the radon test results by location in the facility.

Because radon levels fluctuate hourly, daily, weekly, seasonally and yearly, these results should not be used to estimate radon levels of rooms that were not measured, or to estimate future radon levels of rooms that were measured.

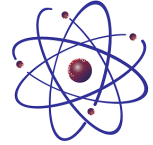
Changes to the building components (both structural and mechanical) can affect radon concentrations.

The EPA Action Level is 4.0 picoCuries per Liter (pCi/L).

Location #	Room Name/Number	Description	Results (pCi/L)
1	171A	Office	0.1
2	171	Classroom	0.1
3	Theater Back Stage	Area	0.6
4	173	Storage	0.7
5	173 Costume Room	Room	0.9
6	172	Area	0.4
7	176A	Office	2.0
8	176B	Office	0.1
9	176	Classroom	0.6
10	175	Classroom	0.0
11	175 Office	Office	0.4
12	175 Storage	Storage	3.1
13	176C	Storage	0.8
14	177	Classroom	1.0
15	178H	Office	1.7
16	178C	Classroom	0.7
17	178	Classroom	0.7
18	178G	Classroom	1.0
19	178F	Classroom	-0.1
20	178E	Classroom	0.7
21	178D	Classroom	0.9
22	178B	Classroom	0.5



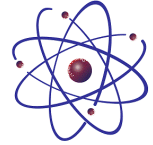
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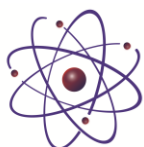
23	178A	Classroom	0.7
24	194E	Maintenance	1.0
25	194	Classroom	0.7
26	194B	Storage	1.4
27	194 Balcony	Area	0.9
28	190	Storage	0.4
29	190A	Maintenance	0.9
30	191	Classroom	0.7
31	192	Classroom	2.5
32	193	Storage	1.0
33	189 North Wall	Area	1.7
34	189 South Wall	Area	0.9
35	179 North Wall	Classroom	0.7
36	179 South Wall	Classroom	Invalid
37	180	Office	0.6
38	180A	Office	1.3
39	188 North Wall	Area	1.1
40	188 East Wall	Area	1.6
41	188 South Wall	Area	1.3
42	188A	Storage	1.3
43	188 West Wall	Area	Invalid
44	186	Room	1.5
45	182	Classroom	0.2
46	183 West Wall	Area	0.4
47	183 North Wall	Area	1.0
48	183 East Wall	Area	1.3
49	183 South Wall	Area	2.6
50	Security Office Door 1	Office	3.1
51	244	Area	Invalid
52	163B	Office	0.7
53	163E	Office	1.0
54	163 G	Office	0.1
55	163F	Office	0.5
56	163C	Office	0.5
57	163A	Office	1.0
58	102A	Office	1.0
59	102	Classroom	1.7
60	104	Classroom	0.1
61	104A	Office	1.2



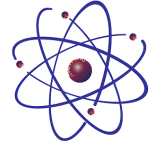
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62	101	Classroom	1.4
63	103	Classroom	0.9
64	106A	Office	1.0
65	106B	Office	0.1
66	106	Classroom	0.5
67	105	Classroom	0.7
68	108	Classroom	1.7
69	107	Office	1.7
70	107B	Office	1.0
71	107A	Storage	2.3
72	109	Classroom	1.3
73	111	Classroom	1.3
74	110	Classroom	1.4
75	113	Classroom	1.5
76	115A	Office	1.3
77	115B	Storage	1.9
78	115	Classroom	1.4
79	117	Classroom	1.8
80	116	Classroom	1.2
81	118	Classroom	0.8
82	118A	Office	1.1
83	119	Classroom	2.3
84	121	Classroom	1.7
85	120A	Office	0.9
86	120	Classroom	2.0
87	122	Classroom	1.0
88	122A	Office	2.1
89	239	Classroom	0.0
90	233	Classroom	0.7
91	226	Classroom	0.9
92	210	Office	0.4
93	205	Classroom	1.1
94	217	Room	0.2
95	125H	Office	1.0
96	125I	Office	1.9
97	125J	Office	0.4
98	125K	Office	0.3
99	125A	Classroom	0.7
100	125B	Classroom	0.7



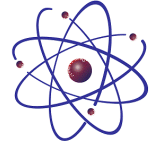
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101	125C	Classroom	1.0
102	125D	Classroom	0.7
103	125E	Office	0.5
104	125F	Classroom	0.4
105	125G	Room	1.5
106	123	Office	0.8
107	123C	Kitchen	1.2
108	123A	Room	0.2
109	123B	Office	0.7
110	Library	Area	0.4
111	124A	Classroom	0.6
112	124B	Classroom	0.5
113	124D	Classroom	0.4
114	124F	Classroom	0.9
115	162H	Office	0.2
116	162I	Office	0.5
117	162F	Office	1.6
118	162J	Office	1.1
119	162K	Office	0.4
120	162Z	Office	0.5
121	162L	Office	0.4
122	162E	Office	1.9
123	162M	Office	0.6
124	162D	Office	0.4
125	162O	Office	0.7
126	162	Office	0.1
127	162A	Office	0.7
128	162B	Office	0.5
129	162T	Office	0.7
130	162S	Office	0.4
131	162R	Office	1.6
132	161A	Office	0.2
133	162G	Office	0.4
134	161	Room	-0.1
135	166F	Office	1.2
136	166C	Office	0.1
137	166B	Office	-0.1
138	166A	Office	0.1
139	166	Office	1.0



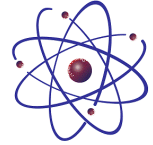
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140	166D	Office	0.9
141	164	Office	0.2
142	166E	Office	0.7
143	162O	Office	0.9
144	159	Area	0.9
145	159A	Office	0.6
146	159B	Room	1.0
147	159C	Room	1.0
148	157	Classroom	1.1
149	160	Classroom	0.8
150	158	Classroom	0.8
151	155	Classroom	0.4
152	156	Classroom	1.0
153	153	Classroom	1.2
154	153A	Office	1.1
155	151A	Office	0.2
156	151	Classroom	1.0
157	150	Classroom	1.0
158	154	Classroom	0.7
159	152	Classroom	0.7
160	130B	Office	0.2
161	130A	Office	0.9
162	132B	Office	0.7
163	132	Classroom	0.9
164	131	Classroom	1.0
165	129	Classroom	0.8
166	130	Classroom	1.2
167	128	Classroom	0.9
168	127	Classroom	1.1
169	Cafeteria	Room	0.9
170	Cafeteria	Room	0.9
171	Serving Lanes	Room	0.8
172	Kitchen	Kitchen	1.1
173	Serving Lanes Storage	Storage	0.7
174	Faculty Lounge	Room	0.4
175	Kitchen Office	Office	3.1
176	Kitchen Storage	Storage	1.2
177	165A	Area	0.9
178	148A	Classroom	0.9



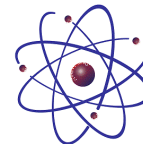
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179	149A	Classroom	0.2
180	148	Classroom	0.7
181	146	Classroom	0.6
182	146 Office	Office	0.4
183	136	Classroom	1.2
184	138	Classroom	1.2
185	148B	Room	1.4
186	135C	Classroom	0.6
187	135D	Room	1.0
188	131A	Office	0.8
189	131B	Office	0.9
190	133A	Classroom	0.8
191	133B	Office	0.5
192	133C	Classroom	3.1
193	133D	Office	Missing
194	135A	Classroom	1.0
195	135B	Office	-0.1
196	149 Storage	Storage	1.2
197	149B	Office	1.3
198	149	Area	0.7
199	Boiler Room	Room	0.7
200	137	Classroom	0.9
201	139	Classroom	0.7
202	139 Office	Office	0.9
203	140	Classroom	1.0
204	141	Office	1.0
205	141B	Storage	1.0
206	141A	Storage	0.7
207	142	Classroom	1.2
208	142A	Classroom	1.1
209	142B	Office	2.0
210	143	Classroom	0.6
211	Wood Shop	Classroom	0.7
212	Auto Shop	Classroom	0.6
213	138B	Room	1.0
214	144B	Storage	0.4
215	145	Classroom	1.5
216	145A	Classroom	0.7
217	145B	Office	1.7



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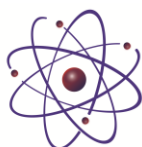
218	144	Classroom	1.0
219	144A	Office	0.7

All of the regularly occupiable locations for which there were valid measurements had average readings below the Action Level of 4.0 pCi/L. No additional testing is recommended at this time.

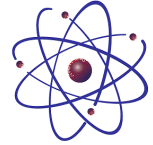
Because different ventilation systems and varying seasonal pressures can influence radon levels, it is the recommendation of this testing professional to perform another short-term test in two years, in an alternating season, to establish an alternate seasonal baseline.

List of Locations with Missing Devices or Invalid Results:		
Recommendation: <i>Perform another measurement.</i>		
Room Name/Number	Description	Notes
133D	Office	Missing
179 South Wall	Classroom	Invalid
188 West Wall	Area	Invalid
244	Area	Invalid

It is the recommendation of this testing professional to perform another short-term test in locations with invalid or missing measurements.



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A Note about Long-Term Testing

The EPA and IEMA Action Level of 4.0 pCi/L is based on annual average exposure. As a matter of best practice in measurement, a long-term measurement is the best way to determine occupants' annual exposure because radon levels vary hourly, daily, weekly, seasonally, and over the years. Long-term testing (lasting 90 days to one year) provides a better understanding of building radon concentrations and the risks of exposure to radon.

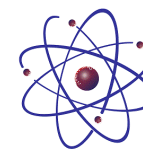
To have a thorough understanding of occupants' risk of exposure, a long-term measurement is always recommended. This type of measurement will provide the best indication of radon concentrations and are the basis upon which mitigation decisions should be made.

Should you choose to engage in a long-term measurement as recommended, please contact us for further details.



Radon Detection Specialists, Inc.
825 N Cass Avenue. • Suite 310
Westmont, IL 60559
630-325-4443

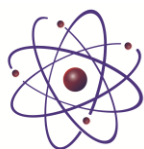
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Appendix A: Device Table

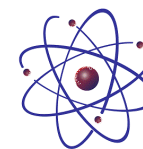
The table below lists all the devices deployed and their reported radon levels. The results were determined using calculations supplied by the device manufacturer.

Location #	Serial Number	Room Name/Number	Room Description	Foundation	Occupiable?	Start Day/Time	V1	End Day/Time	V2	Invalid or Missing?	Device Radon Level (pCi/L)	Set Type
1	SDH535	171A	Office	Slab-on-Grade	Yes	12/12/2023 9:37 AM	377	12/14/2023 10:48 AM	374		0.1	S
2	SDH441	171	Classroom	Slab-on-Grade	Yes	12/12/2023 9:39 AM	375	12/14/2023 10:49 AM	372		0.1	S
3	SNH633	Theater Back Stage	Area	Slab-on-Grade	Yes	12/12/2023 9:45 AM	419	12/14/2023 10:51 AM	414		0.6	S
4	SDQ581	173	Storage	Slab-on-Grade	Yes	12/12/2023 9:48 AM	316	12/14/2023 10:56 AM	311		0.7	S
5	SND444	173 Costume Room	Room	Slab-on-Grade	Yes	12/12/2023 9:50 AM	383	12/14/2023 10:56 AM	377		0.9	S
6	SMR713	172	Area	Slab-on-Grade	Yes	12/12/2023 9:51 AM	282	12/14/2023 10:52 AM	278		0.4	S
7	SNG088	176A	Office	Slab-on-Grade	Yes	12/12/2023 10:00 AM	367	12/14/2023 10:59 AM	357		2.0	S
8	SNE473	176B	Office	Slab-on-Grade	Yes	12/12/2023 10:01 AM	560	12/14/2023 10:59 AM	557		0.1	S



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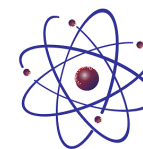
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9	SND489	176	Classroom	Slab-on-Grade	Yes	12/12/2023 10:02 AM	500	12/14/2023 11:00 AM	495		0.6	S
10	SDU707	175	Classroom	Slab-on-Grade	Yes	12/12/2023 10:03 AM	141	12/14/2023 11:02 AM	139		0.0	S
11	SDS056	175 Office	Office	Slab-on-Grade	Yes	12/12/2023 10:05 AM	276	12/14/2023 11:03 AM	272		0.4	S
12	SNI583	175 Storage	Storage	Slab-on-Grade	Yes	12/12/2023 10:08 AM	215	12/14/2023 11:03 AM	202		3.1	S
13	SDM788	176C	Storage	Slab-on-Grade	Yes	12/12/2023 10:11 AM	185	12/14/2023 11:05 AM	180		0.8	S
13	SND430	176C	Storage	Slab-on-Grade	Yes	12/12/2023 10:11 AM	320	12/14/2023 11:05 AM	315		0.7	D
14	SDF658	177	Classroom	Slab-on-Grade	Yes	12/12/2023 10:13 AM	306	12/14/2023 11:06 AM	300		1.0	S
14	SDW300	177	Classroom	Slab-on-Grade	Yes	12/12/2023 10:13 AM	92	12/14/2023 11:07 AM	92		-0.7	B
15	SDC880	178H	Office	Slab-on-Grade	Yes	12/12/2023 10:15 AM	358	12/14/2023 11:08 AM	349		1.7	S
16	SDK180	178C	Classroom	Slab-on-Grade	Yes	12/12/2023 10:16 AM	304	12/14/2023 11:15 AM	299		0.7	S
17	SDH386	178	Classroom	Slab-on-Grade	Yes	12/12/2023 10:17 AM	268	12/14/2023 11:14 AM	263		0.7	S
18	SNS104	178G	Classroom	Slab-on-Grade	Yes	12/12/2023 10:19 AM	709	12/14/2023 11:13 AM	702		1.0	S
19	SNG673	178F	Classroom	Slab-on-Grade	Yes	12/12/2023 10:20 AM	324	12/14/2023 11:14 AM	322		-0.1	S
20	SDU751	178E	Classroom	Slab-on-Grade	Yes	12/12/2023 10:21 AM	326	12/14/2023 11:12 AM	321		0.7	S
21	SDW777	178D	Classroom	Slab-on-Grade	Yes	12/12/2023 10:21 AM	121	12/14/2023 11:10 AM	116		0.9	S



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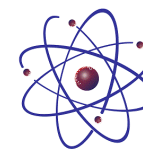


22	SDF700	178B	Classroom	Slab-on-Grade	Yes	12/12/2023 10:24 AM	192	12/14/2023 11:16 AM	188		0.5	S
23	SMR820	178A	Classroom	Slab-on-Grade	Yes	12/12/2023 10:25 AM	289	12/14/2023 11:18 AM	284		0.7	S
24	SNG574	194E	Maintenance	Slab-on-Grade	Yes	12/12/2023 10:30 AM	103	12/14/2023 11:19 AM	98		1.0	S
25	SNF957	194	Classroom	Slab-on-Grade	Yes	12/12/2023 10:32 AM	288	12/14/2023 11:20 AM	283		0.7	S
26	SDC878	194B	Storage	Slab-on-Grade	Yes	12/12/2023 10:35 AM	223	12/14/2023 11:22 AM	215		1.6	S
26	SDG054	194B	Storage	Slab-on-Grade	Yes	12/12/2023 10:35 AM	402	12/14/2023 11:22 AM	395		1.2	D
27	SLL670	194 Balcony	Area	2nd Floor	Yes	12/12/2023 10:38 AM	117	12/14/2023 11:25 AM	112		0.9	S
28	SMT327	190	Storage	Slab-on-Grade	Yes	12/12/2023 10:41 AM	430	12/14/2023 11:26 AM	426		0.4	S
29	SDW424	190A	Maintenance	Slab-on-Grade	Yes	12/12/2023 10:43 AM	376	12/14/2023 11:27 AM	370		0.9	S
30	SND492	191	Classroom	Slab-on-Grade	Yes	12/12/2023 10:44 AM	490	12/14/2023 11:28 AM	485		0.6	S
30	SDW621	191	Classroom	Slab-on-Grade	Yes	12/12/2023 10:44 AM	255	12/14/2023 11:29 AM	250		0.7	D
31	SDU730	192	Classroom	Slab-on-Grade	Yes	12/12/2023 10:46 AM	226	12/14/2023 11:30 AM	215		2.5	S
32	SDG128	193	Storage	Slab-on-Grade	Yes	12/12/2023 10:50 AM	317	12/14/2023 11:31 AM	311		1.0	S
33	SDK195	189 North Wall	Area	Slab-on-Grade	Yes	12/12/2023 10:55 AM	427	12/14/2023 11:33 AM	418		1.7	S
34	SNH750	189 South Wall	Area	Slab-on-Grade	Yes	12/12/2023 10:57 AM	506	12/14/2023 11:34 AM	500		0.9	S



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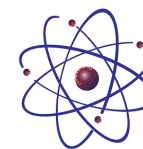


35	SMT129	179 North Wall	Classroom	Slab-on-Grade	Yes	12/12/2023 11:27 AM	372	12/14/2023 11:37 AM	367		0.7	S
36	SDG505	179 South Wall	Classroom	Slab-on-Grade	Yes	12/12/2023 11:30 AM	299	12/14/2023 11:38 AM	294	Invalid		S
37	SDF621	180	Office	Slab-on-Grade	Yes	12/12/2023 11:31 AM	260	12/14/2023 11:41 AM	255		0.8	S
37	SDH409	180	Office	Slab-on-Grade	Yes	12/12/2023 11:32 AM	381	12/14/2023 11:40 AM	377		0.4	D
38	SMR607	180A	Office	Slab-on-Grade	Yes	12/12/2023 11:33 AM	308	12/14/2023 11:42 AM	301		1.3	S
39	SLL714	188 North Wall	Area	Slab-on-Grade	Yes	12/12/2023 11:36 AM	188	12/14/2023 11:45 AM	182		1.1	S
40	SND531	188 East Wall	Area	Slab-on-Grade	Yes	12/12/2023 11:38 AM	540	12/14/2023 11:46 AM	531		1.6	S
41	SDQ677	188 South Wall	Area	Slab-on-Grade	Yes	12/12/2023 11:41 AM	321	12/14/2023 11:47 AM	314		1.3	S
42	SNG642	188A	Storage	Slab-on-Grade	Yes	12/12/2023 11:43 AM	261	12/14/2023 11:48 AM	254		1.3	S
43	SNE692	188 West Wall	Area	Slab-on-Grade	Yes	12/12/2023 11:46 AM	551	12/14/2023 11:43 AM	544	Invalid		S
44	SDH533	186	Room	Slab-on-Grade	Yes	12/12/2023 11:49 AM	136	12/14/2023 11:51 AM	129		1.5	S
45	SDG426	182	Classroom	Slab-on-Grade	Yes	12/12/2023 11:56 AM	288	12/14/2023 11:54 AM	285		0.2	S
46	SDF785	183 West Wall	Area	Slab-on-Grade	Yes	12/12/2023 11:58 AM	421	12/14/2023 11:56 AM	417		0.4	S
47	SDQ661	183 North Wall	Area	Slab-on-Grade	Yes	12/12/2023 12:00 PM	298	12/14/2023 11:55 AM	292		1.0	S
48	SMR791	183 East Wall	Area	Slab-on-Grade	Yes	12/12/2023 12:04 PM	270	12/14/2023 11:57 AM	263		1.3	S



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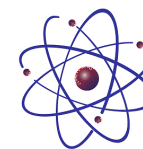


49	SDU913	183 South Wall	Area	Slab-on-Grade	Yes	12/12/2023 12:10 PM	108	12/14/2023 12:02 PM	98		2.6	S
50	SNF950	Security Office Door 1	Office	Slab-on-Grade	Yes	12/12/2023 12:14 PM	380	12/14/2023 12:04 PM	366		3.1	S
51	SDW750	244	Area	2nd Floor	Yes	12/12/2023 12:18 PM	262	12/14/2023 12:07 PM	258	Invalid		S
52	SNI426	163B	Office	Slab-on-Grade	Yes	12/12/2023 12:23 PM	420	12/14/2023 12:09 PM	415		0.7	S
53	SDK231	163E	Office	Slab-on-Grade	Yes	12/12/2023 12:24 PM	234	12/14/2023 12:11 PM	228		1.1	S
53	SDH601	163E	Office	Slab-on-Grade	Yes	12/12/2023 12:25 PM	166	12/14/2023 12:11 PM	161		0.9	D
54	SNE575	163 G	Office	Slab-on-Grade	Yes	12/12/2023 12:26 PM	441	12/14/2023 12:13 PM	438		0.1	S
54	SDV801	163 G	Office	Slab-on-Grade	Yes	12/12/2023 12:26 PM	94	12/14/2023 12:12 PM	93		-0.3	B
55	SND524	163F	Office	Slab-on-Grade	Yes	12/12/2023 12:27 PM	283	12/14/2023 12:12 PM	279		0.5	S
56	SDQ706	163C	Office	Slab-on-Grade	Yes	12/12/2023 12:28 PM	269	12/14/2023 12:15 PM	265		0.5	S
57	SDC892	163A	Office	Slab-on-Grade	Yes	12/12/2023 12:30 PM	300	12/14/2023 12:15 PM	294		1.0	S
58	SDF668	102A	Office	Slab-on-Grade	Yes	12/12/2023 12:32 PM	269	12/14/2023 12:17 PM	263		1.0	S
59	SNF988	102	Classroom	Slab-on-Grade	Yes	12/12/2023 12:33 PM	480	12/14/2023 12:18 PM	471		1.7	S
60	SNE456	104	Classroom	Slab-on-Grade	Yes	12/12/2023 12:35 PM	534	12/14/2023 12:19 PM	531		0.1	S
61	SNG136	104A	Office	Slab-on-Grade	Yes	12/12/2023 12:36 PM	483	12/14/2023 12:20 PM	476		1.2	S



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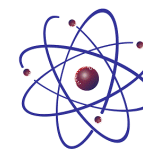
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61	SDW467	104A	Office	Slab-on-Grade	Yes	12/12/2023 12:37 PM	153	12/14/2023 12:21 PM	147		1.2	D
62	SNS213	101	Classroom	Slab-on-Grade	Yes	12/12/2023 12:38 PM	591	12/14/2023 12:22 PM	583		1.4	S
63	SNG843	103	Classroom	Slab-on-Grade	Yes	12/12/2023 12:39 PM	594	12/14/2023 12:25 PM	588		0.9	S
64	SDU854	106A	Office	Slab-on-Grade	Yes	12/12/2023 12:41 PM	307	12/14/2023 12:24 PM	301		1.0	S
64	SND426	106A	Office	Slab-on-Grade	Yes	12/12/2023 12:41 PM	322	12/14/2023 12:23 PM	322		-0.7	B
65	SNG688	106B	Office	Slab-on-Grade	Yes	12/12/2023 12:42 PM	500	12/14/2023 12:27 PM	497		0.1	S
66	SNE650	106	Classroom	Slab-on-Grade	Yes	12/12/2023 12:44 PM	270	12/14/2023 12:28 PM	266		0.5	S
67	SNG218	105	Classroom	Slab-on-Grade	Yes	12/12/2023 12:45 PM	333	12/14/2023 12:30 PM	328		0.7	S
68	SDV903	108	Classroom	Slab-on-Grade	Yes	12/12/2023 12:47 PM	104	12/14/2023 12:29 PM	97		1.7	S
69	SMT306	107	Office	Slab-on-Grade	Yes	12/12/2023 12:49 PM	200	12/14/2023 12:36 PM	192		1.7	S
70	SDQ624	107B	Office	Slab-on-Grade	Yes	12/12/2023 12:51 PM	381	12/14/2023 12:36 PM	375		1.0	S
71	SDG004	107A	Storage	Slab-on-Grade	Yes	12/12/2023 1:00 PM	458	12/14/2023 12:37 PM	446		2.5	D
71	SND355	107A	Storage	Slab-on-Grade	Yes	12/12/2023 1:00 PM	389	12/14/2023 12:35 PM	379		2.1	S
72	SDG164	109	Classroom	Slab-on-Grade	Yes	12/12/2023 1:01 PM	362	12/14/2023 12:38 PM	355		1.3	S
72	SDG420	109	Classroom	Slab-on-Grade	Yes	12/12/2023 1:02 PM	163	12/14/2023 12:38 PM	163		-0.7	B



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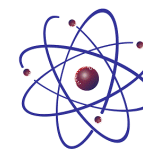


73	SND521	111	Classroom	Slab-on-Grade	Yes	12/12/2023 1:03 PM	363	12/14/2023 12:39 PM	356		1.3	S
74	SDW215	110	Classroom	Slab-on-Grade	Yes	12/12/2023 1:04 PM	218	12/14/2023 12:40 PM	211		1.4	S
75	SDH361	113	Classroom	Slab-on-Grade	Yes	12/12/2023 1:05 PM	170	12/14/2023 12:41 PM	163		1.5	S
76	SMT165	115A	Office	Slab-on-Grade	Yes	12/12/2023 1:07 PM	339	12/14/2023 12:42 PM	332		1.3	S
77	SDK175	115B	Storage	Slab-on-Grade	Yes	12/12/2023 1:09 PM	300	12/14/2023 12:43 PM	291		1.9	S
78	SDM152	115	Classroom	Slab-on-Grade	Yes	12/12/2023 1:11 PM	204	12/14/2023 12:44 PM	197		1.4	S
78	SNG110	115	Classroom	Slab-on-Grade	Yes	12/12/2023 1:12 PM	294	12/14/2023 12:44 PM	287		1.3	D
79	SDQ586	117	Classroom	Slab-on-Grade	Yes	12/12/2023 1:13 PM	152	12/14/2023 12:46 PM	144		1.8	S
80	SMR638	116	Classroom	Slab-on-Grade	Yes	12/12/2023 1:14 PM	457	12/14/2023 12:47 PM	450		1.2	S
81	SDU853	118	Classroom	Slab-on-Grade	Yes	12/12/2023 1:16 PM	240	12/14/2023 12:49 PM	235		0.8	S
82	SNH791	118A	Office	Slab-on-Grade	Yes	12/12/2023 1:17 PM	480	12/14/2023 12:50 PM	474		0.9	S
82	SDG105	118A	Office	Slab-on-Grade	Yes	12/12/2023 1:17 PM	163	12/14/2023 12:49 PM	157		1.2	D
83	SDU794	119	Classroom	Slab-on-Grade	Yes	12/12/2023 1:19 PM	398	12/14/2023 12:51 PM	387		2.3	S
84	SDF770	121	Classroom	Slab-on-Grade	Yes	12/12/2023 1:23 PM	243	12/14/2023 12:57 PM	235		1.7	S
85	SDW167	120A	Office	Slab-on-Grade	Yes	12/12/2023 1:24 PM	402	12/14/2023 12:55 PM	396		1.0	S



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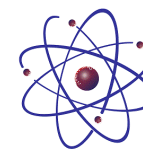
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85	SMR587	120A	Office	Slab-on-Grade	Yes	12/12/2023 1:25 PM	255	12/14/2023 12:55 PM	250		0.8	D
86	SND537	120	Classroom	Slab-on-Grade	Yes	12/12/2023 1:26 PM	513	12/14/2023 12:53 PM	503		2.0	S
86	SDI952	120	Classroom	Slab-on-Grade	Yes	12/12/2023 1:26 PM	107	12/14/2023 12:54 PM	107		-0.7	B
87	SNF992	122	Classroom	Slab-on-Grade	Yes	12/12/2023 1:28 PM	293	12/14/2023 12:58 PM	287		1.0	S
88	SDG248	122A	Office	Slab-on-Grade	Yes	12/12/2023 1:30 PM	370	12/14/2023 1:00 PM	360		2.1	S
89	SND310	239	Classroom	2nd Floor	Yes	12/12/2023 9:35 AM	578	12/14/2023 10:55 AM	575		0.1	S
89	SNG813	239	Classroom	2nd Floor	Yes	12/12/2023 9:36 AM	265	12/14/2023 10:56 AM	263		-0.1	D
90	SKZ500	233	Classroom	2nd Floor	Yes	12/12/2023 9:39 AM	100	12/14/2023 10:55 AM	100		-0.7	B
90	SDQ720	233	Classroom	2nd Floor	Yes	12/12/2023 9:38 AM	376	12/14/2023 10:55 AM	371		0.7	S
91	SDW701	226	Classroom	2nd Floor	Yes	12/12/2023 9:41 AM	335	12/14/2023 10:56 AM	329		0.9	S
92	SNE503	210	Office	2nd Floor	Yes	12/12/2023 9:47 AM	491	12/14/2023 10:56 AM	487		0.4	S
93	SDQ749	205	Classroom	2nd Floor	Yes	12/12/2023 9:49 AM	179	12/14/2023 10:54 AM	173		1.1	S
94	SMT305	217	Room	2nd Floor	Yes	12/12/2023 9:52 AM	300	12/14/2023 10:54 AM	297		0.2	S
95	SDU801	125H	Office	Slab-on-Grade	Yes	12/12/2023 9:57 AM	231	12/14/2023 11:12 AM	225		1.0	S
96	SDG585	125I	Office	Slab-on-Grade	Yes	12/12/2023 9:58 AM	203	12/14/2023 11:13 AM	194		1.9	S



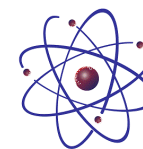
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97	SDQ745	125J	Office	Slab-on-Grade	Yes	12/12/2023 10:00 AM	411	12/14/2023 11:11 AM	407		0.4	S
98	SNE673	125K	Office	Slab-on-Grade	Yes	12/12/2023 10:01 AM	624	12/14/2023 11:13 AM	621		0.1	S
98	SDG474	125K	Office	Slab-on-Grade	Yes	12/12/2023 10:01 AM	285	12/14/2023 11:08 AM	281		0.4	D
99	SDS088	125A	Classroom	Slab-on-Grade	Yes	12/12/2023 10:02 AM	388	12/14/2023 11:11 AM	383		0.7	S
100	SNG750	125B	Classroom	Slab-on-Grade	Yes	12/12/2023 10:04 AM	362	12/14/2023 11:11 AM	357		0.7	S
101	SDU692	125C	Classroom	Slab-on-Grade	Yes	12/12/2023 10:05 AM	236	12/14/2023 11:10 AM	230		1.0	S
102	SDF857	125D	Classroom	Slab-on-Grade	Yes	12/12/2023 10:06 AM	272	12/14/2023 11:10 AM	267		0.7	S
103	SDK058	125E	Office	Slab-on-Grade	Yes	12/12/2023 10:08 AM	171	12/14/2023 11:09 AM	167		0.5	S
104	SMT206	125F	Classroom	Slab-on-Grade	Yes	12/12/2023 10:10 AM	504	12/14/2023 11:11 AM	500		0.4	S
105	SNH607	125G	Room	Slab-on-Grade	Yes	12/12/2023 10:11 AM	344	12/14/2023 11:10 AM	336		1.5	S
106	SNS123	123	Office	Slab-on-Grade	Yes	12/12/2023 10:13 AM	717	12/14/2023 11:09 AM	711		0.8	S
107	SDF868	123C	Kitchen	Slab-on-Grade	Yes	12/12/2023 10:14 AM	442	12/14/2023 11:08 AM	435		1.2	S
108	SDM395	123A	Room	Slab-on-Grade	Yes	12/12/2023 10:15 AM	302	12/14/2023 11:13 AM	299		0.2	S
109	SNS499	123B	Office	Slab-on-Grade	Yes	12/12/2023 10:17 AM	664	12/14/2023 11:12 AM	659		0.6	S
109	SDU949	123B	Office	Slab-on-Grade	Yes	12/12/2023 10:17 AM	291	12/14/2023 11:09 AM	286		0.7	D



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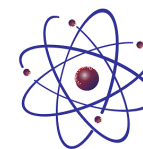


110	SND315	Library	Area	Slab-on-Grade	Yes	12/12/2023 10:18 AM	440	12/14/2023 11:08 AM	436		0.4	S
110	SDG482	Library	Area	Slab-on-Grade	Yes	12/12/2023 10:19 AM	98	12/14/2023 11:07 AM	98		-0.7	B
111	SDG068	124A	Classroom	Slab-on-Grade	Yes	12/12/2023 10:24 AM	418	12/14/2023 11:19 AM	413		0.6	S
112	SDU840	124B	Classroom	Slab-on-Grade	Yes	12/12/2023 10:26 AM	192	12/14/2023 11:19 AM	188		0.5	S
113	SDC976	124D	Classroom	Slab-on-Grade	Yes	12/12/2023 10:28 AM	556	12/14/2023 11:20 AM	552		0.4	S
114	SDW538	124F	Classroom	Slab-on-Grade	Yes	12/12/2023 10:30 AM	386	12/14/2023 11:20 AM	380		0.9	S
115	SDK896	162H	Office	Slab-on-Grade	Yes	12/12/2023 10:35 AM	204	12/14/2023 11:32 AM	201		0.2	S
116	SDH341	162I	Office	Slab-on-Grade	Yes	12/12/2023 10:37 AM	240	12/14/2023 11:32 AM	236		0.5	S
117	SDU973	162F	Office	Slab-on-Grade	Yes	12/12/2023 10:38 AM	283	12/14/2023 11:29 AM	275		1.6	S
118	SDH604	162J	Office	Slab-on-Grade	Yes	12/12/2023 10:39 AM	205	12/14/2023 11:31 AM	199		1.1	S
118	SNG100	162J	Office	Slab-on-Grade	Yes	12/12/2023 10:40 AM	506	12/14/2023 11:28 AM	499		1.1	D
119	SDG151	162K	Office	Slab-on-Grade	Yes	12/12/2023 10:41 AM	394	12/14/2023 11:26 AM	390		0.4	S
120	SMT428	162Z	Office	Slab-on-Grade	Yes	12/12/2023 10:42 AM	194	12/14/2023 11:30 AM	190		0.5	S
121	SDQ655	162L	Office	Slab-on-Grade	Yes	12/12/2023 10:43 AM	346	12/14/2023 11:28 AM	342		0.4	S
122	SDW461	162E	Office	Slab-on-Grade	Yes	12/12/2023 10:44 AM	254	12/14/2023 11:29 AM	245		1.9	S



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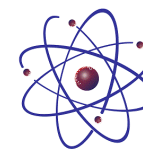


123	SNG616	162M	Office	Slab-on-Grade	Yes	12/12/2023 10:45 AM	491	12/14/2023 11:33 AM	486		0.6	S
124	SMR654	162D	Office	Slab-on-Grade	Yes	12/12/2023 10:46 AM	299	12/14/2023 11:31 AM	295		0.4	S
125	SDH359	162O	Office	Slab-on-Grade	Yes	12/12/2023 10:48 AM	323	12/14/2023 11:38 AM	318		0.7	S
126	SDL003	162	Office	Slab-on-Grade	Yes	12/12/2023 10:49 AM	449	12/14/2023 11:38 AM	446		0.1	S
127	SND491	162A	Office	Slab-on-Grade	Yes	12/12/2023 10:50 AM	418	12/14/2023 11:37 AM	413		0.7	S
128	SDG494	162B	Office	Slab-on-Grade	Yes	12/12/2023 10:51 AM	175	12/14/2023 11:38 AM	171		0.5	S
129	SDG368	162T	Office	Slab-on-Grade	Yes	12/12/2023 10:53 AM	354	12/14/2023 11:39 AM	349		0.7	S
130	SNG669	162S	Office	Slab-on-Grade	Yes	12/12/2023 10:54 AM	529	12/14/2023 11:36 AM	525		0.4	S
131	SDC859	162R	Office	Slab-on-Grade	Yes	12/12/2023 10:57 AM	418	12/14/2023 11:27 AM	410		1.4	S
131	SNG702	162R	Office	Slab-on-Grade	Yes	12/12/2023 10:57 AM	474	12/14/2023 11:26 AM	465		1.7	D
132	SMT422	161A	Office	Slab-on-Grade	Yes	12/12/2023 10:58 AM	322	12/14/2023 11:27 AM	319		0.2	S
132	SDI965	161A	Office	Slab-on-Grade	Yes	12/12/2023 10:59 AM	105	12/14/2023 11:30 AM	104		-0.3	B
133	SDG063	162G	Office	Slab-on-Grade	Yes	12/12/2023 11:01 AM	454	12/14/2023 11:27 AM	450		0.4	S
134	SNH601	161	Room	Slab-on-Grade	Yes	12/12/2023 11:03 AM	411	12/14/2023 11:45 AM	409		-0.1	S
135	SLL715	166F	Office	Slab-on-Grade	Yes	12/12/2023 11:05 AM	125	12/14/2023 11:44 AM	119		1.2	S



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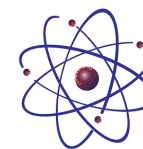


136	SND437	166C	Office	Slab-on-Grade	Yes	12/12/2023 11:06 AM	362	12/14/2023 11:44 AM	359		0.1	S
137	SDG507	166B	Office	Slab-on-Grade	Yes	12/12/2023 11:08 AM	354	12/14/2023 11:46 AM	352		-0.1	S
138	SND345	166A	Office	Slab-on-Grade	Yes	12/12/2023 11:09 AM	590	12/14/2023 11:44 AM	587		0.1	S
138	SNH668	166A	Office	Slab-on-Grade	Yes	12/12/2023 11:10 AM	464	12/14/2023 11:46 AM	461		0.1	D
139	SNI460	166	Office	Slab-on-Grade	Yes	12/12/2023 11:11 AM	315	12/14/2023 11:43 AM	309		1.0	S
140	SLL804	166D	Office	Slab-on-Grade	Yes	12/12/2023 11:12 AM	112	12/14/2023 11:44 AM	107		0.9	S
141	SMT292	164	Office	Slab-on-Grade	Yes	12/12/2023 11:13 AM	346	12/14/2023 11:45 AM	343		0.2	S
142	SDK067	166E	Office	Slab-on-Grade	Yes	12/12/2023 11:16 AM	308	12/14/2023 11:45 AM	303		0.7	S
143	SDD757	162O	Office	Slab-on-Grade	Yes	12/12/2023 11:20 AM	127	12/14/2023 11:51 AM	122		0.9	S
144	SND279	159	Area	Slab-on-Grade	Yes	12/12/2023 11:22 AM	521	12/14/2023 11:52 AM	515		0.9	S
144	SMR643	159	Area	Slab-on-Grade	Yes	12/12/2023 11:22 AM	250	12/14/2023 11:53 AM	245		0.8	D
145	SNE543	159A	Office	Slab-on-Grade	Yes	12/12/2023 11:23 AM	524	12/14/2023 11:52 AM	519		0.6	S
146	SND449	159B	Room	Slab-on-Grade	Yes	12/12/2023 11:26 AM	312	12/14/2023 11:54 AM	306		1.0	S
147	SDW423	159C	Room	Slab-on-Grade	Yes	12/12/2023 11:27 AM	326	12/14/2023 11:51 AM	320		1.0	S
148	SNG628	157	Classroom	Slab-on-Grade	Yes	12/12/2023 11:30 AM	485	12/14/2023 12:05 PM	478		1.1	S

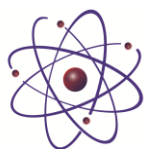


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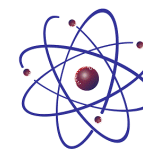
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149	SND388	160	Classroom	Slab-on-Grade	Yes	12/12/2023 11:31 AM	193	12/14/2023 12:03 PM	188		0.8	S
149	SDM768	160	Classroom	Slab-on-Grade	Yes	12/12/2023 11:32 AM	99	12/14/2023 12:04 PM	99		-0.7	B
150	SNS342	158	Classroom	Slab-on-Grade	Yes	12/12/2023 11:33 AM	717	12/14/2023 12:04 PM	711		0.8	S
151	SNE465	155	Classroom	Slab-on-Grade	Yes	12/12/2023 11:34 AM	473	12/14/2023 12:04 PM	469		0.4	S
152	SDG465	156	Classroom	Slab-on-Grade	Yes	12/12/2023 11:35 AM	368	12/14/2023 12:02 PM	362		1.0	S
153	SLL779	153	Classroom	Slab-on-Grade	Yes	12/12/2023 11:37 AM	159	12/14/2023 12:02 PM	153		1.2	S
154	SDW604	153A	Office	Slab-on-Grade	Yes	12/12/2023 11:39 AM	241	12/14/2023 12:06 PM	235		1.1	S
155	SDG161	151A	Office	Slab-on-Grade	Yes	12/12/2023 11:41 AM	266	12/14/2023 12:03 PM	263		0.2	S
156	SDQ657	151	Classroom	Slab-on-Grade	Yes	12/12/2023 11:42 AM	352	12/14/2023 12:01 PM	346		1.0	S
157	SDW475	150	Classroom	Slab-on-Grade	Yes	12/12/2023 11:43 AM	258	12/14/2023 12:13 PM	252		1.0	S
158	SDW209	154	Classroom	Slab-on-Grade	Yes	12/12/2023 11:45 AM	405	12/14/2023 12:12 PM	400		0.7	S
158	SDW426	154	Classroom	Slab-on-Grade	Yes	12/12/2023 11:45 AM	358	12/14/2023 12:13 PM	353		0.7	D
159	SDW485	152	Classroom	Slab-on-Grade	Yes	12/12/2023 11:47 AM	388	12/14/2023 12:12 PM	383		0.7	S
160	SDW438	130B	Office	Slab-on-Grade	Yes	12/12/2023 11:48 AM	252	12/14/2023 12:12 PM	249		0.2	S
161	SDG178	130A	Office	Slab-on-Grade	Yes	12/12/2023 11:49 AM	404	12/14/2023 12:14 PM	398		0.9	S



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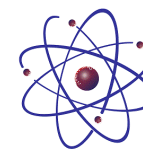


162	SDW760	132B	Office	Slab-on-Grade	Yes	12/12/2023 11:50 AM	279	12/14/2023 12:11 PM	274		0.7	S
163	SDU871	132	Classroom	Slab-on-Grade	Yes	12/12/2023 11:52 AM	394	12/14/2023 12:11 PM	388		0.9	S
164	SDG450	131	Classroom	Slab-on-Grade	Yes	12/12/2023 11:55 AM	343	12/14/2023 12:13 PM	337		1.0	S
165	SDF829	129	Classroom	Slab-on-Grade	Yes	12/12/2023 11:56 AM	242	12/14/2023 12:19 PM	237		0.8	S
166	SDH591	130	Classroom	Slab-on-Grade	Yes	12/12/2023 11:58 AM	453	12/14/2023 12:18 PM	446		1.2	S
167	SNG141	128	Classroom	Slab-on-Grade	Yes	12/12/2023 12:00 PM	423	12/14/2023 12:19 PM	417		0.9	S
168	SDG584	127	Classroom	Slab-on-Grade	Yes	12/12/2023 12:02 PM	243	12/14/2023 12:18 PM	237		1.1	S
168	SDG188	127	Classroom	Slab-on-Grade	Yes	12/12/2023 12:02 PM	206	12/14/2023 12:18 PM	200		1.1	D
169	SNH558	Cafeteria	Room	Slab-on-Grade	Yes	12/12/2023 12:12 PM	433	12/14/2023 12:31 PM	427		0.9	S
170	SDW789	Cafeteria	Room	Slab-on-Grade	Yes	12/12/2023 12:13 PM	383	12/14/2023 12:34 PM	377		0.9	S
171	SDW521	Serving Lanes	Room	Slab-on-Grade	Yes	12/12/2023 12:14 PM	248	12/14/2023 12:29 PM	243		0.8	S
172	SNI503	Kitchen	Kitchen	Slab-on-Grade	Yes	12/12/2023 12:15 PM	186	12/14/2023 12:30 PM	180		1.1	S
173	SDH406	Serving Lanes Storage	Storage	Slab-on-Grade	Yes	12/12/2023 12:19 PM	429	12/14/2023 12:30 PM	424		0.7	S
174	SMR679	Faculty Lounge	Room	Slab-on-Grade	Yes	12/12/2023 12:19 PM	323	12/14/2023 12:31 PM	319		0.4	S
175	SND457	Kitchen Office	Office	Slab-on-Grade	Yes	12/12/2023 12:22 PM	412	12/14/2023 12:31 PM	398		3.1	S

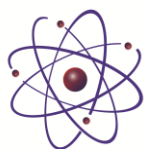


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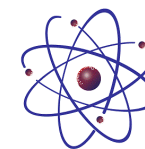


176	SDW191	Kitchen Storage	Storage	Slab-on-Grade	Yes	12/12/2023 12:22 PM	129	12/14/2023 12:29 PM	123		1.2	S
177	SMT287	165A	Area	Slab-on-Grade	Yes	12/12/2023 12:25 PM	156	12/14/2023 12:30 PM	151		0.9	S
178	SND485	148A	Classroom	Slab-on-Grade	Yes	12/12/2023 12:29 PM	466	12/14/2023 12:47 PM	460		0.9	S
179	SND519	149A	Classroom	Slab-on-Grade	Yes	12/12/2023 12:31 PM	283	12/14/2023 12:45 PM	280		0.2	S
179	SDM759	149A	Classroom	Slab-on-Grade	Yes	12/12/2023 12:31 PM	99	12/14/2023 12:47 PM	99		-0.7	B
180	SDF844	148	Classroom	Slab-on-Grade	Yes	12/12/2023 12:34 PM	348	12/14/2023 12:46 PM	344		0.4	D
180	SNG089	148	Classroom	Slab-on-Grade	Yes	12/12/2023 12:33 PM	457	12/14/2023 12:45 PM	451		0.9	S
181	SNH732	146	Classroom	Slab-on-Grade	Yes	12/12/2023 12:36 PM	498	12/14/2023 12:44 PM	493		0.6	S
182	SDQ683	146 Office	Office	Slab-on-Grade	Yes	12/12/2023 12:37 PM	482	12/14/2023 12:45 PM	478		0.4	S
183	SDH405	136	Classroom	Slab-on-Grade	Yes	12/12/2023 12:39 PM	155	12/14/2023 12:45 PM	149		1.2	S
184	SND501	138	Classroom	Slab-on-Grade	Yes	12/12/2023 12:41 PM	469	12/14/2023 12:44 PM	462		1.2	S
185	SDK117	148B	Room	Slab-on-Grade	Yes	12/12/2023 12:42 PM	202	12/14/2023 12:44 PM	195		1.4	S
186	SNE630	135C	Classroom	Slab-on-Grade	Yes	12/12/2023 12:45 PM	522	12/14/2023 12:53 PM	517		0.6	S
187	SDW499	135D	Room	Slab-on-Grade	Yes	12/12/2023 12:47 PM	266	12/14/2023 12:55 PM	260		1.0	S
188	SDK190	131A	Office	Slab-on-Grade	Yes	12/12/2023 12:49 PM	212	12/14/2023 12:58 PM	207		0.8	S



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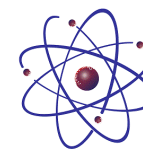
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189	SDK937	131B	Office	Slab-on-Grade	Yes	12/12/2023 12:50 PM	134	12/14/2023 12:58 PM	129		0.9	S
190	SDW481	133A	Classroom	Slab-on-Grade	Yes	12/12/2023 12:52 PM	285	12/14/2023 1:01 PM	280		0.7	S
190	SND557	133A	Classroom	Slab-on-Grade	Yes	12/12/2023 12:53 PM	530	12/14/2023 1:01 PM	524		0.9	D
191	SLL656	133B	Office	Slab-on-Grade	Yes	12/12/2023 12:54 PM	269	12/14/2023 1:02 PM	265		0.5	S
192	SND307	133C	Classroom	Slab-on-Grade	Yes	12/12/2023 12:56 PM	407	12/14/2023 1:00 PM	393		3.1	S
193	SDG478	133D	Office	Slab-on-Grade	Yes	12/12/2023 12:57 PM	127	12/15/2023 12:44 PM	127	Missing		S
194	SDW596	135A	Classroom	Slab-on-Grade	Yes	12/12/2023 1:00 PM	294	12/14/2023 1:25 PM	288		1.0	S
195	SNH479	135B	Office	Slab-on-Grade	Yes	12/12/2023 1:01 PM	521	12/14/2023 1:25 PM	519		-0.1	S
196	SDU900	149 Storage	Storage	Slab-on-Grade	Yes	12/12/2023 1:07 PM	160	12/14/2023 1:22 PM	154		1.2	S
197	SDW309	149B	Office	Slab-on-Grade	Yes	12/12/2023 1:08 PM	273	12/14/2023 1:25 PM	266		1.3	S
197	SLI377	149B	Office	Slab-on-Grade	Yes	12/12/2023 1:09 PM	108	12/14/2023 1:33 PM	108		-0.7	B
198	SDQ715	149	Area	Slab-on-Grade	Yes	12/12/2023 1:10 PM	269	12/14/2023 1:33 PM	264		0.7	S
199	SNH639	Boiler Room	Room	Slab-on-Grade	Yes	12/12/2023 1:12 PM	424	12/14/2023 1:32 PM	419		0.7	D
199	SDF665	Boiler Room	Room	Slab-on-Grade	Yes	12/12/2023 1:12 PM	439	12/14/2023 1:31 PM	434		0.7	S
200	SLI592	137	Classroom	Slab-on-Grade	Yes	12/12/2023 1:16 PM	136	12/14/2023 12:53 PM	131		0.9	S



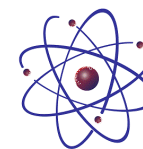
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201	SND431	139	Classroom	Slab-on-Grade	Yes	12/12/2023 1:18 PM	372	12/14/2023 1:30 PM	367		0.7	S
202	SNH673	139 Office	Office	Slab-on-Grade	Yes	12/12/2023 1:20 PM	518	12/14/2023 1:30 PM	512		0.9	S
203	SMT315	140	Classroom	Slab-on-Grade	Yes	12/12/2023 1:23 PM	276	12/14/2023 1:23 PM	270		1.0	S
204	SMT169	141	Office	Slab-on-Grade	Yes	12/12/2023 1:25 PM	275	12/14/2023 1:30 PM	269		1.0	S
205	SDQ640	141B	Storage	Slab-on-Grade	Yes	12/12/2023 1:26 PM	352	12/14/2023 1:26 PM	346		1.0	S
206	SNG744	141A	Storage	Slab-on-Grade	Yes	12/12/2023 1:28 PM	455	12/14/2023 1:28 PM	450		0.7	S
207	SMR567	142	Classroom	Slab-on-Grade	Yes	12/12/2023 1:29 PM	260	12/14/2023 1:28 PM	254		1.0	S
207	SDD992	142	Classroom	Slab-on-Grade	Yes	12/12/2023 1:30 PM	201	12/14/2023 1:27 PM	194		1.4	D
208	SDQ625	142A	Classroom	Slab-on-Grade	Yes	12/12/2023 1:32 PM	257	12/14/2023 1:27 PM	251		1.1	S
209	SDU902	142B	Office	Slab-on-Grade	Yes	12/12/2023 1:32 PM	201	12/14/2023 1:27 PM	192		2.0	S
210	SLL796	143	Classroom	Slab-on-Grade	Yes	12/12/2023 1:35 PM	112	12/14/2023 1:29 PM	108		0.6	S
211	SDK084	Wood Shop	Classroom	Slab-on-Grade	Yes	12/12/2023 1:38 PM	409	12/14/2023 1:27 PM	404		0.7	S
212	SND558	Auto Shop	Classroom	Slab-on-Grade	Yes	12/12/2023 1:38 PM	563	12/14/2023 1:29 PM	558		0.6	S
213	SDQ651	138B	Room	Slab-on-Grade	Yes	12/12/2023 1:40 PM	371	12/14/2023 1:31 PM	365		1.0	S
214	SNG816	144B	Storage	Slab-on-Grade	Yes	12/12/2023 1:42 PM	470	12/14/2023 1:32 PM	466		0.4	S



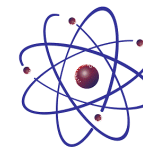
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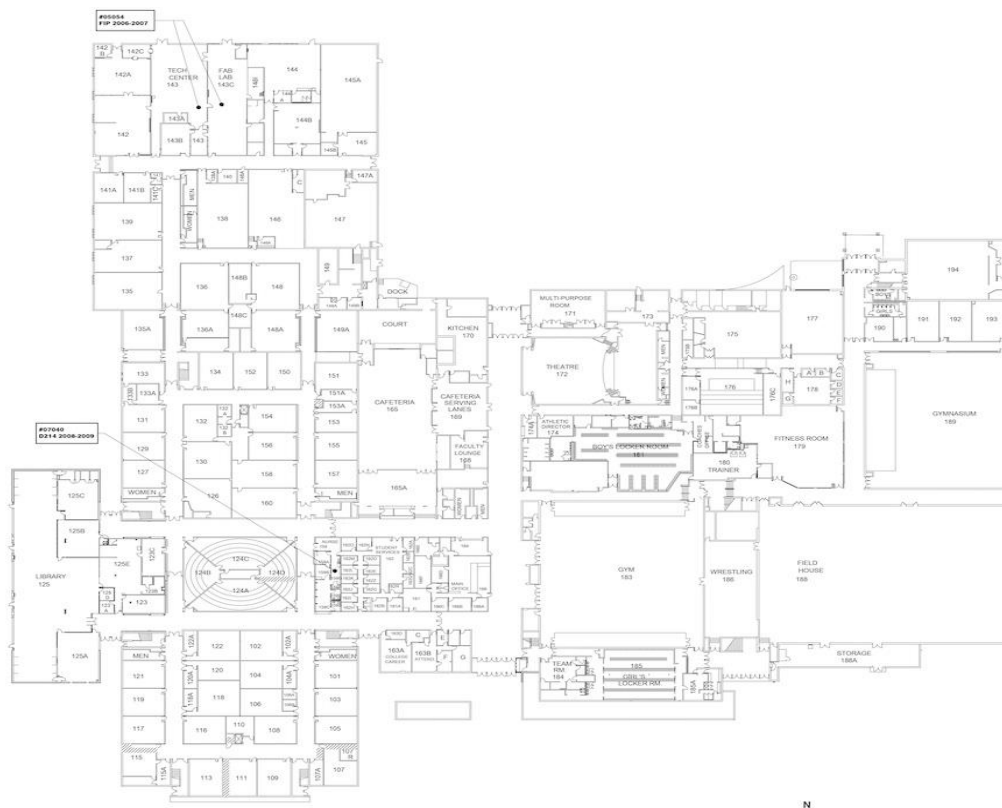
215	SMR681	145	Classroom	Slab-on-Grade	Yes	12/12/2023 1:43 PM	373	12/15/2023 12:40 PM	361		1.5	S
216	SDL020	145A	Classroom	Slab-on-Grade	Yes	12/12/2023 1:45 PM	353	12/14/2023 1:29 PM	348		0.7	S
216	SDQ615	145A	Classroom	Slab-on-Grade	Yes	12/12/2023 1:45 PM	147	12/14/2023 1:31 PM	147		-0.7	B
217	SDW555	145B	Office	Slab-on-Grade	Yes	12/12/2023 1:46 PM	420	12/14/2023 1:32 PM	411		1.7	S
218	SND507	144	Classroom	Slab-on-Grade	Yes	12/12/2023 1:48 PM	342	12/14/2023 1:31 PM	336		1.0	S
219	SNG679	144A	Office	Slab-on-Grade	Yes	12/12/2023 1:48 PM	134	12/14/2023 1:33 PM	130		0.6	S
219	SNG615	144A	Office	Slab-on-Grade	Yes	12/12/2023 1:49 PM	437	12/14/2023 1:28 PM	432		0.7	D



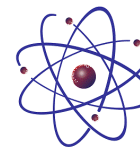
Facility Name: John Hersey High School
Test Site: 1900 E Thomas Street
Arlington Heights, IL 60004
Test Dates: Tuesday, December 12, 2023 to Thursday, December 14, 2023



Appendix B1: Site Plan Showing Device Locations



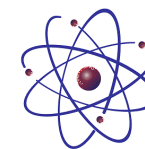
Facility Name: John Hersey High School
Test Site: 1900 E Thomas Street
Arlington Heights, IL 60004
Test Dates: Tuesday, December 12, 2023 to Thursday, December 14, 2023



Appendix B2: Site Plan Showing Device Locations



Facility Name: John Hersey High School
Test Site: 1900 E Thomas Street
Arlington Heights, IL 60004
Test Dates: Tuesday, December 12, 2023 to Thursday, December 14, 2023



Appendix C: License and Credentials



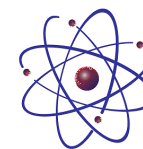
IEMA: Radon Measurement Professional
RNI2006204



NRPP: Radon Measurement Professional with Standard
and Analytical Services
NRPP ID 108034-RMP



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630-325-4443



Facility Name: John Hersey High School
Test Site: 1900 E Thomas Street
Arlington Heights, IL 60004
Test Dates: Tuesday, December 12, 2023 to Thursday, December 14, 2023



NRSB: Accredited Radon Laboratory NRSB ARL1301



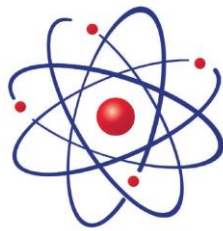
NRSB: Radon Measurement Specialist NRSB 13SS016



AARST-NRPP: Advanced Certification: Multifamily Measurement



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630-325-4443



**RADON
DETECTION
SPECIALISTS**

**RADON TEST REPORT
FOLLOW-UP MEASUREMENT**

FACILITY NAME: JOHN HERSEY HIGH SCHOOL

Test Site: 1900 E Thomas Street
Arlington Heights, IL 60004

Report Date: January 19, 2024



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Westmont, IL 60559
630-325-4443

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Report Prepared By: Kirsten Schmidt, NRPP018034RMP,
NRSB1355016, RNI2006214
kirstens@radondetection.net

Facility Name: John Hersey High School
Test Site: 1900 E Thomas Street
Arlington Heights, IL 60004
Test Dates: Tuesday, January 16, 2024 to Friday, January 19, 2024

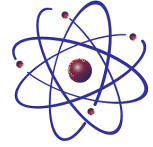
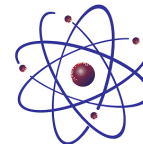


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Facility Name: John Hersey High School
Test Site: 1900 E Thomas Street
Arlington Heights, IL 60004
Test Dates: Tuesday, January 16, 2024 to Friday, January 19, 2024



Section 1.0 Radon Health Effects

Radon is recognized by the Environmental Protection Agency as well as the scientific and medical communities as a Class A carcinogen, accounting for 15,000 – 22,000 lung cancer deaths annually. Exposure to radon gas is the leading cause of lung cancer among non-smokers.

Radon is a naturally occurring, radioactive gas which comes from the soil. It can't be seen, smelled or tasted. The only way to know if the level of radon gas in your building exceeds the recommended Action Level of 4.0 pCi/L is to test. The Department of Nuclear Safety in Illinois requires those testing for radon in commercial buildings, schools and multi-family housing communities, as well as individual residences, to be properly licensed.

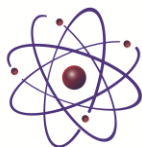
The amount of radon in the soil depends on soil chemistry, which naturally varies. Radon levels in the soil can range from a few hundred to several thousands of pCi/L (pico Curies per liter of air). The amount of radon that escapes from the soil and enters the building depends on the weather, soil porosity, soil moisture, and the suction within the building.

Radon is the leading cause of lung cancer among non-smokers.

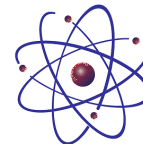
- There is no safe level of radon exposure. Any exposure causes some risk of developing cancer. The National Academy of Sciences (NAS) concluded that only cigarette smoking poses a greater risk. Exposure to radon accounts for 10% of all lung cancer deaths annually.
- As we breathe, the alpha radiation from radon and its decay products cause damage to the sensitive lung tissue. Most of the radiation dose is not actually from radon itself, but rather from radon's chain of short-lived decay products that are inhaled and lodge in the airways of the lungs. These radionuclides decay quickly, producing other radionuclides that continue damaging the lung tissue. Those particles that are retained long enough release radiation and damage the surrounding lung tissue. It is this damage that can lead to lung cancer.

What other health risks are related to radon exposure?

- No other respiratory ailments are linked to radon exposure.
- There are preliminary studies that are looking at the link between radon exposure and the development of Parkinson's and Alzheimer's disease. These are early studies, and research is on-going.



Facility Name: John Hersey High School
Test Site: 1900 E Thomas Street
Arlington Heights, IL 60004
Test Dates: Tuesday, January 16, 2024 to Friday, January 19, 2024



Section 2.0 Radon Testing Protocol for This Site

Pre-Deployment Testing Strategy

Measurements will be conducted in 4 locations which previously demonstrated either invalid or missing measurements during the initial measurement from December 12, 2023 to December 14, 2023.

Materials and Methods

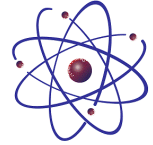
RDS will use electret ionization chambers to measure radon levels in the air in the above referenced property. The test will comply with all protocols set forth by IEMA and ANSI/AARST, as well as the RDS Quality Assurance Plan.

Duplicate measurements will be conducted for not less than 10% of the total single devices placed to measure precision. Field blanks will be deployed for not less than 5% of the total number of single measurements deployed to measure background gamma radiation. Spike tests are conducted monthly at an independent lab, at a minimum of 3% for the total number of devices deployed (annually) or at a rate of 6 spikes per calendar month, to measure accuracy. The initial voltage reading will take place not more than 24 hours prior to deployment and the final voltage of the devices will be determined within 24 hours of retrieval.

RDS will locate devices in such a way to limit unintentional interference from building occupants. A walk-through inspection of the building will allow RDS to document observations regarding radon entry mechanisms and general building pressure gradients. Measurement results will be reported in picoCuries per liter (pCi/L) of air.



Facility Name: John Hersey High School
Test Site: 1900 E Thomas Street
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Test Dates: Tuesday, January 16, 2024 to Friday, January 19, 2024



Section 3.0 Scope of Work Performed

Radon Detection Specialists performed a Follow-Up Measurement in 4 locations at John Hersey High School, located at 1900 E Thomas Street, in Arlington Heights, Illinois.

This scope of work included a 3-day (short-term) radon test. This measurement was conducted from Tuesday, January 16, 2024 to Friday, January 19, 2024.

The testing was conducted in accordance with the Illinois Emergency Management Agency Department of Nuclear Safety (IEMA) and the United States Environmental Protection Agency testing protocols for commercial radon measurements, ANSI/AARST standards, the device manufacturer's recommendations, and the RDS Quality Assurance Plan.

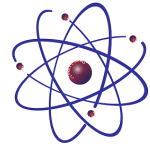
The devices used at this facility were electret ionization chambers (Eperms™) manufactured by RadElec, Inc.

A total of 9 devices were deployed at this site in these configurations:

Measurement Type	Number of Devices
Single	4
Duplicate	4
Blank	1



Facility Name: John Hersey High School
Test Site: 1900 E Thomas Street
Arlington Heights, IL 60004
Test Dates: Tuesday, January 16, 2024 to Friday, January 19, 2024



Section 4.0 Site Conditions and Device Placement

Site Conditions

1. The subject building was occupied and fully-functional during this radon measurement.
2. The testing period was noted to have been unremarkable in terms of changes/repairs to the building functionality and the weather.
3. At device deployment, it was discovered that the previously tested location labeled “244 Area” should have been labeled “230 Area.”
4. At device retrieval, one of the testing devices deployed in the 179 South Wall location was noted to have been prematurely closed. The results for this device are invalid. The results for the other device deployed in this location, however, remains valid.

Device Locations

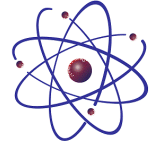
If an appropriate and accurate drawing is provided by the client and dimensional device plotting is possible, Appendix B provides a detailed drawing showing the device locations. If Appendix B is blank, please refer to the Device Placement columns provided in Appendix A (Room Use and Room Number) as an explanation of device locations.

The building was tested in accordance with IEMA and ANSI/AARST protocols with regard to device placement and analytical methods of calculating results.

1. Tampering was not detected at the time the devices were retrieved, unless noted in the Comment Column.
2. Devices were placed strategically to reduce accidental interference by building occupants.
3. Duplicates are averaged together. It is the average of the two devices upon which Follow-Up Testing and mitigation decisions should be based.



Facility Name: John Hersey High School
Test Site: 1900 E Thomas Street
Arlington Heights, IL 60004
Test Dates: Tuesday, January 16, 2024 to Friday, January 19, 2024



Section 5.0 Test Location Results and Recommendations

Test Location Results Table

The table below lists the radon test results by location in the facility.

Because radon levels fluctuate hourly, daily, weekly, seasonally and yearly, these results should not be used to estimate radon levels of rooms that were not measured, or to estimate future radon levels of rooms that were measured.

Changes to the building components (both structural and mechanical) can affect radon concentrations.

The EPA Action Level is 4.0 picoCuries per Liter (pCi/L).

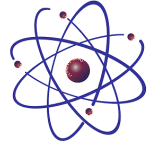
Location #	Room Name/Number	Description	Results (pCi/L)
1	133D	Storage	0.7
2	230 / 244	Area	1.0
3	179 South Wall	Classroom	0.5
4	188 West Wall	Classroom	1.0

All of the regularly occupiable locations had average readings below the Action Level of 4.0 pCi/L. No additional testing is recommended at this time.

Because different ventilation systems and varying seasonal pressures can influence radon levels, it is the recommendation of this testing professional to perform another short-term test in two years, in an alternating season, to establish an alternate seasonal baseline.



Facility Name: John Hersey High School
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Arlington Heights, IL 60004
Test Dates: Tuesday, January 16, 2024 to Friday, January 19, 2024



A Note about Long-Term Testing

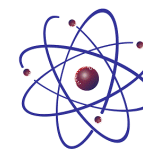
The EPA and IEMA Action Level of 4.0 pCi/L is based on annual average exposure. As a matter of best practice in measurement, a long-term measurement is the best way to determine occupants' annual exposure because radon levels vary hourly, daily, weekly, seasonally, and over the years. Long-term testing (lasting 90 days to one year) provides a better understanding of building radon concentrations and the risks of exposure to radon.

To have a thorough understanding of occupants' risk of exposure, a long-term measurement is always recommended. This type of measurement will provide the best indication of radon concentrations and are the basis upon which mitigation decisions should be made.

Should you choose to engage in a long-term measurement as recommended, please contact us for further details.



Facility Name: John Hersey High School
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Appendix A: Device Table

The table below lists all the devices deployed and their reported radon levels. The results were determined using calculations supplied by the device manufacturer.

Location #	Serial Number	Room Name/Number	Room Description	Foundation	Occupiable?	Start Day/Time	V1	End Day/Time	V2	Invalid or Missing?	Device Radon Level (pCi/L)	Set Type
1	SNE569	133D	Storage	Slab-on-Grade	Yes	1/16/2024 1:12 PM	555	1/19/2024 12:45 PM	547		0.7	S
1	SDG461	133D	Storage	Slab-on-Grade	Yes	1/16/2024 1:12 PM	214	1/19/2024 12:47 PM	207		0.7	D
2	SND417	230 / 244	Area	2nd Floor	Yes	1/16/2024 1:20 PM	463	1/19/2024 12:46 PM	455		0.8	S
2	SNG658	230 / 244	Area	2nd Floor	Yes	1/16/2024 1:21 PM	473	1/19/2024 12:42 PM	463		1.1	D
3	SDK190	179 South Wall	Classroom	Slab-on-Grade	Yes	1/16/2024 1:25 PM	161	1/19/2024 12:42 PM	157	Invalid		S
3	SDF914	179 South Wall	Classroom	Slab-on-Grade	Yes	1/16/2024 1:26 PM	233	1/19/2024 12:44 PM	227		0.5	D
3	SDG060	179 South Wall	Classroom	Slab-on-Grade	Yes	1/16/2024 1:26 PM	395	1/19/2024 12:43 PM	395		-0.7	B
4	SDM761	188 West Wall	Classroom	Slab-on-Grade	Yes	1/16/2024 1:28 PM	106	1/19/2024 12:44 PM	98		1.1	S
4	SNE730	188 West Wall	Classroom	Slab-on-Grade	Yes	1/16/2024 1:29 PM	600	1/19/2024 12:45 PM	591		0.9	D



A stylized illustration of an atom. It features a central nucleus composed of red and white spheres. Three blue elliptical orbits surround the nucleus, with small red spheres representing electrons positioned at various points along these orbits.

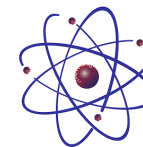


Appendix B



Radon Detection Specialists, Inc.
825 N Cass Avenue. • Suite 310
Westmont, IL 60559
630-325-4443

Facility Name: John Hersey High School
Test Site: 1900 E Thomas Street
Arlington Heights, IL 60004
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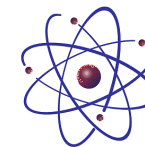


Appendix B2: Site Plan Showing Device Locations



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Facility Name: John Hersey High School
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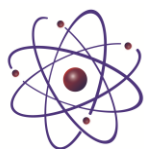
Appendix C: License and Credentials



IEMA: Radon Measurement Professional
RNI2006204

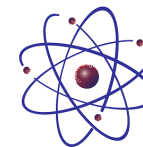


NRPP: Radon Measurement Professional with Standard
and Analytical Services
NRPP ID 108034-RMP



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NRSB: Accredited Radon Laboratory NRSB ARL1301



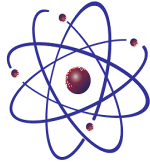
NRSB: Radon Measurement Specialist NRSB 13SS016



AARST-NRPP: Advanced Certification: Multifamily Measurement



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Radon Test Certificate of Completion

Prepared for: Ramboll

Facility Name: Happy Huskies John Hersey High School

Test Site: 1900 E Thomas Street

Arlington Heights, IL 60004

Test Date: Tuesday, December 12, 2023 to Thursday, December 14, 2023

Every parent or guardian is notified that this facility has performed radon measurements to ensure the health and safety of the occupants. The Illinois Emergency Management Agency (IEMA) recommends that all residential homes be tested and that corrective actions be taken at levels equal to or greater than 4.0 pCi/L. Radon is a Class A human carcinogen, the leading cause of lung cancer in non-smokers, and the second leading cause of lung cancer overall. For additional information about this facility, contact the licensee, and for additional information regarding radon contact the IEMA Radon Program at 800-325-1245 or on the internet at www.radon.illinois.gov.

Expiration Date: December 12, 2026

Kirsten Schmidt
Measurement Professional
IL License RNI2006204

