



Date: 12/1/21

Performed by: Andrew Tinklenberg

Location: Howe School – 3733 43rd Avenue South, Minneapolis, MN 55406

RE: Radon Testing

INTRODUCTION

From November 16 – 18, 2021, radon testing was performed within Howe School located at 3733 43rd Avenue South in Minneapolis, MN. The testing was performed to ensure that radon gas concentrations within the building are below the established regulatory limits. Testing was conducted under normal occupied building conditions in frequently-occupied ground contact rooms and other areas in accordance with ANSI/AARST Protocols for Conducting Measurements of Radon and Radon Decay Products in Schools and Large Buildings 2014 with 1/21 Revisions and Minnesota Department of Health (MDH) guidelines.

SUMMARY OF FINDINGS

Of the 16 areas that were tested, 15 were found to have radon gas levels below 4.0 pCi/L, which is the EPA and MDH action level. (Note: Spike sampling is performed in conjunction with this testing, Duplicate (side-by-side) sampling was conducted in select areas at a rate of 10% of areas tested, and Room “A” was the blank sample.)

The lower level custodial office was found to have radon gas levels just above 4.0 picocuries per liter of air (pCi/L). When radon is detected above this level, the EPA and MDH recommend follow-up testing in the area. From November 29 – December 1, 2021, follow-up testing was performed in the area using a Sun Nuclear Model 1030 continuous radon monitor (CRM). CRMs are recommended for follow-up testing because they give hour-by-hour results instead of just an overall average of the radon concentration during the test period. This can be helpful in assuring that radon gas concentrations in an area are below 4.0 pCi/L during occupied times. The results of the CRM follow-up testing found the overall average radon gas concentration for the entire 48-hour testing period to be 3.3 pCi/L, and the average radon gas concentration during the rooms occupied hours which are from approximately 5:00 AM – 6:30 PM Monday – Friday to be 2.4 pCi/L, both of which are below 4.0 pCi/L.

REMARKS

The radon test kits were submitted to and analyzed by AirChek, Inc., 1936 Butler Bridge Rd, Mills River, NC 28759 (MN License #RL-00003). The Sun Nuclear 1030 CRM was manufacturer calibrated on October 2, 2021 and passed NRPP Device Performance Testing (DPT) on 6/29/20. Please refer to the attached AirChek radon testing report, CRM testing report and sample diagrams for further information concerning the radon testing, areas that were tested, and the radon levels that were found to be present. Per MDH requirements, this information will be shared with the local regulatory agency (MDH - health.indoorair@state.mn.us, Phone # 651-201-4601) and incorporated in an MPS' board meeting. The information will also be posted on the EH&S webpage available through the main MPS website and maintained on file by EH&S.

Every effort was made to maintain closed building conditions and HVAC systems are monitored and controlled remotely by MPS Direct Digital Control (DDC) personnel. Any deviation in building conditions or sampling protocol which could have an impact on the testing and test results is described in the summary above. If any unoccupied areas that were not tested are planned for future occupancy, contact EH&S so that the areas can be tested. Unless specified, all QA/QC measurements were within the required limits. Radon testing is to be performed in MPS District buildings every 5 years or any time major renovation activities take place which have the potential to impact the building's foundation or HVAC systems. Refer to the attached test condition summary and ANSI/AARST advisories for additional information concerning the radon testing.

If you have any questions regarding this information, please feel free to contact me. Thank you,



Andrew Tinklenberg
MDH RMEA-00426
NRPP ID# 111389 RT



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Minneapolis Public Schools
Environmental Health & Safety - Facilities Dept.
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andrew.tinklenberg@mpls.k12.mn.us
612-668-0306 Phone
612-668-0310 EH & S General Office
612-668-0275 Fax



Attachments

Radon Testing Results
Floor Plans with Sample Locations
Notification Documents
Test Condition Summary
ANSI/AARST Advisory Statements

I5554 / ANDREW TINKLENBERG / MINNEAPOLIS PUBLIC SCHOOLS

Kit Number	Start Date	Start Time	End Date	End Time	Temp.	Facility	Building	Room	Project ID	Floor	Result
11034928	2021-11-16	7:00 am	2021-11-18	2:00 pm	70	MPS HOWE	HOWE	CUSTODIAN OFFICE B1	HOWE	0	4.0
11034929	2021-11-16	7:00 am	2021-11-18	2:00 pm	70	MPS HOWE	HOWE	CUSTODIAN OFFICE B1	HOWE	0	4.3
11034930	2021-11-16	7:00 am	2021-11-18	2:00 pm	70	MPS HOWE	HOWE	CLASS 110	HOWE	1	0.9
11034931	2021-11-16	7:00 am	2021-11-18	2:00 pm	70	MPS HOWE	HOWE	STAFF LOUNGE 106	HOWE	1	1.0
11034932	2021-11-16	7:00 am	2021-11-18	2:00 pm	70	MPS HOWE	HOWE	OFFICE 106A	HOWE	1	0.8
11034933	2021-11-16	7:00 am	2021-11-18	2:00 pm	70	MPS HOWE	HOWE	CLASS 108	HOWE	1	1.1
11034934	2021-11-16	7:00 am	2021-11-18	2:00 pm	70	MPS HOWE	HOWE	CLASS 104	HOWE	1	1.0
11034935	2021-11-16	7:00 am	2021-11-18	2:00 pm	70	MPS HOWE	HOWE	CLASS 102	HOWE	1	1.4
11034936	2021-11-16	7:00 am	2021-11-18	2:00 pm	70	MPS HOWE	HOWE	GYM 114	HOWE	1	0.6
11034937	2021-11-16	7:00 am	2021-11-18	2:00 pm	70	MPS HOWE	HOWE	CLASS 109	HOWE	1	< 0.3
11034938	2021-11-16	7:00 am	2021-11-18	2:00 pm	70	MPS HOWE	HOWE	MEDIA 103	HOWE	1	1.0
11034939	2021-11-16	8:00 am	2021-11-18	2:00 pm	70	MPS HOWE	HOWE	HEALTH OFFICE 120	HOWE	1	1.5
11034940	2021-11-16	8:00 am	2021-11-18	2:00 pm	70	MPS HOWE	HOWE	MAIN OFFICE 119	HOWE	1	1.9
11034941	2021-11-16	8:00 am	2021-11-18	2:00 pm	70	MPS HOWE	HOWE	OFFICE 119B	HOWE	1	1.0
11034942	2021-11-16	8:00 am	2021-11-18	2:00 pm	70	MPS HOWE	HOWE	LUNCHROOM 101	HOWE	1	0.6
11034943	2021-11-16	8:00 am	2021-11-18	2:00 pm	70	MPS HOWE	HOWE	LUNCHROOM 101	HOWE	1	0.8
11034944	2021-11-16	8:00 am	2021-11-18	2:00 pm	70	MPS HOWE	HOWE	CLASS 203	HOWE	2	< 0.3
11034945	2021-11-16	8:00 am	2021-11-18	2:00 pm	70	MPS HOWE	HOWE	CLASS 214	HOWE	2	< 0.3
11034946	2021-11-16	8:00 am	2021-11-18	2:00 pm	70	MPS HOWE	HOWE	ROOM A	HOWE	2	< 0.3



Radon Inspection Report

Test Location:

Howe - Custodian Office
3733 43rd Avenue South
Minneapolis, MN 55406

Test For:

Type: Follow Up

Inspected By:

Andrew Tinklenberg
1225 N. 7th Street
Minneapolis, MN 55411

Bldg. Type: Educational

Test Result: Pass

Overall Average:

3.2 pCi/l

EPA Average:

3.3 pCi/l

Test Device Details:

Serial Number: 246216011
Model Number: 1030
Last Calibration: 10/02/2021
Next Calibration: 10/02/2022
Cal-Factors: 2.35,2.25,2.57,2.24,2.29,2.29
Motion Error: Yes

Test Site Condition:

Condition: Clear and Dry
Wind: West 11-15mph
Structure Type: Slab on Grade/Crawlspace
Year Built: 1927
Sq Ft: 36161

Test Summary:

<u>CRM Location:</u>	<u>Start:</u>	<u>Stop:</u>	<u>Interval:</u>	<u>Duration:</u>
Custodian Office	11/29/2021 10:19 AM	12/01/2021 10:19 AM	1 hr	48 hr

*First 4 hrs of data excluded	<u>Min:</u>	<u>Max:</u>	<u>Average:</u>	<u>Measurement Units:</u>
Radon Concentration:	0.9	8.1	3.3	pCi/l
Temperature	63.1	64.4	63.7	F
Humidity	29	35	31	%
Pressure	29.12	29.53	29.32	inHg

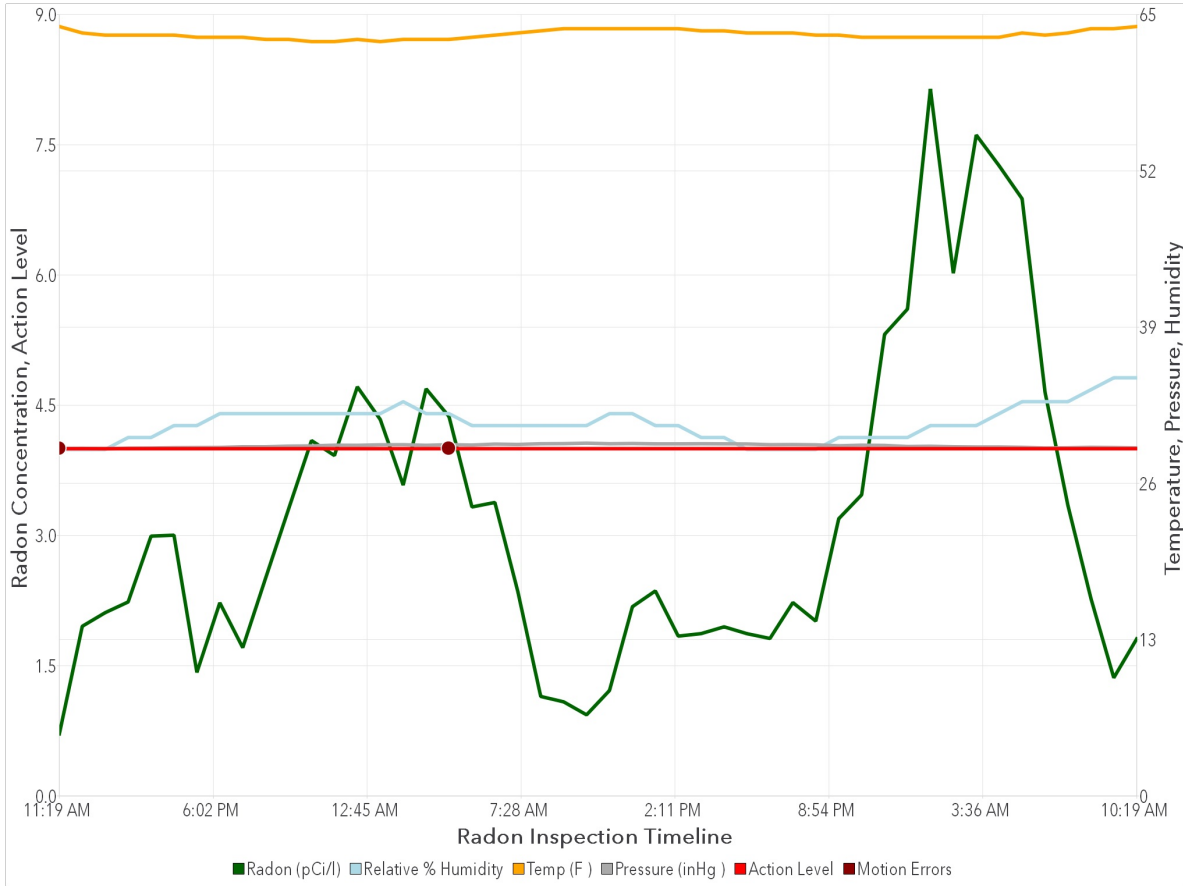
Comments:

Lic/Cert Signature

Inspection Report Date: 12/01/2021



Radon Inspection Chart



Test Result: Pass

Test Location: 3733 43rd Avenue South Minneapolis, MN 55406

Inspection Report Date: 12/01/2021



Test Checklist

- The location of the detector was selected so the detector was not to be disturbed during testing.
- The monitor was not placed in an area of high humidity such as: Kitchen, laundry room, cellar, spa room, garage, crawl space or sump area.
- The detector was not located near drafts caused by HVAC vents, windows and doors.
- The detector was not placed near areas of excessive heat, such as a fireplace or in direct sunlight.
- The detector was placed within the breathing zone of at least 20 inches to 6 feet above the floor and at least 1 foot below the ceiling if suspended.
- The detector was not placed within 1 foot of outside walls of the home or within 3 feet of any windows or doors to the exterior of the home.
- Ceiling fans, portable dehumidifiers, portable humidifiers, portable air filters, and all window air conditioners are not operated within 20 feet of the detector.

Test Result: Pass

Test Location: 3733 43rd Avenue South Minneapolis, MN 55406

Inspection Report Date: 12/01/2021



Test Table

* Data from first 4 hours excluded from EPA calculations

Date/Time	Radon(pCi/l)	Temp(F)	Pres(inHg)	Humidity(%)	Flags
11/29/21 11:19 AM	0.7	64.4	29.07	29	M
11/29/21 12:19 PM	2.0	63.9	29.09	29	-
11/29/21 01:19 PM	2.1	63.7	29.05	29	-
11/29/21 02:19 PM	2.2	63.7	29.11	30	-
11/29/21 03:19 PM	3.0	63.7	29.12	30	-
11/29/21 04:19 PM	3.0	63.7	29.15	31	-
11/29/21 05:19 PM	1.4	63.5	29.16	31	-
11/29/21 06:19 PM	2.2	63.5	29.17	32	-
11/29/21 07:19 PM	1.7	63.5	29.23	32	-
11/29/21 08:19 PM	2.5	63.3	29.23	32	-
11/29/21 09:19 PM	3.3	63.3	29.28	32	-
11/29/21 10:19 PM	4.1	63.1	29.30	32	-
11/29/21 11:19 PM	3.9	63.1	29.36	32	-
11/30/21 12:19 AM	4.7	63.3	29.35	32	-
11/30/21 01:19 AM	4.3	63.1	29.39	32	-
11/30/21 02:19 AM	3.6	63.3	29.40	33	-
11/30/21 03:19 AM	4.7	63.3	29.35	32	-
11/30/21 04:19 AM	4.4	63.3	29.40	32	M
11/30/21 05:19 AM	3.3	63.5	29.37	31	-
11/30/21 06:19 AM	3.4	63.7	29.45	31	-
11/30/21 07:19 AM	2.4	63.9	29.42	31	-
11/30/21 08:19 AM	1.1	64.0	29.48	31	-
11/30/21 09:19 AM	1.1	64.2	29.49	31	-
11/30/21 10:19 AM	0.9	64.2	29.53	31	-
11/30/21 11:19 AM	1.2	64.2	29.48	32	-
11/30/21 12:19 PM	2.2	64.2	29.50	32	-
11/30/21 01:19 PM	2.4	64.2	29.47	31	-
11/30/21 02:19 PM	1.8	64.2	29.47	31	-
11/30/21 03:19 PM	1.9	64.0	29.48	30	-
11/30/21 04:19 PM	1.9	64.0	29.47	30	-
11/30/21 05:19 PM	1.9	63.9	29.46	29	-
11/30/21 06:19 PM	1.8	63.9	29.40	29	-
11/30/21 07:19 PM	2.2	63.9	29.41	29	-
11/30/21 08:19 PM	2.0	63.7	29.39	29	-
11/30/21 09:19 PM	3.2	63.7	29.31	30	-
11/30/21 10:19 PM	3.5	63.5	29.36	30	-
11/30/21 11:19 PM	5.3	63.5	29.34	30	-
12/01/21 12:19 AM	5.6	63.5	29.25	30	-
12/01/21 01:19 AM	8.1	63.5	29.27	31	-
12/01/21 02:19 AM	6.0	63.5	29.23	31	-
12/01/21 03:19 AM	7.6	63.5	29.21	31	-
12/01/21 04:19 AM	7.3	63.5	29.21	32	-
12/01/21 05:19 AM	6.9	63.9	29.18	33	-
12/01/21 06:19 AM	4.7	63.7	29.12	33	-

Test Result: Pass

Test Location: 3733 43rd Avenue South Minneapolis, MN 55406

Inspection Report Date: 12/01/2021



Test Table

* Data from first 4 hours excluded from EPA calculations

<u>Date/Time</u>	<u>Radon(pCi/l)</u>	<u>Temp(F)</u>	<u>Pres(inHg)</u>	<u>Humidity(%)</u>	<u>Flags</u>
12/01/21 07:19 AM	3.3	63.9	29.14	33	-
12/01/21 08:19 AM	2.3	64.2	29.18	34	-
12/01/21 09:19 AM	1.4	64.2	29.16	35	-
12/01/21 10:19 AM	1.8	64.4	29.13	35	-

Test Result: Pass

Test Location: 3733 43rd Avenue South Minneapolis, MN 55406

Inspection Report Date: 12/01/2021

Radon Test Information

Minnesota Notice to Clients

For more information on radon, please contact the Minnesota Department of Health at 651-201-4601 or health.indoorair@state.mn.us or visit their website at <http://www.health.state.mn.us/divs/eh/indoorair/radon/index.html>.

Test Result: Pass

Test Location: 3733 43rd Avenue South Minneapolis, MN 55406

Inspection Report Date: 12/01/2021



MINNEAPOLIS
PUBLIC SCHOOLS

Urban Education. Global Citizens.

Environmental Health & Safety

Office: (612) 668-0310

Direct: (612) 668-0306

Andrew Tinklenberg

Safety Specialist

Environmental Health & Safety

RADON TESTING NOTIFICATION (2021)

Howe School

The District will be conducting short-term radon testing at Howe School. Radon is a naturally occurring radioactive gas that is created from the breakdown of Radium that is naturally present in soil. Radon can enter buildings from the soil through gaps, cracks and holes in the foundation. Radon testing is performed periodically and is being performed based on Minnesota Department of Health recommendations and protocols. As per the recommendations, frequently occupied, ground level or ground contact areas will be the focus of the testing. Sampling locations will be selected that provide the best representation of these areas.

If your room is selected for testing, please do your part by ensuring that the devices are not removed or tampered with in any way. The devices are small, rectangular envelopes, approximately 4 by 6 inches and will typically be hung from the ceiling or an interior wall. The short-term radon detectors are planned to be placed and collected November 16 – 18, 2021. When available, sample results will be shared with your principal and placed on the EH&S webpage available through the main MPS website.

An example of the detector is pictured below:



Thank you very much for your cooperation. If you have questions, please contact me at 612-668-0306 or andrew.tinklenberg@mpls.k12.mn.us

Notice of Inspection - Radon Survey in Progress

An important step is being taken to ensure a safe and healthy building. Testing for radon is recommended for all homes and schools.

Radon is a naturally occurring radioactive gas that can be present in some buildings are concentrations greater than recommended. In the United States, radon exposure is the second leading cause of lung cancer and it is the leading cause of lung cancer in nonsmokers.

Radon testing is scheduled for:

Building(s): Howe

Building Area(s): Throughout

Test Start Date: 11/16/21

Test End Date: 11/18/21

Access into your unit/room is: required not required

PLEASE START THE FOLLOWING BY:

Please help to maintain the following required test conditions:

- **Windows and Doors** need to be kept closed (aside from momentary entry and exit) on all levels of the building including areas not being tested,
- **Heating and cooling systems** need to set to normal temperatures (65-80°F),
- **Bathroom fans** should operate normally,
- Do not operate wood-burning or natural gas **fireplaces**,
- **Energy recovery ventilators (ERV) or heat recovery ventilators (HRV)** should be set to the lowest level they are used at through the year, and
- Avoid excessive operation of **exhaust systems** that draw air from laundries, workshops, community kitchens.

For inquiries or reporting concerns:

Contact Person: Andrew Tinklenberg

Phone: 612-668-0306

Visit mn.gov/radon for more information about radon

Authorizations and Lines of Communications

Please complete the following to help us clarify lines of communication and responsibilities.

Staff authorized to respond to occupant and public inquiries:

Title/Name: Lee Setter Phone: 612-668-0310 Email: lee.setter@mpls.k12.mn.us

Title/Name: Phone: Email:

Person(s) authorized to receive report data and any incremental reports:

Title/Name: Lee Setter Phone: 612-668-0310 Email: lee.setter@mpls.k12.mn.us

Title/Name: Andrew Tinklenberg Phone: 612-668-0306 Email: andrew.tinklenberg@mpls.k12.mn.us

Frequency of reports: Prior to testing After each phase of testing When testing is complete

Client & Facilitating Staff Contact Information

Client/Authorized Agent: Lee Setter Phone: 612-668-0310 Email: lee.setter@mpls.k12.mn.us

Onsite Supervisor: Andrew Tinklenberg Phone: 612-668-0306 Email: andrew.tinklenberg@mpls.k12.mn.us

Building Access: Andrew Tinklenberg Phone: 612-668-0306 Email: andrew.tinklenberg@mpls.k12.mn.us

HVAC Operations: Jason Kohlen Phone: 612-668-0338 Email: Jason.kohlen@mpls.k12.mn.us

Other Contacts (Title/Name): Phone: Email:

Radon Testing Professional Contact Information:

Scheduling/Logistics: Andrew Tinklenberg Phone: 612-668-0306 Email: andrew.tinklenberg@mpls.k12.mn.us

On-site Professional: Andrew Tinklenberg Phone: 612-668-0306 Email: andrew.tinklenberg@mpls.k12.mn.us

Licensed Field Technician: Andrew Tinklenberg Phone: 612-668-0306 Email: andrew.tinklenberg@mpls.k12.mn.us

Licensed Field Technician: Phone: Email:

Client Commitment to Compliance

By signing below, I am committing to help ensure that building conditions required to achieve reliable radon tests are met.

Management

Help Onsite Supervisors and Building Operations Staff maintain closed-building conditions and meet the requirements list above.

Name: Andrew Tinklenberg@mpls.k12.mn.us


Signature: 

Date: 11/16/21

Onsite Supervisor

To help ensure reliable radon tests, the onsite supervisor will:

- **Prior Notification:** distribute notices to all building occupants no later than the day before testing. Notices must be given to all occupants regardless if their unit/room is being tested and posted in publicly accessible areas such as corridors, elevators, and offices.
- **Access:** provide access to each test location within the building on the same day for the event of placing test devices and a second event for retrieving test devices.
- Name: Andrew Tinklenberg@mpls.k12.mn.us


Signature: 

Date: 11/16/21

Building Operations Staff

To help ensure reliable radon tests, Building Operations Staff will:

- **Building Preparation:** no later than 12 hours prior to the start of the test, review each building scheduled for testing for compliance with closed-building requirements.
- **Compliance Verification:** verify closed-building conditions and ensure that any repairs or adjustments that impact these conditions are completed 12 hours prior to the start of the test. Initial when verified.
- Name: Andrew Tinklenberg@mpls.k12.mn.us

Signature: 

Date: 11/16/21

Building Address: Howe - 3733 43rd Ave. S., Mpls., MN Date Completed: 11/16/21 Initials: AJT

CLIENT COMMITMENT TO COMPLIANCE

Actions Required at Least 12 hour prior to test and throughout	
Windows	Close or seal on all levels of the building, including areas not being tested Exception: Do not close openings to outside to outside air designed to provide air needed for combustion appliances.
External doors (except for normal entry or exit)	
Other openings to the exterior (as a result of disrepair, incomplete construction or structural defect)	
Heating & Cooling Systems	Set to normal occupied temperatures: 65° - 80°F (Maintenance inspection of systems are recommended prior to testing)
Variable Outdoor Air Ventilation Systems (if applicable) Systems such as manually operated dampers, energy economizer systems, energy recovery ventilators (ERV), or heat recovery ventilators (HRV) that seasonally vary outdoor air ventilation for energy savings or comfort	Close outside air inlet dampers or set to minimum outdoor air intake settings that apply at all times of the year when a building is significantly occupied
Window Air Conditioners	Dampers to outside air shall be closed
Variable Air Volume (VAV) Systems (if applicable) Systems that temper room temperature using thermostats to vary the volume of heated or cooled air coming into rooms	Set all thermostats to between 65° - 80°F in all rooms that are served by the system
Return-Air Ducts laid in Soil (if applicable) Return-air ductwork is located under a slab, or otherwise laid in soil.	All testing company immediately
Heating, ventilation, and air conditioning (HVAC) setback in non-residential locations If non-residential rooms are operating with HVAC setback temperatures during nights or weekends that are outside of normal occupied temperatures of 65° - 80°F	Alter to retain temperatures within range of 65° - 80°F Or contact the testing company



Howe Test Condition Summary

November 16-18, 2021 – Minneapolis, MN (Climate Zone 6)

	Annually	During Testing
Outdoor Temperatures	Average = 46° F	Max. = 43° F Min. = 28° F Average = 35° F
Operating Conditions (Heating/Cooling)	Heating – 50% Cooling – 25% Mixed – 25%	Heating – 100% Cooling – 0% Mixed – 0%
Air Distribution Systems	Intermittent during summer	Active

* - Note: Winds were moderate throughout the testing period and light snow was recorded on Thursday.

Informative Advisories

1. Fluctuations in radon concentrations are usually caused by either:
 - changes in the strength of indoor air pressures that draw soil gas into a building; or
 - changes in the volume of outside air entering a building.
2. Clear characterization of a radon hazard is more likely to occur when:
 - Outdoor temperatures extend below 65°F (18°C), at least intermittently, which causes natural indoor air pressures that draw radon laden soil gas into a building; and
 - Heating or cooling distribution fans are at least intermittently active during a test.
3. Measurements more likely to reflect an occupant’s exposure to radon are measurements conducted under conditions that most closely align to the building operating conditions that prevail during the greatest amount of time each year.

* - Above advisory information is taken from page 31 of the ANSI/AARST Standard, “Protocols for Conducting Measurements of Radon and Radon Decay Products in Schools and Large Buildings, 2014 with 1/21.” Additional advisory notes/information will be added when necessary.

ANSI/AARST ADVISORY STATEMENTS

8-A Reporting Low Radon Concentrations

Consider fixing the building if test results indicate radon concentrations greater than half the action level, (e.g., between 2 and 4 pCi/L). Responsible care requires repeating initial testing procedures for all building(s) at least every 5 years and in conjunction with any sale of a building. Radon testing should also be conducted when any of the following circumstances occur:

- a new addition is constructed or alterations for building reconfiguration or rehabilitation occur;
- a ground contact area not previously tested is occupied, or a building is newly occupied;
- heating or cooling systems are significantly altered, resulting in changes to air pressures or pressure relationships;
- ventilation is significantly altered by extensive weatherization, changes to mechanical systems or comparable procedures;
- significant openings to soil occur due to:
 - groundwater or slab surface water control systems that are altered or added (e.g., sumps, perimeter drain tile, shower/tub retrofits, etc.) or,
 - natural settlement causing major cracks to develop;
- earthquakes or construction blasting, fracking or formation of sink holes nearby; or
- a mitigation system is altered, modified or repaired.

Should testing indicate concentrations that meet or exceed the action level, conduct evaluations, corrections and further testing until radon concentrations have been mitigated to below the action level.

Table 8-B Reporting Elevated Radon Concentrations

Fix the building. Test results indicate occupants may be exposed to radon concentrations that meet or exceed the action level. Efforts to reduce radon concentrations are not complete until retests provide evidence of effectiveness. The initial retest should be conducted within 30 days after mitigation efforts and system installations.

Post-mitigation clearance testing to confirm each building is fixed requires testing all buildings that demonstrated elevated radon concentrations:

- 1) in all ground-contact rooms and dwellings,
- 2) in not less than 10% of non-residential rooms and dwellings on each upper floor.

Should testing indicate concentrations that meet or exceed the action level, conduct evaluations, corrections and further testing until radon concentrations have been mitigated to below the action level.

* - Above advisory information is taken from page 28-29 of the ANSI/AARST Standard, "Protocols for Conducting Measurements of Radon and Radon Decay Products in Schools and Large Buildings, 2014 with 1/21 Revisions." Additional advisory notes/information will be added when necessary.