



**Date:** 12/20/23

Performed by: Andrew Tinklenberg

**Location:** Green Central School – 3416 4<sup>th</sup> Avenue South, Minneapolis, MN 55408

**RE:** Radon Testing

#### **INTRODUCTION**

From December 12-14, 2023, radon testing was performed within Green Central School located at 3416 4<sup>th</sup> 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 Protocol for Conducting Measurements of Radon and Radon Decay Products in Multifamily, School, Commercial and Mixed-Use Buildings (MA-MFLB 2023) and Minnesota Department of Health (MDH) guidelines.

#### **SUMMARY OF FINDINGS**

All of the areas that were tested were found to have radon gas levels below 4.0 picocuries per liter of air (pCi/L), which is the EPA and MDH action level. The test kit in Office 409B was lost/removed and could not be submitted for analysis. However, because the radon levels throughout the rest of the building were found to be below 2.7 pCi/L and the number of missing test kits did not exceed the allowable amount, re-testing in the space is not required (ANSI/AARST MA-MFLB-2023 Protocol 6.2). (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 Rooms "A" & "B" were the blank samples.)

The radon test kits were submitted to and analyzed by AirChek, Inc., 1936 Butler Bridge Rd, Mills River, NC 28759 (MN License #RL-00003). Please refer to the attached AirChek radon 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 - <a href="health.indoorair@state.mn.us">health.indoorair@state.mn.us</a>, Phone # 651-201-4601) and incorporated in an MPS' board meeting. The information will also be posted on the <a href="health.septimento-state-

#### **REMARKS**

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,

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Andrew Tinklenberg MDH RMEA-00426 NRPP ID# 111389 RT



Safety Specialist - Environmental Health & Safety Minneapolis Public Schools Environmental Health & Safety - Facilities Dept. 1225 N. 7<sup>th</sup> Street, Minneapolis, MN 55411 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
Notification & Communication Documents
Test Condition Summary
ANSI/AARST Advisory Statements

## 15554 / ANDREW TINKLENBERG / MINNEAPOLIS PUBLIC SCHOOLS

Kit Number	Start Date	Start Time	<b>End Date</b>	End Time	Temp.	Facility	Building	Room	Project ID	Floor	Result
11388816	2023-12-12	7:00 am	2023-12-14	3:00 pm	70	MPS GREEN CENTRAL	MPS GREEN CENTRAL	CUSTODIAN 413C	GREEN CENTRAL	1	1.3
11388817	2023-12-12	7:00 am	2023-12-14	3:00 pm	70	MPS GREEN CENTRAL	MPS GREEN CENTRAL	CUSTODIAN 413C	GREEN CENTRAL	1	1.3
11388818	2023-12-12	7:00 am	2023-12-14	3:00 pm	70	MPS GREEN CENTRAL	MPS GREEN CENTRAL	GYM NORTH	GREEN CENTRAL	1	0.7
11388819	2023-12-12	7:00 am	2023-12-14	3:00 pm	70	MPS GREEN CENTRAL	MPS GREEN CENTRAL	GYM SOUTH	GREEN CENTRAL	1	< 0.3
11388820	2023-12-12	7:00 am	2023-12-14	3:00 pm	70	MPS GREEN CENTRAL	MPS GREEN CENTRAL	FAMILY 409	GREEN CENTRAL	1	1.4
11388821	2023-12-12	7:00 am	2023-12-14	3:00 pm	70	MPS GREEN CENTRAL	MPS GREEN CENTRAL	CLASSROOM 411	GREEN CENTRAL	1	1.6
11388823	2023-12-12	7:00 am	2023-12-14	3:00 pm	70	MPS GREEN CENTRAL	MPS GREEN CENTRAL	GYM OFFICE 303A	GREEN CENTRAL	1	0.6
11388824	2023-12-12	7:00 am	2023-12-14	3:00 pm	70	MPS GREEN CENTRAL	MPS GREEN CENTRAL	CAFETERIA 118	GREEN CENTRAL	1	0.8
11388825	2023-12-12	7:00 am	2023-12-14	3:00 pm	70	MPS GREEN CENTRAL	MPS GREEN CENTRAL	KITCHEN OFFICE	GREEN CENTRAL	1	0.5
11388826	2023-12-12	7:00 am	2023-12-14	3:00 pm	70	MPS GREEN CENTRAL	MPS GREEN CENTRAL	SOUTHSIDE RECEPTION	GREEN CENTRAL	1	0.6
11388827	2023-12-12	7:00 am	2023-12-14	3:00 pm	70	MPS GREEN CENTRAL	MPS GREEN CENTRAL	SOUTHSIDE NORTHWEST HALLWAY	GREEN CENTRAL	1	0.8
11388828	2023-12-12	8:00 am	2023-12-14	3:00 pm	70	MPS GREEN CENTRAL	MPS GREEN CENTRAL	CLASSROOM 133	GREEN CENTRAL	1	1.0
11388829	2023-12-12	8:00 am	2023-12-14	3:00 pm	70	MPS GREEN CENTRAL	MPS GREEN CENTRAL	OFFICE 131A	GREEN CENTRAL	1	< 0.3
11388830	2023-12-12	8:00 am	2023-12-14	3:00 pm	70	MPS GREEN CENTRAL	MPS GREEN CENTRAL	CLASSROOM 131	GREEN CENTRAL	1	0.8
11388831	2023-12-12	8:00 am	2023-12-14	3:00 pm	70	MPS GREEN CENTRAL	MPS GREEN CENTRAL	CLASSROOM 131	GREEN CENTRAL	1	0.7
11388832	2023-12-12	8:00 am	2023-12-14	3:00 pm	70	MPS GREEN CENTRAL	MPS GREEN CENTRAL	CLASSROOM 129	GREEN CENTRAL	1	0.5
11388833	2023-12-12	8:00 am	2023-12-14	3:00 pm	70	MPS GREEN CENTRAL	MPS GREEN CENTRAL	CLASSROOM 121	GREEN CENTRAL	1	0.8
11388834	2023-12-12	8:00 am	2023-12-14	3:00 pm	70	MPS GREEN CENTRAL	MPS GREEN CENTRAL	CLASSROOM 119	GREEN CENTRAL	1	1.0
11388835	2023-12-12	8:00 am	2023-12-14	3:00 pm	70	MPS GREEN CENTRAL	MPS GREEN CENTRAL	CLASSROOM 117	GREEN CENTRAL	1	0.6
11388836	2023-12-12	8:00 am	2023-12-14	3:00 pm	70	MPS GREEN CENTRAL	MPS GREEN CENTRAL	MEDIA 116	GREEN CENTRAL	1	0.8
11388837	2023-12-12	8:00 am	2023-12-14	3:00 pm	70	MPS GREEN CENTRAL	MPS GREEN CENTRAL	COMPUTER 114	GREEN CENTRAL	1	1.1
11388838	2023-12-12	8:00 am	2023-12-14	3:00 pm	70	MPS GREEN CENTRAL	MPS GREEN CENTRAL	OFFICE 116A	GREEN CENTRAL	1	0.9
11388839	2023-12-12	8:00 am	2023-12-14	3:00 pm	70	MPS GREEN CENTRAL	MPS GREEN CENTRAL	OFFICE 116C	GREEN CENTRAL	1	< 0.3
11388840	2023-12-12	8:00 am	2023-12-14	3:00 pm	70	MPS GREEN CENTRAL	MPS GREEN CENTRAL	BOOK ROOM/OFFICE 116E	GREEN CENTRAL	1	0.7
11388841	2023-12-12	8:00 am	2023-12-14	3:00 pm	70	MPS GREEN CENTRAL	MPS GREEN CENTRAL	CLASSROOM 115	GREEN CENTRAL	1	0.6
11388842	2023-12-12	8:00 am	2023-12-14	3:00 pm	70	MPS GREEN CENTRAL	MPS GREEN CENTRAL	CLASSROOM 113	GREEN CENTRAL	1	0.9
11388843	2023-12-12	8:00 am	2023-12-14	3:00 pm	70	MPS GREEN CENTRAL	MPS GREEN CENTRAL	CLASSROOM 111	GREEN CENTRAL	1	1.0
11388844	2023-12-12	8:00 am	2023-12-14	3:00 pm	70	MPS GREEN CENTRAL	MPS GREEN CENTRAL	CLASSROOM 111	GREEN CENTRAL	1	1.0
11388845	2023-12-12	8:00 am	2023-12-14	3:00 pm	70	MPS GREEN CENTRAL	MPS GREEN CENTRAL	CLASSROOM 103	GREEN CENTRAL	1	0.8
11388846	2023-12-12	8:00 am	2023-12-14	3:00 pm	70	MPS GREEN CENTRAL	MPS GREEN CENTRAL	CLASSROOM 101	GREEN CENTRAL	1	0.9
11388847	2023-12-12	8:00 am	2023-12-14	3:00 pm	70	MPS GREEN CENTRAL	MPS GREEN CENTRAL	MAIN OFFICE 100	GREEN CENTRAL	1	0.8
11388848	2023-12-12	8:00 am	2023-12-14	3:00 pm	70	MPS GREEN CENTRAL	MPS GREEN CENTRAL	OFFICE 100C	GREEN CENTRAL	1	2.0
11388849	2023-12-12	8:00 am	2023-12-14	3:00 pm	70	MPS GREEN CENTRAL	MPS GREEN CENTRAL	OFFICE 100D	GREEN CENTRAL	1	1.1
11388850	2023-12-12	8:00 am	2023-12-14	3:00 pm	70	MPS GREEN CENTRAL	MPS GREEN CENTRAL	OFFICE 100G	GREEN CENTRAL	1	0.9
11388851	2023-12-12	8:00 am	2023-12-14	3:00 pm	70	MPS GREEN CENTRAL	MPS GREEN CENTRAL	HEALTH OFFICE 100I	GREEN CENTRAL	1	1.0

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11388852 20			Enu Date	End Time	Temp.	Facility	Building	Room	Project ID	Floor	Result
	2023-12-12	8:00 am	2023-12-14	3:00 pm	70	MPS GREEN CENTRAL	MPS GREEN CENTRAL	STAFF 112	GREEN CENTRAL	1	0.6
11388853 20	2023-12-12	8:00 am	2023-12-14	3:00 pm	70	MPS GREEN CENTRAL	MPS GREEN CENTRAL	OFFICE 110	GREEN CENTRAL	1	0.6
11388854 20	2023-12-12	8:00 am	2023-12-14	3:00 pm	70	MPS GREEN CENTRAL	MPS GREEN CENTRAL	PARK BOARD REC. AREA	GREEN CENTRAL	1	0.7
11388855 20	2023-12-12	8:00 am	2023-12-14	3:00 pm	70	MPS GREEN CENTRAL	MPS GREEN CENTRAL	CLASSROOM 507	GREEN CENTRAL	2	1.1
11388856 20	2023-12-12	8:00 am	2023-12-14	3:00 pm	70	MPS GREEN CENTRAL	MPS GREEN CENTRAL	CLASSROOM 507	GREEN CENTRAL	2	0.8
11388857 20	2023-12-12	8:00 am	2023-12-14	3:00 pm	70	MPS GREEN CENTRAL	MPS GREEN CENTRAL	CLASSROOM 239	GREEN CENTRAL	2	< 0.3
11388858 20	2023-12-12	9:00 am	2023-12-14	3:00 pm	70	MPS GREEN CENTRAL	MPS GREEN CENTRAL	CLASSROOM 210	GREEN CENTRAL	2	< 0.3
11388859 20	2023-12-12	9:00 am	2023-12-14	3:00 pm	70	MPS GREEN CENTRAL	MPS GREEN CENTRAL	ROOM A	GREEN CENTRAL	2	< 0.3
11388860 20	2023-12-12	9:00 am	2023-12-14	3:00 pm	70	MPS GREEN CENTRAL	MPS GREEN CENTRAL	ROOM B	GREEN CENTRAL	2	< 0.3

Air Chek 1936 Butler Bridge Rd, Mills River, NC 28759-3892 Phone: (828) 684-0893 Fax: (828) 684-8498



**Environmental Health & Safety** 

Office: (612) 668-0310 Direct: (612) 668-0306 Andrew Tinklenberg Safety Specialist Environmental Health & Safety

## **RADON TESTING NOTIFICATION (2023)**

## **Green Central School**

The District will be conducting short-term radon testing at Green Central 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 December 12 – 14, 2023. 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 for Facilitating Staff**

## A radon test is scheduled for:

Building:	
Test Start Date:	Test End Date:

## Please help to maintain the required test conditions throughout the building:

- 1. All windows and exterior doors must be kept closed (aside for momentary entry or exit) for 12 hours before and during the test.
- 2. Heating and cooling systems must be set to normal occupied operating temperatures.
- 3. Test devices are not to be disturbed.

Further guidance on required building conditions are found on the next page.

Test kits are not dangerous in any way. The type of devices used for this testing may include:

- **Short-term test kits**: It's important these devices are fully open and not covered. They will be analyzed by a laboratory.
- Continuous radon monitors: These are electronic monitors that record hourly radon readings.
- Long-term test kits: It is important that these devices are not covered. They will be analyzed by a laboratory.

## **Declaration of Observed Compliance:**

Failure to reasonably maintain test conditions can lead to unnecessary expense, disruptions, and unreliable data. Disturbing test devices can also cause unreliable or invalid test results.

- Please report in a timely manner if required test conditions are not maintained.
- Please sign and return this form once the rest is complete.

To the best of my knowledge, the required conditions were maintained during the test.

Yes	No		
Name	:		
Signat	ure: Mu	Date:	

## NOTICE OF INSPECTION FOR FACILITATING STAFF

## **Required Closed Building Conditions for Radon Testing**

Building Component	Action Required	
Windows	Keep Closed, Seal broken windows closed	
External doors (except for normal entry or exit)	Keep Closed	
Heating & Cooling Systems	Set to normal operating conditions	
Bathroom fans	Operate normally	
Fireplaces (including gas)	Do not operate	
Auxiliary or temporary systems that bring air into the building	Do not operate, unless an integral part of HVAC or supplies make-up air for combustion appliances	
Exhaust systems (ex. from shops, laundries, kitchens)	Avoid excessive operation	
Interior doors, Stairwells, Fire Doors	Operate Normally	
Garage doors	Operate normally	
Ceiling Fans, Portable Fans	Do not blow directly on the test device	
Window AC Units	Operate in recirculation mode only	
Window Fans	Do not operate. Seal shut or remove.	
Humidifiers, Dehumidifiers, Portable Air Cleaners	Operate Normally	
Central Vacuum Cleaner Systems	Operate Normally	
Passive crawl space vents	Operate normally	
Crawlspace exhaust systems for humidity control	Operate normally	
Passive Vents for Combustion Make-Up Air	Leave Open	

#### NOTICE OF INSPECTION FOR FACILITATING STAFF

Building Component	Action Required
Combustion Appliance Vents	Operate Normally
Passive Solar Systems	Operate Normally
Attic Vent Fans	Operate Normally
<b>Evaporative Cooling Systems</b>	Do not operate

## **Radon Test Device Placement Requirements**

Place detectors within the general breathing zone. Locate detectors no less than:

- 3 feet from exterior doors, windows, other openings to outdoors,
- 20 inches above the floor,
- · 4 inches from other test devices and objects, and
- 1 foot from ceilings.

Place detectors where they are not easily disturbed.

Place detectors where they are not influenced by other factors:

- Do not place in closets, crawlspaces, cupboards, sumps, or nooks within building foundation,
- Do not place devices in areas with high air movement (ex. mechanical areas, furnace closets),
- Do not place devices in areas with high humidity (ex. kitchens, bathrooms, laundry rooms),
- Do not place devices near drafts from HVAC systems or fans,
- Do not place test devices near heat sources (ex. appliances, radiators, fireplaces, direct sun), and
- Do not place detectors on devices that produce radiation (ex. natural stone counters, pool tables, rock collections)

## For more information regarding on-site activities, contact:

Licensed measurement p	professional:	

Minnesota Department of Health, Indoor Air Unit, PO Box 64975, St. Paul, MN 55164 651-201-4601, health.indoorair@state.mn.us, mn.gov/radon

8/17/2023, To obtain this information in a different format, call: 651-201-4601.



# **Notice of Inspection for Building Occupants**

#### A radon test is scheduled for:

Building:		
Test Start Date:	Test End Date:	

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 at 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.

Please help to maintain the required test conditions throughout the building.

- 1. All windows and exterior doors must be kept closed (aside from momentary entry or exit) for 12 hours before and during the test.
- 2. Heating and cooling systems must be set to normal occupied operating temperatures.
- 3. Test devices are not to be disturbed.

The test devices are not dangerous in any way and a sample device is available to view upon request.

More information about radon in Minnesota can be found online at mn.gov/radon.

If you have any questions or concerns, please contact:



## **Client Authorizations & Communications**

Client and Facilitating Staff Memb	er Contact Information
Client/Authorized Agent	phone
Onsite Supervisor	phone
Building/Dwelling Access	phone
HVAC Operations	phone
Other Contact/Title	phone
Radon Testing Professional Conta	ct Information
Scheduling/Logistics	phone
Onsite Supervisor	phone
Field Technician	phone
Field Technician	phone
Staff authorized for responding to	occupant and public inquiries:
Name/Title	phone
Name/Title	phone
Person(s) authorized to receive re	port data and incremental reports:
Name/Title	phone
Name/Title	phone
Frequency of Reports	
	se of testing when testing is complete

Minnesota Department of Health | Indoor Air Unit | PO Box 64975 | St. Paul, MN 55164 | 651-201-4601 health.indoorair@state.mn.us | www.health.state.mn.us | mngov/radon

08/17/2023 | To obtain this information in a different format, call: 651-201-4601.



# **Client Commitment to Compliance**

## **Management Commitment:**

To the extent reasonably possible, I, on behalf of	, commit to
helping ensure that building conditions required to achieve reliable radon	
Client/Authorized Agent:	
Signature: Man Signature:	Date:
<b>Building On-Site Supervisor Commitment:</b>	
To the extent reasonably possible, I commit to helping ensure that building reliable radon tests are met, as portrayed herein, by accepting the following	
<ol> <li>Prior Notifications: Notices will be distributed to all tested and non publicly accessible areas in a timely manner.</li> </ol>	n-tested dwellings and posted in
<ol> <li>Access: Access will be provided to each location being tested within locations on the same day for both the event of placing testing dev retrieving test devices.</li> </ol>	_
On-Site Supervisor:	<del></del>
Signature: The Signature S	Date:
Building Operations Staff Commitment:	
To the extent reasonably possible, I commit to helping ensure that building reliable radon tests are met, as portrayed herein, by accepting the following	
<ol> <li>Building Preparation: I accept responsibility that, no later than 12 h scheduled for testing will be reviewed for compliance with closed-b</li> </ol>	
<ol> <li>Compliance Verification: I accept responsibility for taking actions the HVAC units and repairs where completion is required no later than</li> </ol>	<del>-</del>
HVAC Operations Supervisor:	
Signature: Man S	Date:

Minnesota Department of Health, Indoor Air Unit, PO Box 64975, St. Paul, MN 55164 651-201-4601, <a href="https://health.indoorair@state.mn.us">health.indoorair@state.mn.us</a>, mn.gov/radon



## **Green Central Test Condition Summary**

### December 12-14, 2023 - Minneapolis, MN (Climate Zone 6)

	Annually	During the Test
Outdoor Temperatures	Average = 46° F	Max. = 50° F
		Min. = 21° F
		Average = 35° F
<b>Prevailing Operating Condition</b>	Heating – 50%	Heating – 100%
(Heating/Cooling)	Cooling – 25%	Cooling – 0%
	Mixed – 25%	Mixed – 0%
Air Distribution Systems	Intermittent during summer	Active

<sup>\* -</sup> Note: No rain or snowfall was recorded during the testing period and winds were light to moderate.

## **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.

<sup>\* -</sup> Above advisory information is taken from page 33 of the ANSI/AARST MA-MFLB-2023 Standard, "Protocol for Conducting Measurements of Radon and Radon Decay Products in Multifamily, School, Commercial and Mixed-Use Buildings." Additional advisory notes/information will be added when necessary. Weather information was collected from timeanddate.com/weather/usa/minneapolis.

## **ANSI/AARST ADVISORY STATEMENTS**

### **Table 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:
  - o groundwater or slab surface water control systems that are altered or added (e.g., sumps, perimeter drain tile, shower/tub retrofits, etc.) or,
  - o 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.

<sup>\* -</sup> Above advisory information is taken from pages 29-30 of the ANSI/AARST MA-MFLB-2023 Standard, "Protocol for Conducting Measurements of Radon and Radon Decay Products in Multifamily, School, Commercial and Mixed-Use Buildings." Additional advisory notes/information will be added when necessary.