



**Date:** 1/14/25

**Performed by:** Andrew Tinklenberg

**Location:** Roosevelt High School – 4029 28<sup>th</sup> Avenue South, Minneapolis, MN 55406

**RE:** Radon Testing

## INTRODUCTION

From January 6 – 9, 2025, radon testing was performed within Roosevelt High School located at 4029 28<sup>th</sup> Avenue South, 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 the lower north gym 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, C & D” were the blank samples.)

## 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). 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 - [health.indoorair@state.mn.us](mailto: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,



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MDH RMEA-00426  
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### **Attachments**

Radon Testing Results  
Floor Plans  
Notification & Communication 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 |
|------------|------------|------------|------------|----------|-------|---------------|---------------|----------------------|------------|-------|--------|
| 11811136   | 2025-01-06 | 7:00 am    | 2025-01-09 | 3:00 pm  | 70    | MPS ROOSEVELT | MPS ROOSEVELT | CAFETERIA NORTH      | ROOSEVELT  | 0     | 0.6    |
| 11811137   | 2025-01-06 | 7:00 am    | 2025-01-09 | 3:00 pm  | 70    | MPS ROOSEVELT | MPS ROOSEVELT | CAFETERIA SOUTH      | ROOSEVELT  | 0     | 0.9    |
| 11811138   | 2025-01-06 | 7:00 am    | 2025-01-09 | 3:00 pm  | 70    | MPS ROOSEVELT | MPS ROOSEVELT | CAFETERIA OFFICE     | ROOSEVELT  | 0     | 0.5    |
| 11811139   | 2025-01-06 | 7:00 am    | 2025-01-09 | 3:00 pm  | 70    | MPS ROOSEVELT | MPS ROOSEVELT | WRESTLING ROOM       | ROOSEVELT  | 0     | 0.8    |
| 11811140   | 2025-01-06 | 7:00 am    | 2025-01-09 | 3:00 pm  | 70    | MPS ROOSEVELT | MPS ROOSEVELT | SOUTH GYM            | ROOSEVELT  | 0     | 0.5    |
| 11811141   | 2025-01-06 | 7:00 am    | 2025-01-09 | 3:00 pm  | 70    | MPS ROOSEVELT | MPS ROOSEVELT | OFFICE 006           | ROOSEVELT  | 0     | 0.8    |
| 11811142   | 2025-01-06 | 7:00 am    | 2025-01-09 | 3:00 pm  | 70    | MPS ROOSEVELT | MPS ROOSEVELT | CLASSROOM 008        | ROOSEVELT  | 0     | 2.1    |
| 11811143   | 2025-01-06 | 7:00 am    | 2025-01-09 | 3:00 pm  | 70    | MPS ROOSEVELT | MPS ROOSEVELT | CLASSROOM 008        | ROOSEVELT  | 0     | 2.3    |
| 11811144   | 2025-01-06 | 7:00 am    | 2025-01-09 | 3:00 pm  | 70    | MPS ROOSEVELT | MPS ROOSEVELT | CLASSROOM 009        | ROOSEVELT  | 0     | 2.0    |
| 11811145   | 2025-01-06 | 7:00 am    | 2025-01-09 | 3:00 pm  | 70    | MPS ROOSEVELT | MPS ROOSEVELT | BREAK ROOM 010       | ROOSEVELT  | 0     | 1.4    |
| 11811146   | 2025-01-06 | 7:00 am    | 2025-01-09 | 3:00 pm  | 70    | MPS ROOSEVELT | MPS ROOSEVELT | WEIGHT ROOM 012      | ROOSEVELT  | 0     | 2.2    |
| 11811147   | 2025-01-06 | 7:00 am    | 2025-01-09 | 3:00 pm  | 70    | MPS ROOSEVELT | MPS ROOSEVELT | CLASSROOM 011        | ROOSEVELT  | 0     | 0.8    |
| 11811149   | 2025-01-06 | 7:00 am    | 2025-01-09 | 3:00 pm  | 70    | MPS ROOSEVELT | MPS ROOSEVELT | CUSTODIAL OFFICE 154 | ROOSEVELT  | 1     | < 0.3  |
| 11811150   | 2025-01-06 | 7:00 am    | 2025-01-09 | 3:00 pm  | 70    | MPS ROOSEVELT | MPS ROOSEVELT | OFFICE 158           | ROOSEVELT  | 1     | 0.7    |
| 11811151   | 2025-01-06 | 7:00 am    | 2025-01-09 | 3:00 pm  | 70    | MPS ROOSEVELT | MPS ROOSEVELT | OFFICE 100           | ROOSEVELT  | 1     | 0.5    |
| 11811152   | 2025-01-06 | 7:00 am    | 2025-01-09 | 4:00 pm  | 70    | MPS ROOSEVELT | MPS ROOSEVELT | OFFICE 100A          | ROOSEVELT  | 1     | 0.6    |
| 11811153   | 2025-01-06 | 7:00 am    | 2025-01-09 | 4:00 pm  | 70    | MPS ROOSEVELT | MPS ROOSEVELT | OFFICE 12            | ROOSEVELT  | 1     | < 0.3  |
| 11811154   | 2025-01-06 | 7:00 am    | 2025-01-09 | 4:00 pm  | 70    | MPS ROOSEVELT | MPS ROOSEVELT | OFFICE 11            | ROOSEVELT  | 1     | 0.6    |
| 11811155   | 2025-01-06 | 7:00 am    | 2025-01-09 | 4:00 pm  | 70    | MPS ROOSEVELT | MPS ROOSEVELT | OFFICE 10            | ROOSEVELT  | 1     | < 0.3  |
| 11811156   | 2025-01-06 | 7:00 am    | 2025-01-09 | 4:00 pm  | 70    | MPS ROOSEVELT | MPS ROOSEVELT | OFFICE 9             | ROOSEVELT  | 1     | 0.6    |
| 11811157   | 2025-01-06 | 7:00 am    | 2025-01-09 | 4:00 pm  | 70    | MPS ROOSEVELT | MPS ROOSEVELT | OFFICE 8             | ROOSEVELT  | 1     | < 0.3  |
| 11811158   | 2025-01-06 | 7:00 am    | 2025-01-09 | 4:00 pm  | 70    | MPS ROOSEVELT | MPS ROOSEVELT | OFFICE 8             | ROOSEVELT  | 1     | < 0.3  |
| 11811159   | 2025-01-06 | 7:00 am    | 2025-01-09 | 4:00 pm  | 70    | MPS ROOSEVELT | MPS ROOSEVELT | OFFICE 7             | ROOSEVELT  | 1     | < 0.3  |
| 11811160   | 2025-01-06 | 7:00 am    | 2025-01-09 | 4:00 pm  | 70    | MPS ROOSEVELT | MPS ROOSEVELT | OFFICE 6             | ROOSEVELT  | 1     | < 0.3  |
| 11811161   | 2025-01-06 | 7:00 am    | 2025-01-09 | 4:00 pm  | 70    | MPS ROOSEVELT | MPS ROOSEVELT | OFFICE 5             | ROOSEVELT  | 1     | 0.6    |
| 11811162   | 2025-01-06 | 7:00 am    | 2025-01-09 | 4:00 pm  | 70    | MPS ROOSEVELT | MPS ROOSEVELT | OFFICE 4             | ROOSEVELT  | 1     | < 0.3  |
| 11811163   | 2025-01-06 | 8:00 am    | 2025-01-09 | 4:00 pm  | 70    | MPS ROOSEVELT | MPS ROOSEVELT | OFFICE 3             | ROOSEVELT  | 1     | 0.6    |
| 11811164   | 2025-01-06 | 8:00 am    | 2025-01-09 | 4:00 pm  | 70    | MPS ROOSEVELT | MPS ROOSEVELT | OFFICE 2             | ROOSEVELT  | 1     | 0.7    |
| 11811165   | 2025-01-06 | 8:00 am    | 2025-01-09 | 4:00 pm  | 70    | MPS ROOSEVELT | MPS ROOSEVELT | OFFICE 1             | ROOSEVELT  | 1     | 0.6    |
| 11811166   | 2025-01-06 | 8:00 am    | 2025-01-09 | 4:00 pm  | 70    | MPS ROOSEVELT | MPS ROOSEVELT | OFFICE 103           | ROOSEVELT  | 1     | < 0.3  |
| 11811167   | 2025-01-06 | 8:00 am    | 2025-01-09 | 4:00 pm  | 70    | MPS ROOSEVELT | MPS ROOSEVELT | CLASSROOM 113        | ROOSEVELT  | 1     | 0.8    |
| 11811168   | 2025-01-06 | 8:00 am    | 2025-01-09 | 4:00 pm  | 70    | MPS ROOSEVELT | MPS ROOSEVELT | CLASSROOM 115        | ROOSEVELT  | 1     | 1.1    |
| 11811169   | 2025-01-06 | 8:00 am    | 2025-01-09 | 4:00 pm  | 70    | MPS ROOSEVELT | MPS ROOSEVELT | CLASSROOM 115        | ROOSEVELT  | 1     | 1.2    |
| 11811170   | 2025-01-06 | 8:00 am    | 2025-01-09 | 4:00 pm  | 70    | MPS ROOSEVELT | MPS ROOSEVELT | CLASSROOM 117        | ROOSEVELT  | 1     | 0.9    |
| 11811171   | 2025-01-06 | 8:00 am    | 2025-01-09 | 4:00 pm  | 70    | MPS ROOSEVELT | MPS ROOSEVELT | CLASSROOM 119        | ROOSEVELT  | 1     | 2.7    |

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| Kit Number | Start Date | Start Time | End Date   | End Time | Temp. | Facility      | Building      | Room           | Project ID | Floor | Result |
|------------|------------|------------|------------|----------|-------|---------------|---------------|----------------|------------|-------|--------|
| 11811172   | 2025-01-06 | 8:00 am    | 2025-01-09 | 4:00 pm  | 70    | MPS ROOSEVELT | MPS ROOSEVELT | CLASSROOM 121  | ROOSEVELT  | 1     | 1.6    |
| 11811173   | 2025-01-06 | 8:00 am    | 2025-01-09 | 4:00 pm  | 70    | MPS ROOSEVELT | MPS ROOSEVELT | CLASSROOM 130  | ROOSEVELT  | 1     | 1.5    |
| 11811174   | 2025-01-06 | 8:00 am    | 2025-01-09 | 4:00 pm  | 70    | MPS ROOSEVELT | MPS ROOSEVELT | CLASSROOM 122  | ROOSEVELT  | 1     | < 0.3  |
| 11811175   | 2025-01-06 | 8:00 am    | 2025-01-09 | 4:00 pm  | 70    | MPS ROOSEVELT | MPS ROOSEVELT | CLASSROOM 131  | ROOSEVELT  | 1     | 1.3    |
| 11811176   | 2025-01-06 | 8:00 am    | 2025-01-09 | 4:00 pm  | 70    | MPS ROOSEVELT | MPS ROOSEVELT | CLASSROOM 133  | ROOSEVELT  | 1     | 1.1    |
| 11811177   | 2025-01-06 | 8:00 am    | 2025-01-09 | 4:00 pm  | 70    | MPS ROOSEVELT | MPS ROOSEVELT | CLASSROOM 135  | ROOSEVELT  | 1     | 1.0    |
| 11811178   | 2025-01-06 | 8:00 am    | 2025-01-09 | 4:00 pm  | 70    | MPS ROOSEVELT | MPS ROOSEVELT | CLASSROOM 135  | ROOSEVELT  | 1     | 0.5    |
| 11811179   | 2025-01-06 | 8:00 am    | 2025-01-09 | 4:00 pm  | 70    | MPS ROOSEVELT | MPS ROOSEVELT | CLASSROOM 137  | ROOSEVELT  | 1     | 0.9    |
| 11811180   | 2025-01-06 | 8:00 am    | 2025-01-09 | 4:00 pm  | 70    | MPS ROOSEVELT | MPS ROOSEVELT | CLASSROOM 139  | ROOSEVELT  | 1     | < 0.3  |
| 11811181   | 2025-01-06 | 8:00 am    | 2025-01-09 | 4:00 pm  | 70    | MPS ROOSEVELT | MPS ROOSEVELT | CLASSROOM 136  | ROOSEVELT  | 1     | 1.5    |
| 11811182   | 2025-01-06 | 8:00 am    | 2025-01-09 | 4:00 pm  | 70    | MPS ROOSEVELT | MPS ROOSEVELT | CLASSROOM 112  | ROOSEVELT  | 1     | 0.6    |
| 11811183   | 2025-01-06 | 8:00 am    | 2025-01-09 | 4:00 pm  | 70    | MPS ROOSEVELT | MPS ROOSEVELT | CLASSROOM 141  | ROOSEVELT  | 1     | < 0.3  |
| 11811184   | 2025-01-06 | 8:00 am    | 2025-01-09 | 4:00 pm  | 70    | MPS ROOSEVELT | MPS ROOSEVELT | CLINIC 143     | ROOSEVELT  | 1     | 0.8    |
| 11811185   | 2025-01-06 | 8:00 am    | 2025-01-09 | 4:00 pm  | 70    | MPS ROOSEVELT | MPS ROOSEVELT | CLASSROOM 147  | ROOSEVELT  | 1     | 0.6    |
| 11811186   | 2025-01-06 | 8:00 am    | 2025-01-09 | 4:00 pm  | 70    | MPS ROOSEVELT | MPS ROOSEVELT | CLASSROOM 149  | ROOSEVELT  | 1     | < 0.3  |
| 11811187   | 2025-01-06 | 8:00 am    | 2025-01-09 | 4:00 pm  | 70    | MPS ROOSEVELT | MPS ROOSEVELT | CLASSROOM 151  | ROOSEVELT  | 1     | < 0.3  |
| 11811188   | 2025-01-06 | 8:00 am    | 2025-01-09 | 4:00 pm  | 70    | MPS ROOSEVELT | MPS ROOSEVELT | SHOP 171A      | ROOSEVELT  | 1     | < 0.3  |
| 11811189   | 2025-01-06 | 8:00 am    | 2025-01-09 | 4:00 pm  | 70    | MPS ROOSEVELT | MPS ROOSEVELT | CLASSROOM 171  | ROOSEVELT  | 1     | 0.5    |
| 11811190   | 2025-01-06 | 8:00 am    | 2025-01-09 | 4:00 pm  | 70    | MPS ROOSEVELT | MPS ROOSEVELT | CLASSROOM 173  | ROOSEVELT  | 1     | < 0.3  |
| 11811191   | 2025-01-06 | 8:00 am    | 2025-01-09 | 4:00 pm  | 70    | MPS ROOSEVELT | MPS ROOSEVELT | SHOP 175       | ROOSEVELT  | 1     | 0.6    |
| 11811192   | 2025-01-06 | 8:00 am    | 2025-01-09 | 4:00 pm  | 70    | MPS ROOSEVELT | MPS ROOSEVELT | CLASSROOM 182  | ROOSEVELT  | 1     | < 0.3  |
| 11811193   | 2025-01-06 | 8:00 am    | 2025-01-09 | 4:00 pm  | 70    | MPS ROOSEVELT | MPS ROOSEVELT | CLASSROOM 182  | ROOSEVELT  | 1     | 0.6    |
| 11811194   | 2025-01-06 | 8:00 am    | 2025-01-09 | 4:00 pm  | 70    | MPS ROOSEVELT | MPS ROOSEVELT | SHOP 182A      | ROOSEVELT  | 1     | 0.6    |
| 11811195   | 2025-01-06 | 8:00 am    | 2025-01-09 | 4:00 pm  | 70    | MPS ROOSEVELT | MPS ROOSEVELT | CLASSROOM 184  | ROOSEVELT  | 1     | < 0.3  |
| 11811196   | 2025-01-06 | 8:00 am    | 2025-01-09 | 4:00 pm  | 70    | MPS ROOSEVELT | MPS ROOSEVELT | CLASSROOM 184A | ROOSEVELT  | 1     | < 0.3  |
| 11811197   | 2025-01-06 | 8:00 am    | 2025-01-09 | 4:00 pm  | 70    | MPS ROOSEVELT | MPS ROOSEVELT | CLASSROOM 186  | ROOSEVELT  | 1     | < 0.3  |
| 11811198   | 2025-01-06 | 8:00 am    | 2025-01-09 | 4:00 pm  | 70    | MPS ROOSEVELT | MPS ROOSEVELT | SHOP 186A      | ROOSEVELT  | 1     | < 0.3  |
| 11811199   | 2025-01-06 | 9:00 am    | 2025-01-09 | 4:00 pm  | 70    | MPS ROOSEVELT | MPS ROOSEVELT | GYM 166 EAST   | ROOSEVELT  | 1     | 0.6    |
| 11811200   | 2025-01-06 | 9:00 am    | 2025-01-09 | 4:00 pm  | 70    | MPS ROOSEVELT | MPS ROOSEVELT | GYM 166 WEST   | ROOSEVELT  | 1     | < 0.3  |
| 11811201   | 2025-01-06 | 9:00 am    | 2025-01-09 | 4:00 pm  | 70    | MPS ROOSEVELT | MPS ROOSEVELT | OFFICE 174E    | ROOSEVELT  | 1     | 0.6    |
| 11811202   | 2025-01-06 | 9:00 am    | 2025-01-09 | 4:00 pm  | 70    | MPS ROOSEVELT | MPS ROOSEVELT | OFFICE 164A    | ROOSEVELT  | 1     | 1.4    |
| 11811203   | 2025-01-06 | 9:00 am    | 2025-01-09 | 4:00 pm  | 70    | MPS ROOSEVELT | MPS ROOSEVELT | OFFICE 162     | ROOSEVELT  | 1     | 1.4    |
| 11811204   | 2025-01-06 | 9:00 am    | 2025-01-09 | 4:00 pm  | 70    | MPS ROOSEVELT | MPS ROOSEVELT | CLASSROOM 161  | ROOSEVELT  | 1     | 0.7    |
| 11811205   | 2025-01-06 | 9:00 am    | 2025-01-09 | 4:00 pm  | 70    | MPS ROOSEVELT | MPS ROOSEVELT | CLASSROOM 161  | ROOSEVELT  | 1     | 0.9    |
| 11811206   | 2025-01-06 | 9:00 am    | 2025-01-09 | 5:00 pm  | 70    | MPS ROOSEVELT | MPS ROOSEVELT | MEDIA CENTER   | ROOSEVELT  | 2     | < 0.3  |

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| Kit Number | Start Date | Start Time | End Date   | End Time | Temp. | Facility      | Building      | Room              | Project ID | Floor | Result |
|------------|------------|------------|------------|----------|-------|---------------|---------------|-------------------|------------|-------|--------|
| 11811207   | 2025-01-06 | 9:00 am    | 2025-01-09 | 5:00 pm  | 70    | MPS ROOSEVELT | MPS ROOSEVELT | CLASSROOM 243     | ROOSEVELT  | 2     | < 0.3  |
| 11811208   | 2025-01-06 | 9:00 am    | 2025-01-09 | 5:00 pm  | 70    | MPS ROOSEVELT | MPS ROOSEVELT | CLASSROOM 243     | ROOSEVELT  | 2     | < 0.3  |
| 11811209   | 2025-01-06 | 9:00 am    | 2025-01-09 | 5:00 pm  | 70    | MPS ROOSEVELT | MPS ROOSEVELT | CAREER CENTER 207 | ROOSEVELT  | 2     | 1.0    |
| 11811210   | 2025-01-06 | 9:00 am    | 2025-01-09 | 5:00 pm  | 70    | MPS ROOSEVELT | MPS ROOSEVELT | CLASSROOM 301     | ROOSEVELT  | 3     | 0.9    |
| 11811211   | 2025-01-06 | 9:00 am    | 2025-01-09 | 5:00 pm  | 70    | MPS ROOSEVELT | MPS ROOSEVELT | CLASSROOM 301     | ROOSEVELT  | 3     | 0.5    |
| 11811212   | 2025-01-06 | 9:00 am    | 2025-01-09 | 5:00 pm  | 70    | MPS ROOSEVELT | MPS ROOSEVELT | CLASSROOM 331     | ROOSEVELT  | 3     | 0.6    |
| 11811213   | 2025-01-06 | 9:00 am    | 2025-01-09 | 5:00 pm  | 70    | MPS ROOSEVELT | MPS ROOSEVELT | CLASSROOM 349     | ROOSEVELT  | 3     | 0.8    |
| 11811214   | 2025-01-06 | 9:00 am    | 2025-01-09 | 5:00 pm  | 70    | MPS ROOSEVELT | MPS ROOSEVELT | ROOM A            | ROOSEVELT  | 3     | < 0.3  |
| 11811215   | 2025-01-06 | 9:00 am    | 2025-01-09 | 5:00 pm  | 70    | MPS ROOSEVELT | MPS ROOSEVELT | ROOM B            | ROOSEVELT  | 3     | < 0.3  |
| 11811216   | 2025-01-06 | 9:00 am    | 2025-01-09 | 5:00 pm  | 70    | MPS ROOSEVELT | MPS ROOSEVELT | ROOM C            | ROOSEVELT  | 3     | < 0.3  |
| 11811217   | 2025-01-06 | 9:00 am    | 2025-01-09 | 5:00 pm  | 70    | MPS ROOSEVELT | MPS ROOSEVELT | ROOM D            | ROOSEVELT  | 3     | < 0.3  |



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**Andrew Tinklenberg**

**Safety Specialist**

**Environmental Health & Safety**

**RADON TESTING NOTIFICATION (2025)**

**Roosevelt High School**

The District will be conducting short-term radon testing at Roosevelt High 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 January 6 – 9, 2025. 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](mailto: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:

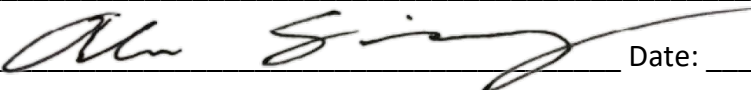
Failure to reasonably maintain test conditions can lead to unnecessary expense, disruptions, and unreliable data. Disturbing test devices can also cause unreliable or invalid test results.

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

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

Yes    No

Name: \_\_\_\_\_

Signature:  \_\_\_\_\_ Date: \_\_\_\_\_

**Required Closed Building Conditions for Radon Testing**

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

Minnesota Department of Health, Indoor Air Unit, PO Box 64975, St. Paul, MN 55164  
651-201-4601, [health.indoorair@state.mn.us](mailto:health.indoorair@state.mn.us), [mn.gov/radon](http://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](https://mn.gov/radon).

If you have any questions or concerns, please contact:

# Client Authorizations & Communications

## Client and Facilitating Staff Member Contact Information

Client/Authorized Agent \_\_\_\_\_ phone \_\_\_\_\_

Onsite Supervisor \_\_\_\_\_ phone \_\_\_\_\_

Building/Dwelling Access \_\_\_\_\_ phone \_\_\_\_\_

HVAC Operations \_\_\_\_\_ phone \_\_\_\_\_

Other Contact/Title \_\_\_\_\_ phone \_\_\_\_\_

## Radon Testing Professional Contact 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 report data and incremental reports:

Name/Title \_\_\_\_\_ phone \_\_\_\_\_

Name/Title \_\_\_\_\_ phone \_\_\_\_\_

## Frequency of Reports

prior to testing      after each phase 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](mailto:health.indoorair@state.mn.us) | [www.health.state.mn.us](http://www.health.state.mn.us) | [mngov/radon](http://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 tests are met, as portrayed herein.

Client/Authorized Agent: \_\_\_\_\_

Signature:  \_\_\_\_\_ Date: \_\_\_\_\_

### Building On-Site Supervisor Commitment:

To the extent reasonably possible, I commit to helping ensure that building conditions required to achieve reliable radon tests are met, as portrayed herein, by accepting the following responsibilities:

1. **Prior Notifications:** Notices will be distributed to all tested and non-tested dwellings and posted in publicly accessible areas in a timely manner.
2. **Access:** Access will be provided to each location being tested within a building with intent to access all locations on the same day for both the event of placing testing devices and a second event for retrieving test devices.

On-Site Supervisor: \_\_\_\_\_

Signature:  \_\_\_\_\_ Date: \_\_\_\_\_

### Building Operations Staff Commitment:

To the extent reasonably possible, I commit to helping ensure that building conditions required to achieve reliable radon tests are met, as portrayed herein, by accepting the following responsibilities:

1. **Building Preparation:** I accept responsibility that, no later than 12 hours prior to testing, each building scheduled for testing will be reviewed for compliance with closed-building requirements.
2. **Compliance Verification:** I accept responsibility for taking actions that could include adjustments to HVAC units and repairs where completion is required no later than 12 hours prior to testing.

HVAC Operations Supervisor: \_\_\_\_\_

Signature:  \_\_\_\_\_ Date: \_\_\_\_\_



## Roosevelt Test Condition Summary

January 6-9 – Minneapolis, MN (Climate Zone 6)

|   | Annually                                      | During the Test                                |
|---|---|--|
| Outdoor Temperatures                                | Average = 46° F                               | Max. = 25° F<br>Min. = 5° F<br>Average = 13° F |
| Prevailing Operating Condition<br>(Heating/Cooling) | Heating – 50%<br>Cooling – 25%<br>Mixed – 25% | Heating – 100%<br>Cooling – 0%<br>Mixed – 0%   |
| Air Distribution Systems                            | Intermittent during summer                    | Active   |

\* - Note: Light snowfall was recorded at the very end of the testing period and winds were light.

### 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 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](https://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:
  - 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 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.