



Mankato Area Public Schools 2023 Short-Term Radon Testing Results

Radon is a naturally occurring colorless and odorless gas that can enter school buildings from the underlying soil and build up to levels that are unsafe. Pursuant to Minnesota State Statute 123B.571, school districts may do routine radon testing a minimum of every five years and after major HVAC renovation work. A total of 253 radon test kits were placed from January 23, 2023 to January 26, 2023 for a total short-term sampling period of three (3) days.

Below in Chart 1 are the results of the radon testing that was conducted in FYI 2022-2023. The U.S. Environmental Protection Agency (EPA) recommends additional investigation when a space measures 4.0 picocuries per liter (pCi/L) or higher. Radon levels in ten (10) samples were above the EPA action level of 4 pCi/L and test data is not yet fully adequate to make decisions whether to mitigate.

Follow up samples were gathered from February 13, 2023 to February 16, 2023 in those spaces that recorded over 4 pCi/L level. Those results are in Chart 2

CHART 1

| Short-Term Test - January 23, 2023 to January 26, 2023 | | Passing Sample | Passing Sample | Passing Sample | Samples Requiring Follow-up Testing | Follow-up Testing Results - Occupied Radon Level |
|--|---------------|----------------|----------------|----------------|-------------------------------------|--|
| Building Name | Total Samples | 0.0-1.9 pCi/L | 2.0-2.9 pCi/L | 3.0-3.9 pCi/L | ≥ 4 pCi/L | 3 day continuous sampling |
| East High School | 166 | 161 | 1 | 1 | 1 | 1 |
| Roosevelt Elementary | 37 | 7 | 1 | 20 | 9 | 8 |
| Rosa Parks Elementary | 50 | 50 | 0 | 0 | 0 | 0 |

Note: Two test kits were missing at the time of pick-up.

CHART 2 - (3 Day Continuous Monitoring)

| Short-Term Test - February 13, 2023 to February 16, 2023 | | Passing Sample | Passing Sample | Passing Sample | Samples Requiring Follow-up Testing | Follow-up Testing Results - Occupied Radon Level |
|--|---------------|----------------|----------------|----------------|-------------------------------------|--|
| Building Name | Total Samples | 0.0-1.9 pCi/L | 2.0-2.9 pCi/L | 3.0-3.9 pCi/L | ≥ 4 pCi/L | 3 day continuous sampling |
| East High School | 1 | 1 | 0 | 0 | 0 | |
| Roosevelt Elementary | 8 | 1 | 3 | 0 | 4 | |



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Mitigation Plan

- 1) Verify HVAC system is operating properly (fresh air dampers)
- 2) Operate HVAC 24/7
- 3) Repair/Replace old exhaust system in the crawl space
- 4) Seal wall opening from summer construction
- 5) Retest after the above have been completed