

Faribault Public Schools

2023- 24 Radon Testing Results
Lincoln & Nerstrand Elementary



INTRODUCTION

Radon is a colorless and odorless gas that comes from the soil. Exposure to radon over time can cause lung cancer. The U.S. Environmental Protection Agency (EPA) has set a target level of 4.0 pCi/L and to consider action at 2.0 pCi/L.

Faribault Public Schools conducted short-term radon testing to determine if occupants are exposed to elevated levels of radon. Radon testing was done according to ANSI/AARST MA-MFLB 2023.

TESTING

Radon testing was conducted at Lincoln and Nerstrand buildings from January 16, 2024 to January 18, 2024 using short-term radon kits. The radon test kits were analyzed by AirChek, Inc., MDH License #RL-00003, located at 1936 Butler Bridge Road, Mills River, NC 28759.

Follow-up testing was conducted using a Femto-Tech 510 continuous radon monitor (CRM) to measure radon levels at Lincoln Elementary in Room 108.

The purpose of the monitoring was to determine whether radon levels were within an acceptable range during typical occupied work hours.

The CRM was placed where prior short-term radon testing indicated levels above the recommended action level of 4.0 pCi/L. The ventilation system was operating in good condition at the time of placement and retrieval.

Testing was conducted by the following Minnesota Department of Health (MDH) licensed radon measurement professional:

Name	MDH License #	Signature
Craig English	RMEA - 00038	

All ground-contact rooms that are occupied or intended to be occupied were tested. In addition, tests were conducted in all rooms above ground-contact rooms that were not tested. On secondary floors, ten percent of rooms were tested with at least one test conducted on each story.

TEST CONDITIONS

Radon levels in a building can be influenced by many factors including weather, season, and occupancy patterns. Temporary conditions observed during the testing period may cause the test to not reflect the occupant's risk from radon.

TEST RESULTS

Lincoln Elementary
 510 Lincoln Ave NW
 Faribault, MN 55021

A total of 60 test kits were placed at Lincoln Elementary. The results for the 60 test kits ranged from below the level of detection (<0.3 pCi/L) to 4.2 pCi/L. The results indicated that radon levels were above the action level of 4.0 pCi/L. See Table 1 for a summary of the results:

TABLE 1: Lincoln Elementary School RANGE OF RESULTS				
	0.0 – 1.9 pCi/L	2.0 – 2.9 pCi/L	3.0 – 3.9 pCi/L	≥ 4 pCi/L
Number of Tests	44	14	1	1*
*Room 108: 4.2 pCi/L				

pCi/L: picocuries per liter

Fifteen test results were between 2.0 – 3.9 pCi/L. Locations of the test results are shown in the floor plan diagram location in Appendix A.

One test was at or above the action level of 4.0 pCi/L. The location of the elevated result is shown in the floor plan diagram location in Appendix A.

From January 29, 2024 to January 31, 2024, continuous radon monitoring was conducted in Room 108. A CRM was placed for approximately 48 hours, as recommended by MDH. The results of the CRM indicate that radon levels tested are below the action level during the workday. The hourly CRM data is provided in Appendix E.

Nerstrand Elementary
 205 2nd St South
 Nerstrand, MN 55053

A total of 23 test kits were placed at Nerstrand Elementary. The results for the 23 test kits ranged from below the level of detection (<0.3 pCi/L) to 3.5 pCi/L. The results indicated that radon levels were below the action level of 4.0 pCi/L. See Table 2 for a summary of the results:

TABLE 2: Nerstrand Elementary School RANGE OF RESULTS				
	0.0 – 1.9 pCi/L	2.0 – 2.9 pCi/L	3.0 – 3.9 pCi/L	≥ 4 pCi/L
Number of Tests	10	10	3	0
All below action level				

pCi/L: picocuries per liter

Thirteen test results were between 2.0 – 3.9 pCi/L. Locations of the test results are shown in the floor plan diagram location in Appendix A. All remaining results were less than 2.0 pCi/L.

QUALITY ASSURANCE & QUALITY CONTROL

Quality control measurements were conducted in compliance with ANSI/AARST MA-MFLB 2023.

RECOMMENDATIONS

The radon level in one (1) sample location at Lincoln Elementary School was above the EPA action level of 4.0 pCi/L. The test data is not yet fully adequate to make decisions whether to mitigate. Follow-up testing was conducted using a CRM for all sampling results above the action level. The results of the CRM indicate that radon levels throughout the rooms tested are below the action level during occupied work hours from 6 AM to 11 PM. The testing was performed during the heating season so the testing may be representative of “worst case” conditions. Please refer to the following MDH guidelines.

Test result is 4.0 pCi/L or greater:

- Fix the building if test results indicate occupants may be exposed to radon concentrations that meet or exceed the EPA action level of 4.0 pCi/L.
- Efforts to reduce radon concentrations are not complete until a retest provides 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 that concentrations meet or exceed the action level, conduct evaluations, corrections, and further testing under radon concentrations have been mitigated to below the action level.
- Retest every 2 years to ensure the system remains effective.

Test results between 2.0 and 4.0 pCi/L:

- Consider fixing the building if the test results indicate radon levels greater than half of the EPA action level.
- Tests conducted when heating systems are active both day and night are more likely to provide a clear characterization of potential radon hazards.

When to Retest:

- Retest every 5 years if no mitigation system is installed.
- Retest in conjunction with the sale of any new or existing building.
- Be certain to test again when any of the following circumstances occur:
 - A new addition is constructed or alterations for building rehab or reconfiguration occur;
 - A ground contact area not previously tested is occupied, or a building is newly occupied;
 - Heating and cooling systems are significantly altered, resulting in changes to air pressure or pressure relationships;
 - Ventilation is significantly altered by extensive weatherization, changes to mechanical systems or comparable procedures;
 - Significant openings to the soil occur due to:

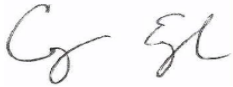
- Groundwater or slab surface water control systems that are altered or added (ex. sumps, perimeter drain tile, shower/tub retrofits) or,
- Natural settlement causing major cracks to develop.
- o Earthquakes, construction blasting, or formation of sink holes nearby; or
- o A radon mitigation system is altered, modified, or repaired.

RADON INFORMATION

Additional information on radon can be found on the Minnesota Department of Health's website at mn.gov/radon or by contacting them at 651-201-4601 or health.indoorair@state.mn.us.

Should you require additional information or have any questions regarding radon, please do not hesitate to contact me.

Sincerely,



Craig English
Faribault Public Schools
Health & Safety Manager
(507) 333- 6034

Appendix A

Floor Plan Diagram

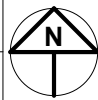


Lincoln Elementary

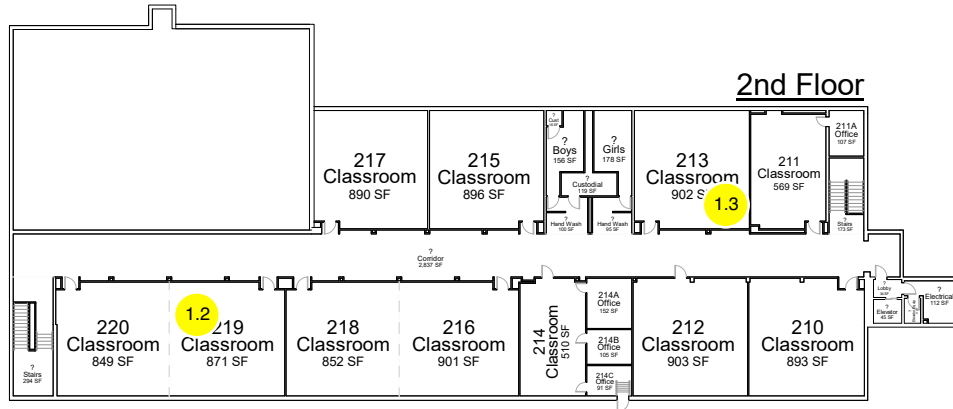
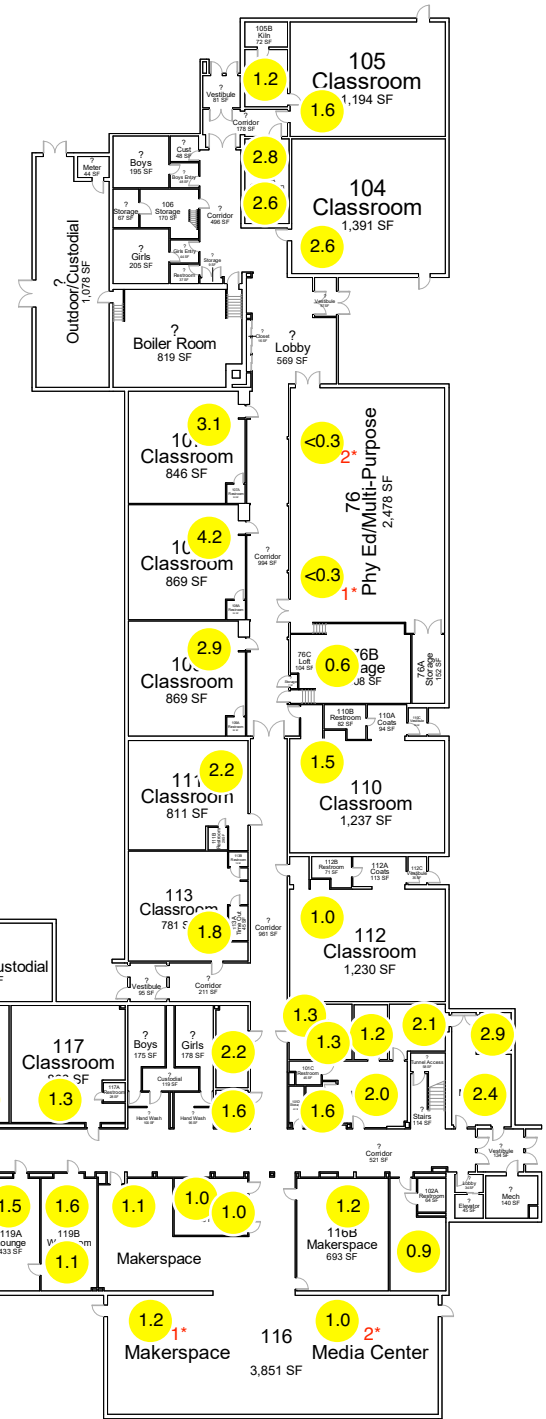
Assigned Rm Number-Name-Area

Date
6/29/2023

Scale
1" = 45'-0"



Radon Testing: 2023 / 24



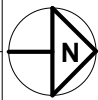
- RADON TESTING LOCATIONS

1st Floor

2nd Floor

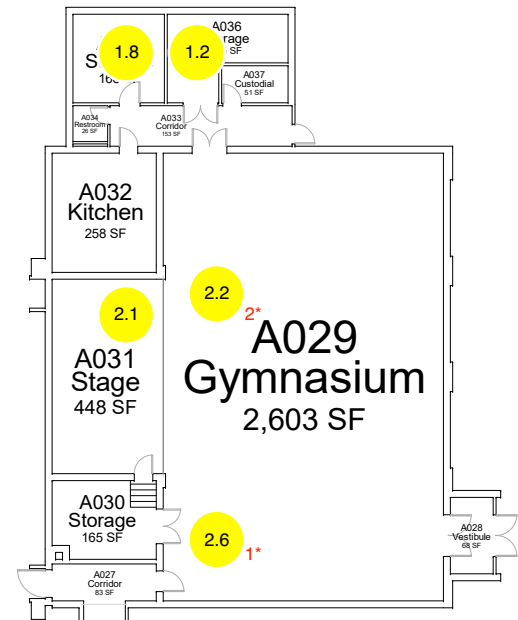
116 Makerspace 3,851 SF

116 Media Center

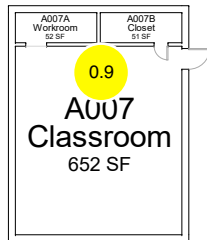
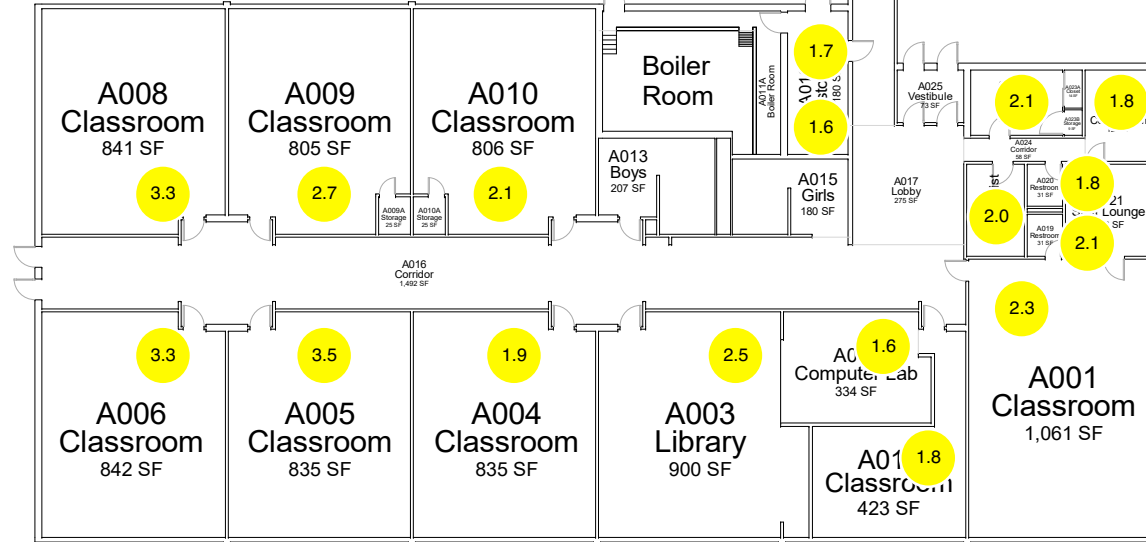


Radon Testing: 2023 / 24

 - RADON TESTING LOCATIONS



1st Floor

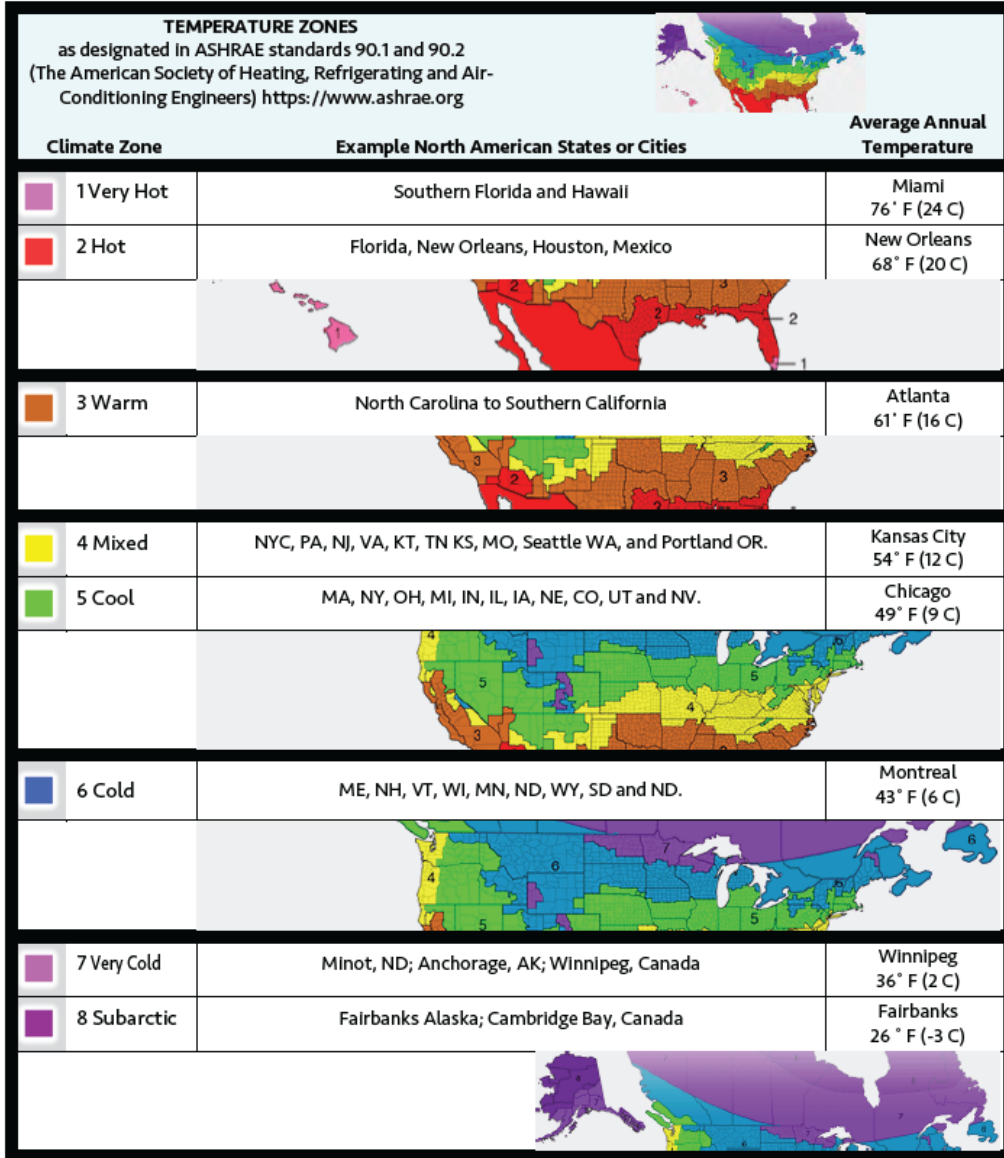


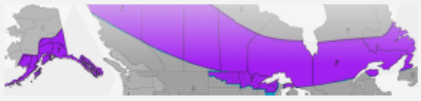
Appendix B

Test Conditions

Normal Occupied Building Conditions

Minnesota is in Temperature Zones 6 and 7. Across the state, the prevailing HVAC condition is heating. Radon testing is recommended during the heating season.

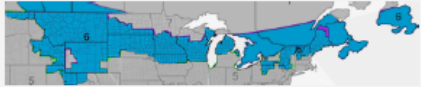


<p>Very Cold</p> <p>Climate Zone 7</p> <p>Includes many Canadian provinces, mountain tops, and utmost northern locations in the United States This data is based on Minot, ND</p>			
	<p align="center">24 Hour Averages</p> <p align="center">For dwellings and other 24 hour occupancies</p>		
<p>24 Hour</p> <p>7-Very cold Minot, ND Annual Avg</p>	<p>Annual Avg</p> <p>39</p>	<p>Sep Oct Nov Dec Jan Feb Mar Apr May Jun Jul Aug</p> <p>56 45 26 14 6 11 21 41 53 61 68 67</p>	
<p>Operating Condition</p>	<p align="center">Prevailing Annually</p>		
	<p>Heating Conditions</p>	<p>83%</p>	
	<p>Cooling Conditions</p>	<p>-</p>	
	<p>Mixed Conditions</p>	<p>16%</p>	
<p>Normal Operating Condition</p>	<ul style="list-style-type: none"> • Heating conditions • No variance in outdoor air ventilation 		
<p>Condition less likely to inhibit characterization of a radon hazard</p>	<ul style="list-style-type: none"> • Heating and air distribution systems active 		
<p align="center">Daytime Averages</p> <p align="center">For non-residential occupancies</p>			
<p>Daytime</p> <p>7-Very cold Minot, ND Annual Avg School Avg</p>	<p>Annual Avg</p> <p>45</p>	<p>School Avg</p> <p>36</p>	<p>Sep Oct Nov Dec Jan Feb Mar Apr May Jun Jul Aug</p> <p>63 51 31 19 11 16 26 47 59 67 75 74</p>
<p>Operating Condition</p>	<p align="center">Prevailing Annually</p>		<p align="center">School (prevailing across 9 months)</p>
	<p>Heating Conditions</p>	<p>75%</p>	<p>100%</p>
	<p>Cooling Conditions</p>	<p>-</p>	<p>-</p>
	<p>Mixed Conditions</p>	<p>25%</p>	<p>-</p>
<p>Normal Operating Condition</p>	<ul style="list-style-type: none"> • Heating conditions • No variance in outdoor air ventilation 		
<p>Condition less likely to inhibit characterization of a radon hazard</p>	<ul style="list-style-type: none"> • Heating and air distribution systems active 		

Some Cities in This Climate Zone

Note—Exact percentages will vary slightly depending upon location

- | | |
|-----------------|------------------|
| Caribou ME | Breckenridge, CO |
| Quebec, CA | Aspen, CO |
| Marquette MI | |
| Duluth MN | |
| Winnipeg, CA | |
| Grand Forks, ND | |
| Anchorage, AK | |

<p>Cold</p> <p>Climate Zone 6</p> <p>Includes portions of ME, NH, VT, WI, MN, ND, WY, SD, ND and Canada.</p> <p>This data is based on Minneapolis, MN</p>													
<p>24 Hour Averages</p> <p>For dwellings and other 24 hour occupancies</p>													
<p>24 Hour Annual Avg</p> <p>6 Cold Minneapolis, MN 45</p>		Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug
		61	50	33	19	13	18	31	46	59	68	73	71
		Prevailing Annually											
Operating Condition	Heating Conditions	75%											
	Cooling Conditions	-											
	Mixed Conditions	25%											
Normal Operating Condition		<ul style="list-style-type: none"> • Heating conditions • No variance in outdoor air ventilation 											
Condition less likely to inhibit characterization of a radon hazard		<ul style="list-style-type: none"> • Heating and air distribution systems active 											
<p>Daytime Averages</p> <p>For non-residential occupancies</p>													
Daytime Annual Avg School Avg		Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug
6 Cold Minneapolis, MN 50 41		66	55	37	23	17	23	35	51	64	73	78	76
		Prevailing Annually						School (prevailing across 9 months)					
Operating Condition	Heating Conditions	66%						88%					
	Cooling Conditions	16%						11%					
	Mixed Conditions	16%						-					
Normal Operating Condition		<ul style="list-style-type: none"> • Heating conditions • No variance in outdoor air ventilation 											
Condition less likely to inhibit characterization of a radon hazard		<ul style="list-style-type: none"> • Heating and air distribution systems active 											

Some Cities in This Climate Zone

Note—Exact percentages will vary slightly depending upon location

- Portland, ME
- Buffalo, NY
- Burlington, NH
- Milwaukee, WI
- Minneapolis, MN
- Bismarck, ND
- Pierre, SD
- Cheyenne, WY
- Billings, MT
- Helena, MT



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Weather History for Faribault, MN

Historical Weather Data for a Location and Date

SEARCH

Data is available up to January 17, 2024.

Interested in weather history? Access weather history data for dates going back to 1945! It's both useful and fun—whether you're planning a trip or just want to know the weather on a special date.

The *Old Farmer's Almanac* weather history tool provides access to weather reports from over 1,300 weather stations in cities across the United States and Canada, reporting on past temperatures, precipitation, snow, pressure, dew point, and wind speeds.

How do you use weather history? There are so many practices uses for business from developing



Looking forward? See the famous *Old Farmer's Almanac* [long-range weather predictions](#).

For the Faribault Municipal MN USA Weather Station

Temperature	
Minimum Temperature	-5.8 °F
Mean Temperature	-1.2 °F
Maximum Temperature	8.6 °F
Pressure and Dew Point	
Mean Sea Level Pressure	No data.
Mean Dew Point	-10.7 °F
Precipitation	
Total Precipitation Rain and/or melted snow reported during the day.	0.00 IN
Visibility	9.8 MI
Snow Depth Last report for the day if reported more than once.	No data.
Wind Speed and Gusts	

Maximum Sustained Wind Speed	17.26 MPH
Maximum Wind Gust	25.32 MPH

Weather data collected from the National Climatic Data Center *Global Surface Summary of Day*. Information from the NCDC may be incomplete. Not every station reports every day, and some stations never report certain values.

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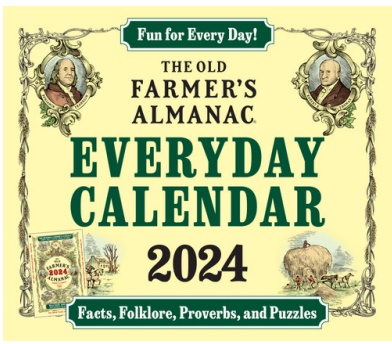
For the Faribault Municipal MN USA Weather Station

Temperature	
Minimum Temperature	-0.4 °F
Mean Temperature	1.6 °F
Maximum Temperature	5.0 °F
Pressure and Dew Point	
Mean Sea Level Pressure	No data.
Mean Dew Point	-6.6 °F
Precipitation	
Total Precipitation Rain and/or melted snow reported during the day.	0.00 IN
Visibility	10.0 MI
Snow Depth Last report for the day if reported more than once.	No data.
Wind Speed and Gusts	

Maximum Sustained Wind Speed	12.77 MPH
Maximum Wind Gust	18.30 MPH

Weather data collected from the National Climatic Data Center *Global Surface Summary of Day*. Information from the NCDC may be incomplete. Not every station reports every day, and some stations never report certain values.

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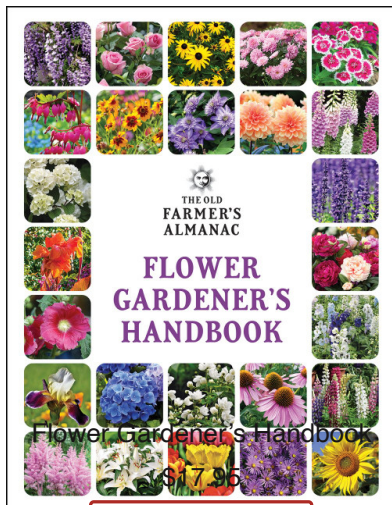
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Weather History for Faribault, MN

Historical Weather Data for a Location and Date

SEARCH

Data is available up to January 18, 2024.

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The Old Farmer's Almanac weather history tool provides access to weather reports from over 1,300 weather stations in cities across the United States and Canada, reporting on past temperatures, precipitation, snow, pressure, dew point, and wind speeds.

How do you use weather history? There are so many practices uses for business from developing informed business forecasts to understanding road and accident conditions. But also there are personal reasons; for example, knowing about typical weather is helpful for vacation travel, planning an outdoor event or wedding, and planning for outdoor activities such as sailing (think wind!).

Looking forward? See the famous *Old Farmer's Almanac* [long-range weather predictions](#).

For the Faribault Municipal MN USA Weather Station

Temperature	
Minimum Temperature	-4.0 °F
Mean Temperature	4.8 °F
Maximum Temperature	8.6 °F
Pressure and Dew Point	
Mean Sea Level Pressure	No data.
Mean Dew Point	-0.1 °F
Precipitation	
Total Precipitation Rain and/or melted snow reported during the day.	0.00 IN
Visibility	10.0 MI
Snow Depth Last report for the day if reported more than once.	No data.
Wind Speed and Gusts	
Mean Wind Speed	1.38 MPH

Maximum Sustained Wind Speed	4.72 MPH
Maximum Wind Gust	No data.

Weather data collected from the National Climatic Data Center *Global Surface Summary of Day*. Information from the NCDC may be incomplete. Not every station reports every day, and some stations never report certain values.

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Weather History for Faribault, MN

Historical Weather Data for a Location and Date



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for vacation travel, planning an outdoor event or wedding, and planning for outdoor activities such as sailing (think wind!).

Looking forward? See the famous *Old Farmer's Almanac* [long-range weather predictions](#).

For the Faribault Municipal MN USA Weather Station

Temperature	
Minimum Temperature	28.4 °F
Mean Temperature	34.5 °F
Maximum Temperature	50.0 °F
Pressure and Dew Point	

Mean Sea Level Pressure	No data.
Mean Dew Point	32.2 °F
Precipitation	
Total Precipitation Rain and/or melted snow reported during the day.	0.00 IN
Visibility	6.9 MI
Snow Depth Last report for the day if reported more than once.	No data.
Wind Speed and Gusts	

Mean Wind Speed	5.52 MPH
Maximum Sustained Wind Speed	12.77 MPH
Maximum Wind Gust	17.26 MPH

Weather data collected from the National Climatic Data Center *Global Surface Summary of Day*. Information from the NCDC may be incomplete. Not every station reports every day, and some stations never report certain values.

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Weather History for Faribault, MN

Historical Weather Data for a Location and Date



Data is available up to January 30, 2024.

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How do you use weather history? There are so many practices uses for business from developing informed business forecasts to understanding road and accident conditions.

for vacation travel, planning an outdoor event or wedding, and planning for outdoor activities such as sailing (think wind!).

Looking forward? See the famous *Old Farmer's Almanac* [long-range weather predictions](#).

For the Faribault Municipal MN USA Weather Station

Temperature	
Minimum Temperature	35.6 °F
Mean Temperature	37.8 °F
Maximum Temperature	41.0 °F
Pressure and Dew Point	

Mean Sea Level Pressure	No data.
Mean Dew Point	34.3 °F
Precipitation	
Total Precipitation Rain and/or melted snow reported during the day.	0.00 IN
Visibility	10.0 MI
Snow Depth Last report for the day if reported more than once.	No data.
Wind Speed and Gusts	

Mean Wind Speed	9.21 MPH
Maximum Sustained Wind Speed	12.77 MPH
Maximum Wind Gust	20.83 MPH

Weather data collected from the National Climatic Data Center *Global Surface Summary of Day*. Information from the NCDC may be incomplete. Not every station reports every day, and some stations never report certain values.

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Weather History for Faribault, MN

Historical Weather Data for a Location and Date



Data is available up to January 31, 2024.

Interested in weather history? Access weather history data for dates going back to 1945! It's both useful and fun—whether you're planning a trip or just want to know the weather on a special date.

The Old Farmer's Almanac weather history tool provides access to weather reports from over 1,300 weather stations in cities across the United States and Canada, reporting on past temperatures, precipitation, snow, pressure, dew point, and wind speeds.

How do you use weather history? There are so many practices uses for business from developing informed business forecasts to understanding road and accident conditions

helpful for vacation travel, planning an outdoor event or wedding, and planning for outdoor activities such as sailing (think wind!).

Looking forward? See the famous *Old Farmer's Almanac* [long-range weather predictions](#).

For the Faribault Municipal MN USA Weather Station

Temperature	
Minimum Temperature	30.2 °F
Mean Temperature	32.8 °F
Maximum Temperature	35.6 °F

Mean Sea Level Pressure	No data.
Mean Dew Point	31.8 °F
Precipitation	
Total Precipitation Rain and/or melted snow reported during the day.	0.00 IN
Visibility	6.0 MI
Snow Depth Last report for the day if reported more than once.	No data.
Wind Speed and Gusts	

Mean Wind Speed	7.13 MPH
Maximum Sustained Wind Speed	11.39 MPH
Maximum Wind Gust	No data.

Weather data collected from the National Climatic Data Center *Global Surface Summary of Day*. Information from the NCDC may be incomplete. Not every station reports every day, and some stations never report certain values.

THE OLD FARMER'S STORE

Faribault, MN 55021		Annual	1/16/2024	1/17/2024	1/18/2024
Outdoor Temperatures	Min. °F		-5.8°	-0.4°	-4°
	Avg. °F	45°	-1.2°	1.6°	4.8°
	Max. °F		8.6°	5°	8.6°
Operating Conditions	Heating (% year)	75%	100%	100%	100%
Operating Conditions	Cooling (% year)	0%	0%	0%	0%
Operating Conditions	Mixed (% year)	25%	0%	0%	0%
Prevailing Operating Condition	Heating/Cooling/Mixed	Heating	Heating	Heating	Heating
Ground Cover (snow)			Yes	Yes	Yes

Faribault, MN 55021		Annual	1/29/2024	1/30/2024	1/31/2024
Outdoor Temperatures	Min. °F		28.4°	35.6°	30.2°
	Avg. °F	45°	34.5°	37.8°	32.8°
	Max. °F		50°	41°	35.6°
Operating Conditions	Heating (% year)	75%	100%	100%	100%
Operating Conditions	Cooling (% year)	0%	0%	0%	0%
Operating Conditions	Mixed (% year)	25%	0%	0%	0%
Prevailing Operating Condition	Heating/Cooling/Mixed	Heating	Heating	Heating	Heating
Ground Cover (snow)			Partial	Partial	No

Appendix C

Quality Control Measurements

Duplicate Device Measurements and Averages				
School	Location	Test 1 (pCi/L)	Test 2 (pCi/L)	Average (pCi/L)
Lincoln Elementary	Room 129	2.3	1.7	2.0
Lincoln Elementary	Gym Office	1.8	1.3	1.6
Lincoln Elementary	116A Office	1.0	1.0	1.0
Lincoln Elementary	Conference Room	1.3	1.3	1.3
Lincoln Elementary	104 Office	2.8	2.6	2.7
Lincoln Elementary	119B Teacher Workroom	1.6	1.1	1.4
Nerstrand Elementary	Custodial Office	1.7	1.6	1.7
Nerstrand Elementary	A021 Staff Lounge	1.8	2.1	2.0

Lab-Transit Blanks					
Start Date	End Date	Device ID	Radon Concentration	Start Time	End Time
1/10/2024	1/17/2024	11729199	< 0.3	7:00 am	8:00 am
1/10/2024	1/17/2024	11729112	< 0.3	7:00 am	8:00 am
1/10/2024	1/17/2024	11729113	< 0.3	7:00 am	8:00 am

Spiked Detectors						
Start Date	End Date	Device ID	Measured Value (pCi/L)	Reference Value (pCi/L)	Start Time	End Time
1/19/2024	1/23/2024	11729179	51.2	49.5	9:00 am	9:00 am
1/19/2024	1/23/2024	11729178	56.2	49.5	9:00 am	9:00 am
1/19/2024	1/23/2024	11729171	58.3	49.5	9:00 am	9:00 am

Appendix D

Analytical Results

Radon test result report for:**FARIBAUT PUBLIC SCHOOLS
LINCOLN ELEMENTARY**

Kit #	Room Id	Started	Ended	pCi/L	Analyzed
11729191	101 OFFICE	2024-01-16 @ 8:00 am	2024-01-18 @ 10:00 am	2.0 ± 0.3	2024-01-19
11729189	101A OFFICE	2024-01-16 @ 8:00 am	2024-01-18 @ 10:00 am	1.6 ± 0.3	2024-01-19
11729160	104	2024-01-16 @ 9:00 am	2024-01-18 @ 10:00 am	2.6 ± 0.3	2024-01-19
11729152	105	2024-01-16 @ 9:00 am	2024-01-18 @ 10:00 am	1.6 ± 0.3	2024-01-19
11729138	105 OFFICE	2024-01-16 @ 9:00 am	2024-01-18 @ 10:00 am	1.2 ± 0.3	2024-01-19
11729132	107	2024-01-16 @ 9:00 am	2024-01-18 @ 10:00 am	3.1 ± 0.3	2024-01-19
11729131	108	2024-01-16 @ 9:00 am	2024-01-18 @ 10:00 am	4.2 ± 0.3	2024-01-19
11729129	109	2024-01-16 @ 8:00 am	2024-01-18 @ 10:00 am	2.9 ± 0.3	2024-01-19
11729128	110	2024-01-16 @ 8:00 am	2024-01-18 @ 10:00 am	1.5 ± 0.3	2024-01-19
11729127	111	2024-01-16 @ 8:00 am	2024-01-18 @ 10:00 am	2.2 ± 0.3	2024-01-19
11729119	112	2024-01-16 @ 8:00 am	2024-01-18 @ 10:00 am	1.0 ± 0.3	2024-01-19
11729124	113	2024-01-16 @ 8:00 am	2024-01-18 @ 10:00 am	1.8 ± 0.3	2024-01-19
11729123	114	2024-01-16 @ 8:00 am	2024-01-18 @ 10:00 am	2.2 ± 0.3	2024-01-19
11729121	115	2024-01-16 @ 8:00 am	2024-01-18 @ 10:00 am	1.6 ± 0.3	2024-01-19
11729198	116B	2024-01-16 @ 8:00 am	2024-01-18 @ 10:00 am	1.2 ± 0.3	2024-01-19
11729117	117	2024-01-16 @ 9:00 am	2024-01-18 @ 10:00 am	1.3 ± 0.3	2024-01-19
11729133	118	2024-01-16 @ 9:00 am	2024-01-18 @ 10:00 am	1.1 ± 0.3	2024-01-19
11729137	120	2024-01-16 @ 9:00 am	2024-01-18 @ 10:00 am	1.4 ± 0.3	2024-01-19
11729148	121	2024-01-16 @ 9:00 am	2024-01-18 @ 10:00 am	1.6 ± 0.3	2024-01-19
11729147	121A	2024-01-16 @ 9:00 am	2024-01-18 @ 10:00 am	1.9 ± 0.3	2024-01-19
11729139	121B	2024-01-16 @ 9:00 am	2024-01-18 @ 10:00 am	1.7 ± 0.3	2024-01-19
11729134	122	2024-01-16 @ 9:00 am	2024-01-18 @ 10:00 am	1.3 ± 0.3	2024-01-19
11729155	123	2024-01-16 @ 9:00 am	2024-01-18 @ 10:00 am	1.9 ± 0.3	2024-01-19
11729142	124	2024-01-16 @ 9:00 am	2024-01-18 @ 10:00 am	1.4 ± 0.3	2024-01-19
11729151	125	2024-01-16 @ 9:00 am	2024-01-18 @ 10:00 am	1.7 ± 0.3	2024-01-19
11729104	126	2024-01-16 @ 9:00 am	2024-01-18 @ 10:00 am	2.3 ± 0.3	2024-01-19
11729110	127	2024-01-16 @ 9:00 am	2024-01-18 @ 10:00 am	2.1 ± 0.3	2024-01-19
11729107	128	2024-01-16 @ 9:00 am	2024-01-18 @ 10:00 am	2.4 ± 0.3	2024-01-19
11729149	130	2024-01-16 @ 9:00 am	2024-01-18 @ 10:00 am	1.7 ± 0.3	2024-01-19
11729109	213	2024-01-16 @ 9:00 am	2024-01-18 @ 10:00 am	1.3 ± 0.3	2024-01-19
11729103	219	2024-01-16 @ 9:00 am	2024-01-18 @ 10:00 am	1.2 ± 0.3	2024-01-19
11729141	CUSTODIAL OFFICE	2024-01-16 @ 9:00 am	2024-01-18 @ 10:00 am	1.5 ± 0.3	2024-01-19
11729144	D104 OFFICE - 1	2024-01-16 @ 9:00 am	2024-01-18 @ 10:00 am	2.8 ± 0.3	2024-01-19
11729161	D104 OFFICE - 2	2024-01-16 @ 9:00 am	2024-01-18 @ 10:00 am	2.6 ± 0.3	2024-01-19
11729115	D116A OFFICE - 1	2024-01-16 @ 8:00 am	2024-01-18 @ 10:00 am	1.0 ± 0.3	2024-01-19
11729197	D116A OFFICE - 2	2024-01-16 @ 8:00 am	2024-01-18 @ 10:00 am	1.0 ± 0.3	2024-01-19
11729150	D129-1	2024-01-16 @ 9:00 am	2024-01-18 @ 10:00 am	2.3 ± 0.3	2024-01-19

Radon test result report for:**FARIBAUT PUBLIC SCHOOLS
LINCOLN ELEMENTARY**

Kit #	Room Id	Started	Ended	pCi/L	Analyzed
11729118	D129-2	2024-01-16 @ 9:00 am	2024-01-18 @ 10:00 am	1.7 ± 0.3	2024-01-19
11729200	DCONFERENCE ROOM 103 - 2	2024-01-16 @ 8:00 am	2024-01-18 @ 10:00 am	1.3 ± 0.3	2024-01-19
11729195	DCONFERENCE ROOM 103-1	2024-01-16 @ 8:00 am	2024-01-18 @ 10:00 am	1.3 ± 0.3	2024-01-19
11729153	DGYM OFFICE - 1	2024-01-16 @ 9:00 am	2024-01-18 @ 10:00 am	1.8 ± 0.3	2024-01-19
11729154	DGYM OFFICE - 2	2024-01-16 @ 9:00 am	2024-01-18 @ 10:00 am	1.3 ± 0.3	2024-01-19
11729125	DTEACHERS WORKROOM - 1	2024-01-16 @ 9:00 am	2024-01-18 @ 10:00 am	1.6 ± 0.3	2024-01-19
11729126	DTEACHERS WORKROOM - 2	2024-01-16 @ 9:00 am	2024-01-18 @ 10:00 am	1.1 ± 0.3	2024-01-19
11729186	F110	2024-01-16 @ 9:00 am	2024-01-18 @ 10:00 am	< 0.3	2024-01-19
11729185	F124	2024-01-16 @ 9:00 am	2024-01-18 @ 10:00 am	< 0.3	2024-01-19
11729143	FACULTY LOUNGE 119A	2024-01-16 @ 9:00 am	2024-01-18 @ 10:00 am	1.5 ± 0.3	2024-01-19
11729162	GYM - 1	2024-01-16 @ 9:00 am	2024-01-18 @ 10:00 am	1.1 ± 0.3	2024-01-19
11729145	GYM - 2	2024-01-16 @ 9:00 am	2024-01-18 @ 10:00 am	1.0 ± 0.3	2024-01-19
11729146	GYM - 3	2024-01-16 @ 9:00 am	2024-01-18 @ 10:00 am	1.3 ± 0.3	2024-01-19
11729140	KITCHEN OFFICE	2024-01-16 @ 9:00 am	2024-01-18 @ 10:00 am	0.7 ± 0.3	2024-01-19
11729120	MAIN OFFICE	2024-01-16 @ 8:00 am	2024-01-18 @ 10:00 am	2.4 ± 0.3	2024-01-19
11729188	MAKERSPACE	2024-01-16 @ 8:00 am	2024-01-18 @ 10:00 am	1.1 ± 0.3	2024-01-19
11729116	MEDIA CENTER - 1	2024-01-16 @ 8:00 am	2024-01-18 @ 10:00 am	1.2 ± 0.3	2024-01-19
11729122	MEDIA CENTER - 2	2024-01-16 @ 8:00 am	2024-01-18 @ 10:00 am	1.0 ± 0.3	2024-01-19
11729130	MULTI- PURPOSE ROOM - 2	2024-01-16 @ 9:00 am	2024-01-18 @ 10:00 am	< 0.3	2024-01-19
11729136	MULTI-PURPOSE ROOM -1	2024-01-16 @ 8:00 am	2024-01-18 @ 10:00 am	< 0.3	2024-01-19
11729196	NURSE 102	2024-01-16 @ 8:00 am	2024-01-18 @ 10:00 am	0.9 ± 0.3	2024-01-19
11729187	O126	2024-01-16 @ 9:00 am	2024-01-18 @ 10:00 am	< 0.3	2024-01-19
11729111	OFFICE 100	2024-01-16 @ 8:00 am	2024-01-18 @ 10:00 am	2.1 ± 0.3	2024-01-19
11729190	P101B OFFICE	2024-01-16 @ 8:00 am	2024-01-18 @ 10:00 am	1.2 ± 0.3	2024-01-19
11729114	PRINCIPAL OFFICE	2024-01-16 @ 8:00 am	2024-01-18 @ 10:00 am	2.9 ± 0.3	2024-01-19
11729135	STAGE	2024-01-16 @ 9:00 am	2024-01-18 @ 10:00 am	0.6 ± 0.3	2024-01-19

Radon test result report for:**FARIBAUT PUBLIC SCHOOLS
NERSTRAND ELEMENTARY**

Kit #	Room Id	Started	Ended	pCi/L	Analyzed
11729183	A001	2024-01-16 @ 10:00 am	2024-01-18 @ 11:00 am	2.3 ± 0.3	2024-01-19
11729167	A002	2024-01-16 @ 10:00 am	2024-01-18 @ 11:00 am	1.6 ± 0.3	2024-01-19
11729164	A003	2024-01-16 @ 10:00 am	2024-01-18 @ 11:00 am	2.5 ± 0.3	2024-01-19
11729180	A004	2024-01-16 @ 10:00 am	2024-01-18 @ 11:00 am	1.9 ± 0.3	2024-01-19
11729159	A005	2024-01-16 @ 10:00 am	2024-01-18 @ 11:00 am	3.5 ± 0.3	2024-01-19
11729175	A006	2024-01-16 @ 10:00 am	2024-01-18 @ 11:00 am	3.3 ± 0.3	2024-01-19
11729163	A007	2024-01-16 @ 10:00 am	2024-01-18 @ 11:00 am	0.9 ± 0.3	2024-01-19
11729174	A008	2024-01-16 @ 10:00 am	2024-01-18 @ 11:00 am	3.3 ± 0.3	2024-01-19
11729181	A009	2024-01-16 @ 10:00 am	2024-01-18 @ 11:00 am	2.7 ± 0.3	2024-01-19
11729172	A010	2024-01-16 @ 10:00 am	2024-01-18 @ 11:00 am	2.1 ± 0.3	2024-01-19
11729168	A014	2024-01-16 @ 10:00 am	2024-01-18 @ 11:00 am	1.8 ± 0.3	2024-01-19
11729176	A022	2024-01-16 @ 10:00 am	2024-01-18 @ 11:00 am	1.8 ± 0.3	2024-01-19
11729182	A023	2024-01-16 @ 10:00 am	2024-01-18 @ 11:00 am	2.1 ± 0.3	2024-01-19
11729166	A035	2024-01-16 @ 10:00 am	2024-01-18 @ 11:00 am	1.8 ± 0.3	2024-01-19
11729184	A036	2024-01-16 @ 10:00 am	2024-01-18 @ 11:00 am	1.2 ± 0.3	2024-01-19
11729177	DA021 - 1	2024-01-16 @ 10:00 am	2024-01-18 @ 11:00 am	1.8 ± 0.3	2024-01-19
11729173	DA021 - 2	2024-01-16 @ 10:00 am	2024-01-18 @ 11:00 am	2.1 ± 0.3	2024-01-19
11729194	DCUSTODIAL OFFICE - 1	2024-01-16 @ 10:00 am	2024-01-18 @ 11:00 am	1.7 ± 0.3	2024-01-19
11729193	DCUSTODIAL OFFICE - 2	2024-01-16 @ 10:00 am	2024-01-18 @ 11:00 am	1.6 ± 0.3	2024-01-19
11729105	FA003	2024-01-16 @ 10:00 am	2024-01-18 @ 11:00 am	< 0.3	2024-01-19
11729169	GYM - 1	2024-01-16 @ 10:00 am	2024-01-18 @ 11:00 am	2.6 ± 0.3	2024-01-19
11729170	GYM - 2	2024-01-16 @ 10:00 am	2024-01-18 @ 11:00 am	2.2 ± 0.3	2024-01-19
11729192	MAIN OFFICE	2024-01-16 @ 10:00 am	2024-01-18 @ 11:00 am	2.0 ± 0.3	2024-01-19
11729165	STAGE	2024-01-16 @ 10:00 am	2024-01-18 @ 11:00 am	2.1 ± 0.3	2024-01-19

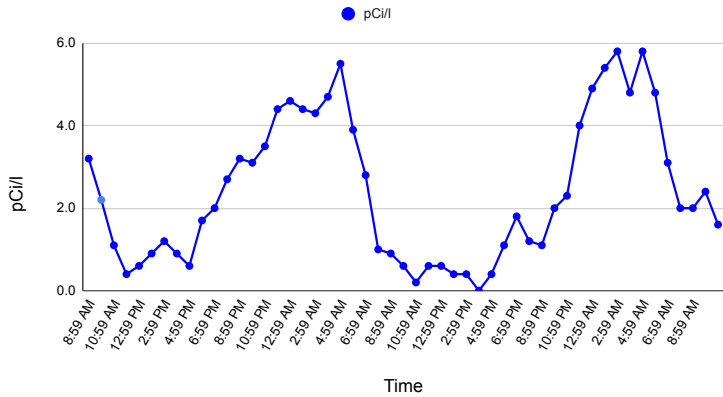
Appendix E

Continuous Radon Monitor Hourly Data

Room 108; Lincoln Elementary
 Femto- Tech: M# CRM-510, S.N # CRM5106103, Calibration Date: 10/25/2023

Date	Time	pCi/l	L RH B %	B/P Hg	Temp
29-Jan	8:59 AM	3.2	39	28.5	66
	9:59 AM	2.2	39	28.3	68
	10:59 AM	1.1	39	28.3	69
	11:59 AM	0.4	39	28.3	69
	12:59 PM	0.6	39	28.2	69
	1:59 PM	0.9	39	28.3	70
	2:59 PM	1.2	39	28.3	70
	3:59 PM	0.9	39	28.2	69
	4:59 PM	0.6	39	28.2	69
	5:59 PM	1.7	39	28.2	68
	6:59 PM	2.0	39	28.2	67
	7:59 PM	2.7	39	28.3	67
	8:59 PM	3.2	39	28.3	66
	9:59 PM	3.1	39	28.3	66
	10:59 PM	3.5	39	28.3	66
	11:59 PM	4.4	39	28.3	66
30-Jan	12:59 AM	4.6	39	28.3	66
	1:59 AM	4.4	39	28.3	65
	2:59 AM	4.3	39	28.3	65
	3:59 AM	4.7	39	28.3	65
	4:59 AM	5.5	39	28.3	65
	5:59 AM	3.9	39	28.3	66
	6:59 AM	2.8	39	28.3	66
	7:59 AM	1.0	39	28.5	67
	8:59 AM	0.9	39	28.5	68
	9:59 AM	0.6	39	28.5	69
	10:59 AM	0.2	38	28.5	69
	11:59 AM	0.6	38	28.6	70
	12:59 PM	0.6	39	28.6	70
	1:59 PM	0.4	38	28.6	71
	2:59 PM	0.4	38	28.6	70
	3:59 PM	0.0	38	28.6	70
	4:59 PM	0.4	38	28.6	70
	5:59 PM	1.1	39	28.5	69
	6:59 PM	1.8	39	28.5	69
	7:59 PM	1.2	38	28.5	69
	8:59 PM	1.1	38	28.5	69
	9:59 PM	2.0	39	28.5	68
	10:59 PM	2.3	38	28.5	67
	11:59 PM	4.0	39	28.5	67
31-Jan	12:59 AM	4.9	39	28.5	66
	1:59 AM	5.4	39	28.5	66
	2:59 AM	5.8	39	28.5	66
	3:59 AM	4.8	39	28.5	66
	4:59 AM	5.8	39	28.5	66
	5:59 AM	4.8	39	28.5	67
	6:59 AM	3.1	39	28.5	67
	7:59 AM	2.0	39	28.3	68
	8:59 AM	2.0	39	28.3	68

Room 108 CRM Hourly Levels



AVERAGE	2.4
WORKDAY AVG (6AM-11PM)	1.6
UNOCCUPIED AVG (11PM-6AM)	4.9

Appendix F

Test Notifications

Client Commitment to Compliance

Management Commitment:

To the extent reasonably possible, I, on behalf of Faribault Public Schools, commit to helping ensure that building conditions required to achieve reliable radon tests are met, as portrayed herein.

Client/Authorized Agent: Craig English

Signature: [Signature] Date: 1/16/2024

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: CLETIS HERING

Signature: [Signature] Date: 1/16/24

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: Josh DALLAGE

Signature: [Signature] Date: 1-16-24

Client Commitment to Compliance

Management Commitment:

To the extent reasonably possible, I, on behalf of Faribault Public Schools, commit to helping ensure that building conditions required to achieve reliable radon tests are met, as portrayed herein.

Client/Authorized Agent: Craig English

Signature: [Signature] Date: 1-16-2024

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: Bob T...

Signature: [Signature] Date: 1-16-24

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: Josh O'Allage

Signature: [Signature] Date: 1-16-2024

Client Commitment to Compliance

Management Commitment:

To the extent reasonably possible, I, on behalf of Faribault Public Schools, commit to helping ensure that building conditions required to achieve reliable radon tests are met, as portrayed herein.

Client/Authorized Agent: Craig English

Signature: [Signature] Date: 1-29-2024

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: CLETIS HETINGA

Signature: [Signature] Date: 1/31/24

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] Joshua DAVAGE

Signature: [Signature] Date: 1-29-2024

Sent 1-10-2024

Notice of Inspection for Building Occupants

A radon test is scheduled for:

Building: Lincoln Elementary

Test Start Date: 1/16/2024 Test End Date: 1/18/2024

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:

Craig English

Health & Safety Manager

Faribault Public Schools

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

8/18/2023, To obtain this information in a different format, call: 651-201-4601.

Sent 1-10-2024

Notice of Inspection for Facilitating Staff

A radon test is scheduled for:

Building: Lincoln Elementary

Test Start Date: 1/16/2024

Test End Date: 1/18/2024

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: Craig English

Signature: [Signature] Date: 1/18/2024

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
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: Craig English

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.

Sent 1-10-2024

Notice of Inspection for Building Occupants

A radon test is scheduled for:

Building: Nerstrand Elementary
Test Start Date: 1/16/2024 Test End Date: 1/18/2024

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:

Craig English
Health & Safety Manager
Faribault Public Schools

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

8/18/2023, To obtain this information in a different format, call: 651-201-4601.

Sent 1-10-2024

Notice of Inspection for Facilitating Staff

A radon test is scheduled for:

Building: Nerstrand Elementary

Test Start Date: 1/16/2024 Test End Date: 1/18/2024

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: Craig English

Signature: [Signature] Date: 1-18-2024

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
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: Craig English

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.

Sent 1-26-2024



Notice of Inspection for Building Occupants

A radon test is scheduled for:

Building: Lincoln Elementary

Test Start Date: 1/29/2024 Test End Date: 1/31/2024

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:

Craig English

Health & Safety Manager

Faribault Public Schools

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

8/18/2023, To obtain this information in a different format, call: 651-201-4601.

Sent 1-26-2024

Notice of Inspection for Facilitating Staff

A radon test is scheduled for:

Building: Lincoln Elementary

Test Start Date: 1/29/2024 Test End Date: 1/31/2024

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: Craig English

Signature: [Signature] Date: 1-31-2024

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
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: Craig English

Minnesota Department of Health, Indoor Air Unit, PO Box 64975, St. Paul, MN 55164
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8/17/2023, To obtain this information in a different format, call: 651-201-4601.

Appendix G

MDH School Radon Testing Reporting Form

School Radon Testing Reporting Form

According to Minnesota Statute 123B.571 subd. 3, a school district that has tested its school buildings for the presence of radon shall report the results of its tests to the Department of Health. Please use this form to submit information about the most recent round or cycle of testing conducted for each building.

Instructions

1. Complete one form for each building tested. In this case, a building is defined as an occupied facility with a unique address. This includes administrative buildings.
2. Include this form, raw data (e.g. laboratory report) and a building map.
3. Submit this form when all work is completed for a round of testing. This includes reporting to the school board, and follow-up testing and post-mitigation testing, if applicable.
4. Email information to health.indoorair@state.mn.us.

Contact Information

(Submitting this report)

Name Craig English

Mailing Address 1051 Faribault Road, Faribault MN 55021

Phone (507) 333-6034 Email cenglish@faribault.k12.mn.us

Person(s) Deploying or Retrieving Test Devices¹

Name Craig English Organization/Company Faribault Public Schools

Name _____ Organization/Company _____

Name _____ Organization/Company _____

School Board Reporting

Were all the results reported at a school board meeting? Yes No

¹ List all individuals that deployed (placed) or retrieved (picked up) test devices including initial, follow-up, and post-mitigation testing. Additional names can be added to notes at end of this form.

SCHOOL RADON TESTING REPORTING FORM

Initial Radon Testing

School Building Name Lincoln Elementary

School District & District Number Faribault Public Schools ISD #656

Building Address 510 Lincoln Ave NW, Faribault MN 55021

Test Kit Manufacturer AirChek Device name AirChek Short-term detectors

Date of Kit Retrieval (MM/DD/YY) 01/18/24 Length of Test (days) 2

How many rooms were tested? 50

Does the test period include weekends? Yes No

Does the test period include school breaks or holidays? Yes No

Was HVAC operating under occupied conditions? Yes No

Were test devices deployed in all occupied and intended to be occupied rooms in contact with the ground, and, if applicable, 10% of upper floor rooms? Yes No

Were valid measurements obtained in all occupied and intended to be occupied rooms in contact with the ground, and, if applicable, 10% of upper floor rooms?² Yes No

If no, were all results obtained under 2.0 pCi/L **and** were there sufficient valid measurements obtained that allowed for no further testing?³ Yes No

How many rooms had results ≥ 4 pCi/L? 1

² This includes rooms, offices, classrooms, and other general use areas. Ground contact means: 1) rooms that have floors or walls in contact with the ground; and 2) rooms that are closest to the ground over untested ground-contact locations, such as a crawl space, utility tunnel, parking garage and other non-habitable space that is in contact with ground. Intended to be occupied rooms are locations where there are plans to occupy rooms even though they are unoccupied at the time of the testing. In addition, if the building has upper floors, at least 10% of these rooms must be tested.

³ Section 6.2 of the ANSI/AARST standard allows for a specific small number of invalid measurements (e.g., test kits missing, damaged, etc) if all the valid test results were under 2.0 pCi/L. Review this section of the standard and evaluate how many rooms needed testing and how many had valid results. If there were too many invalid results, this means additional testing was required in these locations and answer this question as 'no'.

SCHOOL RADON TESTING REPORTING FORM

Follow-up Testing, Mitigation, & Post-Mitigation Testing

If one or more rooms tested ≥ 4 pCi/L, please answer the questions below.

How many rooms had follow-up testing? ¹ _____

Number of rooms with follow-up results:

≥ 4 pCi/L _____ < 4 pCi/L ¹ _____

Of the rooms that had test results ≥ 4 pCi/L, how many rooms were:

mitigated by diluting or pressurizing the soil or indoor air

(not active soil depressurization)? _____

mitigated by installing active soil depressurization system(s)? _____

reduced by adjusting the HVAC system? _____

Individual who installed mitigation

Name _____ Organization/Company _____

What was the cost of the installation and/or HVAC service work, to mitigate radon? _____

What is the known or anticipated annual operating cost of mitigation (estimate)? _____

After radon mitigation, how many rooms were re-tested?⁴ _____

Post-mitigation results (# of rooms):

≥ 4 pCi/L _____ < 4 pCi/L _____

Notes

Minnesota Department of Health | Environmental Health | Indoor Air Unit

health.indoorair@state.mn.us

www.health.state.mn.us

June 2021

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

⁴ The building must be tested, to verify reduction and ensure mitigation has not increased radon in rooms that used to be low.

School Radon Testing Reporting Form

According to Minnesota Statute 123B.571 subd. 3, a school district that has tested its school buildings for the presence of radon shall report the results of its tests to the Department of Health. Please use this form to submit information about the most recent round or cycle of testing conducted for each building.

Instructions

1. Complete one form for each building tested. In this case, a building is defined as an occupied facility with a unique address. This includes administrative buildings.
2. Include this form, raw data (e.g. laboratory report) and a building map.
3. Submit this form when all work is completed for a round of testing. This includes reporting to the school board, and follow-up testing and post-mitigation testing, if applicable.
4. Email information to health.indoorair@state.mn.us.

Contact Information

(Submitting this report)

Name Craig English

Mailing Address 1051 Faribault Road, Faribault MN 55021

Phone (507) 333-6034 Email cenglish@faribault.k12.mn.us

Person(s) Deploying or Retrieving Test Devices¹

Name Craig English Organization/Company Faribault Public Schools

Name _____ Organization/Company _____

Name _____ Organization/Company _____

School Board Reporting

Were all the results reported at a school board meeting? Yes No

¹ List all individuals that deployed (placed) or retrieved (picked up) test devices including initial, follow-up, and post-mitigation testing. Additional names can be added to notes at end of this form.

SCHOOL RADON TESTING REPORTING FORM

Initial Radon Testing

School Building Name Nerstrand Elementary

School District & District Number Faribault Public Schools ISD #656

Building Address 205 2nd St S, Faribault MN 55053

Test Kit Manufacturer AirChek Device name AirChek Short-term detectors

Date of Kit Retrieval (MM/DD/YY) 01/18/24 Length of Test (days) 2

How many rooms were tested? 20

Does the test period include weekends? Yes No

Does the test period include school breaks or holidays? Yes No

Was HVAC operating under occupied conditions? Yes No

Were test devices deployed in all occupied and intended to be occupied rooms in contact with the ground, and, if applicable, 10% of upper floor rooms? Yes No

Were valid measurements obtained in all occupied and intended to be occupied rooms in contact with the ground, and, if applicable, 10% of upper floor rooms?² Yes No

If no, were all results obtained under 2.0 pCi/L **and** were there sufficient valid measurements obtained that allowed for no further testing?³ Yes No

How many rooms had results ≥ 4 pCi/L? 0

² This includes rooms, offices, classrooms, and other general use areas. Ground contact means: 1) rooms that have floors or walls in contact with the ground; and 2) rooms that are closest to the ground over untested ground-contact locations, such as a crawl space, utility tunnel, parking garage and other non-habitable space that is in contact with ground. Intended to be occupied rooms are locations where there are plans to occupy rooms even though they are unoccupied at the time of the testing. In addition, if the building has upper floors, at least 10% of these rooms must be tested.

³ Section 6.2 of the ANSI/AARST standard allows for a specific small number of invalid measurements (e.g., test kits missing, damaged, etc) if all the valid test results were under 2.0 pCi/L. Review this section of the standard and evaluate how many rooms needed testing and how many had valid results. If there were too many invalid results, this means additional testing was required in these locations and answer this question as 'no'.

SCHOOL RADON TESTING REPORTING FORM

Follow-up Testing, Mitigation, & Post-Mitigation Testing

If one or more rooms tested ≥ 4 pCi/L, please answer the questions below.

How many rooms had follow-up testing? N/A

Number of rooms with follow-up results:

≥ 4 pCi/L _____ < 4 pCi/L _____

Of the rooms that had test results ≥ 4 pCi/L, how many rooms were:

mitigated by diluting or pressurizing the soil or indoor air

(not active soil depressurization)? _____

mitigated by installing active soil depressurization system(s)? _____

reduced by adjusting the HVAC system? _____

Individual who installed mitigation

Name _____ Organization/Company _____

What was the cost of the installation and/or HVAC service work, to mitigate radon? _____

What is the known or anticipated annual operating cost of mitigation (estimate)? _____

After radon mitigation, how many rooms were re-tested?⁴ _____

Post-mitigation results (# of rooms):

≥ 4 pCi/L _____ < 4 pCi/L _____

Notes

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⁴ The building must be tested, to verify reduction and ensure mitigation has not increased radon in rooms that used to be low.