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Radon Inspection Report

Measurement Information

Client Name
John Doe

Measurement Started
Mon,02/16/2023 09:00 AM

Measurement Ended
Mon,02/18/2023 09:00 AM

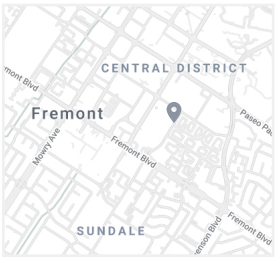
Inspection Duration
48 hour (Data No: 48)

Building Year
1981

Building Type
House

Room Type
Family Room

Floor
Basement

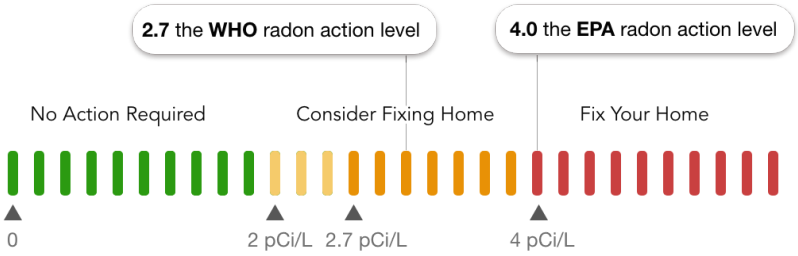


Measurement Location
345 Silverstar Dr
San Jose, MN 12345

Test Result: Pass

Overall Average
1.2 pCi/L

Radon Levels Guide



Device Information

Device S/N
RP201988834

Device Calibrated
01/20/2022

Tester Information

Tester Name
James Smith

NRPP Certification # (State-license #)
102256-RMP

Tester Email
james.s@inspection.com

Tester Phone
650-123-4567

Tester Address
1734 Radon Ave
San Carlos, MN 12345

Test-Company Information

Measurement Professional (NRPP-certified or State-licensed)
James Smith

NRPP Certification # (State-license #)
#102256-RMP

Email Address
james.s@inspection.com

Phone Number
650-123-4567

Test-Placement Field Technician
Carl Olson

Test-Placement Field Technician
NRPP Certification # (State-license #)
#102356-TPF

Email Address
carl.o@inspection.com

Phone Number
650-123-4235

Test-Retrieval Field Technician
Johnson Harris

Test-Retrieval Technician
NRPP Certification # (State-license #)
#102356-TRT

Email Address
johnson.h@inspection.com

Phone Number
650-148-4035

Device Information for Measurement

Manufacturer & Model
FTLab & RD200P

Test Location
Above Crawlspace

Test device placed simultaneously at this property

Duplicate for QA

Manufacturer & Model
FTLab & RD200P

Test Location
Above Crawlspace

Measurement Started
Mon,02/16/2023 09:00 AM

Measurement Ended
Mon,02/18/2023 09:00 AM

Overall Average Radon Concentration
1.2 pCi/L

Inspection Information

Wait Time
0 hour

Inspection Duration
48 hours

Measurement Started
Mon,02/16/2023 09:00 AM

Measurement Ended
Mon,02/18/2023 09:00 AM

Measured Radon Concentration Max
8.1 pCi/L

Measured Radon Concentration Min
4.3 pCi/L

Historical Radon Trend

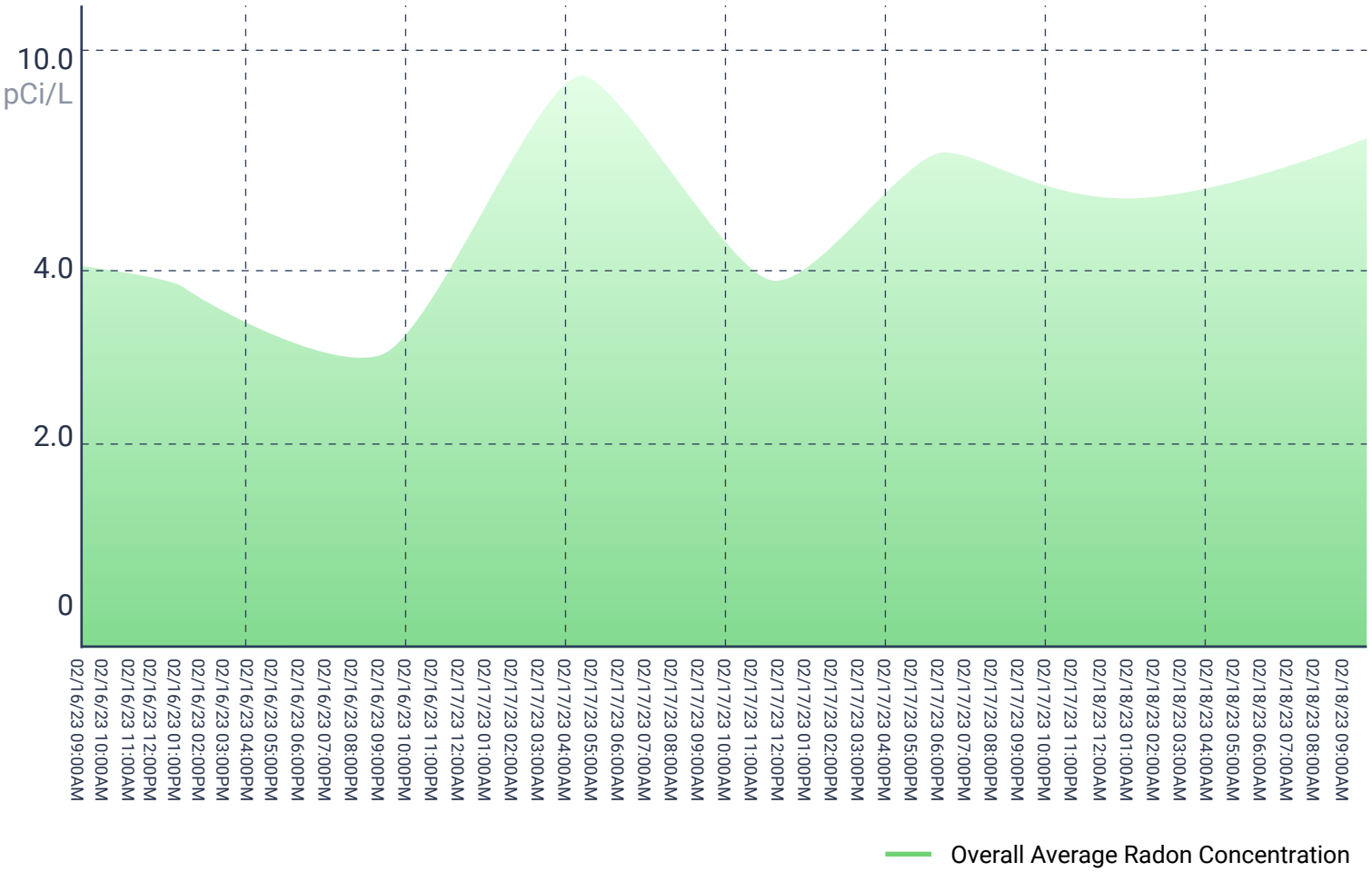


Table of Hourly Radon Measurements

Radon Concentration Average: 1.2 pCi/L

Timestamp	Radon Value	Temp(F)	RH(%)
02/16/23 09:00	0.5	68.0	37
02/16/23 10:00	0.4	68.0	37
02/16/23 11:00	0.5	68.0	40
02/16/23 12:00	0.2	68.0	40
02/16/23 13:00	0.3	68.0	40
02/16/23 14:00	0.7	68.0	40
02/16/23 15:00	0.7	68.0	40
02/16/23 16:00	0.7	68.0	40
02/16/23 17:00	0.6	68.0	40
02/16/23 18:00	1.2	68.0	40
02/16/23 19:00	0.5	68.0	40
02/16/23 20:00	0.7	68.0	40
02/16/23 21:00	1.1	68.0	40
02/16/23 22:00	0.4	68.0	40
02/16/23 23:00	0.3	68.0	40
02/17/23 24:00	0.4	68.0	40
02/17/23 01:00	0.9	68.0	40
02/17/23 02:00	0.8	68.0	40
02/17/23 03:00	1.2	68.0	40
02/17/23 04:00	0.5	68.0	40
02/17/23 05:00	1.2	68.0	40
02/17/23 06:00	1.1	68.0	40
02/17/23 07:00	0.8	68.0	40
02/17/23 08:00	0.8	68.0	40
02/17/23 09:00	1.1	68.0	40
02/17/23 10:00	0.4	68.0	40
02/17/23 11:00	0.3	68.0	40
02/17/23 12:00	0.4	68.0	40
02/17/23 13:00	0.9	68.0	40
02/17/23 14:00	0.8	68.0	40
02/17/23 15:00	1.2	68.0	40
02/17/23 16:00	0.5	68.0	40
02/17/23 17:00	0.5	68.0	37
02/17/23 18:00	0.4	68.0	37
02/17/23 19:00	0.5	68.0	40
02/17/23 20:00	0.1	68.0	40
02/17/23 21:00	0.3	68.0	40
02/17/23 22:00	0.7	68.0	40
02/17/23 23:00	0.7	68.0	40
02/18/23 24:00	0.7	68.0	40
02/18/23 01:00	0.6	68.0	40
02/18/23 02:00	1.2	68.0	40
02/18/23 03:00	0.5	68.0	40
02/18/23 04:00	0.7	68.0	40
02/18/23 05:00	1.1	68.0	40
02/18/23 06:00	0.4	68.0	40
02/18/23 07:00	0.3	68.0	40
02/18/23 08:00	0.4	68.0	40
02/18/23 09:00	0.9	68.0	40

Events

* Temperature and humidity can vary depending on environmental conditions.
* The test data was taken from a testing device approved by the National Radon Proficiency Program.

Conditions Observed During the Test

1. The property was occupied or vacant during the test period	**Yes**
2. Whether or not there are crawl space vents	**Yes**
2-1. Vents	**Closed**
2-2. Are they always open?	**No**
3. Window ac	**No**
3-1. Set to recirc only	**No**
4. ERV/HRV	**No**
4-1. Setting	**Off**
4-2. Intake free of obstacles/debris	**No**
5. Evaporating cooling system	**Yes**
5-1. Operating at time of test	**No**
5-2. Covered during test period	**Yes**
6. Sub-slab ducts	**Yes**
6-1. HVAC fan setting	**Off**
7. Closed-building conditions at time of placement	**Yes**
7-1. Closed-building conditions at time of retrieval	**No**
8. Devices placed in location as standards require	**Yes**
9. Indoor temperature at time of placement	**65 F**
10. Signs of interference with test	**Yes**
10-1. Explain	**High winds**
11. Any anomalies in data that may indicate deviation from testing protocol	**No**
12. Noninterference controls used	**Yes**
12-1. Explain methods used	**Radon-Test-In-Progress Notification**
13. Noninterference agreement given to responsible individual	**Yes**
13-1. Explain and efforts made to get form to individual	
14. Mitigation system present	**No**
14-1. Method	**Active**
15. Mitigation system appear to be operating	**No**
16. Any temporary mitigation strategies present	**Yes**
16-1. Explain	
17. A statement on the limits of the inspection	

Measurement Environment

Comments
Recommendations: (as per ANSI-AARST MAH)

Test result is 4.0 pCi/L or greater: YOUR RADON IS HIGH

- **FIX THE BUILDING.** Test results indicate occupants may be exposed to radon concentrations that meet or exceed the EPA action level of 4 pCi/L or greater.
- Efforts to reduce radon concentrations are not complete until a retest provides evidence of mitigation effectiveness.
    - Complete a short-term test between 24 hours and 30 days after installation of a mitigation system.
    - **Retest every 2 years or install a** continuous radon monitor to ensure the system remains effective.

Test result is between 2.0 and 4.0 pCi/L: YOUR RADON IS MODERATELY ELEVATED

- **CONSIDER FIXING THE BUILDING.** Test results indicate radon levels greater than half the EPA action level.
- The World Health Organization (WHO) recommends mitigation if levels are 2.7 (100 Bq/m³) or higher.
- Continuously monitoring the radon, especially when the heating system is active both day and night is more likely to provide a clear characterization of potential radon hazards.

Test result is less than 2.0 pCi/L: YOUR RADON IS LOW

- **NO FURTHER ACTION REQUIRED AT THIS TIME.** The average indoor radon level is estimated to be about 1.3 pCi/L; the normal outdoor air radon level is 0.4 pCi/L.
- Radon levels in a building can fluctuate due to weather conditions and other factors, including renovations and alterations, or changes in the HVAC system. For this reason, EPA recommends **retesting your home every 5 years** and to remediate if levels become elevated.

Times to Retest:

Retest in conjunction with any sale of new or existing buildings. In addition, be certain to test again or continuously monitor when any of the following circumstances occur:

- A ground contact area not previously tested is occupied, or a home is newly occupied.
- Ventilation is significantly altered by extensive weatherization, changes to mechanical systems or comparable procedures.
- A mitigation system is altered, modified, or repaired.
- 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.).
    - Natural settlement causing major cracks to develop.

State Radon Information

More information about radon is available by contacting the Department of Health at:

MINNESOTA

Phone: (651) 201-4601 • Website: mn.gov/radon • Email: health.indoorair@state.mn.us

Radon levels in a home can be influenced by many factors including weather, season, living conditions, and occupancy patterns. Temporary conditions observed during the testing period may cause the test to not reflect the client's risk from radon. The levels stated for this time period had the following situations present.