



CASCADE RADON, INC.

Testing, Mitigation,
Systems Design
CCB 180537 / CASCARI927C1

12839 NE Airport Way Bldg. 9
Portland, OR 97230
Phone: (503) 421-4813
Fax: (503) 281-6170
Office@CascadeRadon.com

Radon Survey Analysis
Job #18-C083L

for

Silver Falls School District
Silverton Middle School
c/o Lorin Stanley

property located at

714 Schlador St

Silverton OR 97381

August 24, 2018



**STATE OF OREGON
CERTIFIED
EMERGING SMALL BUSINESS**

Introduction

The following report documents a study of radon levels for the property located at 714 Schlador St Silverton OR 97381. The goal of this study is to determine indoor radon levels for the area indicated per client request. It is recommended that testing conform to AARST/ANSI protocols (MALB 2014) and EPA protocols for school testing. Client opted to perform testing outside of these protocols.

Protocols recommend test be maintained under “closed building” conditions for the entire school, this includes (windows closed and exterior doors shut immediately after entering and exiting), as well as normal indoor temperatures, for the duration of the testing period whether it is a diagnostic test or not. The H-VAC system for the building should be set to normal occupancy settings for the entirety of the testing period.

It should be noted that the building was not maintained under ‘closed-building’ conditions, which should have been in place 12 hours prior to test setup, and remained in effect for the remainder of the testing period. Due to AARST/ANSI protocols not being properly observed, it is recommend that follow-up testing be performed in a manner consistent with AARST/ANSI protocols to ensure accurate results.

Conclusions and Recommendations

Test was a “Short-Term” test, with minimum duration of 48 hours. Results take into account the minimum USEPA Protocol Average of 44 hours.

No mitigation action is recommended at this time. However, the test result is inconclusive due to closed-conditions not being properly observed. The USEPA recommends buildings be fixed if the radon level is 4.0 pCi/L or more, because there is no known safe level of exposure to radon, the US EPA also suggests individuals consider fixing buildings for radon levels between 2.0 pCi/L and 4.0 pCi/L.

This report represents the average radon concentration for the period that testing was and at the specific location within the building. The concentration of radon gas in indoor air can vary widely; it fluctuates daily, seasonally, and with weather conditions. Indoor radon levels may be affected by barometric pressure, strong winds, rain-soaked ground, snow cover, heating and A/C systems, building construction, open windows, and the like. For further confirmation of average, long-term radon levels, it is suggested that long-term, Alpha-Track type radon testing be performed.

NOTE: It is recommended that any building indicating low radon values be retested at least every 5 years.

Radon Level Measurements

Measurements of radon levels were made in the nurse’s office of the building. The building was assumed occupied during testing.

The measurement technique used a RadStar RS800 continuous electronic monitor: (2164)

Test End: 12:00 PM, 8/24/2018

Average radon reading for duration of test = 0.1 pCi/L
Highest level recorded: 0.3 pCi/L
Lowest level recorded: 0.0 pCi/L

Key:

pCi/L: Picocuries per liter – units of radon concentration.

Average (Avg): Cumulative average of the entire period since the test started.

Please contact me if you have any questions.

Thank you,

Danielle Weir
NRPP 108953 RT