



Testing, Mitigation, System Design
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Radon Survey Analysis Job # 19-C082S

for

David Douglas School District
West Powell Elementary School
c/o David Douglas

property located at

2921 SE 116th Ave

Portland, OR 97266

December 12, 2019



Introduction

The following report documents a study of radon levels for the property located at 2921 SE 116th Ave Portland OR 97266. The goal of this study is to determine indoor radon levels within the areas addressed by the mitigation system following system installation.

Analysis assumes that the building tested was maintained under “closed-building” conditions (windows closed and exterior doors shut immediately after entering and exiting) 12 hours prior to the start of testing, as well as normal indoor temperatures, for the duration of the testing period.

Conclusions and Recommendations

The radon mitigation system has been installed per applicable codes. The average “Short-Term” test levels are now below the EPA recommended “action level” of 4.0 pCi/L. Test performed was a “Short-Term” post-mitigation diagnostic test, with a duration of 48 hours.

No mitigation action is recommended at this time. The EPA recommends that in buildings with mitigation systems, mitigated areas undergo post-mitigation testing using a long-term, Alpha-Track type test for a duration of 12-months. Alpha-Track test kits are available for about \$25-30 each.

All conditions, warranties, and guarantees noted in the Contract are transferable to future owners of the same property. For further information regarding the system and long-term testing, post-mitigation radon testing, please refer to the Mitigation Contract or the document titled “About Your Radon System” provided to you.

Note: The EPA recommends that testing be conducted in areas that were mitigated at least every 2 years to ensure that the system remains effective.

Short-Term, Post-Mitigation Test Results:

Manometer Reading: 2.3 inches of water column pressure for room 14.

Manometer Reading: 2.5 inches of water column pressure for the custodian office.

Manometer Reading: 1.7 inches of water column pressure for the cafeteria office and charter office.

The building tested was assumed occupied during testing.

The measurement technique used (4) Sun Nuclear continuous electronic monitors: (6001, 2004, 6014, 6009).

Measurements of radon levels were made in the following areas:

Test End: 8:00 AM, 11/1/2019

Monitor ID 6001 – Charter Office

Average radon reading for duration of test = 0.6 pCi/L

Highest level recorded: 2.1 pCi/L

Lowest level recorded: 0.0 pCi/L

Monitor ID 2004 – Cafeteria Office

Average radon reading for duration of test = 0.7 pCi/L

Highest level recorded: 3.3 pCi/L

Lowest level recorded: 0.0 pCi/L

Monitor ID 6014 – Custodian Office

Average radon reading for duration of test = 0.6 pCi/L

Highest level recorded: 3.3 pCi/L

Lowest level recorded: 0.0 pCi/L

Monitor ID 2004 – Cafeteria Office

Average radon reading for duration of test = 0.7 pCi/L

Highest level recorded: 2.4 pCi/L

Lowest level recorded: 0.0 pCi/L

Monitor ID 6009 – Room 14

Average radon reading for duration of test = 0.5 pCi/L

Highest level recorded: 2.1 pCi/L

Lowest level recorded: 0.0 pCi/L

Key:

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

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

Please contact me if you have any questions.

Thank you,

Rachell Meyers
NRPP 110320 RT