



Testing, Mitigation, System Design
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Radon Survey Analysis Job# 20-C073W

for

Eddyville Charter School

property located at

1 Eddyville School Rd., Eddyville, OR 97343

December 10, 2020

Introduction

The following report documents a study of the temporary mitigation systems used to reduce the radon levels at 1 Eddyville School Rd. The goal of this study is to determine indoor radon levels in the previously tested rooms that resulted with elevated radon levels utilizing continuous radon monitors.

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 and during testing period as well as normal indoor temperatures.

Conclusions and Recommendations

The four rooms averaged a radon level for the 94 hours of testing **BELOW** the EPA Action Level of 4.0 pCi/L. Existing Sub-Soil Depressurization temporary systems are noted for the property being tested.

It is recommended that such action include installing permanent Sub-Soil Depressurization systems in place of the current temporary systems for the rooms tested.

The concentration of radon gas in indoor air can vary widely. It may fluctuate from day to day, week to week, and season to season. Indoor radon levels may be affected by barometric pressure, strong winds, rain-soaked ground, snow cover, heating and A/C systems, building construction, and the like.

Radon Level Measurements

Measurements of radon levels were made in room 48, 49, 55 and Music room of the building. The building was assumed occupied during testing. The measurement technique used 4 Rad Star continuous electronic monitor (02091, 02023, 02233 and 02051):

Test End: 11:05am, 12/04/2020

Average radon reading for duration of test 02091 / Room 48 = 0.8 pCi/L

Highest level recorded: 2.1 pCi/L

Lowest level recorded: 0.0 pCi/L

Average radon reading for duration of test 02023 / Room 49 = 0.5 pCi/L

Highest level recorded: 1.6 pCi/L

Lowest level recorded: 0.0 pCi/L

Average radon reading for duration of test 02233 / Room 55 = 0.7 pCi/L

Highest level recorded: 1.6 pCi/L

Lowest level recorded: 0.1 pCi/L

Average radon reading for duration of test 02421 / Music room = 0.8 pCi/L

Highest level recorded: 1.9 pCi/L

Lowest level recorded: 0.2 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 us if you have any questions.

Thank you,

Cascade Radon, Inc.

NEHA/NRPP# 106213RMT