

WISE STEPS INC.
SAFETY AND INDUSTRIAL HYGIENE CONSULTING
INDUSTRIAL HYGIENE REPORT

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TO: Vonnie Good, Risk Management

FROM: Kathy Ellis Senior Industrial Hygiene Consultant and
DeEtta Burrows, MSPH, CIH Wise Steps, Inc.

SUBJECT: McNary High School
LONG TERM RADON TESTING
Testing- March 13 - January 27, 2014

REPORT: February 7, 2014

PURPOSE

Radon monitoring using a long term Alpha-track radon gas detector was done in the Music Library and Room 41 in order to measure the average radon levels over approximately 10 months.

CONCLUSION

This testing starting March 13, 2013 and ending January 27, 2014 found lower levels of radon compared to the short term initial testing conducted in November 2012. The 10 month average radon level in the Music Library was 2.2 pCi/l and 3.6 pCi/l in the Classroom 41.

TESTING DATA

Music Library

The short term test in November 2012 test had an average radon level of 3.6 pCi/l.

The long term radon dosimeter was placed in the room collected an average radon level of 2.2 pCi/l.

Classroom 41

The short term test in November 2012 test had an average radon level of 7.5 pCi/l.

The long term radon dosimeter was placed in the classroom collected an average radon level of 3.6 pCi/l.

TEST MEDIA and METHOD

The individual RSSI Alpha-track radon gas detectors were placed approximately 4 feet above the floor and away from exterior walls. It were secured in place and left untouched for 10 months.

The alpha – track radon gas detector contains a detector element, called a foil. When radon atoms decay inside the detector, they release alpha particles. If the alpha particles strike the foil, they make microscopic tracks in the surface of the foil.

When the detector is analyzed, the foil is chemically treated to enlarge the alpha tracks, which are counted on an automated system. The average radon level is calculated from the number of tracks and the number of days the detector was exposed. This level is reported in picocuries per liter (pCi/L).

Radon levels vary in daily and seasonal cycles, and in response to weather conditions and ventilation patterns. For these reasons, it is preferable to make the test period as long as possible. The longer the test, the more reliable the prediction of future radon exposure and health risk.

Any level of radon creates a risk of lung cancer. The US EPA recommends that, to reduce the risk of lung cancer, corrective action be taken when radon is above the action level of 4 pCi/L.

TEST DATA SUMMARY




6312 West Carlton Street
Morton Grove, IL 60053-2723
847-965-1999
Fax 847-965-1997

February 07, 2014


WISE STEPS
KATHY ELLIS
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USA

Alpha Track Test Results

| Detector Number | pCi/L | Test Location | Test Address | Start Date | End Date | Note* |
|------------------|----------|--------------------------|--|------------|---------------|-------|
| 264823 | 2.2 ± 3% | 1st floor or grade level | MCNARY MUSIC LIBRARY SALEM, OR 97303 | 3/13/2013 | 1/27/2014 | |
| Analyzed By: | | |  Jeremy Kieser | 02/06/2014 | Analysis Date | |
| ***END REPORT*** | | | | | | |

* 1-Broken Seal, 2-Damaged Filter, 3-Loose Test Material, 4-Missing Test Material, 5-Missing End Date, 6-Missing Start Date, 7-Less Than 14 Days, 8-Past Expiration Date, 9-Missing Both Dates, NA-No applicable notes

These results relate to the detector as received by RSSI.
Report shall not be reproduced except in its entirety without the approval of RSSI.
Customer Number: 0979

| Detector Number | pCi/L | Test Location | Test Address | Start Date | End Date | Note* |
|------------------|----------|---------------------------------------|---|------------|---------------|-------|
| 264807 | 5.3 ± 2% | 1st floor or grade level CLASSROOM | FAYE WRIGHT SALEM, OR 97306 | 4/2/2013 | 1/27/2014 | |
| 264811 | 4.5 ± 2% | 1st floor or grade level | LIBERTY ROOM 22 SALEM, OR 97306 | 3/13/2013 | 1/27/2014 | |
| 264814 | 3.8 ± 3% | 1st floor or grade level | LIBERTY ROOM 21 SALEM, OR 97306 | 3/13/2013 | 1/27/2014 | |
| 264815 | 2.5 ± 3% | 1st floor or grade level | LIBERTY ROOM 20 SALEM, OR 97306 | 3/13/2013 | 1/27/2014 | |
| 264822 | 2.7 ± 3% | 1st floor or grade level | ENGELWOOD MUSIC SALEM, OR 97301 | 3/13/2013 | 1/27/2014 | |
| 264824 | 3.6 ± 3% | 1st floor or grade level OFFICE | MCNARY ROOM 41 SALEM, OR 97303 | 3/13/2013 | 1/27/2014 | |
| 264825 | 4.6 ± 2% | 1st floor or grade level | CHAPMAN HILL SALEM, OR 97304 | 3/13/2013 | 1/27/2014 | |
| Analyzed By: | | |  | | 02/07/ 2014 | |
| | | | Jeremy Kieser | | Analysis Date | |
| ***END REPORT*** | | | | | | |