

INDUSTRIAL HYGIENE REPORT

RADON TESTING REPORT

Bethel School

Report to: Vonnie B. Good, EHS Salem Keizer School District

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On-site: March 20-23, 2017

Report: April 7, 2017

PURPOSE

Radon monitoring was done to measure the background levels in classrooms and work rooms that are in contact with the ground or below ground level as a follow up after radon remediation engineering controls have been in place.

CONCLUSION and RECOMMENDATION

All tested locations had low levels of radon.

TESTING

Radon testing was conducted using protocols recommended by the Oregon Health Authority per ORS 332.166-.167. Radon Air-Chek short-term test devices were used in the rooms by suspending the device in each room. The testing occurred from March 20-23, 2017, during normal and routine school ventilation system operation, as well as with the radon mitigation system in operation.

Quality assurance testing was also conducted by utilizing blank, duplicate, and spiked samples per the recommendations found in ORS 332.166-.167.

EPA RADON GUIDELINES

The EPA has set an Action Level of 4.0 pCi/L (picoCuries per liter) for schools. If classrooms or buildings have radon levels at or above 4.0 pCi/L, EPA recommends that schools take action to reduce the level. These actions include:

Step 1 If your result is 4.0 pCi/L or higher take a follow-up test (Step 2) to be sure.

Step 2. Follow up with either a long-term test or a second short-term test.

The World Health Organization has set their action level at 2.7 pCi/L. Salem Keizer School District has determined that 2.7 pCi/L is a target level where retesting should be done.

CONTROL OF RADON LEVELS IN SCHOOLS

The major control mechanism for lowering radon levels within school buildings is the use of dilution ventilation. If the amount of outside air delivered into a building increases, the radon levels should decrease.

Sample Data Attached

Radon test result report for:

SK

BETHEL

Kit #	Room Id	Started	Ended	pCi/L	Analyzed
7854774	ADMIN OFFICE	2017-03-20 @ 11:00 am	2017-03-23 @ 12:00 pm	1.5 ± 0.2	2017-03-24
7854778	CHECK IN 1	2017-03-20 @ 11:00 am	2017-03-23 @ 12:00 pm	< 0.3	2017-03-24
7854772	GRANT COORD OFFI	2017-03-20 @ 11:00 am	2017-03-23 @ 12:00 pm	1.8 ± 0.2	2017-03-24
7854771	KITCHEN	2017-03-20 @ 11:00 am	2017-03-23 @ 12:00 pm	1.5 ± 0.2	2017-03-24
7854777	LAUNDRY ROOM	2017-03-20 @ 11:00 am	2017-03-23 @ 12:00 pm	1.3 ± 0.2	2017-03-24
7854773	RM 1	2017-03-20 @ 11:00 am	2017-03-23 @ 12:00 pm	2.0 ± 0.2	2017-03-24
7854776	RM 2	2017-03-20 @ 11:00 am	2017-03-23 @ 12:00 pm	1.5 ± 0.2	2017-03-24
7854775	RM 2	2017-03-20 @ 11:00 am	2017-03-23 @ 12:00 pm	1.8 ± 0.2	2017-03-24
