

INDUSTRIAL HYGIENE REPORT

RADON TESTING REPORT

Sprague High School

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

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On-site: January 5–8, 2016

Report: January 13, 2016

PURPOSE

Radon monitoring was done to measure the background levels in all classrooms 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 classrooms had very low to non-detectable levels of radon. Two test locations were above Salem Keizer School District recommended level of 2.7 pCi/L. These rooms were 116 @3.3 pCi/L, and 123 @3.1 pCi/L.

It is recommended that the operation of the ventilation systems for these two classrooms should be checked to make sure that the amount of outdoor air supplied has not been shut off. If possible increase the amount of outdoor air to these rooms, then retest these rooms for radon levels.

TESTING

Radon Air-Chek short-term test devices were used in the rooms by suspending the device in each room. The testing occurred from January 5-8, 2016, during normal and routine school ventilation system operation, as well as with the radon mitigation system in operation.

EPA RADON GUIDELINES

Salem Keizer School District has determined that 2.7 pCi/L is a target level where retesting should be done.

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:

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. A subslab depressurization system was installed in in this school.

Sample Data Attached

Radon test result report for:

**SK
SPRAGUE**

Kit #	Room Id	Started	Ended	pCi/L	Analyzed
4925909	1	2016-01-05 @ 10:00 am	2016-01-08 @ 1:00 pm	1.8 ± 0.3	2016-01-12
4925914	10	2016-01-05 @ 10:00 am	2016-01-08 @ 1:00 pm	1.4 ± 0.3	2016-01-12
4925915	11	2016-01-05 @ 10:00 am	2016-01-08 @ 1:00 pm	1.2 ± 0.3	2016-01-12
4925901	116	2016-01-05 @ 10:00 am	2016-01-08 @ 1:00 pm	3.3 ± 0.4	2016-01-12
4925904	117	2016-01-05 @ 10:00 am	2016-01-08 @ 1:00 pm	2.4 ± 0.3	2016-01-12
4925902	118	2016-01-05 @ 10:00 am	2016-01-08 @ 1:00 pm	2.6 ± 0.4	2016-01-12
4925903	119	2016-01-05 @ 10:00 am	2016-01-08 @ 1:00 pm	2.5 ± 0.4	2016-01-12
4925916	12	2016-01-05 @ 10:00 am	2016-01-08 @ 1:00 pm	1.6 ± 0.3	2016-01-12
4925906	121	2016-01-05 @ 10:00 am	2016-01-08 @ 1:00 pm	2.1 ± 0.3	2016-01-12
4925905	122	2016-01-05 @ 10:00 am	2016-01-08 @ 1:00 pm	2.2 ± 0.3	2016-01-12
4925907	123	2016-01-05 @ 10:00 am	2016-01-08 @ 1:00 pm	3.1 ± 0.4	2016-01-12
4925908	124	2016-01-05 @ 10:00 am	2016-01-08 @ 1:00 pm	2.8 ± 0.4	2016-01-12
4925917	14	2016-01-05 @ 10:00 am	2016-01-08 @ 1:00 pm	1.2 ± 0.3	2016-01-12
4925918	15	2016-01-05 @ 10:00 am	2016-01-08 @ 1:00 pm	0.7 ± 0.3	2016-01-12
4925910	2	2016-01-05 @ 10:00 am	2016-01-08 @ 1:00 pm	1.2 ± 0.3	2016-01-12
4925911	4	2016-01-05 @ 10:00 am	2016-01-08 @ 1:00 pm	1.4 ± 0.3	2016-01-12
4925912	6	2016-01-05 @ 10:00 am	2016-01-08 @ 1:00 pm	1.3 ± 0.3	2016-01-12
4925913	8	2016-01-05 @ 10:00 am	2016-01-08 @ 1:00 pm	1.6 ± 0.3	2016-01-12