



November 6, 2017

Casey Waletich
Executive Director of Facilities, Safety, and Operations
Hillsboro School District
4901 SE Witch Hazel Road
Hillsboro, Oregon 97123

Via email: waleticc@hsd.k12.or.us

Regarding: District Wide Radon Testing
Eastwood Elementary School
2100 NE Lincoln Street
Hillsboro, Oregon
PBS Project 23440.024, Phase 0002

Dear Mr. Waletich:

From October 24 to October 27, 2017, PBS Engineering and Environmental Inc. (PBS) performed short-term radon testing at Eastwood Elementary School located at 2100 NE Lincoln Street in Hillsboro, Oregon

The Environmental Protection Agency (EPA) and Oregon Health Authority (OHA) recommend that buildings be tested for radon and that any radon concentrations be maintained below 4.0 picocuries per liter (pCi/L) of air. PBS used Air Chek, Inc. brand single-use, short-term radon test kits to measure radon levels in frequently-occupied rooms that are in contact with the ground or above unoccupied basements or crawlspaces.

Laboratory results indicate all short-term radon tests at Eastwood Elementary School were below 4.0 pCi/L.

See the attached Laboratory Analysis Report for more details.

In addition to the EPA recommendation that radon concentrations not exceed 4.0 pCi/L, OHA recommends the following steps be conducted based on the results of a room's initial short-term test:

- **If the result is less than 2.0 pCi/L**, school districts are required to test again every 10 years, per Oregon Revised Statute 332.166-167.
- **If the result is between 2.0 pCi/L and 4.0 pCi/L**, consider fixing (i.e., lowering) the radon in that room.
- **If the result is from 4.0 pCi/L to 8.0 pCi/L**, perform a follow-up measurement of that room using a long-term test. This test should be conducted over as much of a nine-month school year as possible, when the room is likely to be occupied. If that result is equal to or greater than 4.0 pCi/L, the radon in the room should be fixed (i.e., lowered).
- **If the initial short-term test result is equal to or greater than 8.0 pCi/L**, conduct a second short-term test and average its result with the initial short-term test result. If the average of the two is equal to or greater than 4.0 pCi/L, radon in the room should be fixed (i.e., lowered).

Note: A great difference in the results of the short-term tests may indicate a flaw in the testing process. Investigate and consider retesting. In situations where one of the test results is equal to or greater than 4.0 pCi/L: If the higher result is two or more times the lower result, repeat the test.

LIMITATIONS OF SCOPE

This study was limited to the tests and locations as previously indicated. The site as a whole may have other environmental concerns that will not be characterized by this study. The findings and conclusions of this work are not scientific certainties, but probabilities based on professional judgment concerning the significance of the data gathered during the course of this investigation. PBS is not able to represent conditions on the site or adjoining sites beyond those detected or observed by PBS.

Please feel free to contact me at 503-417-7694 or chris.boyce@pbsusa.com with any questions or comments.

Sincerely,



Chris Boyce
Project Manager

Attachment: AirChek, Inc Laboratory Analysis Report

CB::bmp

Radon test result report for:**EASTWOOD
MAIN**

Kit #	Room Id	Started	Ended	pCi/L	Analyzed
7956740	COUNSELOR	2017-10-24 @ 12:00 pm	2017-10-27 @ 12:00 pm	0.7 ± 0.3	2017-10-30
7956739	GR 1&2 ACTIVITY	2017-10-24 @ 12:00 pm	2017-10-27 @ 12:00 pm	0.8 ± 0.3	2017-10-30
7956725	GR 3&4 ACTIVITY	2017-10-24 @ 12:00 pm	2017-10-27 @ 11:00 am	1.0 ± 0.3	2017-10-30
7956711	GR 5&6 ACTIVITY	2017-10-24 @ 12:00 pm	2017-10-27 @ 11:00 am	0.5 ± 0.2	2017-10-30
7956733	GRADE 1 NE	2017-10-24 @ 12:00 pm	2017-10-27 @ 12:00 pm	0.8 ± 0.2	2017-10-30
7956737	GRADE 1 NW	2017-10-24 @ 12:00 pm	2017-10-27 @ 12:00 pm	1.0 ± 0.3	2017-10-30
7956738	GRADE 1 OFFICE	2017-10-24 @ 12:00 pm	2017-10-27 @ 12:00 pm	0.8 ± 0.3	2017-10-30
7956734	GRADE 1 SE	2017-10-24 @ 12:00 pm	2017-10-27 @ 12:00 pm	0.8 ± 0.3	2017-10-30
7956724	GRADE 2 NE	2017-10-24 @ 12:00 pm	2017-10-27 @ 11:00 am	< 0.3	2017-10-30
7956730	GRADE 2 OFF DUP	2017-10-24 @ 12:00 pm	2017-10-27 @ 11:00 am	1.1 ± 0.3	2017-10-30
7956732	GRADE 2 OFFICE	2017-10-24 @ 12:00 pm	2017-10-27 @ 11:00 am	0.9 ± 0.3	2017-10-30
7956731	GRADE 2 SE	2017-10-24 @ 12:00 pm	2017-10-27 @ 11:00 am	< 0.3	2017-10-30
7956723	GRADE 2 SW	2017-10-24 @ 12:00 pm	2017-10-27 @ 11:00 am	0.7 ± 0.3	2017-10-30
7956729	GRADE 3 NE	2017-10-24 @ 12:00 pm	2017-10-27 @ 11:00 am	0.9 ± 0.3	2017-10-30
7956726	GRADE 3 OFFICE	2017-10-24 @ 12:00 pm	2017-10-27 @ 11:00 am	1.1 ± 0.3	2017-10-30
7956728	GRADE 3 SE	2017-10-24 @ 12:00 pm	2017-10-27 @ 11:00 am	0.8 ± 0.3	2017-10-30
7956727	GRADE 3 SW	2017-10-24 @ 12:00 pm	2017-10-27 @ 11:00 am	0.8 ± 0.2	2017-10-30
7956720	GRADE 4 NW	2017-10-24 @ 12:00 pm	2017-10-27 @ 11:00 am	0.9 ± 0.2	2017-10-30
7956722	GRADE 4 OFFICE	2017-10-24 @ 12:00 pm	2017-10-27 @ 11:00 am	0.7 ± 0.2	2017-10-30
7956718	GRADE 4 SE	2017-10-24 @ 12:00 pm	2017-10-27 @ 11:00 am	0.8 ± 0.3	2017-10-30
7956712	GRADE 4 SE DUP	2017-10-24 @ 12:00 pm	2017-10-27 @ 11:00 am	0.8 ± 0.3	2017-10-30
7956719	GRADE 4 SW	2017-10-24 @ 12:00 pm	2017-10-27 @ 11:00 am	0.9 ± 0.3	2017-10-30
7956716	GRADE 5 NW	2017-10-24 @ 12:00 pm	2017-10-27 @ 11:00 am	0.7 ± 0.3	2017-10-30
7956721	GRADE 5 OFFICE	2017-10-24 @ 12:00 pm	2017-10-27 @ 11:00 am	0.6 ± 0.3	2017-10-30
7956710	GRADE 5 SE	2017-10-24 @ 12:00 pm	2017-10-27 @ 11:00 am	0.7 ± 0.3	2017-10-30
7956717	GRADE 5 SW	2017-10-24 @ 12:00 pm	2017-10-27 @ 11:00 am	0.7 ± 0.3	2017-10-30
7956704	GRADE 6 NE	2017-10-24 @ 11:00 am	2017-10-27 @ 11:00 am	0.8 ± 0.3	2017-10-30
7956709	GRADE 6 NW	2017-10-24 @ 11:00 am	2017-10-27 @ 11:00 am	0.6 ± 0.2	2017-10-30
7956715	GRADE 6 OFFICE	2017-10-24 @ 12:00 pm	2017-10-27 @ 11:00 am	0.6 ± 0.2	2017-10-30
7956702	GRADE 6 SW	2017-10-24 @ 11:00 am	2017-10-27 @ 11:00 am	0.7 ± 0.3	2017-10-30
7956744	GYM OFFICE	2017-10-24 @ 12:00 pm	2017-10-27 @ 12:00 pm	0.7 ± 0.2	2017-10-30
7956701	HEALTH	2017-10-24 @ 11:00 am	2017-10-27 @ 11:00 am	0.5 ± 0.2	2017-10-30
7956745	INSTR COACH	2017-10-24 @ 12:00 pm	2017-10-27 @ 12:00 pm	0.8 ± 0.3	2017-10-30
7956746	KINDER NE	2017-10-24 @ 12:00 pm	2017-10-27 @ 12:00 pm	1.0 ± 0.3	2017-10-30
7956747	KINDER NW	2017-10-24 @ 12:00 pm	2017-10-27 @ 12:00 pm	1.0 ± 0.3	2017-10-30
7956736	KINDER SW	2017-10-24 @ 12:00 pm	2017-10-27 @ 12:00 pm	0.8 ± 0.3	2017-10-30
7956707	LIBRARY	2017-10-24 @ 11:00 am	2017-10-27 @ 11:00 am	0.9 ± 0.3	2017-10-30

Radon test result report for:**EASTWOOD
MAIN**

Kit #	Room Id	Started	Ended	pCi/L	Analyzed
7956708	LIBRARY 2	2017-10-24 @ 11:00 am	2017-10-27 @ 11:00 am	0.7 ± 0.3	2017-10-30
7956714	LIBRARY 3	2017-10-24 @ 11:00 am	2017-10-27 @ 11:00 am	0.7 ± 0.3	2017-10-30
7956713	LIBRARY DUP	2017-10-24 @ 11:00 am	2017-10-27 @ 11:00 am	0.9 ± 0.2	2017-10-30
7956742	MULT PURP 1	2017-10-24 @ 12:00 pm	2017-10-27 @ 12:00 pm	1.1 ± 0.3	2017-10-30
7956743	MULT PURP 2	2017-10-24 @ 12:00 pm	2017-10-27 @ 12:00 pm	0.8 ± 0.3	2017-10-30
7956741	MULT PURP DUP	2017-10-24 @ 12:00 pm	2017-10-27 @ 12:00 pm	1.0 ± 0.2	2017-10-30
7956735	MUSIC	2017-10-24 @ 12:00 pm	2017-10-27 @ 12:00 pm	0.9 ± 0.3	2017-10-30
7956705	OFFICE	2017-10-24 @ 11:00 am	2017-10-27 @ 11:00 am	0.9 ± 0.3	2017-10-30
7956706	OFFICE WRKRM	2017-10-24 @ 11:00 am	2017-10-27 @ 11:00 am	0.7 ± 0.3	2017-10-30
7956758	PORT 2 BLANK	2017-10-24 @ 1:00 pm	2017-10-27 @ 12:00 pm	< 0.3	2017-10-30
7956753	PORTABLE 1	2017-10-24 @ 1:00 pm	2017-10-27 @ 12:00 pm	< 0.3	2017-10-30
7956749	PORTABLE 2	2017-10-24 @ 1:00 pm	2017-10-27 @ 12:00 pm	< 0.3	2017-10-30
7956750	PORTABLE 3	2017-10-24 @ 1:00 pm	2017-10-27 @ 12:00 pm	< 0.3	2017-10-30
7956751	PORTABLE 4	2017-10-24 @ 1:00 pm	2017-10-27 @ 12:00 pm	< 0.3	2017-10-30
7956703	PRINCIPAL	2017-10-24 @ 11:00 am	2017-10-27 @ 11:00 am	0.8 ± 0.3	2017-10-30
7956748	STAFF LOUNGE	2017-10-24 @ 1:00 pm	2017-10-27 @ 12:00 pm	0.9 ± 0.3	2017-10-30