



November 7, 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
Quatama Elementary School
6905 NE Campus Way
Hillsboro, Oregon
PBS Project 23440.024, Phase 0002

Dear Mr. Waletich:

From October 10 to October 13, 2017, PBS Engineering and Environmental Inc. (PBS) performed short term radon testing at Quatama Elementary School located at 6905 NE Campus Way 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 Quatama Elementary School tested 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. For situations in which 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:**QUATAMA
MAIN**

Kit #	Room Id	Started	Ended	pCi/L	Analyzed
7888839	114	2017-10-10 @ 1:00 pm	2017-10-13 @ 12:00 pm	0.7 ± 0.2	2017-10-16
7888852	150	2017-10-10 @ 1:00 pm	2017-10-13 @ 12:00 pm	0.7 ± 0.3	2017-10-16
7888850	151	2017-10-10 @ 1:00 pm	2017-10-13 @ 12:00 pm	0.6 ± 0.2	2017-10-16
7888851	151-DUP	2017-10-10 @ 1:00 pm	2017-10-13 @ 12:00 pm	0.9 ± 0.3	2017-10-16
7888849	152	2017-10-10 @ 1:00 pm	2017-10-13 @ 12:00 pm	0.5 ± 0.2	2017-10-16
7888848	153	2017-10-10 @ 1:00 pm	2017-10-13 @ 12:00 pm	0.7 ± 0.3	2017-10-16
7888847	154	2017-10-10 @ 1:00 pm	2017-10-13 @ 12:00 pm	0.8 ± 0.2	2017-10-16
7888846	155	2017-10-10 @ 1:00 pm	2017-10-13 @ 12:00 pm	0.5 ± 0.2	2017-10-16
7888845	156	2017-10-10 @ 1:00 pm	2017-10-13 @ 12:00 pm	0.6 ± 0.2	2017-10-16
7888857	157	2017-10-10 @ 1:00 pm	2017-10-13 @ 12:00 pm	< 0.3	2017-10-16
7888843	158	2017-10-10 @ 1:00 pm	2017-10-13 @ 12:00 pm	0.7 ± 0.3	2017-10-16
7888838	159	2017-10-10 @ 1:00 pm	2017-10-13 @ 12:00 pm	< 0.3	2017-10-16
7888842	160	2017-10-10 @ 1:00 pm	2017-10-13 @ 12:00 pm	0.9 ± 0.3	2017-10-16
7888844	160 DUP	2017-10-10 @ 1:00 pm	2017-10-13 @ 12:00 pm	< 0.3	2017-10-16
7888840	161	2017-10-10 @ 1:00 pm	2017-10-13 @ 12:00 pm	1.1 ± 0.3	2017-10-16
7888841	162	2017-10-10 @ 1:00 pm	2017-10-13 @ 12:00 pm	0.6 ± 0.2	2017-10-16
7888837	ACTIVITY 1	2017-10-10 @ 1:00 pm	2017-10-13 @ 12:00 pm	0.9 ± 0.3	2017-10-16
7888856	ACTIVITY 2	2017-10-10 @ 1:00 pm	2017-10-13 @ 12:00 pm	0.9 ± 0.3	2017-10-16
7888803	ADMIN	2017-10-10 @ 1:00 pm	2017-10-13 @ 12:00 pm	< 0.3	2017-10-16
7888834	COMMONS-1	2017-10-10 @ 1:00 pm	2017-10-13 @ 12:00 pm	0.8 ± 0.2	2017-10-16
7888835	COMMONS-2	2017-10-10 @ 1:00 pm	2017-10-13 @ 12:00 pm	0.9 ± 0.3	2017-10-16
7888858	CONFERENCE	2017-10-10 @ 1:00 pm	2017-10-13 @ 12:00 pm	0.7 ± 0.2	2017-10-16
7888862	CUST OFFICE BLAN	2017-10-10 @ 2:00 pm	2017-10-13 @ 12:00 pm	< 0.3	2017-10-16
7888861	CUST OFFICE DUP	2017-10-10 @ 2:00 pm	2017-10-13 @ 12:00 pm	0.9 ± 0.3	2017-10-16
7888860	CUSTODIAL OFFICE	2017-10-10 @ 2:00 pm	2017-10-13 @ 12:00 pm	1.2 ± 0.3	2017-10-16
7888859	EASTERN WRKRM	2017-10-10 @ 1:00 pm	2017-10-13 @ 12:00 pm	0.6 ± 0.2	2017-10-16
7888854	GROUP 1	2017-10-10 @ 1:00 pm	2017-10-13 @ 12:00 pm	0.8 ± 0.3	2017-10-16
7888833	GYM OFFICE	2017-10-10 @ 1:00 pm	2017-10-13 @ 12:00 pm	< 0.3	2017-10-16
7888828	GYM-1	2017-10-10 @ 1:00 pm	2017-10-13 @ 12:00 pm	0.7 ± 0.2	2017-10-16
7888832	GYM-2	2017-10-10 @ 1:00 pm	2017-10-13 @ 12:00 pm	0.7 ± 0.2	2017-10-16
7888811	HEALTH	2017-10-10 @ 1:00 pm	2017-10-13 @ 12:00 pm	< 0.3	2017-10-16
7888853	MITCHEN OFFICE	2017-10-10 @ 1:00 pm	2017-10-13 @ 12:00 pm	0.6 ± 0.2	2017-10-16
7888836	MUSIC	2017-10-10 @ 1:00 pm	2017-10-13 @ 12:00 pm	< 0.3	2017-10-16
7888812	OFFICE103	2017-10-10 @ 1:00 pm	2017-10-13 @ 12:00 pm	0.6 ± 0.3	2017-10-16
7888819	OFFICE104	2017-10-10 @ 1:00 pm	2017-10-13 @ 12:00 pm	< 0.3	2017-10-16
7888804	PRINCIPAL	2017-10-10 @ 1:00 pm	2017-10-13 @ 12:00 pm	0.8 ± 0.2	2017-10-16
7888855	SPEECH	2017-10-10 @ 1:00 pm	2017-10-13 @ 12:00 pm	0.7 ± 0.2	2017-10-16

October 17, 2017

**** LABORATORY ANALYSIS REPORT ****

Radon test result report for:

**QUATAMA
MAIN**

Kit #	Room Id	Started	Ended	pCi/L	Analyzed
7888827	STAFF LOUNGE	2017-10-10 @ 1:00 pm	2017-10-13 @ 12:00 pm	< 0.3	2017-10-16
7888820	WORKROOM	2017-10-10 @ 1:00 pm	2017-10-13 @ 12:00 pm	< 0.3	2017-10-16

Air Chek, Inc. 1936 Butler Bridge Rd, Mills River, NC 28759-3892 Phone: (828) 684-0893 Fax: (828) 684-8498