



May 2, 2018

David Callaway  
David Douglas School District  
11300 NE Halsey Street  
Portland, Oregon 97220

Via email: david\_callaway@ddsd40.org

Regarding: Follow-up Radon Testing  
Cherry Park Elementary School  
1930 SE 104th Avenue  
Portland, Oregon 97216

PBS Project 23179.043, Phase 0002

Dear Mr. Callaway:

From April 17 to April 20, 2018, PBS Engineering and Environmental Inc. (PBS) performed follow-up short-term radon testing at Cherry Park Elementary School located at 1930 SE 104th Avenue in Portland, 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., single-use, short-term radon test kits to measure radon levels in locations where initial short-term radon test results were above the action level (4.0 pCi/L). This round of follow-up testing was completed after adjustments had been made to the building ventilation system. None of the areas sampled showed radon levels above the EPA action level.

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 that 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 503.515.4726 or [dale.voeller@pbsusa.com](mailto:dale.voeller@pbsusa.com) with any questions or comments.

Sincerely,



Dale Voeller, CHMM, CSP  
Senior Project Manager

Attachment: AirChek, Inc., Laboratory Analysis Report

April 30, 2018

**\*\* LABORATORY ANALYSIS REPORT \*\***

Radon test result report for:  
**CHERRY PARK  
MAIN**

Kit #	Room Id	Started	Ended	pCi/L	Analyzed
9014543	1	2018-04-17 @ 11:00 am	2018-04-20 @ 12:00 pm	1.1 ± 0.3	2018-04-23
9014561	10	2018-04-17 @ 11:00 am	2018-04-20 @ 12:00 pm	< 0.3	2018-04-23
9014565	11	2018-04-17 @ 11:00 am	2018-04-20 @ 12:00 pm	< 0.3	2018-04-23
9014566	12	2018-04-17 @ 11:00 am	2018-04-20 @ 12:00 pm	< 0.3	2018-04-23
9014562	14	2018-04-17 @ 11:00 am	2018-04-20 @ 12:00 pm	< 0.3	2018-04-23
9014544	16	2018-04-17 @ 11:00 am	2018-04-20 @ 12:00 pm	< 0.3	2018-04-23
9014567	19	2018-04-17 @ 11:00 am	2018-04-20 @ 12:00 pm	0.7 ± 0.3	2018-04-23
9014555	2	2018-04-17 @ 11:00 am	2018-04-20 @ 12:00 pm	1.5 ± 0.3	2018-04-23
9014556	2 DUP	2018-04-17 @ 11:00 am	2018-04-20 @ 12:00 pm	1.5 ± 0.3	2018-04-23
9014563	22	2018-04-17 @ 11:00 am	2018-04-20 @ 12:00 pm	< 0.3	2018-04-23
9014564	23	2018-04-17 @ 11:00 am	2018-04-20 @ 12:00 pm	0.8 ± 0.3	2018-04-23
9014545	27 FACULTY	2018-04-17 @ 11:00 am	2018-04-20 @ 12:00 pm	1.2 ± 0.3	2018-04-23
9014549	3	2018-04-17 @ 11:00 am	2018-04-20 @ 12:00 pm	< 0.3	2018-04-23
9014548	4	2018-04-17 @ 11:00 am	2018-04-20 @ 12:00 pm	< 0.3	2018-04-23
9014547	48 COUNSELOR	2018-04-17 @ 11:00 am	2018-04-20 @ 12:00 pm	1.4 ± 0.3	2018-04-23
9014557	5	2018-04-17 @ 11:00 am	2018-04-20 @ 12:00 pm	< 0.3	2018-04-23
9014546	6	2018-04-17 @ 11:00 am	2018-04-20 @ 12:00 pm	< 0.3	2018-04-23
9014558	7	2018-04-17 @ 11:00 am	2018-04-20 @ 12:00 pm	1.0 ± 0.3	2018-04-23
9014550	7 DUP	2018-04-17 @ 11:00 am	2018-04-20 @ 12:00 pm	1.1 ± 0.3	2018-04-23
9014559	8	2018-04-17 @ 11:00 am	2018-04-20 @ 12:00 pm	< 0.3	2018-04-23
9014560	9	2018-04-17 @ 11:00 am	2018-04-20 @ 12:00 pm	1.0 ± 0.3	2018-04-23
9014568	GYM OFFICE	2018-04-17 @ 11:00 am	2018-04-20 @ 12:00 pm	3.0 ± 0.4	2018-04-23
9014569	GYM OFFICE BLANK	2018-04-17 @ 11:00 am	2018-04-20 @ 12:00 pm	< 0.3	2018-04-23