



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  
Evergreen Middle School  
456 Northeast Evergreen Road  
Hillsboro, Oregon  
PBS Project 23440.024, Phase 0002

Dear Mr. Waletich:

From October 23 to October 26, 2017, PBS Engineering and Environmental Inc. (PBS) performed short term radon testing at Evergreen Middle School located at 456 Northeast Evergreen Road 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 Evergreen Middle 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](mailto: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:**EVERGREEN  
MAIN**

Kit #	Room Id	Started	Ended	pCi/L	Analyzed
7957023	1	2017-10-23 @ 10:00 am	2017-10-26 @ 10:00 am	1.9 ± 0.2	2017-10-27
7957038	10	2017-10-23 @ 11:00 am	2017-10-26 @ 11:00 am	0.7 ± 0.2	2017-10-27
7957042	11	2017-10-23 @ 11:00 am	2017-10-26 @ 11:00 am	< 0.3	2017-10-27
7957045	12	2017-10-23 @ 11:00 am	2017-10-26 @ 11:00 am	0.5 ± 0.2	2017-10-27
7957046	13	2017-10-23 @ 11:00 am	2017-10-26 @ 11:00 am	0.7 ± 0.2	2017-10-27
7957047	14	2017-10-23 @ 11:00 am	2017-10-26 @ 11:00 am	1.0 ± 0.2	2017-10-27
7957049	14 OFFICE SOUTH	2017-10-23 @ 11:00 am	2017-10-26 @ 11:00 am	1.1 ± 0.2	2017-10-27
7957050	14-B	2017-10-23 @ 11:00 am	2017-10-26 @ 11:00 am	2.1 ± 0.2	2017-10-27
7957057	14-NORTH	2017-10-23 @ 11:00 am	2017-10-26 @ 11:00 am	1.1 ± 0.2	2017-10-27
7957048	15	2017-10-23 @ 11:00 am	2017-10-26 @ 11:00 am	0.7 ± 0.2	2017-10-27
7957051	16	2017-10-23 @ 11:00 am	2017-10-26 @ 11:00 am	0.6 ± 0.2	2017-10-27
7957052	17	2017-10-23 @ 11:00 am	2017-10-26 @ 11:00 am	0.5 ± 0.2	2017-10-27
7957053	18	2017-10-23 @ 11:00 am	2017-10-26 @ 11:00 am	< 0.3	2017-10-27
7957054	19	2017-10-23 @ 11:00 am	2017-10-26 @ 11:00 am	< 0.3	2017-10-27
7957024	2	2017-10-23 @ 10:00 am	2017-10-26 @ 10:00 am	1.2 ± 0.2	2017-10-27
7957055	20	2017-10-23 @ 11:00 am	2017-10-26 @ 11:00 am	0.5 ± 0.2	2017-10-27
7957056	21	2017-10-23 @ 11:00 am	2017-10-26 @ 11:00 am	0.7 ± 0.2	2017-10-27
7957058	22	2017-10-23 @ 11:00 am	2017-10-26 @ 11:00 am	0.8 ± 0.2	2017-10-27
7957059	23	2017-10-23 @ 11:00 am	2017-10-26 @ 11:00 am	1.1 ± 0.2	2017-10-27
7957060	24	2017-10-23 @ 11:00 am	2017-10-26 @ 11:00 am	1.3 ± 0.2	2017-10-27
7957061	25	2017-10-23 @ 11:00 am	2017-10-26 @ 11:00 am	0.6 ± 0.2	2017-10-27
7957062	26	2017-10-23 @ 11:00 am	2017-10-26 @ 11:00 am	1.3 ± 0.2	2017-10-27
7957063	27	2017-10-23 @ 11:00 am	2017-10-26 @ 11:00 am	0.7 ± 0.2	2017-10-27
7957064	28	2017-10-23 @ 11:00 am	2017-10-26 @ 11:00 am	1.5 ± 0.2	2017-10-27
7957065	29	2017-10-23 @ 11:00 am	2017-10-26 @ 11:00 am	0.7 ± 0.2	2017-10-27
7957025	3	2017-10-23 @ 10:00 am	2017-10-26 @ 10:00 am	1.1 ± 0.2	2017-10-27
7957066	30	2017-10-23 @ 11:00 am	2017-10-26 @ 11:00 am	1.5 ± 0.2	2017-10-27
7957067	31	2017-10-23 @ 11:00 am	2017-10-26 @ 11:00 am	< 0.3	2017-10-27
7957068	32	2017-10-23 @ 11:00 am	2017-10-26 @ 11:00 am	0.7 ± 0.2	2017-10-27
7957069	33	2017-10-23 @ 11:00 am	2017-10-26 @ 11:00 am	< 0.3	2017-10-27
7957070	33-DUP.	2017-10-23 @ 11:00 am	2017-10-26 @ 11:00 am	0.6 ± 0.2	2017-10-27
7957071	34	2017-10-23 @ 11:00 am	2017-10-26 @ 11:00 am	0.6 ± 0.2	2017-10-27
7957072	35	2017-10-23 @ 11:00 am	2017-10-26 @ 11:00 am	0.9 ± 0.2	2017-10-27
7957074	35/36 OFFICE	2017-10-23 @ 11:00 am	2017-10-26 @ 11:00 am	0.8 ± 0.2	2017-10-27
7957073	36	2017-10-23 @ 11:00 am	2017-10-26 @ 11:00 am	0.9 ± 0.2	2017-10-27
7957075	36-DUP	2017-10-23 @ 12:00 pm	2017-10-26 @ 11:00 am	0.9 ± 0.2	2017-10-27
7957083	38	2017-10-23 @ 12:00 pm	2017-10-26 @ 12:00 pm	0.8 ± 0.2	2017-10-27

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

Kit #	Room Id	Started	Ended	pCi/L	Analyzed
7957084	38-OFFICE	2017-10-23 @ 12:00 pm	2017-10-26 @ 12:00 pm	0.6 ± 0.2	2017-10-27
7957104	39	2017-10-23 @ 1:00 pm	2017-10-26 @ 12:00 pm	1.1 ± 0.2	2017-10-27
7957026	4	2017-10-23 @ 10:00 am	2017-10-26 @ 10:00 am	0.9 ± 0.2	2017-10-27
7957027	4 - OFFICE	2017-10-23 @ 10:00 am	2017-10-26 @ 10:00 am	0.7 ± 0.2	2017-10-27
7957102	40	2017-10-23 @ 1:00 pm	2017-10-26 @ 12:00 pm	0.7 ± 0.2	2017-10-27
7957100	41	2017-10-23 @ 12:00 pm	2017-10-26 @ 12:00 pm	0.6 ± 0.2	2017-10-27
7957099	42	2017-10-23 @ 12:00 pm	2017-10-26 @ 12:00 pm	1.1 ± 0.2	2017-10-27
7957101	42 WORK RM	2017-10-23 @ 12:00 pm	2017-10-26 @ 12:00 pm	0.9 ± 0.2	2017-10-27
7957098	43	2017-10-23 @ 12:00 pm	2017-10-26 @ 12:00 pm	0.7 ± 0.2	2017-10-27
7957022	44	2017-10-23 @ 10:00 am	2017-10-26 @ 11:00 am	< 0.3	2017-10-27
7957020	45	2017-10-23 @ 10:00 am	2017-10-26 @ 10:00 am	0.6 ± 0.2	2017-10-27
7957021	46	2017-10-23 @ 10:00 am	2017-10-26 @ 12:00 pm	0.6 ± 0.2	2017-10-27
7957033	5	2017-10-23 @ 11:00 am	2017-10-26 @ 11:00 am	< 0.3	2017-10-27
7957034	6	2017-10-23 @ 11:00 am	2017-10-26 @ 11:00 am	< 0.3	2017-10-27
7957035	7	2017-10-23 @ 11:00 am	2017-10-26 @ 11:00 am	0.6 ± 0.2	2017-10-27
7957036	8	2017-10-23 @ 11:00 am	2017-10-26 @ 11:00 am	< 0.3	2017-10-27
7957037	9	2017-10-23 @ 11:00 am	2017-10-26 @ 11:00 am	0.6 ± 0.2	2017-10-27
7957085	BAND	2017-10-23 @ 12:00 pm	2017-10-26 @ 12:00 pm	0.8 ± 0.2	2017-10-27
7957086	BAND OFFICE	2017-10-23 @ 12:00 pm	2017-10-26 @ 12:00 pm	1.0 ± 0.2	2017-10-27
7957005	BLANK	2017-10-23 @ 10:00 am	2017-10-26 @ 10:00 am	< 0.3	2017-10-27
7957040	BLANK-2	2017-10-23 @ 11:00 am	2017-10-26 @ 11:00 am	< 0.3	2017-10-27
7957079	BLANK-3	2017-10-23 @ 12:00 pm	2017-10-26 @ 11:00 am	< 0.3	2017-10-27
7957093	BOYS LR OFFICE	2017-10-23 @ 12:00 pm	2017-10-26 @ 12:00 pm	0.7 ± 0.2	2017-10-27
7957087	CHORAL	2017-10-23 @ 12:00 pm	2017-10-26 @ 12:00 pm	< 0.3	2017-10-27
7957088	CHORAL OFFICE	2017-10-23 @ 12:00 pm	2017-10-26 @ 12:00 pm	0.8 ± 0.2	2017-10-27
7957089	CHORAL-DUP	2017-10-23 @ 12:00 pm	2017-10-26 @ 12:00 pm	< 0.3	2017-10-27
7957041	COMMONS-1	2017-10-23 @ 11:00 am	2017-10-26 @ 11:00 am	0.7 ± 0.2	2017-10-27
7957043	COMMONS-2	2017-10-23 @ 11:00 am	2017-10-26 @ 11:00 am	0.7 ± 0.2	2017-10-27
7957044	COMMONS-3	2017-10-23 @ 11:00 am	2017-10-26 @ 11:00 am	0.8 ± 0.2	2017-10-27
7957039	COMMONS-STAGE	2017-10-23 @ 11:00 am	2017-10-26 @ 11:00 am	0.8 ± 0.2	2017-10-27
7957010	CONFERENCE	2017-10-23 @ 10:00 am	2017-10-26 @ 10:00 am	0.7 ± 0.2	2017-10-27
7957016	COUNS. CONF.	2017-10-23 @ 10:00 am	2017-10-26 @ 10:00 am	0.6 ± 0.2	2017-10-27
7957019	COUNS. CONF.-DUP	2017-10-23 @ 10:00 am	2017-10-26 @ 10:00 am	< 0.3	2017-10-27
7957015	COUNS. HARRIS	2017-10-23 @ 10:00 am	2017-10-26 @ 10:00 am	0.8 ± 0.2	2017-10-27
7957018	COUNS. PLUTKO	2017-10-23 @ 10:00 am	2017-10-26 @ 10:00 am	0.9 ± 0.2	2017-10-27
7957017	COUNS. RUSSELL	2017-10-23 @ 10:00 am	2017-10-26 @ 10:00 am	< 0.3	2017-10-27
7957012	COUNSELING OFF.	2017-10-23 @ 10:00 am	2017-10-26 @ 10:00 am	0.9 ± 0.2	2017-10-27

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Kit #	Room Id	Started	Ended	pCi/L	Analyzed
7957078	CUST. OFF.-DUP	2017-10-23 @ 12:00 pm	2017-10-26 @ 11:00 am	1.0 ± 0.2	2017-10-27
7957077	CUSTODIAL OFFICE	2017-10-23 @ 12:00 pm	2017-10-26 @ 11:00 am	0.8 ± 0.2	2017-10-27
7957094	GIRLS LR OFFICE	2017-10-23 @ 12:00 pm	2017-10-26 @ 12:00 pm	0.8 ± 0.2	2017-10-27
7957096	GYM-1	2017-10-23 @ 12:00 pm	2017-10-26 @ 12:00 pm	0.6 ± 0.2	2017-10-27
7957095	GYM-2	2017-10-23 @ 12:00 pm	2017-10-26 @ 12:00 pm	0.6 ± 0.2	2017-10-27
7957097	GYM-3	2017-10-23 @ 12:00 pm	2017-10-26 @ 12:00 pm	0.5 ± 0.2	2017-10-27
7957090	GYMNASTICS	2017-10-23 @ 12:00 pm	2017-10-26 @ 12:00 pm	< 0.3	2017-10-27
7957092	GYMNASTICS-2	2017-10-23 @ 12:00 pm	2017-10-26 @ 12:00 pm	< 0.3	2017-10-27
7957076	KITCHEN OFFICE	2017-10-23 @ 12:00 pm	2017-10-26 @ 11:00 am	0.6 ± 0.2	2017-10-27
7957031	LIBRARY	2017-10-23 @ 11:00 am	2017-10-26 @ 11:00 am	0.9 ± 0.2	2017-10-27
7957028	LIBRARY COMPUTER	2017-10-23 @ 10:00 am	2017-10-26 @ 11:00 am	0.8 ± 0.2	2017-10-27
7957030	LIBRARY CONF.	2017-10-23 @ 10:00 am	2017-10-26 @ 11:00 am	1.0 ± 0.2	2017-10-27
7957029	LIBRARY OFFICE	2017-10-23 @ 10:00 am	2017-10-26 @ 11:00 am	0.8 ± 0.2	2017-10-27
7957032	LIBRARY-2	2017-10-23 @ 11:00 am	2017-10-26 @ 11:00 am	0.7 ± 0.2	2017-10-27
7957001	MAIN OFFICE-1	2017-10-23 @ 10:00 am	2017-10-26 @ 10:00 am	0.9 ± 0.2	2017-10-27
7957002	MAIN OFFICE-DUP	2017-10-23 @ 10:00 am	2017-10-26 @ 10:00 am	0.7 ± 0.2	2017-10-27
7957009	MURRAY OFFICE	2017-10-23 @ 10:00 am	2017-10-26 @ 10:00 am	< 0.3	2017-10-27
7957003	NURSE	2017-10-23 @ 10:00 am	2017-10-26 @ 10:00 am	0.7 ± 0.2	2017-10-27
7957008	PEACOCK OFFICE	2017-10-23 @ 10:00 am	2017-10-26 @ 10:00 am	< 0.3	2017-10-27
7957011	PRINCIPAL OFFICE	2017-10-23 @ 10:00 am	2017-10-26 @ 10:00 am	0.8 ± 0.2	2017-10-27
7957080	SHOP	2017-10-23 @ 12:00 pm	2017-10-26 @ 12:00 pm	0.9 ± 0.2	2017-10-27
7957082	SHOP COMP. LAB	2017-10-23 @ 12:00 pm	2017-10-26 @ 12:00 pm	0.8 ± 0.2	2017-10-27
7957081	SHOP OFFICE	2017-10-23 @ 12:00 pm	2017-10-26 @ 12:00 pm	1.0 ± 0.2	2017-10-27
7957013	SRO	2017-10-23 @ 10:00 am	2017-10-26 @ 10:00 am	0.7 ± 0.2	2017-10-27
7957006	STAFF LOUNGE	2017-10-23 @ 10:00 am	2017-10-26 @ 10:00 am	< 0.3	2017-10-27
7957007	STUDENT COACHING	2017-10-23 @ 10:00 am	2017-10-26 @ 10:00 am	0.7 ± 0.2	2017-10-27
7957091	WEIGHT RM	2017-10-23 @ 12:00 pm	2017-10-26 @ 12:00 pm	< 0.3	2017-10-27
7957004	WORK ROOM	2017-10-23 @ 10:00 am	2017-10-26 @ 10:00 am	0.7 ± 0.2	2017-10-27
7957014	YOUTH CONTACT	2017-10-23 @ 10:00 am	2017-10-26 @ 10:00 am	< 0.3	2017-10-27