



April 6, 2021

Brad Johnston
Lane Education Service District
1200 State Hwy 99 N
Eugene, Oregon 97402

Via email: bjohnston@lesd.k12.or.us

Regarding: Lane ESD Westmorland Campus – Short-Term Radon Testing
1717 City View Street
Eugene, Oregon 97402
PBS Project 52651.000

Dear Mr. Johnston:

From March 29th to March 31st, 2021 PBS Engineering and Environmental Inc. (PBS) performed short-term radon testing for the Lane ESD Building located at 1717 City View Street in Eugene, 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 frequently occupied rooms that are in contact with the ground or above unoccupied basements or crawlspaces. **No samples taken by PBS were found to be above the EPA action level of 4.0 pCi/L.**

In addition to the single-use, short-term radon test kits deployed in frequently occupied rooms, two (2) sample blanks, two (2) spike samples, and four (4) duplicates were analyzed by Air Chek, Inc. in Mills River, North Carolina for quality control (QC) purposes.

The following table presents the results of all tests conducted during this study. Results are listed in pCi/L.

Kit Number	Start Date	End Date	Room	Floor	Result (pCi/L)	Comments
9527793	3/29/2021	3/31/2021	ROOM 17	1	< 0.3	
9527794	3/29/2021	3/31/2021	ROOM 18	1	< 0.3	
9527795	3/29/2021	3/31/2021	ROOM 18	1	< 0.3	Duplicate: RPD = 0%
9527796	3/29/2021	3/31/2021	ROOM 19	1	< 0.3	
9527797	3/29/2021	3/31/2021	BUILDING C - GYM	1	< 0.3	
9527798	3/29/2021	3/31/2021	BUILDING C - GYM	1	< 0.3	
9527799	3/29/2021	3/31/2021	BUILDING C - GYM OFFICE	1	< 0.3	
9527800	3/29/2021	3/31/2021	STAGE	1	< 0.3	
9627701	3/29/2021	3/31/2021	STAFF OFFICE	1	< 0.3	
9627702	3/29/2021	3/31/2021	STAFF WORK ROOM	1	< 0.3	
9627703	3/29/2021	3/31/2021	PRINCIPAL'S OFFICE	1	< 0.3	
9627704	3/29/2021	3/31/2021	AMY'S OFFICE	1	< 0.3	
9627705	3/29/2021	3/31/2021	JESSIE'S OFFICE	1	< 0.3	

Kit Number	Start Date	End Date	Room	Floor	Result (pCi/L)	Comments
9627706	3/29/2021	3/31/2021	NURSE'S OFFICE	1	< 0.3	
9627707	3/29/2021	3/31/2021	ROOM 5	1	< 0.3	Duplicate: RPD = 0%
9627708	3/29/2021	3/31/2021	ROOM 5	1	< 0.3	
9627709	3/29/2021	3/31/2021	ROOM 4	1	< 0.3	
9627710	3/29/2021	3/31/2021	ROOM 3	1	< 0.3	
9627711	3/29/2021	3/31/2021	ROOM 2	1	< 0.3	
9627712	3/29/2021	3/31/2021	ROOM 1	1	< 0.3	
9627713	3/29/2021	3/31/2021	ROOM 6	1	< 0.3	
9627714	3/29/2021	3/31/2021	ROOM 7	1	< 0.3	
9627715	3/29/2021	3/31/2021	ROOM 8	1	< 0.3	
9627716	3/29/2021	3/31/2021	ROOM 16	1	0.5	
9627717	3/29/2021	3/31/2021	ROOM 15	1	< 0.3	
9627718	3/29/2021	3/31/2021	ROOM 14	1	< 0.3	
9627719	3/29/2021	3/31/2021	NATALIE/LESLIE OFFICE	1	< 0.3	
9627720	3/29/2021	3/31/2021	BRITTNEY SPENCER	1	< 0.3	
9627721	3/29/2021	3/31/2021	MEDIA LIBRARY/CONSULTANTS	1	< 0.3	
9627722	3/29/2021	3/31/2021	RENEE'S OFFICE	1	< 0.3	
9627723	3/29/2021	3/31/2021	RENEE'S OFFICE	1	< 0.3	Duplicate: RPD = 0%
9627724	3/29/2021	3/31/2021	LIBRARY MEETING ROOM	1	< 0.3	
9627725	3/29/2021	3/31/2021	PORTABLE 2 CLASSROOM	1	< 0.3	
9627726	3/29/2021	3/31/2021	ROOM 12	1	< 0.3	
9627727	3/29/2021	3/31/2021	ROOM 11	1	< 0.3	
9627729	3/29/2021	3/31/2021	ROOM 9	1	< 0.3	
9627730	3/29/2021	3/31/2021	GYM BUILDING - GYM	1	< 0.3	
9627731	3/29/2021	3/31/2021	GYM BUILDING - GYM	1	< 0.3	Duplicate: RPD = 0%
9627732	3/29/2021	3/31/2021	GYM BUILDING - GYM	1	< 0.3	
9627737	3/29/2021	3/31/2021	---	---	< 0.3	Blank Sample
9627738	3/29/2021	3/31/2021	---	---	< 0.3	Blank Sample
9527885	3/27/2021	3/29/2021	---	---	Reference Value: 13.7 Measured Value: 13.8	Spike Sample: RPE = 1%
9527886	3/27/2021	3/29/2021	---	---	Reference Value: 13.7 Measured Value: 14.4	Spike Sample: RPE = 5%

Simultaneous measurement results that are both less than (<) 4.0 pCi/L shall agree with a Relative Percent Difference (RPD) of less than (<) 67 percent. RPD is calculated by taking the difference between 2 results, dividing by the average the results, and multiplying by 100.

Relative Percentage Error (RPE) is calculated by taking the difference between a measured value and reference value, dividing by the reference, and multiplying by 100. A trend in RPE values that are more than 30% should be investigated.

The following testing abnormalities were noted during this investigation:

- Building G, classroom 10 (Kit #9627728) was missing during sample collection.

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 541.255.6182 or daniel.lyons@pbsusa.com with any questions or comments.

Sincerely,

Daniel Lyons
Industrial Hygiene Technician

Reviewed by: JH

Attachment: AirChek, Inc., Laboratory Analysis Report

P7901 / LESLIE MURRAY

Kit Number	Start Date	Start Time	End Date	End Time	Temp.	Facility	Building	Room	Project ID	Floor	Result
9527793	2021-03-29	2:00 pm	2021-03-31	3:00 pm	68	1717 CITY VIEW	BUILDING B	ROOM 17	52651.000	1	< 0.3
9527794	2021-03-29	2:00 pm	2021-03-31	3:00 pm	68	1717 CITY VIEW	BUILDING B	ROOM 18	52651.000	1	< 0.3
9527795	2021-03-29	2:00 pm	2021-03-31	3:00 pm	68	1717 CITY VIEW	BUILDING B	ROOM 18	52651.000	1	< 0.3
9527796	2021-03-29	2:00 pm	2021-03-31	3:00 pm	68	1717 CITY VIEW	BUILDING B	ROOM 19	52651.000	1	< 0.3
9527797	2021-03-29	2:00 pm	2021-03-31	3:00 pm	68	1717 CITY VIEW	BUILDING C	GYM	52651.000	1	< 0.3
9527798	2021-03-29	2:00 pm	2021-03-31	3:00 pm	68	1717 CITY VIEW	BUILDING C	GYM	52651.000	1	< 0.3
9527799	2021-03-29	2:00 pm	2021-03-31	3:00 pm	68	1717 CITY VIEW	BUILDING C	GYM OFFICE	52651.000	1	< 0.3
9527800	2021-03-29	2:00 pm	2021-03-31	3:00 pm	68	1717 CITY VIEW	BUILDING C	STAGE	52651.000	1	< 0.3
9527885	2021-03-27	7:00 am	2021-03-29	7:00 am	72	1717 CITY VIEW	BUILDING H	HALLWAY - S	52651.000	1	13.8
9527886	2021-03-27	7:00 am	2021-03-29	7:00 am	72	1717 CITY VIEW	BUILDING F	HALLWAY - S	52651.000	1	14.4
9627701	2021-03-29	2:00 pm	2021-03-31	3:00 pm	68	1717 CITY VIEW	BUILDING C	STAFF OFFICE	52651.000	1	< 0.3
9627702	2021-03-29	2:00 pm	2021-03-31	3:00 pm	68	1717 CITY VIEW	BUILDING C	STAFF WORK ROOM	52651.000	1	< 0.3
9627703	2021-03-29	2:00 pm	2021-03-31	3:00 pm	68	1717 CITY VIEW	BUILDING C	PRINCIPAL'S OFFICE	52651.000	1	< 0.3
9627704	2021-03-29	2:00 pm	2021-03-31	3:00 pm	68	1717 CITY VIEW	BUILDING C	AMY'S OFFICE	52651.000	1	< 0.3
9627705	2021-03-29	2:00 pm	2021-03-31	3:00 pm	68	1717 CITY VIEW	BUILDING C	JESSIE'S OFFICE	52651.000	1	< 0.3
9627706	2021-03-29	2:00 pm	2021-03-31	3:00 pm	68	1717 CITY VIEW	BUILDING C	NURSE'S OFFICE	52651.000	1	< 0.3
9627707	2021-03-29	2:00 pm	2021-03-31	3:00 pm	68	1717 CITY VIEW	BUILDING D	ROOM 5	52651.000	1	< 0.3
9627708	2021-03-29	2:00 pm	2021-03-31	3:00 pm	68	1717 CITY VIEW	BUILDING D	ROOM 5	52651.000	1	< 0.3
9627709	2021-03-29	2:00 pm	2021-03-31	3:00 pm	68	1717 CITY VIEW	BUILDING D	ROOM 4	52651.000	1	< 0.3
9627710	2021-03-29	2:00 pm	2021-03-31	3:00 pm	68	1717 CITY VIEW	BUILDING E	ROOM 3	52651.000	1	< 0.3
9627711	2021-03-29	2:00 pm	2021-03-31	3:00 pm	68	1717 CITY VIEW	BUILDING E	ROOM 2	52651.000	1	< 0.3
9627712	2021-03-29	2:00 pm	2021-03-31	3:00 pm	68	1717 CITY VIEW	BUILDING E	ROOM 1	52651.000	1	< 0.3
9627713	2021-03-29	2:00 pm	2021-03-31	3:00 pm	68	1717 CITY VIEW	BUILDING F	ROOM 6	52651.000	1	< 0.3
9627714	2021-03-29	2:00 pm	2021-03-31	3:00 pm	68	1717 CITY VIEW	BUILDING F	ROOM 7	52651.000	1	< 0.3
9627715	2021-03-29	2:00 pm	2021-03-31	3:00 pm	68	1717 CITY VIEW	BUILDING F	ROOM 8	52651.000	1	< 0.3
9627716	2021-03-29	2:00 pm	2021-03-31	3:00 pm	68	1717 CITY VIEW	BUILDING H	ROOM 16	52651.000	1	0.5
9627717	2021-03-29	2:00 pm	2021-03-31	3:00 pm	68	1717 CITY VIEW	BUILDING H	ROOM 15	52651.000	1	< 0.3
9627718	2021-03-29	2:00 pm	2021-03-31	3:00 pm	68	1717 CITY VIEW	BUILDING H	ROOM 14	52651.000	1	< 0.3
9627719	2021-03-29	2:00 pm	2021-03-31	3:00 pm	68	1717 CITY VIEW	BUILDING H	NATALIE/LESLIE OFFICE	52651.000	1	< 0.3
9627720	2021-03-29	2:00 pm	2021-03-31	3:00 pm	68	1717 CITY VIEW	BUILDING H	BRITTNEY SPENCER	52651.000	1	< 0.3
9627721	2021-03-29	2:00 pm	2021-03-31	3:00 pm	68	1717 CITY VIEW	BUILDING H	MEDIA LIBRARY/CONSULTANTS	52651.000	1	< 0.3
9627722	2021-03-29	2:00 pm	2021-03-31	3:00 pm	68	1717 CITY VIEW	BUILDING H	RENEE'S OFFICE	52651.000	1	< 0.3
9627723	2021-03-29	2:00 pm	2021-03-31	3:00 pm	68	1717 CITY VIEW	BUILDING H	RENEE'S OFFICE	52651.000	1	< 0.3
9627724	2021-03-29	2:00 pm	2021-03-31	3:00 pm	68	1717 CITY VIEW	BUILDING H	MEETING ROOM	52651.000	1	< 0.3
9627725	2021-03-29	2:00 pm	2021-03-31	3:00 pm	68	1717 CITY VIEW	PORTABLE 2	CLASSROOM	52651.000	1	< 0.3

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Kit Number	Start Date	Start Time	End Date	End Time	Temp.	Facility	Building	Room	Project ID	Floor	Result
9627726	2021-03-29	2:00 pm	2021-03-31	4:00 pm	68	1717 CITY VIEW	BUILDING G	ROOM 12	52651.000	1	< 0.3
9627727	2021-03-29	2:00 pm	2021-03-31	4:00 pm	68	1717 CITY VIEW	BUILDING G	ROOM 11	52651.000	1	< 0.3
9627729	2021-03-29	2:00 pm	2021-03-31	4:00 pm	68	1717 CITY VIEW	BUILDING G	ROOM 9	52651.000	1	< 0.3
9627730	2021-03-29	2:00 pm	2021-03-31	4:00 pm	68	1717 CITY VIEW	GYM BUILDING	GYM	52651.000	1	< 0.3
9627731	2021-03-29	2:00 pm	2021-03-31	4:00 pm	68	1717 CITY VIEW	GYM BUILDING	GYM	52651.000	1	< 0.3
9627732	2021-03-29	2:00 pm	2021-03-31	4:00 pm	68	1717 CITY VIEW	GYM BUILDING	GYM	52651.000	1	< 0.3
9627737	2021-03-29	2:00 pm	2021-03-31	3:00 pm	68	1717 CITY VIEW	BUILDING C	HALLWAY - B	52651.000	1	< 0.3
9627738	2021-03-29	2:00 pm	2021-03-31	3:00 pm	68	1717 CITY VIEW	BUILDING B	HALLWAY - B	52651.000	1	< 0.3