



Indy Safety, Inc.

5010 NE Roselawn St
Portland, OR 97218

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Project Manager

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"We got this"

To: Bruce Rask, Scappoose School District
From: Kate Connolly-Fairchild, Project Manager, Indy Safety
Project: Scappoose School District
Sauvie Island Academy—Radon Testing
14445 Charlton Rd
Portland, OR 97231
Testing Date: October 24-26, 2017
Report Date: November 6, 2017

Purpose

Indy Safety Inc. was contracted to perform radon testing in the Sauvie Island Academy as required by the Oregon Health Authority under the Healthy and Safe School Plan through SB 1062. As required, all occupied rooms were tested using a charcoal canister vial and liquid scintillation laboratory testing through accredited lab, EMSL. Also included were three levels of quality assurance—blanks, duplicates and spiked samples. Explanation of the results and the publishable lab results follow.

Results

A total of 27 vials were submitted for laboratory analysis:

- 22 rooms/areas were tested, including portable outbuildings
- 2 duplicate QC
- 1 blank QC
- 2 spiked samples with known quantity of radon (sample # 26, 27 at 37 and 36.5 pCi/L.)
 - These are quality control tests in which a separate lab adds a specific amount of radon to the vials to ensure the accuracy of the testing lab (EMSL), and do not represent radon levels in the tested buildings.

All of the areas tested below the EPA action limit of 4 pCi/L. The PE office tested the highest, at 3.1 pCi/L, and although this is below the action limit, it is recommended that all areas above 2 pCi/L be ventilated further to reduce accumulation of gases. Small rooms are most susceptible to gas accumulation, and may often be ventilated by installation of door vents, ceiling exhaust fans or keeping the door open as much as possible during occupied hours.

Recommendations

- Increase air flow in the PE office through increased ventilation.
- Retest in 10 years.

Laboratory Analysis – Radon Results



EMSL Analytical, Inc.
 200 Route 130 North, Cinnaminson, NJ 08077
 Phone/Fax: (800) 220-3675 / (856) 786-0327
<http://www.EMSL.com> cinnaminsonradonlab@emsl.com

EMSL Order: 381709873
 CustomerID: INDS42
 CustomerPO:
 ProjectID:

Attn: **Sally Koch**
Indy Safety
5010 NE Roselawn Street
Portland, OR 97218

Phone: (503) 501-7396
 Fax:
 Received: 10/27/17 12:06 PM
 Analysis Date: 10/28/2017
 Collected: 10/24/2017

Project: **Sauvie Island Academy / 14445 NW Kharlton Rd**

Test: **Sauvie Island Academy**
 Site: **14445 NW Kharlton Rd**
Portland, OR 97231

Test Report: Radon in Air Test Results

Liquid Scintillation ID	Location	Radon Activity (pCi/L)	Start	Stop	Temperature F	Humidity %	Sample Type
303800 381709873-0001	Cafeteria	0.4	10/24/2017 3:24:00 PM	10/26/2017 3:27:00 PM	75	46.9	Customer
Sample Notes:							
303866 381709873-0002	School Counselor	0.3	10/24/2017 3:24:00 PM	10/26/2017 3:30:00 PM	72.8	47.3	Customer
Sample Notes:							
303740 381709873-0003	Gym 1	1.1	10/24/2017 3:26:00 PM	10/26/2017 3:31:00 PM	72.5	57.8	Customer
Sample Notes:							
303942 381709873-0004	Gym 2	1	10/24/2017 3:27:00 PM	10/26/2017 3:32:00 PM	72.5	55.4	Customer
Sample Notes:							
303689 381709873-0005	PE Office	3.1	10/24/2017 3:28:00 PM	10/26/2017 3:33:00 PM	74.3	53.5	Customer
Sample Notes:							
303769 381709873-0006	Kindergarten	0.7	10/24/2017 3:32:00 PM	10/26/2017 3:38:00 PM	73.1	53.8	Customer
Sample Notes:							
303920 381709873-0007	1st Grade	0.9	10/24/2017 3:36:00 PM	10/26/2017 3:39:00 PM	75.3	46.4	Customer
Sample Notes:							
303974 381709873-0008	2nd Grade	0.6	10/24/2017 3:37:00 PM	10/26/2017 3:40:00 PM	72.6	44.9	Customer
Sample Notes:							
303912 381709873-0009	Library	0.5	10/24/2017 3:39:00 PM	10/26/2017 3:42:00 PM	72.4	49.1	Customer
Sample Notes:							
303851 381709873-0010	Library Desk	0.5	10/24/2017 3:42:00 PM	10/26/2017 3:44:00 PM	73.4	45.1	Customer
Sample Notes:							

Please visit www.radontestinglab.com

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Test Report: Radon in Air Test Results

Liquid Scintillation ID	Location	Radon Activity (pCi/L)	Start	Stop	Temperature F	Humidity %	Sample Type
303922 381709873-0011	Library Desk	0.5	10/24/2017 3:42:00 PM	10/26/2017 3:44:00 PM	73.4	45.1	Duplicate
Sample Notes: Duplicate's Customer Sample:381709873-0010							Duplicate RPD = 0.0%
303856 381709873-0012	Computer Lab	0.7	10/24/2017 3:43:00 PM	10/26/2017 3:44:00 PM	74	45	Customer
Sample Notes:							
303824 381709873-0013	Staff Room	0.6	10/24/2017 3:45:00 PM	10/26/2017 3:48:00 PM	78.9	43.9	Customer
Sample Notes:							
304033 381709873-0014	Principal	0.5	10/24/2017 3:47:00 PM	10/26/2017 3:50:00 PM	76.5	44.8	Customer
Sample Notes:							
303843 381709873-0015	Front Desk	0.6	10/24/2017 3:47:00 PM	10/26/2017 3:51:00 PM	73.8	43.1	Customer
Sample Notes:							
303814 381709873-0016	Special Ed	0.5	10/24/2017 3:48:00 PM	10/26/2017 3:51:00 PM	75.2	44.1	Customer
Sample Notes:							
303895 381709873-0017	Tutoring	0.5	10/24/2017 3:50:00 PM	10/26/2017 3:52:00 PM	75.3	44.3	Customer
Sample Notes:							
303904 381709873-0018	5th Grade	0.5	10/24/2017 3:50:00 PM	10/26/2017 3:53:00 PM	75.5	44	Customer
Sample Notes:							
303826 381709873-0019	4th Grade	0.3	10/24/2017 3:52:00 PM	10/26/2017 3:54:00 PM	75	45.5	Customer
Sample Notes:							
303914 381709873-0020	3rd Grade	0.7	10/24/2017 3:53:00 PM	10/26/2017 3:56:00 PM	75.5	46.4	Customer
Sample Notes:							
303957 381709873-0021	3rd Grade	0.7	10/24/2017 3:53:00 PM	10/26/2017 3:56:00 PM	75.5	46.4	Duplicate
Sample Notes: Duplicate's Customer Sample:381709873-0020							Duplicate RPD = 0.0%
303950 381709873-0022	Portable 6	0.2	10/24/2017 3:57:00 PM	10/26/2017 3:59:00 PM	71	46.6	Customer
Sample Notes:							
303949 381709873-0023	Portable 7	0.3	10/24/2017 3:59:00 PM	10/26/2017 3:59:00 PM	71.4	45.5	Customer
Sample Notes:							

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Test Report RadonCom-7.26.0 Printed: 11/2/2017 1:29:28 PM

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Test Report: Radon in Air Test Results

Liquid Scintillation ID	Location	Radon Activity (pCi/L)	Start	Stop	Temperature F	Humidity %	Sample Type
303921 381709873-0024	Portable 8	0.2	10/24/2017 3:59:00 PM	10/26/2017 4:00:00 PM	70.8	46.1	Customer
Sample Notes:							
303812 381709873-0025	Blank	0.03	10/24/2017 3:59:00 PM	10/26/2017 4:00:00 PM	0	0	Blank
Sample Notes:							
303890 381709873-0026	Office 1000	36.5	10/21/2017 7:16:00 AM	10/23/2017 7:16:00 AM	50	70.1	Customer
Sample Notes:							
303909 381709873-0027	Office 1001	37	10/21/2017 7:16:00 AM	10/23/2017 7:16:00 AM	50	70.1	Customer
Sample Notes:							

Report Notes

The United States Environmental Protection Agency (EPA) has established a radon action level of 4.0pCi/L. EPA recommends mitigation of a structure if the confirmed radon level is equal to or greater than 4.0pCi/L. The radon tests were performed using liquid scintillation radon detectors and counted on a liquid scintillation counter following EPA Method # 402-R-92-004 testing protocol for Radon in Air testing. EPA recommends retesting every two years. Please contact EMSL Analytical, Inc. or your State Health Department for further information. All procedures used for generating this report are in complete accordance with the current EPA protocols for the analysis of Radon in Air.

Analyst(s) _____

Racquel Hafiz (27)

Laura Freeman Peixue Ma
Laura Freeman, Radon Laboratory Manager &
Peixue Ma, Ph.D, NJ Radon Measurement Specialist NJ MES
13502

In no event shall EMSL be liable for indirect, special, consequential, or incidental damages, including, but not limited to, damages for loss of profit or goodwill regardless of the negligence (either sole or concurrent) of EMSL and whether EMSL has been informed of the possibility of such damages, arising out of or in connection with EMSL's services thereunder or the delivery, use, reliance upon or interpretation of test results by client or any third party. We accept no legal responsibility for the purposes for which the client uses the test results. In no event shall EMSL be liable to a client or any third party, whether based upon theories of tort, contract or any other legal or equitable theory, in excess of the amount paid to EMSL by client thereunder. The test results meets all NELAC requirements unless otherwise specified.

Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ Accreditations: NRSB ARL6006, NJ DEP 03036, MEB 92525, PA 2573, IN 00455, IA L00032, RI RAS-024, ME 20200C, NE RMB-1083, NY ELAP 10872, NM 885-10L, FL RB2034, OH RL-39, NRPP #109000AL, KS-LB-0005, IL RNL2008202.

Initial report from 11/02/2017 13:29:28

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