



Cascade Environmental LLC

4346 NE 73<sup>rd</sup> Avenue  
Portland, OR 97218

Phone 503 984 9737

[www.cascadenviro.com](http://www.cascadenviro.com)

August 2, 2019

Mr. Larry Hampton  
Newberg School District 29J  
703 South Blaine  
Newberg, OR 97132

**Re: Radon Testing & Analysis Report  
Mountain View Middle School  
2015 North Emery Drive  
Newberg, Oregon 97132  
Cascade Environmental Project No. 03112019-01**

Dear Mr. Hampton:

Cascade Environmental is pleased to present this letter report which details the findings of radon sampling conducted at the above referenced facility located in Newberg, Yamhill County, Oregon. The purpose of this study was to determine if levels of radon within the select subgrade and ground floor rooms are above the Environmental Protection Agency's (EPA) recommended action level for radon. The sampling was conducted in compliance with Oregon Revised Statute (ORS) 332.166-167. Sampling was conducted per the protocols provided in "Testing for Elevated Radon Levels in Oregon, A Protocol and Plan" (The protocol) produced by the Oregon Health Authority.

## Introduction

Radon is a naturally occurring colorless, odorless gas that is a by-product of the decay of radioactive materials potentially present in bedrock and soil. Radon gas may enter the lowest level of a building through floor cracks, structural joints, or plumbing conduits. The EPA's recommended action level for annual exposure to radon gas is 4.0 picoCuries per liter of air (pCi/L). This recommended action level is not a regulatory requirement, but is the level at which the EPA recommends that building owners take action to reduce the level.

## Sampling Methodology

Cascade Environmental conducted a survey for radon gas in all frequently occupied rooms in contact with the soil, whether the contact was slab-on-grade, a basement, a room above a crawl space or any combination of the above. A total of forty-one rooms were tested from March 11, 2019 through March 13, 2019. Sampling was conducted by Mr. Robert Burns, Industrial Hygienist with Cascade Environmental and Mr. Larry Hampton, District Risk Management Supervisor with Newberg School District. In addition, five duplicate samples, four blank samples and two spike samples were collected for quality control purposes per the protocol. The survey was performed to determine the potential presence of radon gas concentrations, and to develop recommendations for follow-up testing and/or potential mitigation systems as necessary. The canisters were left in place for no less than 48 hours and no longer than 96 hours, in accordance with the sampling protocol provided by the laboratory. The open canisters were placed at breathing air level under normal occupancy conditions. To ensure the canisters would be in place at the end of the sampling period, sample locations were identified in areas where the potential for disturbance was minimal. A total of fifty-six canisters (including duplicates, blanks, spikes and additional samples collected in rooms larger than 2,000 square feet) were collected, sealed, and forwarded for analysis to



AccuStar Labs in Medway, Massachusetts and were analyzed using EPA Method 402-R-92-004. The spike samples were submitted to the Kansas State University Radon Chamber, NRPP Certification ID Number SC-1006, to be "spiked" with a known amount of radon prior to submittal to AccuStar Labs for quality control purposes. The laboratory analytical reports are included in Appendix A.

The following tables summarize the results of the radon gas samples collected from the facility:

<b>Table 1</b> <b>Mountain View Middle School</b> <b>2015 North Emery Drive</b> <b>Newberg, Oregon 97132</b> <b>Radon Survey Results 2019</b>			
Sampler Number	Location	Floor	Results (pCi/L)
01	Main Office Area	Main	1.4
02	Health Room	Main	1.5
03	Office	Main	1.3
04	Vice Principals Office	Main	1.1
05	Vice Principals Office	Main	<0.4
06	Principal's Office	Main	1.0
07	Principal's Office	Main	1.0
08	Work Room	Main	0.6
09	Room 121	Main	0.6
10	Room 122	Main	0.6
11	Room 123	Main	0.4
12	Room 124	Main	0.7
13	Room 125	Main	1.2
14	Room 125	Main	<0.4
15	Room 111	Main	0.5
16	Room 112	Main	0.6
17	Room 113	Main	0.7
18	Resource Room	Main	1.1
19	Resource Room	Main	1.3
20	Room 101	Main	0.8
21	Room 102	Main	0.6
22	Room 103	Main	0.5
23	Room 104	Main	0.7



Table 1 Mountain View Middle School 2015 North Emery Drive Newberg, Oregon 97132 Radon Survey Results 2019			
Sampler Number	Location	Floor	Results (pCi/L)
49	Room 152	Main	0.8
50	Room 153	Main	2.0
51	Room 159	Main	0.4
52	Room 157	Main	0.5
53	Room 156	Main	0.6
54	Custodial	Main	1.3
55	Custodial	Main	1.2
56	Kitchen Office	Main	0.5

Table 2 Mountain View Middle School 2015 North Emery Drive Newberg, Oregon 97132 Spike Results		
Device Number	Spike Value (pCi/L) (Kansas State University)	Results (pCi/L) (AccuStar Labs)
4021132	13.4	11.7
4021133	13.4	12.1

## CONCLUSION

The short-term radon sample results for Mountain View Middle School, located at 2015 North Emery Drive in Newberg, Yamhill County, Oregon revealed concentrations of radon gas below the EPA's recommended action level of 4.0 pCi/L in all of the rooms tested. In addition, the results from the duplicates, blanks and spikes collected for quality control purposes were all within acceptable parameters per the protocol.

Based on the sample results, Cascade Environmental does not recommend further investigation at this time.

## LIMITATIONS

This report provides a summary of the evidence collected and observations made by Cascade Environmental during this assessment. Cascade Environmental performed short-term radon testing to evaluate impacts to selected areas at this single point in time. Actual radon concentrations can vary between sample points, site conditions and usage. This report is based upon the information developed by Cascade Environmental as a result of this one-time sampling and does not guarantee that the site is



**Table 1**  
**Mountain View Middle School**  
**2015 North Emery Drive**  
**Newberg, Oregon 97132**  
**Radon Survey Results 2010**

Sampler Number	Location	Floor	Results (pCi/L)
24	Counseling	Main	0.6
25	Counseling Office 1	Main	0.5
26	Counseling Office 2	Main	0.5
27	Counseling Office 2	Main	0.5
28	Library	Main	0.4
29	Library Conference Room	Main	0.5
30	Computer Lab	Main	0.5
31	Commons	Main	0.5
32	Commons	Main	Sample Damaged, Not Analyzed
33	Choir Room	Main	0.7
34	Music Office	Main	0.8
35	Music Office	Main	<0.4
36	Band Room	Main	0.7
37	No Sample	-	-
38	Gym	Main	Sample Damaged, Not Analyzed
39	Gym	Main	0.8
40	Gym	Main	0.8
41	Gym	Main	0.8
42	Gym	Main	0.9
43	Gym	Main	0.7
44	Gym Office Girls	Main	0.8
45	Gym Office Girls	Main	0.9
46	Gym Office Boys	Main	0.9
47	Room 150	Main	0.7
48	Room 151	Main	1.5

APPENDIX A

LABORATORY RESULTS &  
CHAIN OF CUSTODY DOCUMENTATION



free of radon or potentially hazardous materials or conditions, or that latent or undiscovered conditions will not become evident in the future.

Thank you for this opportunity to be of service to Newberg School District 29J. If you have any questions, please feel free to contact us at 503-984-9737 or via email at bob@cascadenviro.com.

Sincerely,  
**Cascade Environmental**

A handwritten signature in black ink, appearing to read "R. Burns".

Robert Burns  
Principal

Attachments: Appendix A – Laboratory Results and Chain-of-Custody Documentation  
Appendix B – Site Plan

NELAC NY 11769  
NRPP 103216 AL  
NRSB ARL0017

EPA Method #402-R-92-004  
Liquid Scintillation  
NRPP Device Code 8088  
NRSB Device Code 12193

Laboratory Report for:

Cascade Environmental  
4346 North East 73rd Avenue  
Portland OR 97218

Property Tested:

Mountain View Middle School  
2015 North Emery Drive  
Newberg OR 97132

Log Number	Device Number	Test Exposure Duration:	Area Tested	Result pCi/L
2451356	4021019	03/11/2019 7:15 am 03/13/2019 7:35 am	Floor Main Room 124	0.7
2451357	4021011	03/11/2019 7:16 am 03/13/2019 7:36 am	Floor Main Room 125	1.2
2451358	4021002	03/11/2019 7:16 am 03/13/2019 7:36 am	Floor Main Room Teacher Prep Blank	< 0.4
2451359	4021004	03/11/2019 7:19 am 03/13/2019 7:37 am	Floor Main Room 111	0.5
2451360	4021025	03/11/2019 7:20 am 03/13/2019 7:38 am	Floor Main Room 112	0.6
2451361	4021014	03/11/2019 7:21 am 03/13/2019 7:39 am	Floor Main Room 113	0.7
2451362	4021003	03/11/2019 7:23 am 03/13/2019 7:42 am	Floor Main Resource Room	1.1
2451363	4021016	03/11/2019 7:23 am 03/13/2019 7:42 am	Floor Main Resource Room Duplicate	1.3
2451364	4021029	03/11/2019 7:24 am 03/13/2019 7:42 am	Floor Main Room 101	0.8
2451365	4021006	03/11/2019 7:25 am 03/13/2019 7:44 am	Floor Main Room 102	0.6
2451366	4021024	03/11/2019 7:25 am 03/13/2019 7:44 am	Floor Main Room 103	0.5

**Comment:** Unable to report a result for 4021057. The charcoal insert was tampered with. Confidential: Release results to client only. Cascade Environmental was e-mailed a copy of this report.

Test Performed By: Robert Burns and Larry Hampton

Distributed by: Cascade Environmental

Date Received: 03/15/2019 Date Logged: 03/15/2019 Date Analyzed: 03/16/2019 Date Reported: 03/18/2019

Report Reviewed By: Michael Cleveland

Report Approved By: [Signature]  
Shawn Price, Director of Laboratory Operations, AccuStar Labs

**Disclaimer:**

The uncertainty of this radon measurement is +/- 10%. Factors contributing to uncertainty include statistical variations, daily and seasonal variations in radon concentrations, sample collection techniques and operation of the dwelling. Interference with test conditions may influence the test results.

This report may only be transferred to a third party in its entirety. Analytical results relate to the samples AS RECEIVED BY THE LABORATORY. Results shown on this report represent levels of radon gas measured between the dates shown in the room or area of the site identified above as "Property Tested". Incorrect information will affect results. The results may not be construed as either predictive or supportive of measurements conducted in any area of this structure at any other time. AccuStar Labs, its employees and agents are not responsible for the consequences of any action taken or not taken based upon the results reported or any verbal or written interpretation of the results.

NELAC NY 11769  
NRPP 103216 AL  
NRSB ARL0017

EPA Method #402-R-92-004  
Liquid Scintillation  
NRPP Device Code 8088  
NRSB Device Code 12193

Laboratory Report for:

Property Tested:

Cascade Environmental  
4346 North East 73rd Avenue  
Portland OR 97218

Mountain View Middle School  
2015 North Emery Drive  
Newberg OR 97132

Log Number	Device Number	Test	Exposure	Duration:	Area Tested	Result pCi/L
2451345	4021064	03/11/2019	7:05 am	03/13/2019 7:29 am	Floor Main Room Office Area	1.4
2451346	4021009	03/11/2019	7:06 am	03/13/2019 7:29 am	Floor Main Room Health	1.5
2451347	4021010	03/11/2019	7:07 am	03/13/2019 7:30 am	Floor Main Room Office	1.3
2451348	4021000	03/11/2019	7:08 am	03/13/2019 7:31 am	Floor Main Room Vice Principals Office	1.1
2451349	4021018	03/11/2019	7:08 am	03/13/2019 7:31 am	Floor Main Room Vice Principals Office Blank	< 0.4
2451350	4021060	03/11/2019	7:09 am	03/13/2019 7:32 am	Floor Main Room Principals Office	1.0
2451351	4021001	03/11/2019	7:09 am	03/13/2019 7:32 am	Floor Main Room Principals Office Duplicate	1.0
2451352	4021061	03/11/2019	7:10 am	03/13/2019 7:32 am	Floor Main Work Room	0.6
2451353	4021012	03/11/2019	7:12 am	03/13/2019 7:33 am	Floor Main Room 121	0.6
2451354	4021005	03/11/2019	7:13 am	03/13/2019 7:34 am	Floor Main Room 122	0.6
2451355	4021013	03/11/2019	7:14 am	03/13/2019 7:34 am	Floor Main Room 123	0.4

**Comment:** Unable to report a result for 4021057. The charcoal insert was tampered with. Confidential: Release results to client only. Cascade Environmental was e-mailed a copy of this report.

Test Performed By: Robert Burns and Larry Hampton

Distributed by: Cascade Environmental

Date Received: 03/15/2019 Date Logged: 03/15/2019 Date Analyzed: 03/16/2019 Date Reported: 03/18/2019

Report Reviewed By: Michael Cleveland

Report Approved By: Shawn Price

**Disclaimer:**

Shawn Price, Director of Laboratory Operations, AccuStar Labs

The uncertainty of this radon measurement is +/- 10%. Factors contributing to uncertainty include statistical variations, daily and seasonal variations in radon concentrations, sample collection techniques and operation of the dwelling. Interference with test conditions may influence the test results.

This report may only be transferred to a third party in its entirety. Analytical results relate to the samples AS RECEIVED BY THE LABORATORY. Results shown on this report represent levels of radon gas measured between the dates shown in the room or area of the site identified above as "Property Tested". Incorrect information will affect results. The results may not be construed as either predictive or supportive of measurements conducted in any area of this structure at any other time. AccuStar Labs, its employees and agents are not responsible for the consequences of any action taken or not taken based upon the results reported or any verbal or written interpretation of the results.



NELAC NY 11769  
NRPP 103216 AL  
NRSB ARL0017

EPA Method #402-R-92-004  
Liquid Scintillation  
NRPP Device Code 8088  
NRSB Device Code 12193

Laboratory Report for:

Property Tested:

Cascade Environmental  
4346 North East 73rd Avenue  
Portland OR 97218

Mountain View Middle School  
2015 North Emery Drive  
Newberg OR 97132

Log Number	Device Number	Test Exposure Duration:	Area Tested	Result pCi/L
2451378	4021058	03/11/2019 7:41 am 03/13/2019 7:57 am	Floor Main Room Music Office Blank	< 0.4
2451379	4021046	03/11/2019 7:43 am 03/13/2019 7:58 am	Floor Main Room Band	0.7
2451380	4021057	03/11/2019 7:50 am 03/13/2019 7:56 am	Floor Main Room Gym	Invalid
2451381	4021039	03/11/2019 7:47 am 03/13/2019 7:55 am	Floor Main Room Gym	0.8
2451382	4021043	03/11/2019 7:46 am 03/13/2019 7:54 am	Floor Main Room Gym	0.8
2451383	4021052	03/11/2019 7:44 am 03/13/2019 7:53 am	Floor Main Room Gym	0.9
2451384	4021045	03/11/2019 7:42 am 03/13/2019 7:51 am	Floor Main Room Gym	0.7
2451385	4021059	03/11/2019 7:39 am 03/13/2019 7:50 am	Floor Main Room Gym	0.8
2451386	4021031	03/11/2019 7:35 am 03/13/2019 7:48 am	Floor Main Room Gym Office Girls	0.9
2451387	4021033	03/11/2019 7:35 am 03/13/2019 7:48 am	Floor Main Room Gym Office Girls Duplicate	0.9
2451388	4021040	03/11/2019 7:34 am 03/13/2019 7:47 am	Floor Main Room Gym Office Boys	0.9

**Comment:** Unable to report a result for 4021057. The charcoal insert was tampered with. Confidential: Release results to client only. Cascade Environmental was e-mailed a copy of this report.

Test Performed By: Robert Burns and Larry Hampton

Distributed by: Cascade Environmental

Date Received: 03/15/2019 Date Logged: 03/15/2019 Date Analyzed: 03/16/2019 Date Reported: 03/18/2019

Report Reviewed By: Michael Cleveland

Report Approved By: Shawn Price  
Shawn Price, Director of Laboratory Operations, AccuStar Labs

**Disclaimer:**

The uncertainty of this radon measurement is +/- 10 %. Factors contributing to uncertainty include statistical variations, daily and seasonal variations in radon concentrations, sample collection techniques and operation of the dwelling. Interference with test conditions may influence the test results.

This report may only be transferred to a third party in its entirety. Analytical results relate to the samples AS RECEIVED BY THE LABORATORY. Results shown on this report represent levels of radon gas measured between the dates shown in the room or area of the site identified above as "Property Tested". Incorrect information will affect results. The results may not be construed as either predictive or supportive of measurements conducted in any area of this structure at any other time. AccuStar Labs, its employees and agents are not responsible for the consequences of any action taken or not taken based upon the results reported or any verbal or written interpretation of the results.

NELAC NY 11769  
NRPP 103216 AL  
NRSB ARL0017

EPA Method #402-R-92-004  
Liquid Scintillation  
NRPP Device Code 8088  
NRSB Device Code 12193

Laboratory Report for:

Property Tested:

Cascade Environmental  
4346 North East 73rd Avenue  
Portland OR 97218

Mountain View Middle School  
2015 North Emery Drive  
Newberg OR 97132

Log Number	Device Number	Test Exposure	Duration:	Area Tested	Result pCi/L
2451367	4021027	03/11/2019 7:27 am	03/13/2019 7:45 am	Floor Main Room 104	0.7
2451368	4021023	03/11/2019 7:28 am	03/13/2019 7:46 am	Floor Main Room Counseling	0.6
2451369	4021017	03/11/2019 7:29 am	03/13/2019 7:47 am	Floor Main Room Counseling Office 1	0.5
2451370	4021062	03/11/2019 7:30 am	03/13/2019 7:47 am	Floor Main Room Counseling Office 2	0.5
2451371	4021063	03/11/2019 7:30 am	03/13/2019 7:47 am	Floor Main Room Counseling Office 2 Duplicate	0.5
2451372	4021015	03/11/2019 7:31 am	03/13/2019 7:48 am	Floor Main Room Library	0.4
2451373	4021008	03/11/2019 7:32 am	03/13/2019 7:49 am	Floor Main Library Conference Room	0.5
2451374	4021028	03/11/2019 7:33 am	03/13/2019 7:50 am	Floor Main Room Computer Lab	0.5
2451375	4021020	03/11/2019 7:35 am	03/13/2019 7:51 am	Floor Main Room Commons	0.5
2451376	4021022	03/11/2019 7:40 am	03/13/2019 7:56 am	Floor Main Room Choir	0.7
2451377	4021026	03/11/2019 7:41 am	03/13/2019 7:57 am	Floor Main Room Music Choir Office	0.8

**Comment:** Unable to report a result for 4021057. The charcoal insert was tampered with. Confidential: Release results to client only. Cascade Environmental was e-mailed a copy of this report.

Test Performed By: Robert Burns and Larry Hampton

Distributed by: Cascade Environmental

Date Received: 03/15/2019    Date Logged: 03/15/2019    Date Analyzed: 03/16/2019    Date Reported: 03/18/2019

Report Reviewed By: Michelle Cleveland

Report Approved By: [Signature]

**Disclaimer:**

Shawn Price, Director of Laboratory Operations, AccuStar Labs

The uncertainty of this radon measurement is +/- 10%. Factors contributing to uncertainty include statistical variations, daily and seasonal variations in radon concentrations, sample collection techniques and operation of the dwelling. Interference with test conditions may influence the test results.

This report may only be transferred to a third party in its entirety. Analytical results relate to the samples AS RECEIVED BY THE LABORATORY. Results shown on this report represent levels of radon gas measured between the dates shown in the room or area of the site identified above as "Property Tested". Incorrect information will affect results. The results may not be construed as either predictive or supportive of measurements conducted in any area of this structure at any other time. AccuStar Labs, its employees and agents are not responsible for the consequences of any action taken or not taken based upon the results reported or any verbal or written interpretation of the results.

NELAC NY 11769  
NRPP 103216-AL  
NRSB ARL0017

EPA Method #402-R-92-004  
Liquid Scintillation  
NRPP Device Code 8088  
NRSB Device Code 12193

Laboratory Report for:

Property Tested:

Cascade Environmental  
4346 North East 73rd Avenue  
Portland OR 97218

Mountain View Middle School  
2015 North Emery Drive  
Newberg OR 97132


Log Number	Device Number	Test Exposure	Duration	Area Tested	Result pCi/L
2496801	4021132	05/15/2019 11:15 am	05/17/2019 11:15 am	First Floor Band Room	11.7
2496802	4021133	05/15/2019 11:16 am	05/17/2019 11:16 am	First Floor Band Office	12.1

**Comment:** Confidential: Release results to client only. Cascade Environmental was e-mailed a copy of this report.

Test Performed By: Robert Burns

Distributed by: Cascade Environmental

Date Received: 05/22/2019    Date Logged: 05/22/2019    Date Analyzed: 05/23/2019    Date Reported: 05/23/2019

Report Reviewed By: 

Report Approved By:   
Shawn Price, Director of Laboratory Operations, AccuStar Labs

**Disclaimer:**

The uncertainty of this radon measurement is +/- 10 %. Factors contributing to uncertainty include statistical variations, daily and seasonal variations in radon concentrations, sample collection techniques and operation of the dwelling. Interference with test conditions may influence the test results.

This report may only be transferred to a third party in its entirety. Analytical results relate to the samples AS RECEIVED BY THE LABORATORY. Results shown on this report represent levels of radon gas measured between the dates shown in the room or area of the site identified above as "Property Tested". Incorrect information will affect results. The results may not be construed as either predictive or supportive of measurements conducted in any area of this structure at any other time. AccuStar Labs, its employees and agents are not responsible for the consequences of any action taken or not taken based upon the results reported or any verbal or written interpretation of the results.

NELAC NY 11769  
NRPP 103216 AL  
NRSB ARL0017

EPA Method #402-R-92-004  
Liquid Scintillation  
NRPP Device Code 8088  
NRSB Device Code 12193

Laboratory Report for:

Property Tested:

Cascade Environmental  
4346 North East 73rd Avenue  
Portland OR 97218

Mountain View Middle School  
2015 North Emery Drive  
Newberg OR 97132

Log Number	Device Number	Test Exposure	Duration:	Area Tested	Result pCi/L
2451389	4021048	03/11/2019 7:32 am	03/13/2019 7:46 am	Floor Main Room 150	0.7
2451390	4021054	03/11/2019 7:27 am	03/13/2019 7:44 am	Floor Main Room 151	1.5
2451391	4021042	03/11/2019 7:26 am	03/13/2019 7:43 am	Floor Main Room 152	0.8
2451392	4021047	03/11/2019 7:24 am	03/13/2019 7:42 am	Floor Main Room 153	2.0
2451393	4021069	03/11/2019 7:21 am	03/13/2019 7:41 am	Floor Main Room 159	0.4
2451394	4021038	03/11/2019 7:19 am	03/13/2019 7:38 am	Floor Main Room 157	0.5
2451395	4021050	03/11/2019 7:15 am	03/13/2019 7:57 am	Floor Main Room 156	0.6
2451396	4021034	03/11/2019 7:10 am	03/13/2019 7:33 am	Floor Main Room Custodial	1.3
2451397	4021037	03/11/2019 7:10 am	03/13/2019 7:33 am	Floor Main Room Custodial Duplicate	1.2
2451398	4021030	03/11/2019 7:07 am	03/13/2019 7:29 am	Floor Main Room Kitchen Office	0.5
2451399	4021021	03/11/2019	03/13/2019	Not Indicated	

**Comment:** Unable to report a result for 4021057. The charcoal insert was tampered with. Confidential: Release results to client only. Cascade Environmental was e-mailed a copy of this report.

Test Performed By: Robert Burns and Larry Hampton

Distributed by: Cascade Environmental

Date Received: 03/15/2019 Date Logged: 03/15/2019 Date Analyzed: 03/16/2019 Date Reported: 03/18/2019

Report Reviewed By: Michelle Cleveland

Report Approved By: [Signature]

**Disclaimer:**

Shawn Price, Director of Laboratory Operations, AccuStar Labs

The uncertainty of this radon measurement is +/- 10%. Factors contributing to uncertainty include statistical variations, daily and seasonal variations in radon concentrations, sample collection techniques and operation of the dwelling. Interference with test conditions may influence the test results.

This report may only be transferred to a third party in its entirety. Analytical results relate to the samples AS RECEIVED BY THE LABORATORY. Results shown on this report represent levels of radon gas measured between the dates shown in the room or area of the site identified above as "Property Tested". Incorrect information will affect results. The results may not be construed as either predictive or supportive of measurements conducted in any area of this structure at any other time. AccuStar Labs, its employees and agents are not responsible for the consequences of any action taken or not taken based upon the results reported or any verbal or written interpretation of the results.

Mountain View Middle School  
 2015 N. Emery Drive  
 Newberg, Oregon 97132  
 Radon Testing 2019

Start Date: 3/11/19

Stop Date: 5.13.19

Tester Name(s): Robert Burns & Larry Hampton

Lab Use Only	Sample #	Device #	Floor	Room	Start Time	Stop Time	Comments	Lab Use
	1	4021064	Main	Main Office Area	07:05	07:29	counter	
	2	4021 009	Main	Health Room	07:06	07:29	key box	
	3	4021 010	Main	Office	07:07	07:30	file cabinet	
	4	4021 000	Main	Vice Principals Office	07:08	07:31	shelf	
	5	4021 018	Main	Vice Principals Office	07:08	07:31	Blank	
	6	4021 060	Main	Principals Office	07:09	07:32	shelf	
	7	4021 001	Main	Principals Office	07:09	07:32	Duplicate	
	8	4021 061	Main	Work Room	07:10	07:32	table	
	9	4021 012	Main	Room 121	07:12	07:33	widde table	
	10	4021 005	Main	Room 122	07:13	07:34	teacher desk	
	11	4021 013	Main	Room 123	07:14	07:34	green cabinet	
	12	4021 019	Main	Room 124	07:15	07:35	teacher desk	



Mountain View Middle School  
 2015 N. Emery Drive  
 Newberg, Oregon 97132  
 Radon Testing 2019

057 0755

Lab Use Only	Sample #	Device #	Floor	Room	Start Time	Stop Time	Comments	Lab Use
	28	4021 015	Main	Library	07:31	0748	teacher desk	
	29	4021 008	Main	Library Conference Room	07:32	0749	shelf	
	30	4021 028	Main	Computer Lab	07:33	0750	desk	
	31	4021 020	Main	Commons	07:35	0751	Between 2,000 and 4,000 SF brown cabinets	
	32	4021 007	Main	Commons	07:35	0756	Desktop/micro wave	
	33	4021 022	Main	Choir Room	07:40	0756	file cabinet	
	34	4021 026	Main	Music Office Choir Office	07:41	0757	desk	
	35	4021 058	Main	Music Office Choir Office	07:41	0757	Blank	
	36	4021 046	Main	Band Room	07:43	0758	front	
	<del>37</del>	<del>4021</del>	Main	<del>Band Office</del>			NO Sample	
	38	4021 057	Main	Gym	0750	0756	Between 10,000 and 12,000	
	39	4021 039	Main	Gym	0747	0755		
	40	4021 043	Main	Gym	0746	0754		
	41	4021 052	Main	Gym	0744	0753		
	42	4021 045	Main	Gym	0742	0751		



Mountain View Middle School  
 2015 N. Emery Drive  
 Newberg, Oregon 97132  
 Radon Testing 2019

Lab Use Only	Sample #	Device #	Floor	Room	Start Time	Stop Time	Comments	Lab Use
	13	4021 011	Main	<del>Teacher Prep (125?)</del>	07:16	07:36	file cabinet	
	14	4021 002	Main	Teacher Prep (125?)	07:16	07:36	Blank	
	15	4021 004	Main	Room 111	07:19	07:37	top of cabinet	
	16	4021 025	Main	Room 112	07:20	07:38	teacher desk	
	17	4021 014	Main	Room 113	07:21	07:39	phone	
	18	4021 003	Main	Teacher Prep (105?) <del>Resource Rm</del>	07:23	07:42	desk	
	19	4021 016	Main	Teacher Prep (105?) <del>Resource Rm</del>	07:23	07:42	Duplicate	
	20	4021 029	Main	Room 101	07:24	07:42	phone	
	21	4021 006	Main	Room 102	07:25	07:44	teacher cabinet	
	22	4021 024	Main	Room 103	07:25	07:44	teacher desk	
	23	4021 027	Main	Room 104	07:27	07:45	phone	
	24	4021 023	Main	Counseling	07:28	07:46	phone	
	25	4021 017	Main	Counseling Office (1)R	07:29	07:47	book shelf	
	26	4021 062	Main	Counseling Office (2)R	07:30	07:47	cabinet	
	27	4021 063	Main	Counseling Office (2)R	07:30	07:47	Duplicate	



**Start test before expiration date on device or result will be invalid.**

Radon In Air Test Data Sheet

Send Written Report To:

Cascade Environmental  
4346 1/2 3rd Ave  
Lancaster PA 17602

Project Number:  
Site Name  
Address  
City State Zip

Mountain View Middle School  
2015 N. Emery Drive  
Newberg, PA 17052

Contact: Robert Burtel  
E-Mail Address: bob@casadenvironment.com

Person Conducting Test:

Robert Burtel

Start Date: 5/15/19 Stop Date: 5/17/19

Start and Stop Times and Dates must be entered

Lab Use Only	Device Number	Building #	Unit #	Floor	Name of Room	Start Time	Stop Time	Lab Use
	4021132	-	-	1st	Band	1115	1115	
	4021133	-	-	1st	Band office	1116	1116	

Mountain View Middle School  
 2015 N. Emery Drive  
 Newberg, Oregon 97132  
 Radon Testing 2019

Lab Use Only	Sample #	Device #	Floor	Room	Start Time	Stop Time	Comments	Lab Use
	43	4021 <del>030</del> 059	Main	Gym	0739	0750	W	
	44	4021 031	Main	Gym Office Girls?	0735	0748		
	45	4021 033	Main	Gym Office Girls?	0735	0748	Duplicate	
	46	4021 040	Main	Gym Office Boys?	0734	0747		
	47	4021 048	Main	Room 150	0732	0746	above sink	
	48	4021 054	Main	Rom 151	0727	0744	By Sink	
	49	4021 042	Main	Room 152	0726	0743	By Sink	
	50	4021 047	Main	Room 153	0724	0742	shut milk with the Board	
	51	4021 069	Main	Extra Class 159? Room 159	0721	0741	By Sink	
	52	4021 038	Main	Room 157	0719	0738	By Sink	
	53	4021 050	Main	Shop Room 156	0715	0754	Labwork	
	54	4021 034	Main	Custodial	0710	0733	Perkins Group	
	55	4021 037	Main	Custodial	0710	0733	Duplicate	
	56	4021 030	Main	Kitchen Office	0707	0729	Book shelf	
		4021						

Disclaimer for Spiking or Performance Testing Using KSU Radon Chamber

To all potential customers considering having a spiking or performance test done by the AARST-NRPP approved chamber operated by KSU Radon Chamber:

KSU Radon Chamber pledges to perform all performance tests as accurately as current science allows and to do so regardless of which device the client provides. We will follow your instructions regarding the methodology used to expose your device. We will monitor the radon, temperature, humidity and barometric pressure during the exposure period and report these numbers to you. If, for some reason, we do not maintain the chamber to within specs during the exposure, or if we do not expose your device per your instructions, we will redo the spike or performance test at no cost to you, including paying for any shipping. **Our liability is limited to the above costs.**

Specifications that are currently in place for our chamber are:

- 1) The radon will be kept at a constant value (within 10% COV) during the exposure.
- 2) The temperature will be kept at a constant value (72 degrees +/- 2 degrees) during the exposure.
- 3) The humidity will be kept between 20% and 50% during the exposure and the average humidity reported to you.
- 4) The radon concentration will be verified at the beginning of exposure and at the end of exposure (and every 72 hours during exposure) by a pair of grab samples read with an EPA inter-compared measuring system.

KSU Radon Chamber is not responsible for any other costs incurred by you or any consequential, indirect or special damages. You, the client, must insure your device prior to shipping or mailing if you are concerned about shipping damage.

Further, KSU Radon Chamber cannot guarantee that you will pass every performance test and spike test. KSU Radon Chamber is not liable in any way for losses you may suffer as a result of failing a performance test or a spiking test, except that we will redo a spike or performance test if the failure is ours (as discussed in the first paragraph above) at no cost to you.

Robert Burns



5/13/19

(Client's Printed Name)

(Client's Signature)

(Date)

AARST-NRPP Due Date

1st Time Tester

***This disclaimer must have a printed name, a signature and a date, and be returned to KSU Radon Chamber before spiking or performance testing will begin.***

Robert Burns  
Cascade Environmental  
503-984-9737  
bob@cascadenviro.com

**Address**  
4346 NE 73rd Avenue  
Portland, OR. 97218

**I have read and understand the Disclaimer for KSU Radon Chamber Services.**  
Yes

**NRPP/State Certification Number**  
NA

**Type of Service**  
Spike

**Number of Devices to Spike**  
5

**Device 1 Details (Make and Model and Serial Number)**  
liquid scintillation Canister #4021132

**Device 2 Details (Make and Model and Serial Number)**  
liquid scintillation Canister #4021133

**Device 3 Details (Make and Model and Serial Number)**  
liquid scintillation Canister #4021134

**Device 4 Details (Make and Model and Serial Number)**  
liquid scintillation Canister #4021135

**Device 5 Details (Make and Model and Serial Number)**  
liquid scintillation Canister #4021136

**Length of Exposure**  
48 Hours

**Date On or Before Which Your Device Will Arrive at KSU Radon Chamber**

- Tue, 05/14/2019



APPENDIX B

SITE PLAN