

Coleman Creek Consulting, Inc.

**INITIAL RADON AIR SAMPLING  
OF  
GILCHRIST SCHOOL  
FOR  
KLAMATH COUNTY SCHOOL DISTRICT  
2845 GREENSPRINGS DRIVE, KLAMATH FALLS, OREGON**

**INTRODUCTION**

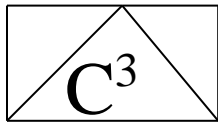
Coleman Creek Consulting, Inc. (CCC) was retained by Klamath County School District (KCSD) to perform radon air sampling as required by State Statute ORS 332.166-167. KCSD is required to perform complete radon air testing of District owned and occupied facility buildings by January 1, 2021. The purpose of the initial radon air sampling was to collect radon air samples from all regularly occupied rooms within school buildings, with the exception of storage, restrooms, kitchen, locker rooms, and compare analytical results with the EPA recommended “Action Level” concentration for radon. Short-term radon air sampling was selected for this project.

**RADON INFORMATION AND HEALTH EFFECTS**

Radon is a naturally occurring radioactive gas that is produced by natural deposits of uranium in soil, and is found world-wide. Uranium naturally decays into Radium, and Radium can produce Radon gas. Radon gas can travel up through soil and enter buildings in contact with soil. Radon gas entering a building may become concentrated in the lowest part of the building in areas with little fresh air mixing. If radon is inhaled into lungs, particle decay processes can release radiation, potentially damaging lung tissue, and over time leading to lung cancer. The Environmental Protection Agency (EPA) has estimated that Radon is the primary cause of lung cancer among non-smokers. EPA recommends reducing the concentration of Radon in indoor environments to below the Action Level of 4.0 pCi/L (pico-curies per Liter of air).

**INITIAL RADON AIR SAMPLING**

David W. Fawcett of CCC trained KCSD employees, including school custodians in radon sampling procedures December 4, 2020. Rodney Ingram, Gilchrist School (GS) Custodian placed radon air test kits in the GS buildings at the beginning of the day, December 7, 2020. A total of 51 locations were sampled according to guidelines established in the Oregon Health Authority (OHA) “Testing for Elevated Radon in Oregon Schools, A Protocol and Plan”, dated 2016. Mr. Ingram returned to GS December 10, 2020, at the beginning of the day, and collected all radon test kits placed for sampling. See Radon Air Sample Record Sheets (pages 4-6) for locations of all areas sampled. All samples collected were packaged by Mr. Fawcett, and sent overnight to Air Chek, Inc., in Mills River, North Carolina for analysis.



## LABORATORY ANALYSIS RESULTS

The radon air test kit samples collected from GS buildings were reported ranging from <0.3 to 2.2 pCi/L (picocuries per liter of air). A complete listing of laboratory results and locations is found in the Air Chek, Inc. Laboratory Analysis Report in Appendix A.

## QUALITY ASSURANCE

To ensure that test results are reliable and accurate, quality assurance samples, including duplicate test kits (placed in same room), blank test kits (not sampled at all), and spike sampling (exposing test kits to a measured amount of radon prior to laboratory submission) were all employed during Radon sampling. The number of duplicate, blank, and spike test kits utilized during sampling followed OHA testing protocol guidelines.

## DUPLICATE TEST KITS

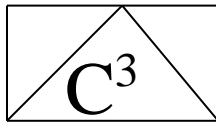
A total of five duplicate test kits were placed during initial test kit sampling. See duplicate designation on the Radon Air Sample Record Sheets. The five duplicate test kit sets were reported with paired concentrations of <0.3/<0.3 pCi/L, 0.7/0.6 pCi/L, 0.8/0.7 pCi/L, <0.3/<0.3 pCi/L, and 0.7/0.5 pCi/L. The Relative Percent Difference for each pair was 0%, 15%, 13%, 0%, and 33%. Four of the pairs were within the expected range of 0-25% Relative Percent Difference, with the other pair reported with a concentration <2.0 pCi/L, indicating Radon concentrations were too low to apply the Relative Percent Difference test.

## BLANK TEST KITS

Two blank test kits were submitted to Air Chek with the other GS Radon test kits. Both blank test kits were reported with <0.3 pCi/L. All blank tests were reported none detected for Radon.

## SPIKE TEST KIT ANALYSIS

Two test kits were submitted to Bowser-Morner for Radon Spike processing. The test kits were exposed to 25.7 pCi/L for three days from December 4 through December 7, 2020. See Appendix B for the Bowser-Morner Radon Exposure test information. The “Spiked” test kits were submitted to Air Chek for analysis along with the other GS Radon test kits. The Spike samples were reported with 14.9 pCi/L and 13.0 pCi/L. The relative percentage error was calculated to be -42% and 49%, both in the out of control range (greater than -30%). The Spike lab Bowser-Moerner was contacted, and did not report any unusual occurrence during Spike activities. The analytical lab (Air Chek) was contacted, and no unusual occurrences were noted during test kit analysis. Spike test kits were shipped twice during cold temperatures, and that may have had an effect on the Spike sample results. In addition, the complete KCSD Spike sample results exhibit a rather uniform grouping, with results ranging from 13.0 to 17.3 pCi/L, all below the Spiked concentration of 25.7 pCi/L. The Spike samples are identified as Serial #9418226 and Serial #9418250 on the Laboratory Analysis Report in Appendix A.



## **RADON RESULTS AND FUTURE ACTIONS**

The 2016 OHA Testing of Elevated Radon in Oregon Schools Protocol and Plan describes future steps to take based on initial Radon sample results. The following is a description of recommended actions based on Radon concentrations reported.

1. If <2.0 pCi/L Radon is reported, ORS 332.166-167 requires Radon re-test every 10 years.
2. If 2.0 pCi/L to 4.0 pCi/L Radon is reported, consider lowering the Radon concentration in the room.
3. If 4.0 pCi/L to 8.0 pCi/L Radon is reported, perform follow-up Radon measurement in the affected room(s) using a long-term test. Conduct over the school year as much as possible. If that result is equal to or greater than 4.0 pCi/L, Radon concentration in the room should be lowered.
4. If equal to or greater than 8.0 pCi/L Radon is reported, conduct a second short-term test and average the result with the initial Radon result. If the average result of the two short-term tests is equal to or greater than equal to or greater than 4.0 pCi/L, Radon concentration in the room should be lowered.

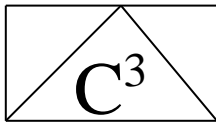
## **DISCUSSION OF INTIAL RADON SAMPLING RESULTS**

The initial Radon short-term sampling in Gilchrist School buildings were reported with Radon concentrations ranging from <0.3 to 0.9 pCi/L. All Radon test kit samples were reported < 4.0 pCi/L, indicating that a re-test should be performed in 10 years.

CCC appreciates the opportunity to provide initial radon air testing and consulting to Klamath County School District.

Sincerely,

David W. Fawcett  
Director of Consulting Operations



# Coleman Creek Consulting, Inc.

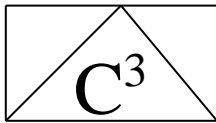
## RADON AIR SAMPLE RECORD SHEET

SCHOOL: Gilchrist School  
ADDRESS: 201 Mountain View Drive  
Gilchrist, Oregon

DATE: 12-07-20/12-10-20  
SAMPLER: Rodney Ingram

SERIAL #	BUILDING	Duplicate	LOCATION	START TIME	STOP TIME
9418192	Elementary		<b>1 – Elementary Office</b>	0655	0615
9418193	Elementary		<b>2 – Principal Office</b>	0658	0616
9418194	Elementary		<b>3 – Back Office</b>	0659	0617
9418195	Elementary		<b>4 – Room 2</b>	0700	Destroyed
9418196	Elementary		<b>5 – Room 4</b>	0702	0620
9418197	Elementary		<b>6 – Room 3</b>	0705	0624
9418198	Elementary		<b>7 – Room 5 Office</b>	0708	0626
9418199	Elementary		<b>8 – Room 5</b>	0710	0627
9418200	Elementary		<b>9 – Room 6</b>	0712	0630
9418201	Elementary		<b>10 – Room 5</b>	0715	0631
9418202	Elementary	Yes	<b>10 – Room 5</b>	0715	0631
9418203	Elementary		<b>11 – Room 8</b>	0721	0634
9418204	Elementary		<b>12 – Room 7</b>	0723	0635
9418205	Elementary		<b>13 – Room 10</b>	0726	0640
9418206	Elementary		<b>14 – Room 12</b>	0738	0643
9418207	Elementary		<b>15 – Room 14</b>	0740	0644
9418208	Elementary		<b>16 – Multipurpose Room</b>	0733	0645
9418209	Elementary		<b>17 – Room 9</b>	0734	0650
9418210	Elementary		<b>18 – Room 11</b>	0736	0651
9418211	Elementary		<b>19 – Room 11 Office</b>	0738	0652
9418212	Elementary		<b>20 – Room 13</b>	0740	0654
9418213	Elementary	Yes	<b>20 – Room 13</b>	0741	0655

Comments: **Spike Sample =**  
**Blank Sample = 9418214**



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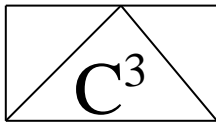
## RADON AIR SAMPLE RECORD SHEET

SCHOOL: Gilchrist School  
ADDRESS: 201 Mountain View Drive  
Gilchrist, Oregon

DATE: 12-07-20/12-10-20  
SAMPLER: Rodney Ingram

SERIAL #	BUILDING	Duplicate	LOCATION	START TIME	STOP TIME
9418215	Cafeteria		<b>21 – Cafeteria</b>	0749	0700
9418216	Music		<b>22 – Music Room</b>	0751	0702
9418217	Music		<b>23 – Room 1</b>	0754	0704
9418218	Music		<b>24 – Room 2</b>	0756	0705
9418219	Original		<b>25 – Room 3</b>	0802	0710
9418220	Original		<b>26 – Library</b>	0805	0711
9418221	Original		<b>27 – Copy Room</b>	0807	0712
9418222	Original		<b>28 – Room 5</b>	0809	0713
9418223	Original		<b>29 – Room 7</b>	0810	0716
9418224	Original		<b>30 – Custodial Office</b>	0812	0719
9418225	Original	Yes	<b>30 – Custodial Office</b>	0813	0719
9418227	Original		<b>31 – Office Reception</b>	0814	0720
9418228	Original		<b>32 – Principal Office</b>	0816	0721
9418229	Original		<b>33 – Office</b>	0818	0725
9418230	Original		<b>34 – Office</b>	0820	0730
9418231	Original		<b>35 – Room 15</b>	0823	0731
9418232	Original		<b>36 – Room 17</b>	0826	0732
9418233	Original		<b>37 – Room 26</b>	0827	0733
9418234	Original		<b>38 – Room 19</b>	0830	0734
9418235	Original		<b>39 – Room 28</b>	0831	0736
9418236	Original		<b>40 – Room 30</b>	0835	0740
9418237	Original	Yes	<b>40 – Room 30</b>	0836	0740

Comments: **Spike Sample = 9418226**  
**Blank Sample = 9418238**



# Coleman Creek Consulting, Inc.

## RADON AIR SAMPLE RECORD SHEET

SCHOOL: Gilchrist School  
ADDRESS: 201 Mountain View Drive  
Gilchrist, Oregon

DATE: 12-07-20/12-10-20  
SAMPLER: Rodney Ingram

SERIAL #	BUILDING	Duplicate	LOCATION	START TIME	STOP TIME
9418239	Original		<b>41 – Room 30 Office</b>	0838	0742
9418240	Original		<b>42 – Room 32</b>	0840	0744
9418241	Original		<b>43 – Weight Room</b>	0844	0745
9418242	Original		<b>44 – Gym</b>	0846	0750
9418243	Original		<b>45 – Gym Stage</b>	0847	0751
9418244	Clinic		<b>46 – Reception</b>	1030	0800
9418245	Clinic		<b>47 – Exam 1</b>	1032	0802
9418246	Clinic		<b>48 – Exam 2</b>	1033	0803
9418247	Clinic		<b>49 – Office</b>	1035	0804
9418248	Shop		<b>50 – Classroom</b>	1045	0806
9418249	Shop	Yes	<b>50 – Classroom</b>	1046	0806
9418251	Shop		<b>51 – Shop</b>	1048	0807

Comments: **Spike Sample = 9418250**  
**Blank Sample =**

## **APPENDIX A**

### **AIR CHEK LABORATORY ANALYSIS REPORT**

December 24, 2020

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

Radon test result report for:  
**GILCHRIST SCHOOL**  
**20570500**

Kit #	Room Id	Started	Ended	pCi/L	Analyzed
9418192	EL OFFICE	2020-12-07 @ 7:00 am	2020-12-10 @ 6:00 am	< 0.3	2020-12-15
9418193	ES PRIN.	2020-12-07 @ 7:00 am	2020-12-10 @ 6:00 am	< 0.3	2020-12-15
9418194		2020-12-07 @ 7:00 am	2020-12-10 @ 6:00 am	0.7 ± 0.4	2020-12-15
9418196	ES 4	2020-12-07 @ 7:00 am	2020-12-10 @ 6:00 am	1.1 ± 0.4	2020-12-15
9418197	ES 9	2020-12-07 @ 7:00 am	2020-12-10 @ 6:00 am	0.8 ± 0.4	2020-12-15
9418198	LIBRARY	2020-12-07 @ 7:00 am	2020-12-10 @ 6:00 am	0.7 ± 0.4	2020-12-15
9418199	LIB OFFICE	2020-12-07 @ 7:00 am	2020-12-10 @ 6:00 am	0.5 ± 0.4	2020-12-15
9418200	ES 6	2020-12-07 @ 7:00 am	2020-12-10 @ 7:00 am	< 0.3	2020-12-15
9418201	ES 5	2020-12-07 @ 7:00 am	2020-12-10 @ 7:00 am	< 0.3	2020-12-15
9418202	ES 5	2020-12-07 @ 7:00 am	2020-12-10 @ 7:00 am	< 0.3	2020-12-15
9418203	ES 8	2020-12-07 @ 7:00 am	2020-12-10 @ 7:00 am	< 0.3	2020-12-15
9418204	ES 7	2020-12-07 @ 7:00 am	2020-12-10 @ 7:00 am	< 0.3	2020-12-15
9418205	ES 10	2020-12-07 @ 7:00 am	2020-12-10 @ 7:00 am	< 0.3	2020-12-15
9418206	ES 12	2020-12-07 @ 7:00 am	2020-12-10 @ 7:00 am	< 0.3	2020-12-15
9418207	ES 14	2020-12-07 @ 8:00 am	2020-12-10 @ 7:00 am	< 0.3	2020-12-15
9418208	ES MULTI	2020-12-07 @ 8:00 am	2020-12-10 @ 7:00 am	< 0.3	2020-12-15
9418209	ES 9	2020-12-07 @ 8:00 am	2020-12-10 @ 7:00 am	0.5 ± 0.4	2020-12-15
9418210	ES 11	2020-12-07 @ 8:00 am	2020-12-10 @ 7:00 am	0.7 ± 0.4	2020-12-15
9418211		2020-12-07 @ 8:00 am	2020-12-10 @ 7:00 am	1.2 ± 0.5	2020-12-15
9418212	ES 13	2020-12-07 @ 8:00 am	2020-12-10 @ 7:00 am	0.7 ± 0.4	2020-12-15
9418213	ES 13	2020-12-07 @ 8:00 am	2020-12-10 @ 7:00 am	0.6 ± 0.4	2020-12-15



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December 24, 2020

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

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Radon test result report for:  
**GILCHRIST SCHOOL**  
**20570501**

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<b>Kit #</b>	<b>Room Id</b>	<b>Started</b>	<b>Ended</b>	<b>pCi/L</b>	<b>Analyzed</b>
9418214	ES 13	2020-12-07 @ 8:00 am	2020-12-10 @ 7:00 am	< 0.3	2020-12-15
9418215	CAFETERIA	2020-12-07 @ 8:00 am	2020-12-10 @ 7:00 am	< 0.3	2020-12-15

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December 24, 2020

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

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Radon test result report for:  
**GILCHRIST SCHOOL**  
**20570502**

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<b>Kit #</b>	<b>Room Id</b>	<b>Started</b>	<b>Ended</b>	<b>pCi/L</b>	<b>Analyzed</b>
9418216	MUSIC	2020-12-07 @ 8:00 am	2020-12-10 @ 7:00 am	0.8 ± 0.4	2020-12-15
9418217	HS 1	2020-12-07 @ 8:00 am	2020-12-10 @ 7:00 am	0.9 ± 0.4	2020-12-15
9418218	HS 2	2020-12-07 @ 8:00 am	2020-12-10 @ 7:00 am	0.7 ± 0.4	2020-12-15

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Radon test result report for:  
**GILCHRIST SCHOOL**  
**20570700**

Kit #	Room Id	Started	Ended	pCi/L	Analyzed
9418219	HS 3	2020-12-07 @ 8:00 am	2020-12-10 @ 7:00 am	0.5 ± 0.4	2020-12-15
9418220	HS LIBRARY	2020-12-07 @ 8:00 am	2020-12-10 @ 7:00 am	< 0.3	2020-12-15
9418221	COPY RM	2020-12-07 @ 8:00 am	2020-12-10 @ 7:00 am	< 0.3	2020-12-15
9418222	HS 5	2020-12-07 @ 8:00 am	2020-12-10 @ 7:00 am	< 0.3	2020-12-15
9418223	HS 7	2020-12-07 @ 8:00 am	2020-12-10 @ 7:00 am	< 0.3	2020-12-15
9418224	CUSTODIAL	2020-12-07 @ 8:00 am	2020-12-10 @ 7:00 am	0.8 ± 0.4	2020-12-15
9418225	CUSTODIAL	2020-12-07 @ 8:00 am	2020-12-10 @ 7:00 am	0.7 ± 0.4	2020-12-15
9418226	CUSTODIAL	2020-12-07 @ 8:00 am	2020-12-10 @ 7:00 am	14.9 ± 1.0	2020-12-15
9418227	HS OFFICE	2020-12-07 @ 8:00 am	2020-12-10 @ 7:00 am	< 0.3	2020-12-15
9418228	HS PRIN.	2020-12-07 @ 8:00 am	2020-12-10 @ 7:00 am	< 0.3	2020-12-15
9418229	OFFICE	2020-12-07 @ 8:00 am	2020-12-10 @ 7:00 am	< 0.3	2020-12-15
9418230	OFFICE	2020-12-07 @ 8:00 am	2020-12-10 @ 8:00 am	< 0.3	2020-12-15
9418231	HS 15	2020-12-07 @ 8:00 am	2020-12-10 @ 8:00 am	1.0 ± 0.4	2020-12-15
9418232	HS 17	2020-12-07 @ 8:00 am	2020-12-10 @ 8:00 am	< 0.3	2020-12-15
9418233	HS 26	2020-12-07 @ 8:00 am	2020-12-10 @ 8:00 am	< 0.3	2020-12-15
9418234	HS 19	2020-12-07 @ 9:00 am	2020-12-10 @ 8:00 am	< 0.3	2020-12-15
9418235	HS 28	2020-12-07 @ 9:00 am	2020-12-10 @ 8:00 am	< 0.3	2020-12-15
9418236	HS 31	2020-12-07 @ 9:00 am	2020-12-10 @ 8:00 am	< 0.3	2020-12-15
9418237	HS 31	2020-12-07 @ 9:00 am	2020-12-10 @ 8:00 am	< 0.3	2020-12-15
9418238	HS 31	2020-12-07 @ 9:00 am	2020-12-10 @ 8:00 am	< 0.3	2020-12-15
9418239	HS 30	2020-12-07 @ 9:00 am	2020-12-10 @ 8:00 am	< 0.3	2020-12-15
9418240	HS 32	2020-12-07 @ 9:00 am	2020-12-10 @ 8:00 am	< 0.3	2020-12-15
9418241	WEIGHT	2020-12-07 @ 9:00 am	2020-12-10 @ 8:00 am	0.9 ± 0.4	2020-12-15
9418242	GYM	2020-12-07 @ 9:00 am	2020-12-10 @ 8:00 am	1.3 ± 0.4	2020-12-15
9418243	STAGE	2020-12-07 @ 9:00 am	2020-12-10 @ 8:00 am	2.2 ± 0.5	2020-12-15

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December 24, 2020

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

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Radon test result report for:  
**GILCHRIST SCHOOL**

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<b>Kit #</b>	<b>Room Id</b>	<b>Started</b>	<b>Ended</b>	<b>pCi/L</b>	<b>Analyzed</b>
9418244	CLINIC R	2020-12-07 @ 11:00 am	2020-12-10 @ 8:00 am	0.8 ± 0.4	2020-12-15
9418245	CLINIC E1	2020-12-07 @ 11:00 am	2020-12-10 @ 8:00 am	0.7 ± 0.4	2020-12-15
9418246	CLINIC E2	2020-12-07 @ 11:00 am	2020-12-10 @ 8:00 am	< 0.3	2020-12-15
9418247	CLINIC O1	2020-12-07 @ 11:00 am	2020-12-10 @ 8:00 am	0.5 ± 0.4	2020-12-15

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December 24, 2020

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

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Radon test result report for:  
**GILCHRIST SCHOOL**  
**20570700**

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Kit #	Room Id	Started	Ended	pCi/L	Analyzed
9418248	CLINIC O2	2020-12-07 @ 11:00 am	2020-12-10 @ 8:00 am	0.7 ± 0.4	2020-12-15

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December 24, 2020

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

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Radon test result report for:  
**GILCHRIST SCHOOL**  
**20570701**

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Kit #	Room Id	Started	Ended	pCi/L	Analyzed
9418249	SHOP CLASS	2020-12-07 @ 11:00 am	2020-12-10 @ 8:00 am	0.5 ± 0.4	2020-12-15
9418250	SHOP CLASS	2020-12-07 @ 11:00 am	2020-12-10 @ 8:00 am	13.0 ± 0.9	2020-12-15
9418251	SHOP	2020-12-07 @ 11:00 am	2020-12-10 @ 8:00 am	0.7 ± 0.4	2020-12-15

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## **APPENDIX B**

### **BOWSER-MORNER RADON SPIKE EXPOSURE**

# EXPOSURE IN BOWSER-MORNER RADON CHAMBER

CLIENT Coleman Creek Consulting, Inc. Job Number 198582

NOMINAL Conditions: Radon Conc 25.7 pCi/L Rel. Hum 50.0 % Temp. 70.3 F

Date Start: 12/4/20 Date Stop: 12/7/20

Date Start: \_\_\_\_\_ Date Stop: \_\_\_\_\_

Time Start: 0923 Time Stop: 0923  
(Group 1)

Time Start: \_\_\_\_\_ Time Stop: \_\_\_\_\_

Device No.'s: (12) Char Bags -  
9417935, 9417970, 9418007,  
9418060, 9418096, 9418127,  
9418163, 9418190, 9418226,  
9418250, 9418286, 9418321

Device No.'s: \_\_\_\_\_

R5 Left

<sup>rem</sup>  
Date Start: 12/4/20 Date Stop: 12/7/20

Date Start: \_\_\_\_\_ Date Stop: \_\_\_\_\_

Time Start: 0927 Time Stop: 0927  
(Group 2)

Time Start: \_\_\_\_\_ Time Stop: \_\_\_\_\_

Device No.'s: (13) Char Bags -  
9418370, 9418418, 9418465, 9418500,  
9418566, 9418601, 9418660,  
9418695, 9418771, 9418747,  
9418806, 9418846, 9418875

Device No.'s: \_\_\_\_\_

R5 Right

Date Start: \_\_\_\_\_ Date Stop: \_\_\_\_\_

Date Start: \_\_\_\_\_ Date Stop: \_\_\_\_\_

Time Start: \_\_\_\_\_ Time Stop: \_\_\_\_\_

Time Start: \_\_\_\_\_ Time Stop: \_\_\_\_\_

Device No.'s: \_\_\_\_\_

Device No.'s: \_\_\_\_\_

Note: All times are in 24-hour (military) notation, Eastern Standard Time (EST)  
Background = 7  $\mu$ R/h Elevation = 820 ft



**APPENDIX C**

**RADON SAMPLING LOCATION DIAGRAM**

# GILCHRIST SCHOOL BUILDINGS

## Radon Sample Locations

