RADON GAS SAMPLING AND ANALYSIS REPORT

Prepared by:

For:

Jeff Webster
Warrensburg (MO) R6 School District
201 S. Holden Street
Warrensburg, MO 64093

Project:

Radon Gas Sampling and Analysis
Martin Warren Elementary School
105 S. Maguire Street
Warrensburg, MO 64093

TES Project No.: 26086ALMR.01

March 16, 2026

Full Service Environmental Consulting, Testing & Contracting
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March 16, 2026 TES Project No.: 26086ALMR.01

Jeff Webster
Warrensburg (MO) R6 School District
201 S. Holden Street
Warrensburg, MO 64093

RE: Report of Findings for Radon Gas Sampling and Analysis
Martin Warren Elementary School
105 S. Maguire Street
Warrensburg, MO 64093

Dear Client:

Titan Environmental Services, Inc. (TES) is pleased to provide this report of findings associated with the radon gas testing performed at 105 S. Maguire Street, Warrensburg, MO 64093 The radon gas testing was performed by Karla Granger, a National Radon Proficiency Program (NRPP) Radon Measurement Technician (Certificate #: 107404-RMP, Expiration date: January 31, 2028). Testing was conducted in accordance with HUD Guidelines and in general accordance with ANSI/AARST MA-MFLB-2023: Protocol for Conducting Radon and Radon Decay Product Measurements in Multifamily, School, Commercial and Multi-Use Buildings. The purpose of the testing was to establish baseline data for the presence of radon at the property.

Background Information

Radon gas comes from the natural (albeit radioactive) breakdown of uranium in soil, rock, and water, and enters the body through inhalation. Radon content within the air is ubiquitous; it can be found within any home in the United States, in both indoor and outdoor air. As such, it can be found in the air content of any building, regardless of property history or use.

Radon is the second-leading cause of lung cancer in the United States, behind tobacco use. Radon gas decays into radioactive particles which are trapped within the alveoli of the lungs when inhaled. As they break down further, these particles release small bursts of energy. This can damage lung tissues and lead to lung cancer of the course of your lifetime. Not everyone exposed to elevated levels of radon will develop lung cancer; factors that may affect your risk of lung cancer can include factors such as time exposed, other chemicals the lungs are exposed to (e.g. tobacco smoke, Volatile Organic Compounds (VOCs), etc.), and other such factors.

Radon Testing Procedure

On March 10, 2026, TES placed **fifty-six (56)** radon gas measurement devices throughout the subject property, excluding blank samples.

Duplicates are pairs of detectors or monitors deployed in the same location, side-by-side, for the same measurement period. The purpose of duplicates is to evaluate precision or agreement between detectors or monitors. Some variation between detectors of monitors. Some variation between the results of each detector is expected, but excessive variation could result from poor quality sampling media. Blanks help evaluate any detector response from sources other than radon exposure (i.e., in the manufacturing process, during shipment, storage, analysis, and handling. Ten percent (10%) duplicates and five percent (5%) field blanks were deployed for quality assurance and control (QA/QC) purposes. Each sample was set for a minimum of 48 hours in a location that was between 2.5 and 5.5 feet off the floor. This area is chosen due to it being the height at which air is typically inhaled by most human beings.

On March 12, 2026, TES Collected the Pro-Chek radon measurement devices and submitted the samples to Air-Chek Inc., in Mills River, NC (NRPP Certified Lab no.: 101138AL). The test and analysis was performed to comply with the US Environmental Protection Agency (USEPA) and State of Missouri Department of Health and Senior Services (MDHSS) short-term radon testing protocol. The test results represent the average radon concentration at the time of the sampling event, and at each specific location tested within the subject property.

There is a level of uncertainty with any measurement result, due to statistical variations and other factors. These include factors such as daily and seasonal variations in radon concentrations, weather, operation of the dwelling, or possible interference with the necessary test conditions. The average radon gas level at the time of sampling, measured in picocuries of radon per liter of air (pCi/L: +/- 0.3) has been included as well. No tampering was observed during the course of the sampling event. Closed building conditions were observed for the duration of the test.

The following table details the results of the radon sampling event at the subject property:

Sample #	Location	EPA Recommended Action Guideline	Test Results
7552757	**Room 14**	**4.0 pCi/L**	**29.8 pCi/L**
7552752	**Room 14 (Duplicate)**	**4.0 pCi/L**	**31.8 pCi/L**
Average for Room 14		**4.0 pCi/L**	**30.8 pCi/L**
7552751	**Room 13**	**4.0 pCi/L**	**17.1 pCi/L**
7552753	**Room 12**	**4.0 pCi/L**	**9.1 pCi/L**
7552762	**Room 11**	**4.0 pCi/L**	**9.2 pCi/L**
7552760	**Basement Storage**	**4.0 pCi/L**	**10.9 pCi/L**
7552754	**Room 10**	**4.0 pCi/L**	**8.2 pCi/L**
7552761	**Room 10 (Duplicate)**	**4.0 pCi/L**	**8.3 pCi/L**
Average for Room 10		**4.0 pCi/L**	**8.3 pCi/L**
7552765	Library Media Room (West)	4.0 pCi/L	2.6 pCi/L

Sample #	Location	EPA Recommended Action Guideline	Test Results
7552766	Library Media Room (East)	4.0 pCi/L	2.6 pCi/L
7552755	Library A	4.0 pCi/L	2.4 pCi/L
7552756	Computer Lab	4.0 pCi/L	2.7 pCi/L
7552743	Office 1	4.0 pCi/L	2.6 pCi/L
7552737	Office 1 (duplicate)	4.0 pCi/L	2.4 pCi/L
Average for Office 1		4.0 pCi/L	2.5 pCi/L
7552746	Office 2	4.0 pCi/L	2.5 pCi/L
7552745	Copy Room	4.0 pCi/L	2.5 pCi/L
7552770	Classroom 111	4.0 pCi/L	3.3 pCi/L
7552738	Room 110	4.0 pCi/L	2.6 pCi/L
7552769	Classroom 109	4.0 pCi/L	2.9 pCi/L
7552727	Gym (SE)	4.0 pCi/L	2.8 pCi/L
7552722	Gym (East)	4.0 pCi/L	2.9 pCi/L
7552724	Gym (SW)	4.0 pCi/L	2.6 pCi/L
7552759	Gym (West)	4.0 pCi/L	2.7 pCi/L
7552740	Gym (NW)	4.0 pCi/L	3.0 pCi/L
7552739	Gym (NE)	4.0 pCi/L	3.3 pCi/L
7552721	1st Floor South Hall	4.0 pCi/L	2.6 pCi/L
7552719	Classroom 108	4.0 pCi/L	3.6 pCi/L
7541567	**Classroom 107**	**4.0 pCi/L**	**5.4 pCi/L**
7552718	**Classroom 106**	**4.0 pCi/L**	**4.5 pCi/L**
7552720	**Classroom 106 (Duplicate)**	**4.0 pCi/L**	**4.4 pCi/L**
Average for Classroom 106		**4.0 pCi/L**	**4.5 pCi/L**
7552730	Classroom 104	4.0 pCi/L	2.7 pCi/L
7552728	**Classroom 105**	**4.0 pCi/L**	**4.4 pCi/L**
7552736	1st Floor West Hall	4.0 pCi/L	2.1 pCi/L

Sample #	Location	EPA Recommended Action Guideline	Test Results
7552731	**Classroom 103**	**4.0 pCi/L**	**4.8 pCi/L**
7552735	Classroom 102	4.0 pCi/L	2.5 pCi/L
7552732	Classroom 101	4.0 pCi/L	2.6 pCi/L
7552729	**Classroom 121**	**4.0 pCi/L**	**5.6 pCi/L**
7552744	Custodial Office	4.0 pCi/L	1.3 pCi/L
7552723	South Cafeteria	4.0 pCi/L	1.9 pCi/L
7552749	North Cafeteria	4.0 pCi/L	1.5 pCi/L
7552774	North Cafeteria (Duplicate)	4.0 pCi/L	1.5 pCi/L
Average for North Cafeteria		4.0 pCi/L	1.5 pCi/L
7552733	Classroom 119	4.0 pCi/L	0.9 pCi/L
7552741	Room 118	4.0 pCi/L	1.9 pCi/L
7552742	Faculty Room 117	4.0 pCi/L	0.8 pCi/L
7552726	3rd Grade Storage	4.0 pCi/L	0.6 pCi/L
7541565	Server Room	4.0 pCi/L	0.6 pCi/L
7552734	Classroom 116	4.0 pCi/L	0.8 pCi/L
7552725	North Hall	4.0 pCi/L	2.4 pCi/L
7552773	Classroom 115	4.0 pCi/L	2.6 pCi/L
7541572	Classroom 115 (Duplicate)	4.0 pCi/L	3.5 pCi/L
Average for Classroom 115		4.0 pCi/L	3.1 pCi/L
7541573	Room 114	4.0 pCi/L	3.0 pCi/L
7552758	Classroom 113	4.0 pCi/L	3.1 pCi/L
7552748	East Hall	4.0 pCi/L	2.4 pCi/L
7552747	Classroom 112	4.0 pCi/L	3.6 pCi/L
7541566	Classroom 202	4.0 pCi/L	2.2 pCi/L
7552750	Classroom 213	4.0 pCi/L	3.6 pCi/L
7552768	Field Blank	4.0 pCi/L	<0.3 pCi/L

Sample #	Location	EPA Recommended Action Guideline	Test Results
7552772	Field Blank	4.0 pCi/L	<0.3 pCi/L
7552771	Field Blank	4.0 pCi/L	<0.3 pCi/L
7552716	Lab Blank	4.0 pCi/L	<0.3 pCi/L
7552712	Lab Blank	4.0 pCi/L	<0.3 pCi/L
7552775	Lab Blank	4.0 pCi/L	<0.3 pCi/L
7552711	Office Blank	4.0 pCi/L	<0.3 pCi/L
7552764	Office Blank	4.0 pCi/L	<0.3 pCi/L
7552763	Office Blank	4.0 pCi/L	<0.3 pCi/L
Average Radon Concentration Complex-Wide		**4.0 pCi/L**	**4.5 pCi/L**

Based on the results of the samples collected from the site, the samples collected from Room 14, Room 13, Room 12, Room 11, Basement Storage, Room 10, Classroom 107, Classroom 106, Classroom 105, Classroom 103, and Classroom 121reported radon gas concentrations which were above the USEPA action guideline of 4.0 pCi/L at the time of our sampling; thus radon mitigation is warranted. All of the remaining samples collected were below the USEPA action guideline of 4.0 pCi/L at the time of our sampling. Test results of 0.5 pCi/L or less are, for all practical purposes, equivalent to the radon levels found in fresh air.

The OSHA radon exposure limit is an average concentration for 40 hours in any workweek of 7 consecutive days. The still applicable 1971 radon-222 exposure limit for adult employees is $1 * 10^{-7}$ microcuries per milliliter (μ Ci/ml), or 100 pCi/L averaged over a 40-hour workweek. The average concentration in outdoor air is 0.4 p/Ci/L or 10% of the USEPA's 4 pCi/L action level. The average radon concentration in the indoor air during this assessment is 4.5 pCi/L; above both the national EPA average for indoor air in homes (1.3 pCi/L); and the EPA Action Level. The average indoor radon levels of Johnson County, Missouri, as determined by Federal EPA Radon Concentration data (and confirmed by data by Air Chek, Inc.) is 2.4 pCi/L (between 2.0 pCi/L and the USEPA action level of 4.0 pCi/L).

Recommendations:

Because the initial short-term measurement for the elevated units listed above were less than twice the USEPA Action Guideline (4.0 to 8.0 pCi/L), the client has the option of conducting another short-term test; preferably in the same season as the initial test; to confirm (or refute) the readings obtained during the initial assessment. For radon testes exceeding 8.0 pCi/L (twice the EPA Action Level); conducting a second short-term test (2-7 days) is recommended.
It is recommended to repeat testing of all buildings under heating season conditions at the earliest opportunity, and no later than within 5 years after the initial testing.

Additionally, it is recommended that a long-term test be considered as a follow-up assessment to the sampling events which took place as described herein.

The closer a long-term measurement is to encompassing the entire year, the closer it will resemble actual annual averages for radon concentrations of the areas observed. Such concentrations may be especially important in regions where geology or other factors may cause wide variations in radon concentrations.
If the average result of two short-term tests, or one long-term test is equal to or greater than the radon action level, then radon mitigation is warranted. There is a relatively low probability that mitigation is warranted if the result is less than 4 pCi/L, however the USEPA recommends mitigation when the radon level is between 2 pCi/L and 4 pCi/L, in addition to if the concentrations are above the action level for radon.

In lieu of additional testing, the USEPA recommends radon mitigation. When mitigation actions need to begin quickly, conduct this testing prior to any initial post-mitigation testing.

The most common technique used to reduce elevated indoor radon is known as the Active Soil Depression (ASD) radon mitigation system. An ASD radon mitigation unit is a permanently-installed pipe-and-fan system that places a direct constant vacuum on the soil beneath the property's foundation, constantly reducing the amount of radon which is able to penetrate into the living space of the subject property. ASD radon mitigation systems can reliably and easily reduce elevated radon levels in 95% of homes or more. The average post-mitigation radon result for this remediation technique is 1.3 pCi/L, which is well below the action level of 4.0 pCi/L.

Know that mitigation is not complete until retests provide evidence for the initial status of system effectiveness. Initiate short-term testing no sooner than 24 hours after a mitigation system is operational and within 30 days after installation of the system(s). If testing at any time indicates radon concentrations above the action level, it is recommended to conduct evaluations of the mitigation system(s); corrections and further testing until testing indicates radon concentrations have been mitigated to below the action level.

If remodeling is considered after a radon remediation system has been installed (such as converting an unfinished basement area into occupied space), check with the radon mitigation expert who has installed the remediation system before having work performed. Also ask the radon mitigator if any of the proposed changes could void any warranties. If planning to add a new foundation for an addition, ask the radon mitigation expert who has installed the remediation system about what measures should be taken to make sure the new addition doesn't develop elevated levels of radon gas. After remodeling activities have concluded, retest all lived-in levels to make sure the construction did not reduce the effectiveness of the radon reduction system.

Retest all building(s) at least every 5 years, and in conjunction with any sale of the building. Furthermore, it is recommended that subsequent tests be performed in a different season as the initial test, to obtain at least one test under a different season that represents a significant portion of the yearlong operating condition for the building (e.g. if the initial test was performed in summer, consider performing the next test in winter, and so on). In addition, be certain to retest the property whenever any of the following circumstances occur:

- A new addition is constructed or alterations for building reconfiguration or rehabilitation occur.
- A ground-contact area not previously tested is occupied.
- Heating or cooling systems are altered in such a way that air distribution or pressure relationships change within the property.
- Ventilation is altered by extensive weatherization, changes to mechanical systems, or comparable procedures.

- Sizeable openings to soil occur due to any of the following:
    - Groundwater or slab surface water control systems are added or altered (e.g., sumps, perimeter drain tile, shower/tub retrofits, etc.)
    - Natural settlement occurs, causing major cracks to develop.
    - Earthquakes, construction blasting, or formation of sinkholes occur near the subject property.
    - A radon mitigation system is altered, modified, or repaired.
- If renovations or other structural changes are planned in the lower level of the subject property.

Additional information regarding radon testing and mitigation can be accessed at www.epa.gov/radon and https://health.mo.gov/living/environment/radon.

Closing Comments

TES has performed the tasks set forth above in a thorough and professional manner consistent with industry standards. This limited scope radon sampling event and report does not and cannot address correction of the conditions that caused the contamination to occur nor does this report reflect on conditions post-cleanup that may develop that could support or encourage the redevelopment of the asbestos contamination. Furthermore, TES cannot guarantee and does not warrant that these limited testing events have revealed all asbestos contamination affecting the site. The results reported and any opinions reached by TES are for the benefit of the client. The results and opinions set forth by TES in its report will be valid as of the date of the report.

TES appreciates the opportunity to be of service to you. If you have any questions, please do not hesitate to contact us.

Respectfully,



Karla Granger
NRPP Radon Measurement Professional

Appendices: Appendix A – Radon Gas Analytical Testing Data
Appendix B – USEPA & State of Missouri Radon Zone Maps
Appendix C – Site Photographs & Drawings
Appendix D – TES Personnel Certifications

APPENDIX A – RADON GAS ANALYTICAL TESTING DATA

A Full Service Environmental Consulting and Testing Firm
Phone: 913-432-5500 Fax: 913-432-0704

RADON SAMPLE CUSTODY FORM

CLIENT: Warrensburg (MO) R6 School District **PROJECT No:** 26086ALMR.01
JOB LOCATION: 105 S. Maguire Street, Warrensburg, MO 64093
CONTACT/PHONE: Karla Granger 913-432-5500

SAMPLE #	LOCATION	DATE STARTED	TIME STARTED	DATE COLLECTED	TIME COLLECTED
7552757	Room 14	3/10/26	10:08 AM	3/12/26	10:09 AM
7552752	Room 14 (Duplicate)	3/10/26	10:08 AM	3/12/26	10:09 AM
7552751	Room 13	3/10/26	10:10 AM	3/12/26	10:10 AM
7552753	Room 12	3/10/26	10:12 AM	3/12/26	10:12 AM
7552762	Room 11	3/10/26	10:13 AM	3/12/26	10:13 PM
7552760	Basement Storage	3/10/26	10:18 AM	3/12/26	10:19 AM
7552754	Room 10	3/10/26	10:21 AM	3/12/26	10:22 AM
7552761	Room 10 (Duplicate)	3/10/26	10:21 AM	3/12/26	10:22 AM
7552765	Library Media Room (West)	3/10/26	10:33 AM	3/12/26	10:35 AM
7552766	Library Media Room (East)	3/10/26	10:35 AM	3/12/26	10:35 AM
7552755	Library A	3/10/26	10:38 AM	3/12/26	10:38 AM
7552756	Computer Lab	3/10/26	10:42 AM	3/12/26	10:44 AM
7552743	Office 1	3/10/26	10:46 AM	3/12/26	10:46 AM
7552737	Office 1 (duplicate)	3/10/26	10:46 AM	3/12/26	10:46 AM
7552746	Office 2	3/10/26	10:49 AM	3/12/26	10:49 AM
7552745	Copy Room	3/10/26	10:56 AM	3/12/26	10:58 AM
7552770	Classroom 111	3/10/26	11:00 AM	3/12/26	11:01 AM
7552738	Room 110	3/10/26	11:04 AM	3/12/26	11:05 AM
7552769	Classroom 109	3/10/26	11:08 AM	3/12/26	11:10 AM

SAMPLE #	LOCATION	DATE STARTED	TIME STARTED	DATE COLLECTED	TIME COLLECTED
7552727	Gym (SE)	3/10/26	11:12 AM	3/12/26	11:13 AM
7552722	Gym (East)	3/10/26	11:14 AM	3/12/26	11:15 AM
7552724	Gym (SW)	3/10/26	11:16 AM	3/12/26	11:17 AM
7552759	Gym (West)	3/10/26	11:18 AM	3/12/26	11:18 AM
7552740	Gym (NW)	3/10/26	11:21 AM	3/12/26	11:22 AM
7552739	Gym (NE)	3/10/26	11:24 AM	3/12/26	11:24 AM
7552721	1st Floor South Hall	3/10/26	11:28 AM	3/12/26	11:30 AM
7552719	Classroom 108	3/10/26	12:44 PM	3/12/26	12:46 PM
7541567	Classroom 107	3/10/26	12:46 PM	3/12/26	12:47 PM
7552718	Classroom 106	3/10/26	12:49 PM	3/12/26	12:51 PM
7552720	Classroom 106 (Duplicate)	3/10/26	12:49 PM	3/12/26	12:51 PM
7552730	Classroom 104	3/10/26	12:52 PM	3/12/26	12:54 PM
7552728	Classroom 105	3/10/26	12:55 PM	3/12/26	12:55 PM
7552736	1st Floor West Hall	3/10/26	1:02 PM	3/12/26	1:04 PM
7552731	Classroom 103	3/10/26	1:05 PM	3/12/26	1:06 PM
7552735	Classroom 102	3/10/26	1:08 PM	3/12/26	1:08 PM
7552732	Classroom 101	3/10/26	1:10 PM	3/12/26	1:11 PM
7552729	Classroom 121	3/10/26	1:13 PM	3/12/26	1:14 PM
7552744	Custodial Office	3/10/26	1:17 PM	3/12/26	1:21 PM
7552723	South Cafeteria	3/10/26	1:20 PM	3/12/26	1:23 PM
7552749	North Cafeteria	3/10/26	1:22 PM	3/12/26	1:24 PM
7552774	North Cafeteria (Duplicate)	3/10/26	1:22 PM	3/12/26	1:24 PM
7552733	Classroom 119	3/10/26	1:25 PM	3/12/26	1:27 PM

SAMPLE #	LOCATION	DATE STARTED	TIME STARTED	DATE COLLECTED	TIME COLLECTED
7552741	Room 118	3/10/26	1:29 PM	3/12/26	1:30 PM
7552742	Faculty Room 117	3/10/26	1:31 PM	3/12/26	1:32 PM
7552726	3rd Grade Storage	3/10/26	1:35 PM	3/12/26	1:36 PM
7541565	Server Room	3/10/26	1:37 PM	3/12/26	1:39 PM
7552734	Classroom 116	3/10/26	1:41 PM	3/12/26	1:42 PM
7552725	North Hall	3/10/26	1:45 PM	3/12/26	1:46 PM
7552773	Classroom 115	3/10/26	1:48 PM	3/12/26	1:49 PM
7541572	Classroom 115 (Duplicate)	3/10/26	1:48 PM	3/12/26	1:49 PM
7541573	Room 114	3/10/26	1:50 PM	3/12/26	1:52 PM
7552758	Classroom 113	3/10/26	1:53 PM	3/12/26	1:54 PM
7552748	East Hall	3/10/26	1:55 PM	3/12/26	1:56 PM
7552747	Classroom 112	3/10/26	1:59 PM	3/12/26	2:01 PM
7541566	Classroom 202	3/10/26	2:08 PM	3/12/26	2:10 PM
7552750	Classroom 213	3/10/26	2:13 PM	3/12/26	2:15 PM
7552768	Field Blank	3/10/26	2:33 PM	3/12/26	2:35 PM
7552772	Field Blank	3/10/26	2:33 PM	3/12/26	2:35 PM
7552771	Field Blank	3/10/26	2:33 PM	3/12/26	2:35 PM
7552716	Lab Blank	3/10/26	3:32 PM	3/12/26	3:35 PM
7552712	Lab Blank	3/10/26	3:32 PM	3/12/26	3:35 PM
7552775	Lab Blank	3/10/26	3:32 PM	3/12/26	3:35 PM
7552711	Office Blank	3/10/26	3:33 PM	3/12/26	3:36 PM
7552764	Office Blank	3/10/26	3:33 PM	3/12/26	3:36 PM
7552763	Office Blank	3/10/26	3:33 PM	3/12/26	3:36 PM

ADDITIONAL REMARKS:

Sampled by: Karla Granger
PRINTED Name

Please email results to: paule@titankc.com,
kgranger@titankc.com

TURNAROUND TIME: Standard



SIGNATURE

CUSTODY

Relinquished By:  Date/Time: @1800

Received By: Date/Time:

PLEASE RETURN ORIGINAL COPY TO TITAN ENVIRONMENTAL SERVICES, INC.

P.O. Box 410295, Kansas City, Missouri 64141 Phone (913) 432-5500 : Fax (913) 432-0704

March 13, 2026

** LABORATORY ANALYSIS REPORT **

Radon test result report for:

105 S. MAGUIRE ST., WARRENSBURG, MO
MAIN

Kit #	Room Id	Started	Ended	pCi/L	Analyzed
7552726	3RD GRADE STORAGE	2026-03-10 @ 2:00 pm	2026-03-12 @ 2:00 pm	0.6 ± 0.3	2026-03-13
7552760	BASE. STORAGE	2026-03-10 @ 10:00 am	2026-03-12 @ 10:00 am	10.9 ± 0.9	2026-03-13
7552774	CAFETERIA (NORTH)	2026-03-10 @ 2:00 pm	2026-03-12 @ 2:00 pm	1.5 ± 0.3	2026-03-13
7552749	CAFETERIA (NORTH)	2026-03-10 @ 2:00 pm	2026-03-12 @ 2:00 pm	1.5 ± 0.3	2026-03-13
7552723	CAFETERIA (SOUTH)	2026-03-10 @ 2:00 pm	2026-03-12 @ 2:00 pm	1.9 ± 0.3	2026-03-13
7552732	CLASSROOM 101	2026-03-10 @ 1:00 pm	2026-03-12 @ 1:00 pm	2.6 ± 0.3	2026-03-13
7552735	CLASSROOM 102	2026-03-10 @ 1:00 pm	2026-03-12 @ 1:00 pm	2.5 ± 0.3	2026-03-13
7552731	CLASSROOM 103	2026-03-10 @ 1:00 pm	2026-03-12 @ 1:00 pm	4.8 ± 0.4	2026-03-13
7552730	CLASSROOM 104	2026-03-10 @ 1:00 pm	2026-03-12 @ 1:00 pm	2.7 ± 0.3	2026-03-13
7552728	CLASSROOM 105	2026-03-10 @ 1:00 pm	2026-03-12 @ 1:00 pm	4.4 ± 0.4	2026-03-13
7552720	CLASSROOM 106	2026-03-10 @ 1:00 pm	2026-03-12 @ 1:00 pm	4.4 ± 0.4	2026-03-13
7552718	CLASSROOM 106	2026-03-10 @ 1:00 pm	2026-03-12 @ 1:00 pm	4.5 ± 0.4	2026-03-13
7541567	CLASSROOM 107	2026-03-10 @ 1:00 pm	2026-03-12 @ 1:00 pm	5.4 ± 0.4	2026-03-13
7552719	CLASSROOM 108	2026-03-10 @ 1:00 pm	2026-03-12 @ 1:00 pm	3.6 ± 0.3	2026-03-13
7552769	CLASSROOM 109	2026-03-10 @ 11:00 am	2026-03-12 @ 11:00 am	2.9 ± 0.3	2026-03-13
7552770	CLASSROOM 111	2026-03-10 @ 11:00 am	2026-03-12 @ 11:00 am	3.3 ± 0.3	2026-03-13
7552747	CLASSROOM 112	2026-03-10 @ 3:00 pm	2026-03-12 @ 3:00 pm	3.6 ± 0.3	2026-03-13
7552758	CLASSROOM 113	2026-03-10 @ 2:00 pm	2026-03-12 @ 2:00 pm	3.1 ± 0.3	2026-03-13
7541572	CLASSROOM 115	2026-03-10 @ 2:00 pm	2026-03-12 @ 2:00 pm	3.5 ± 0.3	2026-03-13
7552773	CLASSROOM 115	2026-03-10 @ 2:00 pm	2026-03-12 @ 2:00 pm	2.6 ± 0.3	2026-03-13
7552734	CLASSROOM 116	2026-03-10 @ 2:00 pm	2026-03-12 @ 2:00 pm	0.8 ± 0.3	2026-03-13
7552733	CLASSROOM 119	2026-03-10 @ 2:00 pm	2026-03-12 @ 2:00 pm	0.9 ± 0.3	2026-03-13
7552729	CLASSROOM 121	2026-03-10 @ 1:00 pm	2026-03-12 @ 1:00 pm	5.6 ± 0.4	2026-03-13
7541566	CLASSROOM 202	2026-03-10 @ 3:00 pm	2026-03-12 @ 3:00 pm	2.2 ± 0.3	2026-03-13
7552750	CLASSROOM 213	2026-03-10 @ 3:00 pm	2026-03-12 @ 3:00 pm	3.6 ± 0.3	2026-03-13
7552756	COMPUTER LAB	2026-03-10 @ 11:00 am	2026-03-12 @ 11:00 am	2.7 ± 0.3	2026-03-13
7552745	COPY ROOM	2026-03-10 @ 11:00 am	2026-03-12 @ 11:00 am	2.5 ± 0.3	2026-03-13
7552744	CUSTODIAL OFFICE	2026-03-10 @ 2:00 pm	2026-03-12 @ 2:00 pm	1.3 ± 0.3	2026-03-13
7552748	EAST HALLWAY	2026-03-10 @ 2:00 pm	2026-03-12 @ 2:00 pm	2.4 ± 0.3	2026-03-13
7552742	FACULTY RM 117	2026-03-10 @ 2:00 pm	2026-03-12 @ 2:00 pm	0.8 ± 0.3	2026-03-13
7552768	FIELD BLANK	2026-03-10 @ 3:00 pm	2026-03-12 @ 3:00 pm	< 0.3	2026-03-13
7552772	FIELD BLANK	2026-03-10 @ 3:00 pm	2026-03-12 @ 3:00 pm	< 0.3	2026-03-13
7552771	FIELD BLANK	2026-03-10 @ 3:00 pm	2026-03-12 @ 3:00 pm	< 0.3	2026-03-13
7552722	GYM (EAST)	2026-03-10 @ 11:00 am	2026-03-12 @ 11:00 am	2.9 ± 0.3	2026-03-13
7552739	GYM (N.E.)	2026-03-10 @ 11:00 am	2026-03-12 @ 11:00 am	3.3 ± 0.3	2026-03-13
7552740	GYM (N.W.)	2026-03-10 @ 11:00 am	2026-03-12 @ 11:00 am	3.0 ± 0.3	2026-03-13
7552727	GYM (S.E.)	2026-03-10 @ 11:00 am	2026-03-12 @ 11:00 am	2.8 ± 0.3	2026-03-13

Air Chek 1936 Butler Bridge Rd, Mills River, NC 28759-3892 Phone: (828) 684-0893 Fax: (828) 684-8498

March 13, 2026 **** LABORATORY ANALYSIS REPORT ****

Radon test result report for:
105 S. MAGUIRE ST., WARRENSBURG, MO
MAIN

Kit #	Room Id	Started	Ended	pCi/L	Analyzed
7552724	GYM (S.W.)	2026-03-10 @ 11:00 am	2026-03-12 @ 11:00 am	2.6 ± 0.3	2026-03-13
7552759	GYM (WEST)	2026-03-10 @ 11:00 am	2026-03-12 @ 11:00 am	2.7 ± 0.3	2026-03-13
7552716	LAB BLANK	2026-03-10 @ 4:00 pm	2026-03-12 @ 4:00 pm	< 0.3	2026-03-13
7552712	LAB BLANK	2026-03-10 @ 4:00 pm	2026-03-12 @ 4:00 pm	< 0.3	2026-03-13
7552775	LAB BLANK	2026-03-10 @ 4:00 pm	2026-03-12 @ 4:00 pm	< 0.3	2026-03-13
7552755	LIB A	2026-03-10 @ 11:00 am	2026-03-12 @ 11:00 am	2.4 ± 0.3	2026-03-13
7552766	LIBRARY (EAST)	2026-03-10 @ 11:00 am	2026-03-12 @ 11:00 am	2.6 ± 0.3	2026-03-13
7552765	LIBRARY (WEST)	2026-03-10 @ 11:00 am	2026-03-12 @ 11:00 am	2.6 ± 0.3	2026-03-13
7552725	NORTH HALLWAY	2026-03-10 @ 2:00 pm	2026-03-12 @ 2:00 pm	2.4 ± 0.3	2026-03-13
7552737	OFFICE 1	2026-03-10 @ 11:00 am	2026-03-12 @ 11:00 am	2.4 ± 0.3	2026-03-13
7552743	OFFICE 1	2026-03-10 @ 11:00 am	2026-03-12 @ 11:00 am	2.6 ± 0.3	2026-03-13
7552746	OFFICE 2	2026-03-10 @ 11:00 am	2026-03-12 @ 11:00 am	2.5 ± 0.3	2026-03-13
7552711	OFFICE BLANK	2026-03-10 @ 4:00 pm	2026-03-12 @ 4:00 pm	< 0.3	2026-03-13
7552764	OFFICE BLANK	2026-03-10 @ 4:00 pm	2026-03-12 @ 4:00 pm	< 0.3	2026-03-13
7552763	OFFICE BLANK	2026-03-10 @ 4:00 pm	2026-03-12 @ 4:00 pm	< 0.3	2026-03-13
7552754	ROOM 10	2026-03-10 @ 10:00 am	2026-03-12 @ 10:00 am	8.2 ± 0.7	2026-03-13
7552761	ROOM 10	2026-03-10 @ 10:00 am	2026-03-12 @ 10:00 am	8.3 ± 0.7	2026-03-13
7552762	ROOM 11	2026-03-10 @ 10:00 am	2026-03-12 @ 10:00 am	9.2 ± 0.7	2026-03-13
7552738	ROOM 110	2026-03-10 @ 11:00 am	2026-03-12 @ 11:00 am	2.6 ± 0.3	2026-03-13
7541573	ROOM 114	2026-03-10 @ 2:00 pm	2026-03-12 @ 2:00 pm	3.0 ± 0.3	2026-03-13
7552753	ROOM 12	2026-03-10 @ 10:00 am	2026-03-12 @ 10:00 am	9.1 ± 0.7	2026-03-13
7552751	ROOM 13	2026-03-10 @ 10:00 am	2026-03-12 @ 10:00 am	17.1 ± 1.4	2026-03-13
7552752	ROOM 14	2026-03-10 @ 10:00 am	2026-03-12 @ 10:00 am	31.8 ± 2.5	2026-03-13
7552757	ROOM 14	2026-03-10 @ 10:00 am	2026-03-12 @ 10:00 am	29.8 ± 2.4	2026-03-13
7552741	ROOM 118	2026-03-10 @ 2:00 pm	2026-03-12 @ 2:00 pm	1.9 ± 0.3	2026-03-13
7541565	SERVER ROOM	2026-03-10 @ 2:00 pm	2026-03-12 @ 2:00 pm	0.6 ± 0.3	2026-03-13
7552721	SOUTH HALLWAY	2026-03-10 @ 11:00 am	2026-03-12 @ 11:00 am	2.6 ± 0.3	2026-03-13
7552736	WEST HALLWAY	2026-03-10 @ 1:00 pm	2026-03-12 @ 1:00 pm	2.1 ± 0.3	2026-03-13

Air Chek 1936 Butler Bridge Rd, Mills River, NC 28759-3892 Phone: (828) 684-0893 Fax: (828) 684-8498

Your health risk

The primary health risk from long-term exposure to radon is lung cancer. The risk of developing a lung cancer from radon exposure depends both on how much radon is present and how long you are exposed to radon. The higher the radon level or the longer the time of exposure, even if the levels are relatively low, the greater the risk. Exposures up to 4 pCi/L may present some risk of contracting lung cancer to more sensitive occupants, especially children and those who live with smokers. The US Congress set as a goal the lowering of radon levels in buildings to equal the levels of outside air.

PERFORMING RADON TESTS FOR A REAL ESTATE TRANSACTION

US EPA protocols state that when using passive devices, such as activated charcoal tests, two short-term tests should be conducted, either together or sequentially, at the same location in the building. The tests should be averaged together and if the average is 4.0 pCi/L or higher, radon mitigation is recommended. Even if the average is below 4.0 pCi/L, the buyers should consider testing in a different season or deploy a long-term test device to assess their long-term risks. It is **highly recommended** that any property transaction tests be conducted by a non-interested third party. To locate a listed or certified radon tester, contact your state radon office or visit our website at http://www.neha-nrpp.org to download a list of NEHA-NRPP certified testers. You should also visit the EPA website to download a copy of EPA's Home Buyer's and Seller's Guide to Radon.

Radon Test Device Placement

The US EPA recommends that testing device(s) be placed in the lowest level of the home that could be used regularly, whether it is finished or unfinished. Conduct the test in any space that could be used by the buyer as a bedroom, play area, family room, den, exercise room, or workshop. Based on their client's intended use of the space, the qualified testing professional should identify the appropriate test location and inform their client (buyer). Do not test in a closet, stairway, hallway, crawl space or in an enclosed area of high humidity or high air velocity. An enclosed area may include a kitchen, bathroom, laundry room or furnace room.

Variations in Radon Levels

When tests are performed in different seasons or under different weather conditions, the initial screening and follow-up tests may vary considerably. Radon levels can vary significantly between seasons, so different values **are to be expected**. Even during normal weather, indoor radon levels may rise and fall by a factor of two on a daily cycle; for example, from 5 pCi/L to 10 pCi/L in 24 hours. During rapidly changing or stormy weather, the levels may change more dramatically. Because continual changes in radon levels are considered normal, expose the testing device for as long as is practical, while following the manufacturer's recommendations. This, of course, provides a better overall average of the measurement.

If you are comparing tests, or are averaging a series of tests, bear in mind that any radon test returns only the average of the levels present during a **specific period of time** at the **precise location** of the test. Conditions during a different test period or at a different location in the building are **expected to be different.**

Test results can also vary if the radon test instructions were not carefully followed. A laboratory measuring radon in samples taken outside the lab **must rely on the person conducting the test**. For example, the wrong starting or ending date of a test will significantly affect the calculated result. The location of each radon test can also influence the result. For example, a test placed in the blowing air stream of a fan is likely to collect more radon than it would under normal conditions. Also, three tests conducted in one home, but in three different rooms, **would be expected to have at least slightly different test results.**

Test results from a properly used activated charcoal test will more closely reflect the average radon concentrations over the last three to four days of the test period. This happens because the radon collected by the activated charcoal has a radioactive half-life of only four days. Thus, much of the radon collected early in a seven day test has already begun to decay prior to the conclusion of the test.

Retesting

It is important to understand that radon levels can change at some point in the future. Therefore, it is important to retest when there is occupancy by a new owner, before and after a new addition to the house, alterations that could alter ventilation patterns, if major cracks are noticed in foundation walls or the slab, you begin using a ground contact area of the home not previously tested, or even recent nearby construction blasting or earthquakes. EPA recommends that homes be retested every 2-3 years. If the home has been previously mitigated or alterations are made to the mitigation system, retesting should be done.

Mitigation

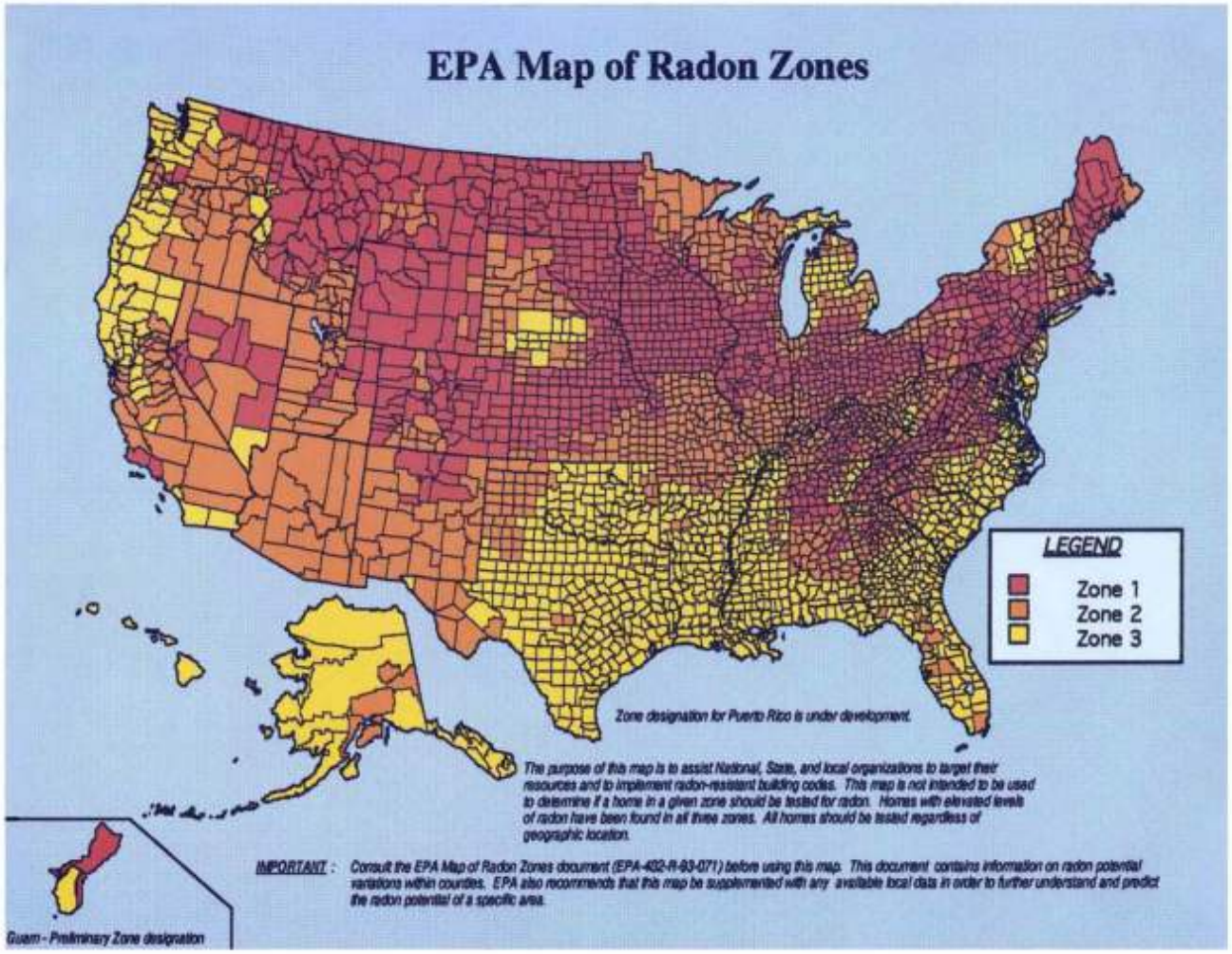
When radon mitigation is necessary, it is advisable that a state-licensed or nationally- certified contractor be used to design and install the mitigation system. For easy to read mitigation information, go to the US EPA website and download a copy of the Consumer's Guide to Radon Reduction.

For technical information, call (828) 684-0893. Office hours are Mon-Fri 8:30 to 5:30 EASTERN
You can reach us by Fax at (828) 684-8498 or write to Air Chek, Inc., Box 2000, Naples, NC 28760
Web Site: http://www.radon.com **Email to:** info@radon.com

APPENDIX B – USEPA & STATE OF MISSOURI RADON ZONE MAPS

Radon Zones Map

The U.S. Environmental Protection Agency (EPA) created this map to identify areas with the potential for elevated indoor radon levels. The EPA Map of Radon Zones helps national, state, and local organizations implement radon-resistant building codes. The map should not be used to determine if a home in a given zone should be tested for radon. Homes with elevated levels of radon have been found in all three zones. All homes should be tested for radon.



What do the colors mean?

	Zone 1 (red zones)	Highest potential; average indoor radon levels may be greater than 4 pCi/L (picocuries per liter)
	Zone 2 (orange zones)	Moderate potential; average indoor radon levels may be between 2 and 4 pCi/L
	Zone 3 (yellow zones)	Low potential; average indoor radon levels may be less than 2 pCi/L

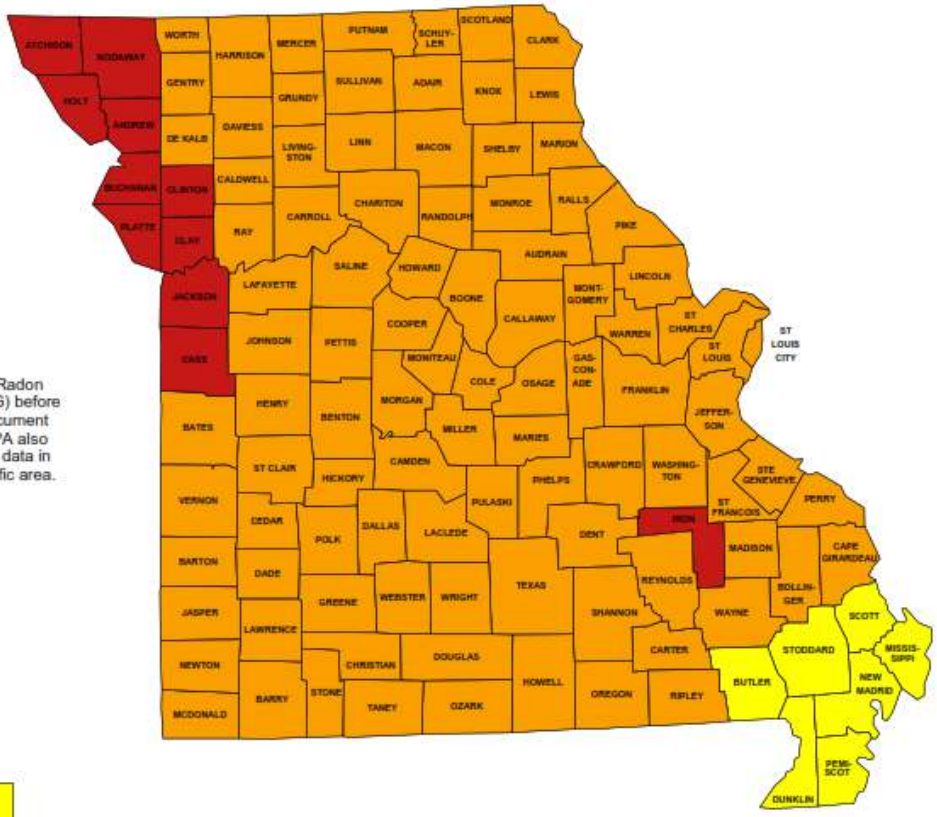
MISSOURI - EPA Map of Radon Zones

http://www.epa.gov/radon/zonemap.html

The purpose of this map is to assist National, State and local organizations to target their resources and to implement radon-resistant building codes.

This map is not intended to determine if a home in a given zone should be tested for radon. Homes with elevated levels of radon have been found in all three zones.

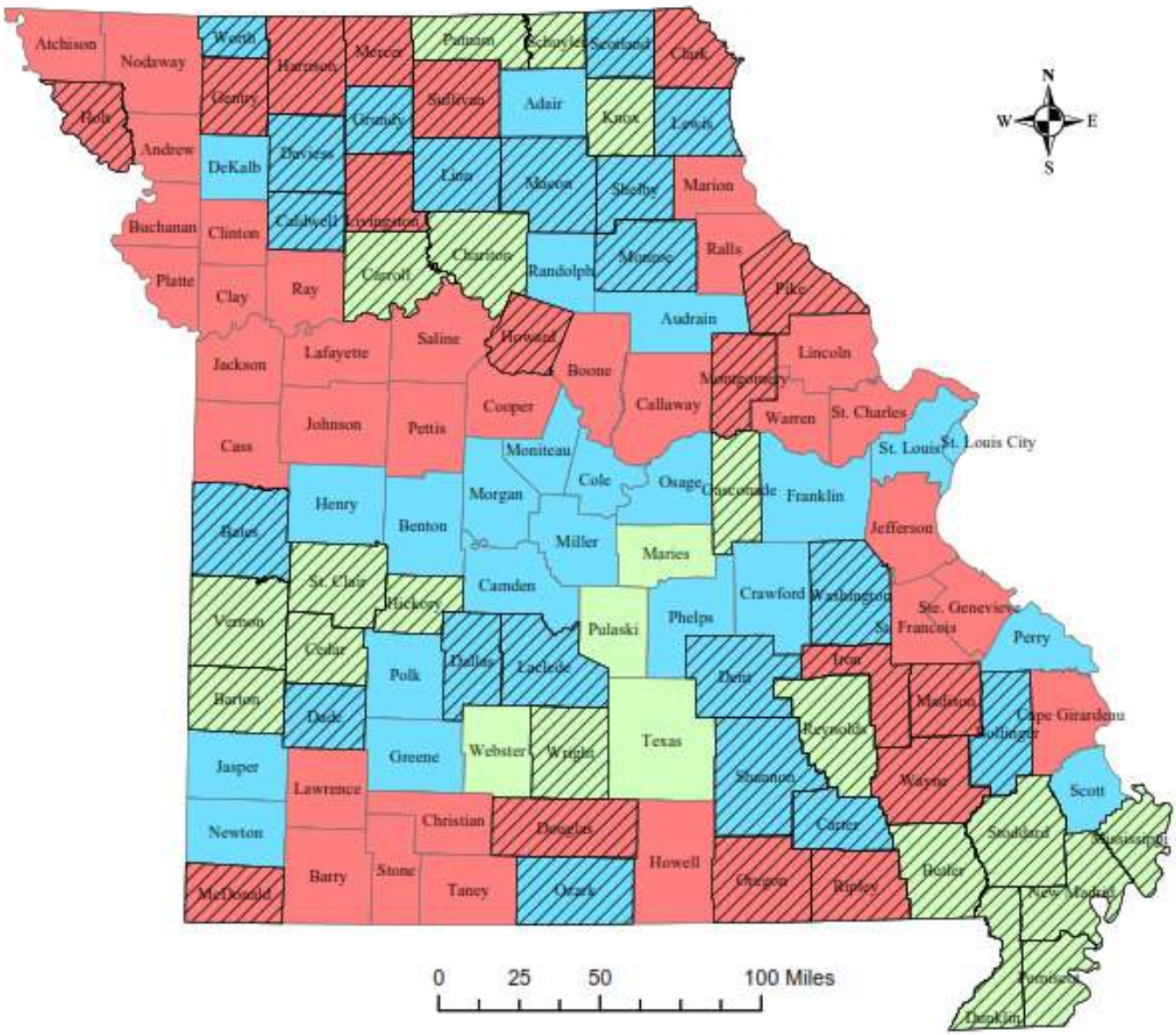
All homes should be tested, regardless of zone designation.



IMPORTANT: Consult the publication entitled "Preliminary Geologic Radon Potential Assessment of Missouri" (USGS Open-file Report 93-292-G) before using this map. http://energy.cr.usgs.gov/radon/grpinfo.html This document contains information on radon potential variations within counties. EPA also recommends that this map be supplemented with any available local data in order to further understand and predict the radon potential of a specific area.

Zone 1 Zone 2 Zone 3

Average Radon Level in Tested Homes



Average by County

- < 2.0 pCi/L
- 2.0 - 3.9 pCi/L
- >= 4.0 pCi/L
- < 30 homes tested

*Source: Bureau of Environmental Epidemiology
Indoor Air Quality Database 2005 - 2015

APPENDIX C – SITE PHOTOGRAPHS & DRAWINGS



Room 14 Entrance



Room 14 Sample Location

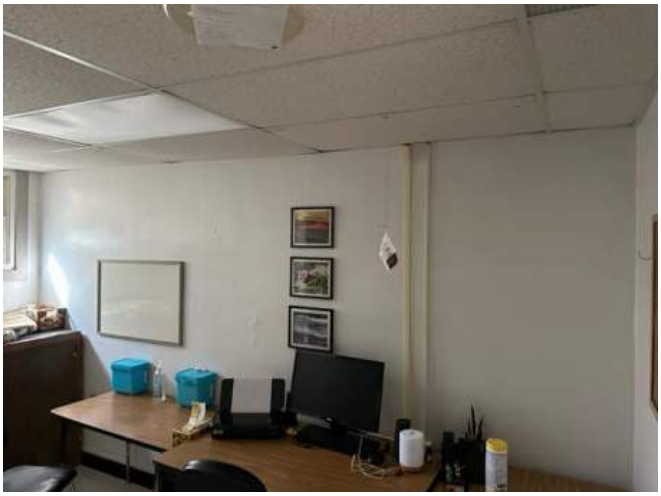




Room 14 Device Serial Numbers



Room 13 Entrance



Room 13 Sample Location



Room 13 Device Serial Number



Room 12 Entrance



Room 12 Overview



Room 12 Device Serial Number



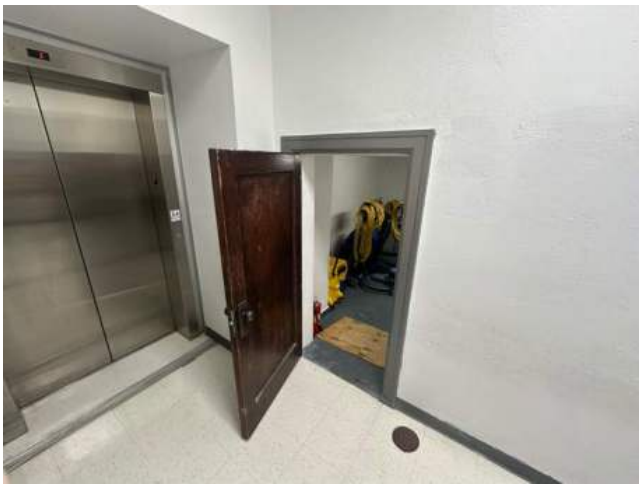
Room 11 Entrance



Room 11 Sample Location



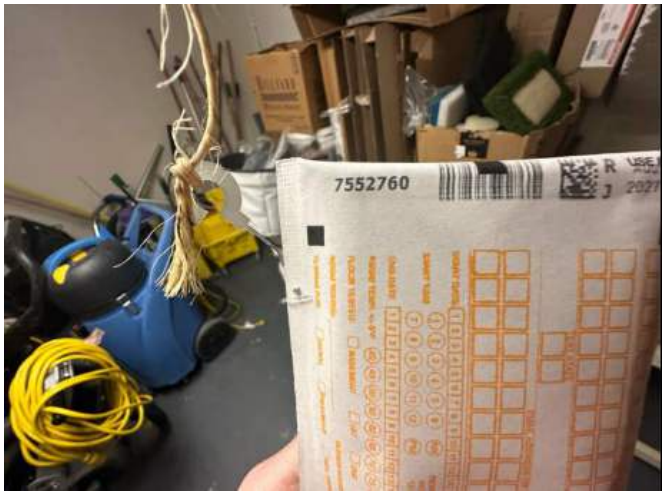
Room 11 Device Serial Number



Basement Storage Room Entrance



Basement Storage Overview



Basement Storage Device Serial Number

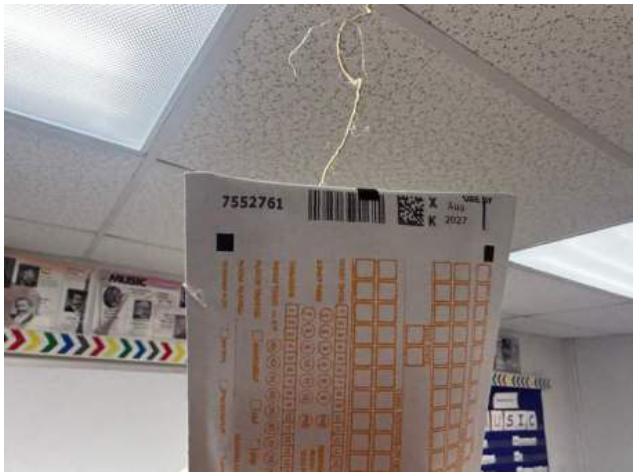


Room 10 Entrance



Room 10 Sample Location





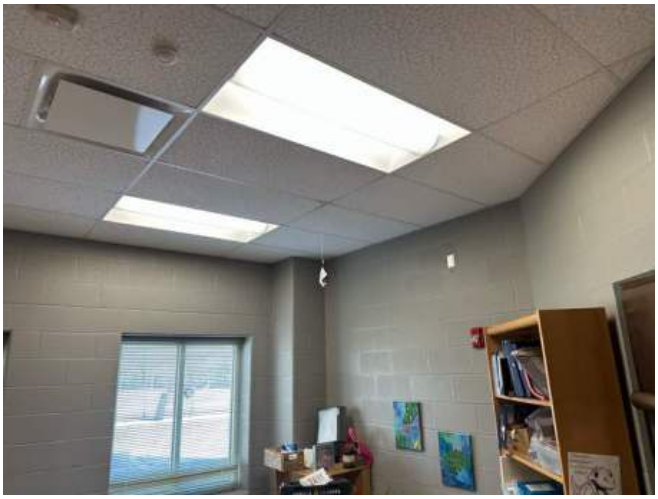
Room 10 Device Serial Numbers





Library Media Room (east) Sample Location



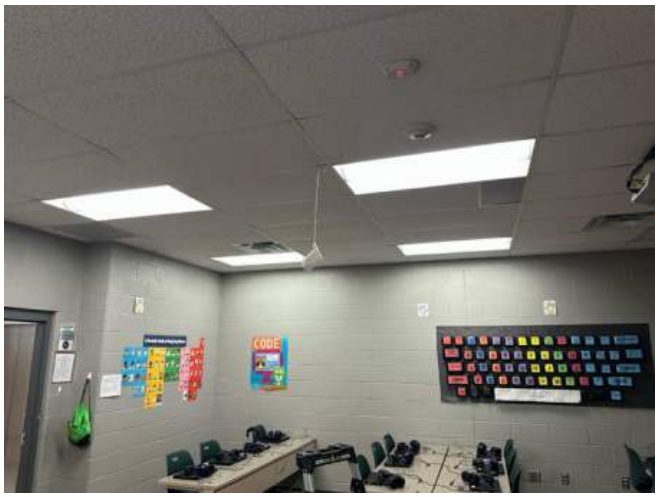


Library Media Room (west) Device Serial Number

Library A Sample Location



Library A Device Serial Number



Computer Lab Sample Location



Computer Lab Device Serial Number

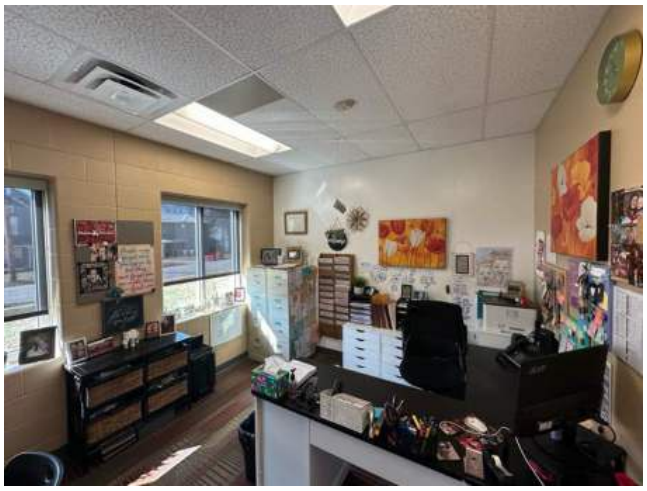


Office 1 Sample Location





Office 1 Device Serial Numbers



Office 2 Sample Location



Office 2 Device Serial Number



Copy Room Sample Location



Copy Room Device Serial Number



Classroom 111 Entrance



Classroom 111 Sample Location



Classroom 111 Device Serial Number



Room 110 Entrance



Room 110 Sample Location



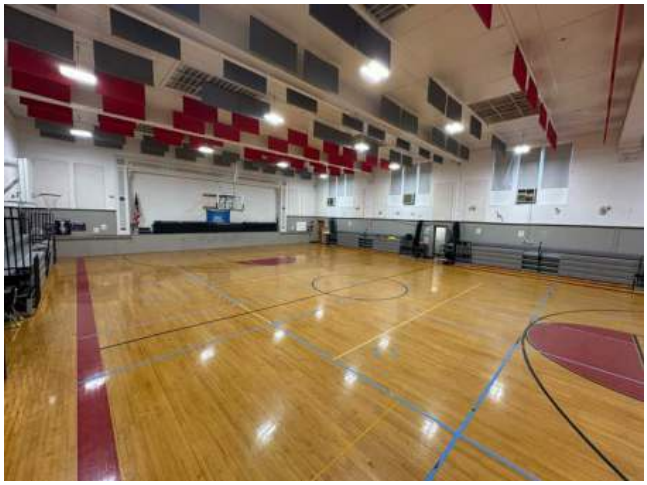
Room 110 Device Serial Number



Classroom 109 Sample Location



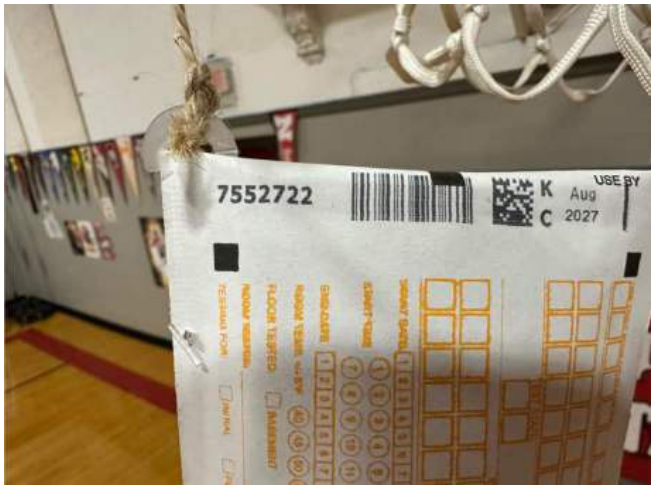
Classroom 109 Device Serial Number



Gym Overview 1



Gym (SE) Device Serial Number



Gym (east) Device Serial Number



Gym (east) Sample Location



Gym (SW) Device Serial Number



Gym (west) Device Serial Number



Gym (NW) Device Serial Number



Gym (NE) Device Serial Number





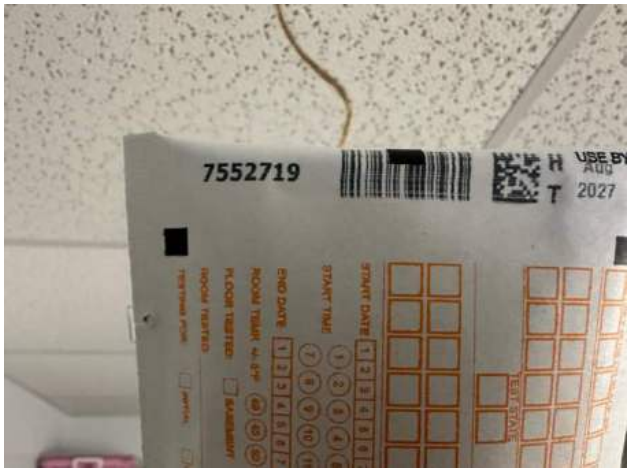
1st Floor South Hall Sample Location



Classroom 108 Entrance



Classroom 108 Sample Location



Classroom 108 Device Serial Number



Classroom 107 Entrance



Classroom 107 Sample Location



Classroom 107 Device Serial Number

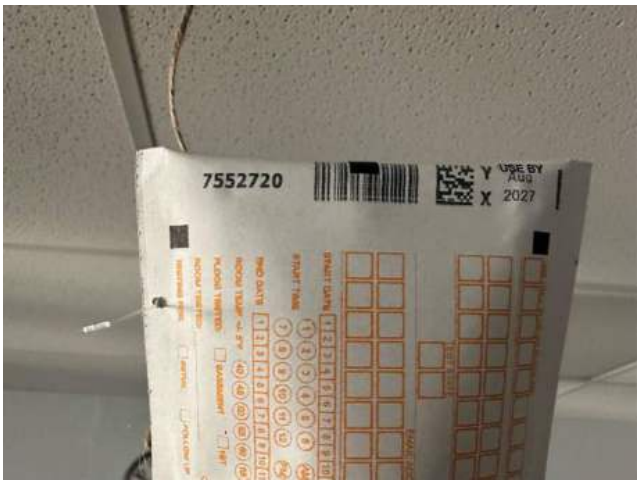


Classroom 106 Entrance



Classroom 106 Sample Location

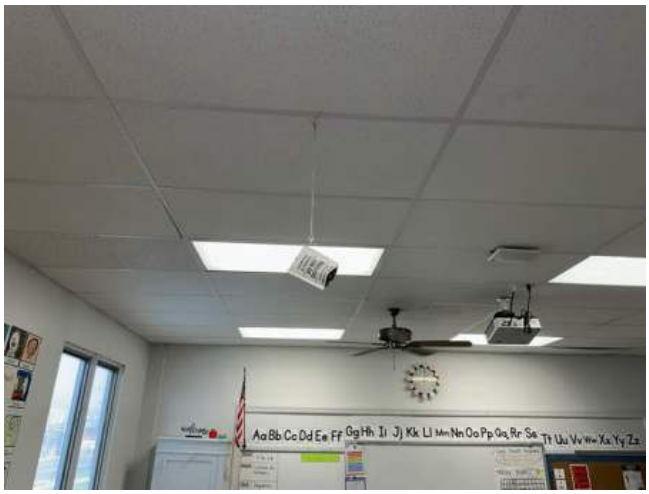




Classroom 106 Device Serial Numbers



Classroom 104 Entrance



Classroom 104 Sample Location

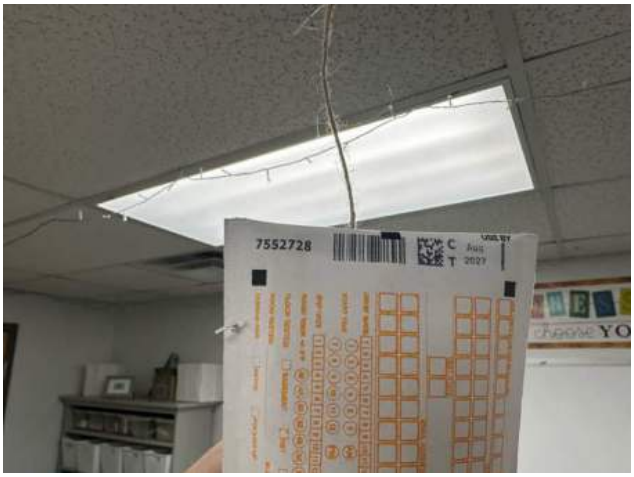


Classroom 104 Device Serial Number



Classroom 105 Entrance





Classroom 105 Sample Location





1st Floor West Hall Sample Location



Classroom 103 Entrance



Classroom 103 Sample Location



Classroom 103 Device Serial Number



Classroom 102 Entrance





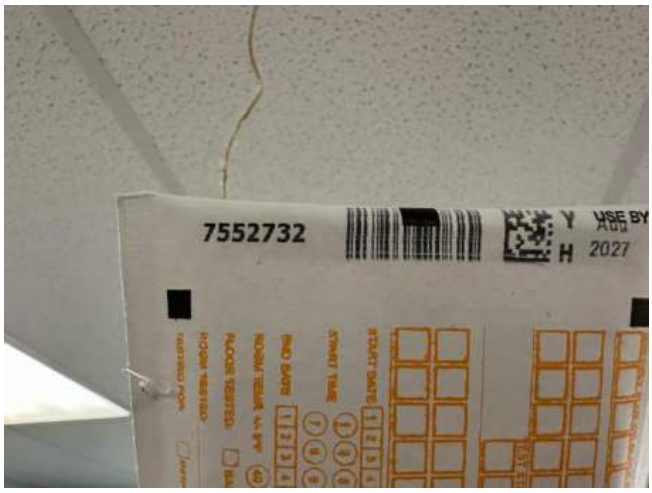
Classroom 102 Sample Location



Classroom 101 Entrance



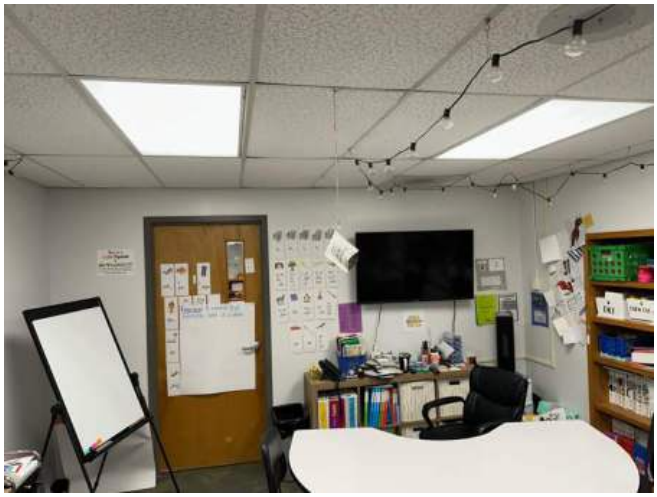
Classroom 101 Sample Location



Classroom 101 Device Serial Number



Classroom 121 Entrance





Classroom 101 Sample Location





Custodial Office Sample Location



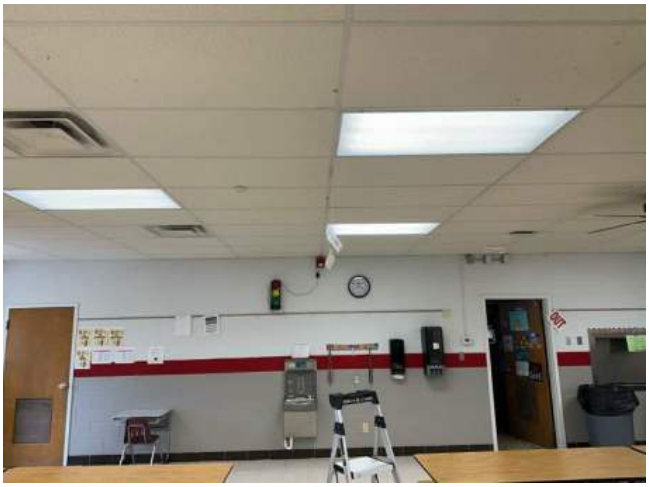
South Ca eterial Overview



South Ca eterial Sample Location



South Ca eteria Device Serial Number



North Ca eteria Sample Location





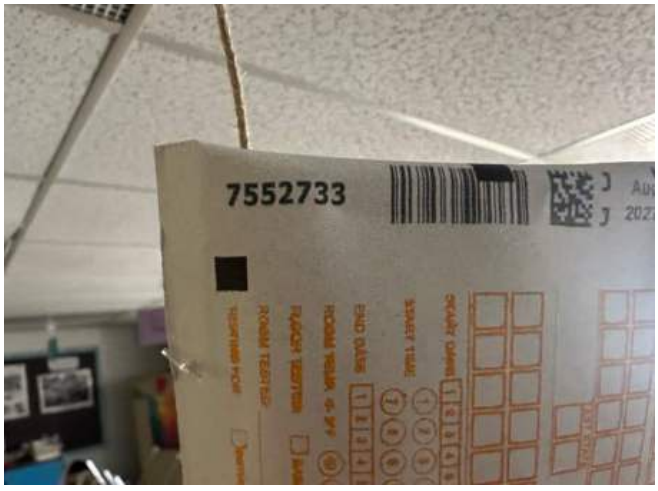
North Ca eteria Device Serial Numbers



Classroom 119 Entrance



Classroom 119 Sample Location



Classroom 119 Device Serial Number



Room 118 Entrance





Room 118 Sample Location



Faculty Room 117 Entrance



Faculty Room 117 Sample Location



Faculty Room 117 Device Serial Number



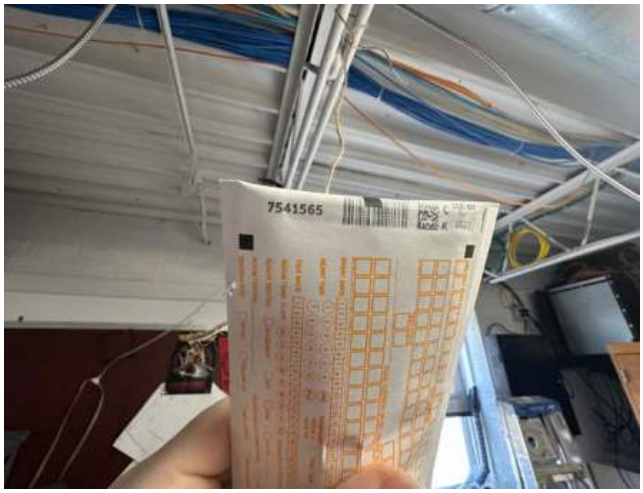
3rd Grade Storage Room Sample Location



3rd Grade Storage Room Device Serial Number



Server Room Sample Location



Servier Room Device Serial Number



North Hall Sample Location



North Hall Device Serial Number



Classroom 116 Entrance





Classroom 116 Sample Location



Classroom 115 Entrance



Classroom 115 Sample Location

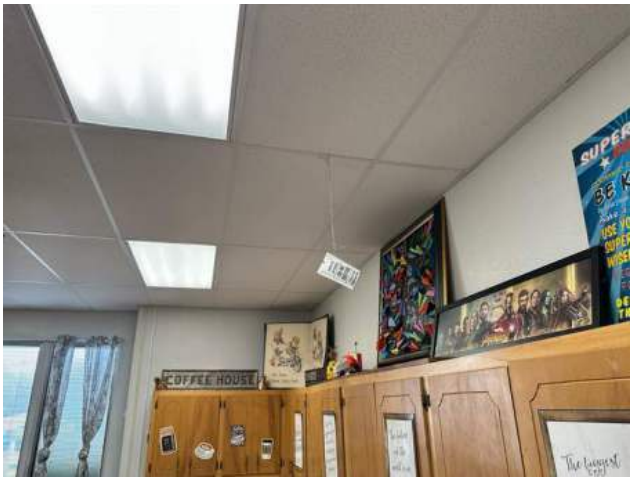




Classroom 115 Device Serial Numbers



Room 114 Entrance



Room 114 Sample Location



Room 114 Device Serial Number



Classroom 113 Entrance





Classroom 113 Sample Location





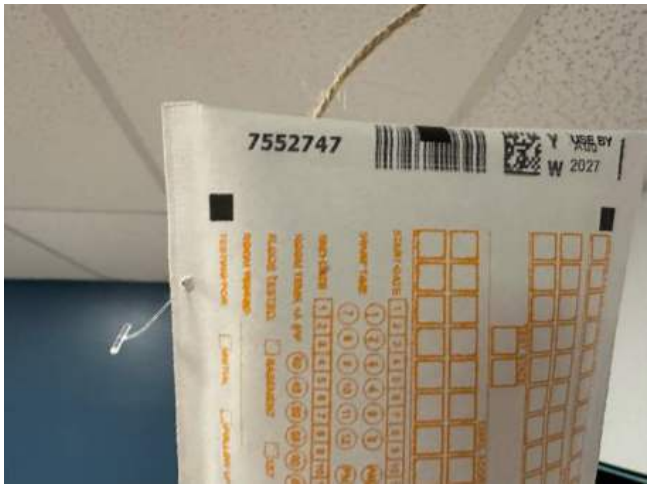
East Hall Sample Location



Classroom 112 Entrance



Classroom 112 Sample Location

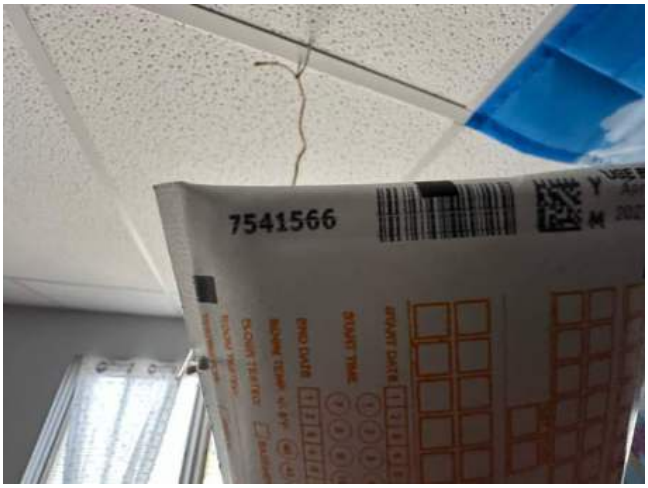


Classroom 112 Device Serial Number



Classroom 202 Entrance





Classroom 202 Sample Location



Classroom 213 Entrance



Classroom 213 Sample Location



Classroom 213 Device Serial Number





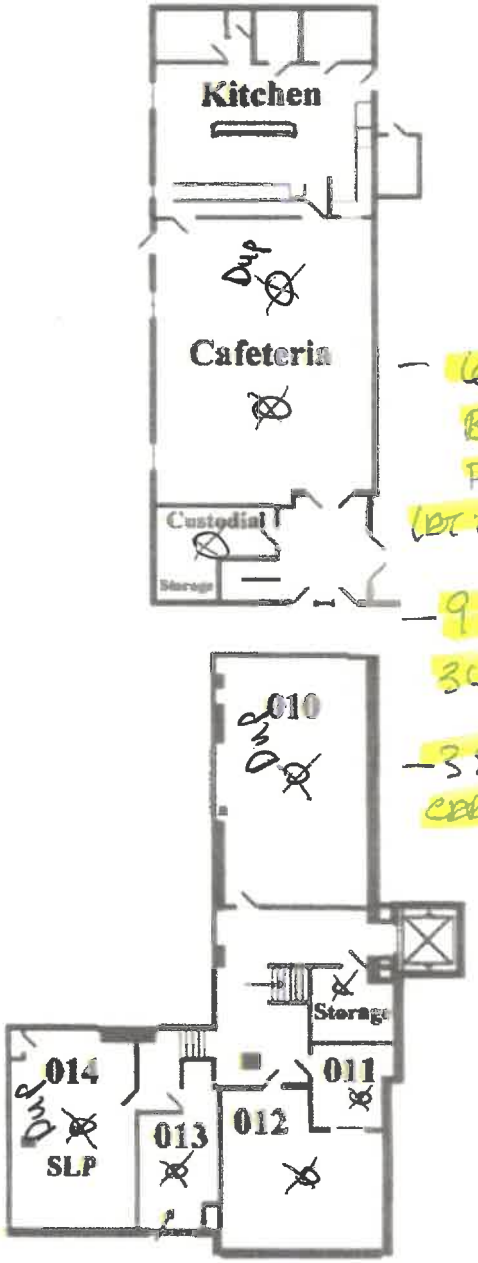
Gym Overview 2

SUGGESTED RADON DEVICE PLACEMENT

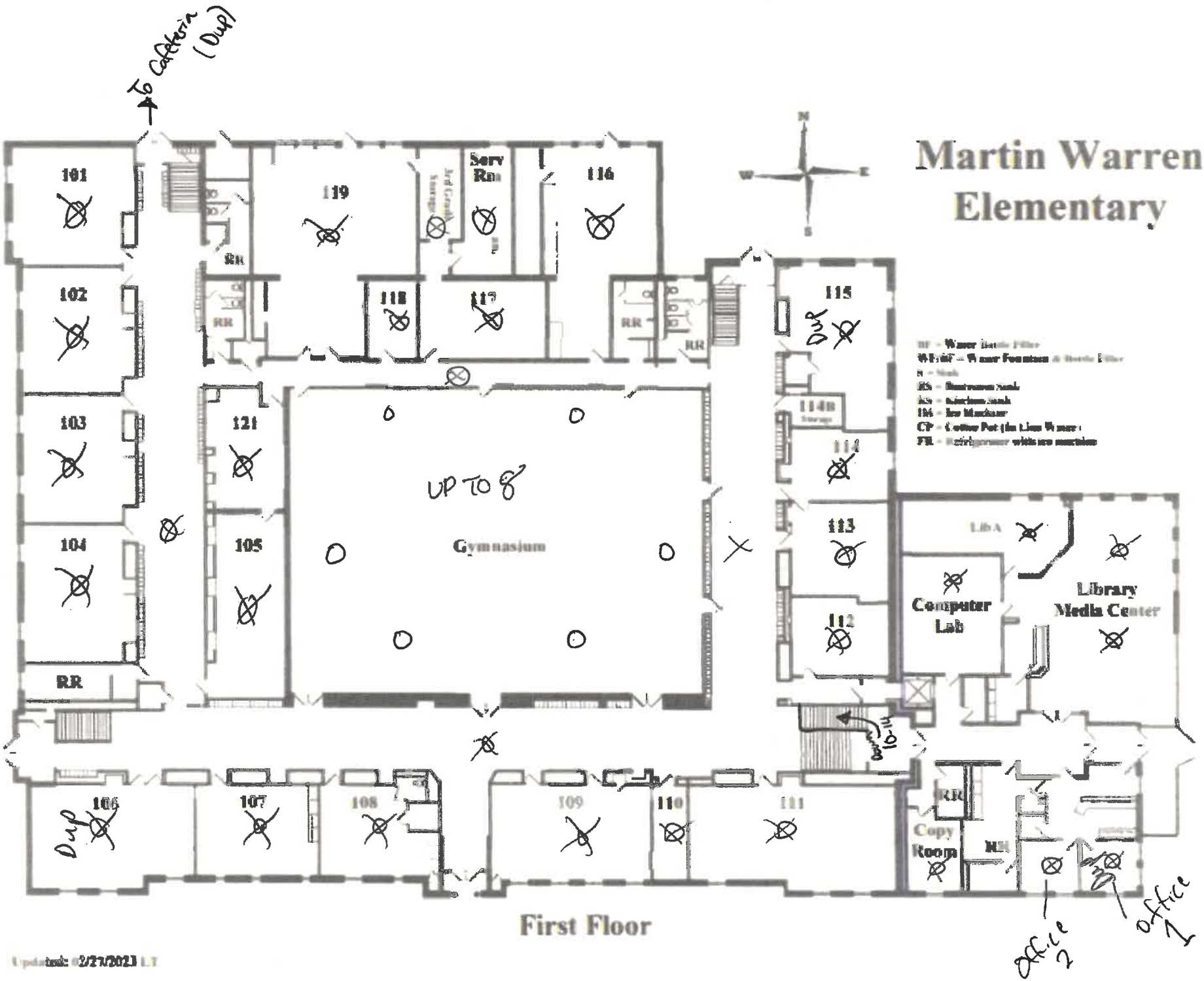


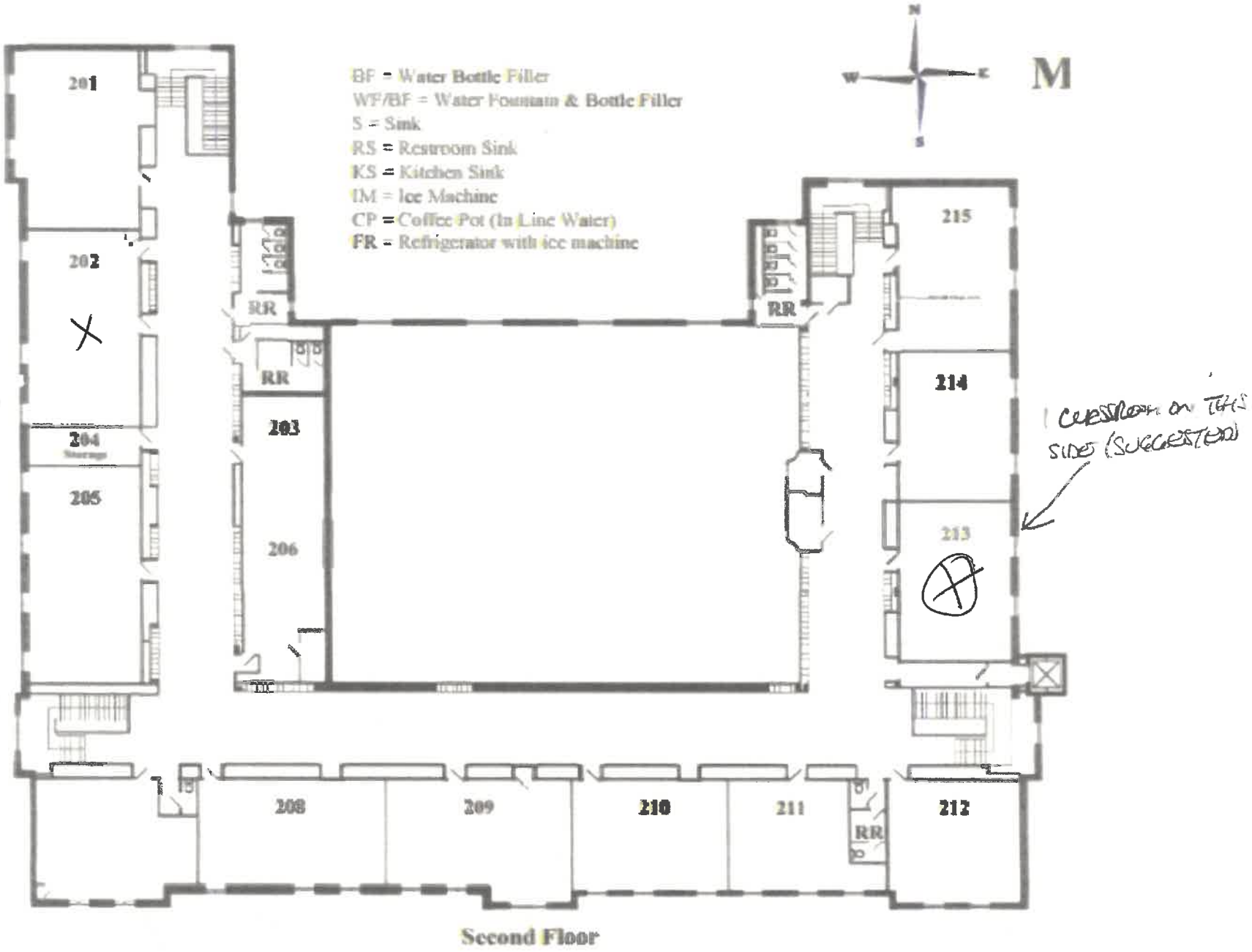
Martin Warren Elementary

BASEMENT



- 6 DUPLICATES IN BASEMENT + 1ST FLOOR (DET. RMP DISCRETION)
- 9 BCRMCS (3 OFFICES, 3 CLRS, 3 TRLR)
- 3 SPACES (LIKE TYPES CLOSE OF)


To cafeteria (Dup)
Martin Warren Elementary
101
102
103
104
RR
119
Serv Rm
116
118
117
RR
RR
115
Dup
114B
114
113
112
121
105
Gymnasium
UP TO 8
Lib A
Computer Lab
Library Media Center
106
Dup
107
108
109
110
111
RR
Copy Room
MH
Office 2
Office 1
First Floor



Second Floor

APPENDIX D – TES PERSONNEL CERTIFICATIONS

Karla Granger

Has satisfactorily fulfilled the requirements set forth by the
National Radon Proficiency Program and is therefore certified as a:

Radon Measurement Professional

with Standard Services

NRPP ID 107404-RMP
Issued On: 2026-01-12 Expires: 2028-01-31

Valid for specific activities or measurement devices, which can be verified with NRPP. State and local agencies may have additional requirements.

In witness Whereof,
I have subscribed my name as a
Representative of NRPP

Ashley Falco
Chair, Certification Council