

# Short-Term Radon Measurement Assessment Report

Central Elementary School

925 H Avenue

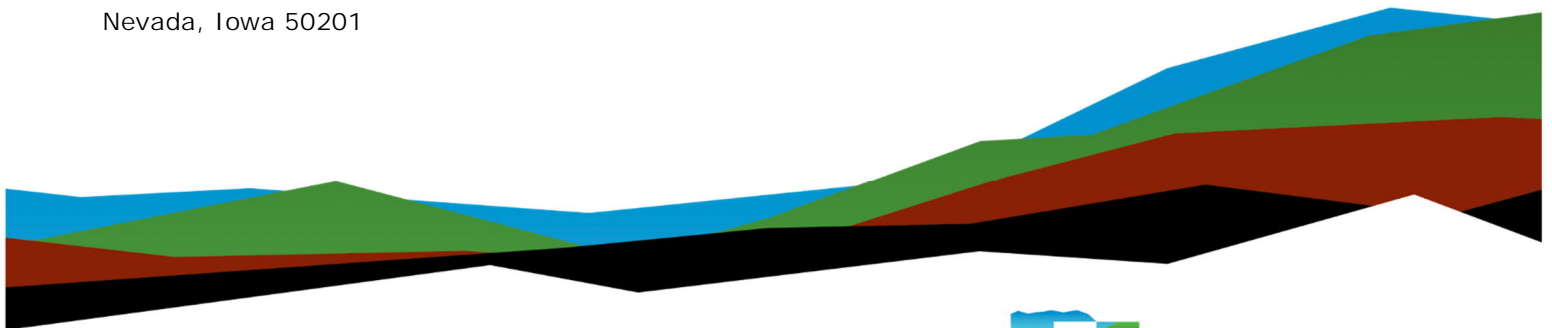
Nevada, Iowa 50201

April 29, 2024 | Project Number: 08237091R

Prepared for:



Nevada Community School District  
1035 15<sup>th</sup> Street  
Nevada, Iowa 50201



Nationwide  
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- Facilities
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April 29, 2024

Nevada Community School District  
1035 15<sup>th</sup> Street  
Nevada, Iowa 50201

Attn: Mr. Dave Kroese  
P: (515) 291-4054  
E: [dkroese@nevada.k12.ia.us](mailto:dkroese@nevada.k12.ia.us)

Re: Short-Term Radon Measurement Assessment Report  
Central Elementary School  
925 H Avenue  
Nevada, Iowa 50201  
Terracon Project No. 08237091R

Dear Mr. Kroese:

Terracon Consultants, Inc. (Terracon) collected short-term radon measurements at Central Elementary Community School on behalf of the Nevada Community School District (NCSD). This measurement event was conducted in accordance with Terracon's Proposal No. P08237091 dated May 2, 2023. Terracon collected short-term radon measurements from October 23 to 27, 2023, and conducted re-testing activities from November 27 to December 1, 2023. The objective of this work was to evaluate radon concentrations within the school based on the new Iowa House File 2412 act requiring all Iowa public school districts to perform radon testing at each of the attendance centers by July 1, 2027.

Terracon appreciates the opportunity to provide services to you. If we can provide additional environmental, occupational health, or safety-related services, please contact us at (515) 244-3184.

Sincerely,  
[Terracon Consultants, Inc.](http://Terracon.com)

Prepared by:

A handwritten signature in black ink, appearing to read "Austin J. Potthoff".

Austin J. Potthoff  
Project Manager

Reviewed by:

A handwritten signature in blue ink, appearing to read "J. Rush Bowers".

J. Rush Bowers, CIH, CSP  
Senior Industrial Hygiene Consultant  
Authorized Project Reviewer

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## 1.0 Field Activities

### 1.1 Initial Short-Term Testing

Radon measurements were collected from October 23 to 27, 2023, by a State of Iowa certified radon measurement specialist in accordance with Terracon's Radon Testing Quality Assurance Plan for Activated Charcoal Adsorption (QAP) and the American National Standards Institute (ANSI) / American Association of Radon Scientists and Technologies (AARST) Protocol for Conducting Measurements of Radon and Radon Decay Products in Schools and Large Buildings. Terracon's QAP is based on guidelines set forth by the United States Environmental Protection Agency (USEPA) and the Iowa Department of Public Health (IDPH). Radon measurements were collected by Mr. Austin Potthoff (certification number RNTST10075). A copy of Mr. Potthoff's certification can be found in Appendix C in this report.

Terracon informed NCSD that closed-building conditions would be required beginning 12 hours prior to the test and continuing for the duration of the test. Terracon did not observe deviations from the closed-building conditions while placing or upon retrieval of the devices.

The radon devices were placed between two feet and less than eight feet above the floor surface, a minimum of one foot from exterior walls, in areas of normal air circulation, away from air vents, and a minimum of three feet from exterior doors and windows. Heating, ventilating, and air-conditioning (HVAC) systems in the areas were set to auto and appeared to be working properly. Terracon collected 80 measurements in the building using activated charcoal devices obtained from an Iowa-certified laboratory. Terracon submitted two field blanks, two lab blanks, and eight duplicates to the laboratory for quality control purposes. Field logs from the initial testing period summarizing the analytical results, measurement locations, blanks, and duplicates can be found in Appendix A of this report.

The activated charcoal devices used for the testing were shipped under chain-of-custody to AirChek, Inc., in Mills River, North Carolina for analysis to detect gamma rays by scintillation counting using sodium iodide detectors. AirChek, Inc. is an Iowa-certified radon laboratory (#L00009).

### 1.2 Short-Term Re-testing

Terracon collected additional short-term measurements from November 27 to December 1, 2023, in initially tested spaces indicated to have radon levels above the action level of 4.0 pCi/L. USEPA and IDPH guidance indicates spaces with initial testing results at or above 4.0 pCi/L should be re-tested, and results averaged with initial testing results to determine the possible need for mitigation.

## 2.0 Radon Guidance

The following has been excerpted from the ANSI/AARST<sup>1</sup> Protocol for Conducting Radon Measurements in Schools and Large Buildings (MALB-2014), Section II: iv, Guidance for Building Managers and reflects guidance from the USEPA regarding recommended actions based on initial radon testing:

- 4.0 picoCuries per liter (pCi/L) or greater: If testing indicates radon concentrations equal to or greater than 4.0 pCi/L, reduce the radon to below 4.0 pCi/L in any office area, classroom, exercise facility, meeting room, dining area or other common area. The higher the radon concentration, the more quickly action should be taken to reduce the concentrations.
- Below 4.0 pCi/L: Radon concentrations below 4.0 pCi/L still pose a risk to occupants. Consider fixing the building if test results indicate radon concentrations between 2.0 and 4.0 pCi/L. Note that reducing and accurately confirming radon concentrations of about 2.0 pCi/L or below may be difficult. If test results are below the action level, confirm the low results by testing again, at least every 5 years and whenever significant changes to the building's structure or mechanical systems occur.
- Non-Residential Rooms/Enclosed Spaces: Radon concentrations should be reduced if either of these areas are occupiable with little or no modification and/or these areas serve as a source of radon into occupied areas of upper story floors that have radon concentrations equal to or greater than 4.0 pCi/L.

## 3.0 Summary of Findings

### 3.1 Initial Testing

Analytical results indicated that radon concentrations were detected above 4.0 pCi/L in some of the samples collected. Radon concentrations ranged from less than (<) 0.3 to 4.4 pCi/L. Analytical results for devices collected for quality control purposes were found to be within control limits. These results are used to help measure precision and evaluate bias associated with radon concentration measurements. The laboratory report is attached.

Rooms with reported radon concentrations greater than the 4.0-pCi/L EPA action level are highlighted in the analytical report in Appendix B and include:

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<sup>1</sup> American National Standards Institute/American Association of Radon Scientists and Technologists

- Room 57 (4.0 pCi/L)
- Room 68 (4.3 pCi/L)
- Room 69 (4.4 pCi/L)
- Gym Sample 'C' (4.3 pCi/L). Note that the average of the four Gym measurements is 3.8 pCi/L, which is below the EPA action level.

Following verbal receipt of the testing results, the Buildings and Grounds Manager for NCSD, Mr. Dave Kroese, indicated that it appeared that some fresh air vents in Rooms 57 and 69 were covered at the time of the testing. It is also worth noting that it was unseasonably warm the week that testing was conducted, and it is likely that the HVAC systems were not supplying fresh outdoor air at the rate they typically would in late October in Nevada, Iowa. Both of these situations could have contributed to the radon concentrations measured. Mr. Kroese indicated the HVAC systems supplying air to these spaces would be examined to determine if they are working at full capacity prior to re-testing activities.

Please note that there is some uncertainty associated with radon measurements. Factors that effect this uncertainty include but are not limited to, variations related to seasonal weather and operation of building mechanical equipment. 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. Bear in mind that any radon test returns only the average of the levels present during the time of testing 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.

### 3.2 Re-Testing

Re-testing locations and results are indicated below:

- Room 57 (3.0 pCi/L)
- Room 68 (3.3 pCi/L)
- Room 69 (3.2 pCi/L)

The average of these re-testing results with their respective initial testing results are all below the USEPA action level.

## 4.0 Recommendations

Based on the analytical results of the radon measurements and USEPA and IDPH guidance, Terracon recommends the following:

Additional testing should take place when one or more of the following conditions are met:

- A new addition is added;
- HVAC equipment is added, removed, replaced, operated differently or improperly maintained;
- Significant changes to the slab or foundation, such as major cracks or penetrations from natural settling, or water proofing or groundwater control efforts;
- An installed mitigation system is altered, modified, or repaired;
- A ground contact area that was not previously tested is occupied; or
- Every 5 years based on Iowa House File 2412.

## 5.0 General Comments

This radon measurement event was conducted in a manner consistent with the level of care and skill ordinarily exercised by members of the profession currently practicing under similar conditions in the same locale. The results, findings, and recommendations expressed in this report are based on conditions observed during our survey of the building. The information contained in this report is relevant to the date on which this survey was conducted and should not be relied upon to represent conditions at a later date. This report has been prepared on behalf of and exclusively for use by the Nevada Community School District, for specific application to their project as discussed. This report is not a bidding document. Contractors, consultants, or others reviewing this report must draw their own conclusions regarding further investigation or remediation deemed necessary. Terracon does not warrant the work of regulatory agencies, laboratories, or other third parties supplying information that may have been used in the preparation of this report. No warranty, express or implied is made.

## Appendix A: Terracon Field Logs

# Terracon Consultants, Inc.

## Activated Charcoal Field Log and Custody Log

Building Name: Central Elementary  
 Building Address: 925 H Avenue, Nevada, IA  
 Device Placement Performed by: Austin Rothblatt Device Retrieval Performed by: Austin Rothblatt  
 Signatures: [Signature] [Signature]

Test Kit #	Room #/ ID	Start Date	Start Time	Stop Date	Stop Time	Temp. (F)	Measured Value	Comments
✓ 11712699	23	10/23	6:28	10/27	6:34	70°F	See results	N/A
✓ 11712700	22		6:29		↓			
✓ 11712698	21		6:31		↓			
✓ 11712697	24		6:32		6:36			
✓ 11712696	25		6:33		↓			
✓ 11712695	18		6:35		↓			
✓ 11712694	20		6:37		6:40			
✓ 11712689	19		6:39		↓			
✓ 11712688	17		6:40		↓			
✓ 11712687	16		6:42		6:43			
✓ 11712693	26		6:44		↓			
✓ 11712690	27		6:46		↓			
✓ 11712692	29B		6:48		6:45			
✓ 11712691	29A		6:49		↓			
✓ 11712686	28		6:51		↓			

# Terracon Consultants, Inc.

## Activated Charcoal Field Log and Custody Log

Building Name:

Central Elementary

Building Address:

925 H Avenue, Nevada, IA

Device Placement Performed by:

Austin Rathbun

Device Retrieval Performed by:

Austin Rathbun

Signatures:

[Signature]

[Signature]

Test Kit #	Room #/ ID	Start Date	Start Time	Stop Date	Stop Time	Temp. (F)	Measured Value	Comments
✓ 11712681	15	10/27	6:53	10/27	6:48	70°	See Results	N/A
✓ 11712682	14		6:55		↓			
✓ 11712685	Cafeteria		6:56		↓			
✓ 11712684	Cafeteria		6:58		6:49			
✓ 11712678	13		7:00		↓			
✓ 11712683	12		7:01		6:50			
✓ 11712673	9		7:03		↓			
✓ 11712677	8		7:05		↓			
✓ 11712672	205		7:07		6:53			
✓ 11712671	54		7:09		↓			
✓ 11712674	55		7:10		↓			
✓ 11712670	49-stage		7:12		6:55			
✓ 11712676	49-lunch		7:13		↓			
✓ 11712675	49-lunch		7:15		↓			
✓ 11712669	56		7:17		6:57			

# Terracon Consultants, Inc.

## Activated Charcoal Field Log and Custody Log

Building Name: Central Elementary  
 Building Address: 925 H Avenue, Nevada, IA  
 Device Placement Performed by: Austin Rothblatt Device Retrieval Performed by: Austin Rothblatt  
 Signatures: [Signature] [Signature]

Test Kit #	Room #/ ID	Start Date	Start Time	Stop Date	Stop Time	Temp. (F)	Measured Value	Comments
✓ 11712665	57	10/23	7:17	10/27	6:57	70°	See Results	N/A
✓ 11712668	kitchen area		7:17		↓			
✓ 11712664	7		7:19		↓			
✓ 11712663	6		7:21		7:00			
✓ 11712662	library		7:22		↓			
✓ 11712666	library		7:23		↓			
✓ 11712661	5		7:25		7:04			
✓ 11712660	4		7:27		↓			
✓ 11712656	10		7:29		↓			
✓ 11712658	3		7:31		7:08			
✓ 11712657	2		7:33		↓			
✓ 11712659	1		7:35		↓			
✓ 11712655	64		7:37		7:10			
✓ 11712654	65		7:38		↓			
✓ 11712653	63		7:40		7:11			

# Terracon Consultants, Inc.

## Activated Charcoal Field Log and Custody Log

Building Name: Central Elementary  
 Building Address: 925 H Avenue, Nevada, IA  
 Device Placement Performed by: Austin Rathbald Device Retrieval Performed by: Austin Rathbald  
 Signatures: [Signature] [Signature]

Test Kit #	Room #/ ID	Start Date	Start Time	Stop Date	Stop Time	Temp. (F)	Measured Value	Comments
✓ 11712651	66	10/23	7:41	10/27	7:11	70°	See Results	N/A
✓ 11712648	62		7:43		↓			
✓ 11712650	67		7:44		7:13			
✓ 11712649	61		7:46		↓			
✓ 11712647	68		7:48		↓			
✓ 11712645	69		7:50		7:15			
✓ 11712644	70		7:51		↓			
✓ 11712639	60		7:52		↓			
✓ 11712640	71		7:53		7:18			
✓ 11712643	72		7:55		↓			
✓ 11712642	59		7:56		7:22			
✓ 11712638	73		7:57		↓			
✓ 11712637	58		7:59		↓			
✓ 11712641	So. office		8:01		7:25			
✓ 11712635	Art-51		8:04		7:31			

# Terracon Consultants, Inc.

## Activated Charcoal Field Log and Custody Log

Building Name: Central Elementary  
 Building Address: 925 H Avenue, Nevada, IA  
 Device Placement Performed by: Austin Rathbolt Device Retrieval Performed by: Austin Rathbolt  
 Signatures: [Signature] [Signature]

Test Kit #	Room #/ ID	Start Date	Start Time	Stop Date	Stop Time	Temp. (F)	Measured Value	Comments
✓ 11712631	Gym	10/23	8:04	10/27	7:32	70°	See Results	N/A
✓ 11712632	↓	↓	↓	↓	↓	↓	↓	↓
✓ 11712633	↓	↓	8:07	↓	↓	↓	↓	↓
✓ 11712634	↓	↓	8:10	↓	↓	↓	↓	↓
✓ 11712630	Loech Office	↓	8:16	↓	7:36	↓	↓	↓
✓ 11712629	37	↓	↓	↓	↓	↓	↓	↓
✓ 11712628	46	↓	8:20	↓	↓	↓	↓	↓
✓ 11712627	45	↓	↓	↓	7:40	↓	↓	↓
✓ 11712626	44	↓	8:23	↓	↓	↓	↓	↓
✓ 11712625	43	↓	8:25	↓	↓	↓	↓	↓
✓ 11712623	42	↓	↓	↓	7:42	↓	↓	↓
✓ 11712621	39	↓	8:27	↓	↓	↓	↓	↓
✓ 11712620	38	↓	↓	↓	↓	↓	↓	↓
✓ 11712616	36	↓	8:30	↓	7:44	↓	↓	↓
✓ 11712619	35	↓	8:35	↓	↓	↓	↓	↓

# Terracon Consultants, Inc.

## Activated Charcoal Field Log and Custody Log

Building Name: Central Elementary  
 Building Address: 925 H Avenue, Nevada, IA  
 Device Placement Performed by: Austin Rothwell Device Retrieval Performed by: Austin Rothwell  
 Signatures: [Signature] [Signature]

Test Kit #	Room #/ ID	Start Date	Start Time	Stop Date	Stop Time	Temp. (F)	Measured Value	Comments
✓ 11712617	34	10/23	8:38	10/27	7:46	70°	See Results	N/A
✓ 11712614	40/41	↓	8:40	↓	↓	↓	↓	↓
✓ 11712613	32	↓	8:42	↓	7:49	↓	↓	↓
✓ 11712611	33	↓	8:43	↓	↓	↓	↓	↓
✓ 11712610	31	↓	8:47	↓	↓	↓	↓	↓

# Terracon Consultants, Inc.

## Activated Charcoal Duplicate Log

Building Name: Central Elementary  
 Building Address: 925 H Avenue, Nevada, IA  
 Device Placement Performed by: Austin Rotholtz Device Retrieval Performed by: Austin Rotholtz  
 Signatures: [Signature] [Signature]

Test Kit #	Room #/ ID	Start Date	Start Time	Stop Date	Stop Time	Measured Value	Comments/ RPD
✓ 11712680	28	10/23	6:51	10/27	6:45	See results	Office A
✓ 11712679	14		6:55		6:48		Teachers office
✓ 11712667	5		7:25		7:04		Janitors office
✓ 11712652	63		7:40		7:11		Office B
✓ 11712646	69		7:50		7:15		Office C
<del>11712639</del>	<del>60</del>						Supply Office
✓ 11712636	54		7:59		7:22		
✓ 11712618	34		8:38		7:46		Teacher's Lounge
✓ 11712612	33		8:43		7:49		Staff Mail Room

RPD = (Larger Result - Smaller Result/ Average of Both Results) x 100

# Terracon Consultants, Inc.

## Activated Charcoal Field Blank Log

Building Name: Central Elementary  
 Building Address: 925 H Avenue, Nevada, IA  
 Device Placement Performed by: Austin Rothholt Device Retrieval Performed by: Austin Rothholt  
 Signatures: [Signature] [Signature]

Test Kit #	Room #/ ID	Start Date	Start Time	Stop Date	Stop Time	Measured Value	Comments
✓ 11712622	V3	10/23	8:25	10/27	7:38	See Results	Nurse office
✓ 11712624	39	↓	8:27	↓	7:42	↓	Student study Room
11712608	Lab	↓	8:00	↓	8:00	↓	74
11712609	Lab	↓	8:00	↓	8:00	↓	75

## Appendix B: AirChek Analytical Reports

Radon test result report for:**NEVADA COMMUNITY SCHOOL DISTRICT  
CENTRAL ELEMENTARY SCHOOL**

Kit #	Room Id	Started	Ended	pCi/L	Analyzed
11712659	1	2023-10-23 @ 8:00 am	2023-10-27 @ 7:00 am	1.0 ± 0.3	2023-10-30
11712656	10	2023-10-23 @ 8:00 am	2023-10-27 @ 7:00 am	1.9 ± 0.3	2023-10-30
11712683	12	2023-10-23 @ 7:00 am	2023-10-27 @ 7:00 am	1.3 ± 0.3	2023-10-30
11712678	13	2023-10-23 @ 7:00 am	2023-10-27 @ 7:00 am	1.5 ± 0.3	2023-10-30
11712682	14	2023-10-23 @ 7:00 am	2023-10-27 @ 7:00 am	1.4 ± 0.4	2023-10-30
11712681	15	2023-10-23 @ 7:00 am	2023-10-27 @ 7:00 am	1.5 ± 0.4	2023-10-30
11712687	16	2023-10-23 @ 7:00 am	2023-10-27 @ 7:00 am	1.2 ± 0.3	2023-10-30
11712688	17	2023-10-23 @ 7:00 am	2023-10-27 @ 7:00 am	1.1 ± 0.3	2023-10-30
11712695	18	2023-10-23 @ 7:00 am	2023-10-27 @ 7:00 am	1.6 ± 0.3	2023-10-30
11712689	19	2023-10-23 @ 7:00 am	2023-10-27 @ 7:00 am	1.3 ± 0.3	2023-10-30
11712657	2	2023-10-23 @ 8:00 am	2023-10-27 @ 7:00 am	1.5 ± 0.3	2023-10-30
11712694	20	2023-10-23 @ 7:00 am	2023-10-27 @ 7:00 am	0.9 ± 0.3	2023-10-30
11712672	205	2023-10-23 @ 7:00 am	2023-10-27 @ 7:00 am	1.6 ± 0.3	2023-10-30
11712698	21	2023-10-23 @ 7:00 am	2023-10-27 @ 7:00 am	1.0 ± 0.3	2023-10-30
11712700	22	2023-10-23 @ 7:00 am	2023-10-27 @ 7:00 am	1.2 ± 0.3	2023-10-30
11712699	23	2023-10-23 @ 7:00 am	2023-10-27 @ 7:00 am	1.4 ± 0.3	2023-10-30
11712697	24	2023-10-23 @ 7:00 am	2023-10-27 @ 7:00 am	1.3 ± 0.3	2023-10-30
11712696	25	2023-10-23 @ 7:00 am	2023-10-27 @ 7:00 am	1.2 ± 0.3	2023-10-30
11712693	26	2023-10-23 @ 7:00 am	2023-10-27 @ 7:00 am	1.5 ± 0.3	2023-10-30
11712690	27	2023-10-23 @ 7:00 am	2023-10-27 @ 7:00 am	1.6 ± 0.3	2023-10-30
11712686	28	2023-10-23 @ 7:00 am	2023-10-27 @ 7:00 am	1.1 ± 0.3	2023-10-30
11712691	29A	2023-10-23 @ 7:00 am	2023-10-27 @ 7:00 am	1.3 ± 0.3	2023-10-30
11712692	29B	2023-10-23 @ 7:00 am	2023-10-27 @ 7:00 am	1.4 ± 0.3	2023-10-30
11712658	3	2023-10-23 @ 8:00 am	2023-10-27 @ 7:00 am	1.3 ± 0.3	2023-10-30
11712610	31	2023-10-23 @ 9:00 am	2023-10-27 @ 8:00 am	1.6 ± 0.3	2023-10-30
11712613	32	2023-10-23 @ 9:00 am	2023-10-27 @ 8:00 am	1.3 ± 0.3	2023-10-30
11712611	33	2023-10-23 @ 9:00 am	2023-10-27 @ 8:00 am	1.5 ± 0.3	2023-10-30
11712617	34	2023-10-23 @ 9:00 am	2023-10-27 @ 8:00 am	1.4 ± 0.4	2023-10-30
11712619	35	2023-10-23 @ 9:00 am	2023-10-27 @ 8:00 am	1.2 ± 0.4	2023-10-30
11712616	36	2023-10-23 @ 9:00 am	2023-10-27 @ 8:00 am	1.6 ± 0.4	2023-10-30
11712629	37	2023-10-23 @ 9:00 am	2023-10-27 @ 8:00 am	1.3 ± 0.4	2023-10-30
11712620	38	2023-10-23 @ 9:00 am	2023-10-27 @ 8:00 am	1.5 ± 0.4	2023-10-30
11712621	39	2023-10-23 @ 9:00 am	2023-10-27 @ 8:00 am	1.3 ± 0.4	2023-10-30
11712660	4	2023-10-23 @ 8:00 am	2023-10-27 @ 7:00 am	1.4 ± 0.3	2023-10-30
11712614	40/41	2023-10-23 @ 9:00 am	2023-10-27 @ 8:00 am	1.6 ± 0.4	2023-10-30
11712623	42	2023-10-23 @ 9:00 am	2023-10-27 @ 8:00 am	1.5 ± 0.4	2023-10-30
11712625	43	2023-10-23 @ 9:00 am	2023-10-27 @ 8:00 am	1.5 ± 0.4	2023-10-30

Radon test result report for:**NEVADA COMMUNITY SCHOOL DISTRICT  
CENTRAL ELEMENTARY SCHOOL**

Kit #	Room Id	Started	Ended	pCi/L	Analyzed
11712626	44	2023-10-23 @ 9:00 am	2023-10-27 @ 8:00 am	2.2 ± 0.4	2023-10-30
11712627	45	2023-10-23 @ 9:00 am	2023-10-27 @ 8:00 am	1.6 ± 0.4	2023-10-30
11712628	46	2023-10-23 @ 9:00 am	2023-10-27 @ 8:00 am	1.8 ± 0.4	2023-10-30
11712676	49-LUNCH A	2023-10-23 @ 7:00 am	2023-10-27 @ 7:00 am	1.2 ± 0.4	2023-10-30
11712675	49-LUNCH B	2023-10-23 @ 7:00 am	2023-10-27 @ 7:00 am	1.4 ± 0.4	2023-10-30
11712670	49-STAGE	2023-10-23 @ 7:00 am	2023-10-27 @ 7:00 am	3.0 ± 0.4	2023-10-30
11712661	5	2023-10-23 @ 8:00 am	2023-10-27 @ 7:00 am	1.4 ± 0.3	2023-10-30
11712641	50-OFFICE	2023-10-23 @ 8:00 am	2023-10-27 @ 8:00 am	2.0 ± 0.3	2023-10-30
11712671	54	2023-10-23 @ 7:00 am	2023-10-27 @ 7:00 am	2.1 ± 0.3	2023-10-30
11712674	55	2023-10-23 @ 7:00 am	2023-10-27 @ 7:00 am	2.1 ± 0.3	2023-10-30
11712669	56	2023-10-23 @ 8:00 am	2023-10-27 @ 7:00 am	3.7 ± 0.4	2023-10-30
11712665	57	2023-10-23 @ 8:00 am	2023-10-27 @ 7:00 am	4.0 ± 0.5	2023-10-30
11712637	58	2023-10-23 @ 8:00 am	2023-10-27 @ 8:00 am	2.2 ± 0.4	2023-10-30
11712642	59	2023-10-23 @ 8:00 am	2023-10-27 @ 8:00 am	3.1 ± 0.4	2023-10-30
11712663	6	2023-10-23 @ 8:00 am	2023-10-27 @ 7:00 am	2.1 ± 0.4	2023-10-30
11712639	60	2023-10-23 @ 8:00 am	2023-10-27 @ 8:00 am	3.3 ± 0.4	2023-10-30
11712649	61	2023-10-23 @ 8:00 am	2023-10-27 @ 7:00 am	2.9 ± 0.4	2023-10-30
11712648	62	2023-10-23 @ 8:00 am	2023-10-27 @ 7:00 am	2.9 ± 0.4	2023-10-30
11712653	63	2023-10-23 @ 8:00 am	2023-10-27 @ 7:00 am	2.3 ± 0.3	2023-10-30
11712655	64	2023-10-23 @ 8:00 am	2023-10-27 @ 7:00 am	1.6 ± 0.3	2023-10-30
11712654	65	2023-10-23 @ 8:00 am	2023-10-27 @ 7:00 am	1.9 ± 0.3	2023-10-30
11712651	66	2023-10-23 @ 8:00 am	2023-10-27 @ 7:00 am	2.9 ± 0.4	2023-10-30
11712650	67	2023-10-23 @ 8:00 am	2023-10-27 @ 7:00 am	2.5 ± 0.4	2023-10-30
11712647	68	2023-10-23 @ 8:00 am	2023-10-27 @ 7:00 am	4.3 ± 0.5	2023-10-30
11712645	69	2023-10-23 @ 8:00 am	2023-10-27 @ 7:00 am	4.4 ± 0.5	2023-10-30
11712664	7	2023-10-23 @ 8:00 am	2023-10-27 @ 7:00 am	1.5 ± 0.4	2023-10-30
11712644	70	2023-10-23 @ 8:00 am	2023-10-27 @ 7:00 am	3.0 ± 0.4	2023-10-30
11712640	71	2023-10-23 @ 8:00 am	2023-10-27 @ 8:00 am	3.4 ± 0.4	2023-10-30
11712643	72	2023-10-23 @ 8:00 am	2023-10-27 @ 8:00 am	3.1 ± 0.4	2023-10-30
11712638	73	2023-10-23 @ 8:00 am	2023-10-27 @ 8:00 am	2.6 ± 0.4	2023-10-30
11712608	74	2023-10-23 @ 9:00 am	2023-10-27 @ 8:00 am	< 0.3	2023-10-30
11712609	75	2023-10-23 @ 9:00 am	2023-10-27 @ 8:00 am	< 0.3	2023-10-30
11712677	8	2023-10-23 @ 7:00 am	2023-10-27 @ 7:00 am	1.6 ± 0.3	2023-10-30
11712673	9	2023-10-23 @ 7:00 am	2023-10-27 @ 7:00 am	1.1 ± 0.3	2023-10-30
11712635	ART-51	2023-10-23 @ 8:00 am	2023-10-27 @ 8:00 am	2.6 ± 0.4	2023-10-30
11712685	CAFETERIA A	2023-10-23 @ 7:00 am	2023-10-27 @ 7:00 am	2.1 ± 0.3	2023-10-30
11712684	CAFETERIA B	2023-10-23 @ 7:00 am	2023-10-27 @ 7:00 am	2.6 ± 0.4	2023-10-30

Radon test result report for:**NEVADA COMMUNITY SCHOOL DISTRICT  
CENTRAL ELEMENTARY SCHOOL**

Kit #	Room Id	Started	Ended	pCi/L	Analyzed
11712630	COACH'S OFFICE	2023-10-23 @ 9:00 am	2023-10-27 @ 8:00 am	3.5 ± 0.4	2023-10-30
11712631	GYM A	2023-10-23 @ 8:00 am	2023-10-27 @ 8:00 am	3.7 ± 0.4	2023-10-30
11712632	GYM B	2023-10-23 @ 8:00 am	2023-10-27 @ 8:00 am	3.7 ± 0.4	2023-10-30
11712633	GYM C	2023-10-23 @ 8:00 am	2023-10-27 @ 8:00 am	4.3 ± 0.5	2023-10-30
11712634	GYM D	2023-10-23 @ 9:00 am	2023-10-27 @ 8:00 am	3.8 ± 0.4	2023-10-30
11712667	JANITOR'S OFFICE	2023-10-23 @ 8:00 am	2023-10-27 @ 7:00 am	1.6 ± 0.3	2023-10-30
11712668	KITCHEN OFFICE	2023-10-23 @ 8:00 am	2023-10-27 @ 7:00 am	3.1 ± 0.4	2023-10-30
11712662	LIBRARY A	2023-10-23 @ 8:00 am	2023-10-27 @ 7:00 am	1.9 ± 0.3	2023-10-30
11712666	LIBRARY B	2023-10-23 @ 8:00 am	2023-10-27 @ 7:00 am	1.9 ± 0.3	2023-10-30
11712622	NURSE OFFICE	2023-10-23 @ 9:00 am	2023-10-27 @ 8:00 am	< 0.3	2023-10-30
11712680	OFFICE A	2023-10-23 @ 7:00 am	2023-10-27 @ 7:00 am	0.9 ± 0.3	2023-10-30
11712652	OFFICE B	2023-10-23 @ 8:00 am	2023-10-27 @ 7:00 am	2.2 ± 0.3	2023-10-30
11712646	OFFICE C	2023-10-23 @ 8:00 am	2023-10-27 @ 7:00 am	4.3 ± 0.5	2023-10-30
11712612	STAFF MAIL ROOM	2023-10-23 @ 9:00 am	2023-10-27 @ 8:00 am	1.5 ± 0.3	2023-10-30
11712624	STUDENT STUDY ROOM	2023-10-23 @ 9:00 am	2023-10-27 @ 8:00 am	< 0.3	2023-10-30
11712636	SUPPLY OFFICE	2023-10-23 @ 8:00 am	2023-10-27 @ 8:00 am	2.6 ± 0.4	2023-10-30
11712618	TEACHER'S LOUNGE	2023-10-23 @ 9:00 am	2023-10-27 @ 8:00 am	1.4 ± 0.4	2023-10-30
11712679	TEACHER'S OFFICE	2023-10-23 @ 7:00 am	2023-10-27 @ 7:00 am	1.5 ± 0.3	2023-10-30

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December 5, 2023

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

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Radon test result report for:

**NEVADA COMMUNITY SCHOOL DISTRICT  
CENTRAL ELEMENTARY SCHOOL**

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Kit #	Room Id	Started	Ended	pCi/L	Analyzed
11712606	57	2023-11-27 @ 9:00 am	2023-12-01 @ 8:00 am	3.0 ± 0.3	2023-12-04
11712604	68	2023-11-27 @ 9:00 am	2023-12-01 @ 8:00 am	3.3 ± 0.3	2023-12-04
11712601	69	2023-11-27 @ 9:00 am	2023-12-01 @ 8:00 am	3.2 ± 0.3	2023-12-04
11712605	70	2023-11-27 @ 9:00 am	2023-12-01 @ 8:00 am	< 0.3	2023-12-04
11712603	71	2023-11-27 @ 9:00 am	2023-12-01 @ 8:00 am	2.9 ± 0.3	2023-12-04

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

## Appendix C: Staff Radon License

**Bureau of Radiological Health  
Radon Measurement Specialist Certification**

Austin Potthoff

Certification #: RNTST10075

Has complied with the requirements and is hereby authorized to perform radon testing pursuant to Iowa code 136B and 641 Iowa Administrative Code Chapter 43.

**Approved Testing Methods:**

AT-Alpha-Track Detection

CC-Activated Charcoal Adsorption

Expiration: June 30, 2024



CEU Due Date: June 30, 2024

Radiological Health | Iowa Department of Public Health | Lucas State Office Building | Des Moines, IA 50319

Fold here to mail – Cut here to display

Austin Potthoff  
785 SE WESTGATE DRIVE  
WAUKEE, IA 50263  
UNITED STA

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