



SCHOOL/LARGE BUILDING RADON TESTING – AMENDED REPORT

North Butler JR/SR High School
201 N 5th Street
Greene, Iowa 50636

Prepared for:

North Butler Community School District
201 N 5th Street
Greene, Iowa 50636

Prepared by:

Eocene Environmental Group, Inc.
600 4th Street, Suite 808
Sioux City, Iowa 51101

Report date:

March 10, 2026

School/Large Building Radon Testing – Amended Report

North Butler JR/SR High School
201 N 5th Street
Greene, Iowa 50636

Inspected/Prepared by:



Leon Johnson
Project Manager I
Radon Measurement Specialist: RNTST10189



Jacob Henry
Environmental Specialist I
Radon Measurement Specialist: RNTST10238

Reviewed by:



Tyler Silverthorn
Project Manager II
Radon Measurement Specialist: RNTST10187

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1.0 EXECUTIVE SUMMARY

Eocene Environmental Group, Inc. (Eocene), completed initial Radon Testing (Testing) on December 8-11, 2025, with follow-up testing completed on February 2-4, 2026, within the school located at 201 N 5th Street Greene, Iowa 50636 (Property). The purpose of the Testing was to provide a professional opinion of a structure's radon levels. Test results and conditions within the building are limited to the testing period identified in this report. This report is intended to assist North Butler Community School District (CSD) (Client) in facilitating radon mitigation activities, if needed. The original report is amended to now include the additional information from the follow-up testing to assist the Client in making a mitigation decision.

Radon Testing Results

Average radon concentrations were identified above the EPA action level of 4.0 pCi/L in twenty-three (23) of the thirty-four (34) testing locations within the Property including Rooms 113, 118, 119, 124, 133, 136, 139, 141, 142, 145, 147, 148, 150, 203, 204, 205, 206, 207, 208, 209, 210, 113A, and Principals office.

Average radon concentrations were identified below the EPA action level of 4.0 pCi/L but above 2.0 pCi/L in eight of the 34 testing locations within the Property. While not required, radon mitigation activities should be considered at these levels to lower the radon concentration in these areas. It should be noted that the World Health Organization (WHO) recommends limiting long-term exposures to less than 2.7 pCi/L. Retesting is required every 5 years or in conjunction with any sale of the building. See Table 2 for testing locations.

Average radon concentrations were identified below the 2.0 pCi/L in three of the 34 testing locations within the Property. Radon mitigation activities are not recommended at these levels. Retesting is required every 5 years or in conjunction with any sale or renovation of the building. See Table 3 for testing locations.

1.1 Recommendations

Eocene recommends that Rooms 113, 118, 119, 124, 133, 136, 139, 141, 142, 145, 147, 148, 150, 203, 204, 205, 206, 207, 208, 209, 210, 113A, and Principals office be mitigated in accordance with Federal, State, and Local regulations.

While not required, mitigation is recommended to be considered for testing locations identified in Table 2.

If mitigation is to be conducted, Eocene recommends utilizing an Iowa Certified Mitigation Specialist. A complete list of analytical laboratory results are provided in Appendix B.

This report is designed to aid the building owner, architect, construction manager, general contractor, and/or mitigation specialist in locating areas with elevated concentrations of radon. This report is not to be used as a mitigation specification, as it does not contain needed components to serve as such.

2.0 INTRODUCTION

A. Property Information

Location:

North Butler JR/SR High School
201 N 5th Street
Greene, Iowa 50636

Contact Person:

Bryan Boysen
North Butler CSD
201 N 5th Street
Greene, Iowa 50636

B. Personnel

QC/QA: Tyler Silverthorn	Radon Measurement Specialist	RNTST10187
Inspector: Leon Johnson	Radon Measurement Specialist	RNTST10189
Inspector: Jacob Henry	Radon Measurement Specialist	RNTST10238

C. Sampling Plan

The extended testing protocol was used for the Testing. One, short-term, QuickScreen, charcoal device was placed at each testing location in all occupied ground contact rooms. Devices were set for a minimum of 48 hours after closed building conditions were achieved. During follow-up testing additional devices were placed at the locations that were initially identified as having a radon concentration greater than or equal to 4.0 pCi/L. Also, additional devices were placed at testing locations that were not tested initially.

Four duplicate samples during the initial Testing, and Five duplicate samples were collected during the follow-up Testing which meets the minimum requirement of 10% duplicate samples required for sampling.

Two blank samples were collected to meet the minimum requirement of 5% blank samples required for sampling.

Three spike samples were collected to meet the minimum requirement of 3% spike samples required for sampling. Devices intended to be used as spike samples were submitted to Bowser-Morner to be spiked with a known amount of radon in their Radon Chamber.

Analytical results for blank and spike samples are located in complete analytical results found in Appendix B.

All devices were submitted and analyzed by an Iowa Certified Radon Laboratory (RNLAB10006).

D. Regulation Review

The testing was conducted in accordance with EPA, American National Standards Institute (ANSI), American Association of Radon Scientists and Technologists (AARST), and Iowa Administrative Code (IAC) 641, Chapter 43.

A mitigation decision to fix the building is recommended when the average radon concentration within a room is greater than or equal to 4.0 pCi/L. Mitigation should be considered when the average radon concentration within a room is greater than equal to 2.0 pCi/L and less than 4.0 pCi/L.

3.0 PROPERTY DESCRIPTION

The Property consists of one-story school building constructed in 2015 and 2020. The existing school building is located at 201 N 5th Street, Greene, Iowa 50636 (Property). Required closed building test conditions were observed at deployment and retrieval.

4.0 INSPECTION LIMITATIONS

Radon testing results identified in this report are limited to the time of the test conducted, for the test period that was conducted, and to the conditions that were present at the time the samples were collected, as indicated in this report.

This tested structure should be retested in the following cases:

1. If the structure was unoccupied during the test, the structure should be retested after occupancy;
2. If the structure is located in an area of karst or glacial moraine geology, it should be retested over a 12-month period;
3. If occupied by a new owner;
4. If the initial test was less than 4 pCi/L, retest every very five years after initial testing;
5. If a new addition is added;
6. If an alteration is made that could change the structure's ventilation patterns;
7. If major cracks or penetrations occur in the structure's foundation walls or slab;
8. If significant nearby construction blasting or earthquakes occur;
9. If changes are made or happen to an installed mitigation system; or
10. If a ground-contacted area is occupied that was not previously tested.

5.0 INSPECTION ACTIVITIES

5.1 Radon Testing

An Iowa certified Radon Measurement Specialist from Eocene collected 29 samples (plus four duplicates, two blanks, and three spike samples) on December 8-11, 2025, with additional testing conducted on February 2-4, 2026 which included 23 samples (five additional testing locations to the original 29 plus five duplicates). The samples were collected from occupied areas located throughout the Property. The tables below identify the areas that were tested and the associated average results in pCi/L. A complete list of analytical laboratory results are provided in Appendix B.

Table 1 – Radon Testing Results 4.0 pCi/L or Greater

Kit Numbers	Room	Average Result (pCi/L)	Mitigation Decision
RK157997 RK158009	113	30.5	Fix
RK158002 RK158041	118	6.9	Fix

Kit Numbers	Room	Average Result (pCi/L)	Mitigation Decision
RK155792 RK155793	119	6.3	Fix
RK155787 RK155847	124	15.1	Fix
RK157990 RK158058	133	9.4	Fix
RK157975 RK158034	136	6.3	Fix
RK157999 RK158051	139	6.8	Fix
RK157993 RK157051	141	6.9	Fix
RK155770 RK157995	142	14.6	Fix
RK155971 RK156996	147	5.9	Fix
RK158070 RK158027	150	11.6	Fix
RK157976 RK156966	203	12.3	Fix
RK158040 RK157024	204	12.1	Fix
RK158057 RK157060	206	9.1	Fix
RK157994 RK157048	207	7.3	Fix
RK158042 RK157044	208	6.4	Fix
RK157972 RK156974	209	7.1	Fix
RK158054 RK158055	210	7.7	Fix
RK158020 RK157989	113A	16.7	Fix
RK158043 RK157032	Principal	5.9	Fix
RK157973 RK157040	205	12.7	Fix
RK157052 RK157056	148	5.6	Fix
RK157036 RK157020	145	6.2	Fix

Average radon concentrations were identified above the EPA action level of 4.0 pCi/L in 23 of the 34 testing locations within the Property. Radon mitigation activities are recommended to lower the radon concentrations in Rooms 113, 118, 119, 124, 133, 136, 139, 141, 142, 145, 147, 148, 150, 203, 204, 205, 206, 207, 208, 209, 210, 113A, and Principals office.

Table 2 – Radon Testing Results Between 2.0 pCi/L and 4.0 pCi/L

Kit Numbers	Room	Average Result (pCi/L)	Mitigation Decision
RK158036 RK157998	105	2.3	Consider Fixing
RK157981	112	3.0	Consider Fixing
RK157984	181	2.1	Consider Fixing
RK155848	182	2.0	Consider Fixing
RK157980	183	3.7	Consider Fixing
RK158028	Superintendent	3.9	Consider Fixing
RK156988 RK156997	New Gym	3.8	Consider Fixing
RK157043 RK156990	Old Gym	3.1	Consider Fixing

Average radon concentrations were identified below the EPA action level of 4.0 pCi/L but above 2.0 pCi/L in eight of the 34 testing locations within the Property. While not required, radon mitigation activities should be considered at these levels to lower the radon concentration in these areas. It should be noted that the World Health Organization (WHO) recommends limiting long-term exposures to less than 2.7 pCi/L. If mitigation is not completed in these areas, retesting is required every 5 years or in conjunction with any sale or renovation of the building.

Table 3 – Radon Testing Results Below 2.0 pCi/L

Kit Numbers	Room	Average Result (pCi/L)	Mitigation Decision
RK157985	168	1.6	Retest in 5 Years
RK158025	167	1.7	Retest in 5 Years
RK156986 Rk156978	Weight Room	0.9	Retest in 5 Years

Average radon concentrations were identified below the 2.0 pCi/L in three of the 34 testing locations within the Property. Radon mitigation activities are not recommended at these levels. and retesting is required every 5 years or in conjunction with any sale or renovation of the building.

5.2 Quality Control

Quality Control samples were collected and then submitted and analyzed by the Alpha Energy laboratory. Quality control samples were made up of duplicates, blanks, and spikes. A total of nine duplicates were collected due to the extended testing protocol utilized. Two field blanks were collected and submitted to the lab. Three spike samples were sent to the Bowser-Morner Radon Chamber and subsequently submitted to the laboratory for analysis. All quality control samples were within acceptable limits and are included in the complete analytical results in Appendix B.

Radon is the second leading cause of lung cancer, after smoking. The U.S. Environmental Protection Agency (EPA) and the Surgeon General strongly recommend taking further action when the home's radon test results are 4.0 pCi/l (picocuries per liter of air) or greater. Radon levels less than 4.0 pCi/l still pose some risk and, in many cases, may be reduced. The annual national average indoor radon level is about 1.3 pCi/l while annual outdoor radon levels average 0.4 pCi/l. The higher a home's or structure's radon level, the greater the health risk. Smokers, former smokers, and individuals with a family history of lung cancer are at especially high risk. An Iowa credentialed mitigation specialist should be used to fix radon problems. Contact the Iowa Department of Health and Human Services Radon Program at (515) 281-4928 or at

www.HHS.iowa.gov/radon/fix to obtain information, including a list of State-credentialed radon mitigation specialists who can fix or can help you develop a plan for fixing the radon problem.

There can be uncertainty with any radon measurement due to statistical variations and other factors such as daily and seasonal variations in radon concentrations due to changes in the weather and operation of the dwelling as well as possible interference with the necessary test conditions that may or may not influence the results.

5.3 Testing Conditions

Table 4, located below, identifies indoor/outdoor conditions during the testing as compared to the annual averages for the area. Fluctuations in local weather during the testing may impact indoor radon concentrations.

Table 4a – Testing Conditions (12/08/25 – 12/11/25)

Outdoor Temperatures	Averages	Annual		During the Test
		54°		33°
Operating Conditions	Heating Conditions	66%	Compared To	100%
	Cooling Conditions	16%		0%
	Mixed Conditions	16%		0%
Prevailing Operating Conditions	Averages	Heating Conditions	Compared To	Heating Conditions
Condition Less Likely to Inhibit Characterization of a Radon Hazard		Air Distribution Systems Active		Air Distribution Systems Intermittent
			Indoor Temperature	68°

Table 4b – Testing Conditions (02/02/26 – 02/04/26)

Outdoor Temperatures	Averages	Annual		During the Test
		54°		14°
Operating Conditions	Heating Conditions	66%	Compared To	100%
	Cooling Conditions	16%		0%
	Mixed Conditions	16%		0%
Prevailing Operating Conditions	Averages	Heating Conditions	Compared To	Heating Conditions
Condition Less Likely to Inhibit Characterization of a Radon Hazard		Air Distribution Systems Active		Air Distribution Systems Intermittent
			Indoor Temperature	68°

6.0 CONCLUSIONS / RECOMMENDATIONS

The following conclusions and recommendations are summarized as follows:

- Eocene recommends that Rooms 113, 118, 119, 124, 133, 136, 139, 141, 142, 145, 147, 148, 150, 203, 204, 205, 206, 207, 208, 209, 210, 113A, and Principals office be mitigated in accordance with Federal, State, and Local regulations.

- While not required, mitigation is recommended to be considered for testing locations identified in Table 2.
- If mitigation is to be conducted, Eocene recommends utilizing an Iowa Certified Mitigation Specialist. A complete list of analytical laboratory results are provided in Appendix B.

This report is designed to aid the building owner, architect, construction manager, general contractor, and/or mitigation specialist in locating areas with elevated concentrations of radon. This report is not to be used as a mitigation specification, as it does not contain needed components to serve as such.

7.0 CONDITIONS & LIMITATIONS

Eocene has performed the tasks contained within this report in a thorough and professional manner consistent with commonly accepted standard industry practices. The results, findings, conclusions and recommendations expressed in this report are based on conditions observed during our survey of the Property. Eocene cannot guarantee, and does not warrant, that this report has identified all adverse environmental factors and/or conditions affecting the Property on the date of the inspection. Eocene cannot and will not warrant that the Inspection that was requested will satisfy the dictates of, or provide, a legal defense in connection with any environmental laws or regulations. It is the responsibility of the client to know and abide by all applicable laws, regulations, and standards. This report is not a bidding document or project specification as it does not contain the necessary components. This report has been prepared on behalf of and exclusively for use of North Butler CSD, for specific application to their project as discussed. Contractors, consultants or other third parties reviewing this report must draw their own conclusions regarding data contained within the report, further investigation or required mitigation.

Eocene Environmental Group, Inc. (Eocene) cannot guarantee the necessary conditions were maintained during the test period. There can be uncertainty with any radon measurement due to statistical variations and other factors such as changes in the weather and operation of the dwelling. While our radon measurement technicians and we make every effort to maintain the highest possible quality control and include checks and verification steps in our procedures, we make **NO WARRANTY OF ANY KIND, EXPRESSED OR IMPLIED**, for the consequences of erroneous test results. Eocene nor its employees or agents shall not be liable under any claim, charge or demand, whether in contract, tort, or otherwise, for any and all loss, cost, charge, claim, demand, fee, or expense of any nature or kind arising out of, connected with, resulting from, or sustained as a result of any radon test.

It is a violation of law for anyone other than the certified Radon Measurement Specialist signing it to alter this report. This report may be supplemented with additional information, so long as any addendum is signed by a Radon Measurement Specialist certified according to Iowa Administrative Code 641, Chapter 43.

APPENDIX A
Qualifications

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



Tyler Silverthorn

Certification #: RNTST10187

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:
CC-Activated Charcoal Adsorption
CR-Continuous Radon Monitor

Expiration: December 31, 2026



CEU Due Date: December 31,
2026

Radiological Health | Iowa Department of Health and Human Services | Lucas State Office Building | Des Moines, IA 50319

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Tyler Silverthorn
600 4TH STREET SUITE 808
SIOUX CITY, IA 51101

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



Jacob Henry

Certification #: RNTST10238

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:
CC-Activated Charcoal Adsorption
CR-Continuous Radon Monitor**

Expiration: May 31, 2026



CEU Due Date: May 31, 2027

Radiological Health | Iowa Department of Health and Human Services | Lucas State Office Building | Des Moines, IA 50319

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Jacob Henry
600 4TH STREET SUITE 808
SIOUX CITY, IA 51101

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APPENDIX B

Laboratory Reports / Chain of Custody Documentation



The global leader in radon measurement

REPORT NUMBER

9141960:2

REPORT DATE

01/08/2026

REPORT PAGE

1 of 6

PRINT DATE

01/08/2026

OWN ID

N/A

BY

Eocene Environmental Group

"Eocene Environmental Group, Inc"

Leon Johnson

5930 Grand Avenue

West Des Moines IA

RADON MONITORING REPORT

Description of the measurement

The measurement was performed with Activated Charcoal Adsorption by Alpha Energy Laboratories (NRPP ID: 101132 AL).

The detector(s) arrived to Alpha Energy Laboratories, Inc. **12/17/2025**. They were measured **12/17/2025**.

No person has signed the record card and verified that the instructions have been followed.

Property data and address

MEASURE SITE ADDRESS

20450821-North Butler CSD JR/SR High
201 N 5th Street
Greene IA 50636

BUILDING ID

JR/SR High School

TYPE OF BUILDING:

BUILDING YEAR:

VENTILATION TYPE:

Forced air

FOUNDATION TYPE:

Slab on grade

PURPOSE OF TEST:

Primary Screening

TEST CONDITIONS:

LICENSE NO - DEPLOYED BY:

LICENSE NO - RETRIEVED BY:

SCHOOL CODE (REQUIRED FOR

NJ):

Test results

DETECTOR	MEASUREMENT PERIOD	DESCRIPTION / LOCATION	FLOOR	RADON RESULT
RK158036 [QuickScreen]	12/08/2025 12:00 PM – 12/11/2025 12:00 PM	105		2.0 ± 0.9 pCi/L
RK157998 [QuickScreen]	12/08/2025 12:00 PM – 12/11/2025 12:00 PM	105		2.5 ± 0.9 pCi/L
RK157981 [QuickScreen]	12/08/2025 12:00 PM – 12/11/2025 12:00 PM	112		3.0 ± 0.8 pCi/L
RK157997 [QuickScreen]	12/08/2025 12:00 PM – 12/11/2025 12:00 PM	113		31.8 ± 1.0 pCi/L

Comment to the results

This report replaces 9141960:1. Reason: new or corrected measurement information (Room Number 163 to 168) has been received.

Sandra Fisher (Electronically signed)

Signature Radonova Laboratories Laboratory Measurement Specialist

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BY

Eocene Environmental Group

"Eocene Environmental Group, Inc"

Leon Johnson

5930 Grand Avenue

West Des Moines IA

RADON MONITORING REPORT

Description of the measurement

The measurement was performed with Activated Charcoal Adsorption by Alpha Energy Laboratories (NRPP ID: 101132 AL).

The detector(s) arrived to Alpha Energy Laboratories, Inc. **12/17/2025**.

They were measured **12/17/2025**.

No person has signed the record card and verified that the instructions have been followed.

Property data and address

MEASURE SITE ADDRESS

20450821-North Butler CSD JR/SR High

201 N 5th Street

Greene IA 50636

BUILDING ID

JR/SR High School

DETECTOR	MEASUREMENT PERIOD	DESCRIPTION / LOCATION	FLOOR	RADON RESULT
RK158002 [QuickScreen]	12/08/2025 12:00 PM – 12/11/2025 12:00 PM	118		7.6 ± 0.8 pCi/L
RK155792 [QuickScreen]	12/08/2025 12:00 PM – 12/11/2025 12:00 PM	119		5.9 ± 0.8 pCi/L
RK155793 [QuickScreen]	12/08/2025 12:00 PM – 12/11/2025 12:00 PM	119		6.6 ± 0.7 pCi/L
RK155787 [QuickScreen]	12/08/2025 12:00 PM – 12/11/2025 12:00 PM	124		21.2 ± 1.0 pCi/L
RK157990 [QuickScreen]	12/08/2025 12:00 PM – 12/11/2025 12:00 PM	133		8.5 ± 0.9 pCi/L
RK157975 [QuickScreen]	12/08/2025 12:00 PM – 12/11/2025 12:00 PM	136		6.5 ± 0.7 pCi/L
RK157999 [QuickScreen]	12/08/2025 12:00 PM – 12/11/2025 12:00 PM	139		7.7 ± 0.8 pCi/L
RK157993 [QuickScreen]	12/08/2025 12:00 PM – 12/11/2025 12:00 PM	141		6.9 ± 0.7 pCi/L
RK155770 [QuickScreen]	12/08/2025 12:00 PM – 12/11/2025 12:00 PM	142		15.2 ± 0.9 pCi/L

Comment to the results

This report replaces 9141960:1. Reason: new or corrected measurement information (Room Number 163 to 168) has been received.

Sandra Fisher (Electronically signed)

Signature Radonova Laboratories Laboratory Measurement Specialist

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OWN ID

N/A

BY

Eocene Environmental Group

"Eocene Environmental Group, Inc"

Leon Johnson

5930 Grand Avenue

West Des Moines IA

RADON MONITORING REPORT

Description of the measurement

The measurement was performed with Activated Charcoal Adsorption by Alpha Energy Laboratories (NRPP ID: 101132 AL).

The detector(s) arrived to Alpha Energy Laboratories, Inc. **12/17/2025**.

They were measured **12/17/2025**.

No person has signed the record card and verified that the instructions have been followed.

Property data and address

MEASURE SITE ADDRESS

20450821-North Butler CSD JR/SR High

201 N 5th Street

Greene IA 50636

BUILDING ID

JR/SR High School

DETECTOR	MEASUREMENT PERIOD	DESCRIPTION / LOCATION	FLOOR	RADON RESULT
RK157995 [QuickScreen]	12/08/2025 12:00 PM – 12/11/2025 12:00 PM	142		14.0 ± 0.8 pCi/L
RK157971 [QuickScreen]	12/08/2025 12:00 PM – 12/11/2025 12:00 PM	147		6.9 ± 0.7 pCi/L
RK158070 [QuickScreen]	12/08/2025 12:00 PM – 12/11/2025 12:00 PM	150		12.4 ± 0.9 pCi/L
RK157985 [QuickScreen]	12/08/2025 12:00 PM – 12/11/2025 12:00 PM	168		1.6 ± 0.7 pCi/L
RK158025 [QuickScreen]	12/08/2025 12:00 PM – 12/11/2025 12:00 PM	167		1.7 ± 0.7 pCi/L
RK157984 [QuickScreen]	12/08/2025 12:00 PM – 12/11/2025 12:00 PM	181		2.1 ± 0.6 pCi/L
RK155848 [QuickScreen]	12/08/2025 12:00 PM – 12/11/2025 12:00 PM	182		2.0 ± 0.7 pCi/L
RK157980 [QuickScreen]	12/08/2025 12:00 PM – 12/11/2025 12:00 PM	183		3.7 ± 0.6 pCi/L
RK157976 [QuickScreen]	12/08/2025 12:00 PM – 12/11/2025 12:00 PM	203		14.4 ± 1.0 pCi/L

Comment to the results

This report replaces 9141960:1. Reason: new or corrected measurement information (Room Number 163 to 168) has been received.

Sandra Fisher (Electronically signed)

Signature Radonova Laboratories Laboratory Measurement Specialist

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01/08/2026

OWN ID

N/A

BY

Eocene Environmental Group

"Eocene Environmental Group, Inc"

Leon Johnson

5930 Grand Avenue

West Des Moines IA

RADON MONITORING REPORT

Description of the measurement

The measurement was performed with Activated Charcoal Adsorption by Alpha Energy Laboratories (NRPP ID: 101132 AL).

The detector(s) arrived to Alpha Energy Laboratories, Inc. **12/17/2025**.

They were measured **12/17/2025**.

No person has signed the record card and verified that the instructions have been followed.

Property data and address

MEASURE SITE ADDRESS

20450821-North Butler CSD JR/SR High

201 N 5th Street

Greene IA 50636

BUILDING ID

JR/SR High School

DETECTOR	MEASUREMENT PERIOD	DESCRIPTION / LOCATION	FLOOR	RADON RESULT
RK158040 [QuickScreen]	12/08/2025 12:00 PM – 12/11/2025 12:00 PM	204		14.1 ± 1.0 pCi/L
RK158057 [QuickScreen]	12/08/2025 12:00 PM – 12/11/2025 12:00 PM	206		10.5 ± 0.8 pCi/L
RK157994 [QuickScreen]	12/08/2025 12:00 PM – 12/11/2025 12:00 PM	207		8.6 ± 0.9 pCi/L
RK158042 [QuickScreen]	12/08/2025 12:00 PM – 12/11/2025 12:00 PM	208		8.2 ± 0.8 pCi/L
RK157972 [QuickScreen]	12/08/2025 12:00 PM – 12/11/2025 12:00 PM	209		8.0 ± 0.8 pCi/L
RK158054 [QuickScreen]	12/08/2025 12:00 PM – 12/11/2025 12:00 PM	210		7.4 ± 0.7 pCi/L
RK158055 [QuickScreen]	12/08/2025 12:00 PM – 12/11/2025 12:00 PM	210		7.9 ± 0.8 pCi/L
RK158020 [QuickScreen]	12/08/2025 12:00 PM – 12/11/2025 12:00 PM	113A		6.7 ± 0.9 pCi/L
RK158039 [QuickScreen]	12/08/2025 12:00 PM – 12/11/2025 12:00 PM	BLANK		< 1.2 pCi/L

Comment to the results

This report replaces 9141960:1. Reason: new or corrected measurement information (Room Number 163 to 168) has been received.

Sandra Fisher (Electronically signed)

Signature Radonova Laboratories Laboratory Measurement Specialist

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REPORT NUMBER

9141960:2

REPORT PAGE

5 of 6

REPORT DATE

01/08/2026

PRINT DATE

01/08/2026

OWN ID

N/A

BY

Eocene Environmental Group

"Eocene Environmental Group, Inc"

Leon Johnson

5930 Grand Avenue

West Des Moines IA

RADON MONITORING REPORT

Description of the measurement

The measurement was performed with Activated Charcoal Adsorption by Alpha Energy Laboratories (NRPP ID: 101132 AL).

The detector(s) arrived to Alpha Energy Laboratories, Inc. **12/17/2025**. They were measured **12/17/2025**.

No person has signed the record card and verified that the instructions have been followed.

Property data and address

MEASURE SITE ADDRESS

20450821-North Butler CSD JR/SR High
201 N 5th Street
Greene IA 50636

BUILDING ID

JR/SR High School

DETECTOR	MEASUREMENT PERIOD	DESCRIPTION / LOCATION	FLOOR	RADON RESULT
RK158026 [QuickScreen]	12/08/2025 12:00 PM – 12/11/2025 12:00 PM	BLANK		< 1.7 pCi/L
RK158043 [QuickScreen]	12/08/2025 12:00 PM – 12/11/2025 12:00 PM	Principal		7.7 ± 0.7 pCi/L
RK158028 [QuickScreen]	12/08/2025 12:00 PM – 12/11/2025 12:00 PM	Superintendent		3.9 ± 0.8 pCi/L
RK157973 [QuickScreen]	12/08/2025 12:00 PM – 12/11/2025 12:00 PM	205		14.4 ± 0.8 pCi/L

Comment to the results

This report replaces 9141960:1. Reason: new or corrected measurement information (Room Number 163 to 168) has been received.

Sandra Fisher (Electronically signed)

Signature Radonova Laboratories Laboratory Measurement Specialist

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RADONOVA INC.

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LOMBARD, IL 60148
331.814.2200, help@radonova.com

Measurement method: Activated Charcoal Adsorption

For this method using the QuickScreen detector, the airtight container with activated charcoal is opened in the area to be sampled and radon in the air adsorbs onto the charcoal granules. At the end of the sampling period, the container is sealed and may be sent to a laboratory for analysis. The gamma decay from the radon adsorbed to the charcoal is counted on a scintillation detector and a calculation based on calibration information is used to calculate the radon concentration at the sample site.

Measured radon concentrations

For each detector, the measured value of the radon concentration is provided. For each value an uncertainty associated with the measurement to a 95% confidence level is also provided. For example a measurement result of 4.0 ± 0.5 pCi/L means that the radon concentration is most likely contained in the range 3.5 - 4.5 pCi/L. If the start or end date of the measurement has not been provided, the radon concentration cannot be calculated. In such cases, the total exposure in pCi*days/L will be reported. The reported measured values are related to the detectors as received by Radonova Laboratories. Detector deployment is not performed by Radonova Laboratories. Measurement information such as monitoring period (dates) and placement location is provided to Radonova Laboratories by the end user. The presented result applies only to the sample tested as received by the laboratory.

Codes on non-reportable detectors

DNR Not Reported – Detector Not Returned
ERR Not Reported – See comment

Measurement method versions used when the report was created

ANSI/AARST MAH-2023, Protocol for Conducting Measurements of Radon and Radon Decay Products in Homes

ANSI/AARST MA-MFLB-2023, Protocol for Measurements of Radon in Multifamily, School, Commercial and Mixed-Use Buildings

Radon measurements in Multifamily Buildings, Schools and Large Buildings

The United States Environmental Protection Agency (EPA) recommends remediation if the results of one long-term test or the average of two short-term tests conducted in an occupied room are 4.0 pCi/L or higher. The average yearly residential indoor radon level in the US is estimated to be around 1.3 pCi/L. Long-term tests are conducted for more than 90 days. Short-term tests are conducted between 2 and 90 days and should be performed under closed building conditions.

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More information about radon measurements and mitigation can be found in the ANSI/AARST publications:

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- ANSI/AARST Radon Mitigation Standards for Schools and Large Buildings.
- ANSI/AARST Radon Mitigation Standards for Multifamily Buildings.

For more information about the interpretation of your test results or about other radon related issues we suggest contacting your state radon office.

Signature on the report

With the signature on the report, the Measurement specialist at Radonova Laboratories certifies that the quality control procedures follows the guidance in accordance with the AARST/ANSI Measurement Protocols. Measurement information displayed in italics on report has been provided by the customer.

Certification no:

101132-AL, 107830-RT, RNLAB10006, NY ELAP ID: 11430

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REPORT NUMBER
9198957:2

REPORT DATE
02/18/2026

REPORT PAGE
1 of 5

PRINT DATE
02/18/2026

OWN ID
N/A

Eocene Environmental Group
Tyler Silverthorn
600 4th Street
Sioux City IA

BY
Eocene Environmental Group

RADON MONITORING REPORT

Description of the measurement

The measurement was performed with Activated Charcoal Adsorption by Alpha Energy Laboratories (NRPP ID: 101132 AL).

The detector(s) arrived to Alpha Energy Laboratories, Inc. **02/09/2026**. They were measured **02/09/2026**.

No person has signed the record card and verified that the instructions have been followed.

Property data and address

MEASURE SITE ADDRESS
North Butler CSD Highschool
201 N 5th Street
Greene IA 50636

BUILDING ID
Highschool

Test results

DETECTOR	MEASUREMENT PERIOD	DESCRIPTION / LOCATION	FLOOR	RADON RESULT
RK158009 [QuickScreen]	02/02/2026 11:00 AM – 02/04/2026 11:00 AM	113	First floor	29.1 ± 0.8 pCi/L
RK158041 [QuickScreen]	02/02/2026 11:00 AM – 02/04/2026 11:00 AM	118	First floor	6.1 ± 0.6 pCi/L
RK155847 [QuickScreen]	02/02/2026 11:00 AM – 02/04/2026 11:00 AM	124	First floor	9.0 ± 0.7 pCi/L
RK158058 [QuickScreen]	02/02/2026 11:00 AM – 02/04/2026 11:00 AM	133	First floor	10.3 ± 0.6 pCi/L
RK158034 [QuickScreen]	02/02/2026 11:00 AM – 02/04/2026 11:00 AM	136	First floor	6.0 ± 0.6 pCi/L
RK158051 [QuickScreen]	02/02/2026 11:00 AM – 02/04/2026 11:00 AM	139	First floor	5.9 ± 0.7 pCi/L
RK157051 [QuickScreen]	02/02/2026 11:00 AM – 02/04/2026 11:00 AM	141	First floor	6.9 ± 0.7 pCi/L

Comment to the results

This report replaces 9198957:1. Reason: Incorrect detector number RK158989 has been removed. Correct detector number RK157989 has been added.

Sandra Fisher (Electronically signed)

Signature Radonova Laboratories Laboratory Measurement Specialist

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BY

Eocene Environmental Group

Eocene Environmental Group

Tyler Silverthorn

600 4th Street

Sioux City IA

RADON MONITORING REPORT

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Property data and address

MEASURE SITE ADDRESS

North Butler CSD Highschool

201 N 5th Street

Greene IA 50636

BUILDING ID

Highschool

DETECTOR	MEASUREMENT PERIOD	DESCRIPTION / LOCATION	FLOOR	RADON RESULT
RK156996 [QuickScreen]	02/02/2026 11:00 AM – 02/04/2026 11:00 AM	147	First floor	4.8 ± 0.5 pCi/L
RK158027 [QuickScreen]	02/02/2026 11:00 AM – 02/04/2026 11:00 AM	150	First floor	10.8 ± 0.7 pCi/L
RK156966 [QuickScreen]	02/02/2026 11:00 AM – 02/04/2026 11:00 AM	203	First floor	10.1 ± 0.6 pCi/L
RK157024 [QuickScreen]	02/02/2026 11:00 AM – 02/04/2026 11:00 AM	204	First floor	10.0 ± 0.6 pCi/L
RK157060 [QuickScreen]	02/02/2026 11:00 AM – 02/04/2026 11:00 AM	206	First floor	7.7 ± 0.6 pCi/L
RK157048 [QuickScreen]	02/02/2026 11:00 AM – 02/04/2026 11:00 AM	207	First floor	5.9 ± 0.6 pCi/L
RK157044 [QuickScreen]	02/02/2026 11:00 AM – 02/04/2026 11:00 AM	208	First floor	4.5 ± 0.6 pCi/L
RK156974 [QuickScreen]	02/02/2026 11:00 AM – 02/04/2026 11:00 AM	209	First floor	6.1 ± 0.6 pCi/L
RK157032 [QuickScreen]	02/02/2026 12:00 PM – 02/04/2026 12:00 PM	Principal	First floor	4.0 ± 0.6 pCi/L

Comment to the results

This report replaces 9198957:1. Reason: Incorrect detector number RK158989 has been removed. Correct detector number RK157989 has been added.

Sandra Fisher (Electronically signed)

Signature Radonova Laboratories Laboratory Measurement Specialist

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REPORT NUMBER
9198957:2

REPORT DATE
02/18/2026

REPORT PAGE
3 of 5

PRINT DATE
02/18/2026

OWN ID
N/A

BY
Eocene Environmental Group

Eocene Environmental Group
Tyler Silverthorn
600 4th Street
Sioux City IA

RADON MONITORING REPORT

Description of the measurement

The measurement was performed with Activated Charcoal Adsorption by Alpha Energy Laboratories (NRPP ID: 101132 AL).

The detector(s) arrived to Alpha Energy Laboratories, Inc. **02/09/2026**. They were measured **02/09/2026**.

No person has signed the record card and verified that the instructions have been followed.

Property data and address

MEASURE SITE ADDRESS
North Butler CSD Highschool
201 N 5th Street
Greene IA 50636

BUILDING ID
Highschool

DETECTOR	MEASUREMENT PERIOD	DESCRIPTION / LOCATION	FLOOR	RADON RESULT
RK157040 [QuickScreen]	02/02/2026 11:00 AM – 02/04/2026 11:00 AM	205	First floor	10.9 ± 0.6 pCi/L
RK156988 [QuickScreen]	02/02/2026 11:00 AM – 02/04/2026 11:00 AM	New gym	First floor	3.7 ± 0.6 pCi/L
RK156997 [QuickScreen]	02/02/2026 11:00 AM – 02/04/2026 11:00 AM	New gym	First floor	3.8 ± 0.5 pCi/L
RK156986 [QuickScreen]	02/02/2026 11:00 AM – 02/04/2026 11:00 AM	Weight room	First floor	0.8 ± 0.6 pCi/L
RK156978 [QuickScreen]	02/02/2026 11:00 AM – 02/04/2026 11:00 AM	Weight room	First floor	< 0.9 pCi/L
RK157052 [QuickScreen]	02/02/2026 11:00 AM – 02/04/2026 11:00 AM	148	First floor	5.8 ± 0.6 pCi/L
RK157056 [QuickScreen]	02/02/2026 11:00 AM – 02/04/2026 11:00 AM	148	First floor	5.3 ± 0.6 pCi/L
RK157036 [QuickScreen]	02/02/2026 11:00 AM – 02/04/2026 11:00 AM	145	First floor	6.9 ± 0.6 pCi/L
RK157020 [QuickScreen]	02/02/2026 11:00 AM – 02/04/2026 11:00 AM	145	First floor	5.5 ± 0.6 pCi/L

Comment to the results

This report replaces 9198957:1. Reason: Incorrect detector number RK158989 has been removed. Correct detector number RK157989 has been added.

Sandra Fisher (Electronically signed)

Signature Radonova Laboratories Laboratory Measurement Specialist

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REPORT NUMBER

9198957:2

REPORT PAGE

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REPORT DATE

02/18/2026

PRINT DATE

02/18/2026

OWN ID

N/A

BY

Eocene Environmental Group

Eocene Environmental Group

Tyler Silverthorn

600 4th Street

Sioux City IA

RADON MONITORING REPORT

Description of the measurement

The measurement was performed with Activated Charcoal Adsorption by Alpha Energy Laboratories (NRPP ID: 101132 AL).

The detector(s) arrived to Alpha Energy Laboratories, Inc. **02/09/2026**.

They were measured **02/09/2026**.

No person has signed the record card and verified that the instructions have been followed.

Property data and address

MEASURE SITE ADDRESS

North Butler CSD Highschool

201 N 5th Street

Greene IA 50636

BUILDING ID

Highschool

DETECTOR	MEASUREMENT PERIOD	DESCRIPTION / LOCATION	FLOOR	RADON RESULT
RK157043 [QuickScreen]	02/02/2026 11:00 AM – 02/04/2026 11:00 AM	Old gym	First floor	3.5 ± 0.6 pCi/L
RK156990 [QuickScreen]	02/02/2026 11:00 AM – 02/04/2026 11:00 AM	Old gym	First floor	2.6 ± 0.5 pCi/L
RK157989 [QuickScreen]	02/02/2026 11:00 AM – 02/04/2026 11:00 AM	113A	First floor	26.6 ± 0.8 pCi/L

Comment to the results

This report replaces 9198957:1. Reason: Incorrect detector number RK158989 has been removed. Correct detector number RK157989 has been added.

Sandra Fisher (Electronically signed)

Signature Radonova Laboratories Laboratory Measurement Specialist

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LOMBARD, IL 60148

331.814.2200, help@radonova.com

Measurement method: Activated Charcoal Adsorption

For this method using the QuickScreen detector, the airtight container with activated charcoal is opened in the area to be sampled and radon in the air adsorbs onto the charcoal granules. At the end of the sampling period, the container is sealed and may be sent to a laboratory for analysis. The gamma decay from the radon adsorbed to the charcoal is counted on a scintillation detector and a calculation based on calibration information is used to calculate the radon concentration at the sample site.

Measured radon concentrations

For each detector, the measured value of the radon concentration is provided. For each value an uncertainty associated with the measurement to a 95% confidence level is also provided. For example a measurement result of 4.0 ± 0.5 pCi/L means that the radon concentration is most likely contained in the range 3.5 - 4.5 pCi/L. If the start or end date of the measurement has not been provided, the radon concentration cannot be calculated. In such cases, the total exposure in pCi*days/L will be reported. The reported measured values are related to the detectors as received by Radonova Laboratories. Detector deployment is not performed by Radonova Laboratories. Measurement information such as monitoring period (dates) and placement location is provided to Radonova Laboratories by the end user. The presented result applies only to the sample tested as received by the laboratory.

Codes on non-reportable detectors

DNR Not Reported – Detector Not Returned
ERR Not Reported – See comment

Measurement method versions used when the report was created

ANSI/AARST MAH-2023, Protocol for Conducting Measurements of Radon and Radon Decay Products in Homes

ANSI/AARST MA-MFLB-2023, Protocol for Measurements of Radon in Multifamily, School, Commercial and Mixed-Use Buildings

Radon measurements in Multifamily Buildings, Schools and Large Buildings

The United States Environmental Protection Agency (EPA) recommends remediation if the results of one long-term test or the average of two short-term tests conducted in an occupied room are 4.0 pCi/L or higher. The average yearly residential indoor radon level in the US is estimated to be around 1.3 pCi/L. Long-term tests are conducted for more than 90 days. Short-term tests are conducted between 2 and 90 days and should be performed under closed building conditions.

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- ANSI/AARST Protocol for Conducting Measurements of Radon and Radon-Decay Products in Schools and Large Buildings.
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- ANSI/AARST Radon Mitigation Standards for Schools and Large Buildings.
- ANSI/AARST Radon Mitigation Standards for Multifamily Buildings.

For more information about the interpretation of your test results or about other radon related issues we suggest contacting your state radon office.

Signature on the report

With the signature on the report, the Measurement specialist at Radonova Laboratories certifies that the quality control procedures follows the guidance in accordance with the AARST/ANSI Measurement Protocols. Measurement information displayed in italics on report has been provided by the customer.

Certification no:

101132-AL, 107830-RT, RNLAB10006, NY ELAP ID: 11430

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331.814.2200, help@radonova.com

"Eocene Environmental Group, Inc"

Leon Johnson

5930 Grand Avenue

West Des Moines IA

RADON MONITORING REPORT

Description of the measurement

The measurement was performed with Activated Charcoal Adsorption by Alpha Energy Laboratories (NRPP ID: 101132 AL).

The detector(s) arrived to Alpha Energy Laboratories, Inc. **12/09/2025**. They were measured **12/09/2025**.

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Property data and address

MEASURE SITE ADDRESS

20450821-North Butler CSD JR/SR High
201 N 5th Street
Greene IA 50636

BUILDING ID

JR/SR High School

TYPE OF BUILDING:

BUILDING YEAR:

VENTILATION TYPE:

Forced air

FOUNDATION TYPE:

Slab on grade

PURPOSE OF TEST:

Primary Screening

TEST CONDITIONS:

LICENSE NO - DEPLOYED BY:

LICENSE NO - RETRIEVED BY:

SCHOOL CODE (REQUIRED FOR

NJ):

Test results

DETECTOR	MEASUREMENT PERIOD	DESCRIPTION / LOCATION	FLOOR	RADON RESULT
RK158062 [QuickScreen]	12/06/2025 08:44 AM – 12/08/2025 08:44 AM			23.9 ± 0.6 pCi/L
RK158063 [QuickScreen]	12/06/2025 08:44 AM – 12/08/2025 08:44 AM			23.1 ± 0.6 pCi/L
RK158064 [QuickScreen]	12/06/2025 08:44 AM – 12/08/2025 08:44 AM			25.8 ± 0.6 pCi/L

Comment to the results

Sandra Fisher (Electronically signed)

Signature Radonova Laboratories Laboratory Measurement Specialist

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For more information about the interpretation of your test results or about other radon related issues we suggest contacting your state radon office.

Signature on the report

With the signature on the report, the Measurement specialist at Radonova Laboratories certifies that the quality control procedures follows the guidance in accordance with the AARST/ANSI Measurement Protocols. Measurement information displayed in italics on report has been provided by the customer.

Certification no:

101132-AL, 107830-RT, RNLAB10006, NY ELAP ID: 11430

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APPENDIX C

Photographs

Project Name

SCHOOL/LARGE BUILDING RADON TESTING

North Butler CSD
Date: 12/8/2025
Photographer:
Leon Johnson

Description:
General Visual
Conditions of Testing
Locations.



Photo #1

North Butler CSD
Date: 12/8/2025
Photographer:
Leon Johnson

Description:
General Visual
Conditions of Testing
Locations.



Photo #2

Project Name

SCHOOL/LARGE BUILDING RADON TESTING

North Butler CSD
Date: 12/8/2025
Photographer:
Leon Johnson

Description:
General Visual
Conditions of Testing
Locations.



Photo #3

North Butler CSD
Date: 12/8/2025
Photographer:
Leon Johnson

Description:
General Visual
Conditions of Testing
Locations.



Photo #4

Project Name

SCHOOL/LARGE BUILDING RADON TESTING

North Butler CSD
Date: 12/8/2025
Photographer:
Leon Johnson

Description:
General Visual
Conditions of Testing
Locations.



Photo #5

APPENDIX D

Sample Location Map

