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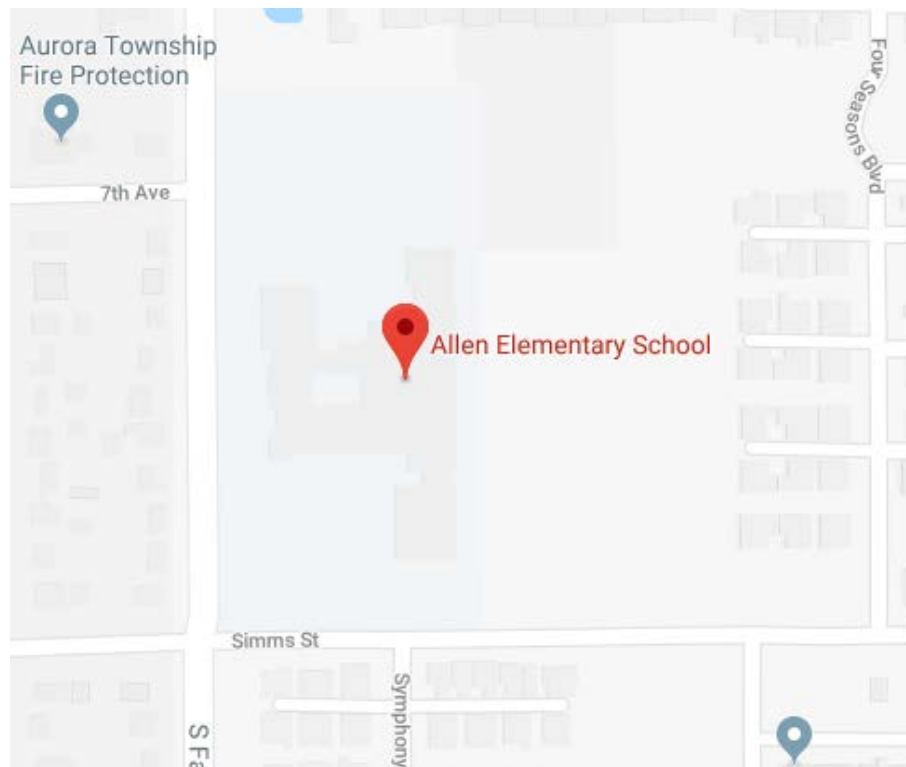
## Radon Measurement Survey Report

Site:

**Allen School**  
**700 S. Farnsworth Avenue**  
**Aurora, Illinois 60505**

Survey Dates: April 30, 2018 thru May 3, 2018

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Prepared For:

**East Aurora School District 131**  
**417 Fifth Street**  
**Aurora, Illinois 60505**

Carnow Conibear Project No. A146000137



## Radon Measurement Survey Report

Site:

**Allen School  
700 S. Farnsworth Avenue  
Aurora, Illinois 60505**

Surveyed by:

A handwritten signature in black ink that reads "Nicole Bennett".

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Nicole Bennett  
Radon Measurement Professional

Report by:

A handwritten signature in black ink that reads "Nicole Bennett".

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Nicole Bennett  
Radon Measurement Professional

Reviewed by:

A handwritten signature in blue ink that reads "Derek Lantry".

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Derek Lantry  
Director, Technical Services

Report Issued:

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## **1.0 EXECUTIVE SUMMARY**

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Carnow, Conibear, & Assoc., Ltd. (Carnow Conibear) was contracted by East Aurora School District 131 to perform a radon measurement survey at the Allen School located at 700 S. Farnsworth Avenue in Aurora, Illinois. The survey was initiated on April 30, 2018 and completed on May 3, 2018 by Nicole Bennett, an Illinois Emergency Management Agency (IEMA) licensed Radon Measurement Professional (License No. RNI2016213). The scope of work included short term (two to four day) radon measurements in frequently occupied rooms with substantial ground contact. The radon sampling was performed following IEMA and the United States Environmental Protection Agency (USEPA) testing protocols for commercial and school radon measurements, the radon device manufacturer's recommendations, and Carnow Conibear's Quality Assurance Plan.

A total of eighty-three (83) radon test devices were deployed including seventy-two (72) single devices, seven (7) duplicates, and four (4) blank. Activated radon charcoal devices manufactured by Air Chek Inc. were utilized during the radon survey. The activated charcoal devices are passive devices containing activated carbon to measure radon. Testing was initiated on April 30, 2018 and completed on May 3, 2018.

Radon measurement results ranged from less than (<) 0.3 to 1.3 PicoCuries per liter (pCi/L). The radon measurement results indicate areas tested were below the EPA and IEMA recommended action level of 4.0 pCi/L during the time of the test. The average indoor radon concentrations are 1.3 pCi/L nationwide. The average outdoor radon concentration is 0.4 pCi/L.

Based on the radon measurement results Carnow Conibear recommends routine follow-up radon measurement survey every three (3) years, preferably at different seasonal times of the year. Additional radon testing is recommended if significant changes are made to the building's structural or mechanical components.

## **2.0 BACKGROUND**

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Radon is a naturally occurring, radioactive, colorless, odorless, tasteless gas produced from the decay of uranium and radium found in most soil and rock. Natural soils and rock such as granites, shales, and corals, contaminated soils from uranium processing mills, contaminated building materials, and groundwater water supplies directly from wells are a few common sources of radon. Radon can be found at some level in all indoor and outdoor air. Unlike most airborne contaminants radon is chemically inert, or chemically inactive. As a result, it is not chemically bound or attached to other materials and can move easily through porous materials or void space.

Typically, most radon gas is generated from the surrounding soil or bedrock, pulled through the soil or rock by air pressure differentials and enters the structure. However, radon gas can come from water, outside air, or contaminated building materials. The strength of the radon source has the biggest impact on indoor radon concentrations. The route of entry (i.e. through holes in the foundation), the building's ventilation rate, foundation type and differences in soils beneath the building can affect the indoor radon concentrations.

The primary health effect attributed to radon exposure is lung cancer. The World Health Organization (WHO), the National Academy of Sciences, the US Department of Health and Human Services, and the EPA classify radon as known human carcinogen. The EPA states radon is the largest source of radiation exposure and risk to the general public. When radon and products of radon decay are inhaled, decay can occur while in contact with the lung prior to being expelled. Because radon is chemically inert, most inhaled radon is rapidly exhaled. However, the inhaled decay products are readily deposited in the lungs, release energy in the form of radiation causing lung tissue damage and consequently increase the risk of lung cancer.

Radon concentrations in air are commonly expressed in picoCuries per liter (pCi/L) in the United States. An EPA national residential radon survey completed in 1991, determined the average indoor radon level is 1.3 pCi/L and the average outdoor level is about 0.4 pCi/L. The National Academy of Sciences' (NAS) latest report on radon, the Biological Effects of Ionizing Radiation (BEIR) VI Report (1999) estimates radon in indoor air causes about 21,000 lung cancer deaths each year in the United States. The EPA states that any level of radon carries some risk, there are no safe levels, and has established an action level of 4.0pCi/L.

## **3.0 SCOPE OF WORK**

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Carnow, Conibear was contracted by East Aurora School District 131 to perform a radon survey at the Allen School located at 700 S. Farnsworth Avenue in Aurora, Illinois.

The scope of work included short term radon measurements in frequently occupied rooms with substantial ground contact. The duration of short term measurements can range from two (2) to four (4) days. Prior to placement of the radon measurement devices a Quality Assurance Project Plan (QAPP) was developed, a non-interference agreement document was signed, and general observations were performed to verify test conditions, identify device placement locations, and determine structural and mechanical building components. The QAPP was created to document and describe the necessary quality assurance procedures, quality control activities, and provide a clear, concise, and complete plan for the radon measurement operations. The non-interference agreement is required by the IEMA to document an understanding of the required closed building testing conditions. Observations of test conditions verified closed building conditions were maintained at a minimum of twelve (12) hours prior to testing and throughout the measurement period. Closed building conditions are necessary for short term radon measurements in order to stabilize the radon and radon decay product concentrations and increase the reproducibility of the measurement. Closed building conditions require windows and exterior doors on all levels be kept closed (except for normal entry and exit) during the measurement period. Closed building conditions also require the normal operation of heating, ventilating, and air conditions systems.

Radon test devices were deployed in seventy-two (72) locations. In addition, seven (7) duplicates, and four (4) blanks, were utilized to measure precision and bias, and ensure quality data. Radon test devices were documented in a permanent log noting the address of the building measured, a diagram of the test area noting the exact locations of all measurement devices deployed, exact start and stop times of the measurement period, a description of the device used and serial number, and the name and IEMA license number of the Radon Measurement Professional. At the end of the measurement period the radon test devices were retrieved, resealed, and mailed to the laboratory for analysis.

The radon measurement results are reported in picoCurie per liter. A picoCurie per liter is 2.22 atomic radon disintegrations per minute for each liter of air. The results of the radon measurements are interpreted to determine the need for additional testing and assess the quality and confidence of the measurement data. Typically, follow-up measurements will be recommended in every room with results greater than 4.0 pCi/L. The recommendation to mitigate elevated levels of radon shall not be based on the initial measurement results.

## 4.0 METHODOLOGY

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The radon testing was performed following requirements set forth by the IEMA, USEPA, and Carnow Conibear's Quality Assurance Plan. The radon measurement survey consisted of several phases. The initial phase consisted of preliminary testing protocol, including an explanation of services, instructions to comply with closed building conditions, the development of the Quality Assurance Project Plan, and determination of the testing period. Next, general observations of the building were performed to verify test conditions, identify device placement locations, and determine structural and mechanical building components.

The measurement phase included the radon testing device placement and retrieval. Activated radon charcoal devices manufactured by Air Chek Inc. were utilized during this radon survey. The activated charcoal devices are passive devices containing activated carbon to measure radon. Radon test devices were placed in such a way to limit unintentional interference from building occupants. The measurement devices were placed at least three feet from doors, windows to the outside, at least one foot from exterior walls, at least four feet from heat sources, out of the direct flow of ventilation ducts and sunlight, and suspended in the general breathing zone. Duplicate tests were conducted for a minimum of 10% of the total radon test devices deployed to measure precision. Field blanks were submitted for a minimum of 5% of the total number of radon test devices deployed to measure background gamma radiation. Spike tests were not submitted for this survey but are submitted for a minimum of three per 100 radon test devices or a minimum of three per year to measure laboratory accuracy. A total of eighty-three (83) radon test devices were deployed including seventy-two (72) single devices, seven (7) duplicates, and four (4) blanks. At the end of the measurement period the radon measurement devices were retrieved, resealed, and shipped overnight to Air Chek Inc. for analysis. Air Chek Inc. calculates the radon concentration after measuring the gamma activity by the radon decay products produced from the random decay of the collected radon. The final phase consisted of interpreting the results and an assessment of the quality and confidence of the measurement data.

## 5.0 SUMMARY OF RESULTS

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Table 1.0 Radon Measurement Device Results identify all the radon measurement devices deployed and the reported radon results. The radon measurement results are reported in picoCurie per liter (pCi/L).

Radon measurement results were below 4.0pCi/L. The radon measurement results indicate areas tested were below the EPA and IEMA recommended action level of 4.0 pCi/L during the time of the test. No radon mitigation systems were observed in the building. The following testing abnormality was noted.

- The devices (serial #9043121 and #9043122) placed simultaneously in Room 156 were damaged in transit to the laboratory and not able to be analyzed.



**Table 1.0 Radon Measurement Device Results**

**Allen School -  
 700 S. Farnsworth Avenue  
 Aurora, Illinois 60505**

Device Location	Device Serial #	Start Date	Start Time	Stop Date	Stop Time	Result (pCi/L)	Comments
Main Office 101	9043101	4/30/2018	3:06 PM	5/3/2018	3:01 PM	< 0.3	
Office 103	9043102	4/30/2018	3:08 PM	5/3/2018	3:02 PM	< 0.3	
Copy Room	9043103	4/30/2018	3:10 PM	5/3/2018	3:02 PM	< 0.3	
Principal's Office 161	9043104	4/30/2018	3:11 PM	5/3/2018	3:03 PM	< 0.3	
Office 166	9043105	4/30/2018	3:13 PM	5/3/2018	3:03 PM	< 0.3	
Office 162	9043106	4/30/2018	3:14 PM	5/3/2018	3:03 PM	0.6	
Nurse's Office 163	9043107	4/30/2018	3:16 PM	5/3/2018	3:05 PM	< 0.3	
Classroom 164	9043108	4/30/2018	3:18 PM	5/3/2018	3:07 PM	< 0.3	
Classroom 164	9043109	4/30/2018	3:18 PM	5/3/2018	3:07 PM	< 0.3	Duplicate RPD = 0.0%
Literacy Closet	9043110	4/30/2018	3:20 PM	5/3/2018	3:09 PM	< 0.3	
Classroom 158	9043111	4/30/2018	3:21 PM	5/3/2018	3:09 PM	0.6	
Classroom 165	9043112	4/30/2018	3:22 PM	5/3/2018	3:10 PM	< 0.3	
Gymnasium 166	9043113	4/30/2018	3:26 PM	5/3/2018	3:12 PM	1.2	
Gymnasium 166	9043114	4/30/2018	3:27 PM	5/3/2018	3:12 PM	1.1	
Gymnasium Room 166C	9043115	4/30/2018	3:29 PM	5/3/2018	3:13 PM	0.7	
Gymnasium Storage 167A	9043116	4/30/2018	3:30 PM	5/3/2018	3:14 PM	0.8	
Stage 166A	9043117	4/30/2018	3:31 PM	5/3/2018	3:15 PM	< 0.3	
Storage 166B	9043118	4/30/2018	3:32 PM	5/3/2018	3:15 PM	0.7	
Classroom 169	9043119	4/30/2018	3:38 PM	5/3/2018	3:16 PM	< 0.3	
Classroom 170	9043120	4/30/2018	3:40 PM	5/3/2018	3:17 PM	< 0.3	
Room 156	9043121	4/30/2018	3:42 PM	5/3/2018	3:19 PM	-	Devices damaged in transit to laboratory.

**Table 1.0 Radon Measurement Device Results**

**Allen School -  
 700 S. Farnsworth Avenue  
 Aurora, Illinois 60505**

Device Location	Device Serial #	Start Date	Start Time	Stop Date	Stop Time	Result (pCi/L)	Comments
Room 156	9043122	4/30/2018	3:42 PM	5/3/2018	3:19 PM	-	Duplicate Devices damaged in transit to laboratory.
Room 155	9043123	4/30/2018	3:44 PM	5/3/2018	3:20 PM	< 0.3	
Room 155	9043124	4/30/2018	3:45 PM	5/3/2018	3:21 PM	< 0.3	
Classroom 152	9043125	4/30/2018	3:47 PM	5/3/2018	3:25 PM	0.6	
Classroom 151	9043126	4/30/2018	3:49 PM	5/3/2018	3:25 PM	0.8	
Classroom 150	9043127	4/30/2018	3:50 PM	5/3/2018	3:25 PM	< 0.3	
Classroom 148	9043128	4/30/2018	3:52 PM	5/3/2018	3:26 PM	< 0.3	
Classroom 149	9043129	4/30/2018	3:54 PM	5/3/2018	3:28 PM	< 0.3	
Classroom 149	9043130	4/30/2018	3:54 PM	5/3/2018	3:28 PM	0.6	Duplicate RPD = 28.6%
Room 147	9043131	4/30/2018	3:56 PM	5/3/2018	3:28 PM	0.8	
Room 146	9043132	4/30/2018	3:58 PM	5/3/2018	3:29 PM	< 0.3	
Room 145A	9043133	4/30/2018	3:59 PM	5/3/2018	3:32 PM	< 0.3	
Classroom 145	9043134	4/30/2018	4:01 PM	5/3/2018	3:33 PM	< 0.3	
Cafeteria 144	9043135	4/30/2018	4:03 PM	5/3/2018	3:35 PM	< 0.3	
Cafeteria 144	9043136	4/30/2018	4:05 PM	5/3/2018	3:35 PM	< 0.3	
Room 142	9043137	4/30/2018	4:06 PM	5/3/2018	3:38 PM	< 0.3	
Classroom 141	9043138	4/30/2018	4:08 PM	5/3/2018	3:38 PM	< 0.3	
Classroom 138	9043139	4/30/2018	4:09 PM	5/3/2018	3:33 PM	< 0.3	
Classroom 137	9043140	4/30/2018	4:10 PM	5/3/2018	3:34 PM	0.8	
Classroom 136	9043141	4/30/2018	4:12 PM	5/3/2018	3:41 PM	< 0.3	
Classroom 135	9043142	4/30/2018	4:14 PM	5/3/2018	3:41 PM	0.6	
Classroom 135	9043143	4/30/2018	4:14 PM	5/3/2018	3:42 PM	0.6	Duplicate RPD = 0.0%
Computer Lab 139	9043144	4/30/2018	4:16 PM	5/3/2018	3:42 PM	< 0.3	

**Table 1.0 Radon Measurement Device Results**

**Allen School -  
 700 S. Farnsworth Avenue  
 Aurora, Illinois 60505**

Device Location	Device Serial #	Start Date	Start Time	Stop Date	Stop Time	Result (pCi/L)	Comments
Library 140	9043145	4/30/2018	4:17 PM	5/3/2018	3:42 PM	< 0.3	
Classroom 134	9043146	4/30/2018	4:18 PM	5/3/2018	3:49 PM	0.8	
Classroom 133	9043147	4/30/2018	4:19 PM	5/3/2018	3:49 PM	1.3	
Classroom 132	9043148	4/30/2018	4:20 PM	5/3/2018	3:48 PM	0.7	
Classroom 131	9043149	4/30/2018	4:22 PM	5/3/2018	3:48 PM	0.6	
Storage 117A	9043150	4/30/2018	4:23 PM	5/3/2018	3:47 PM	< 0.3	
Classroom 117	9043151	4/30/2018	4:25 PM	5/3/2018	3:48 PM	< 0.3	
Classroom 130	9043152	4/30/2018	4:26 PM	5/3/2018	3:49 PM	< 0.3	
Server Room 118B	9043153	4/30/2018	4:28 PM	5/3/2018	3:49 PM	< 0.3	
Classroom 118	9043154	4/30/2018	4:29 PM	5/3/2018	3:55 PM	< 0.3	
Classroom 118	9043155	4/30/2018	4:29 PM	5/3/2018	3:55 PM	< 0.3	Duplicate RPD = 0.0%
Classroom 119	9043156	4/30/2018	4:31 PM	5/3/2018	3:56 PM	0.5	
Classroom 120	9043157	4/30/2018	4:32 PM	5/3/2018	3:56 PM	< 0.3	
Classroom 121	9043158	4/30/2018	4:34 PM	5/3/2018	3:54 PM	< 0.3	
Classroom 122	9043159	4/30/2018	4:35 PM	5/3/2018	3:54 PM	< 0.3	
Classroom 123	9043160	4/30/2018	4:36 PM	5/3/2018	3:56 PM	< 0.3	
Classroom 124	9043161	4/30/2018	4:38 PM	5/3/2018	3:57 PM	< 0.3	
Classroom 125	9043162	4/30/2018	4:40 PM	5/3/2018	3:55 PM	< 0.3	
Classroom 115	9043163	4/30/2018	4:42 PM	5/3/2018	4:02 PM	< 0.3	
Classroom 114	9043164	4/30/2018	4:43 PM	5/3/2018	4:02 PM	< 0.3	
Classroom 113	9043165	4/30/2018	4:45 PM	5/3/2018	4:02 PM	< 0.3	
Classroom 112	9043166	4/30/2018	4:47 PM	5/3/2018	4:01 PM	0.7	
Classroom 110	9043167	4/30/2018	4:50 PM	5/3/2018	4:01 PM	0.9	
Classroom 111	9043168	4/30/2018	4:51 PM	5/3/2018	4:02 PM	< 0.3	
Room 154	9043169	4/30/2018	4:54 PM	5/3/2018	4:11 PM	< 0.3	

**Table 1.0 Radon Measurement Device Results**

**Allen School -  
700 S. Farnsworth Avenue  
Aurora, Illinois 60505**

Device Location	Device Serial #	Start Date	Start Time	Stop Date	Stop Time	Result (pCi/L)	Comments
Room 154	9043170	4/30/2018	4:54 PM	5/3/2018	4:10 PM	< 0.3	Duplicate RPD = 0.0%
Room 153	9043171	4/30/2018	4:56 PM	5/3/2018	4:11 PM	< 0.3	
Classroom 107	9043172	4/30/2018	4:58 PM	5/3/2018	4:10 PM	< 0.3	
Classroom 108	9043173	4/30/2018	5:00 PM	5/3/2018	4:12 PM	< 0.3	
Classroom 106	9043174	4/30/2018	5:01 PM	5/3/2018	4:12 PM	< 0.3	
Classroom 105	9043175	4/30/2018	5:03 PM	5/3/2018	4:12 PM	< 0.3	
Classroom 104	9043176	4/30/2018	5:04 PM	5/3/2018	4:11 PM	< 0.3	
Classroom 102	9043177	4/30/2018	5:07 PM	5/3/2018	4:10 PM	< 0.3	
Classroom 102	9043178	4/30/2018	5:07 PM	5/3/2018	4:10 PM	< 0.3	Duplicate RPD = 0.0%
Teacher's Lounge 100	9043179	4/30/2018	5:09 PM	5/3/2018	4:11 PM	< 0.3	
Hallway	9043180	4/30/2018	5:10 PM	5/3/2018	4:13 PM	< 0.3	Blank
Hallway	9043182	4/30/2018	5:12 PM	5/3/2018	4:13 PM	< 0.3	Blank
Hallway	9043183	4/30/2018	5:13 PM	5/3/2018	4:13 PM	< 0.3	Blank

RPD - Relative Percent Difference = difference divided by the average of simultaneous results times 100. Results less than 4.0 pCi/L shall agree with a RPD of less than 67 percent. Results greater than 4.0 pCi/L shall agree with a RPD of less than 36 percent.

The EPA and IEMA recommended radon action level is 4.0 pCi/L.

## 6.0 CONCLUSIONS

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Carnow, Conibear, & Assoc., Ltd. (Carnow Conibear) was contracted by East Aurora School District 131 to perform a radon survey at the Allen School located at 700 S. Farnsworth Avenue in Aurora, Illinois. The survey was initiated on April 30, 2018 and completed on May 3, 2018 by Nicole Bennett, an Illinois Emergency Management Agency (IEMA) licensed Radon Measurement Professional (License No. RNI2016213). The scope of work included short term (two to four day) radon measurements in frequently occupied rooms with substantial ground contact. The radon survey was performed in following the IEMA and the USEPA testing protocols for commercial and school radon measurements, the radon device manufacturer's recommendations, and the Carnow Conibear Quality Assurance Plan.

Radon measurement results ranged from less than (<) 0.3 to 1.3 pCi/L. The radon measurement results indicate radon concentrations for areas tested were below the EPA and IEMA recommended action level of 4.0 pCi/L during the time of the test. The average indoor radon concentrations are 1.3 pCi/L nationwide. The average outdoor radon concentration is 0.4 pCi/L.

Based on the radon measurement results Carnow Conibear recommends the following:

- A routine follow-up radon measurement survey every three (3) years, preferably at different seasonal times of the year. Follow-up radon testing is also recommended in locations with invalid test results.
- Additional radon testing if significant changes are made to the building's structural or mechanical components.

## **7.0 LIMITATIONS AND CONDITIONS**

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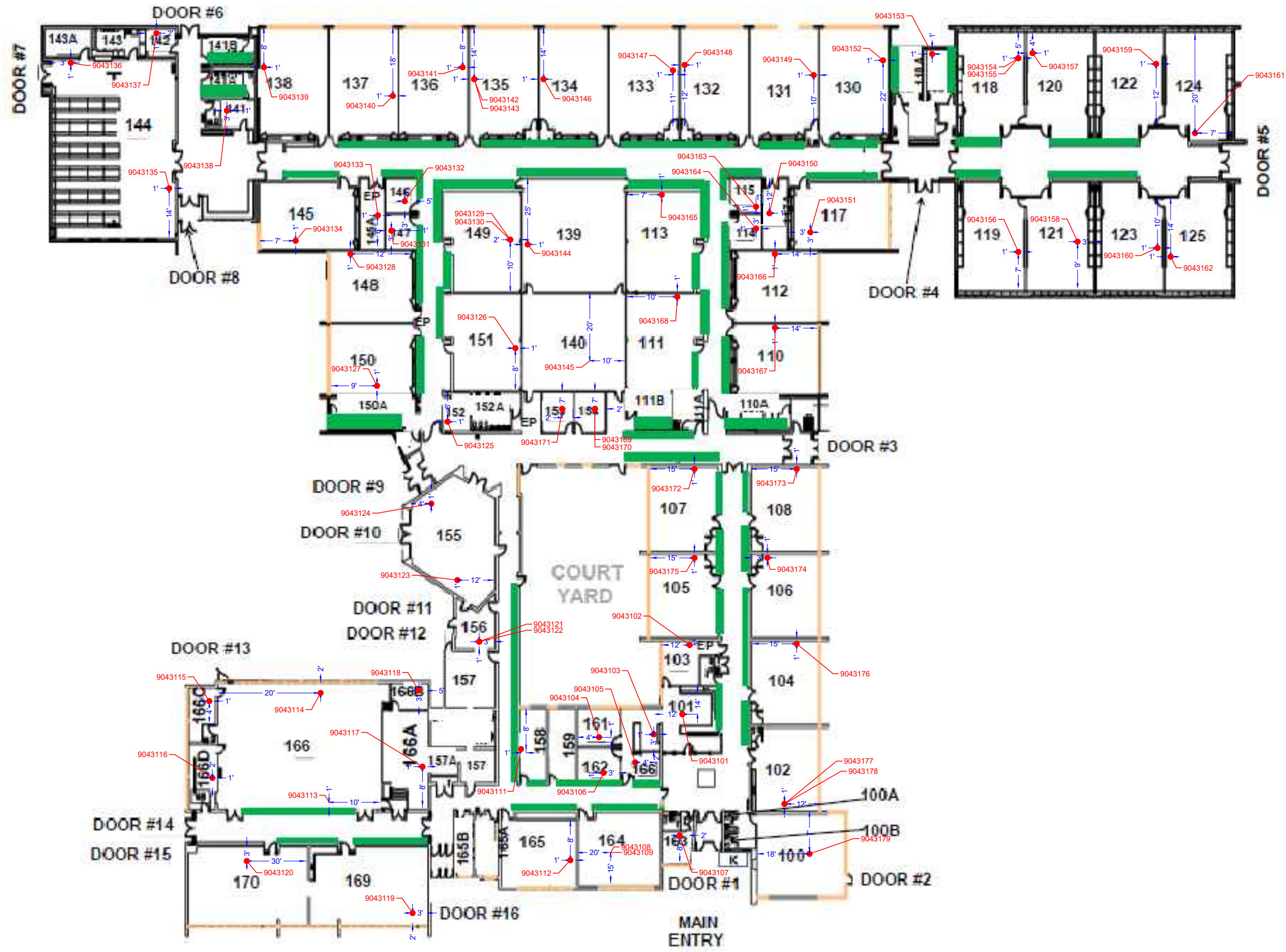
The information contained in this report was prepared for the exclusive use and reliance of East Aurora School District 131 and Carnow Conibear. This information is based on the specific parameters of the scope of work for this project and the regulations in force at the time of the report.

Carnow Conibear has applied prevailing industry standards and reasonable judgment and effort within the scope of work, while conducting the radon measurement survey. The standards, judgment, and effort used by Carnow Conibear personnel to investigate, assess, and determine the presence of potential environmental hazards and liabilities associated with the radon survey at the Allen School, Aurora, Illinois are consistent with requirements outlined in federal and state guidelines. Carnow Conibear makes no warranty, express or implied, that the findings and interpretations in this report are a complete representation of the environmental hazards and liabilities, associated with the Allen School, Aurora, Illinois.

# APPENDIX A

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## Floor Plans – Radon Sampling Locations



1 RADON SAMPLE LOCATIONS  
GROUND FLOOR PLAN

NOT TO SCALE

TESTED BY:  
Derek Lantry  
IEMA License #: RNI2004213

DRAWN BY:  
J. Kalingsan

CHECKED BY:  
D. Lantry

CLIENT:  
East Aurora Public School District 131  
417 Fifth Street  
Aurora, Illinois, 60505

LEGEND:

- Approximate location of activated charcoal radon measurement device
- 4482418 Radon measurement device serial number

0 10' 20'

SHEET TITLE:  
Radon Testing Locations at  
Olney C Allen School  
700 South Farnsworth Avenue  
Aurora, Illinois 60505

Carnow, Conibear & Assoc., Ltd.  
Environmental Consulting Services  
600 W. Van Buren St., Suite 500, Chicago, IL 60607  
t: 312.782.4486 f: 312.782.5145  
www.ccailt.com

CCA PROJECT NO.  
A146000137

SURVEY DATE:  
4/30/2018 to 5/3/2018

SHEET NO.  
Rn-1

**CARNOW  
CONIBEAR**

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## APPENDIX B

Laboratory Analysis Report

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Radon test result report for:

**ALLEN ELEMENTARY SCHOOL****700 SOUTH FARNSWORTH AVENUE, AURORA**

Kit #	Room Id	Started	Ended	pCi/L	Analyzed
9043136	CAFETERIA 144	2018-04-30 @ 4:00 pm	2018-05-03 @ 4:00 pm	< 0.3	2018-05-08
9043135	CAFETERIA 144	2018-04-30 @ 4:00 pm	2018-05-03 @ 4:00 pm	< 0.3	2018-05-08
9043177	CLASSROOM 102	2018-04-30 @ 5:00 pm	2018-05-03 @ 4:00 pm	< 0.3	2018-05-08
9043178	CLASSROOM 102	2018-04-30 @ 5:00 pm	2018-05-03 @ 4:00 pm	< 0.3	2018-05-08
9043176	CLASSROOM 104	2018-04-30 @ 5:00 pm	2018-05-03 @ 4:00 pm	< 0.3	2018-05-08
9043175	CLASSROOM 105	2018-04-30 @ 5:00 pm	2018-05-03 @ 4:00 pm	< 0.3	2018-05-08
9043174	CLASSROOM 106	2018-04-30 @ 5:00 pm	2018-05-03 @ 4:00 pm	< 0.3	2018-05-08
9043172	CLASSROOM 107	2018-04-30 @ 5:00 pm	2018-05-03 @ 4:00 pm	< 0.3	2018-05-08
9043173	CLASSROOM 108	2018-04-30 @ 5:00 pm	2018-05-03 @ 4:00 pm	< 0.3	2018-05-08
9043167	CLASSROOM 110	2018-04-30 @ 5:00 pm	2018-05-03 @ 4:00 pm	0.9 ± 0.4	2018-05-08
9043168	CLASSROOM 111	2018-04-30 @ 5:00 pm	2018-05-03 @ 4:00 pm	< 0.3	2018-05-08
9043166	CLASSROOM 112	2018-04-30 @ 5:00 pm	2018-05-03 @ 4:00 pm	0.7 ± 0.3	2018-05-08
9043165	CLASSROOM 113	2018-04-30 @ 5:00 pm	2018-05-03 @ 4:00 pm	< 0.3	2018-05-08
9043164	CLASSROOM 114	2018-04-30 @ 5:00 pm	2018-05-03 @ 4:00 pm	< 0.3	2018-05-08
9043163	CLASSROOM 115	2018-04-30 @ 5:00 pm	2018-05-03 @ 4:00 pm	< 0.3	2018-05-08
9043151	CLASSROOM 117	2018-04-30 @ 4:00 pm	2018-05-03 @ 4:00 pm	< 0.3	2018-05-08
9043155	CLASSROOM 118	2018-04-30 @ 4:00 pm	2018-05-03 @ 4:00 pm	< 0.3	2018-05-08
9043154	CLASSROOM 118	2018-04-30 @ 4:00 pm	2018-05-03 @ 4:00 pm	< 0.3	2018-05-08
9043156	CLASSROOM 119	2018-04-30 @ 5:00 pm	2018-05-03 @ 4:00 pm	0.5 ± 0.4	2018-05-08
9043157	CLASSROOM 120	2018-04-30 @ 5:00 pm	2018-05-03 @ 4:00 pm	< 0.3	2018-05-08
9043158	CLASSROOM 121	2018-04-30 @ 5:00 pm	2018-05-03 @ 4:00 pm	< 0.3	2018-05-08
9043159	CLASSROOM 122	2018-04-30 @ 5:00 pm	2018-05-03 @ 4:00 pm	< 0.3	2018-05-08
9043160	CLASSROOM 123	2018-04-30 @ 5:00 pm	2018-05-03 @ 4:00 pm	< 0.3	2018-05-08
9043161	CLASSROOM 124	2018-04-30 @ 5:00 pm	2018-05-03 @ 4:00 pm	< 0.3	2018-05-08
9043162	CLASSROOM 125	2018-04-30 @ 5:00 pm	2018-05-03 @ 4:00 pm	< 0.3	2018-05-08
9043152	CLASSROOM 130	2018-04-30 @ 4:00 pm	2018-05-03 @ 4:00 pm	< 0.3	2018-05-08
9043149	CLASSROOM 131	2018-04-30 @ 4:00 pm	2018-05-03 @ 4:00 pm	0.6 ± 0.3	2018-05-08
9043148	CLASSROOM 132	2018-04-30 @ 4:00 pm	2018-05-03 @ 4:00 pm	0.7 ± 0.4	2018-05-08
9043147	CLASSROOM 133	2018-04-30 @ 4:00 pm	2018-05-03 @ 4:00 pm	1.3 ± 0.4	2018-05-08
9043146	CLASSROOM 134	2018-04-30 @ 4:00 pm	2018-05-03 @ 4:00 pm	0.8 ± 0.4	2018-05-08
9043142	CLASSROOM 135	2018-04-30 @ 4:00 pm	2018-05-03 @ 4:00 pm	0.6 ± 0.3	2018-05-08
9043143	CLASSROOM 135	2018-04-30 @ 4:00 pm	2018-05-03 @ 4:00 pm	0.6 ± 0.4	2018-05-08
9043141	CLASSROOM 136	2018-04-30 @ 4:00 pm	2018-05-03 @ 4:00 pm	< 0.3	2018-05-08
9043140	CLASSROOM 137	2018-04-30 @ 4:00 pm	2018-05-03 @ 4:00 pm	0.8 ± 0.3	2018-05-08
9043139	CLASSROOM 138	2018-04-30 @ 4:00 pm	2018-05-03 @ 4:00 pm	< 0.3	2018-05-08
9043138	CLASSROOM 141	2018-04-30 @ 4:00 pm	2018-05-03 @ 4:00 pm	< 0.3	2018-05-08
9043134	CLASSROOM 145	2018-04-30 @ 4:00 pm	2018-05-03 @ 4:00 pm	< 0.3	2018-05-08

Radon test result report for:**ALLEN ELEMENTARY SCHOOL****700 SOUTH FARNSWORTH AVENUE, AURORA**

Kit #	Room Id	Started	Ended	pCi/L	Analyzed
9043128	CLASSROOM 148	2018-04-30 @ 4:00 pm	2018-05-03 @ 3:00 pm	< 0.3	2018-05-08
9043129	CLASSROOM 149	2018-04-30 @ 4:00 pm	2018-05-03 @ 3:00 pm	< 0.3	2018-05-08
9043130	CLASSROOM 149	2018-04-30 @ 4:00 pm	2018-05-03 @ 3:00 pm	0.6 ± 0.3	2018-05-08
9043127	CLASSROOM 150	2018-04-30 @ 4:00 pm	2018-05-03 @ 3:00 pm	< 0.3	2018-05-08
9043126	CLASSROOM 151	2018-04-30 @ 4:00 pm	2018-05-03 @ 3:00 pm	0.8 ± 0.3	2018-05-08
9043125	CLASSROOM 152	2018-04-30 @ 4:00 pm	2018-05-03 @ 3:00 pm	0.6 ± 0.3	2018-05-08
9043111	CLASSROOM 158	2018-04-30 @ 3:00 pm	2018-05-03 @ 3:00 pm	0.6 ± 0.4	2018-05-08
9043108	CLASSROOM 164	2018-04-30 @ 3:00 pm	2018-05-03 @ 3:00 pm	< 0.3	2018-05-08
9043109	CLASSROOM 164	2018-04-30 @ 3:00 pm	2018-05-03 @ 3:00 pm	< 0.3	2018-05-08
9043112	CLASSROOM 165	2018-04-30 @ 3:00 pm	2018-05-03 @ 3:00 pm	< 0.3	2018-05-08
9043119	CLASSROOM 169	2018-04-30 @ 4:00 pm	2018-05-03 @ 3:00 pm	< 0.3	2018-05-08
9043120	CLASSROOM 170	2018-04-30 @ 4:00 pm	2018-05-03 @ 3:00 pm	< 0.3	2018-05-08
9043144	COMPUTER LAB 139	2018-04-30 @ 4:00 pm	2018-05-03 @ 4:00 pm	< 0.3	2018-05-08
9043103	COPY ROOM	2018-04-30 @ 3:00 pm	2018-05-03 @ 3:00 pm	< 0.3	2018-05-08
9043114	GYMNASIUM 166	2018-04-30 @ 3:00 pm	2018-05-03 @ 3:00 pm	1.1 ± 0.4	2018-05-08
9043113	GYMNASIUM 166	2018-04-30 @ 3:00 pm	2018-05-03 @ 3:00 pm	1.2 ± 0.4	2018-05-08
9043115	GYMNASIUM ROOM 166C	2018-04-30 @ 3:00 pm	2018-05-03 @ 3:00 pm	0.7 ± 0.4	2018-05-08
9043116	GYMNASIUM STORAGE 167A	2018-04-30 @ 4:00 pm	2018-05-03 @ 3:00 pm	0.8 ± 0.3	2018-05-08
9043183	HALLWAY	2018-04-30 @ 5:00 pm	2018-05-03 @ 4:00 pm	< 0.3	2018-05-08
9043180	HALLWAY	2018-04-30 @ 5:00 pm	2018-05-03 @ 4:00 pm	< 0.3	2018-05-08
9043181	HALLWAY	2018-04-30 @ 5:00 pm	2018-05-03 @ 4:00 pm		2018-05-08
9043182	HALLWAY	2018-04-30 @ 5:00 pm	2018-05-03 @ 4:00 pm	< 0.3	2018-05-08
9043145	LIBRARY 140	2018-04-30 @ 4:00 pm	2018-05-03 @ 4:00 pm	< 0.3	2018-05-08
9043110	LITERACY CLOSET	2018-04-30 @ 3:00 pm	2018-05-03 @ 3:00 pm	< 0.3	2018-05-08
9043101	MAIN OFFICE 101	2018-04-30 @ 3:00 pm	2018-05-03 @ 3:00 pm	< 0.3	2018-05-08
9043107	NURSE&APOS;S OFFICE 163	2018-04-30 @ 3:00 pm	2018-05-03 @ 3:00 pm	< 0.3	2018-05-08
9043102	OFFICE 103	2018-04-30 @ 3:00 pm	2018-05-03 @ 3:00 pm	< 0.3	2018-05-08
9043106	OFFICE 162	2018-04-30 @ 3:00 pm	2018-05-03 @ 3:00 pm	0.6 ± 0.4	2018-05-08
9043105	OFFICE 166	2018-04-30 @ 3:00 pm	2018-05-03 @ 3:00 pm	< 0.3	2018-05-08
9043104	PRINCIPAL&APOS;S OFFICE 161	2018-04-30 @ 3:00 pm	2018-05-03 @ 3:00 pm	< 0.3	2018-05-08
9043137	ROOM 142	2018-04-30 @ 4:00 pm	2018-05-03 @ 4:00 pm	< 0.3	2018-05-08
9043133	ROOM 145A	2018-04-30 @ 4:00 pm	2018-05-03 @ 4:00 pm	< 0.3	2018-05-08
9043132	ROOM 146	2018-04-30 @ 4:00 pm	2018-05-03 @ 3:00 pm	< 0.3	2018-05-08
9043131	ROOM 147	2018-04-30 @ 4:00 pm	2018-05-03 @ 3:00 pm	0.8 ± 0.4	2018-05-08
9043171	ROOM 153	2018-04-30 @ 5:00 pm	2018-05-03 @ 4:00 pm	< 0.3	2018-05-08
9043169	ROOM 154	2018-04-30 @ 5:00 pm	2018-05-03 @ 4:00 pm	< 0.3	2018-05-08
9043170	ROOM 154	2018-04-30 @ 5:00 pm	2018-05-03 @ 4:00 pm	< 0.3	2018-05-08

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June 28, 2018

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

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Radon test result report for:

**ALLEN ELEMENTARY SCHOOL  
700 SOUTH FARNSWORTH AVENUE, AURORA**

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<b>Kit #</b>	<b>Room Id</b>	<b>Started</b>	<b>Ended</b>	<b>pCi/L</b>	<b>Analyzed</b>
9043123	ROOM 155	2018-04-30 @ 4:00 pm	2018-05-03 @ 3:00 pm	< 0.3	2018-05-08
9043124	ROOM 155	2018-04-30 @ 4:00 pm	2018-05-03 @ 3:00 pm	< 0.3	2018-05-08
9043153	SERVER ROOM 118B	2018-04-30 @ 4:00 pm	2018-05-03 @ 4:00 pm	< 0.3	2018-05-08
9043117	STAGE 166A	2018-04-30 @ 4:00 pm	2018-05-03 @ 3:00 pm	< 0.3	2018-05-08
9043150	STORAGE 117A	2018-04-30 @ 4:00 pm	2018-05-03 @ 4:00 pm	< 0.3	2018-05-08
9043118	STORAGE 166B	2018-04-30 @ 4:00 pm	2018-05-03 @ 3:00 pm	0.7 ± 0.3	2018-05-08
9043179	TEACHER&APOS;S LOUNGE 100	2018-04-30 @ 5:00 pm	2018-05-03 @ 4:00 pm	< 0.3	2018-05-08

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

## APPENDIX C

Radon Measurement Professional License

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*Bruce Rauner*  
Governor

State of Illinois  
IEMA Division of Nuclear Safety

*James K. Joseph*  
Director

Pursuant to the Radon Industry Licensing Act, 420 ILCS 44 et seq. and 32 Illinois Administrative Code 422, Licensing of Radon Detection and Mitigation Services, and in reliance on statements and representations heretofore made by the licensee, a license is hereby issued.

This is to certify that **Nicole Bennett**

License Number **RNI2016213**

has met the requirements for **Radon Measurement Professional**

Issued - Expires **05/18/2016 - 05/31/2021**

Limited to **Radon measurements of residential real estate, home environment, school and commercial buildings only.**



161391001

*Patrick I. Daniels*

Patrick I. Daniels, Radon Program