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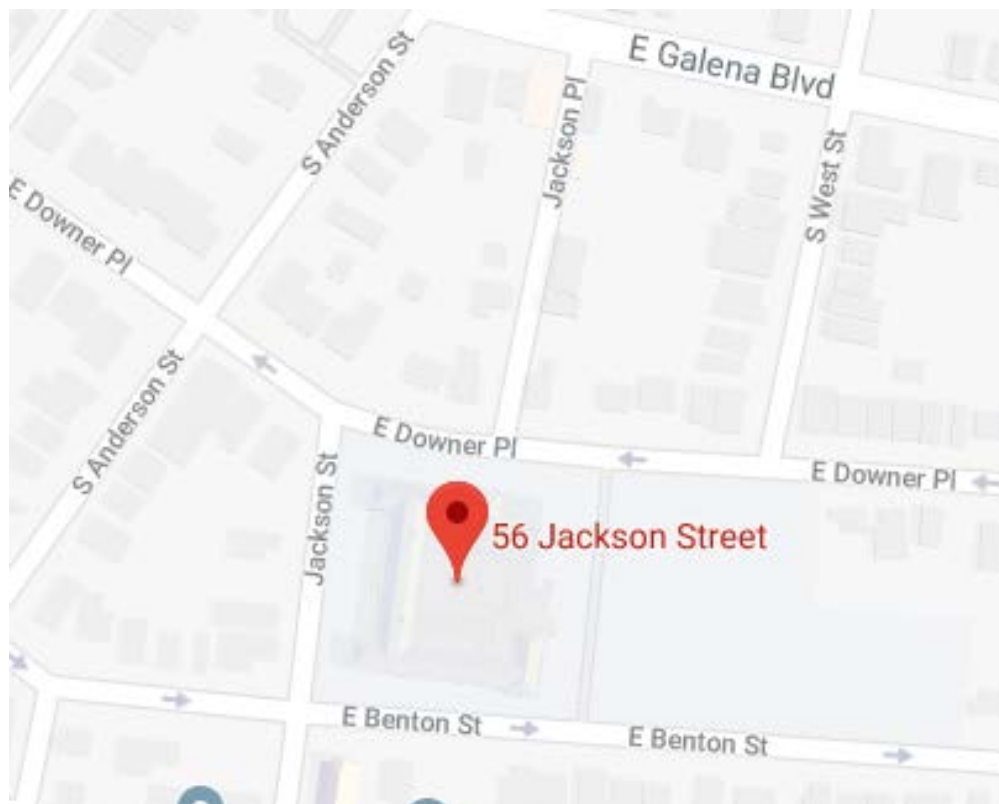
## Radon Measurement Survey Report

Site:

**Waldo Middle School  
56 Jackson Street  
Aurora, Illinois 60505**

Survey Dates: May 8, 2018 thru May 10, 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:

**Waldo Middle School  
56 Jackson Street  
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: July 3, 2018

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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 Waldo Middle School located at 56 Jackson Street in Aurora, Illinois. The survey was initiated on May 8, 2018 and completed on May 10, 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 thirty-eight (38) radon test devices were deployed including thirty-three (33) single devices, three (3) duplicates, and two (2) blanks. 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 May 8, 2018 and completed on May 10, 2018.

Radon measurement results ranged from less than (<) 0.3 to 21.7 PicoCuries per liter (pCi/L). The radon measurement results indicate areas tested exceeded the EPA recommended radon 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:

- Follow-up radon testing in locations exceeding the EPA and IEMA recommended action level of 4.0 pCi/L. Per IEMA, a recommendation to mitigate elevated levels of radon shall not be based on initial measurement results.
- Routine follow-up radon measurement surveys every two (2) years at different seasonal times following IEMA and the USEPA testing protocols and the radon device manufacturer's recommendations.
- Additional testing 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 4.0 pCi/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 Waldo Middle School located at 56 Jackson Street 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 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. 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 thirty-three (33) locations. In addition, three (3) duplicates, and two (2) 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 IEEMA 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 thirty-eight (38) radon test devices were deployed including thirty-three (33) single devices, three (3) duplicates, and two (2) 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).

The radon measurement results indicate areas tested exceeded the EPA and IEMA recommended radon action level of 4.0 pCi/L during the time of the test. No radon mitigation systems were observed in the building. Additionally, the following testing abnormalities were noted during the radon measurement interval:

- The device (serial #9045168) placed in Room 106 – Boys Locker Room was missing at the time of retrieval
- The device (serial #9045176) placed in Lower Level Gymnasium was missing at the time of retrieval
- Running window air-conditioning unit in Classroom 108A was noted during radon measurement interval
- The device (serial #9044905) placed in Cafeteria 116 was missing at the time of retrieval



**Table 1.0 Radon Measurement Device Results**

**Waldo Middle School -  
56 Jackson Street  
Aurora, Illinois 60505**

Device Location	Device Serial #	Start Date	Start Time	Stop Date	Stop Time	Result (pCi/L)	Comments
Boys Locker Room 106	9045168	5/8/2018	6:00 PM	5/10/2018	---	---	Missing
Boys Locker Room Office 105	9045169	5/8/2018	6:02 PM	5/10/2018	6:26 PM	2.2	
Football Locker Room 109	9045170	5/8/2018	6:04 PM	5/10/2018	6:24 PM	3.1	
<b>Football Locker Room Storage 110</b>	<b>9045171</b>	<b>5/8/2018</b>	<b>6:04 PM</b>	<b>5/10/2018</b>	<b>6:24 PM</b>	<b>4.1</b>	
<b>Lower Level Electrical Room</b>	<b>9045172</b>	<b>5/8/2018</b>	<b>6:05 PM</b>	<b>5/10/2018</b>	<b>6:24 PM</b>	<b>11.9</b>	
<b>Athletic Storage 108</b>	<b>9045173</b>	<b>5/8/2018</b>	<b>6:07 PM</b>	<b>5/10/2018</b>	<b>6:22 PM</b>	<b>4.5</b>	
Athletic Storage 108	9045174	5/8/2018	6:07 PM	5/10/2018	6:23 PM	3.8	Duplicate RPD = 16.9%
<b>Elevator Mechanical Room</b>	<b>9045175</b>	<b>5/8/2018</b>	<b>6:08 PM</b>	<b>5/10/2018</b>	<b>6:23 PM</b>	<b>4.2</b>	
Lower Level Gymnasium	9045176	5/8/2018	6:10 PM	5/10/2018	---	---	Missing
Lower Level Gymnasium	9045177	5/8/2018	6:11 PM	5/10/2018	6:29 PM	1.2	
Storage Room 107	9045178	5/8/2018	6:13 PM	5/10/2018	6:31 PM	1.9	
Boiler/Mechanical Room 102	9045179	5/8/2018	6:14 PM	5/10/2018	6:33 PM	< 0.3	
Mechanical Room Office 102A	9045180	5/8/2018	6:15 PM	5/10/2018	6:34 PM	0.9	
Mechanical Room Storage 102B	9045181	5/8/2018	6:16 PM	5/10/2018	6:34 PM	0.8	

**Table 1.0 Radon Measurement Device Results**

**Waldo Middle School -  
56 Jackson Street  
Aurora, Illinois 60505**

<b>Device Location</b>	<b>Device Serial #</b>	<b>Start Date</b>	<b>Start Time</b>	<b>Stop Date</b>	<b>Stop Time</b>	<b>Result (pCi/L)</b>	<b>Comments</b>
Girls Locker Room 104	9045182	5/8/2018	6:18 PM	5/10/2018	6:30 PM	3.1	
Girls Locker Room Office 103	9045183	5/8/2018	6:19 PM	5/10/2018	6:29 PM	2.6	
Classroom 100	9045184	5/8/2018	6:22 PM	5/10/2018	6:35 PM	1.9	
Classroom 101	9045185	5/8/2018	6:24 PM	5/10/2018	6:37 PM	2.5	
Classroom 102A	9045186	5/8/2018	6:26 PM	5/10/2018	6:38 PM	3.3	
Classroom 102A	9045187	5/8/2018	6:26 PM	5/10/2018	6:38 PM	3.2	Duplicate RPD = 3.1%
Custodian Closet 102B	9045188	5/8/2018	6:29 PM	5/10/2018	6:39 PM	3.1	
Classroom 103	9045189	5/8/2018	6:31 PM	5/10/2018	6:41 PM	3.1	
Classroom 104	9045190	5/8/2018	6:32 PM	5/10/2018	6:42 PM	3.2	
Office 106	9045191	5/8/2018	6:33 PM	5/10/2018	6:43 PM	1.9	
Classroom 105	9045192	5/8/2018	6:35 PM	5/10/2018	6:45 PM	2.5	
<b>Storage Room Between 105 and 107</b>	<b>9045193</b>	<b>5/8/2018</b>	<b>6:37 PM</b>	<b>5/10/2018</b>	<b>6:46 PM</b>	<b>21.7</b>	
Classroom 108A	9045194	5/8/2018	6:40 PM	5/10/2018	6:47 PM	2.3	Window AC Unit Running
Classroom 108	9045195	5/8/2018	6:42 PM	5/10/2018	6:50 PM	2.3	
Classroom 108A	9045196	5/8/2018	6:43 PM	5/10/2018	6:51 PM	2.3	

**Table 1.0 Radon Measurement Device Results**

**Waldo Middle School -  
56 Jackson Street  
Aurora, Illinois 60505**

<b>Device Location</b>	<b>Device Serial #</b>	<b>Start Date</b>	<b>Start Time</b>	<b>Stop Date</b>	<b>Stop Time</b>	<b>Result (pCi/L)</b>	<b>Comments</b>
Classroom 108B	9045197	5/8/2018	6:45 PM	5/10/2018	6:51 PM	2.4	
Classroom 110	9045198	5/8/2018	6:46 PM	5/10/2018	6:52 PM	1.4	
Classroom 110	9045199	5/8/2018	6:46 PM	5/10/2018	6:52 PM	1.5	Duplicate RPD 6.9%
Classroom 110A	9045200	5/8/2018	6:47 PM	5/10/2018	6:54 PM	0.8	
Classroom 111	9044901	5/8/2018	6:50 PM	5/10/2018	6:55 PM	2.1	
Classroom 112	9044902	5/8/2018	6:51 PM	5/10/2018	6:56 PM	2.1	
Classroom 113	9044903	5/8/2018	6:54 PM	5/10/2018	6:58 PM	4	
Custodian Closet near 116	9044904	5/8/2018	6:57 PM	5/10/2018	7:00 PM	2.1	
Cafeteria 116	9044905	5/8/2018	6:58 PM	5/10/2018	---	---	Missing
Cafeteria 116	9044906	5/8/2018	6:59 PM	5/10/2018	7:00 PM	1.5	
Hallway	9044907	5/8/2018	7:00 PM	5/10/2018	7:01 PM	< 0.3	Blank
Hallway	9044908	5/8/2018	7:00 PM	5/10/2018	7:01 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.

**Bold** – indicated result exceeded radon action level.

## 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 Waldo Middle School located at 56 Jackson Street in Aurora, Illinois. The survey was initiated on May 8, 2018 and completed on May 10, 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 21.7 pCi/L. The radon measurement results indicate areas tested exceeded 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:

- Follow-up radon testing in locations exceeding the EPA recommended radon action level of 4.0 pCi/L. Per IEMA, a recommendation to mitigate elevated levels of radon shall not be based on initial measurement results. Follow-up radon testing is also recommended in locations with invalid test results.
- Routine follow-up radon measurement surveys every two (2) years at different seasonal times following IEMA and the USEPA testing protocols and the radon device manufacturer's recommendations.
- Additional testing if significant changes are made to the building's structural or mechanical components.

## **7.0 LIMITATIONS AND CONDITIONS**

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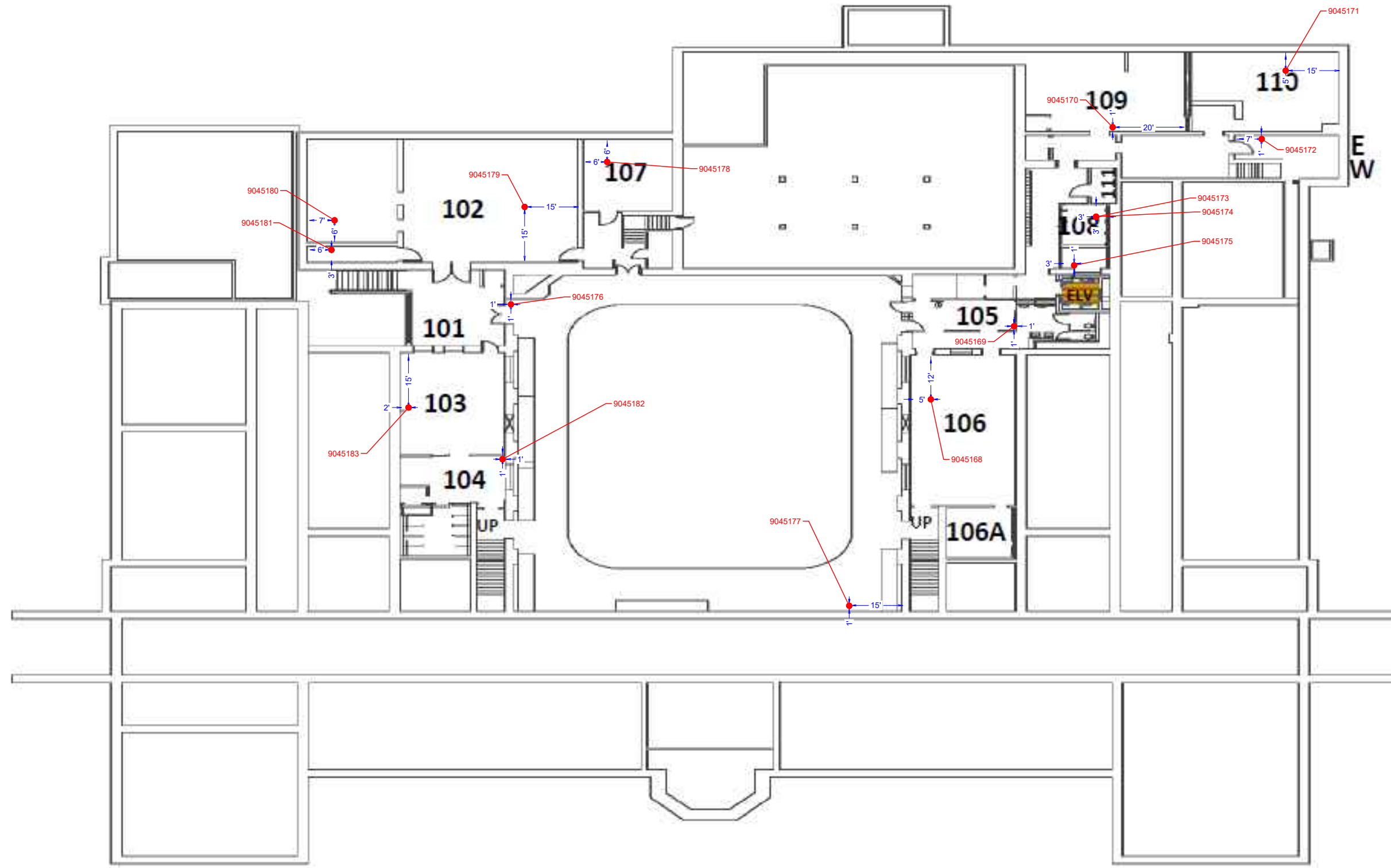
The information contained in this report was prepared for the exclusive use and reliance of East Aurora School District 131 and Carnow Conibear. This information is based on the specific parameters of the scope of work for this project and the regulations in force at the time of the report.

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 Waldo Middle 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 Waldo Middle School, Aurora, Illinois.

# APPENDIX A

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## Floor Plans – Radon Sampling Locations



1 RADON SAMPLE LOCATIONS  
LOWER LEVEL PLAN

NOT TO SCALE

TRUE NORTH

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

SHEET TITLE:  
Radon Testing Locations at  
Waldo Middle School  
56 Jackson Street  
Aurora IL, 60505

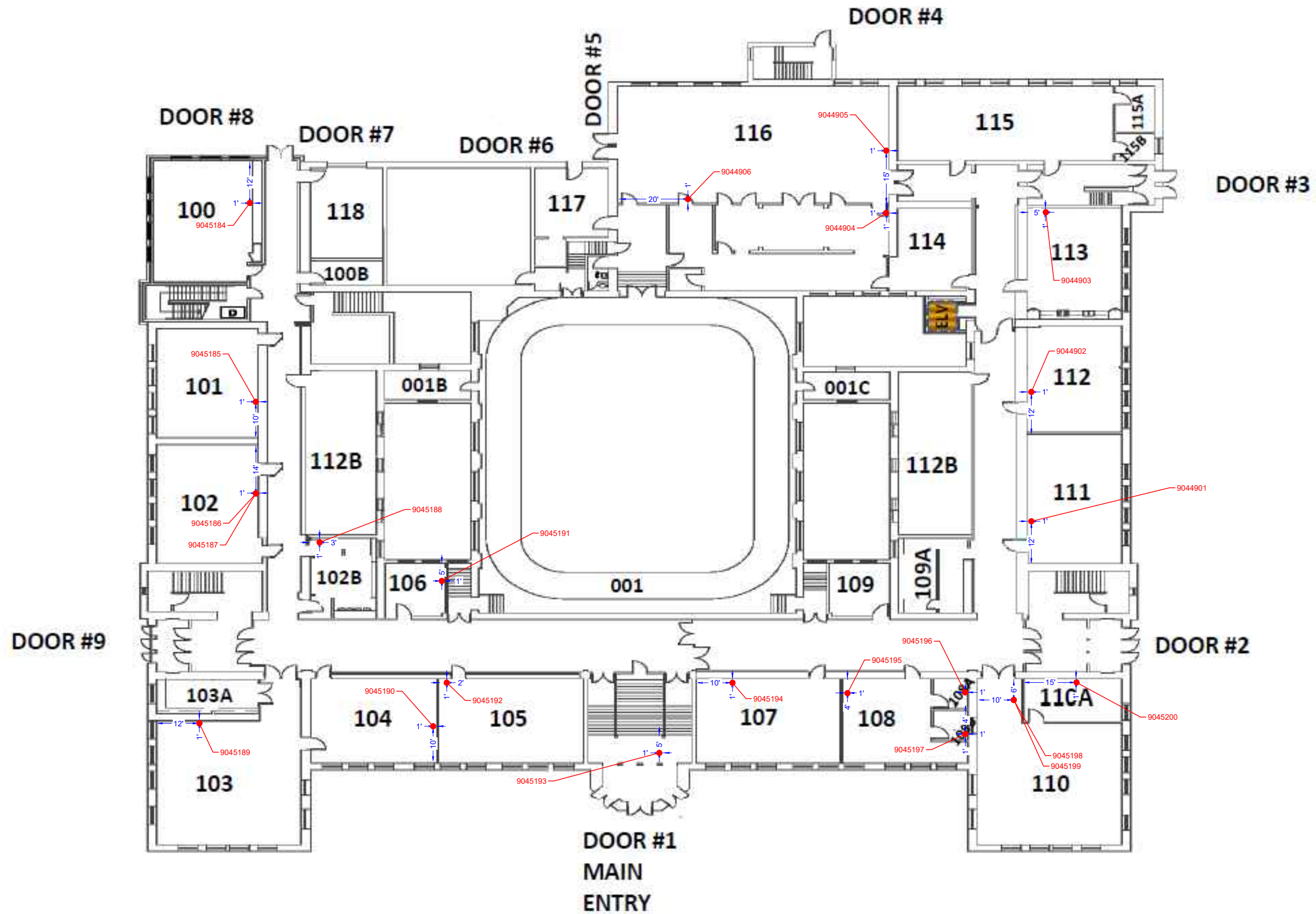
Carnow, Conibear & Assoc., Ltd.  
Environmental Consulting Services  
600 W. Van Buren St., Suite 500, Chicago, IL 60607  
t: 312.782.4486 f: 312.782.5145  
www.ccaltd.com

**CARNOW  
CONIBEAR**

CCA PROJECT NO.  
A146000137

SURVEY DATE:  
5/8/2018 to 5/10/2018

SHEET NO.  
Rn-1



2 RADON SAMPLE LOCATIONS  
UPPER LEVEL PLAN

NOT TO SCALE

TRUE NORTH

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

SHEET TITLE:  
Radon Testing Locations at  
Waldo Middle School  
56 Jackson Street  
Aurora IL, 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.ccaltd.com

**CARNOW  
CONIBEAR**

CCA PROJECT NO.  
A146000137

SURVEY DATE:  
5/8/2018 to 5/10/2018

SHEET NO.  
Rn-2



## APPENDIX B

Laboratory Analysis Report

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Radon test result report for:

**K.D. WALDO MIDDLE SCHOOL  
56 JACKSON STREET, AURORA, IL**

Kit #	Room Id	Started	Ended	pCi/L	Analyzed
9045173	ATHLETIC STORAGE 108	2018-05-08 @ 6:00 pm	2018-05-10 @ 6:00 pm	4.5 ± 0.4	2018-05-14
9045174	ATHLETIC STORAGE 108	2018-05-08 @ 6:00 pm	2018-05-10 @ 6:00 pm	3.8 ± 0.4	2018-05-14
9045179	BOILER/MECHANICAL ROOM 102	2018-05-08 @ 6:00 pm	2018-05-10 @ 7:00 pm	< 0.3	2018-05-14
9045169	BOYS LOCKER ROOM OFFICE 105	2018-05-08 @ 6:00 pm	2018-05-10 @ 6:00 pm	2.2 ± 0.4	2018-05-14
9044906	CAFETERIA 116	2018-05-08 @ 7:00 pm	2018-05-10 @ 7:00 pm	1.5 ± 0.4	2018-05-14
9045184	CLASSROOM 100	2018-05-08 @ 6:00 pm	2018-05-10 @ 7:00 pm	1.9 ± 0.4	2018-05-14
9045185	CLASSROOM 101	2018-05-08 @ 6:00 pm	2018-05-10 @ 7:00 pm	2.5 ± 0.4	2018-05-14
9045187	CLASSROOM 102A	2018-05-08 @ 6:00 pm	2018-05-10 @ 7:00 pm	3.2 ± 0.4	2018-05-14
9045186	CLASSROOM 102A	2018-05-08 @ 6:00 pm	2018-05-10 @ 7:00 pm	3.3 ± 0.4	2018-05-14
9045189	CLASSROOM 103	2018-05-08 @ 7:00 pm	2018-05-10 @ 7:00 pm	3.1 ± 0.4	2018-05-14
9045190	CLASSROOM 104	2018-05-08 @ 7:00 pm	2018-05-10 @ 7:00 pm	3.2 ± 0.4	2018-05-14
9045192	CLASSROOM 105	2018-05-08 @ 7:00 pm	2018-05-10 @ 7:00 pm	2.5 ± 0.4	2018-05-14
9045195	CLASSROOM 108	2018-05-08 @ 7:00 pm	2018-05-10 @ 7:00 pm	2.3 ± 0.4	2018-05-14
9045194	CLASSROOM 108A	2018-05-08 @ 7:00 pm	2018-05-10 @ 7:00 pm	2.3 ± 0.4	2018-05-14
9045196	CLASSROOM 108A	2018-05-08 @ 7:00 pm	2018-05-10 @ 7:00 pm	2.3 ± 0.4	2018-05-14
9045197	CLASSROOM 108B	2018-05-08 @ 7:00 pm	2018-05-10 @ 7:00 pm	2.4 ± 0.4	2018-05-14
9045198	CLASSROOM 110	2018-05-08 @ 7:00 pm	2018-05-10 @ 7:00 pm	1.4 ± 0.3	2018-05-14
9045199	CLASSROOM 110	2018-05-08 @ 7:00 pm	2018-05-10 @ 7:00 pm	1.5 ± 0.3	2018-05-14
9045200	CLASSROOM 110A	2018-05-08 @ 7:00 pm	2018-05-10 @ 7:00 pm	0.8 ± 0.3	2018-05-14
9044901	CLASSROOM 111	2018-05-08 @ 7:00 pm	2018-05-10 @ 7:00 pm	2.1 ± 0.4	2018-05-14
9044902	CLASSROOM 112	2018-05-08 @ 7:00 pm	2018-05-10 @ 7:00 pm	2.1 ± 0.4	2018-05-14
9044903	CLASSROOM 113	2018-05-08 @ 7:00 pm	2018-05-10 @ 7:00 pm	4.0 ± 0.4	2018-05-14
9045188	CUSTODIAN CLOSET 102B	2018-05-08 @ 6:00 pm	2018-05-10 @ 7:00 pm	3.1 ± 0.4	2018-05-14
9044904	CUSTODIAN CLOSET NEAR 116	2018-05-08 @ 7:00 pm	2018-05-10 @ 7:00 pm	2.1 ± 0.4	2018-05-14
9045175	ELEVATOR MECHANICAL ROOM	2018-05-08 @ 6:00 pm	2018-05-10 @ 6:00 pm	4.2 ± 0.4	2018-05-14
9045170	FOOTBALL LOCKER ROOM 109	2018-05-08 @ 6:00 pm	2018-05-10 @ 6:00 pm	3.1 ± 0.4	2018-05-14
9045171	FOOTBALL LOCKER ROOM STORAGE 110	2018-05-08 @ 6:00 pm	2018-05-10 @ 6:00 pm	4.1 ± 0.4	2018-05-14
9045182	GIRLS LOCKER ROOM 104	2018-05-08 @ 6:00 pm	2018-05-10 @ 7:00 pm	3.1 ± 0.4	2018-05-14
9045183	GIRLS LOCKER ROOM OFFICE 103	2018-05-08 @ 6:00 pm	2018-05-10 @ 6:00 pm	2.6 ± 0.4	2018-05-14
9044907	HALLWAY	2018-05-08 @ 7:00 pm	2018-05-10 @ 7:00 pm	< 0.3	2018-05-14
9044908	HALLWAY	2018-05-08 @ 7:00 pm	2018-05-10 @ 7:00 pm	< 0.3	2018-05-14
9045177	LOWER LEVEL GYMNASIUM	2018-05-08 @ 6:00 pm	2018-05-10 @ 6:00 pm	1.2 ± 0.3	2018-05-14
9045172	LOWER LEVEL ELECTRICAL ROOM	2018-05-08 @ 6:00 pm	2018-05-10 @ 6:00 pm	11.9 ± 0.6	2018-05-14
9045180	MECHANICAL ROOM OFFICE 102A	2018-05-08 @ 6:00 pm	2018-05-10 @ 7:00 pm	0.9 ± 0.3	2018-05-14
9045181	MECHANICAL ROOM STORAGE 102B	2018-05-08 @ 6:00 pm	2018-05-10 @ 7:00 pm	0.8 ± 0.3	2018-05-14
9045191	OFFICE 106	2018-05-08 @ 7:00 pm	2018-05-10 @ 7:00 pm	1.9 ± 0.4	2018-05-14
9045178	STORAGE ROOM 107	2018-05-08 @ 6:00 pm	2018-05-10 @ 7:00 pm	1.9 ± 0.3	2018-05-14

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May 16, 2018

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

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Radon test result report for:

**K.D. WALDO MIDDLE SCHOOL  
56 JACKSON STREET, AURORA, IL**

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<b>Kit #</b>	<b>Room Id</b>	<b>Started</b>	<b>Ended</b>	<b>pCi/L</b>	<b>Analyzed</b>
9045193	STORAGE ROOM BETWEEN 105 AND 107	2018-05-08 @ 7:00 pm	2018-05-10 @ 7:00 pm	21.7 ± 0.8	2018-05-14

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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.**



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*Patrick I. Daniels*

Patrick I. Daniels, Radon Program