



Radon Measurement Survey Report

Site:

**McKnight School Service Center
417 Fifth Street
Aurora, Illinois 60505**

Survey Dates: May 9, 2018 thru May 11, 2018



Prepared For:

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

Carnow Conibear Project No. A146000137



Radon Measurement Survey Report

Site:

**McKnight School Service Center
417 Fifth Street
Aurora, Illinois 60505**

Surveyed by:

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

Nicole Bennett
Radon Measurement Professional

Report by:

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

Nicole Bennett
Radon Measurement Professional

Reviewed by:

A handwritten signature in blue ink that appears to read "Derek Lantry".

Derek Lantry
Director, Technical Services

Report Issued: July 3, 2018

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1.0 EXECUTIVE SUMMARY

Carnow, Conibear, & Assoc., Ltd. (Carnow Conibear) was contracted by East Aurora School District 131 to perform a radon measurement survey at the McKnight School Service Center located at 417 Fifth Street in Aurora, Illinois. The survey was initiated on May 9, 2018 and completed on May 11, 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 fifty-eight (58) radon test devices were deployed including fifty (50) single devices, five (5) duplicates, and three (3) 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 9, 2018 and completed on May 11, 2018.

Radon measurement results ranged from less than ($<$) 0.3 to 8.2 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

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

Carnow, Conibear was contracted by East Aurora School District 131 to perform a radon survey at the School Service Center located at 417 Fifth 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 fifty (50) locations. In addition, five (5) duplicates, and three (3) 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

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 fifty-eight (58) radon test devices were deployed including fifty (50) single devices, five (5) duplicates, and three (3) 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

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 testing abnormalities were noted during the radon measurement interval. Additionally, no radon mitigation systems were observed in the building.

Table 1.0 Radon Measurement Device Results

**McKnight School Service Center -
417 Fifth Street
Aurora, Illinois 60505**

| Device Location | Device Serial # | Start Date | Start Time | Stop Date | Stop Time | Result (pCi/L) | Comments |
|-----------------|-----------------|-----------------|----------------|------------------|----------------|----------------|--------------------------|
| Room 4 | 9044973 | 5/9/2018 | 2:54 PM | 5/11/2018 | 4:16 PM | 3.4 | |
| Room 5 | 9044974 | 5/9/2018 | 2:55 PM | 5/11/2018 | 4:17 PM | 2.6 | |
| Room 2 | 9044975 | 5/9/2018 | 2:56 PM | 5/11/2018 | 4:18 PM | 2.5 | |
| Room 25 | 9044976 | 5/9/2018 | 2:56 PM | 5/11/2018 | 4:19 PM | 3.4 | |
| Room 26 | 9044977 | 5/9/2018 | 2:57 PM | 5/11/2018 | 4:21 PM | 3.4 | |
| Room 26 | 9044978 | 5/9/2018 | 2:57 PM | 5/11/2018 | 4:21 PM | 3.3 | Duplicate RPD 3.0% |
| Room 27 | 9044979 | 5/9/2018 | 2:58 PM | 5/11/2018 | 4:22 PM | 3.8 | |
| Room 6 | 9044980 | 5/9/2018 | 2:59 PM | 5/11/2018 | 4:23 PM | 3.3 | |
| Room 6 | 9044981 | 5/9/2018 | 2:59 PM | 5/11/2018 | 4:24 PM | 3.7 | |
| Room 28 | 9044982 | 5/9/2018 | 3:00 PM | 5/11/2018 | 4:27 PM | 3.1 | |
| Room 24 | 9044983 | 5/9/2018 | 3:01 PM | 5/11/2018 | 4:28 PM | 3.4 | |
| Room 23 | 9044984 | 5/9/2018 | 3:01 PM | 5/11/2018 | 4:29 PM | 3.6 | |
| Room 7 | 9044985 | 5/9/2018 | 3:02 PM | 5/11/2018 | 4:30 PM | 3.9 | |
| Room 22 | 9044986 | 5/9/2018 | 3:03 PM | 5/11/2018 | 4:32 PM | 3.6 | |
| Room 21 | 9044987 | 5/9/2018 | 3:04 PM | 5/11/2018 | 4:33 PM | 3.8 | |
| Room 21 | 9044988 | 5/9/2018 | 3:04 PM | 5/11/2018 | 4:35 PM | 3.3 | Duplicate RPD = 14.1% |
| Room 20 | 9044989 | 5/9/2018 | 3:05 PM | 5/11/2018 | 4:37 PM | 3.1 | |
| Room 12 | 9044990 | 5/9/2018 | 3:06 PM | 5/11/2018 | 4:38 PM | 4.0 | |
| Room 19 | 9044991 | 5/9/2018 | 3:07 PM | 5/11/2018 | 4:39 PM | 3.7 | |
| Room 18 | 9044992 | 5/9/2018 | 3:07 PM | 5/11/2018 | 4:39 PM | 3.5 | |

Table 1.0 Radon Measurement Device Results

**McKnight School Service Center -
417 Fifth Street
Aurora, Illinois 60505**

| Device Location | Device Serial # | Start Date | Start Time | Stop Date | Stop Time | Result (pCi/L) | Comments |
|------------------------|-----------------|-----------------|----------------|------------------|----------------|----------------|----------------------------------|
| Room 17 | 9044993 | 5/9/2018 | 3:08 PM | 5/11/2018 | 4:40 PM | 3.1 | |
| Room 16 | 9044994 | 5/9/2018 | 3:09 PM | 5/11/2018 | 4:41 PM | 3.8 | |
| Room 15 | 9044995 | 5/9/2018 | 3:10 PM | 5/11/2018 | 4:42 PM | 3.6 | |
| Room 11 | 9044996 | 5/9/2018 | 3:10 PM | 5/11/2018 | 4:43 PM | 4.8 | |
| Room 8 | 9044997 | 5/9/2018 | 3:14 PM | 5/11/2018 | 4:44 PM | 3.8 | |
| Room 29 | 9044998 | 5/9/2018 | 3:16 PM | 5/11/2018 | 4:47 PM | 3.6 | |
| Room 31 | 9044999 | 5/9/2018 | 3:18 PM | 5/11/2018 | 4:51 PM | 3.8 | |
| Room 31 | 9045000 | 5/9/2018 | 3:18 PM | 5/11/2018 | 4:52 PM | 4.4 | Duplicate RPD = 14.6% |
| Room 32 | 9044801 | 5/9/2018 | 3:20 PM | 5/11/2018 | 4:50 PM | 3.4 | |
| Room 33 | 9044802 | 5/9/2018 | 3:20 PM | 5/11/2018 | 4:53 PM | 3.7 | |
| Room 36 | 9044803 | 5/9/2018 | 3:22 PM | 5/11/2018 | 5:05 PM | 6.9 | |
| Room 35 | 9044804 | 5/9/2018 | 3:24 PM | 5/11/2018 | 4:55 PM | 3.3 | |
| Room 35A | 9044805 | 5/9/2018 | 3:25 PM | 5/11/2018 | 4:56 PM | 3.9 | |
| Room 35B | 9044806 | 5/9/2018 | 3:26 PM | 5/11/2018 | 4:57 PM | 4.1 | |
| Room 37 | 9044807 | 5/9/2018 | 3:27 PM | 5/11/2018 | 4:58 PM | 3.4 | |
| Room 39 | 9044808 | 5/9/2018 | 3:30 PM | 5/11/2018 | 5:17 PM | 3.4 | |
| Room 38 | 9044809 | 5/9/2018 | 3:32 PM | 5/11/2018 | 5:15 PM | 3.8 | |
| Room 38 | 9044810 | 5/9/2018 | 3:32 PM | 5/11/2018 | 5:15 PM | 2.8 | |
| Room 30 | 9044811 | 5/9/2018 | 3:36 PM | 5/11/2018 | 5:00 PM | 4.2 | |
| Room 41 / Boiler | 9044812 | 5/9/2018 | 3:38 PM | 5/11/2018 | 5:18 PM | 3.7 | |
| LL Storage Area | 9044813 | 5/9/2018 | 3:40 PM | 5/11/2018 | 5:18 PM | 7.3 | |
| Room 42 / East Side | 9044814 | 5/9/2018 | 3:42 PM | 5/11/2018 | 5:01 PM | < 0.3 | |

Table 1.0 Radon Measurement Device Results

**McKnight School Service Center -
417 Fifth Street
Aurora, Illinois 60505**

| Device Location | Device Serial # | Start Date | Start Time | Stop Date | Stop Time | Result (pCi/L) | Comments |
|--------------------|-----------------|-----------------|----------------|------------------|----------------|----------------|-------------------------|
| Room 42/ West Side | 9044815 | 5/9/2018 | 3:44 PM | 5/11/2018 | 5:02 PM | < 0.3 | |
| Room 43 | 9044816 | 5/9/2018 | 3:45 PM | 5/11/2018 | 5:03 PM | < 0.3 | |
| Room 43 | 9044817 | 5/9/2018 | 3:45 PM | 5/11/2018 | 5:03 PM | < 0.3 | Duplicate RPD = 0.0% |
| Room 44 | 9044818 | 5/9/2018 | 3:46 PM | 5/11/2018 | 5:05 PM | < 0.3 | |
| Room 42A / 42B | 9044819 | 5/9/2018 | 3:47 PM | 5/11/2018 | 5:06 PM | < 0.3 | |
| Room 14 | 9044820 | 5/9/2018 | 3:48 PM | 5/11/2018 | 5:25 PM | 5.4 | |
| Room 13 | 9044821 | 5/9/2018 | 3:50 PM | 5/11/2018 | 5:26 PM | 6.1 | |
| Room 10 | 9044822 | 5/9/2018 | 3:51 PM | 5/11/2018 | 5:07 PM | 5.8 | |
| Room 10 | 9044823 | 5/9/2018 | 3:51 PM | 5/11/2018 | 5:07 PM | 5.8 | Duplicate RPD = 0.0% |
| Room 10B | 9044824 | 5/9/2018 | 3:54 PM | 5/11/2018 | 5:09 PM | 5.5 | |
| Room 10A | 9044825 | 5/9/2018 | 3:55 PM | 5/11/2018 | 5:10 PM | 8.2 | |
| Room 9 | 9044826 | 5/9/2018 | 3:57 PM | 5/11/2018 | 5:11 PM | 6.3 | |
| Room 9 | 9044827 | 5/9/2018 | 3:58 PM | 5/11/2018 | 5:12 PM | 6.2 | |
| Hallway | 9044828 | 5/9/2018 | 4:00 PM | 5/11/2018 | 5:30 PM | < 0.3 | Blank |
| Hallway | 9044829 | 5/9/2018 | 4:00 PM | 5/11/2018 | 5:30 PM | < 0.3 | Blank |
| Hallway | 9044830 | 5/9/2018 | 4:00 PM | 5/11/2018 | 5:30 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 IEEMA recommended radon action level is 4.0 pCi/L.

Bold – indicated result exceeded radon action level

6.0 CONCLUSIONS

Carnow, Conibear, & Assoc., Ltd. (Carnow Conibear) was contracted by East Aurora School District 131 to perform a radon survey at the McKnight School Service Center located at 417 Fifth Street in Aurora, Illinois. The survey was initiated on May 9, 2018 and completed on May 11, 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 8.2 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.

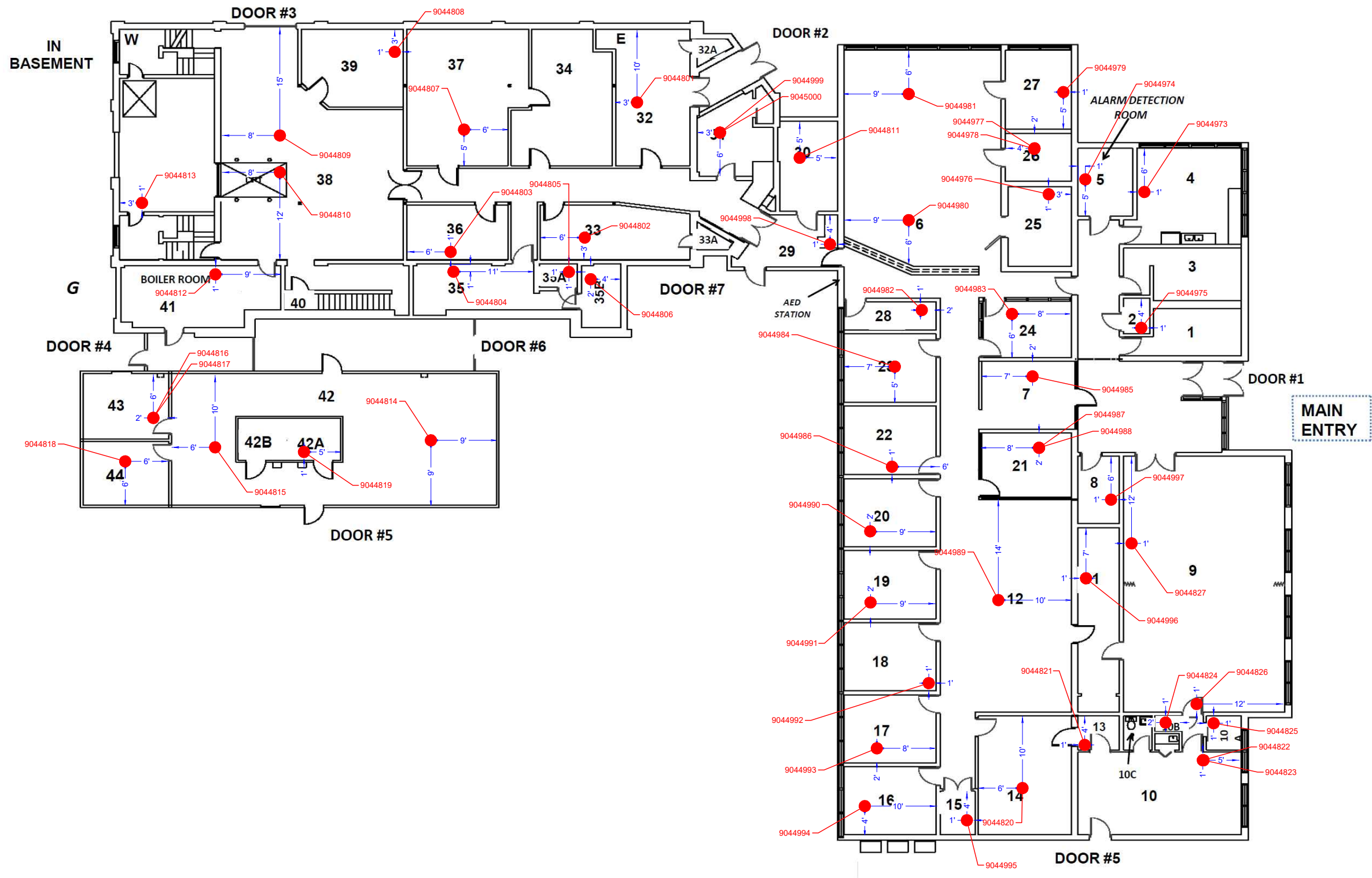
7.0 LIMITATIONS AND CONDITIONS

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 McKnight School Service Center, 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 McKnight School Service Center, Aurora, Illinois.

APPENDIX A

Floor Plans – Radon Sampling Locations



1 RADON SAMPLE LOCATIONS
GROUND LEVEL PLAN

NOT TO SCALE

TRUE NORTH

| | | | | | |
|--|--|--|---|---|---------------------------------------|
| TESTED BY: Derek Lantry IEMA License #: RNI2004213 | 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 Early Childhood Center 278 East Indian Trail 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 | CCA PROJECT NO. A146000137 |
| DRAWN BY: J. Kalingasan | | | | | SURVEY DATE: 5/8/2018 to 5/11/2018 |
| CHECKED BY: D. Lantry | | | | | SHEET NO. Rn-1 |



APPENDIX B

Laboratory Analysis Report

Radon test result report for:**SCHOOL SERVICE CENTER
417 FIFTH STREET, AURORA, IL**

| Kit # | Room Id | Started | Ended | pCi/L | Analyzed |
|---------|-----------------|----------------------|----------------------|-----------|------------|
| 9044829 | HALLWAY | 2018-05-09 @ 4:00 pm | 2018-05-11 @ 6:00 pm | < 0.3 | 2018-05-14 |
| 9044830 | HALLWAY | 2018-05-09 @ 4:00 pm | 2018-05-11 @ 6:00 pm | < 0.3 | 2018-05-14 |
| 9044828 | HALLWAY | 2018-05-09 @ 4:00 pm | 2018-05-11 @ 6:00 pm | < 0.3 | 2018-05-14 |
| 9044813 | LL STORAGE AREA | 2018-05-09 @ 4:00 pm | 2018-05-11 @ 5:00 pm | 7.3 ± 0.4 | 2018-05-14 |
| 9044823 | ROOM 10 | 2018-05-09 @ 4:00 pm | 2018-05-11 @ 5:00 pm | 5.8 ± 0.4 | 2018-05-14 |
| 9044822 | ROOM 10 | 2018-05-09 @ 4:00 pm | 2018-05-11 @ 5:00 pm | 5.8 ± 0.4 | 2018-05-14 |
| 9044825 | ROOM 10A | 2018-05-09 @ 4:00 pm | 2018-05-11 @ 5:00 pm | 8.2 ± 0.5 | 2018-05-14 |
| 9044824 | ROOM 10B | 2018-05-09 @ 4:00 pm | 2018-05-11 @ 5:00 pm | 5.5 ± 0.4 | 2018-05-14 |
| 9044996 | ROOM 11 | 2018-05-09 @ 3:00 pm | 2018-05-11 @ 5:00 pm | 4.8 ± 0.4 | 2018-05-14 |
| 9044990 | ROOM 12 | 2018-05-09 @ 3:00 pm | 2018-05-11 @ 5:00 pm | 4.0 ± 0.4 | 2018-05-14 |
| 9044821 | ROOM 13 | 2018-05-09 @ 4:00 pm | 2018-05-11 @ 5:00 pm | 6.1 ± 0.4 | 2018-05-14 |
| 9044820 | ROOM 14 | 2018-05-09 @ 4:00 pm | 2018-05-11 @ 5:00 pm | 5.4 ± 0.4 | 2018-05-14 |
| 9044995 | ROOM 15 | 2018-05-09 @ 3:00 pm | 2018-05-11 @ 5:00 pm | 3.6 ± 0.3 | 2018-05-14 |
| 9044994 | ROOM 16 | 2018-05-09 @ 3:00 pm | 2018-05-11 @ 5:00 pm | 3.8 ± 0.3 | 2018-05-14 |
| 9044993 | ROOM 17 | 2018-05-09 @ 3:00 pm | 2018-05-11 @ 5:00 pm | 3.1 ± 0.3 | 2018-05-14 |
| 9044992 | ROOM 18 | 2018-05-09 @ 3:00 pm | 2018-05-11 @ 5:00 pm | 3.5 ± 0.3 | 2018-05-14 |
| 9044991 | ROOM 19 | 2018-05-09 @ 3:00 pm | 2018-05-11 @ 5:00 pm | 3.7 ± 0.4 | 2018-05-14 |
| 9044975 | ROOM 2 | 2018-05-09 @ 3:00 pm | 2018-05-11 @ 4:00 pm | 2.5 ± 0.3 | 2018-05-14 |
| 9044989 | ROOM 20 | 2018-05-09 @ 3:00 pm | 2018-05-11 @ 5:00 pm | 3.1 ± 0.4 | 2018-05-14 |
| 9044987 | ROOM 21 | 2018-05-09 @ 3:00 pm | 2018-05-11 @ 5:00 pm | 3.8 ± 0.3 | 2018-05-14 |
| 9044988 | ROOM 21 | 2018-05-09 @ 3:00 pm | 2018-05-11 @ 5:00 pm | 3.3 ± 0.3 | 2018-05-14 |
| 9044986 | ROOM 22 | 2018-05-09 @ 3:00 pm | 2018-05-11 @ 5:00 pm | 3.6 ± 0.4 | 2018-05-14 |
| 9044984 | ROOM 23 | 2018-05-09 @ 3:00 pm | 2018-05-11 @ 4:00 pm | 3.6 ± 0.4 | 2018-05-14 |
| 9044983 | ROOM 24 | 2018-05-09 @ 3:00 pm | 2018-05-11 @ 4:00 pm | 3.4 ± 0.4 | 2018-05-14 |
| 9044976 | ROOM 25 | 2018-05-09 @ 3:00 pm | 2018-05-11 @ 4:00 pm | 3.4 ± 0.4 | 2018-05-14 |
| 9044977 | ROOM 26 | 2018-05-09 @ 3:00 pm | 2018-05-11 @ 4:00 pm | 3.4 ± 0.3 | 2018-05-14 |
| 9044978 | ROOM 26 | 2018-05-09 @ 3:00 pm | 2018-05-11 @ 4:00 pm | 3.3 ± 0.3 | 2018-05-14 |
| 9044979 | ROOM 27 | 2018-05-09 @ 3:00 pm | 2018-05-11 @ 4:00 pm | 3.8 ± 0.4 | 2018-05-14 |
| 9044982 | ROOM 28 | 2018-05-09 @ 3:00 pm | 2018-05-11 @ 4:00 pm | 3.1 ± 0.3 | 2018-05-14 |
| 9044998 | ROOM 29 | 2018-05-09 @ 3:00 pm | 2018-05-11 @ 5:00 pm | 3.6 ± 0.3 | 2018-05-14 |
| 9044811 | ROOM 30 | 2018-05-09 @ 4:00 pm | 2018-05-11 @ 5:00 pm | 4.2 ± 0.4 | 2018-05-14 |
| 9045000 | ROOM 31 | 2018-05-09 @ 3:00 pm | 2018-05-11 @ 5:00 pm | 4.4 ± 0.4 | 2018-05-14 |
| 9044999 | ROOM 31 | 2018-05-09 @ 3:00 pm | 2018-05-11 @ 5:00 pm | 3.8 ± 0.4 | 2018-05-14 |
| 9044801 | ROOM 32 | 2018-05-09 @ 3:00 pm | 2018-05-11 @ 5:00 pm | 3.4 ± 0.4 | 2018-05-14 |
| 9044802 | ROOM 33 | 2018-05-09 @ 3:00 pm | 2018-05-11 @ 5:00 pm | 3.7 ± 0.4 | 2018-05-14 |
| 9044804 | ROOM 35 | 2018-05-09 @ 3:00 pm | 2018-05-11 @ 5:00 pm | 3.3 ± 0.4 | 2018-05-14 |
| 9044805 | ROOM 35A | 2018-05-09 @ 3:00 pm | 2018-05-11 @ 5:00 pm | 3.9 ± 0.4 | 2018-05-14 |

May 16, 2018

**** LABORATORY ANALYSIS REPORT ****

Radon test result report for:

**SCHOOL SERVICE CENTER
417 FIFTH STREET, AURORA, IL**

| Kit # | Room Id | Started | Ended | pCi/L | Analyzed |
|---------|---------------------|----------------------|----------------------|-----------|------------|
| 9044806 | ROOM 35B | 2018-05-09 @ 3:00 pm | 2018-05-11 @ 5:00 pm | 4.1 ± 0.4 | 2018-05-14 |
| 9044803 | ROOM 36 | 2018-05-09 @ 3:00 pm | 2018-05-11 @ 5:00 pm | 6.9 ± 0.5 | 2018-05-14 |
| 9044807 | ROOM 37 | 2018-05-09 @ 3:00 pm | 2018-05-11 @ 5:00 pm | 3.4 ± 0.3 | 2018-05-14 |
| 9044810 | ROOM 38 | 2018-05-09 @ 4:00 pm | 2018-05-11 @ 5:00 pm | 2.8 ± 0.3 | 2018-05-14 |
| 9044809 | ROOM 38 | 2018-05-09 @ 4:00 pm | 2018-05-11 @ 5:00 pm | 3.8 ± 0.3 | 2018-05-14 |
| 9044808 | ROOM 39 | 2018-05-09 @ 4:00 pm | 2018-05-11 @ 5:00 pm | 3.4 ± 0.3 | 2018-05-14 |
| 9044973 | ROOM 4 | 2018-05-09 @ 3:00 pm | 2018-05-11 @ 4:00 pm | 3.4 ± 0.3 | 2018-05-14 |
| 9044812 | ROOM 41 / BOILER | 2018-05-09 @ 4:00 pm | 2018-05-11 @ 5:00 pm | 3.7 ± 0.3 | 2018-05-14 |
| 9044814 | ROOM 42 / EAST SIDE | 2018-05-09 @ 4:00 pm | 2018-05-11 @ 5:00 pm | < 0.3 | 2018-05-14 |
| 9044815 | ROOM 42/ WEST SIDE | 2018-05-09 @ 4:00 pm | 2018-05-11 @ 5:00 pm | < 0.3 | 2018-05-14 |
| 9044819 | ROOM 42A / 42B | 2018-05-09 @ 4:00 pm | 2018-05-11 @ 5:00 pm | < 0.3 | 2018-05-14 |
| 9044816 | ROOM 43 | 2018-05-09 @ 4:00 pm | 2018-05-11 @ 5:00 pm | < 0.3 | 2018-05-14 |
| 9044817 | ROOM 43 | 2018-05-09 @ 4:00 pm | 2018-05-11 @ 5:00 pm | < 0.3 | 2018-05-14 |
| 9044818 | ROOM 44 | 2018-05-09 @ 4:00 pm | 2018-05-11 @ 5:00 pm | < 0.3 | 2018-05-14 |
| 9044974 | ROOM 5 | 2018-05-09 @ 3:00 pm | 2018-05-11 @ 4:00 pm | 2.6 ± 0.3 | 2018-05-14 |
| 9044981 | ROOM 6 | 2018-05-09 @ 3:00 pm | 2018-05-11 @ 4:00 pm | 3.7 ± 0.3 | 2018-05-14 |
| 9044980 | ROOM 6 | 2018-05-09 @ 3:00 pm | 2018-05-11 @ 4:00 pm | 3.3 ± 0.3 | 2018-05-14 |
| 9044985 | ROOM 7 | 2018-05-09 @ 3:00 pm | 2018-05-11 @ 5:00 pm | 3.9 ± 0.4 | 2018-05-14 |
| 9044997 | ROOM 8 | 2018-05-09 @ 3:00 pm | 2018-05-11 @ 5:00 pm | 3.8 ± 0.3 | 2018-05-14 |
| 9044826 | ROOM 9 | 2018-05-09 @ 4:00 pm | 2018-05-11 @ 5:00 pm | 6.3 ± 0.4 | 2018-05-14 |
| 9044827 | ROOM 9 | 2018-05-09 @ 4:00 pm | 2018-05-11 @ 5:00 pm | 6.2 ± 0.4 | 2018-05-14 |

APPENDIX C

Radon Measurement Professional License

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