radonova
The global leader in radon measurement

REPORT NUMBER 5631215:1
REPORT DATE 2020-04-02
REPORT PAGE 1 of 2
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OWN ID N/A
BY Take Action on Radon
REPORT RECEIVER(S) DENNIS BOURQUE

Dennis Bourque
1043 County Rd. 44
Oxford Station ON K0G 1T0
CANADA

RADON MONITORING REPORT

Description of the measurement

The measurement was performed with a closed alpha-track detector (Radtrak$^{2®}$) following the quality guidance in CNRPP-AL-DF-v6.

The detector(s) arrived to Radonova Laboratories AB **2020-03-24**.
They were measured **2020-03-31**.

Test data have been given by Dennis Bourque

Property data and address

MEASURE SITE ADDRESS
1043 County Rd. 44
Oxford Station ON K0G 1T0

BUILDING ID

Test results

DETECTOR	MEASUREMENT PERIOD	DESCRIPTION / LOCATION	ROOM TYPE	FLOOR	RADON RESULT
444030-1	2019-12-07 – 2020-03-09				82 ± 18 Bq/m^3

Comment to the results

Tryggve Rönnqvist (Electronically signed)

Signature Radonova Laboratories AB Laboratory Measurement Specialist

SWEDAC ACKREDITERING
Accred. no. 1489
Testing
ISO/IEC 17025

QUALITY SYSTEM CERTIFICATION DNV·GL ISO 9001

ENVIRONMENTAL SYSTEM CERTIFICATION DNV·GL ISO 14001

RADONOVA INC.
900 Oakmont Lane Suite 207
Westmont IL 60559
331.814.2200, help@radonova.com

Measurement method: Closed alpha-track detector (Radtrak²®)

The radon measurement was performed with a closed alpha-track detector following the quality assurance guidance given in CNRPP-AL-DF-v6. The detector container is manufactured from electrically conducting plastic. Through a small slit (filter), radon gas enters the detector. The track-detecting material (film) inside the detector is hit by alpha particles generated by the radon entering the container and the decay products formed from it. On the film, the alpha particles make small tracks which are enlarged through chemical etching and later analyzed via our proprietary Track-Etch(R) methodology to determine the radon exposure. Radonova Laboratories AB (P.O. Box 6522, SE-751 38 Uppsala, Sweden) is accredited (no. 1489) by SWEDAC to conduct radon-gas measurements using the closed alpha-track detector method. The analysis equipment is checked daily and the detectors are calibrated at regular intervals. CNRPP License CRT 201475.

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 200 ± 30 Bq/m³ means that the radon concentration is most likely contained in the range 170 - 230 Bq/m³. 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 kBqh/m³ will be reported. The average radon concentration can be calculated by dividing the total exposure with the number of measured hours and multiplying that result with 1000. The reported measured values are related to the detectors as received by Radonova Laboratories AB. Detector deployment is not performed by Radonova Laboratories AB. Measurement information such as monitoring period (dates) and placement location is provided to Radonova Laboratories AB by the end user.

Codes on non-reportable detectors

DNR	Not Reported – Detector Not Returned
VTW	Not Reported – Visibly Tampered With
FBD	Not Reported – Film Broken or Damaged
LIL	Not Reported – Lost in Lab
DTO	Not Reported – Detector Too Old

Radon measurements in Canada

Health Canada recommends that the radon test performed in a home or public building be a long-term measurement. Health Canada does not recommend a test of duration less than one month. A minimum of 3 months is recommended and 12 months is optimum. Short-term tests are conducted between 2 and 90 days and should be performed under closed building conditions. It is strongly recommended that the result of any short-term measurement be confirmed with a "follow-up" long-term measurement. A single short-term measurement is not a sufficient basis for a decision to mitigate. Remedial measures should be undertaken in a dwelling whenever the average annual radon concentration exceeds 200 Bq/m³ in the normal occupancy area. The higher the radon concentration, the sooner remedial measures should be undertaken.

The following time frame to remediate is recommended:

Radon concentration Recommended Remedial Action Time
Greater than 600 Bq/m³ in less than 1 year
Between 200 Bq/m³ and 600 Bq/m³ in less than 2 years
Less than 200 Bq/m³ No action required

More information radon can be found in the Health Canada publication:

- Guide for Radon Measurements in Residential Dwellings (Homes)
- Radon – Reduction Guide for Canadians
- Radon: Is it in your Home?
- Radon – Another Reason to Quit

Signature on the report

With the signature on the report, the person responsible for the radon analysis at Radonova Laboratories AB hereby certifies that the measurement procedures follows the guidance in accordance with CNRPP-AL-DF-v6 and that the demands from SWEDAC are fulfilled.

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