Active Soil Depressurization (ASD) Radon Field Study Data Dictionary

Becquerel (Bq)

The SI unit for radioactive decay. One becquerel is defined as one radioactive decay per second.

Bq/m3

Becquerels per cubic metre. The SI units used to report radon concentration in air.

Long-Term Post-Mitigation Radon Concentration (Bq/m3)

The final indoor radon concentration in the home after it was mitigated based on a long-term (3-month) radon test expressed in becquerels per cubic metre of air.

% Radon Reduction Achieved

The percentage reduction in the indoor radon concentration achieved after the mitigation was complete. It is calculated by taking the difference between the pre-mitigation and post-mitigation radon concentrations divided by the pre-mitigation radon concentration, and multiplying this quotient by 100 to create a percent.

$$\% Radon Reduction=\left[\frac{\left(PreMitigation Radon Concentration-PostMitigation Radon Concentration\right)}{PreMitigation Radon Concentration} \right]X 100$$

Pre-Mitigation Radon Concentration (Bq/m3)

The indoor radon concentration in the home prior to it having being mitigated, supplied by the homeowner and expressed in becquerels per cubic metre of air.

Result Number

Incrementing value for the 52 homes in the study. The radon mitigation data in the CSV file is sorted from lowest to highest long-term post-mitigation radon concentration (column 3) for each home, so the result number increments from 1 to 52.