

Radon in Water

What you need to know.

Lung cancer is the leading concern from off-gassing radon.

Stomach cancer accounts for 87% of the ingestion risk.

Radon can be inhaled.



25,000 North Americans die every year from radon-induced lung cancer. Radon is the leading cause of lung cancer in nonsmoking North Americans.¹

Radon has been identified as a public health concern when present in drinking water. Water from wells can have high radon concentrations. Because radon is relatively insoluble in water, water use releases radon into the indoor air and contributes to the total indoor-airborne radon concentrations.

Why mitigate radon from your water?

RADON IS OFF GASED:



IN THE SHOWER



AT THE KITCHEN SINK



IN THE LAUNDRY



Your lungs inhale the radon and receive damage as radon decays, leading to lung cancer.

Radon can be ingested.



Ingestion of radon in water will result in a direct health risk though irradiation of sensitive cells in the gastrointestinal tract and other organs once it is absorbed into the bloodstream.²

Most of the scientific evidence links long-term exposure to radon in air with an increased risk of lung cancer. However radon is listed as a regulated contaminant in public water supplies.³ Increased radiation exposure should always be avoided, where possible.



by Radon Environmental



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Radon accounts for approximately **25,000 lung cancer deaths** every year in North America.

Radon **can** be eliminated from drinking water.



A proven radon in drinking water remediation technology is available. Airwell™ reduces radon levels by 92-99%.

As radon is a gas, it is readily lost from water due to agitation of the water. The installation of an aeration system between the source and the domestic tap will significantly reduce the level of radon in tap water.



Airwell takes **no space**.

Airwell mitigates radon outside the home. It is installed at the wellhead.

In-house aeration systems must be installed level, be convenient for exhaust venting, and be assessed for noise disturbances to the occupants. Airwell is installed at the wellhead. Maintenance costs are also negligible in comparison with the \$200-\$500 per year diffused bubble system.



The Airwell solution.

Aeration systems achieve the highest radon reduction: up to 99% versus 50-80% with granular activated carbon (GAC).⁴

The aeration method also has the advantage of not introducing an additional risk of radioactive waste in the home like GAC methods.

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**Pets not only breathe our air;
they ingest our water too.**

**Protect the whole family
from radon.**

Join the **Bark Side of Radon:**
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92-99% radon reduction: case study proven.

Radon has been identified as a public health concern when present in drinking water. Water from wells can have high radon concentrations. These case studies demonstrate what can be achieved with Airwell.

AIRWELL CASE STUDY #1: MAINE RESIDENCE, MOUNT VERNON

The Maximum Exposure Guideline (MEG) for water radon in Maine is 4,000 pCi/L. Drinking water at a Mount Vernon residence independently analyzed by A&L Laboratory reported radon at 8,864 pCi/L, failing state guidelines. Twenty-four hours after Airwell was installed, the laboratory reported a pass at 476 pCi/L.

AIRWELL CASE STUDY #2: MAIN RESIDENCE, ROME

Radon in water at a residence in Rome, Maine measured 22,000 pCi/L prior to radon in water mitigation by installation of an Airwell aeration system. Independent analysis by A&L Laboratory in Auburn, Maine reported 219 pCi/L post mitigation.

AIRWELL CASE STUDY #3: NEW HAMPSHIRE RESIDENCE

The EPA does not regulate private wells. Private well owners are responsible for the safety of their water. Nelson Analytical Lab, an accredited and certified laboratory, reported 20,000 pCi/L radon in water levels at a residence in New Hampshire. An Airwell aeration system was installed on the property outside the home at the wellhead. Post mitigation results read 1,090 pCi/L. **Aeration by Airwell achieved a 94.5% radon reduction.**





Prevent radon-induced cancers in your home.

Find your local Airwell distributor.



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TELEPHONE
888 527 4717 toll free
778 327 4717 local



EMAIL
info@radoncorp.com

References

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3. Radon Mitigation Proficiency Course, 2016 Canada Edition, 2012, Board of Regents University of Minnesota.

4. *Ibid.*



Airwell™ is sold and distributed by Radon Environmental. Radon Environmental is working to promote better water quality across North America as a member of the Eastern Water Quality Association, Water Quality Association, and the National Ground Water Association.



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PRODUCTS**