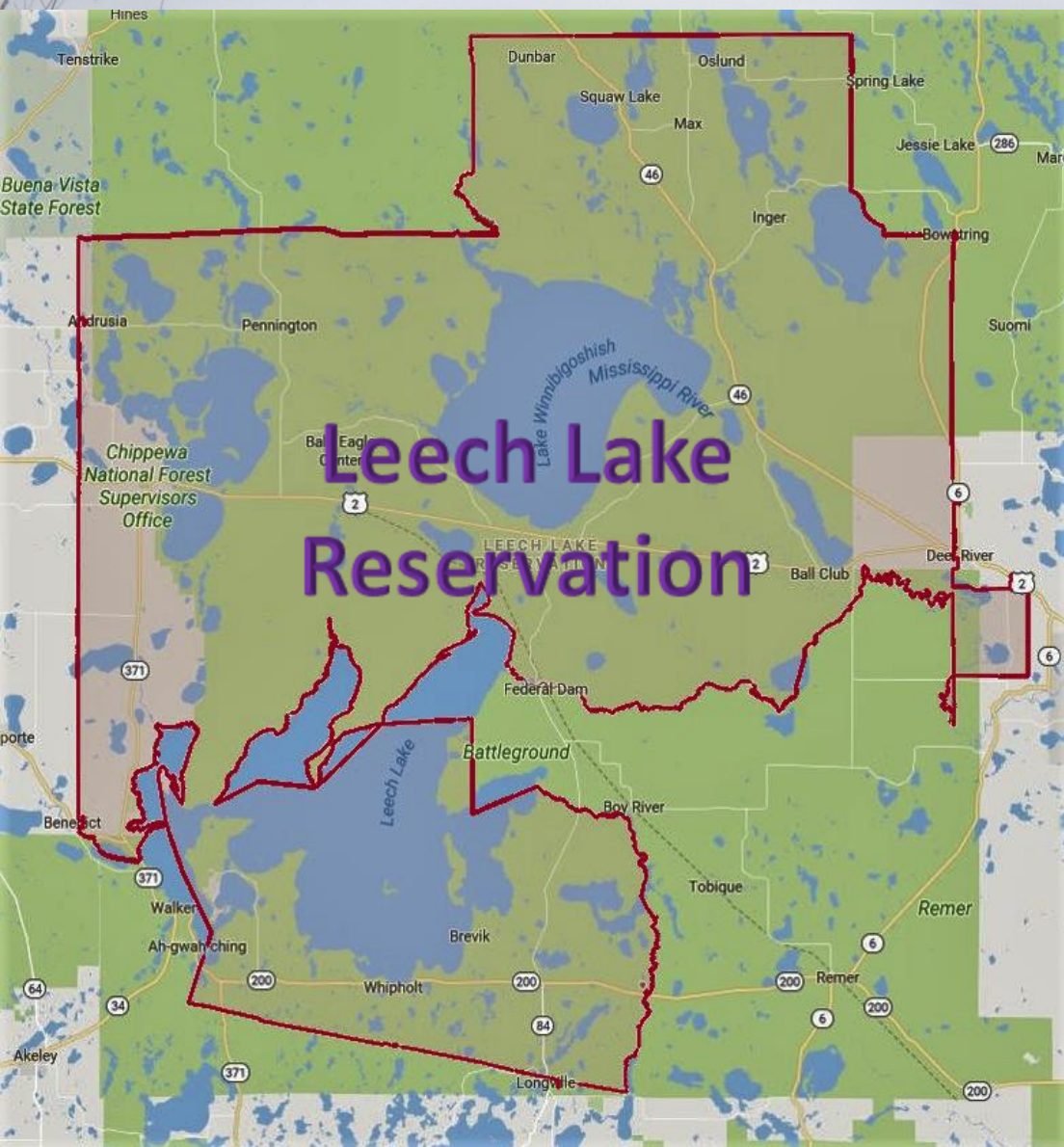


Leech Lake
Band of
Ojibwe
Tribal Radon
Program



Johnny Brown
Radon Technician



- ✓ Rural area in North Central Minnesota
- ✓ 14 communities
- ✓ 864,158 acres, over 78% is lakes/wetlands
- ✓ 270 fishable lakes
- ✓ 40 wild rice lakes
- ✓ LLBO services help 12,000 people

Leech Lake Testing Program

☀ **Tested 1,400+ homes**

α *1046 short term*

α *387 long term*

☀ **Seven head-start facilities**

☀ **Tribal Elem-Middle School**

☀ **New Tribal High School**

☀ **New Community Center**

☀ **18 Government buildings**

α *130 Short term*

α *80 Long term*

Testing 2023/2024

- Tested 140 homes in 6 tribal communities with short term radon test kits.

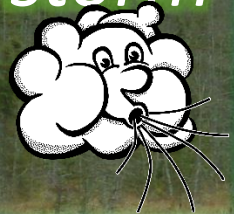


Outreach

- The Radon Technician and DRM Environmental Director attended local major events promoting radon education and promote radon testing.
 - Earthday, Leech Lake Days, State of the Band, Quarterly Meetings
- January NRAM article to Tribal online news site.
- NRAM email to 1,000 Leech Lake employees
- Radio interview at Tribal radio station promoting radon testing and NRAM.
- Each household tested is given an informational Leech Lake Radon Program tri-fold.

Outreach Tools

- Re-usable Bags with program logo
- Post-it notes
- LL Radon program trifolds
- Updated and fixed billboard - due to *T-storm*
- Curved display



WHY IS RADON DANGEROUS?

Radon is responsible for **21,000** lung cancer deaths per year.

28
DEATHS
PER DAY



WHAT IS RADON?

- Radon is a naturally occurring gas in the soil and can be found almost everywhere.
- Your greatest exposure is where radon can concentrate, inside your home.
- You cannot see, smell or taste radon.
- Radon can cause lung cancer and has no symptoms.
- Radon is the 2nd leading cause of lung cancer with 21,000 deaths per year.
- The healthiest people can get lung cancer from radon. *If you smoke, your risk is 4 times greater.*
- Living in a home with 4 pCi/L over 12 years is equal to smoking 10 packs of cigarettes per day.
- There is *no known safe level* of radon.

DOES MY HOUSE HAVE HIGH LEVELS OF RADON?

The **ONLY WAY** to find out is to **TEST YOUR HOME.**

- The average indoor level is 1.3 pCi/L, outdoor is 0.4 pCi/L.
- In Minnesota, 2 in 5 homes have radon issues.
- Minnesota's geology produces a natural supply of radon that can build up in your home.
- Radon levels as high as 44 pCi/L have been measured on the Leech Lake Reservation.

PROTECT, PREVENT, TEST!

The Leech Lake Radon Program uses the World Health Organization action level of 2.7 pCi/L instead of EPA's 4.0 pCi/L level. This means if your radon levels are 2.7 or higher, there is a health concern that needs to be addressed.

TEST YOUR HOME!

Old or new, drafty or well sealed, with or without a basement or crawl space... **ALL HOMES** need to be tested!

We offer 1 free test kit per household.

Short term test: 3-7 days
Long term test: 90 days - 1 year



**RETEST
EVERY 5
YEARS!**

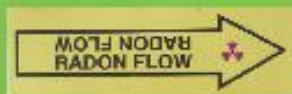




Radon fan installed in an attic.

3 WAYS YOU CAN PROTECT YOU AND YOUR FAMILY:

1. Get informed. Test your home.
2. Tell your family & friends to test their homes.
3. Fix your home if it has high levels of radon.



MY RADON TEST SAYS I HAVE HIGH RADON LEVELS. WHAT CAN I DO?

- Your home is *fixable*. A radon mitigation system can be installed in your home to divert the harmful gas.
- These systems act as a vacuum that sucks the radon out from under your home's foundation.
- These systems work 24/7 to keep radon out of your home and costs less than \$2 per month to run!
- The Leech Lake Radon Program is here to provide information and technical assistance to homeowners.



LEECH LAKE RADON PROGRAM

Radon Technician | 218-335-3716
 radonjohnny15@outlook.com
 Air Quality Specialist | 218-335-7441
 Environmental Deputy Director | 218-335-7429

Websites to learn more:

www.llojibwe.org/drm/environmental/radon.html
www.health.state.mn.us/divs/eh/indoorair/radon/

LEECH LAKE RADON PROGRAM



RADON GAS
 IS THE SECOND LEADING CAUSE OF
LUNG CANCER

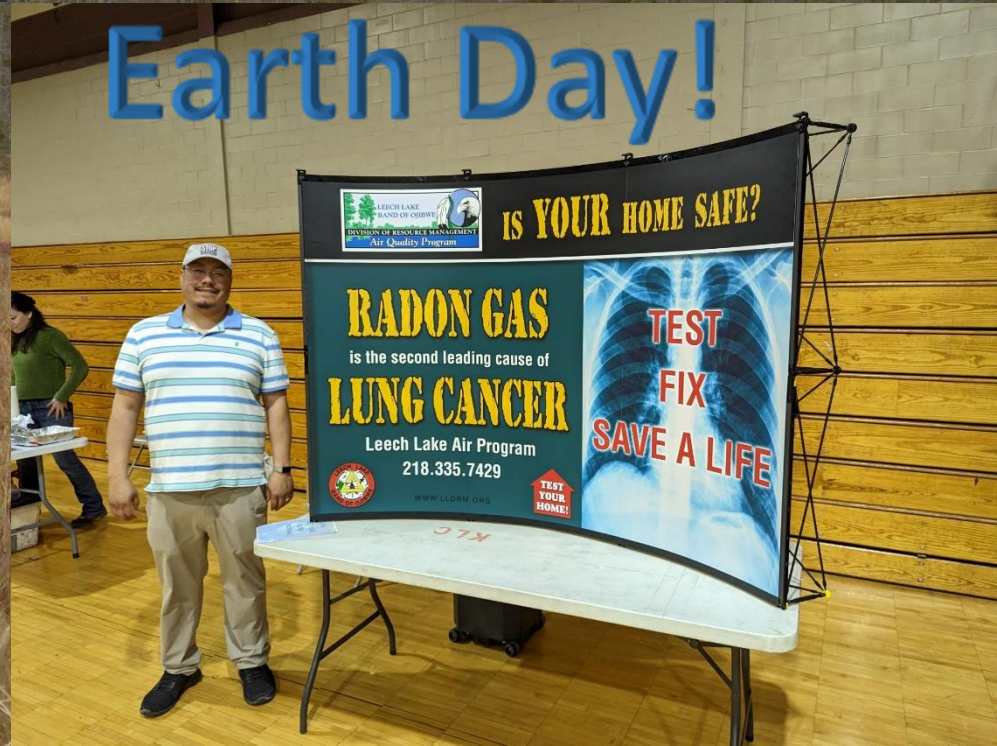


Protect your family.
 Prevent lung cancer.
TEST YOUR HOME!

State of the Band!



Earth Day!



Radon Symposium!



Conference of
State Radiation Control
Program Directors
www.crcpd.org
Partnership
Dedicated to
Radiation Protection



RADON
LEADERS SAVING LIVES

R 21,000
J.S. Lung
Cancer
Deaths
per Year

A Leading
Cause of
Death in
Homes

D You Can
Lower the
Risk in
Your State

O There Are
Policy
Options
That Work

N Have You
Tested
Your
Home?



New Billboard

RADON GAS
IS THE SECOND LEADING CAUSE OF
LUNG CANCER

Leech Lake Air Program
218.335.7429

LEECH LAKE
BAND OF OJIBWE

TEST
YOUR
HOME

fixed

System Maintenance

- Perform maintenance on radon systems
 - Replacing fans,
 - Relocating fans,
 - Repairing radon pipes
 - Darn plumbers



Mitigation

- 145 mitigation systems
- 122 homes built RRNC
- Many families with less radon in home





Johnny installing radon pipe in attic



Johnny installing radon pipe in attic



Assistance

- **Overseen and accompanied BIA contractors in testing Tribal k-12 school April 2018.**
- **Converge with new Tribal buiding projects to implement RRNC.**

**Co-hosted Minnesota Radon Partnership workshop
11/9/17**

Continue to network

- Conference Calls
- Regional meeting – 😊
- National Radon Conference
 - E25 Committee Member
- AARST Foundation Board Member
- National Radon Action Plan Member - NTAA
- National Tribal Forum
 - Radon Training session

Leech Lake
Band of Ojibwe
Tribal Radon
Program



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