

# Hunting the Source

Technology for the Hunt

July 9, 2024

EPA Region 5 Radon Stakeholders' Meeting  
Ann Arbor, MI

Chad Robinson – Radon Solutions

Post Mitigation Radon Concentrations  
are Elevated.

What is the First Step?

1) Verify PFE Under  
Each Foundation  
Zone.

# How do we Verify PFE?



infiltec.com  
DM1

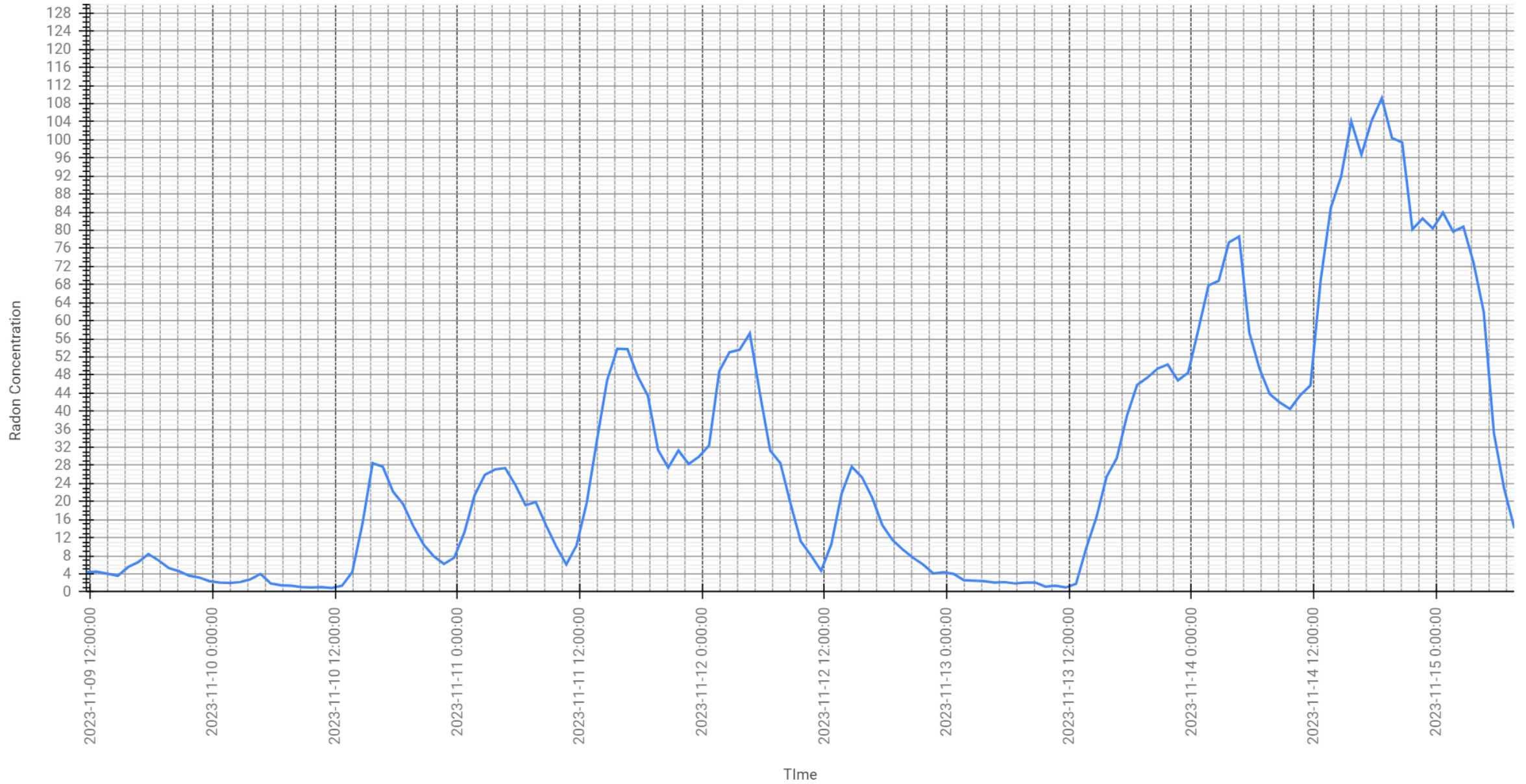


Energyconservatory.com  
DG-8



Radonsniffer.com  
ES008

# Radon Concentrations VS Time



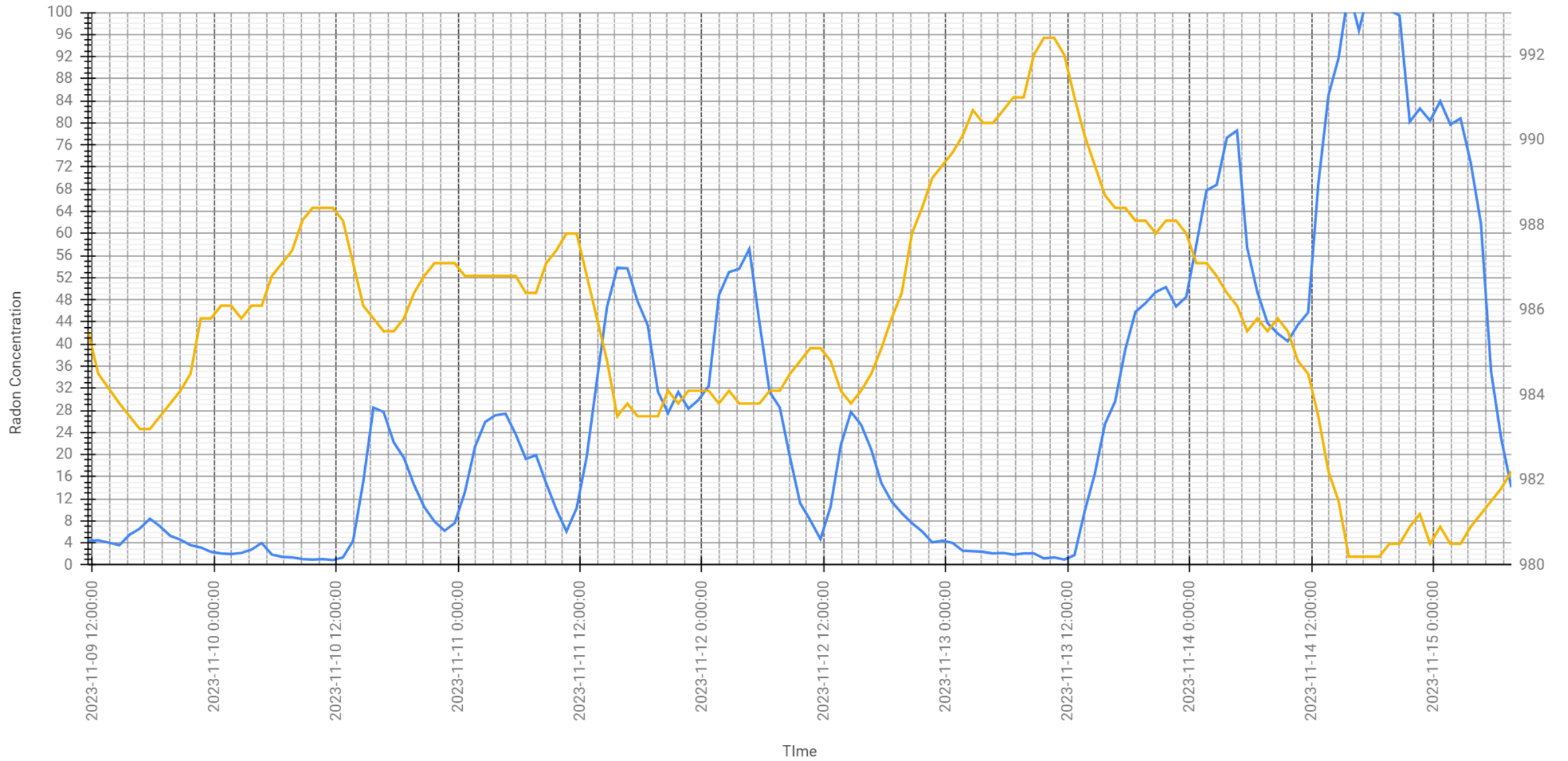
WHY???

Weather Data From :

<https://mrcc.purdue.edu/CLIMATE/>

# Radon Concentrations and Barometric Pressure VS Time

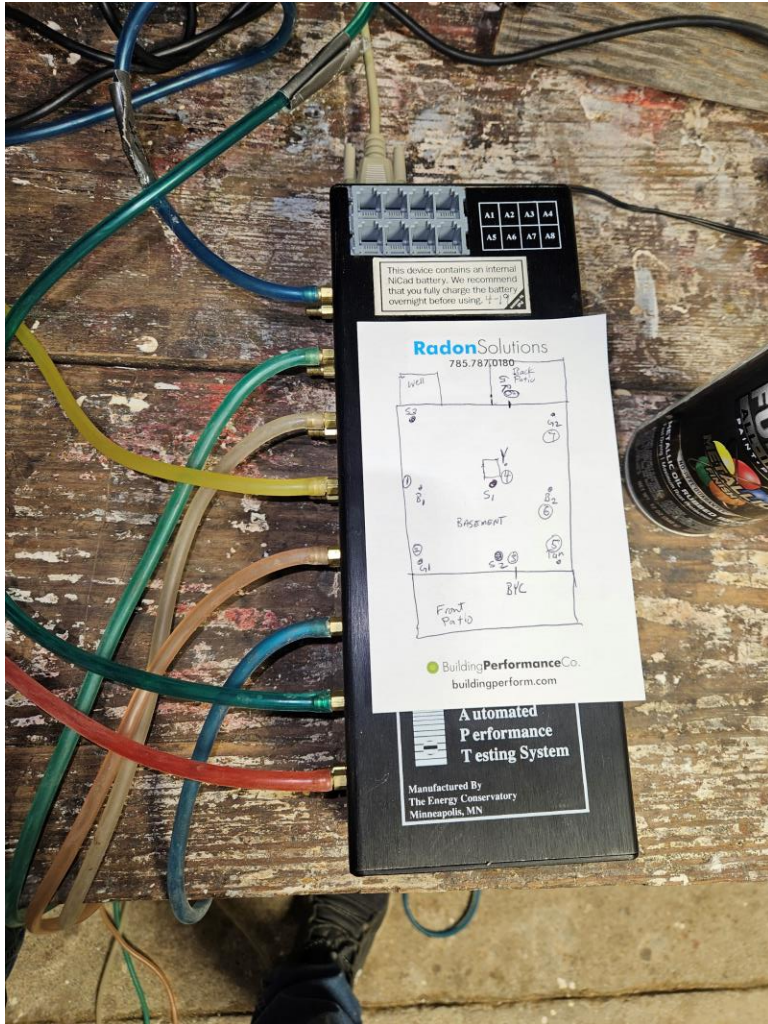
Radon Center   Radon South   Atm Pressure





When is your PFE Measurement Valid?

# When is your PFE Measurement Valid?

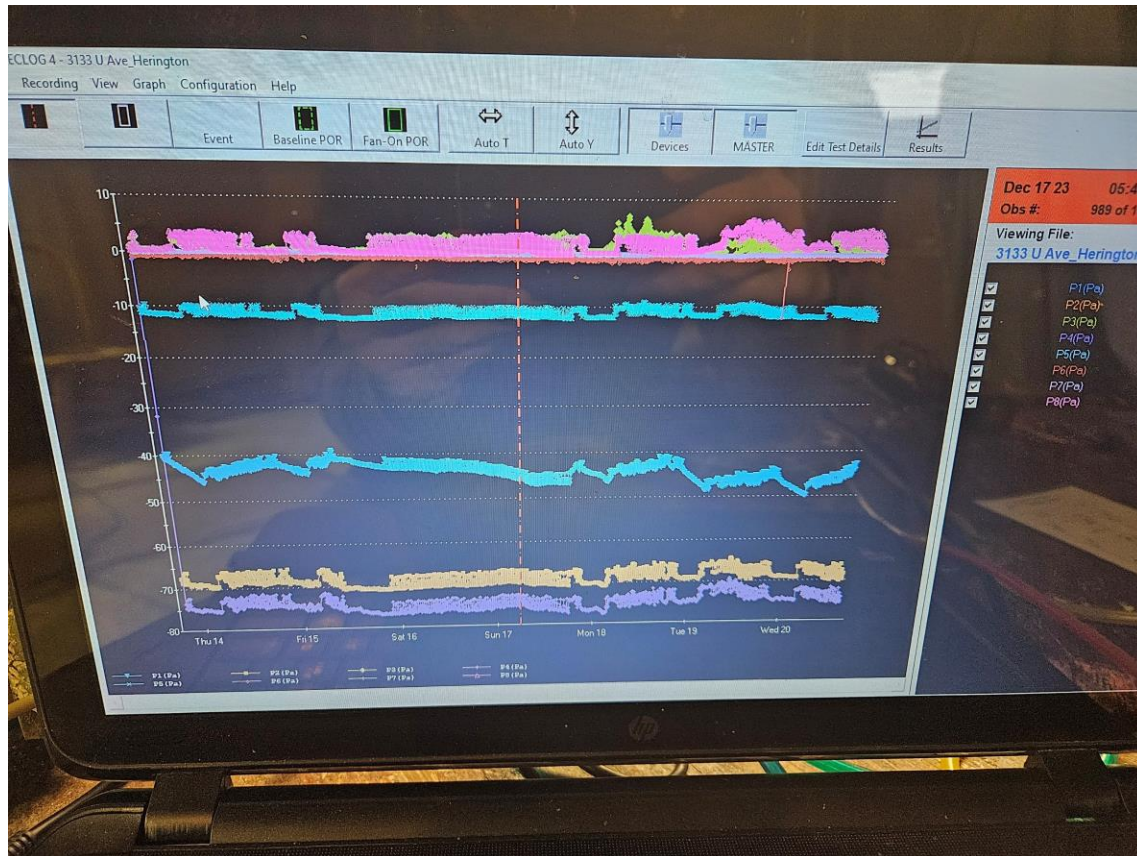


The Energy Conservatory 8-channel pressure data logger.  
No longer built.

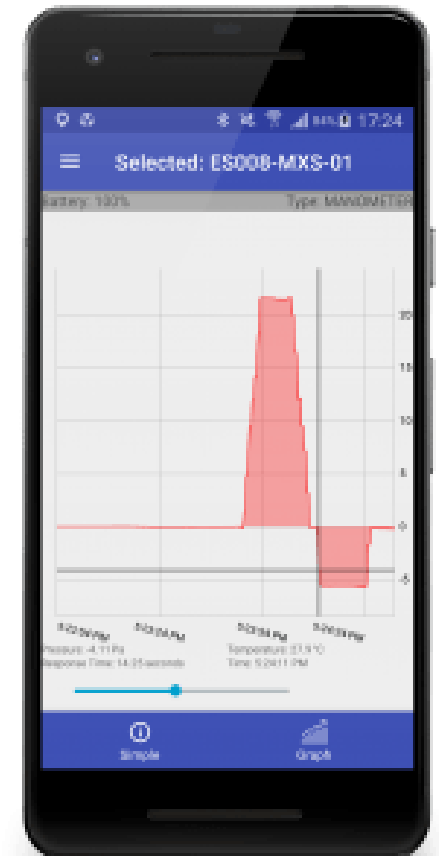


Radonsniffer.com  
ES008

# When is your PFE Measurement Valid?



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Radonsniffer.com  
ES008

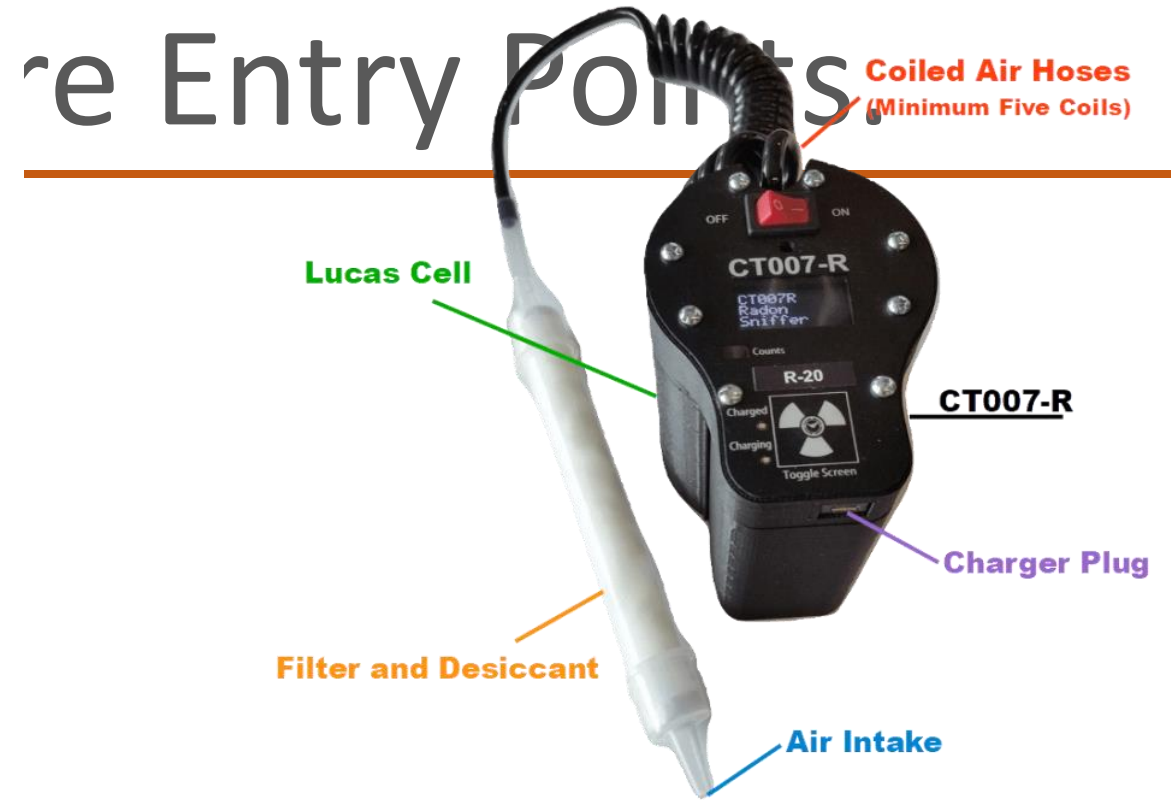
What if You Do Have PFE Under Every  
Foundation Zone and Still Have a Radon  
Problem?

2) Look for Entry Routes Through Walls/Obscure Entry Points.

# 2) Look for Entry Routes Through the Entry Points



Ecosense.io  
EcoTracker



Radonsniffer.com  
CT007-R

Note: Sensor/inlet must be near radon entry point. Radon dissipates quickly from the entry point.

2) Look  
Walls

through  
oints.



Note: Sensor/inlet n

y from the entry point.

2) Look  
Walls

through  
oints.



Radon Monitor

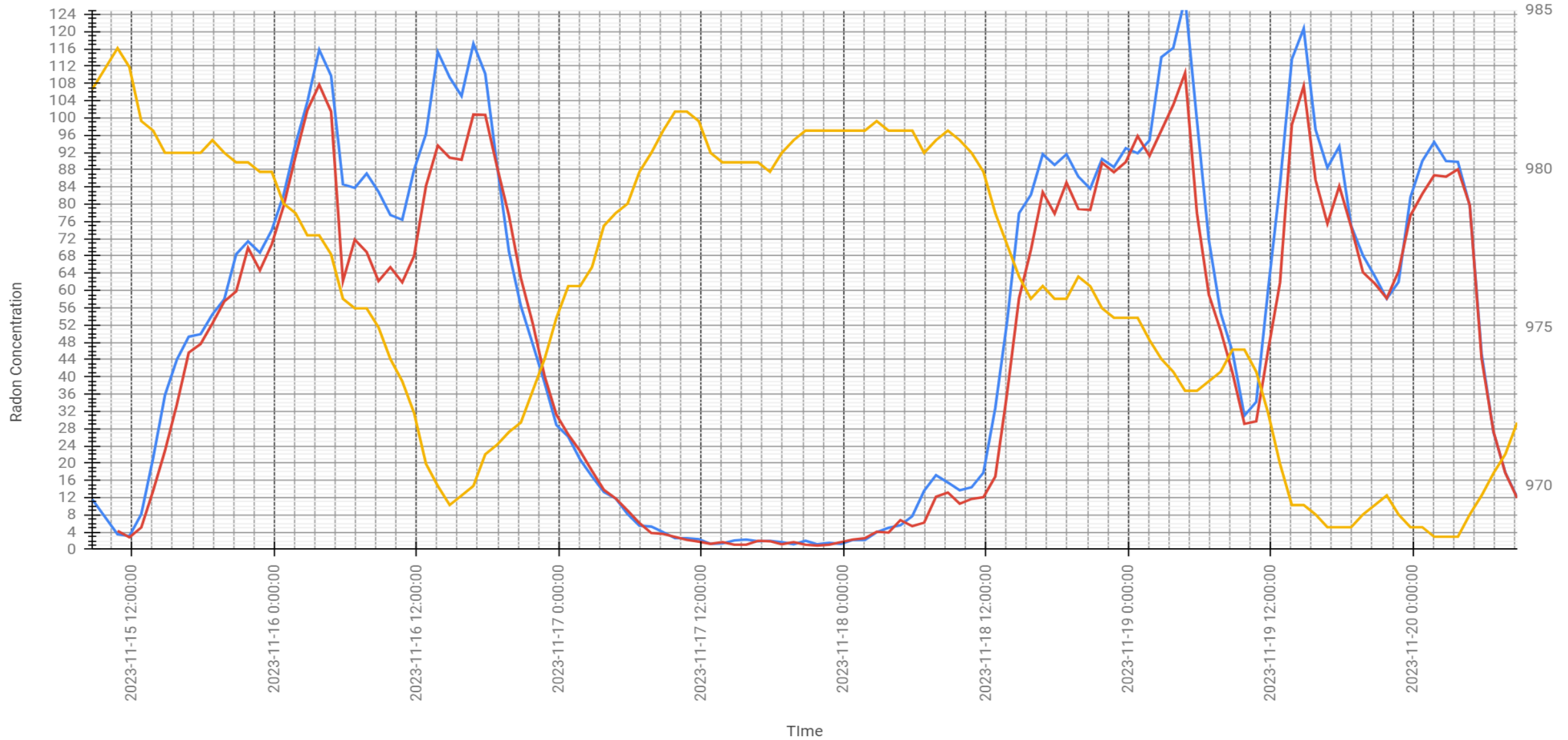
Note: Sensor/inlet n

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# Radon Concentrations and Barometric Pressure VS Time

Radon Center   Radon South   Atm Pressure



# 3) Look for Entry Routes From Under Adjacent Slabs.



Ecosense.io  
EcoTracker



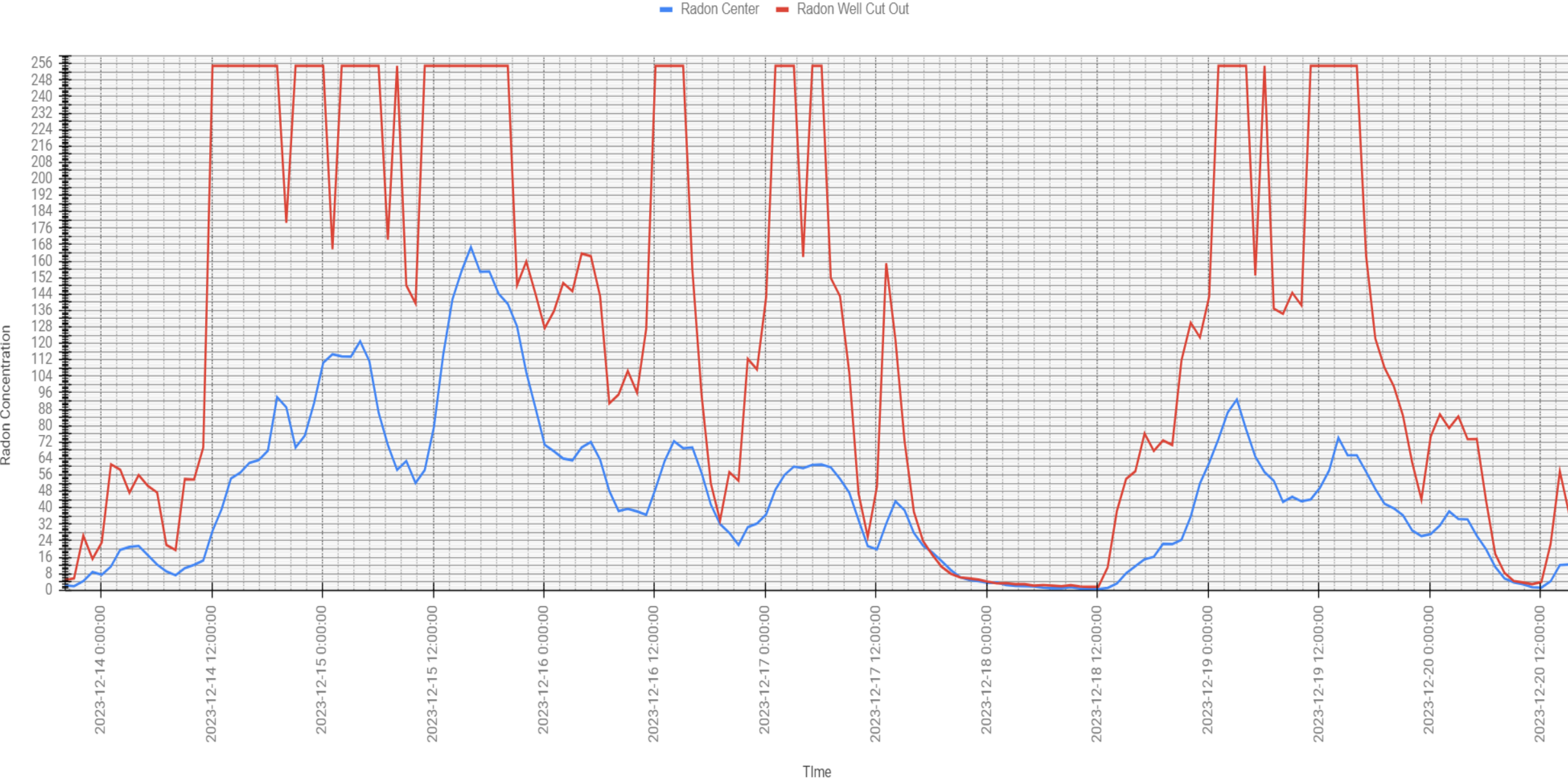
Radonsniffer.com  
CT007-R

### 3) Look for Entry Routes From Under Adjacent Slabs.



This front patio sits on top of the foundation wall and was found to be the singular radon entry point for this home.

# Radon Concentration in Center of Basement and in Well Cut Out vs Time



[https://youtube.com/shorts/3kSvNMN8T6o?si=E-rgDCOb\\_Bb1Z2i0](https://youtube.com/shorts/3kSvNMN8T6o?si=E-rgDCOb_Bb1Z2i0)