



# Radon Detection Specialists, Inc.

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*Love the Lungs You're With™*

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825 North Cass Ave, Suite 310, Westmont, IL 60559

Test Site: 123 Sesame Street  
Hinsdale, IL 60521

Date: 1/3/2015

SiteID: 75329

Invoice#: 64066

Dear Sara Schmidt,

Radon Detection Specialists is pleased to report the results of the radon screening measurement recently taken at the address shown above. Because the unique nature of real estate transactions involves multiple parties and financial interests, there are special testing protocols. This test was conducted with a continuous radon monitor and was set to be performed in accordance with the "Closed Building Conditions" established by the U.S. Environmental Protection Agency (EPA) and the Illinois Emergency Management Agency's Division of Nuclear Safety (DNS) guidelines.

Provided that "Closed Building Conditions" were properly maintained and the monitor was not enclosed or tampered with in any way, the results reported on the attached page will accurately reflect the radon levels present in the building during the test period. Since it is not possible for us to provide around-the-clock supervision of the test site, tampering can, and at times does, occur rendering the test results invalid. Our radon monitors are equipped with anti-tampering features and if it appears likely that tampering has occurred, we will discuss the situation in the Comments section of the Radon Test Report page.

In accordance with DNS regulations, screening measurements are made on each different type of foundation of the home. For example: A bi-level home with a basement, a crawl space, and a slab-on-grade room requires three monitors. If any of the monitors in a home average at or above the action level of 4.0 pCi/L, action is recommended to reduce radon levels.

We sincerely appreciate this opportunity to be of service. If you have any further questions concerning this test or its results, please feel free to call us at any time.

Yours truly,

Karl G. Weber  
Radon Detection Specialists, Inc.

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In Illinois, all radon measurement and mitigation personnel must be licensed. The Illinois Emergency Management Agency's (IEMA) Division of Nuclear Safety (DNS) program oversees all licensees.

Illinois Emergency Management Agency—Division of Nuclear Safety Radon Program

1035 Outer Park Drive

Springfield, IL 62704

217-782-1325

<http://www.state.il.us/idns>

# Test Results



RDS  
630-325-4443

Test Site: 123 Sesame Street  
Hinsdale, IL 60521  
Client: Sara Schmidt

Date: 1/3/2015  
SiteID: 75329  
Invoice#: 64066

Set-up By: Shanna Conklin RNIT2014224      Set-up Date: 1/1/2015      Set-up Time: 9:19 AM  
Pick-up By: Shanna Conklin RNIT2014224      Pick-up Date: 1/3/2015      Pick-up Time: 9:30 AM

## Monitor Results

Monitor Number	Placement of Testing Device	DNS Avg.	
CRMHW 160	Basement- Rec Room	4.9	pCi/L

- The test results of one or more radon monitors are at or ABOVE the DNS Action Guideline of 4.0 pCi/L. We recommend consultation with a remediation specialist.
- The test was set to be conducted during DNS/EPA Defined Closed House Conditions.

## Comments

**The DNS Recommends retesting this building every two years.**

Home Has:					Work Performed By:	
Sump	<input type="checkbox"/> None	<input type="checkbox"/> Not Viewable	<input checked="" type="checkbox"/> Unsealed	<input type="checkbox"/> Airtight	<input type="checkbox"/> Professional	<input type="checkbox"/> Homeowner
Crawlspace	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Not Viewable	<input type="checkbox"/> Concrete	<input type="checkbox"/> Gravel/Dirt	<input type="checkbox"/> Airtight	<input type="checkbox"/> Professional <input type="checkbox"/> Homeowner
Mitigation System	<input type="checkbox"/> None	<input type="checkbox"/> Passive New Construction (PNC)	<input checked="" type="checkbox"/> Active Soil Depressurization (ASD) <input checked="" type="checkbox"/> Observed functioning	Company: VSI		

\*Please note that it is impossible to recognize some passive systems by visual inspection, since they are often built into the house during construction and are not properly labeled.

License No:	RNM 98115
Install Date	11/6/1972
IEMA Tag No.	12059-2243

# Radon Test Data



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## Results

## Results Graph Form

## Results Graph Form

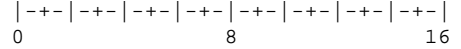
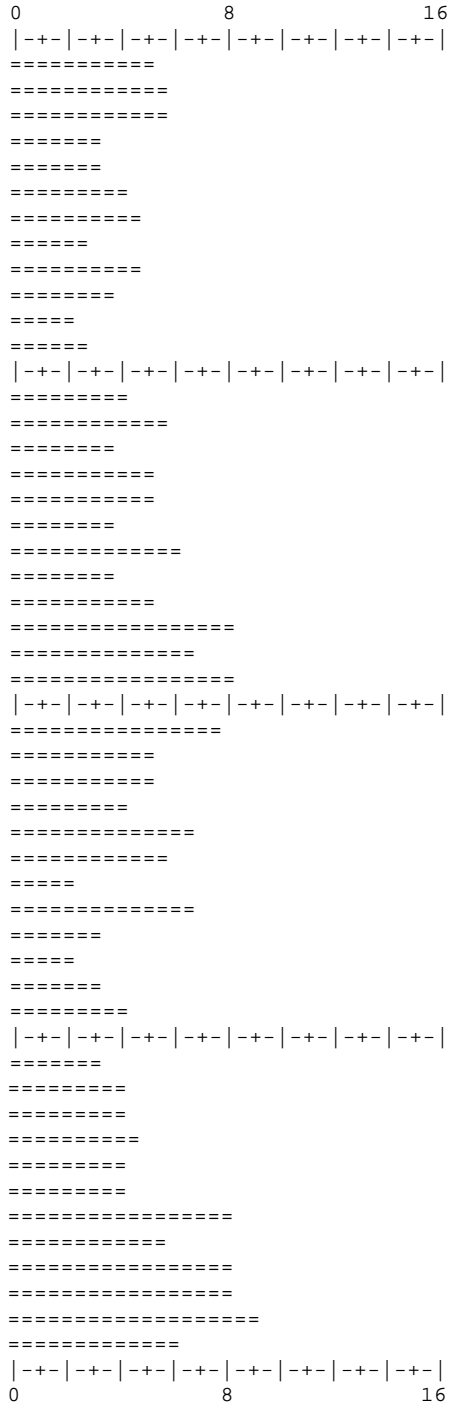
Professional  
Radon Monitor

Start Date : Jan 01 2015  
Start Time : 09:19 AM  
End Date : Jan 03 2015  
End Time : 09:30 AM  
Serial # : 160  
Location : 123 Sesame St

Data in pCi/l  
Time Interval 1 Hr

5.3	5.6	5.6
3.3	3.3	4.0
4.6	2.6	4.6
3.6	2.0	2.6
4.0	5.6	3.6
5.0	5.0	3.6
6.0	3.6	5.0
8.3	6.6	8.3
7.6	5.0	5.0
4.3	6.6	5.6
2.0	6.6	3.0
2.3	3.0	4.3
3.0	4.0	4.0
4.6	4.0	4.3
8.0	5.6	8.3
8.3	9.0	6.0

Overall Avg.= 4.9  
EPA Protocol Avg.= 4.9



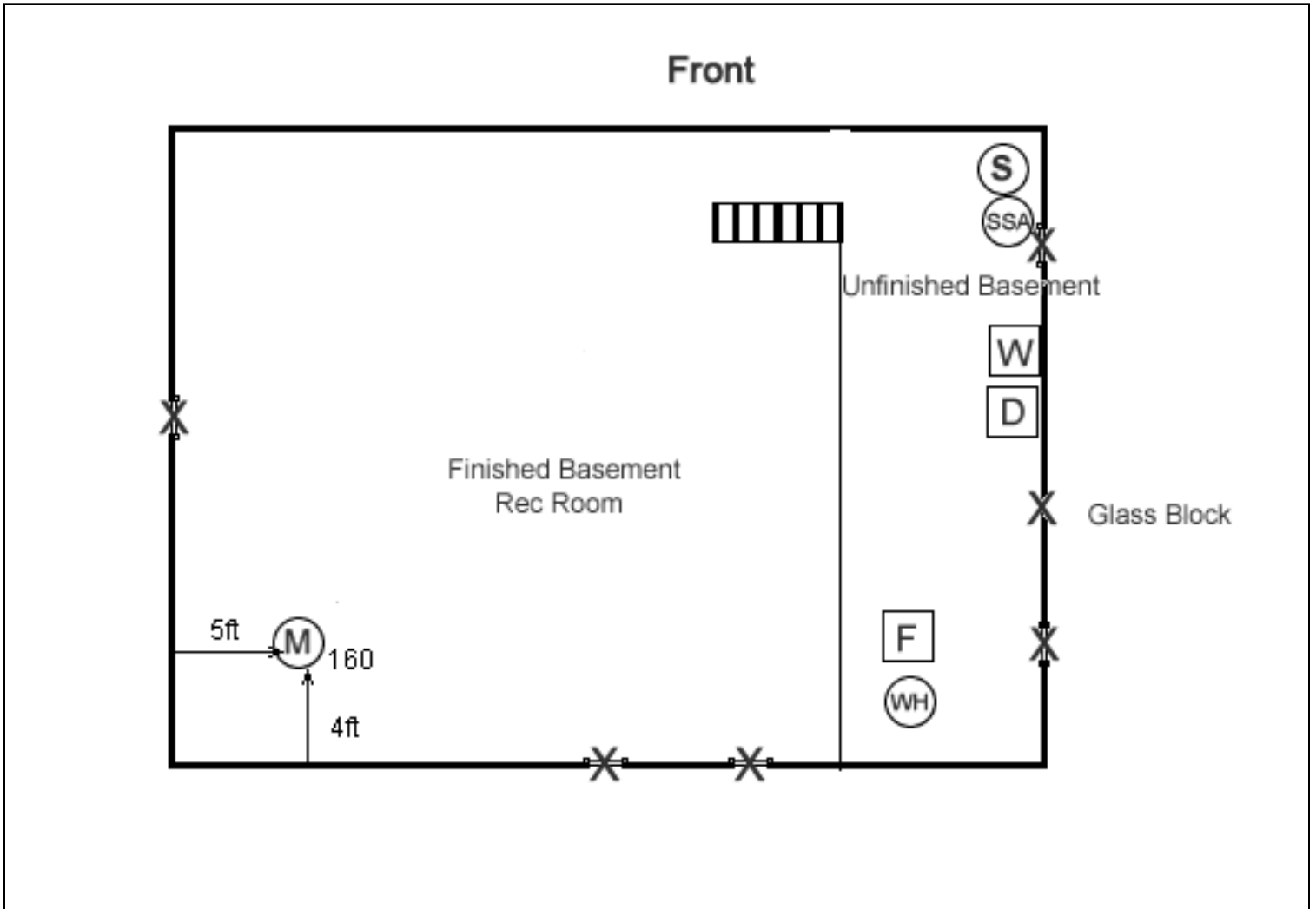
**IMPORTANT NOTICE:** There can be uncertainty with any radon measurement such as those caused by changes in the weather, building operations, statistical variations, and other factors. While we make every effort to maintain quality control in our procedures and provide reliable results, Radon Detection Specialists, Inc. makes no warranty, express or implied, as to the the absolute certainty of the test results. It is to be specifically understood therefore, that Radon Detection Specialists, Inc., its employees or agents shall not be liable for any claim from any source whatsoever of any nature or kind arising out of, connected with or sustained as a result of this or any radon test.

# Site Drawing



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123 Sesame Street Hinsdale, IL 60521



Key:

Monitor	(M) 11460	Active Mitigation System	(SSA)
Furnace	(F)	Passive Mitigation System	(SSP)
Water Heater	(WH)	Sealed Window/Door	⊗
Sump Pit	(S)	Fireplace	▭
Ejector Pit	(EP)	.....Drawing is not to scale..... ...Monitors are never placed in crawlspaces. They are placed in the rooms above....	

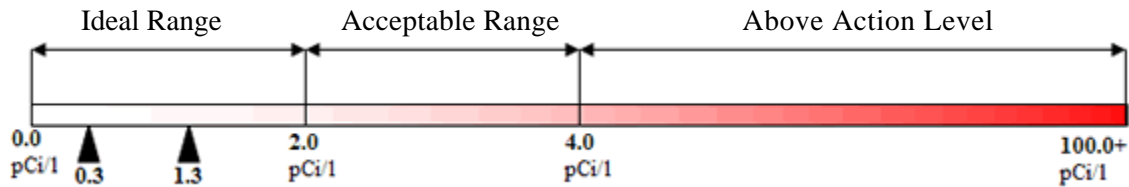
# What Do My Results Mean?



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Since radon is radioactive no amount of exposure can be called safe. The US EPA has defined what they consider to be an acceptable level, and the DNS has adopted the same standard. Elevated radon levels can easily be reduced. A home with a properly functioning active mitigation system will have the lowest radon level possible in that home. It is important to note that the seller of any home known to have tested above the Action Level of 4.0 pCi/L must disclose that information in a real estate transaction in Illinois.

## US EPA Radon Scale



National Avg outdoor level      National Avg Indoor level      **37% of homes across Chicagoland test at or above 4.0 pCi/L**

## What are the effects of Radon Exposure?

Long term exposure is known to cause lung cancer in humans. Ten percent of all lung cancer deaths annually are attributed to radon exposure.

Radon gas decays into radioactive particles that can get trapped in your lungs when you breathe. As they break down further, these particles release small bursts of energy. These can damage lung tissue and lead to lung cancer over the course of your lifetime. There are no immediate symptoms associated with radon exposure, and not everyone exposed to elevated levels of radon will develop lung cancer. The amount of time between exposure and the onset of the disease may be many years.

There is no evidence that children are more at risk from radon exposure, but minimizing lifetime exposure should start as early as possible.

## EPA Assessment of Risk from Radon in Homes

EPA 402-R-03-003 June 2003

Radon Level <sup>a</sup>	Lifetime Risk of Lung Cancer Death (per person) from Radon Exposure in Homes <sup>b</sup>			
	pCi/L	Never Smokers	Current Smokers <sup>c</sup>	General Population
20		3.6 out of 100	26 out of 100	11 out of 100
10		1.8 out of 100	15 out of 100	5.6 out of 100
8		1.5 out of 100	12 out of 100	4.5 out of 100
4		.73 out of 100	6.2 out of 100	2.3 out of 100
2		.37 out of 100	3.2 out of 100	1.2 out of 100
1.25		.23 out of 100	2.0 out of 100	.73 out of 100
0.4		.073 out of 100	.64 out of 100	.023 out of 100

**a** Assumes constant lifetime exposure in homes at these levels.

**b** Estimates are subject to uncertainties as discussed in Chapter VIII of the risk assessment..

**c** Note: BEIR VI did not specify excess relative risks for current smokers.