

# EXPERT

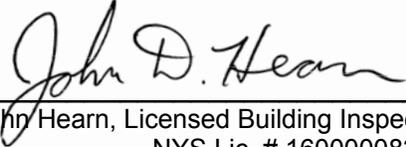
## BUILDING INSPECTION

### Radon Monitor Report

(SEE REVERSE SIDE FOR EXPLANATION)

**Client:** John Doe  
**Test Address:** 123 Main Street  
 Anytown, NY 12345

**Start Date:** 10/3/2008  
**Start Time:** 10:40 PM  
**Stop Date:** 10/6/2008  
**Stop Time:** 9:20 AM  
**Serial #:** 1/1719093  
**Location:** Basement-Photo 11

Signature:   
 John Hearn, Licensed Building Inspector  
 NYS Lic. # 16000008298

**Test Type (Marked with an X):**  
 Preliminary     Re-test     Post-Mitigation

Delayed Start (See back)

The measurement period: **58** hours.

Data in pCi/l      Time Interval - 1 hour  
 NYS ELAP LAB ID #11895

2.3	5.0	3.0	2.6	6.6	5.6
7.0	3.0	6.0	6.6	4.0	4.6
6.0	6.6	8.3	6.0	6.6	2.6
6.3	3.6	3.3	6.3		
4.6	4.6	3.3	<b>EPA Protocol Avg. = 4.3 +/- 4.0%</b>		
3.0	3.6	2.0			
3.6	1.0	1.6			
3.0	3.0	2.3			
2.0	5.3	3.3			
3.0	4.3	4.3			
5.3	6.3	6.0			
6.0	6.0	4.6			
6.3	6.0	3.0			
5.6	4.0	5.3			
2.3	4.6	0.6			
2.3	3.6	4.6			

# RADON GAS MEASUREMENT REPORT

(SEE REVERSE SIDE FOR RESULTS)

This is the report of a radon gas screening measurement. The measurement was performed using a Sun Nuclear 1027 continuous radon monitor (CAM), and was performed in conformance with test protocols established by the US Environmental Protection Agency method #402-R-92-004.

The report on the rear is the actual report that was obtained from the CAM upon completion of the measurement period.

During the measurement period radon gas measurements were taken 3 per hour and recorded once every ONE hour.

## Explanation of Report Data

**Tabular Data:** This portion of the report provides a numerical listing of the radon gas measurements that were made throughout the measurement period.

**Average:** This portion of the report gives the average radon gas concentration measured during the entire measurement period. This average is computed in two ways. The "Overall Average" is the simple average of all of the values listed in Tabular Data. The "EPA Average" is the simple average of all of the values listed in Tabular Data, except those values recorded during the first four hours of the measurement period. The "EPA Average" is computed in a manner consistent with the protocols cited above.

**Other Information:** In the printout, the letter "p" or "T" may appear next to a given value. The "p" indicates that during this measurement interval, the power was disconnected from the CAM. The "T" indicates that during this measurement interval, the CAM was disturbed or moved.

**Delayed Start:** Indicates that criteria for closed house conditions were not maintained at least 12 hours prior to placing the CRM device. Therefore, the raw data collected needs to be adjusted to reflect the new average based on the readings after the 1<sup>st</sup> 12 hours.

**Correction Factor:** Upon annual calibration of the CRM device, a correction factor is determined. This is then applied to the test results.

**Statement of Uncertainty:** Any radon testing equipment can be affected by conditions that are not measured by the device and a retest of the same location at a different time may yield different results. Therefore a level of uncertainty is established by applying the following formula: Uncertainty = 1/square root of counts \* 100. Counts equals the number of measurements taken by the monitor during the testing period.

The radon gas measurement was completed and a review of the readings indicates the testing procedures are satisfactory according to EPA protocol. Therefore, the average values contained in this report reflect the radon gas concentration at the time of the test. This test should not be construed as either predictive or supportive of a similar measurement conducted at another time in the same structure.

The radon gas measurement was completed and did not meet EPA protocol do to one or more of the following conditions: Closed house conditions were not met; inconsistent readings indicating tampering; unusual weather conditions/spikes.

The EPA recommends that any lived-in areas of a home or any areas that are suitable for occupancy without renovation be mitigated to below 4 pCi/l. There is uncertainty with any measurement due to statistical variations, daily and seasonal variations due to changes in the weather, and operation of the building. Additionally, possible interference with the necessary test conditions may influence the results. The radon concentration indicated by this short term test does not represent the annual average concentration of radon present in the dwelling tested but serves to indicate the potential for a radon level to which residents are exposed. If your average is equal to or greater than 4.0 pCi/l and less than 10.0 pCi/l, the EPA suggests you have a long term test performed. If your average is greater than 10.0 pCi/l but less than 20.0pCi/l, the EPA suggests you have a short term follow-up test performed. If the level is above 20.0 pCi/l and you are a NYS resident, you are advised to call the NYS Department of Health, Bureau of Environmental Radiation Protection (800-458-1158). You may also visit their web sight [www.epa.gov](http://www.epa.gov). There are also links to the EPA on our web sight [www.expertbuildinginspection.com](http://www.expertbuildinginspection.com)

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This is a Confidential Report, Any Use by Unauthorized Persons Prohibited  
The results detailed above relate only to the item(s) tested and to the sample(s) as received by the laboratory.