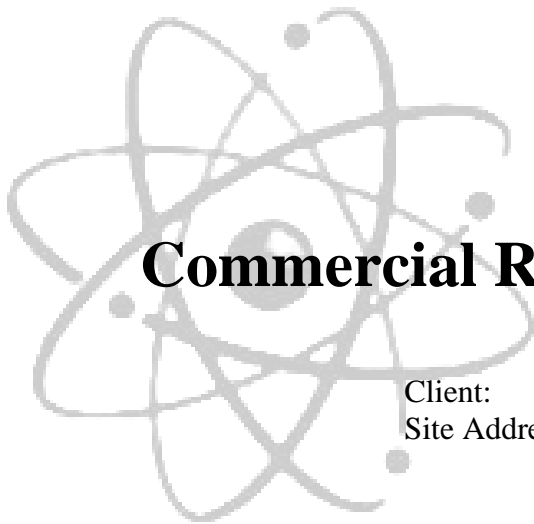


***Radon Detection Specialists, Inc.***

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## **Commercial Radon Survey Report**

Client: Community Consolidated School District 181  
Site Address: The Lane School  
500 N Elm St  
Hinsdale, IL 60521  
Survey Date: April 17, 2012 to April 19, 2012

**Initial Test**

RDS-R-002  
Prepared by: Kirsten Schmidt  
IL Professional Radon License RNI2006204  
Licensed for Residential and Commercial Radon Testing

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Client: C.C.S.D. 181  
Site Address: The Lane School, 500 N Elm Hinsdale, IL  
Survey Date: 4/17/12 to 4/19/12

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Client: C.C.S.D. 181  
The Lane School, 500 N Elm, Hinsdale, IL  
Survey Date: 4/17/12 to 4/19/12 page 3 of 16

## Basics of Radon and Radon Health Impacts

Radon is recognized by the United States Environmental Protection Agency (USEPA) as well as the scientific and medical communities as a Class A carcinogen, accounting for 15,000 – 22,000 lung cancer deaths annually. Exposure to radon gas is the leading cause of lung cancer among non-smokers.

Radon is a cancer-causing, naturally occurring, radioactive gas which comes from our soil. It can't be seen, smelled or tasted. The only way to know if the level of radon gas in your building exceeds the recommended action level of 4.0 pCi/L is to test. The Department of Nuclear Safety in Illinois requires those testing for radon in commercial buildings, schools and multi-family housing communities, as well as individual residences, to be licensed.

The amount of radon in the soil depends on soil chemistry, which naturally varies. Radon levels in the soil can range from a few hundred to several thousands of pCi/L (pico Curies per liter of air). The amount of radon that escapes from the soil and enters the building depends on the weather, soil porosity, soil moisture, and the suction within the building.

### **Radon is the leading cause of lung cancer among non-smokers.**

- There is no safe level of radon exposure. Any exposure causes some risk of developing cancer. In two 1999 reports, the National Academy of Sciences (NAS) concluded after an exhaustive review that radon is the second leading cause of lung cancer. Only cigarette smoking poses a greater risk. The NAS estimates that 15,000 to 22,000 Americans die every year from radon-related lung cancer. That's 10% of all lung cancer deaths annually.
- The alpha radiation from radon and its decay products cause damage to the sensitive lung tissue. Most of the radiation dose is not actually from radon itself, but rather from radon's chain of short-lived decay products that are inhaled and lodge in the airways of the lungs. These radionuclides decay quickly, producing other radionuclides that continue damaging the lung tissue. Those particles that are retained long enough release radiation and damage the surrounding lung tissue. It is this damage that can lead to lung cancer.

### **What other health risks are related to radon exposure?**

- No other respiratory ailments are linked to radon exposure
- There are preliminary studies that are looking at the link between radon exposure and the development of Parkinson's and Alzheimer's disease. These are early studies. For more information on this issue, please visit our website and read the press release.



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Client: C.C.S.D. 181  
The Lane School, 500 N Elm, Hinsdale, IL  
Survey Date: 4/17/12 to 4/19/12 page 4 of 16

## **Scope of Work Performed:**

At the request of Jim Prusa, Facilities Coordinator for District 181, RDS performed radon testing at The Lane School, located at 500 N Elm Street, Hinsdale, Illinois. This scope of work included a 2 day (short-term) radon test in all classrooms, offices, and common use spaces of the subject building.

A total of 71 devices were deployed, including one continuous radon monitor. Of the 70 passive devices deployed, 58 were single measurements, 8 were duplicates and 4 were blanks.

Testing was conducted from Tuesday, April 17, 2012 to Thursday, April 19, 2012. The devices used were electret ionization chambers (Eperms™) manufactured by RAD ELEC, Inc. and a continuous radon monitors manufactured by Sun Nuclear, model 1027. The report includes a table that details all device measurement results. Because radon levels fluctuate hourly, daily, weekly, seasonally and yearly, these results should not be used to estimate radon levels of rooms that were not tested, or to estimate future radon levels of rooms that were tested. Changes to the building components (both structural and mechanical) can effect radon concentrations. Duplicate devices have been averaged together and demonstrate the precision of the measurements.

The testing was conducted in accordance with the Illinois Emergency Management Agency Division of Nuclear Safety (IEMA) and the United States Environmental Protection Agency (USEPA) testing protocols for commercial radon measurements, the device manufacturer's recommendations, and the RDS Quality Assurance Plan.



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Client: C.C.S.D. 181  
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## Quality Assurance Plan for this Site

### Pre-Deployment Testing Strategy

Tests will be conducted in all classrooms, offices and common use spaces in the subject building. A minimum of 1 detector will be placed every 2000 square feet in open areas. Tests will not be conducted in rooms that are not frequently occupied such as closets, storage rooms, restrooms, hallways, and stairwells unless the space is considered alterable for future regular use, or the measurement is taken for diagnostic purposes.

### Materials and Methods

RDS will use electret ionization chambers and a continuous radon monitor to measure radon levels in the air in the above referenced property. The test will comply with all protocols set forth by IEMA, as well as the RDS Quality Assurance Plan. Duplicate tests will be conducted for not less than 10% of the total single devices placed to measure precision. Field blanks will be deployed for not less than 5% of the total number of tests deployed to measure background gamma radiation. Spike tests will be conducted at a minimum of 3% for the total amount of devices deployed (annually) to measure accuracy. The initial voltage reading will take place not more than 24 hours prior to deployment and the final voltage of the devices will be determined within 24 hours of retrieval.

RDS will locate devices in such a way to limit unintentional interference from building occupants. A walk-through inspection of the building prior to device deployment will allow RDS to document observations regarding radon entry mechanisms and general building pressure gradients. Test results will be reported in picoCuries per liter (pCi/L) of air. The effects of the HVAC system on radon progeny will not be evaluated and working level exposure (WL) will not be calculated during this test.



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Client: C.C.S.D. 181  
The Lane School, 500 N Elm, Hinsdale, IL  
Survey Date: 4/17/12 to 4/19/12 page 6 of 16

## Explanation of Device Results and Site Notes

Appendix A provides a detailed drawing showing device locations, if an appropriate and accurate drawing is provided by the client and dimensional device plotting is possible. If Appendix A is blank, please refer to the Device Placement columns provided in Appendix B (Room Use and Room Number) as an explanation of device locations.

Appendix B identifies all of the devices deployed and their reported radon levels. The results were determined using calculations supplied by the device manufacturer.

**The radon levels were BELOW the recommended action level in all locations tested, with the exception of Room M52 (Upper and Lower Boiler Room).** Air exchange rates for the facility were not available at the time of testing. Air exchange rates can affect the radon concentration based on dilution of radon gas.

### Notes Regarding Appendix B:

- All radon levels are expressed in picoCuries per liter (pCi/L) of air.
- The building was tested according to IEMA, and USEPA protocol in regard to device placement and analytical methods of calculating results.
- Tampering was not detected at the time the devices were retrieved, unless noted in the Comment Column.
- Devices were placed strategically to reduce accidental interference by building occupants.
- Duplicates are averaged together. It is the average of the two devices upon which decisions with regard to mitigation should be based.

## Site Notes:

1. The subject building was occupied and fully-functional during this initial short-term survey.
2. The subject building is a single-story, brick structure, built slab-on-grade.
3. The subject building was originally built in 1956. An addition was made to the structure in 2001.
4. The subject building has a small, lower boiler room area which contains one sump pump, on the south side of the structure.
5. There are two entrances to pipe tunnels in the subject building. One is in the small basement located on the south side, the other is a floor access panel located in the Upper MRC.



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Client: C.C.S.D. 181  
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Survey Date: 4/17/12 to 4/19/12 page 7 of 16

## Survey Summary

The radon levels found during this short-term survey were **BELOW** the USEPA and IEMA Action Level of 4.0 pCi/L, with the exception of Room M52 (Upper and Lower Boiler Room). Because this area is used for mechanical purposes only, this measurement was taken for diagnostic purposes and consultation with an Illinois licensed mitigation firm is not necessarily recommended.

However, should the use of this space change and/or become a regularly occupied room in any capacity, prior to occupancy, consultation with an Illinois licensed mitigation firm is recommended.

## Recommendations

Because different ventilation systems and varying seasonal pressures can influence radon levels, it is the recommendation of this testing professional to perform another short-term survey in two years, in an alternate season, to establish a seasonal baseline. If levels continue to be below the Action Level of 4.0 pCi/L, a further recommendation will be made to test the building every five years, again, in alternating seasons.

## A Note About Long-Term Testing

The USEPA and IEMA Action Level of 4.0 pCi/L is based upon an annual average exposure. As a matter of best practice in radon measurement, a long-term test is the best way to determine occupants' annual exposure, because radon levels vary hourly, daily, weekly, seasonally and over the years. Long-term testing (lasting 90 days to one year) provides a better understanding of building radon concentrations and the risks of exposure to radon. Should you choose to engage in long-term testing, please contact us for further details.



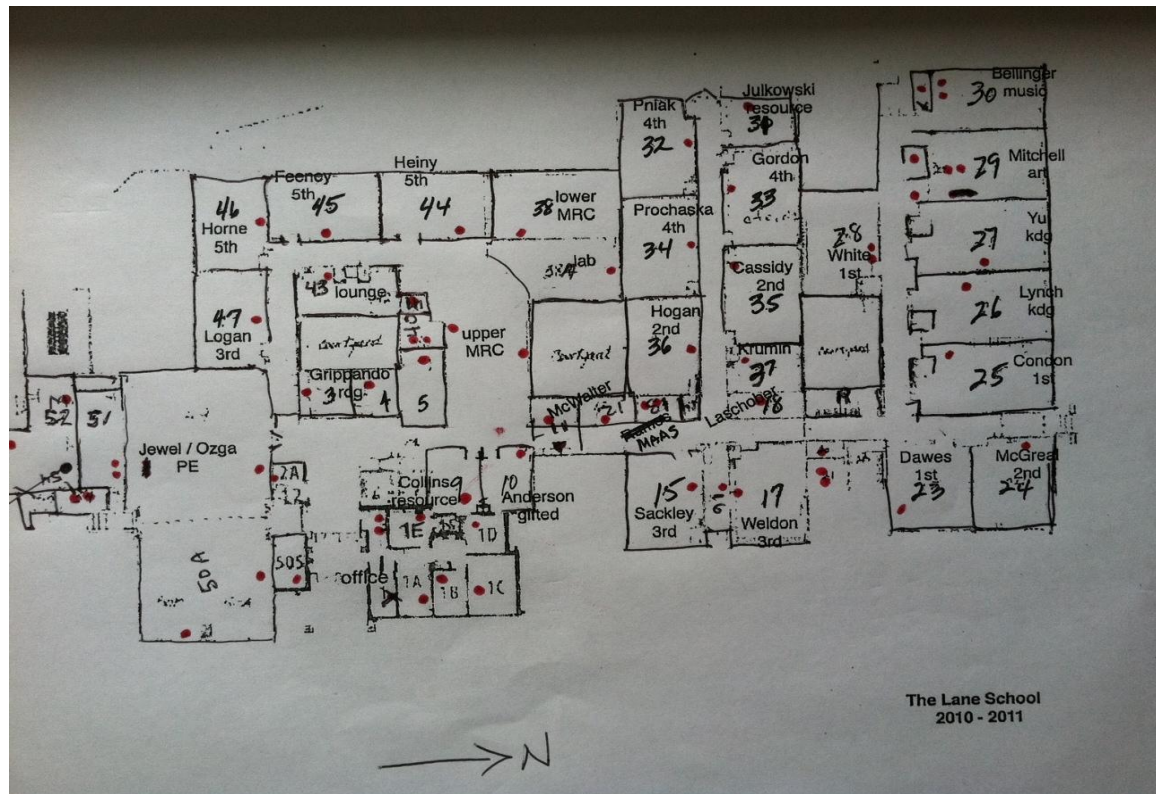
*Radon Detection Specialists* is licensed for both residential and commercial radon testing in Illinois. For more information regarding radon testing and mitigation practices in the state of Illinois, please visit the Illinois Emergency Management Agency Department of Nuclear Safety's website, [www.radon.illinois.gov](http://www.radon.illinois.gov), or call the state of Illinois Radon Program at 217-782-1325.



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Client: C.C.S.D. 181  
Site Address: The Lane School, 500 N Elm.  
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Survey Date: 4/17/12 to 4/19/12

## Appendix A: Site Plan Showing Device Locations



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## Appendix B: Individual Device Results Table

Electret	Device Placement			Start			Stop			Exposure Period	Radon Level	Control Measurement	Duplicate Device Avg. Radon Level	Comments
	Foundation	Room Use	Room No.	Date	Time	Volts	Date	Time	Volts	Days	(pCi/L)	Duplicate/Blank	(pCi/L)	
SGC524	Slab	PE Storage	50S	4/17/12	11:15 AM	613	4/19/12	12:40 PM	605	2.06	1.3			
SGI135	Slab	Gym - East	50	4/17/12	11:20 AM	746	4/19/12	12:40 PM	739	2.06	1.0			
SGC390	Slab	Gym - North	50A	4/17/12	11:20 AM	603	4/19/12	12:40 PM	595	2.06	1.3			
SGC339	Slab	Main Office	1A	4/17/12	11:20 AM	629	4/19/12	12:40 PM	623	2.06	0.8			
SGH792	Slab	Principal	1B	4/17/12	11:25 AM	772	4/19/12	12:40 PM	767	2.05	0.5			
SGI015	Slab	Conference Room	1C	4/17/12	11:25 AM	733	4/19/12	1:15 PM	729	2.08	0.3			
SGH872	Slab	Social Worker	1D	4/17/12	11:25 AM	756	4/19/12	1:15 PM	754	2.08	-0.2			Below the lower limits of detection
SGI026	Slab	Nurse	1E	4/17/12	11:25 AM	766	4/19/12	12:40 PM	760	2.05	0.8			
SGI184	Slab	Main Office - W	1	4/17/12	11:25 AM	732	4/19/12	12:40 PM	719	2.05	2.4			
SFS469	Slab	Main Office - W	1	4/17/12	11:25 AM	373	4/19/12	12:40 PM	362	2.05	2.2	Duplicate	2.3	

All radon levels are expressed in picoCuries per liter (pCi/L).  
 Results of duplicate devices are averaged to determine the radon level in that location.



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	Foundation	Room Use	Room No.	Date	Time	Volts	Date	Time	Volts	Days	(pCi/L)	Duplicate/Blank	(pCi/L)	
SGI134	Slab	Classroom	3	4/17/12	11:25 AM	728	4/19/12	12:45 PM	721	2.06	1.0			
SGH839	Slab	Classroom	4	4/17/12	11:25 AM	758	4/19/12	12:45 PM	751	2.06	1.0			
SGH860	Slab	Band	5	4/17/12	11:30 AM	749	4/19/12	12:45 PM	747	2.05	-0.2			Below the lower limits of detection
SGH643	Slab	Resource	9	4/17/12	11:30 AM	754	4/19/12	12:45 PM	750	2.05	0.3			
SGI007	Slab	Gifted	10	4/17/12	11:30 AM	757	4/19/12	12:45 PM	753	2.05	0.3			
SGC453	Slab	MRC Storage	11	4/17/12	11:30 AM	611	4/19/12	1:15 PM	607	2.07	0.3			
SGC447	Slab	North	MRC	4/17/12	11:35 AM	594	4/19/12	12:45 PM	591	2.05	0.1			
SGC626	Slab	Circulation Desk	MRC	4/17/12	11:35 AM	758	4/19/12	12:45 PM	751	2.05	1.0			
SGI164	Slab	MRC Office	40	4/17/12	11:35 AM	747	4/19/12	12:45 PM	742	2.05	0.5			
SGH973	Slab	MRC Office	40	4/17/12	11:35 AM	763	4/19/12	12:45 PM	757	2.05	0.8	Duplicate	0.7	

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	Foundation	Room Use	Room No.	Date	Time	Volts	Date	Time	Volts	Days	(pCi/L)	Duplicate/Blank	(pCi/L)	
SGH827	Slab	Computer Lab	38A	4/17/12	11:35 AM	739	4/19/12	12:45 PM	731	2.05	1.2			
SGH723	Slab	Computer Lab	38A	4/17/12	11:35 AM	762	4/19/12	12:45 PM	761	2.05	-0.4	Blank		
SGI085	Slab	Lower MRC	38	4/17/12	11:35 AM	756	4/19/12	12:45 PM	750	2.05	0.8			
SGH859	Slab	Classroom	44	4/17/12	11:50 AM	771	4/19/12	12:50 PM	767	2.04	0.3			
SGH789	Slab	Classroom	45	4/17/12	11:50 AM	752	4/19/12	12:50 PM	750	2.04	-0.2			Below the lower limits of detection
SDF066	Slab	Classroom	46	4/17/12	11:50 AM	357	4/19/12	12:50 PM	354	2.04	0.2			
SGC467	Slab	Lounge	43	4/17/12	11:55 AM	609	4/19/12	12:50 PM	604	2.04	0.6			
SGH853	Slab	Classroom	47	4/17/12	11:55 AM	754	4/19/12	12:50 PM	751	2.04	0.1			
SFS509	Slab	Gym/Stage	51	4/17/12	11:55 AM	302	4/19/12	12:50 PM	295	2.04	1.2			
SFS615	Slab	Gym/Stage	51	4/17/12	11:55 AM	272	4/19/12	12:50 PM	266	2.04	1.0	Duplicate	1.1	

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	Foundation	Room Use	Room No.	Date	Time	Volts	Date	Time	Volts	Days	(pCi/L)	Duplicate/Blank	(pCi/L)	
SGC391	Slab	Gym - North	49	4/17/12	12:00 PM	464	4/19/12	12:50 PM	457	2.03	1.1			
SFS451	Slab	Storage	54	4/17/12	12:00 PM	365	4/19/12	12:55 PM	357	2.04	1.4			
SFS484	Slab	Storage	54	4/17/12	12:00 PM	459	4/19/12	12:55 PM	458	2.04	-0.4	Blank		
SGC535	Slab	Lower Boiler Room	M52	4/17/12	12:00 PM	600	4/19/12	12:55 PM	547	2.04	12.2			
SDM742	Slab	Upper Boiler Room	M52	4/17/12	12:05 PM	542	4/19/12	12:50 PM	496	2.03	10.7			
SGH710	Slab	Kitchen	2A	4/17/12	12:05 PM	706	4/19/12	12:55 PM	698	2.03	1.3			
SFS555	Slab	Mechanical MDF	M41	4/17/12	12:05 PM	523	4/19/12	12:50 PM	519	2.03	0.4			
SGH734	Slab	Speech	12	4/17/12	12:10 PM	720	4/19/12	12:55 PM	714	2.03	0.8			
SGH651	Slab	Custodian Office	C13	4/17/12	12:10 PM	753	4/19/12	12:55 PM	748	2.03	0.5			
SGC452	Slab	Custodian Office	C13	4/17/12	12:10 PM	656	4/19/12	12:55 PM	652	2.03	0.3	Duplicate	0.4	

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	Foundation	Room Use	Room No.	Date	Time	Volts	Date	Time	Volts	Days	(pCi/L)	Duplicate/Blank	(pCi/L)	
SFS662	Slab	Classroom	15	4/17/12	12:10 PM	465	4/19/12	1:00 PM	461	2.03	0.4			
SFS496	Slab	Copy Room	16	4/17/12	12:10 PM	335	4/19/12	1:00 PM	332	2.03	0.2			
SFS511	Slab	Classroom	17	4/17/12	12:10 PM	245	4/19/12	1:00 PM	239	2.03	1.0			
SGC589	Slab	Classroom	24	4/17/12	12:15 PM	495	4/19/12	1:00 PM	484	2.03	2.1			
SGH716	Slab	Classroom	18	4/17/12	12:15 PM	738	4/19/12	1:00 PM	729	2.03	1.5			
SGC359	Slab	Classroom	23	4/17/12	12:20 PM	513	4/19/12	1:00 PM	498	2.03	3.1			
SGH821	Slab	Classroom	37	4/17/12	12:20 PM	776	4/19/12	1:00 PM	769	2.03	1.0			
SFS474	Slab	Classroom	35	4/17/12	12:20 PM	447	4/19/12	1:05 PM	440	2.03	1.1			
SFS519	Slab	Classroom	36	4/17/12	12:20 PM	247	4/19/12	1:05 PM	242	2.03	0.7			
SGC548	Slab	Classroom	36	4/17/12	12:20 PM	626	4/19/12	1:05 PM	614	2.03	0.6	Duplicate	0.7	

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SGC504	Slab	Classroom	33	4/17/12	12:20 PM	592	4/19/12	1:05 PM	584	2.03	1.3			
SDF231	Slab	Classroom	34	4/17/12	12:20 PM	222	4/19/12	1:05 PM	218	2.03	0.5			
SFS560	Slab	Classroom	31	4/17/12	12:25 PM	435	4/19/12	1:05 PM	423	2.03	2.4			
SGC461	Slab	Classroom	32	4/17/12	12:25 PM	592	4/19/12	1:05 PM	587	2.03	0.6			
SFS535	Slab	Classroom	32	4/17/12	12:25 PM	494	4/19/12	1:05 PM	494	2.03	-0.6	Blank		
SGC556	Slab	Classroom	25	4/17/12	12:25 PM	654	4/19/12	1:05 PM	647	2.03	1.0			
SFS664	Slab	Classroom	26	4/17/12	12:25 PM	353	4/19/12	1:05 PM	346	2.03	1.2			
SFS692	Slab	Classroom	27	4/17/12	12:25 PM	409	4/19/12	1:10 PM	402	2.03	1.2			
SFS501	Slab	Classroom	28	4/17/12	12:30 PM	232	4/19/12	1:10 PM	224	2.03	1.5			
SFS458	Slab	Classroom	28	4/17/12	12:30 PM	285	4/19/12	1:10 PM	279	2.03	1.0	Duplicate	1.3	

All radon levels are expressed in picoCuries per liter (pCi/L).  
 Results of duplicate devices are averaged to determine the radon level in that location.


**Radon Detection Specialists, Inc.**  
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Client: C.C.S.D. 181  
 Site Address: The Lane School, 500 N Elm.  
 City, State, ZIP Hinsdale, IL 60521  
 Survey Date: 4/17/12 to 4/19/12

## Appendix B: Individual Device Results Table

Electret	Device Placement			Start			Stop			Exposure Period	Radon Level	Control Measurement	Duplicate Device Avg. Radon Level	Comments
	Foundation	Room Use	Room No.	Date	Time	Volts	Date	Time	Volts	Days	(pCi/L)	Duplicate/Blank	(pCi/L)	
SFS661	Slab	Art	29	4/17/12	12:30 PM	401	4/19/12	1:10 PM	394	2.03	1.2			
SGC563	Slab	Art	29	4/17/12	12:30 PM	550	4/19/12	1:10 PM	544	2.03	0.9	Duplicate	1.1	
SFS463	Slab	Art Storage	29A	4/17/12	12:30 PM	515	4/19/12	1:10 PM	507	2.03	1.4			
SFS556	Slab	Kiln Room	29B	4/17/12	12:30 PM	364	4/19/12	1:10 PM	357	2.03	1.2			
SGC549	Slab	Music	30	4/17/12	12:30 PM	435	4/19/12	1:10 PM	424	2.03	2.2			
SFS682	Slab	Music	30	4/17/12	12:30 PM	338	4/19/12	1:10 PM	339	2.03	-0.9	Blank		
SGI123	Slab	Music Storage	30A	4/17/12	12:30 PM	754	4/19/12	1:10 PM	748	2.03	0.8			
SGC460	Slab	Custodian Office	C20	4/17/12	12:35 PM	592	4/19/12	1:00 PM	581	2.02	2.1			
SDF079	Slab	Mechanical	M21	4/17/12	12:35 PM	221	4/19/12	1:00 PM	207	2.02	3.2			
SFS709	Slab	Mechanical	M21	4/17/12	12:35 PM	381	4/19/12	1:00 PM	366	2.02	3.3	Duplicate	3.3	

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	Foundation	Room Use	Room No.	Date	Time	Volts	Date	Time	Volts	Days	(pCi/L)	Duplicate/Blank	(pCi/L)	
CRM 8060	Slab	Main Office	1	4/17/12	1:05 PM		4/19/12	1:15 PM			0.8			See hourly results attached

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