



School / Facility Radon Testing Report Form

Instructions: Submit one testing report form per-facility per-round of testing. Include the following as attachments:

Attachment 1- Summary Data Tables – containing the following: (see attached samples tables)

- Testing Results – lab/detector Identification, by room number/name (alpha-numeric order) as depicted on facility map/floor plan provided by the facility/school at the time of test device deployment;
- Summary Results – list of rooms by test result ≥ 2.0 -pCi/L; ≥ 2.7 -pCi/L; ≥ 4.0 -pCi/L; and ≥ 8.0 -pCi/L;
- QA/QC Results - (field blanks and duplicates) indicating location collected; trip and office blanks; and spike sample results;
- Invalid Measurement Locations – missed locations, missing and or damaged/compromised testing devices.

Attachment 2 – Laboratory Report(s)

Attachment 3 – Sampling Location Map(s) – indicating approximate location of samples, duplicates and blanks.

School Year: **23-24**

Facility:	Wilson Wims Elementary School
Address:	12520 Blue Sky Drive
	Clarksburg, MD 20871

Reason for Testing:	<input checked="" type="checkbox"/> Scheduled Re-Testing (2 or 5-year schedule) <input type="checkbox"/> Clearance Testing (Post-Mitigation) <input type="checkbox"/> System(s) Performance Testing (Post-Mitigation) <input type="checkbox"/> New Construction/Facility
Facility Current Radon Status:	<input type="checkbox"/> Active Mitigation (2-year regular schedule) <input checked="" type="checkbox"/> No Active Mitigation (5-year regular schedule) <input type="checkbox"/> Not Previously Tested
Round of Testing:	<input checked="" type="checkbox"/> Initial Testing -or- <input type="checkbox"/> Follow-up Testing
Testing Status:	<input checked="" type="checkbox"/> No Further Testing Needed -or- <input type="checkbox"/> Follow-Up Testing Required

Conclusion (When Testing Status is - No Further Testing Needed)

Mitigation -	Facility Radon Status:
<input checked="" type="checkbox"/> Not Required or Considered <input type="checkbox"/> Required (>8.0 -pCi/L) <input type="checkbox"/> Required (≥ 4.0 -pCi/L) <input type="checkbox"/> Consider (≥ 2.0 & <4.0 -pCi/L)	<input checked="" type="checkbox"/> No Change in Status <input type="checkbox"/> Active Mitigation (2-year regular schedule) <input type="checkbox"/> No Active Mitigation (5-year regular schedule)

Detector and Deployment

Detector/Device Type:	<input checked="" type="checkbox"/> Passive	<input checked="" type="checkbox"/> Charcoal Absorption (CAD)	<input type="checkbox"/> Alpha Track (ATD)	<input type="checkbox"/> Other
	<input type="checkbox"/> Continuous	<input type="checkbox"/> Electret ion Chamber (EIC)	<input type="checkbox"/> Electronic Integration (EID)	
<i>Other—Specify here:</i>				
Detector/Device Name:	Air Chek – Radon Test Kits			
Manufacturer:	Radon Lab			
Person(s) Deploying or Retrieving Test Devices and certification number			Organization/Company	
Evy Rahmey			KCI Technologies, Inc.	
<i>If noncertified individuals, the qualified measurement professional providing oversight -</i>				
Tyler McCleaf, CSP – Cert. #111004-RMP			KCI Technologies, Inc.	

Testing

<input checked="" type="checkbox"/> Short-Term	Length of Test (days):	3	Date of Deployment and Retrieval (mm/dd/yy):	02/06/2024
<input type="checkbox"/> Long-Term				02/09/2024
Does the test period include weekends, school breaks or holidays?				<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<i>If “Yes” please explain/detail in the space below:</i>				
Was HVAC operating under occupied conditions?				<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<i>If “No” please explain/detail in the space below:</i>				

Testing (continued)

	Detectors Deployed		
	Ground-Contact	Upper-Level(s)	Total
Test Locations ¹	46	8	54
Duplicates ²	5	1	6
Field Blanks ³	2	1	3
Grand Total			63

1 – include all detectors deployed (duplicates, field blanks); 1 detector per occupied (or intended to be occupied) ground-contact space ≤ 2,000-square feet; large spaces ≥ 2,000-square feet - 1 detector per 2,000-square feet or part thereof); and upper floors - 10% of all occupied or intended to be occupied rooms per floor (these are in addition to ground contact locations)

2 - 10% of all locations tested, per floor

3 – 5% of all locations tested, per floor

Quality Assurance / Quality Control (QA/QC)

A Quality Assurance plan that is consistent with ANSI/AARST MS-QA (Radon Measurement Systems Quality Assurance) was submitted under separate cover, and is available to review at the MCPS Radon Testing and Mitigation Program website. The following number of QA/QC samples are associated this facility.

Spike Samples ¹	6	Trip Blank(s) ²	1	Office Blank(s) ^{3,4}	1
----------------------------	---	----------------------------	---	--------------------------------	---

1 - 3% of EIC detectors; and 3% from each LOT of CAD and ATD detectors; a maximum of 6-spiked measurements per month for both EIC detectors and each LOT of CAD and ATD detectors.

2 – One per shipping container from start of detector deployment

3 – One per facility tested as devices are removed/allocated from the storage location for deployment;

4 - One additional blank, analyzed prior to deployment, for storage locations that have not been evaluated or monitored, for detectors that have been stored for more than 30-day durations.

Spike Sample Lab Results. Measured values are satisfactory, i.e., within ± 25% of the chamber's reference value.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Quality Control measurements comply with QA/QC requirements in the QA plan previously submitted?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

Quality Assurance / Quality Control (QA/QC) (continued)

If “No” to either, please describe any QC measurements that were missing or outside of control tolerances established in the QAP here:

Summary of Test Results¹ and Determination of Valid Measurements²

	Ground-Contact	Upper-Level(s)	Total
Number of test locations:	46	8	54
Number of locations ≥ 8.0 -pCi/L:	0	0	0
Number of locations ≥ 4.0 and ≤ 8 -pCi/L:	0	0	0
Number of locations ≥ 2.7 and ≤ 4 -pCi/L:	0	0	0
Number of locations ≥ 2.0 and ≤ 4 -pCi/L:	0	0	0
Number of missing required test locations ³ :	1	0	1
Percentage of missing test locations for the facility ^{4,5} :	2.1%	0	2.1%

1 – for locations with multiple test results, report consistent with Section 7.2(When Two Test Results Disagree) and 8.1.2 (Averaging) of ANSI/AARST MA-MFLB 2023 – Conducting Measurements of Radon in Multifamily, School, Commercial and Mix-Use Buildings;

2 - the allowance is to be calculated individually for Ground-Contact and Upper-Level(s) Test Locations;

3 – includes missed or inaccessible locations upon deployment or retrieval, damaged (not able to analyze) and missing detectors upon retrieval;

4 – if all valid measurements are < 4.0 -pCi/L and the total number of test locations are ≥ 18 , there is an allowance of $\leq 33\%$. If less than 18 test locations please review section 6.2 of the ANSI/AARST MA-MFLB 2023;

5 – if any valid measurements are ≥ 4.0 -pCi/L and the total number of test locations are ≥ 20 , there is an allowance of $\leq 25\%$ of the total locations tested. If less than 20 test locations please review section 6.2 of the ANSI/AARST MA-MFLB 2023.

Summary of Test Results¹ and Determination of Valid Measurements² (continued)

Were test devices deployed in all occupied and intended to be occupied rooms in contact with the ground, and, if applicable, 10% of upper floor rooms?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Were valid measurements obtained in all occupied and intended to be occupied rooms in contact with the ground, and, if applicable, 10% of upper floor rooms?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<i>If Yes to both above – then Testing Status – ‘No Further Testing Needed’ mark ‘NA’ below and complete Conclusions section</i>	
If No to either above , were all results obtained under 4.0-pCi/L and were there sufficient valid measurements obtained? ^{1,2} <i>If Yes – then Testing Status - ‘No Further Testing Needed’ complete Conclusion section</i> <i>If No, then Testing Status - ‘Follow-up Testing Required’ continue below</i>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA

1 – if all valid measurements are <4.0-pCi/L and the total number of test locations are ≥18, there is an allowance of ≤33%. If less than 18 test locations please review section 6.2 of the ANSI/AARST MA-MFLB 2023 – Conducting Measurements of Radon in Multifamily, School, Commercial and Mix-Use Buildings to determine the allowance;
 2 – if any valid measurements are ≥4.0-pCi/L and the total number of test locations are ≥20, there is an allowance of ≤25% of the total locations tested. If less than 20 test locations please review section 6.2 of the ANSI/AARST MA-MFLB 2023 – Conducting Measurements of Radon in Multifamily, School, Commercial and Mix-Use Buildings to determine the number the allowance.

- **If ‘No Further Testing Needed’** complete conclusions section on first page.
- **If ‘Follow-up Testing Required’** – complete Follow-up Testing described below and the conclusion section on the first page for only the valid measurements/results obtained

Follow-Up Testing (if required)

Required if –

- 1- Not enough valid results were obtained from a facility (table above);
- 2- Any results ≥ 4.0 – pCi/L; and
- 3- At the discretion of MCPS IAQ Staff

Follow-up Testing:

- 1- If an insufficient number of valid measurements obtained during initial round:
 - return to facility to test locations that require valid measurements
- 2- Follow-up Testing for valid measurements ≥ 4.0-pCi/L

Initial Result(s)	Procedure	Follow-up Result	Conclusion
≥ 4.0-pCi/L	1- Short-term follow-up test 2- Average the results of the two tests	≥4.0	Mitigation Required
		<4.0 but >2.0	Consider Mitigation
		<2.0	Not Required or Considered

- **Complete second School/Facility Radon Testing Report Form for only Follow-up Testing locations.**

Attachment 1:
Summary Data Tables

Table 1- Radon Testing Results		
Wilson Wims Elementary School		
Test Period: 02/06/2024 - 02/09/2024		
Kit Number	Room / Area	Result
11470080	1	< 0.3
11469608	100	0.5
11469602	102	0.6
11469603	104	< 0.3
11469637	104	< 0.3
11464572	106	< 0.3
11469613	106	< 0.3
11469610	107	< 0.3
11469612	107	< 0.3
11469604	111	0.6
11469616	111	0.6
11469605	113	0.5
11470082	121	< 0.3
11470088	121	< 0.3
11469656	124	< 0.3
11464585	125	< 0.3
11469632	126	< 0.3
11469629	128	0.6
11464595	134	< 0.3
11469623	135	0.6
11464576	139	< 0.3
11470087	140	0.5
11464574	144	< 0.3
11469631	150	< 0.3
11464582	151	0.5
11464596	154	< 0.3
11469630	158	< 0.3
11469621	160	0.5
11464591	164	0.7
11464594	168	0.8
11464580	172	< 0.3
11464587	172	< 0.3
11464598	172	< 0.3
11470093	174	0.5
11464578	178	< 0.3
11464600	180	< 0.3
11469611	186	0.6
11469620	187	< 0.3

Table 1- Radon Testing Results		
Wilson Wims Elementary School		
Test Period: 02/06/2024 - 02/09/2024		
Kit Number	Room / Area	Result
11469624	187	< 0.3
11469617	188	< 0.3
11469619	190	< 0.3
11469618	192	< 0.3
11464571	206	< 0.3
11464589	218	< 0.3
11464570	231	< 0.3
11464593	231	< 0.3
11470092	231	< 0.3
11464579	232	< 0.3
11464597	249	< 0.3
11470099	252	< 0.3
11464586	100C	< 0.3
11464583	100D	0.7
11469606	100E	< 0.3
11464590	100F	0.7
11469607	102C	0.5
11469601	102D	< 0.3
11464584	104 STAGE	< 0.3
11464581	108H	< 0.3
11464577	110B	< 0.3
11469609	111A	< 0.3
11469614	187A	< 0.3
11469615	187A	< 0.3
11469622	187A	< 0.3

Table 3 - QC Radon Testing Results			
Wilson Wims Elementary School			
Test Period: 02/06/2024 - 02/08/2024			
Kit Number	QC Type	Room / Area	Result
11469613	D	106	<0.3
11469616	D	111	0.6
11470082	D	121	<0.3
11464580	FB	172	<0.3
11464598	D	172	<0.3
11464570	FB	231	<0.3
11470092	D	231	<0.3
11469614	FB	187A	<0.3
11469622	D	187A	<0.3
11478304	OB	OFFICE BLANK	< 0.3
11478309	TB	TRAVEL BLANK	< 0.3

Attachment 2:
Laboratory Reports

Radon test result report for:

Kit #	Room Id	Started	Ended	pCi/L	Analyzed
11470080	1	2024-02-06 @ 12:00 pm	2024-02-09 @ 11:00 am	< 0.3	2024-02-12
11469608	100	2024-02-06 @ 12:00 pm	2024-02-09 @ 11:00 am	0.5 ± 0.3	2024-02-12
11464586	100C	2024-02-06 @ 12:00 pm	2024-02-09 @ 11:00 am	< 0.3	2024-02-12
11464583	100D	2024-02-06 @ 12:00 pm	2024-02-09 @ 11:00 am	0.7 ± 0.3	2024-02-12
11469606	100E	2024-02-06 @ 12:00 pm	2024-02-09 @ 10:00 am	< 0.3	2024-02-12
11464590	100F	2024-02-06 @ 12:00 pm	2024-02-09 @ 11:00 am	0.7 ± 0.3	2024-02-12
11469602	102	2024-02-06 @ 12:00 pm	2024-02-09 @ 11:00 am	0.6 ± 0.3	2024-02-12
11469607	102C	2024-02-06 @ 12:00 pm	2024-02-09 @ 10:00 am	0.5 ± 0.3	2024-02-12
11469601	102D	2024-02-06 @ 12:00 pm	2024-02-09 @ 11:00 am	< 0.3	2024-02-12
11469603	104	2024-02-06 @ 1:00 pm	2024-02-09 @ 11:00 am	< 0.3	2024-02-12
11469637	104	2024-02-06 @ 1:00 pm	2024-02-09 @ 11:00 am	< 0.3	2024-02-12
11464584	104 STAGE	2024-02-06 @ 1:00 pm	2024-02-09 @ 11:00 am	< 0.3	2024-02-12
11464572	106	2024-02-06 @ 1:00 pm	2024-02-09 @ 11:00 am	< 0.3	2024-02-12
11469613	106	2024-02-06 @ 1:00 pm	2024-02-09 @ 11:00 am	< 0.3	2024-02-12
11469612	107	2024-02-06 @ 12:00 pm	2024-02-09 @ 11:00 am	< 0.3	2024-02-12
11469610	107	2024-02-06 @ 12:00 pm	2024-02-09 @ 10:00 am	< 0.3	2024-02-12
11464581	108H	2024-02-06 @ 1:00 pm	2024-02-09 @ 11:00 am	< 0.3	2024-02-12
11464577	110B	2024-02-06 @ 1:00 pm	2024-02-09 @ 11:00 am	< 0.3	2024-02-12
11469616	111	2024-02-06 @ 12:00 pm	2024-02-09 @ 10:00 am	0.6 ± 0.3	2024-02-12
11469604	111	2024-02-06 @ 12:00 pm	2024-02-09 @ 11:00 am	0.6 ± 0.3	2024-02-12
11469609	111A	2024-02-06 @ 12:00 pm	2024-02-09 @ 11:00 am	< 0.3	2024-02-12
11469605	113	2024-02-06 @ 12:00 pm	2024-02-09 @ 10:00 am	0.5 ± 0.3	2024-02-12
11470088	121	2024-02-06 @ 1:00 pm	2024-02-09 @ 11:00 am	< 0.3	2024-02-12
11470082	121	2024-02-06 @ 1:00 pm	2024-02-09 @ 11:00 am	< 0.3	2024-02-12
11469656	124	2024-02-06 @ 12:00 pm	2024-02-09 @ 11:00 am	< 0.3	2024-02-12
11464585	125	2024-02-06 @ 1:00 pm	2024-02-09 @ 11:00 am	< 0.3	2024-02-12
11469632	126	2024-02-06 @ 12:00 pm	2024-02-09 @ 11:00 am	< 0.3	2024-02-12
11469629	128	2024-02-06 @ 12:00 pm	2024-02-09 @ 11:00 am	0.6 ± 0.3	2024-02-12
11464595	134	2024-02-06 @ 1:00 pm	2024-02-09 @ 10:00 am	< 0.3	2024-02-12
11469623	135	2024-02-06 @ 1:00 pm	2024-02-09 @ 11:00 am	0.6 ± 0.3	2024-02-12
11464576	139	2024-02-06 @ 1:00 pm	2024-02-09 @ 11:00 am	< 0.3	2024-02-12
11470087	140	2024-02-06 @ 1:00 pm	2024-02-09 @ 11:00 am	0.5 ± 0.3	2024-02-12
11464574	144	2024-02-06 @ 1:00 pm	2024-02-09 @ 11:00 am	< 0.3	2024-02-12
11469631	150	2024-02-06 @ 1:00 pm	2024-02-09 @ 11:00 am	< 0.3	2024-02-12
11464582	151	2024-02-06 @ 1:00 pm	2024-02-09 @ 11:00 am	0.5 ± 0.3	2024-02-12
11464596	154	2024-02-06 @ 1:00 pm	2024-02-09 @ 11:00 am	< 0.3	2024-02-12
11469630	158	2024-02-06 @ 1:00 pm	2024-02-09 @ 11:00 am	< 0.3	2024-02-12

Radon test result report for:

Kit #	Room Id	Started	Ended	pCi/L	Analyzed
11469621	160	2024-02-06 @ 1:00 pm	2024-02-09 @ 11:00 am	0.5 ± 0.3	2024-02-12
11464591	164	2024-02-06 @ 1:00 pm	2024-02-09 @ 11:00 am	0.7 ± 0.3	2024-02-12
11464594	168	2024-02-06 @ 1:00 pm	2024-02-09 @ 11:00 am	0.8 ± 0.3	2024-02-12
11464598	172	2024-02-06 @ 1:00 pm	2024-02-09 @ 11:00 am	< 0.3	2024-02-12
11464587	172	2024-02-06 @ 1:00 pm	2024-02-09 @ 11:00 am	< 0.3	2024-02-12
11464580	172	2024-02-06 @ 1:00 pm	2024-02-09 @ 11:00 am	< 0.3	2024-02-12
11470093	174	2024-02-06 @ 1:00 pm	2024-02-09 @ 11:00 am	0.5 ± 0.3	2024-02-12
11464578	178	2024-02-06 @ 1:00 pm	2024-02-09 @ 11:00 am	< 0.3	2024-02-12
11464600	180	2024-02-06 @ 1:00 pm	2024-02-09 @ 11:00 am	< 0.3	2024-02-12
11469611	186	2024-02-06 @ 12:00 pm	2024-02-09 @ 11:00 am	0.6 ± 0.3	2024-02-12
11469620	187	2024-02-06 @ 12:00 pm	2024-02-09 @ 11:00 am	< 0.3	2024-02-12
11469624	187	2024-02-06 @ 12:00 pm	2024-02-09 @ 11:00 am	< 0.3	2024-02-12
11469615	187A	2024-02-06 @ 12:00 pm	2024-02-09 @ 11:00 am	< 0.3	2024-02-12
11469622	187A	2024-02-06 @ 12:00 pm	2024-02-09 @ 10:00 am	< 0.3	2024-02-12
11469614	187A	2024-02-06 @ 12:00 pm	2024-02-09 @ 11:00 am	< 0.3	2024-02-12
11469617	188	2024-02-06 @ 12:00 pm	2024-02-09 @ 11:00 am	< 0.3	2024-02-12
11469619	190	2024-02-06 @ 12:00 pm	2024-02-09 @ 11:00 am	< 0.3	2024-02-12
11469618	192	2024-02-06 @ 12:00 pm	2024-02-09 @ 10:00 am	< 0.3	2024-02-12
11464571	206	2024-02-06 @ 2:00 pm	2024-02-09 @ 11:00 am	< 0.3	2024-02-12
11464589	218	2024-02-06 @ 2:00 pm	2024-02-09 @ 11:00 am	< 0.3	2024-02-12
11470092	231	2024-02-06 @ 2:00 pm	2024-02-09 @ 11:00 am	< 0.3	2024-02-12
11464593	231	2024-02-06 @ 2:00 pm	2024-02-09 @ 11:00 am	< 0.3	2024-02-12
11464570	231	2024-02-06 @ 2:00 pm	2024-02-09 @ 11:00 am	< 0.3	2024-02-12
11464579	232	2024-02-06 @ 2:00 pm	2024-02-09 @ 11:00 am	< 0.3	2024-02-12
11464597	249	2024-02-06 @ 2:00 pm	2024-02-09 @ 11:00 am	< 0.3	2024-02-12
11470099	252	2024-02-06 @ 2:00 pm	2024-02-09 @ 11:00 am	< 0.3	2024-02-12

February 13, 2024

**** LABORATORY ANALYSIS REPORT ****

Radon test result report for:

**KCI
MAIN**

Kit #	Room Id	Started	Ended	pCi/L	Analyzed
11470089	OB	2024-02-05 @ 8:00 am	2024-02-08 @ 12:00 pm	< 0.3	2024-02-12
11478304	OB	2024-02-06 @ 8:00 am	2024-02-09 @ 12:00 pm	< 0.3	2024-02-12
11470096	TB	2024-02-05 @ 8:00 am	2024-02-08 @ 12:00 pm	< 0.3	2024-02-12
11478309	TB	2024-02-06 @ 8:00 am	2024-02-09 @ 12:00 pm	< 0.3	2024-02-12

Air Chek 1936 Butler Bridge Rd, Mills River, NC 28759-3892 Phone: (828) 684-0893 Fax: (828) 684-8498

January 29, 2024

**** LABORATORY ANALYSIS REPORT ****

Radon test result report for:
STORAGE
KCI

Kit #	Room Id	Started	Ended	pCi/L	Analyzed
11635097	Storage	2024-01-07 @ 9:00 am	2024-01-11 @ 9:00 am	< 0.3	2024-01-15

Air Chek 1936 Butler Bridge Rd, Mills River, NC 28759-3892 Phone: (828) 684-0893 Fax: (828) 684-8498

EXPOSURE IN BOWSER-MORNER RADON CHAMBER

CLIENT KCI TECHNOLOGIES, Inc Job Number 213819

NOMINAL Conditions: Radon Conc 50.0 pCi/L Rel. Hum 28.9 % Temp. 69.1 F

Date Start: 2/23/24 Date Stop: 2/26/24 Date Start: _____ Date Stop: _____

Time Start: 0812 Time Stop: 0812 Time Start: _____ Time Stop: _____

Device No.'s: (6) CHAR BAGS Device No.'s: _____

11478400, 11477842, 11477845, _____

11477852, 11477996, 11477999 _____

E3 left

Date Start: _____ Date Stop: _____ Date Start: _____ Date Stop: _____

Time Start: _____ Time Stop: _____ Time Start: _____ Time Stop: _____

Device No.'s: _____ Device No.'s: _____

Date Start: _____ Date Stop: _____ Date Start: _____ Date Stop: _____

Time Start: _____ Time Stop: _____ Time Start: _____ Time Stop: _____

Device No.'s: _____ Device No.'s: _____

Note: All times are in 24-hour (military) notation, Eastern Standard Time (EST)
Background = 7 μ R/h Elevation = 820 ft

March 1, 2024

**** LABORATORY ANALYSIS REPORT ****

Radon test result report for:

FEB SK

MAIN

Kit #	Room Id	Started	Ended	pCi/L	Analyzed
11477842	NA	2024-02-23 @ 8:00 am	2024-02-26 @ 8:00 am	50.3 ± 4.0	2024-03-01
11477845	NA	2024-02-23 @ 8:00 am	2024-02-26 @ 8:00 am	55.3 ± 4.4	2024-03-01
11477852	NA	2024-02-23 @ 8:00 am	2024-02-26 @ 8:00 am	49.4 ± 4.0	2024-03-01
11477996	NA	2024-02-23 @ 8:00 am	2024-02-26 @ 8:00 am	49.8 ± 4.0	2024-03-01
11477999	NA	2024-02-23 @ 8:00 am	2024-02-26 @ 8:00 am	55.4 ± 4.4	2024-03-01
11478400	NA	2024-02-23 @ 8:00 am	2024-02-26 @ 8:00 am	47.0 ± 3.8	2024-03-01

Air Chek 1936 Butler Bridge Rd, Mills River, NC 28759-3892 Phone: (828) 684-0893 Fax: (828) 684-8498



Radon Test Kit Chain of Custody

Project Name: MCPS Radon – Testing February 6th to February 9th 2024

Name of Schools:

1. English Manor
2. MacDonald Knolls ECC
3. Watkins Mill ES
4. Wilson Wims ES

	Date	Initials
Radon Test Kits Deployed	02/06/2024	<i>AM</i>
Radon Test Kits Collected	02/09/2024	<i>AM</i>
Radon Test Kits Shipped to Lab*	02/09/2024	<i>AM</i>
Radon Test Kits Received by Lab*	02/13/2024	<i>AM</i>

*All samples sent to Air Check, Inc., 2 Saber Way, Ward Hill, MA 01835

Attachment 3:
Sampling Location Map



MCPS RADON TESTING – EXECUTIVE SUMMARY

Site Name	Wilson Wims Elementary
Date of Test Report	05/12/2022
Round of Testing	Initial Follow-up Post Remediation 2 Year Testing 5 Year Testing HVAC Upgrade Window Replacement New Addition New Facility
# Rooms Tested	2
# Rooms \geq 4.0 pCi/L	0
Lowest Value	<0.3 pCi/L
Highest Value	<0.3 pCi/L

Project Status

Current Project Status at this time: Testing completed; no further action needed



May 12, 2022

Mr. Brian Croyle, PG, CHMM
Environmental Specialist
Montgomery County Public Schools
Gaithersburg, MD 20879

Re: **Radon Testing Services**
KCI Job # 122108316

Location: Wilson Wims Elementary School
12520 Blue Sky Dr.
Clarksburg, MD 20871

Dear Mr. Croyle:

KCI Technologies, Inc. (KCI) is pleased to submit the following report to Montgomery County Public Schools (MCPS) pursuant to completing a “short-term” 3 day radon test for the Wilson Wims Elementary School, 12520 Blue Sky Dr. Clarksburg, MD 20871 (subject site).

Scope of Services:

KCI conducted radon testing at the subject site to evaluate indoor radon levels relative to the USEPA's recommended action level of 4.0 picocuries per Liter (pCi/L) - the level at which EPA recommends that schools take action to reduce the level. KCI conducted the radon testing in accordance with American Association of Radon Scientists and Technologists (AARST) *Protocol for Conducting Measurements of Radon and Radon Decay Products in Schools and Large Buildings*. A National Radon Proficiency Program (NRPP) Radon Measurement Specialist (certification #111004 RT) supervised the testing. Additional information on radon management and the health effects of radon exposure is available from <https://www.montgomeryschoolsmd.org> or www.epa.gov/radon.

KCI visited the site on March 22, 2022 and deployed five (5) activated charcoal (AC) radon test kits. KCI deployed radon test kits in all frequently-occupied ground contact rooms, and other areas, (if applicable) in accordance with AARST guidance.

KCI sampled the following locations during this follow-up test:

1. Rooms with missing test kits from the Radon 2022 testing period (i.e. test kit was deployed but not recovered),
2. Rooms with invalidated test kits from the Radon 2022 testing period (e.g. an open window in the room or disturbed test kit),
3. Rooms which were locked/inaccessible during the Radon 2022 testing period,
4. Rooms with elevated radon results (i.e. ≥ 3.5 pCi/L),
5. Rooms previously tested for radon but not tested in Radon 2022, and
6. Additional rooms that require testing (if applicable.)

A floor plan map of the building with the test locations is included as Attachment A of this report.

As a quality control measure, KCI also included duplicate samples, field blanks, lab transit blanks, and office blanks in accordance with AARST recommendations. In addition, KCI submitted test kits to Bowser-Morner, Inc. as spike samples. The spiked tests were exposed to a known radon concentration by Bowser-Morner prior to being returned to the laboratory for analysis.

KCI returned to the site on March 25, 2022 to retrieve the radon sampling test kits. KCI shipped all radon tests via overnight delivery to Airchek, Inc. for analysis by gamma-ray spectroscopy. Airchek, Inc. is a NRSB certified analytical laboratory for radon analysis (certification # ARL1402) located at 1936 Butler Bridge Road, Mills River, North Carolina.

Evaluation of Testing Conditions:

These tests represent:

- Follow-up to initial testing.

These tests were conducted to:

- Evaluate radon concentrations at the facility.

According to AARST, *Protocol for Conducting Measurements of Radon and Radon Decay Products in Schools and Large Buildings*, ideal testing conditions would be when the building is fully occupied and the heating system is active. For this test, the facility's HVAC system was operating in heating mode; therefore, KCI concludes that this test was conducted during ideal testing conditions.

KCI recorded observations of the following conditions in each room during the time of deployment and collection of the radon test kits:

- Indoor temperature,
- HVAC Operation,
- Dehumidifier operation,
- Humidifier operation,
- Ceiling fan operation, and
- Open windows or doors.

KCI also compiled weather data for the testing period and conducted observations of relevant field conditions. During the test period, weather records indicate low temperatures were in the low 40°Fs and high temperatures ranged from the low 50°Fs to the low 70°Fs. Maximum sustained winds ranged from 0-29 miles per hour. Average humidity was around 56% with 0.51 inches of precipitation (rain) was recorded during testing period.

Results:

The sampling locations and analytical results are listed on Table 1 (Attachment B). The quality control sample locations and analytical results are listed on Table 2 (Attachment B). Sampling locations and associated test kit identification numbers and relevant field observations are listed on Table 3 (Attachment B). The laboratory analytical results are included in Attachment C. Laboratory results and exposure data for the spike samples are also included in Attachment C.

The results of the radon test analysis indicated the following:

Radon Concentration	Room	Result
≥4.0 pCi/L	None	N/A
<4.0 pCi/L	See Attachment B	

Quality Control Samples	
Results of Blank Canisters:	The office blanks, and lab transit blanks had test results of less than the laboratory detection limit of 0.3 pCi/L.
Adequate Laboratory Precision?	Review of the duplicate sample analysis indicates that adequate laboratory measurement precision was achieved.
Spike Sample Analysis:	The Spike Sample analysis results indicate the laboratory is operating within statistical control limits.

Our professional services have been performed in accordance with customary principles and practices in the field of industrial hygiene and engineering. If you have any questions or comments regarding this report, please feel free to contact me at (410) 891-1769.

Sincerely,



Tyler P. McCleaf
Radon Measurement Provider
#111004 RT
KCI Technologies, Inc.

Attachments: A- Floor Plan with Test Locations
 B- Table 1-3, Radon Test Summary Spreadsheets
 C- Laboratory Analytical Results

ATTACHMENT A

Floor Plan With Test Locations

ATTACHMENT B

Radon Test Summary Spreadsheet

Table Notes:

AC- Activated Charcoal

ACI- Air Check, Inc.

D- Duplicate

FB- Field Blank

KCI- KCI Technologies, Inc.

OB- Office Blank

PM- Project Manager

OC- Quality Control

Table 1- Radon Testing Results		
Wilson Wims ES RT		
Test Period: 03/22/2022 - 03/25/2022		
Kit Number	Room / Area	Result
11139277	160	< 0.3
11139279	160	< 0.3
11139291	160	< 0.3
11139285	GYM	< 0.3
11139287	GYM	< 0.3

Table 2- Radon Testing Results			
Wilson Wims ES RT			
Test Period: 03/22/2022 - 03/25/2022			
Kit Number	QC Type	Room / Area	Result
11139279	D	160	< 0.3
11139277	FB	160	< 0.3
11139902	OB	OFFICE BLANK	< 0.3
11139928	TB	TRAVEL BLANK	< 0.3

ATTACHMENT C

Laboratory Analytical Results

March 28, 2022

**** LABORATORY ANALYSIS REPORT ****

Radon test result report for:

Kit #	Room Id	Started	Ended	pCi/L	Analyzed
11139277	160	2022-03-22 @ 10:00 am	2022-03-25 @ 10:00 am	< 0.3	2022-03-28
11139279	160	2022-03-22 @ 10:00 am	2022-03-25 @ 10:00 am	< 0.3	2022-03-28
11139291	160	2022-03-22 @ 10:00 am	2022-03-25 @ 10:00 am	< 0.3	2022-03-28
11139285	GYM	2022-03-22 @ 10:00 am	2022-03-25 @ 10:00 am	< 0.3	2022-03-28
11139287	GYM	2022-03-22 @ 10:00 am	2022-03-25 @ 10:00 am	< 0.3	2022-03-28

Air Chek 1936 Butler Bridge Rd, Mills River, NC 28759-3892 Phone: (828) 684-0893 Fax: (828) 684-8498

EXPOSURE IN BOWSER-MORNER RADON CHAMBER

CLIENT KCI Technologies, Inc. Job Number 204620

NOMINAL Conditions: Radon Conc 27.0 pCi/L Rel. Hum 50.1 % Temp. 70.0 F

Date Start: 3/18/22 Date Stop: 3/21/22 Date Start: _____ Date Stop: _____

Time Start: 0705 Time Stop: 0705 Time Start: _____ Time Stop: _____

Device No.'s: (5) Char Bags - Device No.'s: _____

11139367, 11139368, 11139371, _____

11139710, 11139717 _____

E3 Right

Date Start: _____ Date Stop: _____ Date Start: _____ Date Stop: _____

Time Start: _____ Time Stop: _____ Time Start: _____ Time Stop: _____

Device No.'s: _____ Device No.'s: _____

Date Start: _____ Date Stop: _____ Date Start: _____ Date Stop: _____

Time Start: _____ Time Stop: _____ Time Start: _____ Time Stop: _____

Device No.'s: _____ Device No.'s: _____

Note: All times are in 24-hour (military) notation, Eastern Standard Time (EST)
Background = 7 μ R/h Elevation = 820 ft

March 30, 2022

**** LABORATORY ANALYSIS REPORT ****

Radon test result report for:

MCPS - Spike Sample Lab Results. Measured values are satisfactory, i.e., within $\pm 25\%$ of the chamber's reference value (25.7 pCi/L).

Kit #	Room Id	Started	Ended	pCi/L	Analyzed
11139367	SK1	2022-03-18 @ 7:00 am	2022-03-21 @ 7:00 am	25.9 \pm 2.1	2022-03-30
11139368	SK2	2022-03-18 @ 7:00 am	2022-03-21 @ 7:00 am	23.9 \pm 2.0	2022-03-30
11139371	SK3	2022-03-18 @ 7:00 am	2022-03-21 @ 7:00 am	25.7 \pm 2.1	2022-03-30
11139710	SK4	2022-03-18 @ 7:00 am	2022-03-21 @ 7:00 am	26.4 \pm 2.1	2022-03-30
11139717	SK5	2022-03-18 @ 7:00 am	2022-03-21 @ 7:00 am	24.6 \pm 2.0	2022-03-30

Air Chek 1936 Butler Bridge Rd, Mills River, NC 28759-3892 Phone: (828) 684-0893 Fax: (828) 684-8498



Radon Test Kit Chain of Custody

Project Name: MCPS Radon – March 2022 Schools – Retesting

Name of Schools:

1. Herbert Hoover MS
2. Parkland MS
3. Redland MS
4. Rock Creek Valley ES
5. Tilden MS
6. Rockville HS
7. Wootton HS
8. Capt. James E. Daly ES
9. Clarksburg HS
10. Clearspring ES
11. Hallie Wells MS
12. Northwest HS
13. Paint Branch HS
14. Rocky Hills MS
15. Seneca Valley HS
16. Sherwood HS
17. Wilson Wims ES

	Date	Initials
Radon Test Kits Deployed	03/22/2022	BMM
Radon Test Kits Collected	03/25/2022	BMM
Radon Test Kits Shipped to Lab*	03/25/2022	BMM
Radon Test Kits Received by Lab*	03/28/2022	BMM

*All samples sent to Air Check, Inc., 1936 Butler Bridge Rd, Mills River, NC 28759



MCPS RADON TESTING – EXECUTIVE SUMMARY

Site Name	Wilson Wims Elementary School
Date of Test Report	4/6/2022
Round of Testing	Initial Follow-up Post Remediation 2 Year Testing 5 Year Testing HVAC Upgrade Window Replacement New Addition New Facility
# Rooms Tested	49
# Rooms \geq 4.0 pCi/L	0
Lowest Value	<0.3 pCi/L
Highest Value	1.8 pCi/L

Project Status:

Initial testing completed; Missing or Compromised kits need re-sampling.



April 6, 2022

Brian T. Croyle, PG, CHMM
Environmental Specialist
Montgomery County Public Schools
Gaithersburg, MD 20879

Re: **Radon Testing Services**
KCI Job # 122108316

Location: Wilson Wims ES
12520 Blue Sky Dr.
Clarksburg, MD 20871

Dear Mr. Croyle:

KCI Technologies, Inc. (KCI) is pleased to submit the following report to Montgomery County Public Schools (MCPS) pursuant to completing a “short-term” 3 day radon test for the Wilson Wims ES, located at 12520 Blue Sky Dr. Clarksburg, MD 20871 (subject site).

Scope of Services:

KCI conducted radon testing at the subject site to evaluate indoor radon levels relative to the USEPA's recommended action level of 4.0 picocuries per Liter (pCi/L) - the level at which EPA recommends that schools take action to reduce the level. KCI conducted the radon testing in accordance with American Association of Radon Scientists and Technologists (AARST) *Protocol for Conducting Measurements of Radon and Radon Decay Products in Schools and Large Buildings*. A National Radon Proficiency Program (NRPP) Radon Measurement Specialist (certification #111004 RT) supervised the testing. Additional information on radon management and the health effects of radon exposure is available from <https://www.montgomeryschoolsmd.org> or www.epa.gov/radon.

KCI visited the site on February 14, 2022 and deployed fifty three (53) activated charcoal (AC) radon test kits. KCI deployed radon test kits in all frequently-occupied ground contact rooms, and other areas, (if applicable) in accordance with AARST guidance.

A floor plan map of the building with the test locations is included as Attachment A of this report.

As a quality control measure, KCI also included duplicate samples, field blanks, lab transit blanks, and office blanks in accordance with AARST recommendations. In addition, KCI submitted test kits to Bowser-Morner, Inc. as spike samples. The spiked tests were exposed to a known radon concentration by Bowser-Morner prior to being returned to the laboratory for analysis.

KCI returned to the site on February 17, 2022 to retrieve the radon sampling test kits. KCI shipped all radon tests via overnight delivery to Airchek, Inc. for analysis by gamma-ray spectroscopy. Airchek, Inc.

is a NRSB certified analytical laboratory for radon analysis (certification # ARL1402) located at 1936 Butler Bridge Road, Mills River, North Carolina.

Evaluation of Testing Conditions:

These tests represent:

- Follow-up to initial testing.

These tests were conducted to:

- Evaluate radon concentration levels at the facility.

According to AARST, *Protocol for Conducting Measurements of Radon and Radon Decay Products in Schools and Large Buildings*, ideal testing conditions would be when the building is fully occupied and the heating system is active. For this test, the facility’s HVAC system was operating in heating mode; therefore, KCI concludes that this test was conducted during ideal testing conditions.

KCI recorded observations of the following conditions in each room during the time of deployment and collection of the radon test kits:

- Indoor temperature,
- HVAC Operation,
- Dehumidifier operation,
- Humidifier operation,
- Ceiling fan operation, and
- Open windows or doors.

KCI also compiled weather data for the testing period and conducted observations of relevant field conditions. During the test period, weather records indicate low temperatures were in the 20s and high temperatures ranged from the high 30s to the high 40s Fahrenheit. Maximum sustained winds ranged from 5-18 miles per hour. Average humidity was around 15% with 1.5 inches of precipitation (rain) was recorded during testing period.

Results:

The sampling locations and analytical results are listed on Table 1 (Attachment B). The quality control sample locations and analytical results are listed on Table 2 (Attachment B). Sampling locations and associated test kit identification numbers and relevant field observations are listed on Table 3 (Attachment B). The laboratory analytical results are included in Attachment C. Laboratory results and exposure data for the spike samples are also included in Attachment C.

The results of the radon test analysis indicated the following:

Radon Concentration	Room	Result
≥4.0 pCi/L	None	N/A
<4.0 pCi/L	See Attachment B	

Quality Control Samples	
Results of Blank Canisters:	The office blanks, and lab transit blanks had test results of less than the laboratory detection limit of 0.3 pCi/L.
Adequate Laboratory Precision?	Review of the duplicate sample analysis indicates that adequate laboratory measurement precision was achieved.
Spike Sample Analysis:	The Spike Sample analysis results indicate the laboratory is operating within statistical control limits.

Our professional services have been performed in accordance with customary principles and practices in the field of industrial hygiene and engineering. If you have any questions or comments regarding this report, please feel free to contact me at (410) 891-1769.

Sincerely,



Tyler P. McCleaf
Radon Measurement Provider
#111004 RT
KCI Technologies, Inc.

Attachments: A- Floor Plan with Test Locations
 B- Table 1-3, Radon Test Summary Spreadsheets
 C- Laboratory Analytical Results

ATTACHMENT A

Floor Plan With Test Locations

ATTACHMENT B

Radon Test Summary Spreadsheet

Table Notes:

AC- Activated Charcoal

ACI- Air Check, Inc.

D- Duplicate

FB- Field Blank

KCI- KCI Technologies, Inc.

OB- Office Blank

PM- Project Manager

OC- Quality Control

Table 1- Radon Testing Results		
Wilson Wims ES		
Test Period: 02/14/2022 - 02/17/2022		
Kit Number	Room / Area	Result
11124007	111	0.6
11124008	111	< 0.3
11124019	111	< 0.3
11124026	111	< 0.3
11124017	113	< 0.3
11124012	121	0.9
11124004	122	0.6
11124001	124	0.7
11124009	125	< 0.3
11124005	128	1.8
11124006	128	1.3
11122383	133	< 0.3
11122399	133	< 0.3
11124010	134	1.0
11122393	135	0.6
11122395	139	< 0.3
11124011	140	0.6
11124003	144	0.7
11124002	150	0.7
11122378	151	< 0.3
11122394	151	0.5
11122397	154	< 0.3
11122398	158	< 0.3
11122391	164	0.8
11122392	164	< 0.3
11122390	168	1.0
11122366	172	< 0.3
11122400	174	0.5
11122385	178	< 0.3
11122386	180	< 0.3
11124016	186	0.8
11124015	188	< 0.3
11124023	190	0.7
11124024	192	< 0.3
11124031	235	< 0.3
11124030	249	< 0.3
11124032	250	< 0.3
11124029	252	< 0.3
11122373	100D	0.8
11122389	100E	1.6
11122396	100F	1.4
11124021	187A	< 0.3

Table 1- Radon Testing Results		
Wilson Wims ES		
Test Period: 02/14/2022 - 02/17/2022		
Kit Number	Room / Area	Result
11122381	BSM OFFICE	0.8
11124013	CAFETERIA	0.8
11124014	CAFETERIA	0.7
11124022	GYM	0.7
11122387	HEALTH ROOM	0.7
11122388	HEALTH ROOM OFFICE	1.3
11124020	KITCHEN OFFICE	< 0.3
11122374	MAIN OFFICE	1.0
11124025	MEDIA CENTER	0.9
11124018	MEDIACENTER	< 0.3
11122382	STAFF LOUNGE	< 0.3

Table 2- Radon Testing Results			
Wilson Wims ES			
Test Period: 02/14/2022 - 02/17/2022			
Kit Number	QC Type	Room / Area	Result
11122378	D	151	< 0.3
11122391	D	164	0.8
11122399	FB	133	< 0.3
11124005	D	128	1.8
11124019	D	111	< 0.3
11124026	FB	111	< 0.3
11124027	D	Gym	NA
11107385	OB	OFFICE BLANK	< 0.3
11123161	TB	TRAVEL BLANK	< 0.3

ATTACHMENT C

Laboratory Analytical Results

Radon test result report for:
WILSON WILSON ES
MAIN

Kit #	Room Id	Started	Ended	pCi/L	Analyzed
11122373	100D	2022-02-14 @ 12:00 pm	2022-02-17 @ 8:00 am	0.8 ± 0.3	2022-02-21
11122389	100E	2022-02-14 @ 12:00 pm	2022-02-17 @ 8:00 am	1.6 ± 0.4	2022-02-21
11122396	100F	2022-02-14 @ 12:00 pm	2022-02-17 @ 8:00 am	1.4 ± 0.4	2022-02-21
11124007	111	2022-02-14 @ 1:00 pm	2022-02-17 @ 9:00 am	0.6 ± 0.3	2022-02-21
11124019	111	2022-02-14 @ 1:00 pm	2022-02-17 @ 9:00 am	< 0.3	2022-02-21
11124008	111	2022-02-14 @ 1:00 pm	2022-02-17 @ 9:00 am	< 0.3	2022-02-21
11124026	111	2022-02-14 @ 1:00 pm	2022-02-17 @ 9:00 am	< 0.3	2022-02-21
11124017	113	2022-02-14 @ 1:00 pm	2022-02-17 @ 9:00 am	< 0.3	2022-02-21
11124012	121	2022-02-14 @ 1:00 pm	2022-02-17 @ 9:00 am	0.9 ± 0.3	2022-02-21
11124004	122	2022-02-14 @ 1:00 pm	2022-02-17 @ 9:00 am	0.6 ± 0.3	2022-02-21
11124001	124	2022-02-14 @ 1:00 pm	2022-02-17 @ 9:00 am	0.7 ± 0.4	2022-02-21
11124009	125	2022-02-14 @ 1:00 pm	2022-02-17 @ 9:00 am	< 0.3	2022-02-21
11124005	128	2022-02-14 @ 1:00 pm	2022-02-17 @ 9:00 am	1.8 ± 0.4	2022-02-21
11124006	128	2022-02-14 @ 1:00 pm	2022-02-17 @ 9:00 am	1.3 ± 0.4	2022-02-21
11122383	133	2022-02-14 @ 1:00 pm	2022-02-17 @ 8:00 am	< 0.3	2022-02-21
11122399	133	2022-02-14 @ 1:00 pm	2022-02-17 @ 8:00 am	< 0.3	2022-02-21
11124010	134	2022-02-14 @ 1:00 pm	2022-02-17 @ 9:00 am	1.0 ± 0.4	2022-02-21
11122393	135	2022-02-14 @ 1:00 pm	2022-02-17 @ 8:00 am	0.6 ± 0.3	2022-02-21
11122395	139	2022-02-14 @ 1:00 pm	2022-02-17 @ 8:00 am	< 0.3	2022-02-21
11124011	140	2022-02-14 @ 1:00 pm	2022-02-17 @ 9:00 am	0.6 ± 0.3	2022-02-21
11124003	144	2022-02-14 @ 1:00 pm	2022-02-17 @ 9:00 am	0.7 ± 0.3	2022-02-21
11124002	150	2022-02-14 @ 1:00 pm	2022-02-17 @ 9:00 am	0.7 ± 0.4	2022-02-21
11122378	151	2022-02-14 @ 1:00 pm	2022-02-17 @ 8:00 am	< 0.3	2022-02-21
11122394	151	2022-02-14 @ 1:00 pm	2022-02-17 @ 8:00 am	0.5 ± 0.3	2022-02-21
11122397	154	2022-02-14 @ 1:00 pm	2022-02-17 @ 9:00 am	< 0.3	2022-02-21
11122398	158	2022-02-14 @ 1:00 pm	2022-02-17 @ 9:00 am	< 0.3	2022-02-21
11122391	164	2022-02-14 @ 1:00 pm	2022-02-17 @ 8:00 am	0.8 ± 0.4	2022-02-21
11122392	164	2022-02-14 @ 1:00 pm	2022-02-17 @ 8:00 am	< 0.3	2022-02-21
11122390	168	2022-02-14 @ 1:00 pm	2022-02-17 @ 8:00 am	1.0 ± 0.3	2022-02-21
11122366	172	2022-02-14 @ 1:00 pm	2022-02-17 @ 8:00 am	< 0.3	2022-02-21
11122400	174	2022-02-14 @ 1:00 pm	2022-02-17 @ 8:00 am	0.5 ± 0.3	2022-02-21
11122385	178	2022-02-14 @ 1:00 pm	2022-02-17 @ 8:00 am	< 0.3	2022-02-21
11122386	180	2022-02-14 @ 1:00 pm	2022-02-17 @ 8:00 am	< 0.3	2022-02-21
11124016	186	2022-02-14 @ 2:00 pm	2022-02-17 @ 9:00 am	0.8 ± 0.3	2022-02-21
11124021	187A	2022-02-14 @ 2:00 pm	2022-02-17 @ 9:00 am	< 0.3	2022-02-21
11124015	188	2022-02-14 @ 2:00 pm	2022-02-17 @ 9:00 am	< 0.3	2022-02-21
11124023	190	2022-02-14 @ 2:00 pm	2022-02-17 @ 9:00 am	0.7 ± 0.3	2022-02-21

Radon test result report for:
WILSON WILSON ES
MAIN

Kit #	Room Id	Started	Ended	pCi/L	Analyzed
11124024	192	2022-02-14 @ 2:00 pm	2022-02-17 @ 9:00 am	< 0.3	2022-02-21
11124031	235	2022-02-14 @ 2:00 pm	2022-02-17 @ 9:00 am	< 0.3	2022-02-21
11124030	249	2022-02-14 @ 2:00 pm	2022-02-17 @ 9:00 am	< 0.3	2022-02-21
11124032	250	2022-02-14 @ 2:00 pm	2022-02-17 @ 9:00 am	< 0.3	2022-02-21
11124029	252	2022-02-14 @ 2:00 pm	2022-02-17 @ 9:00 am	< 0.3	2022-02-21
11122381	BSM OFFICE	2022-02-14 @ 1:00 pm	2022-02-17 @ 9:00 am	0.8 ± 0.4	2022-02-21
11124014	CAFETERIA	2022-02-14 @ 1:00 pm	2022-02-17 @ 9:00 am	0.7 ± 0.3	2022-02-21
11124013	CAFETERIA	2022-02-14 @ 1:00 pm	2022-02-17 @ 9:00 am	0.8 ± 0.4	2022-02-21
11122387	HEALTH ROOM	2022-02-14 @ 12:00 pm	2022-02-17 @ 8:00 am	0.7 ± 0.3	2022-02-21
11122388	HEALTH ROOM OFFICE	2022-02-14 @ 12:00 pm	2022-02-17 @ 8:00 am	1.3 ± 0.4	2022-02-21
11124020	KITCHEN OFFICE	2022-02-14 @ 1:00 pm	2022-02-17 @ 9:00 am	< 0.3	2022-02-21
11122374	MAIN OFFICE	2022-02-14 @ 12:00 pm	2022-02-17 @ 8:00 am	1.0 ± 0.3	2022-02-21
11124025	MEDIA CENTER	2022-02-14 @ 1:00 pm	2022-02-17 @ 9:00 am	0.9 ± 0.4	2022-02-21
11124018	MEDIACENTER	2022-02-14 @ 1:00 pm	2022-02-17 @ 9:00 am	< 0.3	2022-02-21
11122382	STAFF LOUNGE	2022-02-14 @ 1:00 pm	2022-02-17 @ 9:00 am	< 0.3	2022-02-21

February 21, 2022

**** LABORATORY ANALYSIS REPORT ****

Radon test result report for:
WILSON WIMS ES
MAIN

Kit #	Room Id	Started	Ended	pCi/L	Analyzed
11124022	GYM	2022-02-14 @ 9:00 am	2022-02-17 @ 10:00 am	0.7 ± 0.3	2022-02-21

Air Chek 1936 Butler Bridge Rd, Mills River, NC 28759-3892 Phone: (828) 684-0893 Fax: (828) 684-8498

EXPOSURE IN BOWSER-MORNER RADON CHAMBER

CLIENT KCI Technologies, Inc. Job Number 204186

NOMINAL Conditions: Radon Conc 25.8 pCi/L Rel. Hum 50.1 % Temp. 70.9 F

Date Start: 2/18/22 Date Stop: 2/21/22 Date Start: _____ Date Stop: _____

Time Start: 0911 Time Stop: 0911 Time Start: _____ Time Stop: _____

Device No.'s: (3) Char Bags -
11113484, 1112998, 20107126 Device No.'s: _____

23 Right

Date Start: _____ Date Stop: _____ Date Start: _____ Date Stop: _____

Time Start: _____ Time Stop: _____ Time Start: _____ Time Stop: _____

Device No.'s: _____ Device No.'s: _____

Date Start: _____ Date Stop: _____ Date Start: _____ Date Stop: _____

Time Start: _____ Time Stop: _____ Time Start: _____ Time Stop: _____

Device No.'s: _____ Device No.'s: _____

**Note: All times are in 24-hour (military) notation, Eastern Standard Time (EST)
Background = 7 µR/h Elevation = 820 ft**

MCPS - Spike Sample Lab Results. Measured values are satisfactory, i.e., within $\pm 25\%$ of the chamber's reference value (25.7 pCi/L).

Kit Number	Start Date	Start Time	End Date	End Time	Temp.	Facility	Building	Room	Project ID	Floor	Result
11113484	2022-02-18	9:00 am	2022-02-21	9:00 am	71	OFFICE	MAIN	SK1		1	27.9
11122998	2022-02-18	9:00 am	2022-02-21	9:00 am	71	OFFICE	MAIN	SK2		1	26.0
20107126	2022-02-18	9:00 am	2022-02-21	9:00 am	71	OFFICE	MAIN	SK3		1	27.6



Radon Test Kit Chain of Custody

Project Name: MCPS Radon – February 2022 Schools

Name of Schools:

1. Sherwood HS
2. Paint Branch HS
3. Clarksburg HS
4. Hallie Wells MS
5. Rocky Hill MS
6. Wilson Wims ES
7. John T. Baker MS
8. Clearspring ES
9. Damascus ES

	Date	Initials
Radon Test Kits Deployed	02/14/2022	
Radon Test Kits Collected	02/17/2022	
Radon Test Kits Shipped to Lab*	02/17/2022	
Radon Test Kits Received by Lab*	02/19/2022	

*All samples sent to Air Check, Inc., 1936 Butler Bridge Rd, Mills River, NC 28759

RADON SURVEY SCREENING REPORT – FOLLOW-UP
WILSON WIMS ELEMENTARY SCHOOL
12520 Blue Sky Drive, Clarksburg, Maryland 20871
5 February 2016



EXECUTIVE SUMMARY

Name of Facility:	Wilson Wims Elementary School, Clarksburg, MD
Date of Test Report:	5 February 2016
Round of Testing:	Initial Follow-up Post Remediation
# rooms tested:	3 (Second Floor)
# rooms \geq 4.0 pCi/L:	None
Low Value:	0.2 pCi/L
High Value:	0.4 pCi/L

At the request of Montgomery County Public Schools (MCPS), Leidos conducted a follow-up radon gas screening survey at Wilson Wims Elementary School (ES) for the occupied classrooms and offices on the second floor. On 28 December 2015, John Whelpley, P.E. (Leidos) installed sampling kits in ten percent of the 26 occupied classrooms and offices (i.e., three) on the second floor of Wilson Wims ES. The locations of these three sampling locations are shown in Figure 1.

The radon screening survey followed the USEPA protocols including placing a dual sampling device in each room selected as a sampling location. Each device or kit contains two activated charcoal adsorption devices, set at a distance of 4 inches apart. A photograph of the radon sampling kit is shown in Figure 2. Each radon sampling kit was placed at least 20 inches above the ground surface, and was usually placed on top of a surface such as a 5-foot file cabinet or 6-foot shelf to avoid contact by students during the 3-day sampling period. The radon sampling kits were also placed away from exterior walls and windows, out of direct sunlight, and away from HVAC vents as much as possible.

The radon test kits were installed on Monday afternoon and were then picked up on Thursday morning (i.e., approximately 67 hours later). According to the Building Services personnel, the HVAC system was functioning in the school during the testing period and no exterior windows were open during the testing period. The average outdoor temperature (46 degrees F), humidity (80%), wind (4 mph), and total precipitation (0.63 inches) during the December 28-31 testing period were obtained from Weather Underground (www.weatherunderground.com).

In accordance with the American Association of Radon Scientist and Technologist (AARST) recommendations, ten percent of the 26 occupied classrooms and offices on the second floor were sampled. All 37 occupied classrooms and offices on the first floor had been sampled over the December 11-14 period and the maximum radon gas detection was 1.8 pCi/L in those rooms.

The radon test kits were shipped to EMSL Analytical, Inc. in Cinnaminson, NJ, on 31 December 2015 for analysis by liquid scintillation counter using the USEPA testing protocols for testing Radon in Air. EMSL is accredited by the National Radon Safety Board (NRSB) under ARL6006 for radon analysis and the radon test kits are approved devices by the NRSB under

#12199. A total of five paired devices were submitted for analysis, including the screening samples for three sampling locations, one duplicate sample, and one field blank. The Chain of Custody for the shipment of the radon test kits is shown in Appendix B. The laboratory analysis results are shown in Appendix C and are summarized in the table in Appendix A.

As shown in the table in Appendix A, none of the rooms had radon results above the USEPA Action Level of 4 Picocuries per Liter (pCi/L). Office 256 had an average radon result of 0.2 pCi/L whereas Classroom 232 had an average radon result of 0.3 pCi/L and Classroom 212 had an average radon result of 0.4 pCi/L. As a result, in accordance with the USEPA procedures, none of the second floor rooms require retesting in the short term.

As part of the USEPA Quality Assurance (QA) procedures, Leidos also collected one duplicate and one field blank. The WW 45 duplicate had an average relative percent difference (ARPD) of 33% which is above the QA limit of 25%. However, the original sample (WW 44) with 0.2 pCi/L and the duplicate (WW 45) with 0.3 pCi/L are both very near the detection limit so the ARPD is not indicative of poor QA procedures in this case. In addition, the WW 48 field blank was less than the QA limit of 1.0 pCi/L.

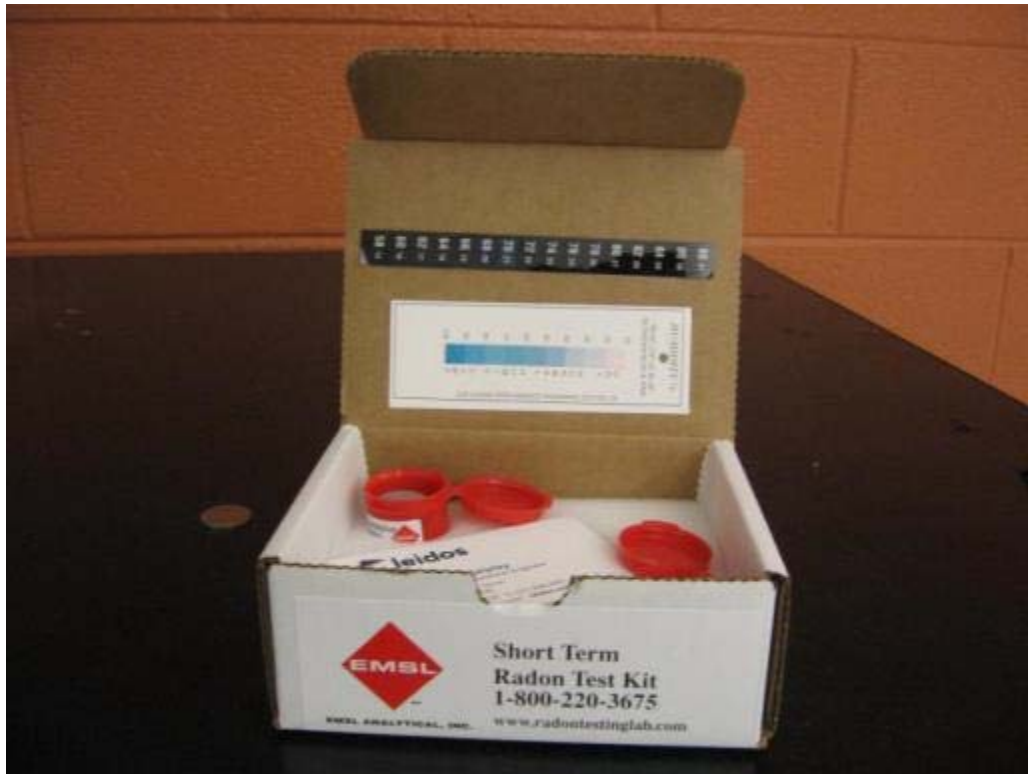


Figure 2. Photograph of Typical Radon Test Kit With Dual Devices

Appendix A. Radon Survey Results – Follow-up

Unique Sample Identifier	Sample Location Description (Room Number, Area)	Sample Result
231754	WW 44- Office 256, Northeast side, 6 ft shelf	0.2
231788	WW 44- Office 256, Northeast side, 6 ft shelf	0.2
231859	WW 45 - Office 256, Northeast side, 6 ft shelf	0.4
231880	WW 45 - Office 256, Northeast side, 6 ft shelf	0.2
231856	WW 46 - Classroom 232, Northeast side, 6 ft shelf	0.2
231878	WW 46 - Classroom 232, Northeast side, 6 ft shelf	0.3
231742	WW 47 - Classroom 212, Southwest side, 6 ft shelf	0.4
231855	WW 47 - Classroom 212, Southwest side, 6 ft shelf	0.3
231763	WW 48 - Field Blank	-0.1
231819	WW 48 - Field Blank	0.0

Appendix B. Chain of Custody – Follow-up

MTF



EMSL ANALYTICAL, INC.

**CHAIN OF CUSTODY
RADON LABORATORY SERVICES
(COMMERCIAL USE) CINNAMINSON, N.J.**

EMSL ANALYTICAL, INC.
200 ROUTE 130 NORTH
CINNAMINSON, NJ 08077
PHONE: 800-220-3675
FAX: 856-786-0327

EMSL Job #: 381600092
2016 JAN -5 P 2:30

Company Information

Company Name: Leidos
 EMSL Account #: LEID42 Bday
 Contact: John Whelpley
 Address: 11951 Fred Dr
 City: Reston
 State: VA Zip Code: 20190
 Phone: 571-268-0697
 Fax: -
 Email: whelpley.j@leidos.com

Project / Property Information:

Name: Wilson Wims ES
 Address: 12520 Blue Sky Drive
 City: Clarksburg
 Municipality: - County: Montgomery
 State: MD Zip Code: 20871
 PO#/Project#: 316041.00.00.001
 Please check box if this is a Post Mitigation Test
 Technician Name: John Whelpley
 Technician Certification #: -
 Technician Signature: John Whelpley

Disclaimer

In no event shall EMSL be liable for indirect, special, consequential, or incidental damages for loss of profit or goodwill regardless of the negligence (either sole or concurrent) of EMSL and whether EMSL has been informed of the possibility of such damages arising out of or in connection with EMSL's services there under or the delivery, use, reliance upon or interpretation of test results by client or third party. We accept no legal responsibility for the purposes for which the client uses the test results. In no event shall EMSL be liable to a client or any third party, whether based upon theories of tort, contract or any other legal or equitable theory, in excess of the amount paid to EMSL by client thereafter.

Box Number	Device Number	Location	Exposure Period Beginning Date and Time	Exposure Period Ending Date and Time	Temperature, °F	Humidity, %
NW44	136290	Office 256 NE side, 6' shelf	12/28/15 1521	12/31/15 1012	68°	40%
	231788	" "	" "	" "	"	"
NW45	136293	D	12/28/15 1523	12/31/15 1013	68°	40%
	231880	D	" "	" "	"	"
NW46	136287	Classroom 232 NE side, 6' shelf	12/28/15 1525	12/31/15 1010	68°	40%
	231878	" "	" "	" "	"	"
NW47	136288	Classroom 212 SW side, 6' shelf	12/28/15 1528	12/31/15 1009	68°	40%
	231855	" "	" "	" "	"	"
NW48	136289	B	12/28/15 1530	12/31/15 1020	72°	60%
	231819	B	" "	" "	"	"

Relinquished By: John Whelpley 1400 to UPS
 Received By:

Appendix C. Laboratory Results – Follow-up

**EMSL Analytical, Inc.**

200 Route 130 North, Cinnaminson, NJ 08077
 Phone/Fax: (800) 220-3675 / (856) 786-0327
<http://www.EMSL.com> cinnaminsonradonlab@emsl.com

EMSL Order: 381600092
 CustomerID: LEID42
 CustomerPO: 316041.00.00
 ProjectID:

Attn: **John Whelpley**
Leidos Engineering, LLC
11951 Freedom Dr.
Reston, VA 20190

Phone: (571) 268-0697
 Fax:
 Received: 01/05/16 2:30 PM
 Analysis Date: 1/6/2016
 Collected: 12/28/2015

Project: **Wimses / 12520 Blue Sky Drive**

Test Site: **Wilson Wimses**
12520 Blue Sky Drive
Clarksburg, MD 20871

Test Report: Radon in Air Test Results**Samples for EMSL Kit 136290**

Liquid Scintillation ID	Location	Radon Activity pCi/L	Start	Stop	Temperature F	Humidity %	Sample Type
231754 381600092-0001	Office 256 / NE Side / 6' Shelf	0.2	12/28/2015 3:21:00 PM	12/31/2015 10:12:00 AM	68	40	Customer

Sample Notes:

231788 381600092-0002	Office 256 / NE Side / 6' Shelf	0.2	12/28/2015 3:21:00 PM	12/31/2015 10:12:00 AM	68	40	Customer
--------------------------	------------------------------------	-----	--------------------------	---------------------------	----	----	----------

Sample Notes:

Summary for EMSL Kit 136290 **Average Radon Result: 0.2 pCi/L**

Samples for EMSL Kit 136293

Liquid Scintillation ID	Location	Radon Activity pCi/L	Start	Stop	Temperature F	Humidity %	Sample Type
231859 381600092-0003	D	0.4	12/28/2015 3:23:00 PM	12/31/2015 10:13:00 AM	68	40	Customer

Sample Notes:

231880 381600092-0004	D	0.2	12/28/2015 3:23:00 PM	12/31/2015 10:13:00 AM	68	40	Customer
--------------------------	---	-----	--------------------------	---------------------------	----	----	----------

Sample Notes:

Summary for EMSL Kit 136293 **Average Radon Result: 0.3 pCi/L**

Samples for EMSL Kit 136287

Liquid Scintillation ID	Location	Radon Activity pCi/L	Start	Stop	Temperature F	Humidity %	Sample Type
231856 381600092-0005	Classroom 232 / NE Side / 6' Shelf	0.2	12/28/2015 3:25:00 PM	12/31/2015 10:10:00 AM	68	40	Customer

Sample Notes:

231878 381600092-0006	Classroom 232 / NE Side / 6' Shelf	0.3	12/28/2015 3:25:00 PM	12/31/2015 10:10:00 AM	68	40	Customer
--------------------------	---------------------------------------	-----	--------------------------	---------------------------	----	----	----------

Sample Notes:

Summary for EMSL Kit 136287 **Average Radon Result: 0.3 pCi/L**

**EMSL Analytical, Inc.**

200 Route 130 North, Cinnaminson, NJ 08077

Phone/Fax: (800) 220-3675 / (856) 786-0327

<http://www.EMSL.com>cinnaminsonradonlab@emsl.com

EMSL Order:	381600092
CustomerID:	LEID42
CustomerPO:	316041.00.00
ProjectID:	

Attn: **John Whelpley**
Leidos Engineering, LLC
11951 Freedom Dr.
Reston, VA 20190

Phone: (571) 268-0697
 Fax:
 Received: 01/05/16 2:30 PM
 Analysis Date: 1/6/2016
 Collected: 12/28/2015

Project: **Wimses / 12520 Blue Sky Drive**

Test Site: **Wilson Wimses**
12520 Blue Sky Drive
Clarksburg, MD 20871

Test Report: Radon in Air Test Results**Samples for EMSL Kit 136288**

Liquid Scintillation ID	Location	Radon Activity pCi/L	Start	Stop	Temperature F	Humidity %	Sample Type
231742 381600092-0007	Classroom 212 / SW Side / 6' Shelf	0.4	12/28/2015 3:28:00 PM	12/31/2015 10:09:00 AM	68	40	Customer

Sample Notes:

231855 381600092-0008	Classroom 212 / SW Side / 6' Shelf	0.3	12/28/2015 3:28:00 PM	12/31/2015 10:09:00 AM	68	40	Customer
--------------------------	---------------------------------------	-----	--------------------------	---------------------------	----	----	----------

Sample Notes:**Summary for EMSL Kit 136288 Average Radon Result: 0.4 pCi/L****Samples for EMSL Kit 136289**

Liquid Scintillation ID	Location	Radon Activity pCi/L	Start	Stop	Temperature F	Humidity %	Sample Type
231763 381600092-0009	B	-0.1	12/28/2015 3:30:00 PM	12/31/2015 10:20:00 AM	72	60	Customer

Sample Notes:

231819 381600092-0010	B	0	12/28/2015 3:30:00 PM	12/31/2015 10:20:00 AM	72	60	Customer
--------------------------	---	---	--------------------------	---------------------------	----	----	----------

Sample Notes:**Summary for EMSL Kit 136289 Average Radon Result: 0.0 pCi/L**

The radon test was performed using a liquid scintillation radon detector/s and counted on a liquid scintillation counter using approved EPA testing protocols for Radon in Air testing. The EPA recommends fixing your home if the average of two short-term tests taken in the lowest lived-in level of the home show radon levels that are equal to or greater than 4.0pCi/L.
 The EPA recommends retesting your home every two years.

Please contact EMSL Analytical, Inc. or your State Health Department for further information.
 All procedures used for generating this report are in complete accordance with the current EPA protocols for the analysis of Radon in Air.

Report Note



EMSL Analytical, Inc.

200 Route 130 North, Cinnaminson, NJ 08077

Phone/Fax: (800) 220-3675 / (856) 786-0327

<http://www.EMSL.com>

cinnaminsonradonlab@emsl.com

EMSL Order:	381600092
CustomerID:	LEID42
CustomerPO:	316041.00.00
ProjectID:	

Attn: **John Whelpley**
Leidos Engineering, LLC
11951 Freedom Dr.
Reston, VA 20190

Phone: (571) 268-0697
 Fax:
 Received: 01/05/16 2:30 PM
 Analysis Date: 1/6/2016
 Collected: 12/28/2015

Project: **Wimses / 12520 Blue Sky Drive**

Test Site: **Wilson Wimses**
12520 Blue Sky Drive
Clarksburg, MD 20871

Test Report: Radon in Air Test Results

Analyst(s)

Tiffanie Cosgrove (10)

Laura Freeman, Interim Laboratory Manager &
 Subash Rashat, New Jersey Radiation Specialist NJ MES 10152
 or other approved signatory

In no event shall EMSL be liable for indirect, special, consequential, or incidental damages, including, but not limited to, damages for loss of profit or goodwill regardless of the negligence (either sole or concurrent) of EMSL and whether EMSL has been informed of the possibility of such damages, arising out of or in connection with EMSL's services thereunder or the delivery, use, reliance upon or interpretation of test results by client or any third party. We accept no legal responsibility for the purposes for which the client uses the test results. In no event shall EMSL be liable to a client or any third party, whether based upon theories of tort, contract or any other legal or equitable theory, in excess of the amount paid to EMSL by client thereunder. The test results meets all NELAC requirements unless otherwise specified. Accreditations: NRSB ARL6006, NJ DEP 03036, MEB 92525, PA 2573, IN 00455, IA L00032, RI RAS-024, ME 20200C, NE RMB-1083, NY ELAP 10872, NM 885-10L, FL RB2034, OH RL-39, NRPP #106178AL, KS-LB-0005

Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ Accreditations: NRSB ARL6006, NJ DEP 03036, MEB 92525, PA 2573, IN 00455, IA L00032, RI RAS-024, ME 20200C, NE RMB-1083, NY ELAP 10872, NM 885-10L, FL RB2034, OH RL-39, NRPP #106178AL, KS-LB-0005. Subash Rashat certification #MES10152

Initial report from 01/08/2016 11:28:42

Please visit www.radontestinglab.com

RADON SURVEY SCREENING REPORT – DRAFT
WILSON WIMS ELEMENTARY SCHOOL
12520 Blue Sky Drive, Clarksburg, Maryland 20871
4 January 2016



EXECUTIVE SUMMARY

Name of Facility:	Wilson Wims Elementary School, Clarksburg, MD
Date of Test Report:	4 January 2016
Round of Testing:	Initial Follow-up Post Remediation
# rooms tested:	37
# rooms \geq 4.0 pCi/L:	None
Low Value:	0.3 pCi/L
High Value:	1.9 pCi/L

At the request of Montgomery County Public Schools (MCPS), Leidos conducted a radon gas screening survey at Wilson Wims Elementary School (ES) in accordance with the protocols in the United States Environmental Protection Agency (USEPA) *Radon Measurement in Schools* (July 1993). On 11 December 2015, John Whelpley, P.E. (Leidos) installed sampling kits in 37 occupied classrooms and offices on the first floor of Wilson Wims ES. The locations of the 37 occupied classrooms and offices are shown in Figure 1. The elementary school was constructed in 2014.

The radon sampling survey followed the USEPA protocols including placing a sampling device in each room selected as a sampling location. Each device or kit contains two activated charcoal adsorption devices, set at a distance of 4 inches apart. A photograph of the radon sampling kit is shown in Figure 2. Each radon sampling kit was placed at least 20 inches above the ground surface, and was usually placed on top of a surface such as a 5-foot file cabinet or 6-foot shelf to avoid contact by students during the 3-day sampling period. The radon sampling kits were also placed away from exterior walls and windows, out of direct sunlight, and away from HVAC vents as much as possible. A photograph of the radon sampling kit on a 6-foot bookshelf is shown in Figure 3.

The radon test kits were installed on Friday morning and were then picked up on Monday morning (i.e., approximately 70 hours later). According to the Building Services personnel, the HVAC system was functioning in the school prior to the testing period but was mostly off over the weekend and no exterior windows were open during the testing period. The outdoor temperature, humidity, precipitation, wind, and weather conditions during the December 11-14 testing period were obtained from Weather Underground (www.weatherunderground.com) and are shown in the table in Appendix A.

In accordance with the USEPA protocols, all First Floor occupied classrooms and offices in contact with the ground were sampled. These included 37 rooms on the First Floor. In addition, because the Library (107) was over 2,000 square feet, a second set of samples was collected within this room in accordance with the USEPA protocols.

The radon test kits were shipped to EMSL Analytical, Inc. in Cinnaminson, NJ, on 14 December 2015 for analysis by liquid scintillation counter using the USEPA testing protocols for testing Radon in Air. EMSL is accredited by the National Radon Safety Board (NRBP) under

ARL6006 for radon analysis and the radon test kits are approved devices by the NRW under #12199. A total of 43 paired devices were submitted for analysis, including the screening samples for 38 sampling locations (i.e., the 37 rooms included extra samples in the Library), four duplicate samples, and one field blank. The Chain of Custody for the shipment of the radon test kits is shown in Appendix B. The laboratory analysis results are shown in Appendix C and are summarized in the table in Appendix A.

As shown in the table in Appendix A, none of the rooms had radon results above the USEPA Action Level of 4 Picocuries per Liter (pCi/L). The highest detected radon concentrations were in Classroom 128 which had an average radon result of 1.8 pCi/L. As a result, in accordance with the USEPA procedures, none of the first floor rooms require retesting in the short term.

As part of the USEPA Quality Assurance (QA) procedures, Leidos collected four duplicates (covering 10% of rooms) and one field blank (representing 3% of the rooms). The four duplicates all had average relative percent differences (ARPDs) within the QA limit of 25% including: WW 5 (15%), WW 21 (6%), WW 31 (8%), and WW 41 (20%). The field blank was less than the QA limit of 1.0 pCi/L with 0.05 pCi/L detected at WW 27.

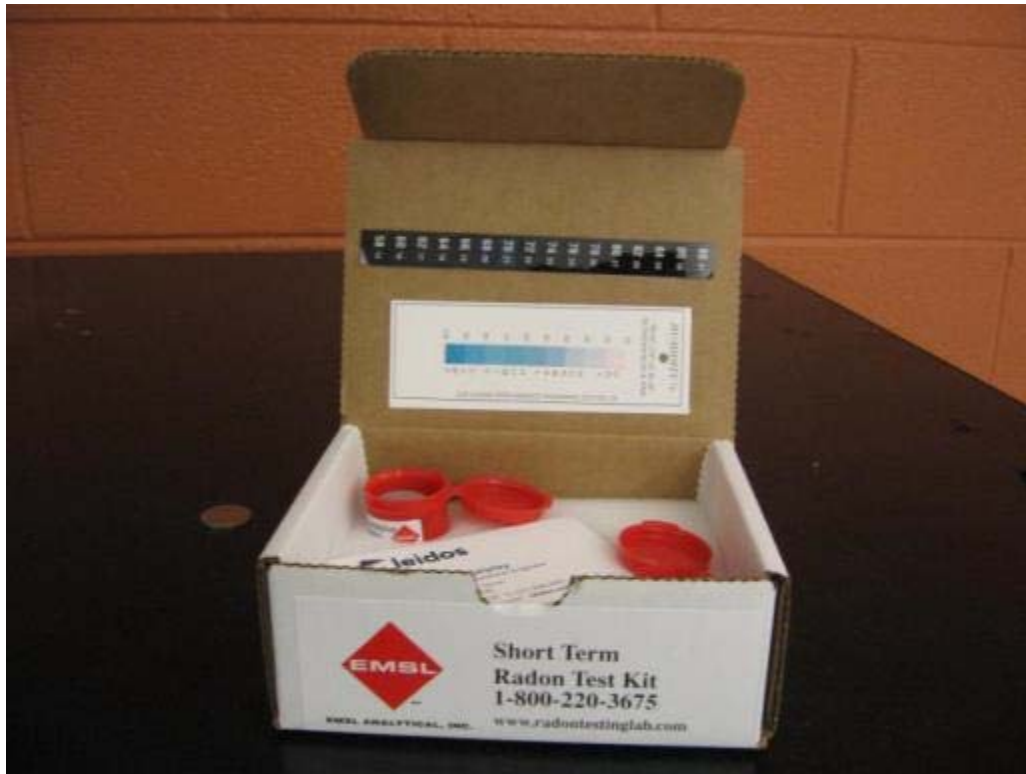


Figure 2. Photograph of Typical Radon Test Kit With Dual Devices



Figure 3. Typical Placement of Radon Test Kit

Appendix A. Radon Survey Results

Unique Sample Identifier	Sample Location Description (Room Number, Area)	Sample Result
225232	WW 1 - Office 100, West Side, 5 ft Shelf	0.8
225215	WW 1 - Office 100, West Side, 5 ft Shelf	0.9
225172	WW 2 - Office 102, NE Side, 6 ft Shelf	1.1
225088	WW 2 - Office 102, NE Side, 6 ft Shelf	1.2
225211	WW 3 - Office 100D, East Side, 5 ft Bookshelf	0.8
225240	WW 3 - Office 100D, East Side, 5 ft Bookshelf	0.9
225642	WW 4 - Office 100F, 6 ft Bookshelf	1.3
225645	WW 4 - Office 100F, 6 ft Bookshelf	1.3
225183	WW 5 - Office 100F, 6 ft Bookshelf	1.4
225102	WW 5 - Office 100F, 6 ft Bookshelf	0.9
225168	WW 6 - Classroom 151, West Side, 6 ft Shelf	0.7
225089	WW 6 - Classroom 151, West Side, 6 ft Shelf	0.6
225634	WW 7 - Classroom 147, SW Side, 6 ft Shelf	0.8
225185	WW 7 - Classroom 147, SW Side, 6 ft Shelf	1.0
225164	WW 8 - Classroom 178, NE Side, 6 ft Shelf	1.3
225119	WW 8 - Classroom 178, NE Side, 6 ft Shelf	1.2
225205	WW 9 - Classroom 139, SW Side, 6 ft Shelf	1.4
225188	WW 9 - Classroom 139, SW Side, 6 ft Shelf	1.5
225106	WW 10 - Classroom 135, SW Side, 6 ft Shelf	1.2
225246	WW 10 - Classroom 135, SW Side, 6 ft Shelf	1.4
225229	WW 11 - Classroom 174, NE Side, 6 ft Shelf	1.5
225094	WW 11 - Classroom 174, NE Side, 6 ft Shelf	1.8
225243	WW 12 - Classroom 168, NE Side, 6 ft Shelf	1.5
225620	WW 12 - Classroom 168, NE Side, 6 ft Shelf	1.4
225289	WW 13 - Office 133, West Side, 6 ft Shelf	1.0
225640	WW 13 - Office 133, West Side, 6 ft Shelf	1.1
225220	WW 14 - Classroom 160, SW Side, 6 ft Shelf	1.0
225158	WW 14 - Classroom 160, SW Side, 6 ft Shelf	1.0
225219	WW 15 - Classroom 158, NE Side, 6 ft Shelf	0.8

Unique Sample Identifier	Sample Location Description (Room Number, Area)	Sample Result
225264	WW 15 - Classroom 158, NE Side, 6 ft Shelf	0.8
225135	WW 16 - Classroom 154, NE Side, 6 ft Shelf	1.0
225262	WW 16 - Classroom 154, NE Side, 6 ft Shelf	1.0
225611	WW 17 - Classroom 150, SW Side, 6 ft Shelf	1.1
225605	WW 17 - Classroom 150, SW Side, 6 ft Shelf	1.0
225194	WW 18 - Classroom 144, SE Side, 6 ft Shelf	1.1
225208	WW 18 - Classroom 144, SE Side, 6 ft Shelf	1.0
225622	WW 19 - Classroom 140, NW Side, 6 ft Shelf	0.6
225107	WW 19 - Classroom 140, NW Side, 6 ft Shelf	0.7
225081	WW 20 - Classroom 125, 6 ft Shelf	0.8
225101	WW 20 - Classroom 125, 6 ft Shelf	1.0
225212	WW 21 - Classroom 125, 6 ft Shelf	1.0
225203	WW 21 - Classroom 125, 6 ft Shelf	0.9
225633	WW 22 - Classroom 136, SE Side, 6 ft Shelf	0.7
225163	WW 22 - Classroom 136, SE Side, 6 ft Shelf	1.0
225086	WW 23 - Classroom 121, SE Side, 6 ft Shelf	0.7
225187	WW 23 - Classroom 121, SE Side, 6 ft Shelf	0.8
225632	WW 24 - Classroom 134, NW Side, 6 ft Shelf	0.6
225231	WW 24 - Classroom 134, NW Side, 6 ft Shelf	0.6
225225	WW 25 - Classroom 128, NW Side, 6 ft Shelf	1.7
225105	WW 25 - Classroom 128, NW Side, 6 ft Shelf	1.9
225167	WW 26 - Office 124, 5 ft File Cabinet	0.9
225150	WW 26 - Office 124, 5 ft File Cabinet	1.1
225613	WW 27 - Field Blank	0.0
225078	WW 27 - Field Blank	0.1
225103	WW 28 - Classroom 186, NW Side, 6 ft Shelf	0.5
225175	WW 28 - Classroom 186, NW Side, 6 ft Shelf	0.7
225202	WW 29 - Classroom 188, NE Side, 6 ft Shelf	0.6
225184	WW 29 - Classroom 188, NE Side, 6 ft Shelf	0.6

Unique Sample Identifier	Sample Location Description (Room Number, Area)	Sample Result
225218	WW 30 - Classroom 190, NW Side, 6 ft Shelf	0.7
225204	WW 30 - Classroom 190, NW Side, 6 ft Shelf	0.5
225255	WW 31 - Classroom 190, NW Side, 6 ft Shelf	0.5
225249	WW 31 - Classroom 190, NW Side, 6 ft Shelf	0.6
225124	WW 32 - Classroom 192, NW Side, 6 ft Shelf	0.5
225166	WW 32 - Classroom 192, NW Side, 6 ft Shelf	0.4
225213	WW 33 - Classroom 113, NE Side, 5 ft Computer Shelf	0.7
225196	WW 33 - Classroom 113, NE Side, 5 ft Computer Shelf	0.6
225195	WW 34 - Library 107, NE Side, 6 ft Bookshelf	0.8
225200	WW 34 - Library 107, NE Side, 6 ft Bookshelf	0.6
225197	WW 35 - Library 107, SW Side, 6 ft Bookshelf	0.9
225250	WW 35 - Library 107, SW Side, 6 ft Bookshelf	0.8
225603	WW 36 - Library Office 111, NE Side, 6 ft Shelf	0.6
225098	WW 36 - Library Office 111, NE Side, 6 ft Shelf	0.6
225112	WW 37 - Classroom 180, East Side, 6 ft Shelf	0.7
225110	WW 37 - Classroom 180, East Side, 6 ft Shelf	0.8
225210	WW 38 - Classroom 172, 6 ft Shelf	0.8
225287	WW 38 - Classroom 172, 6 ft Shelf	1.1
225602	WW 39 - Classroom 164, NE Side, 6 ft Shelf	1.3
225311	WW 39 - Classroom 164, NE Side, 6 ft Shelf	1.0
225161	WW 40 - Kitchen Office 110B, West Side, 5 ft File Cabinet	0.3
225193	WW 40 - Kitchen Office 110B, West Side, 5 ft File Cabinet	0.2
225221	WW 41 - Kitchen Office 110B, West Side, 5 ft File Cabinet	0.1
225275	WW 41 - Kitchen Office 110B, West Side, 5 ft File Cabinet	0.3
225104	WW 42 - Multi Purpose Room 104, 5 ft Electrician Cabinet	0.4
225318	WW 42 - Multi Purpose Room 104, 5 ft Electrician Cabinet	0.3
225635	WW 43 - Gym Office 187A, South Side, 6 ft Shelf	0.7
225182	WW 43 - Gym Office 187A, South Side, 6 ft Shelf	0.6

Appendix B. Chain of Custody



RECEIVED
EMSL
CINNAMINSON, N.J.

CHAIN OF CUSTODY
RADON LABORATORY SERVICES
(COMMERCIAL USE)

EMSL ANALYTICAL, INC.
200 ROUTE 130 NORTH
CINNAMINSON, NJ 08077

PHONE: 800-220-3675
FAX: 856-786-0327

EMSL Job #: 381509989

2015 DEC 15 P 12: 32

Company Information

Company Name: LEIDOS #4 LEID042
EMSL Account #: 86184864
Contact: JOHN WHELPLEY
Address: 11951 Freedom Dr.
City: Reston
State: VA Zip Code: 20190
Phone: 571-268-0697
Fax: NA
Email: whelpley.j@leidos.com

Project / Property Information:

Name: WILSON WIMS ES
Address: 12520 Blue Sky Drive
City: Clarksburg
Municipality: - County: Montgomery
State: MD Zip Code: 20871
PO#/Project#: PO-MISC-ROD-86184864
 Please check box if this is a Post Mitigation Test
Technician Name: JOHN Whelpley, P.E.
Technician Certification #: NA
Technician Signature: [Signature]

Disclaimer

In no event shall EMSL be liable for indirect, special, consequential, or incidental damages for loss of profit or goodwill regardless of the negligence (either sole or concurrent) of EMSL and whether EMSL has been informed of the possibility of such damages arising out of or in connection with EMSL's services there under or the delivery, use, reliance upon or interpretation of test results by client or third party. We accept no legal responsibility for the purposes for which the client uses the test results. In no event shall EMSL be liable to a client or any third party, whether based upon theories of tort, contract or any other legal or equitable theory, in excess of the amount paid to EMSL by client thereafter.

Box Number	Device Number	Location	Exposure Period Beginning Date and Time	Exposure Period Ending Date and Time	Temperature, °F	Humidity, %
Ww1 133488	225232	Office 100 W side, Shelf 5'	12/11/15 0955	12/14/15 0808	70°	60%
	225215	" " " "	12/11/15 0955	" "	"	"
Ww2 133486	225172	Office 102 W side, Shelf 6'	12/11/15 0958	12/14/15 0809	72°	60%
	225088	" " " "	" "	" "	"	"
Ww3 133508	225211	Office 100D W side, Shelf 5'	12/11/15 1000	12/14/15 0810	68°	60%
	225240	" " " "	" "	" "	"	"
Ww4 133460	225642	Office 100F 1st floor	12/11/15 1002	12/14/15 0811	70°	60%
	225645	" " " "	" "	" "	"	"
Ww5 133509	225183	D	12/11/15 1004	12/14/15 0812	70°	60%
	225102	D	" "	" "	"	"
Ww6 133505	225168	Classroom 151 W side, Shelf 6'	12/11/15 1011	12/14/15 0813	70°	60%
	225089	" " " "	" "	" "	"	"

Relinquished By: [Signature] 12/14/15 1200 to UPS
Received By: [Signature] 12/15/15

RECEIVED
EMSL
CINNAMINSON, N.J.
2015 DEC 15 P 12: 33



CHAIN OF CUSTODY
 RADON LABORATORY SERVICES
 (COMMERCIAL USE)
 RECEIVED
 EMSL
 CINNAMINSON, N.J.

EMSL ANALYTICAL, INC.
 200 ROUTE 130 NORTH
 CINNAMINSON, NJ 08077
 PHONE: 800-220-3675
 FAX: 856-786-0327

EMSL Job #: 2015 DEC 15 P 12: 33

381509989

Box Number	Device Number	Location	Exposure Period Beginning Date and Time	Exposure Period Ending Date and Time	Temperature, °F	Humidity, %
ww7	133510	Class 147	12/11/15 1014	12/14/15 0813	70°	70%
	225634	SW side, shelf 6'				
	225185	SW				
ww8	133511	Class 178	12/11/15 1017	12/14/15 0816	72°	60%
	225164	NE Cor, shelf 6'				
	225119	NE Cor				
ww9	133504	Class 139	12/11/18 1019	12/14/15 0815	68°	70%
	225205	SW side, shelf 6'				
	225188					
ww10	133457	Class 135	12/11/18 1021	12/14/15 0817	74°	40%
	225106	SW side, shelf 6'				
	225246					
ww11	133487	Class 174	12/11/18 1023	12/14/15 0819	70°	60%
	225229	NE side, shelf 6'				
	225094					
ww12	133459	Class 168	12/11/18 1027	12/14/15 0821	70°	60%
	225243	NE side, shelf 6'				
	225620					
ww13	133506	Office 133	12/11/15 1030	12/14/15 0823	70°	60%
	225289	SW side, shelf 6'				
	225640	WSide				
ww14	133502	Class 160	12/11/15 1031	12/14/15 0824	68°	60%
	225220	SW side, shelf 6'				
	225158					
ww15	133503	Class 158	12/11/15 1034	12/14/15 0855	70°	60%
	225219	NE side, shelf 6'				
	225264	NE side				
ww16	133521	Class 154	12/11/15 1037	12/14/15 0826	74°	40%
	225135	NE side, shelf 6'				
	225262					
ww17	133463	Class 150	12/11/15 1038	12/14/15 0827	68°	60%
	225611	SW side, shelf 6'				
	225605					
ww18	133507	Class 144	12/11/15 1041	12/14/15 0828	76°	70%
	225194	SE side, shelf 6'				
	225208					
ww19	133473	Class 140	12/11/15 1044	12/14/15 0829	76°	50%
	225622	SW side, shelf 6'				
	(133473) 225107	NW side, shelf 6'				

Relinquished By: *[Signature]*
 Received By: *[Signature]*

m² 3/5



**CHAIN OF CUSTODY
RADON LABORATORY SERVICES
(COMMERCIAL USE)**

RECEIVED
EMSL
CINNAMINSON, N.J.

EMSL ANALYTICAL, INC.
200 ROUTE 130 NORTH
CINNAMINSON, NJ 08077

PHONE: 800-220-3675
FAX: 856-786-0327

EMSL ANALYTICAL, INC.

EMSL Job #: 381509989 2015 DEC 15 P 12:33

Company Information

Company Name: LEIDOS
 EMSL Account #: _____
 Contact: _____
 Address: _____
 City: _____
 State: _____ Zip Code: _____
 Phone: _____
 Fax: _____
 Email: _____

Project / Property Information:

Name: WILSON WIMS ES
 Address: <SAME>
 City: _____
 Municipality: _____ County: _____
 State: _____ Zip Code: _____
 PO#/Project#: _____
 Please check box if this is a Post Mitigation Test
 Technician Name: _____
 Technician Certification #: _____
 Technician Signature: _____

Disclaimer

In no event shall EMSL be liable for indirect, special, consequential, or incidental damages for loss of profit or goodwill regardless of the negligence (either sole or concurrent) of EMSL and whether EMSL has been informed of the possibility of such damages arising out of or in connection with EMSL's services there under or the delivery, use, reliance upon or interpretation of test results by client or third party. We accept no legal responsibility for the purposes for which the client uses the test results. In no event shall EMSL be liable to a client or any third party, whether based upon theories of tort, contract or any other legal or equitable theory, in excess of the amount paid to EMSL by client thereafter.

Box Number	Device Number	Location	Exposure Period Beginning Date and Time	Exposure Period Ending Date and Time	Temperature, °F	Humidity, %
ww20	133482	Classroom 125, Shelf 6	12/11/15 1047	12/14/15 0830	80°	30%
	225081	" "	" "	" "	"	"
	225101	" "	" "	" "	"	"
ww21	133489	D	12/11/15 1049	12/14/15 0831	80°	30%
	225212	D	" "	" "	"	"
	225203	D	" "	" "	"	"
ww22	133496	Classroom 136 SE, Shelf 6	12/11/15 1053	12/14/15 0832	72°	60%
	225633	" "	" "	" "	"	"
	225163	" "	" "	" "	"	"
ww23	133468	Class 127 Sess., Shelf 6	12/11/15 1055	12/14/15 0833	72°	50%
	225086	" "	" "	" "	"	"
	225187	" "	" "	" "	"	"
ww24	133458	Class 134 NW Side, Shelf 6	12/11/15 1057	12/14/15 0834	74°	30%
	225632	" "	" "	" "	"	"
	225231	" "	" "	" "	"	"
ww25	133471	Class 128 NW Side, Shelf 6	12/11/15 1101	12/14/15 0835	76°	60%
	225225	" "	" "	" "	"	"
	225105	" "	" "	" "	"	"

Relinquished By: _____

Received By: [Signature]

ma 4/5



RECEIVED
EMSL
CINNAMINSON, N.J.

CHAIN OF CUSTODY
RADON LABORATORY SERVICES
(COMMERCIAL USE)

EMSL ANALYTICAL, INC.
200 ROUTE 130 NORTH
CINNAMINSON, NJ 08077

PHONE: 800-220-3675
FAX: 856-786-0327

2015 DEC 15 P 12:00

EMSL Job #: 381509989

Box Number	Device Number	Location	Exposure Period Beginning Date and Time	Exposure Period Ending Date and Time	Temperature, °F	Humidity, %
Ww26	133520	Office 124	12/11/15 1105	12/14/15 0836	72°	60%
"	225 167	"	"	"	"	"
"	225 150	File Cabinet 5'	"	"	"	"
Ww27	133484	B	12/11/15 1107	12/14/15 0836	72°	60%
"	225 613	"	"	"	"	"
"	225 078	"	"	"	"	"
Ww28	133477	Class 186	12/11/15 1109	12/14/15 0837	70°	60%
"	225 103	"	"	"	"	"
"	225 175	NW side, Shelf 6'	"	"	"	"
Ww29	133476	Class 188	12/11/15 1111	12/14/15 0838	70°	60%
"	225 202	"	"	"	"	"
"	225 184	NE side, Shelf 6'	"	"	"	"
Ww30	133469	Class 190	12/11/15 1112	12/14/15 0839	76°	60%
"	225 218	"	"	"	"	"
"	225 204	NW side, Shelf 6'	"	"	"	"
Ww31	133475	D	12/11/15 1114	12/14/15 0840	76°	60%
"	225 255	"	"	"	"	"
"	225 249	"	"	"	"	"
Ww32	133522	Class 192	12/11/15 1117	12/14/15 0841	70°	50%
"	225 124	"	"	"	"	"
"	225 166	NW side, Shelf 6'	"	"	"	"
Ww33	133478	Class Computer 113	12/11/15 1120	12/14/15 0845	70°	60%
"	225 213	"	"	"	"	"
"	225 196	NE, Shelf 5'	"	"	"	"
Ww34	133474	Library 107	12/11/15 1124	12/14/15 0849	70°	80%
"	225 195	"	"	"	"	"
"	225 200	NE, Bookshelf 6'	"	"	"	"
Ww35	133472	Library 107	12/11/15 1125	12/14/15 0850	70°	80%
"	225 197	"	"	"	"	"
"	225 250	SW, Bookshelf 6'	"	"	"	"
Ww36	133490	Library Office 111	12/11/15 1129	12/14/15 0852	76°	70%
"	225 603	"	"	"	"	"
"	225 098	NE, Shelf 6'	"	"	"	"
Ww37	133483	Class 180	12/11/15 1133	12/14/15 0814	74°	60%
"	225 112	"	"	"	"	"
"	225 110	E, Shelf 6'	"	"	"	"
Ww38	133461	Class 172	12/11/15 1134	12/14/15 0820	68°	60%
"	225 210	"	"	"	"	"
"	225 287	NE, Shelf 6'	"	"	"	"

Relinquished By:

Received By:

[Handwritten signature]

m#2 5/5



RECEIVED
EMSL
CINNAMINSON, NJ
2015 DEC 15 P 12:33

**CHAIN OF CUSTODY
RADON LABORATORY SERVICES
(COMMERCIAL USE)**

EMSL ANALYTICAL, INC.
200 ROUTE 130 NORTH
CINNAMINSON, NJ 08077
PHONE: 800-220-3675
FAX: 856-786-0327

EMSL ANALYTICAL, INC.

EMSL Job #: 381509989

Company Information

Company Name: LEIDOS
EMSL Account #: <SAME>
Contact: "
Address: "
City: "
State: " Zip Code: "
Phone: "
Fax: "
Email: "

Project / Property Information:

Name: WILSON WIMS ES
Address: <SAME>
City: "
Municipality: " County: "
State: " Zip Code: "
PO#/Project #: "
 Please check box if this is a Post Mitigation Test
Technician Name: "
Technician Certification #: "
Technician Signature: "

Disclaimer

In no event shall EMSL be liable for indirect, special, consequential, or incidental damages for loss of profit or goodwill regardless of the negligence (either sole or concurrent) of EMSL and whether EMSL has been informed of the possibility of such damages arising out of or in connection with EMSL's services there under or the delivery, use, reliance upon or interpretation of test results by client or third party. We accept no legal responsibility for the purposes for which the client uses the test results. In no event shall EMSL be liable to a client or any third party, whether based upon theories of tort, contract or any other legal or equitable theory, in excess of the amount paid to EMSL by client thereafter.

Box Number	Device Number	Location	Exposure Period Beginning Date and Time	Exposure Period Ending Date and Time	Temperature, °F	Humidity, %
Ww39	133469	Classr 160 1st fl 66'	12/11/15 1141	12/14/15 0822	76°	30%
	225311		" "	" "	"	"
Ww40	133485	Kitchen area 1100 W side, Elec Cab	12/11/15 1146	12/14/15 0846	72°	60%
	225193	5'	" "	" "	"	"
Ww41	133462	D	12/11/15 1148	12/14/15 0847	72°	60%
	225275	D	" "	" "	"	"
Ww42	133465	APR, Catina Electronics	12/11/15 1149	12/14/15 0848	70°	70%
	(133465) 225318	2nd fl 5'	" "	" "	"	"
Ww43	133470	Gym office 187A S side 1st fl 66'	12/11/15 1153	12/14/15 0843	78°	70%
	225182		" "	" "	"	"
Ww44			12/11/15 1153	12/14/15 0843		

Relinquished By: Jed
Received By: Kawellen

VSS

Appendix C. Laboratory Results

**EMSL Analytical, Inc.**

200 Route 130 North, Cinnaminson, NJ 08077
 Phone/Fax: (800) 220-3675 / (856) 786-0327
<http://www.EMSL.com> cinnaminsonradonlab@emsl.com

EMSL Order: 381509989
 CustomerID: LEID42
 CustomerPO:
 ProjectID:

Attn: **John Whelpley**
Leidos Engineering, LLC
11951 Freedom Dr.
Reston, VA 20190

Phone: (571) 268-0697
 Fax:
 Received: 12/15/15 12:30 PM
 Analysis Date: 12/16/2015
 Collected: 12/11/2015

Project: **Wilson Wims ES / 12520 Blue Sky Drive**

Test Site: **Wilson Wims ES**
12520 Blue Sky Drive
Clarksburg, MD 20871

Test Report: Radon in Air Test Results**Samples for EMSL Kit 133488**

Liquid Scintillation ID	Location	Radon Activity pCi/L	Start	Stop	Temperature F	Humidity %	Sample Type
225232 381509989-0001	Office 100 - W Side, Shelf 5'	0.8	12/11/2015 9:55:00 AM	12/14/2015 8:08:00 AM	70	60	Customer

Sample Notes:

225215 381509989-0002	Office 100 - W Side, Shelf 5'	0.9	12/11/2015 9:55:00 AM	12/14/2015 8:08:00 AM	70	60	Customer
--------------------------	----------------------------------	-----	--------------------------	--------------------------	----	----	----------

Sample Notes:

Summary for EMSL Kit 133488 **Average Radon Result: 0.9 pCi/L**

Samples for EMSL Kit 133486

Liquid Scintillation ID	Location	Radon Activity pCi/L	Start	Stop	Temperature F	Humidity %	Sample Type
225172 381509989-0003	Office 102, NE Side, Shelf 6'	1.1	12/11/2015 9:58:00 AM	12/14/2015 8:09:00 AM	72	60	Customer

Sample Notes:

225088 381509989-0004	Office 102, NE Side, Shelf 6'	1.2	12/11/2015 9:58:00 AM	12/14/2015 8:09:00 AM	72	60	Customer
--------------------------	----------------------------------	-----	--------------------------	--------------------------	----	----	----------

Sample Notes:

Summary for EMSL Kit 133486 **Average Radon Result: 1.2 pCi/L**

Samples for EMSL Kit 133508

Liquid Scintillation ID	Location	Radon Activity pCi/L	Start	Stop	Temperature F	Humidity %	Sample Type
225211 381509989-0005	Office 100D, E Side, Bookshelf 5'	0.8	12/11/2015 10:00:00 AM	12/14/2015 8:10:00 AM	68	60	Customer

Sample Notes:

225240 381509989-0006	Office 100D, E Side, Bookshelf 5'	0.9	12/11/2015 10:00:00 AM	12/14/2015 8:10:00 AM	68	60	Customer
--------------------------	--------------------------------------	-----	---------------------------	--------------------------	----	----	----------

Sample Notes:

Summary for EMSL Kit 133508 **Average Radon Result: 0.9 pCi/L**

**EMSL Analytical, Inc.**

200 Route 130 North, Cinnaminson, NJ 08077
 Phone/Fax: (800) 220-3675 / (856) 786-0327
<http://www.EMSL.com> cinnaminsonradonlab@emsl.com

EMSL Order: 381509989
 CustomerID: LEID42
 CustomerPO:
 ProjectID:

Attn: **John Whelpley**
Leidos Engineering, LLC
11951 Freedom Dr.
Reston, VA 20190

Phone: (571) 268-0697
 Fax:
 Received: 12/15/15 12:30 PM
 Analysis Date: 12/16/2015
 Collected: 12/11/2015

Project: **Wilson Wims ES / 12520 Blue Sky Drive**

Test Site: **Wilson Wims ES**
12520 Blue Sky Drive
Clarksburg, MD 20871

Test Report: Radon in Air Test Results**Samples for EMSL Kit 133460**

Liquid Scintillation ID	Location	Radon Activity pCi/L	Start	Stop	Temperature F	Humidity %	Sample Type
225642 381509989-0007	Office 100F, Bookshelf 6'	1.3	12/11/2015 10:02:00 AM	12/14/2015 8:11:00 AM	70	60	Customer

Sample Notes:

225645 381509989-0008	Office 100F, Bookshelf 6'	1.3	12/11/2015 10:02:00 AM	12/14/2015 8:11:00 AM	70	60	Customer
--------------------------	------------------------------	-----	---------------------------	--------------------------	----	----	----------

Sample Notes:

Summary for EMSL Kit 133460 **Average Radon Result: 1.3 pCi/L**

Samples for EMSL Kit 133509

Liquid Scintillation ID	Location	Radon Activity pCi/L	Start	Stop	Temperature F	Humidity %	Sample Type
225183 381509989-0009	D	1.4	12/11/2015 10:04:00 AM	12/14/2015 8:12:00 AM	70	60	Customer

Sample Notes:

225102 381509989-0010	D	0.9	12/11/2015 10:04:00 AM	12/14/2015 8:12:00 AM	70	60	Customer
--------------------------	---	-----	---------------------------	--------------------------	----	----	----------

Sample Notes:

Summary for EMSL Kit 133509 **Average Radon Result: 1.1 pCi/L**

Samples for EMSL Kit 133505

Liquid Scintillation ID	Location	Radon Activity pCi/L	Start	Stop	Temperature F	Humidity %	Sample Type
225168 381509989-0011	Classroom 151, W Side, Shelf 6'	0.7	12/11/2015 10:11:00 AM	12/14/2015 8:13:00 AM	70	60	Customer

Sample Notes:

225089 381509989-0012	Classroom 151, W Side, Shelf 6'	0.6	12/11/2015 10:11:00 AM	12/14/2015 8:13:00 AM	70	60	Customer
--------------------------	------------------------------------	-----	---------------------------	--------------------------	----	----	----------

Sample Notes:

Summary for EMSL Kit 133505 **Average Radon Result: 0.6 pCi/L**

**EMSL Analytical, Inc.**

200 Route 130 North, Cinnaminson, NJ 08077

Phone/Fax: (800) 220-3675 / (856) 786-0327

<http://www.EMSL.com>cinnaminsonradonlab@emsl.com

EMSL Order: 381509989

CustomerID: LEID42

CustomerPO:

ProjectID:

Attn: **John Whelpley**
Leidos Engineering, LLC
11951 Freedom Dr.
Reston, VA 20190

Phone: (571) 268-0697
 Fax:
 Received: 12/15/15 12:30 PM
 Analysis Date: 12/16/2015
 Collected: 12/11/2015

Project: **Wilson Wims ES / 12520 Blue Sky Drive**

Test Site: **Wilson Wims ES**
12520 Blue Sky Drive
Clarksburg, MD 20871

Test Report: Radon in Air Test Results**Samples for EMSL Kit 133510**

Liquid Scintillation ID	Location	Radon Activity pCi/L	Start	Stop	Temperature F	Humidity %	Sample Type
225634 381509989-0013	Classroom 147, SW Side, Shelf 6'	0.8	12/11/2015 10:14:00 AM	12/14/2015 8:13:00 AM	70	70	Customer

Sample Notes:

225185 381509989-0014	Classroom 147, SW Side, Shelf 6'	1	12/11/2015 10:14:00 AM	12/14/2015 8:13:00 AM	70	70	Customer
--------------------------	-------------------------------------	---	---------------------------	--------------------------	----	----	----------

Sample Notes:**Summary for EMSL Kit 133510 Average Radon Result: 0.9 pCi/L****Samples for EMSL Kit 133511**

Liquid Scintillation ID	Location	Radon Activity pCi/L	Start	Stop	Temperature F	Humidity %	Sample Type
225164 381509989-0015	Classroom 178, NE Side, Shelf 6'	1.3	12/11/2015 10:17:00 AM	12/14/2015 8:16:00 AM	72	60	Customer

Sample Notes:

225119 381509989-0016	Classroom 178, NE Side, Shelf 6'	1.2	12/11/2015 10:17:00 AM	12/14/2015 8:16:00 AM	72	60	Customer
--------------------------	-------------------------------------	-----	---------------------------	--------------------------	----	----	----------

Sample Notes:**Summary for EMSL Kit 133511 Average Radon Result: 1.3 pCi/L****Samples for EMSL Kit 133504**

Liquid Scintillation ID	Location	Radon Activity pCi/L	Start	Stop	Temperature F	Humidity %	Sample Type
225205 381509989-0017	Classroom 139, SW Side, Shelf 6'	1.4	12/11/2015 10:19:00 AM	12/14/2015 8:15:00 AM	68	70	Customer

Sample Notes:

225188 381509989-0018	Classroom 139, SW Side, Shelf 6'	1.5	12/11/2015 10:19:00 AM	12/14/2015 8:15:00 AM	68	70	Customer
--------------------------	-------------------------------------	-----	---------------------------	--------------------------	----	----	----------

Sample Notes:**Summary for EMSL Kit 133504 Average Radon Result: 1.5 pCi/L**

**EMSL Analytical, Inc.**

200 Route 130 North, Cinnaminson, NJ 08077
 Phone/Fax: (800) 220-3675 / (856) 786-0327
<http://www.EMSL.com> cinnaminsonradonlab@emsl.com

EMSL Order: 381509989
 CustomerID: LEID42
 CustomerPO:
 ProjectID:

Attn: **John Whelpley**
Leidos Engineering, LLC
11951 Freedom Dr.
Reston, VA 20190

Phone: (571) 268-0697
 Fax:
 Received: 12/15/15 12:30 PM
 Analysis Date: 12/16/2015
 Collected: 12/11/2015

Project: **Wilson Wims ES / 12520 Blue Sky Drive**

Test Site: **Wilson Wims ES**
12520 Blue Sky Drive
Clarksburg, MD 20871

Test Report: Radon in Air Test Results**Samples for EMSL Kit 133506**

Liquid Scintillation ID	Location	Radon Activity pCi/L	Start	Stop	Temperature F	Humidity %	Sample Type
225289 381509989-0025	Office 133, W Side, Shelf 6'	1	12/11/2015 10:30:00 AM	12/14/2015 8:23:00 AM	70	60	Customer

Sample Notes:

225640 381509989-0026	Office 133, W Side, Shelf 6'	1.1	12/11/2015 10:30:00 AM	12/14/2015 8:23:00 AM	70	60	Customer
--------------------------	---------------------------------	-----	---------------------------	--------------------------	----	----	----------

Sample Notes:

Summary for EMSL Kit 133506 **Average Radon Result: 1.0 pCi/L**

Samples for EMSL Kit 133502

Liquid Scintillation ID	Location	Radon Activity pCi/L	Start	Stop	Temperature F	Humidity %	Sample Type
225220 381509989-0027	Classroom 160, SW Side, Shelf 6'	1	12/11/2015 10:31:00 AM	12/14/2015 8:24:00 AM	68	60	Customer

Sample Notes:

225158 381509989-0028	Classroom 160, SW Side, Shelf 6'	1	12/11/2015 10:31:00 AM	12/14/2015 8:24:00 AM	68	60	Customer
--------------------------	-------------------------------------	---	---------------------------	--------------------------	----	----	----------

Sample Notes:

Summary for EMSL Kit 133502 **Average Radon Result: 1.0 pCi/L**

Samples for EMSL Kit 133503

Liquid Scintillation ID	Location	Radon Activity pCi/L	Start	Stop	Temperature F	Humidity %	Sample Type
225219 381509989-0029	Classroom 158, NE Side, Shelf 6'	0.8	12/11/2015 10:34:00 AM	12/14/2015 8:55:00 AM	70	60	Customer

Sample Notes:

225264 381509989-0030	Classroom 158, NE Side, Shelf 6'	0.8	12/11/2015 10:34:00 AM	12/14/2015 8:55:00 AM	70	60	Customer
--------------------------	-------------------------------------	-----	---------------------------	--------------------------	----	----	----------

Sample Notes:

Summary for EMSL Kit 133503 **Average Radon Result: 0.8 pCi/L**

**EMSL Analytical, Inc.**

200 Route 130 North, Cinnaminson, NJ 08077
 Phone/Fax: (800) 220-3675 / (856) 786-0327
<http://www.EMSL.com> cinnaminsonradonlab@emsl.com

EMSL Order: 381509989
 CustomerID: LEID42
 CustomerPO:
 ProjectID:

Attn: **John Whelpley**
Leidos Engineering, LLC
11951 Freedom Dr.
Reston, VA 20190

Phone: (571) 268-0697
 Fax:
 Received: 12/15/15 12:30 PM
 Analysis Date: 12/16/2015
 Collected: 12/11/2015

Project: **Wilson Wims ES / 12520 Blue Sky Drive**

Test Site: **Wilson Wims ES**
12520 Blue Sky Drive
Clarksburg, MD 20871

Test Report: Radon in Air Test Results**Samples for EMSL Kit 133521**

Liquid Scintillation ID	Location	Radon Activity pCi/L	Start	Stop	Temperature F	Humidity %	Sample Type
225135 381509989-0031	Classroom 154, NE Side, Shelf 6'	1	12/11/2015 10:37:00 AM	12/14/2015 8:26:00 AM	74	40	Customer

Sample Notes:

225262 381509989-0032	Classroom 154, NE Side, Shelf 6'	1	12/11/2015 10:37:00 AM	12/14/2015 8:26:00 AM	74	40	Customer
--------------------------	-------------------------------------	---	---------------------------	--------------------------	----	----	----------

Sample Notes:

Summary for EMSL Kit 133521 Average Radon Result: 1.0 pCi/L

Samples for EMSL Kit 133463

Liquid Scintillation ID	Location	Radon Activity pCi/L	Start	Stop	Temperature F	Humidity %	Sample Type
225611 381509989-0033	Classroom 150, SW Side, Shelf 6'	1.1	12/11/2015 10:38:00 AM	12/14/2015 8:27:00 AM	68	60	Customer

Sample Notes:

225605 381509989-0034	Classroom 150, SW Side, Shelf 6'	1	12/11/2015 10:38:00 AM	12/14/2015 8:27:00 AM	68	60	Customer
--------------------------	-------------------------------------	---	---------------------------	--------------------------	----	----	----------

Sample Notes:

Summary for EMSL Kit 133463 Average Radon Result: 1.0 pCi/L

Samples for EMSL Kit 133507

Liquid Scintillation ID	Location	Radon Activity pCi/L	Start	Stop	Temperature F	Humidity %	Sample Type
225194 381509989-0035	Classroom 144, SE Side, Shelf 6'	1.1	12/11/2015 10:41:00 AM	12/14/2015 8:28:00 AM	76	70	Customer

Sample Notes:

225208 381509989-0036	Classroom 144, SE Side, Shelf 6'	1	12/11/2015 10:41:00 AM	12/14/2015 8:28:00 AM	76	70	Customer
--------------------------	-------------------------------------	---	---------------------------	--------------------------	----	----	----------

Sample Notes:

Summary for EMSL Kit 133507 Average Radon Result: 1.0 pCi/L

**EMSL Analytical, Inc.**

200 Route 130 North, Cinnaminson, NJ 08077
 Phone/Fax: (800) 220-3675 / (856) 786-0327
<http://www.EMSL.com> cinnaminsonradonlab@emsl.com

EMSL Order: 381509989
 CustomerID: LEID42
 CustomerPO:
 ProjectID:

Attn: **John Whelpley**
Leidos Engineering, LLC
11951 Freedom Dr.
Reston, VA 20190

Phone: (571) 268-0697
 Fax:
 Received: 12/15/15 12:30 PM
 Analysis Date: 12/16/2015
 Collected: 12/11/2015

Project: **Wilson Wims ES / 12520 Blue Sky Drive**

Test Site: **Wilson Wims ES**
12520 Blue Sky Drive
Clarksburg, MD 20871

Test Report: Radon in Air Test Results**Samples for EMSL Kit 133473**

Liquid Scintillation ID	Location	Radon Activity pCi/L	Start	Stop	Temperature F	Humidity %	Sample Type
225622 381509989-0037	Classroom 140, NW Side, Shelf 6'	0.6	12/11/2015 10:44:00 AM	12/14/2015 8:29:00 AM	76	50	Customer

Sample Notes:

225107 381509989-0038	Classroom 140, NW Side, Shelf 6'	0.7	12/11/2015 10:44:00 AM	12/14/2015 8:29:00 AM	76	50	Customer
--------------------------	-------------------------------------	-----	---------------------------	--------------------------	----	----	----------

Sample Notes:

Summary for EMSL Kit 133473 Average Radon Result: 0.6 pCi/L

Samples for EMSL Kit 133482

Liquid Scintillation ID	Location	Radon Activity pCi/L	Start	Stop	Temperature F	Humidity %	Sample Type
225081 381509989-0039	Classroom 125, Shelf 6'	0.8	12/11/2015 10:47:00 AM	12/14/2015 8:30:00 AM	80	30	Customer

Sample Notes:

225101 381509989-0040	Classroom 125, Shelf 6'	1	12/11/2015 10:47:00 AM	12/14/2015 8:30:00 AM	80	30	Customer
--------------------------	----------------------------	---	---------------------------	--------------------------	----	----	----------

Sample Notes:

Summary for EMSL Kit 133482 Average Radon Result: 0.9 pCi/L

Samples for EMSL Kit 133489

Liquid Scintillation ID	Location	Radon Activity pCi/L	Start	Stop	Temperature F	Humidity %	Sample Type
225212 381509989-0041	D	1	12/11/2015 10:49:00 AM	12/14/2015 8:31:00 AM	80	30	Customer

Sample Notes:

225203 381509989-0042	D	0.9	12/11/2015 10:49:00 AM	12/14/2015 8:31:00 AM	80	30	Customer
--------------------------	---	-----	---------------------------	--------------------------	----	----	----------

Sample Notes:

Summary for EMSL Kit 133489 Average Radon Result: 0.9 pCi/L

**EMSL Analytical, Inc.**

200 Route 130 North, Cinnaminson, NJ 08077
 Phone/Fax: (800) 220-3675 / (856) 786-0327
<http://www.EMSL.com> cinnaminsonradonlab@emsl.com

EMSL Order: 381509989
 CustomerID: LEID42
 CustomerPO:
 ProjectID:

Attn: **John Whelpley**
Leidos Engineering, LLC
11951 Freedom Dr.
Reston, VA 20190

Phone: (571) 268-0697
 Fax:
 Received: 12/15/15 12:30 PM
 Analysis Date: 12/16/2015
 Collected: 12/11/2015

Project: **Wilson Wims ES / 12520 Blue Sky Drive**

Test Site: **Wilson Wims ES**
12520 Blue Sky Drive
Clarksburg, MD 20871

Test Report: Radon in Air Test Results**Samples for EMSL Kit 133496**

Liquid Scintillation ID	Location	Radon Activity pCi/L	Start	Stop	Temperature F	Humidity %	Sample Type
225633 381509989-0043	Classroom 136, SE Side, Shelf 6'	0.7	12/11/2015 10:53:00 AM	12/14/2015 8:32:00 AM	72	60	Customer

Sample Notes:

225163 381509989-0044	Classroom 136, SE Side, Shelf 6'	1	12/11/2015 10:53:00 AM	12/14/2015 8:32:00 AM	72	60	Customer
--------------------------	-------------------------------------	---	---------------------------	--------------------------	----	----	----------

Sample Notes:

Summary for EMSL Kit 133496 **Average Radon Result: 0.9 pCi/L**

Samples for EMSL Kit 133468

Liquid Scintillation ID	Location	Radon Activity pCi/L	Start	Stop	Temperature F	Humidity %	Sample Type
225086 381509989-0045	Classroom 121, SE Side, Shelf 6'	0.7	12/11/2015 10:55:00 AM	12/14/2015 8:33:00 AM	72	50	Customer

Sample Notes:

225187 381509989-0046	Classroom 121, SE Side, Shelf 6'	0.8	12/11/2015 10:55:00 AM	12/14/2015 8:33:00 AM	72	50	Customer
--------------------------	-------------------------------------	-----	---------------------------	--------------------------	----	----	----------

Sample Notes:

Summary for EMSL Kit 133468 **Average Radon Result: 0.8 pCi/L**

Samples for EMSL Kit 133458

Liquid Scintillation ID	Location	Radon Activity pCi/L	Start	Stop	Temperature F	Humidity %	Sample Type
225632 381509989-0047	Classroom 134, NW Side, Shelf 6'	0.6	12/11/2015 10:57:00 AM	12/14/2015 8:34:00 AM	74	30	Customer

Sample Notes:

225231 381509989-0048	Classroom 134, NW Side, Shelf 6'	0.6	12/11/2015 10:57:00 AM	12/14/2015 8:34:00 AM	74	30	Customer
--------------------------	-------------------------------------	-----	---------------------------	--------------------------	----	----	----------

Sample Notes:

Summary for EMSL Kit 133458 **Average Radon Result: 0.6 pCi/L**

**EMSL Analytical, Inc.**

200 Route 130 North, Cinnaminson, NJ 08077
 Phone/Fax: (800) 220-3675 / (856) 786-0327
<http://www.EMSL.com> cinnaminsonradonlab@emsl.com

EMSL Order: 381509989
 CustomerID: LEID42
 CustomerPO:
 ProjectID:

Attn: **John Whelpley**
Leidos Engineering, LLC
11951 Freedom Dr.
Reston, VA 20190

Phone: (571) 268-0697
 Fax:
 Received: 12/15/15 12:30 PM
 Analysis Date: 12/16/2015
 Collected: 12/11/2015

Project: **Wilson Wims ES / 12520 Blue Sky Drive**

Test Site: **Wilson Wims ES**
12520 Blue Sky Drive
Clarksburg, MD 20871

Test Report: Radon in Air Test Results**Samples for EMSL Kit 133477**

Liquid Scintillation ID	Location	Radon Activity pCi/L	Start	Stop	Temperature F	Humidity %	Sample Type
225103 381509989-0055	Classroom 186, NW Side, Shelf 6'	0.5	12/11/2015 11:09:00 AM	12/14/2015 8:37:00 AM	70	60	Customer

Sample Notes:

225175 381509989-0056	Classroom 186, NW Side, Shelf 6'	0.7	12/11/2015 11:09:00 AM	12/14/2015 8:37:00 AM	70	60	Customer
--------------------------	-------------------------------------	-----	---------------------------	--------------------------	----	----	----------

Sample Notes:

Summary for EMSL Kit 133477 Average Radon Result: **0.6 pCi/L**

Samples for EMSL Kit 133476

Liquid Scintillation ID	Location	Radon Activity pCi/L	Start	Stop	Temperature F	Humidity %	Sample Type
225202 381509989-0057	Classroom 188, NE Side, Shelf 6'	0.6	12/11/2015 11:11:00 AM	12/14/2015 8:38:00 AM	70	60	Customer

Sample Notes:

225184 381509989-0058	Classroom 188, NE Side, Shelf 6'	0.6	12/11/2015 11:11:00 AM	12/14/2015 8:38:00 AM	70	60	Customer
--------------------------	-------------------------------------	-----	---------------------------	--------------------------	----	----	----------

Sample Notes:

Summary for EMSL Kit 133476 Average Radon Result: **0.6 pCi/L**

Samples for EMSL Kit 133464

Liquid Scintillation ID	Location	Radon Activity pCi/L	Start	Stop	Temperature F	Humidity %	Sample Type
225218 381509989-0059	Classroom 190, NW Side, Shelf 6'	0.7	12/11/2015 11:12:00 AM	12/14/2015 8:39:00 AM	76	60	Customer

Sample Notes:

225204 381509989-0060	Classroom 190, NW Side, Shelf 6'	0.5	12/11/2015 11:12:00 AM	12/14/2015 8:39:00 AM	76	60	Customer
--------------------------	-------------------------------------	-----	---------------------------	--------------------------	----	----	----------

Sample Notes:

Summary for EMSL Kit 133464 Average Radon Result: **0.6 pCi/L**

**EMSL Analytical, Inc.**

200 Route 130 North, Cinnaminson, NJ 08077
 Phone/Fax: (800) 220-3675 / (856) 786-0327
<http://www.EMSL.com> cinnaminsonradonlab@emsl.com

EMSL Order: 381509989
 CustomerID: LEID42
 CustomerPO:
 ProjectID:

Attn: **John Whelpley**
Leidos Engineering, LLC
11951 Freedom Dr.
Reston, VA 20190

Phone: (571) 268-0697
 Fax:
 Received: 12/15/15 12:30 PM
 Analysis Date: 12/16/2015
 Collected: 12/11/2015

Project: **Wilson Wims ES / 12520 Blue Sky Drive**

Test Site: **Wilson Wims ES**
12520 Blue Sky Drive
Clarksburg, MD 20871

Test Report: Radon in Air Test Results**Samples for EMSL Kit 133475**

Liquid Scintillation ID	Location	Radon Activity pCi/L	Start	Stop	Temperature F	Humidity %	Sample Type
225255	D	0.5	12/11/2015	12/14/2015	76	60	Customer
381509989-0061			11:14:00 AM	8:40:00 AM			

Sample Notes:

225249	D	0.6	12/11/2015	12/14/2015	76	60	Customer
381509989-0062			11:14:00 AM	8:40:00 AM			

Sample Notes:

Summary for EMSL Kit 133475 **Average Radon Result: 0.6 pCi/L**

Samples for EMSL Kit 133522

Liquid Scintillation ID	Location	Radon Activity pCi/L	Start	Stop	Temperature F	Humidity %	Sample Type
225124	Classroom 192, NW Side, Shelf 6'	0.5	12/11/2015	12/14/2015	70	50	Customer
381509989-0063			11:17:00 AM	8:41:00 AM			

Sample Notes:

225166	Classroom 192, NW Side, Shelf 6'	0.4	12/11/2015	12/14/2015	70	50	Customer
381509989-0064			11:17:00 AM	8:41:00 AM			

Sample Notes:

Summary for EMSL Kit 133522 **Average Radon Result: 0.4 pCi/L**

Samples for EMSL Kit 133478

Liquid Scintillation ID	Location	Radon Activity pCi/L	Start	Stop	Temperature F	Humidity %	Sample Type
225213	Classroom 113, NE Side, Computer Shelf 5'	0.7	12/11/2015	12/14/2015	70	60	Customer
381509989-0065			11:20:00 AM	8:45:00 AM			

Sample Notes:

225196	Classroom 113, NE Side, Computer Shelf 5'	0.6	12/11/2015	12/14/2015	70	60	Customer
381509989-0066			11:20:00 AM	8:45:00 AM			

Sample Notes:

Summary for EMSL Kit 133478 **Average Radon Result: 0.6 pCi/L**

**EMSL Analytical, Inc.**

200 Route 130 North, Cinnaminson, NJ 08077
 Phone/Fax: (800) 220-3675 / (856) 786-0327
<http://www.EMSL.com> cinnaminsonradonlab@emsl.com

EMSL Order: 381509989
 CustomerID: LEID42
 CustomerPO:
 ProjectID:

Attn: **John Whelpley**
Leidos Engineering, LLC
11951 Freedom Dr.
Reston, VA 20190

Phone: (571) 268-0697
 Fax:
 Received: 12/15/15 12:30 PM
 Analysis Date: 12/16/2015
 Collected: 12/11/2015

Project: **Wilson Wims ES / 12520 Blue Sky Drive**

Test Site: **Wilson Wims ES**
12520 Blue Sky Drive
Clarksburg, MD 20871

Test Report: Radon in Air Test Results**Samples for EMSL Kit 133474**

Liquid Scintillation ID	Location	Radon Activity pCi/L	Start	Stop	Temperature F	Humidity %	Sample Type
225195 381509989-0067	Library 107, NE Side, Bookshelf 6'	0.8	12/11/2015 11:24:00 AM	12/14/2015 8:49:00 AM	70	70	Customer

Sample Notes:

225200 381509989-0068	Library 107, NE Side, Bookshelf 6'	0.6	12/11/2015 11:24:00 AM	12/14/2015 8:49:00 AM	70	70	Customer
--------------------------	---------------------------------------	-----	---------------------------	--------------------------	----	----	----------

Sample Notes:

Summary for EMSL Kit 133474 Average Radon Result: 0.7 pCi/L

Samples for EMSL Kit 133472

Liquid Scintillation ID	Location	Radon Activity pCi/L	Start	Stop	Temperature F	Humidity %	Sample Type
225197 381509989-0069	Library 107, SW Side, Bookshelf 6'	0.9	12/11/2015 11:25:00 AM	12/14/2015 8:50:00 AM	70	70	Customer

Sample Notes:

225250 381509989-0070	Library 107, SW Side, Bookshelf 6'	0.8	12/11/2015 11:25:00 AM	12/14/2015 8:50:00 AM	70	70	Customer
--------------------------	---------------------------------------	-----	---------------------------	--------------------------	----	----	----------

Sample Notes:

Summary for EMSL Kit 133472 Average Radon Result: 0.9 pCi/L

Samples for EMSL Kit 133490

Liquid Scintillation ID	Location	Radon Activity pCi/L	Start	Stop	Temperature F	Humidity %	Sample Type
225603 381509989-0071	Library Office 111, NE Side, Shelf 6'	0.6	12/11/2015 11:29:00 AM	12/14/2015 8:52:00 AM	76	70	Customer

Sample Notes:

225098 381509989-0072	Library Office 111, NE Side, Shelf 6'	0.6	12/11/2015 11:29:00 AM	12/14/2015 8:52:00 AM	76	70	Customer
--------------------------	--	-----	---------------------------	--------------------------	----	----	----------

Sample Notes:

Summary for EMSL Kit 133490 Average Radon Result: 0.6 pCi/L

**EMSL Analytical, Inc.**

200 Route 130 North, Cinnaminson, NJ 08077

Phone/Fax: (800) 220-3675 / (856) 786-0327

<http://www.EMSL.com>cinnaminsonradonlab@emsl.com

EMSL Order: 381509989

CustomerID: LEID42

CustomerPO:

ProjectID:

Attn: **John Whelpley**
Leidos Engineering, LLC
11951 Freedom Dr.
Reston, VA 20190

Phone: (571) 268-0697
 Fax:
 Received: 12/15/15 12:30 PM
 Analysis Date: 12/16/2015
 Collected: 12/11/2015

Project: **Wilson Wims ES / 12520 Blue Sky Drive**

Test Site: **Wilson Wims ES**
12520 Blue Sky Drive
Clarksburg, MD 20871

Test Report: Radon in Air Test Results**Samples for EMSL Kit 133483**

Liquid Scintillation ID	Location	Radon Activity pCi/L	Start	Stop	Temperature F	Humidity %	Sample Type
225112 381509989-0073	Classroom 180, E Side, Shelf 6'	0.7	12/11/2015 11:33:00 AM	12/14/2015 8:14:00 AM	74	60	Customer

Sample Notes:

225110 381509989-0074	Classroom 180, E Side, Shelf 6'	0.8	12/11/2015 11:33:00 AM	12/14/2015 8:14:00 AM	74	60	Customer
--------------------------	------------------------------------	-----	---------------------------	--------------------------	----	----	----------

Sample Notes:**Summary for EMSL Kit 133483 Average Radon Result: 0.8 pCi/L****Samples for EMSL Kit 133461**

Liquid Scintillation ID	Location	Radon Activity pCi/L	Start	Stop	Temperature F	Humidity %	Sample Type
225210 381509989-0075	Classroom 172, Shelf 6'	0.8	12/11/2015 11:34:00 AM	12/14/2015 8:20:00 AM	68	60	Customer

Sample Notes:

225287 381509989-0076	Classroom 172, Shelf 6'	1.1	12/11/2015 11:34:00 AM	12/14/2015 8:20:00 AM	68	60	Customer
--------------------------	----------------------------	-----	---------------------------	--------------------------	----	----	----------

Sample Notes:**Summary for EMSL Kit 133461 Average Radon Result: 1.0 pCi/L****Samples for EMSL Kit 133469**

Liquid Scintillation ID	Location	Radon Activity pCi/L	Start	Stop	Temperature F	Humidity %	Sample Type
225602 381509989-0077	Classroom 160, Shelf 6'	1.3	12/11/2015 11:41:00 AM	12/14/2015 8:22:00 AM	76	30	Customer

Sample Notes:

225311 381509989-0078	Classroom 160, Shelf 6'	1	12/11/2015 11:41:00 AM	12/14/2015 8:22:00 AM	76	30	Customer
--------------------------	----------------------------	---	---------------------------	--------------------------	----	----	----------

Sample Notes:**Summary for EMSL Kit 133469 Average Radon Result: 1.1 pCi/L**

**EMSL Analytical, Inc.**

200 Route 130 North, Cinnaminson, NJ 08077
 Phone/Fax: (800) 220-3675 / (856) 786-0327
<http://www.EMSL.com> cinnaminsonradonlab@emsl.com

EMSL Order: 381509989
 CustomerID: LEID42
 CustomerPO:
 ProjectID:

Attn: **John Whelpley**
Leidos Engineering, LLC
11951 Freedom Dr.
Reston, VA 20190

Phone: (571) 268-0697
 Fax:
 Received: 12/15/15 12:30 PM
 Analysis Date: 12/16/2015
 Collected: 12/11/2015

Project: **Wilson Wims ES / 12520 Blue Sky Drive**

Test Site: **Wilson Wims ES**
12520 Blue Sky Drive
Clarksburg, MD 20871

Test Report: Radon in Air Test Results**Samples for EMSL Kit 133485**

Liquid Scintillation ID	Location	Radon Activity pCi/L	Start	Stop	Temperature F	Humidity %	Sample Type
225161 381509989-0079	Kitchen Office 110B, W Side, F. 5'	0.3	12/11/2015 11:46:00 AM	12/14/2015 8:46:00 AM	72	60	Customer

Sample Notes:

225193 381509989-0080	Kitchen Office 110B, W Side, F. 5'	0.2	12/11/2015 11:46:00 AM	12/14/2015 8:46:00 AM	72	60	Customer
--------------------------	---------------------------------------	-----	---------------------------	--------------------------	----	----	----------

Sample Notes:

Summary for EMSL Kit 133485 **Average Radon Result: 0.3 pCi/L**

Samples for EMSL Kit 133462

Liquid Scintillation ID	Location	Radon Activity pCi/L	Start	Stop	Temperature F	Humidity %	Sample Type
225221 381509989-0081	D	0.1	12/11/2015 11:48:00 AM	12/14/2015 8:47:00 AM	72	60	Customer

Sample Notes:

225275 381509989-0082	D	0.3	12/11/2015 11:48:00 AM	12/14/2015 8:47:00 AM	72	60	Customer
--------------------------	---	-----	---------------------------	--------------------------	----	----	----------

Sample Notes:

Summary for EMSL Kit 133462 **Average Radon Result: 0.2 pCi/L**

Samples for EMSL Kit 133465

Liquid Scintillation ID	Location	Radon Activity pCi/L	Start	Stop	Temperature F	Humidity %	Sample Type
225104 381509989-0083	APR, Cafeteria, Elec. C. 5'	0.4	12/11/2015 11:49:00 AM	12/14/2015 8:48:00 AM	70	70	Customer

Sample Notes:

225318 381509989-0084	APR, Cafeteria, Elec. C. 5'	0.3	12/11/2015 11:49:00 AM	12/14/2015 8:48:00 AM	70	70	Customer
--------------------------	--------------------------------	-----	---------------------------	--------------------------	----	----	----------

Sample Notes:

Summary for EMSL Kit 133465 **Average Radon Result: 0.4 pCi/L**



EMSL Analytical, Inc.

200 Route 130 North, Cinnaminson, NJ 08077
Phone/Fax: (800) 220-3675 / (856) 786-0327
<http://www.EMSL.com> cinnaminsonradonlab@emsl.com

EMSL Order: 381509989
CustomerID: LEID42
CustomerPO:
ProjectID:

Attn: **John Whelpley**
Leidos Engineering, LLC
11951 Freedom Dr.
Reston, VA 20190

Phone: (571) 268-0697
Fax:
Received: 12/15/15 12:30 PM
Analysis Date: 12/16/2015
Collected: 12/11/2015

Project: **Wilson Wims ES / 12520 Blue Sky Drive**

Test Site: **Wilson Wims ES**
12520 Blue Sky Drive
Clarksburg, MD 20871

Test Report: Radon in Air Test Results

Samples for EMSL Kit 133470

Liquid Scintillation ID	Location	Radon Activity pCi/L	Start	Stop	Temperature F	Humidity %	Sample Type
225635 381509989-0085	Gym Office, 187A, S. Side, Shelf 6'	0.7	12/11/2015 11:53:00 AM	12/14/2015 8:43:00 AM	78	70	Customer

Sample Notes:

225182 381509989-0086	Gym Office, 187A, S. Side, Shelf 6'	0.6	12/11/2015 11:53:00 AM	12/14/2015 8:43:00 AM	78	70	Customer
--------------------------	-------------------------------------	-----	---------------------------	--------------------------	----	----	----------

Sample Notes:

Summary for EMSL Kit 133470 **Average Radon Result: 0.6 pCi/L**

The radon test was performed using a liquid scintillation radon detector/s and counted on a liquid scintillation counter using approved EPA testing protocols for Radon in Air testing. The EPA recommends fixing your home if the average of two short-term tests taken in the lowest lived-in level of the home show radon levels that are equal to or greater than 4.0pCi/L. The EPA recommends retesting your home every two years.

Please contact EMSL Analytical, Inc. or your State Health Department for further information. All procedures used for generating this report are in complete accordance with the current EPA protocols for the analysis of Radon in Air.

Report Note

Analyst(s)
Tiffanie Cosgrove (86)

Laura Freeman Subash Rashat
Laura Freeman, Interim Laboratory Manager &
Subash Rashat, New Jersey Radiation Specialist NJ MES 10152
or other approved signatory

In no event shall EMSL be liable for indirect, special, consequential, or incidental damages, including, but not limited to, damages for loss of profit or goodwill regardless of the negligence (either sole or concurrent) of EMSL and whether EMSL has been informed of the possibility of such damages, arising out of or in connection with EMSL's services thereunder or the delivery, use, reliance upon or interpretation of test results by client or any third party. We accept no legal responsibility for the purposes for which the client uses the test results. In no event shall EMSL be liable to a client or any third party, whether based upon theories of tort, contract or any other legal or equitable theory, in excess of the amount paid to EMSL by client thereunder. The test results meets all NELAC requirements unless otherwise specified. Accreditations: NRSB ARL6006, NJ DEP 03036, MEB 92525, PA 2573, IN 00455, IA L00032, RI RAS-024, ME 20200C, NE RMB-1083, NY ELAP 10872, NM 885-10L, FL RB2034, OH RL-39, NRPP #106178AL, KS-LB-0005

Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ Accreditations: NRSB ARL6006, NJ DEP 03036, MEB 92525, PA 2573, IN 00455, IA L00032, RI RAS-024, ME 20200C, NE RMB-1083, NY ELAP 10872, NM 885-10L, FL RB2034, OH RL-39, NRPP #106178AL, KS-LB-0005. Subash Rashat certification #MES10152

Initial report from 12/18/2015 10:59:55

Please visit www.radontestinglab.com

RADON SURVEY SCREENING REPORT – FOLLOW-UP
WILSON WIMS ELEMENTARY SCHOOL
12520 Blue Sky Drive, Clarksburg, Maryland 20871
5 February 2016



EXECUTIVE SUMMARY

Name of Facility:	Wilson Wims Elementary School, Clarksburg, MD
Date of Test Report:	5 February 2016
Round of Testing:	Initial Follow-up Post Remediation
# rooms tested:	3 (Second Floor)
# rooms \geq 4.0 pCi/L:	None
Low Value:	0.2 pCi/L
High Value:	0.4 pCi/L

At the request of Montgomery County Public Schools (MCPS), Leidos conducted a follow-up radon gas screening survey at Wilson Wims Elementary School (ES) for the occupied classrooms and offices on the second floor. On 28 December 2015, John Whelpley, P.E. (Leidos) installed sampling kits in ten percent of the 26 occupied classrooms and offices (i.e., three) on the second floor of Wilson Wims ES. The locations of these three sampling locations are shown in Figure 1.

The radon screening survey followed the USEPA protocols including placing a dual sampling device in each room selected as a sampling location. Each device or kit contains two activated charcoal adsorption devices, set at a distance of 4 inches apart. A photograph of the radon sampling kit is shown in Figure 2. Each radon sampling kit was placed at least 20 inches above the ground surface, and was usually placed on top of a surface such as a 5-foot file cabinet or 6-foot shelf to avoid contact by students during the 3-day sampling period. The radon sampling kits were also placed away from exterior walls and windows, out of direct sunlight, and away from HVAC vents as much as possible.

The radon test kits were installed on Monday afternoon and were then picked up on Thursday morning (i.e., approximately 67 hours later). According to the Building Services personnel, the HVAC system was functioning in the school during the testing period and no exterior windows were open during the testing period. The average outdoor temperature (46 degrees F), humidity (80%), wind (4 mph), and total precipitation (0.63 inches) during the December 28-31 testing period were obtained from Weather Underground (www.weatherunderground.com).

In accordance with the American Association of Radon Scientist and Technologist (AARST) recommendations, ten percent of the 26 occupied classrooms and offices on the second floor were sampled. All 37 occupied classrooms and offices on the first floor had been sampled over the December 11-14 period and the maximum radon gas detection was 1.8 pCi/L in those rooms.

The radon test kits were shipped to EMSL Analytical, Inc. in Cinnaminson, NJ, on 31 December 2015 for analysis by liquid scintillation counter using the USEPA testing protocols for testing Radon in Air. EMSL is accredited by the National Radon Safety Board (NRSB) under ARL6006 for radon analysis and the radon test kits are approved devices by the NRSB under

#12199. A total of five paired devices were submitted for analysis, including the screening samples for three sampling locations, one duplicate sample, and one field blank. The Chain of Custody for the shipment of the radon test kits is shown in Appendix B. The laboratory analysis results are shown in Appendix C and are summarized in the table in Appendix A.

As shown in the table in Appendix A, none of the rooms had radon results above the USEPA Action Level of 4 Picocuries per Liter (pCi/L). Office 256 had an average radon result of 0.2 pCi/L whereas Classroom 232 had an average radon result of 0.3 pCi/L and Classroom 212 had an average radon result of 0.4 pCi/L. As a result, in accordance with the USEPA procedures, none of the second floor rooms require retesting in the short term.

As part of the USEPA Quality Assurance (QA) procedures, Leidos also collected one duplicate and one field blank. The WW 45 duplicate had an average relative percent difference (ARPD) of 33% which is above the QA limit of 25%. However, the original sample (WW 44) with 0.2 pCi/L and the duplicate (WW 45) with 0.3 pCi/L are both very near the detection limit so the ARPD is not indicative of poor QA procedures in this case. In addition, the WW 48 field blank was less than the QA limit of 1.0 pCi/L.

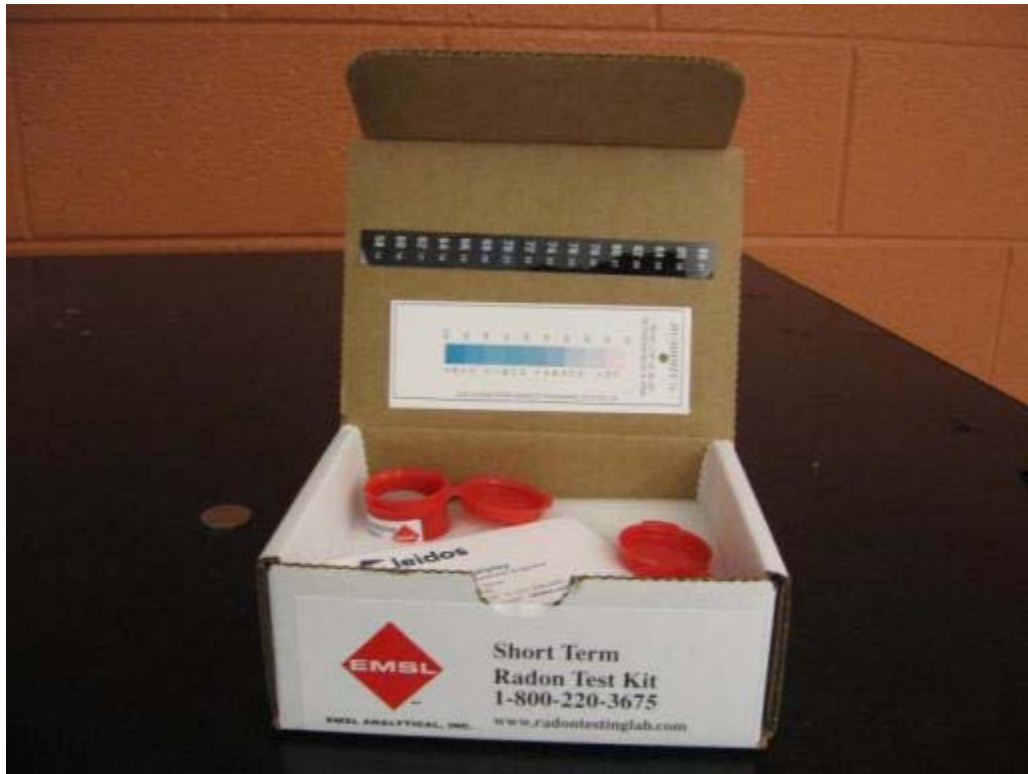


Figure 2. Photograph of Typical Radon Test Kit With Dual Devices

Appendix A. Radon Survey Results – Follow-up

Unique Sample Identifier	Sample Location Description (Room Number, Area)	Sample Result
231754	WW 44- Office 256, Northeast side, 6 ft shelf	0.2
231788	WW 44- Office 256, Northeast side, 6 ft shelf	0.2
231859	WW 45 - Office 256, Northeast side, 6 ft shelf	0.4
231880	WW 45 - Office 256, Northeast side, 6 ft shelf	0.2
231856	WW 46 - Classroom 232, Northeast side, 6 ft shelf	0.2
231878	WW 46 - Classroom 232, Northeast side, 6 ft shelf	0.3
231742	WW 47 - Classroom 212, Southwest side, 6 ft shelf	0.4
231855	WW 47 - Classroom 212, Southwest side, 6 ft shelf	0.3
231763	WW 48 - Field Blank	-0.1
231819	WW 48 - Field Blank	0.0

Appendix B. Chain of Custody – Follow-up

MTF



EMSL ANALYTICAL, INC.

**CHAIN OF CUSTODY
RADON LABORATORY SERVICES
(COMMERCIAL USE) CINNAMINSON, N.J.**

EMSL ANALYTICAL, INC.
200 ROUTE 130 NORTH
CINNAMINSON, NJ 08077
PHONE: 800-220-3675
FAX: 856-786-0327

EMSL Job #: 381600092
2016 JAN -5 P 2:30

Company Information

Company Name: Leidos
 EMSL Account #: LEID42 Bday
 Contact: John Whelpley
 Address: 11951 Fred Dr
 City: Reston
 State: VA Zip Code: 20190
 Phone: 571-268-0697
 Fax: -
 Email: whelpley.j@leidos.com

Project / Property Information:

Name: Wilson Wims ES
 Address: 12520 Blue Sky Drive
 City: Clarksburg
 Municipality: - County: Montgomery
 State: MD Zip Code: 20871
 PO#/Project#: 316041.00.00.001
 Please check box if this is a Post Mitigation Test
 Technician Name: John Whelpley
 Technician Certification #: -
 Technician Signature: John Whelpley

Disclaimer

In no event shall EMSL be liable for indirect, special, consequential, or incidental damages for loss of profit or goodwill regardless of the negligence (either sole or concurrent) of EMSL and whether EMSL has been informed of the possibility of such damages arising out of or in connection with EMSL's services there under or the delivery, use, reliance upon or interpretation of test results by client or third party. We accept no legal responsibility for the purposes for which the client uses the test results. In no event shall EMSL be liable to a client or any third party, whether based upon theories of tort, contract or any other legal or equitable theory, in excess of the amount paid to EMSL by client thereafter.

Box Number	Device Number	Location	Exposure Period Beginning Date and Time	Exposure Period Ending Date and Time	Temperature, °F	Humidity, %
NW44	136290	Office 256 NE side, 6' shelf	12/28/15 1521	12/31/15 1012	68°	40%
	231788	" "	" "	" "	"	"
NW45	136293	D	12/28/15 1523	12/31/15 1013	68°	40%
	231880	D	" "	" "	"	"
NW46	136287	Classroom 232 NE side, 6' shelf	12/28/15 1525	12/31/15 1010	68°	40%
	231878	" "	" "	" "	"	"
NW47	136288	Classroom 212 SW side, 6' shelf	12/28/15 1528	12/31/15 1009	68°	40%
	231855	" "	" "	" "	"	"
NW48	136289	B	12/28/15 1530	12/31/15 1020	72°	60%
	231819	B	" "	" "	"	"

Relinquished By: John Whelpley 1400 to UPS
 Received By:

Appendix C. Laboratory Results – Follow-up

**EMSL Analytical, Inc.**

200 Route 130 North, Cinnaminson, NJ 08077
 Phone/Fax: (800) 220-3675 / (856) 786-0327
<http://www.EMSL.com> cinnaminsonradonlab@emsl.com

EMSL Order: 381600092
 CustomerID: LEID42
 CustomerPO: 316041.00.00
 ProjectID:

Attn: **John Whelpley**
Leidos Engineering, LLC
11951 Freedom Dr.
Reston, VA 20190

Phone: (571) 268-0697
 Fax:
 Received: 01/05/16 2:30 PM
 Analysis Date: 1/6/2016
 Collected: 12/28/2015

Project: **Wimses / 12520 Blue Sky Drive**

Test Site: **Wilson Wimses**
12520 Blue Sky Drive
Clarksburg, MD 20871

Test Report: Radon in Air Test Results**Samples for EMSL Kit 136290**

Liquid Scintillation ID	Location	Radon Activity pCi/L	Start	Stop	Temperature F	Humidity %	Sample Type
231754 381600092-0001	Office 256 / NE Side / 6' Shelf	0.2	12/28/2015 3:21:00 PM	12/31/2015 10:12:00 AM	68	40	Customer

Sample Notes:

231788 381600092-0002	Office 256 / NE Side / 6' Shelf	0.2	12/28/2015 3:21:00 PM	12/31/2015 10:12:00 AM	68	40	Customer
--------------------------	------------------------------------	-----	--------------------------	---------------------------	----	----	----------

Sample Notes:

Summary for EMSL Kit 136290 **Average Radon Result: 0.2 pCi/L**

Samples for EMSL Kit 136293

Liquid Scintillation ID	Location	Radon Activity pCi/L	Start	Stop	Temperature F	Humidity %	Sample Type
231859 381600092-0003	D	0.4	12/28/2015 3:23:00 PM	12/31/2015 10:13:00 AM	68	40	Customer

Sample Notes:

231880 381600092-0004	D	0.2	12/28/2015 3:23:00 PM	12/31/2015 10:13:00 AM	68	40	Customer
--------------------------	---	-----	--------------------------	---------------------------	----	----	----------

Sample Notes:

Summary for EMSL Kit 136293 **Average Radon Result: 0.3 pCi/L**

Samples for EMSL Kit 136287

Liquid Scintillation ID	Location	Radon Activity pCi/L	Start	Stop	Temperature F	Humidity %	Sample Type
231856 381600092-0005	Classroom 232 / NE Side / 6' Shelf	0.2	12/28/2015 3:25:00 PM	12/31/2015 10:10:00 AM	68	40	Customer

Sample Notes:

231878 381600092-0006	Classroom 232 / NE Side / 6' Shelf	0.3	12/28/2015 3:25:00 PM	12/31/2015 10:10:00 AM	68	40	Customer
--------------------------	---------------------------------------	-----	--------------------------	---------------------------	----	----	----------

Sample Notes:

Summary for EMSL Kit 136287 **Average Radon Result: 0.3 pCi/L**

**EMSL Analytical, Inc.**

200 Route 130 North, Cinnaminson, NJ 08077
 Phone/Fax: (800) 220-3675 / (856) 786-0327
<http://www.EMSL.com> cinnaminsonradonlab@emsl.com

EMSL Order: 381600092
 CustomerID: LEID42
 CustomerPO: 316041.00.00
 ProjectID:

Attn: **John Whelpley**
Leidos Engineering, LLC
11951 Freedom Dr.
Reston, VA 20190

Phone: (571) 268-0697
 Fax:
 Received: 01/05/16 2:30 PM
 Analysis Date: 1/6/2016
 Collected: 12/28/2015

Project: **Wimses / 12520 Blue Sky Drive**

Test Site: **Wilson Wimses**
12520 Blue Sky Drive
Clarksburg, MD 20871

Test Report: Radon in Air Test Results**Samples for EMSL Kit 136288**

Liquid Scintillation ID	Location	Radon Activity pCi/L	Start	Stop	Temperature F	Humidity %	Sample Type
231742 381600092-0007	Classroom 212 / SW Side / 6' Shelf	0.4	12/28/2015 3:28:00 PM	12/31/2015 10:09:00 AM	68	40	Customer

Sample Notes:

231855 381600092-0008	Classroom 212 / SW Side / 6' Shelf	0.3	12/28/2015 3:28:00 PM	12/31/2015 10:09:00 AM	68	40	Customer
--------------------------	---------------------------------------	-----	--------------------------	---------------------------	----	----	----------

Sample Notes:

Summary for EMSL Kit 136288 **Average Radon Result: 0.4 pCi/L**

Samples for EMSL Kit 136289

Liquid Scintillation ID	Location	Radon Activity pCi/L	Start	Stop	Temperature F	Humidity %	Sample Type
231763 381600092-0009	B	-0.1	12/28/2015 3:30:00 PM	12/31/2015 10:20:00 AM	72	60	Customer

Sample Notes:

231819 381600092-0010	B	0	12/28/2015 3:30:00 PM	12/31/2015 10:20:00 AM	72	60	Customer
--------------------------	---	---	--------------------------	---------------------------	----	----	----------

Sample Notes:

Summary for EMSL Kit 136289 **Average Radon Result: 0.0 pCi/L**

The radon test was performed using a liquid scintillation radon detector/s and counted on a liquid scintillation counter using approved EPA testing protocols for Radon in Air testing. The EPA recommends fixing your home if the average of two short-term tests taken in the lowest lived-in level of the home show radon levels that are equal to or greater than 4.0pCi/L.
 The EPA recommends retesting your home every two years.

Please contact EMSL Analytical, Inc. or your State Health Department for further information.
 All procedures used for generating this report are in complete accordance with the current EPA protocols for the analysis of Radon in Air.

Report Note



EMSL Analytical, Inc.

200 Route 130 North, Cinnaminson, NJ 08077
Phone/Fax: (800) 220-3675 / (856) 786-0327
<http://www.EMSL.com> cinnaminsonradonlab@emsl.com

EMSL Order: 381600092
CustomerID: LEID42
CustomerPO: 316041.00.00
ProjectID:

Attn: **John Whelpley**
Leidos Engineering, LLC
11951 Freedom Dr.
Reston, VA 20190

Phone: (571) 268-0697
Fax:
Received: 01/05/16 2:30 PM
Analysis Date: 1/6/2016
Collected: 12/28/2015

Project: **Wimses / 12520 Blue Sky Drive**

Test Site: **Wilson Wimses**
12520 Blue Sky Drive
Clarksburg, MD 20871

Test Report: Radon in Air Test Results

Analyst(s)

Tiffanie Cosgrove (10)

Laura Freeman, Interim Laboratory Manager &
Subash Rashat, New Jersey Radiation Specialist NJ MES 10152
or other approved signatory

In no event shall EMSL be liable for indirect, special, consequential, or incidental damages, including, but not limited to, damages for loss of profit or goodwill regardless of the negligence (either sole or concurrent) of EMSL and whether EMSL has been informed of the possibility of such damages, arising out of or in connection with EMSL's services thereunder or the delivery, use, reliance upon or interpretation of test results by client or any third party. We accept no legal responsibility for the purposes for which the client uses the test results. In no event shall EMSL be liable to a client or any third party, whether based upon theories of tort, contract or any other legal or equitable theory, in excess of the amount paid to EMSL by client thereunder. The test results meets all NELAC requirements unless otherwise specified. Accreditations: NRSB ARL6006, NJ DEP 03036, MEB 92525, PA 2573, IN 00455, IA L00032, RI RAS-024, ME 20200C, NE RMB-1083, NY ELAP 10872, NM 885-10L, FL RB2034, OH RL-39, NRPP #106178AL, KS-LB-0005

Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ Accreditations: NRSB ARL6006, NJ DEP 03036, MEB 92525, PA 2573, IN 00455, IA L00032, RI RAS-024, ME 20200C, NE RMB-1083, NY ELAP 10872, NM 885-10L, FL RB2034, OH RL-39, NRPP #106178AL, KS-LB-0005. Subash Rashat certification #MES10152

Initial report from 01/08/2016 11:28:42

Please visit www.radontestinglab.com

RADON SURVEY SCREENING REPORT – DRAFT
WILSON WIMS ELEMENTARY SCHOOL
12520 Blue Sky Drive, Clarksburg, Maryland 20871
4 January 2016



EXECUTIVE SUMMARY

Name of Facility:	Wilson Wims Elementary School, Clarksburg, MD
Date of Test Report:	4 January 2016
Round of Testing:	Initial Follow-up Post Remediation
# rooms tested:	37
# rooms \geq 4.0 pCi/L:	None
Low Value:	0.3 pCi/L
High Value:	1.9 pCi/L

At the request of Montgomery County Public Schools (MCPS), Leidos conducted a radon gas screening survey at Wilson Wims Elementary School (ES) in accordance with the protocols in the United States Environmental Protection Agency (USEPA) *Radon Measurement in Schools* (July 1993). On 11 December 2015, John Whelpley, P.E. (Leidos) installed sampling kits in 37 occupied classrooms and offices on the first floor of Wilson Wims ES. The locations of the 37 occupied classrooms and offices are shown in Figure 1. The elementary school was constructed in 2014.

The radon sampling survey followed the USEPA protocols including placing a sampling device in each room selected as a sampling location. Each device or kit contains two activated charcoal adsorption devices, set at a distance of 4 inches apart. A photograph of the radon sampling kit is shown in Figure 2. Each radon sampling kit was placed at least 20 inches above the ground surface, and was usually placed on top of a surface such as a 5-foot file cabinet or 6-foot shelf to avoid contact by students during the 3-day sampling period. The radon sampling kits were also placed away from exterior walls and windows, out of direct sunlight, and away from HVAC vents as much as possible. A photograph of the radon sampling kit on a 6-foot bookshelf is shown in Figure 3.

The radon test kits were installed on Friday morning and were then picked up on Monday morning (i.e., approximately 70 hours later). According to the Building Services personnel, the HVAC system was functioning in the school prior to the testing period but was mostly off over the weekend and no exterior windows were open during the testing period. The outdoor temperature, humidity, precipitation, wind, and weather conditions during the December 11-14 testing period were obtained from Weather Underground (www.weatherunderground.com) and are shown in the table in Appendix A.

In accordance with the USEPA protocols, all First Floor occupied classrooms and offices in contact with the ground were sampled. These included 37 rooms on the First Floor. In addition, because the Library (107) was over 2,000 square feet, a second set of samples was collected within this room in accordance with the USEPA protocols.

The radon test kits were shipped to EMSL Analytical, Inc. in Cinnaminson, NJ, on 14 December 2015 for analysis by liquid scintillation counter using the USEPA testing protocols for testing Radon in Air. EMSL is accredited by the National Radon Safety Board (NRBP) under

ARL6006 for radon analysis and the radon test kits are approved devices by the NRW under #12199. A total of 43 paired devices were submitted for analysis, including the screening samples for 38 sampling locations (i.e., the 37 rooms included extra samples in the Library), four duplicate samples, and one field blank. The Chain of Custody for the shipment of the radon test kits is shown in Appendix B. The laboratory analysis results are shown in Appendix C and are summarized in the table in Appendix A.

As shown in the table in Appendix A, none of the rooms had radon results above the USEPA Action Level of 4 Picocuries per Liter (pCi/L). The highest detected radon concentrations were in Classroom 128 which had an average radon result of 1.8 pCi/L. As a result, in accordance with the USEPA procedures, none of the first floor rooms require retesting in the short term.

As part of the USEPA Quality Assurance (QA) procedures, Leidos collected four duplicates (covering 10% of rooms) and one field blank (representing 3% of the rooms). The four duplicates all had average relative percent differences (ARPDs) within the QA limit of 25% including: WW 5 (15%), WW 21 (6%), WW 31 (8%), and WW 41 (20%). The field blank was less than the QA limit of 1.0 pCi/L with 0.05 pCi/L detected at WW 27.

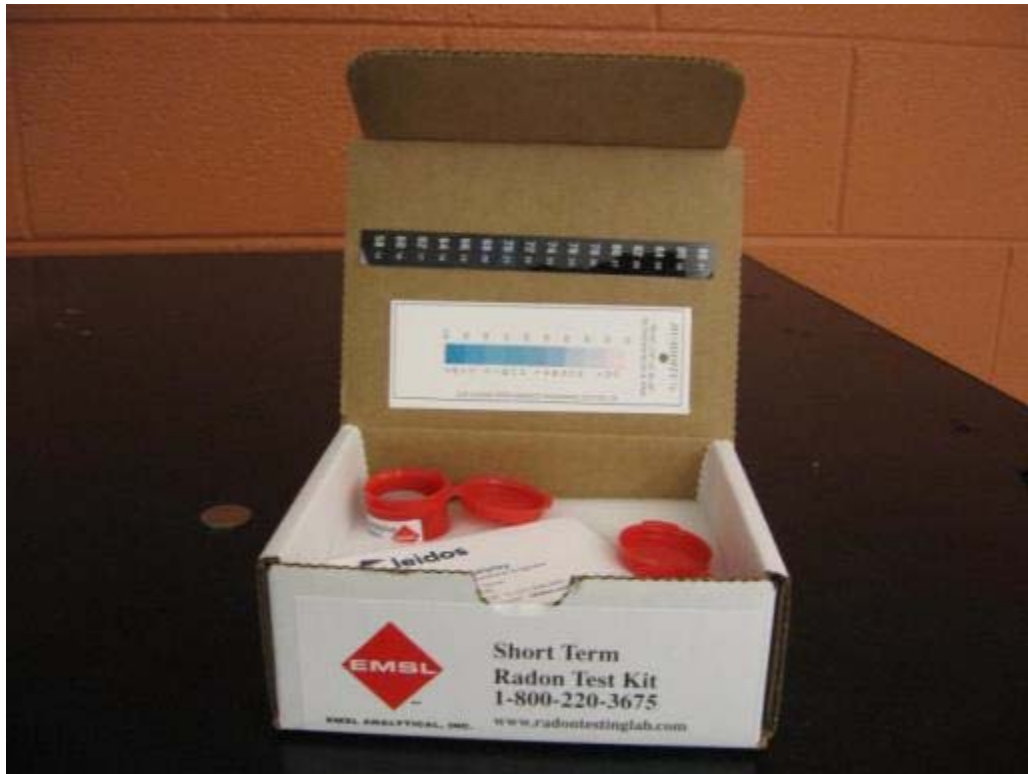


Figure 2. Photograph of Typical Radon Test Kit With Dual Devices



Figure 3. Typical Placement of Radon Test Kit

Appendix A. Radon Survey Results

Unique Sample Identifier	Sample Location Description (Room Number, Area)	Sample Result
225232	WW 1 - Office 100, West Side, 5 ft Shelf	0.8
225215	WW 1 - Office 100, West Side, 5 ft Shelf	0.9
225172	WW 2 - Office 102, NE Side, 6 ft Shelf	1.1
225088	WW 2 - Office 102, NE Side, 6 ft Shelf	1.2
225211	WW 3 - Office 100D, East Side, 5 ft Bookshelf	0.8
225240	WW 3 - Office 100D, East Side, 5 ft Bookshelf	0.9
225642	WW 4 - Office 100F, 6 ft Bookshelf	1.3
225645	WW 4 - Office 100F, 6 ft Bookshelf	1.3
225183	WW 5 - Office 100F, 6 ft Bookshelf	1.4
225102	WW 5 - Office 100F, 6 ft Bookshelf	0.9
225168	WW 6 - Classroom 151, West Side, 6 ft Shelf	0.7
225089	WW 6 - Classroom 151, West Side, 6 ft Shelf	0.6
225634	WW 7 - Classroom 147, SW Side, 6 ft Shelf	0.8
225185	WW 7 - Classroom 147, SW Side, 6 ft Shelf	1.0
225164	WW 8 - Classroom 178, NE Side, 6 ft Shelf	1.3
225119	WW 8 - Classroom 178, NE Side, 6 ft Shelf	1.2
225205	WW 9 - Classroom 139, SW Side, 6 ft Shelf	1.4
225188	WW 9 - Classroom 139, SW Side, 6 ft Shelf	1.5
225106	WW 10 - Classroom 135, SW Side, 6 ft Shelf	1.2
225246	WW 10 - Classroom 135, SW Side, 6 ft Shelf	1.4
225229	WW 11 - Classroom 174, NE Side, 6 ft Shelf	1.5
225094	WW 11 - Classroom 174, NE Side, 6 ft Shelf	1.8
225243	WW 12 - Classroom 168, NE Side, 6 ft Shelf	1.5
225620	WW 12 - Classroom 168, NE Side, 6 ft Shelf	1.4
225289	WW 13 - Office 133, West Side, 6 ft Shelf	1.0
225640	WW 13 - Office 133, West Side, 6 ft Shelf	1.1
225220	WW 14 - Classroom 160, SW Side, 6 ft Shelf	1.0
225158	WW 14 - Classroom 160, SW Side, 6 ft Shelf	1.0
225219	WW 15 - Classroom 158, NE Side, 6 ft Shelf	0.8

Unique Sample Identifier	Sample Location Description (Room Number, Area)	Sample Result
225264	WW 15 - Classroom 158, NE Side, 6 ft Shelf	0.8
225135	WW 16 - Classroom 154, NE Side, 6 ft Shelf	1.0
225262	WW 16 - Classroom 154, NE Side, 6 ft Shelf	1.0
225611	WW 17 - Classroom 150, SW Side, 6 ft Shelf	1.1
225605	WW 17 - Classroom 150, SW Side, 6 ft Shelf	1.0
225194	WW 18 - Classroom 144, SE Side, 6 ft Shelf	1.1
225208	WW 18 - Classroom 144, SE Side, 6 ft Shelf	1.0
225622	WW 19 - Classroom 140, NW Side, 6 ft Shelf	0.6
225107	WW 19 - Classroom 140, NW Side, 6 ft Shelf	0.7
225081	WW 20 - Classroom 125, 6 ft Shelf	0.8
225101	WW 20 - Classroom 125, 6 ft Shelf	1.0
225212	WW 21 - Classroom 125, 6 ft Shelf	1.0
225203	WW 21 - Classroom 125, 6 ft Shelf	0.9
225633	WW 22 - Classroom 136, SE Side, 6 ft Shelf	0.7
225163	WW 22 - Classroom 136, SE Side, 6 ft Shelf	1.0
225086	WW 23 - Classroom 121, SE Side, 6 ft Shelf	0.7
225187	WW 23 - Classroom 121, SE Side, 6 ft Shelf	0.8
225632	WW 24 - Classroom 134, NW Side, 6 ft Shelf	0.6
225231	WW 24 - Classroom 134, NW Side, 6 ft Shelf	0.6
225225	WW 25 - Classroom 128, NW Side, 6 ft Shelf	1.7
225105	WW 25 - Classroom 128, NW Side, 6 ft Shelf	1.9
225167	WW 26 - Office 124, 5 ft File Cabinet	0.9
225150	WW 26 - Office 124, 5 ft File Cabinet	1.1
225613	WW 27 - Field Blank	0.0
225078	WW 27 - Field Blank	0.1
225103	WW 28 - Classroom 186, NW Side, 6 ft Shelf	0.5
225175	WW 28 - Classroom 186, NW Side, 6 ft Shelf	0.7
225202	WW 29 - Classroom 188, NE Side, 6 ft Shelf	0.6
225184	WW 29 - Classroom 188, NE Side, 6 ft Shelf	0.6

Unique Sample Identifier	Sample Location Description (Room Number, Area)	Sample Result
225218	WW 30 - Classroom 190, NW Side, 6 ft Shelf	0.7
225204	WW 30 - Classroom 190, NW Side, 6 ft Shelf	0.5
225255	WW 31 - Classroom 190, NW Side, 6 ft Shelf	0.5
225249	WW 31 - Classroom 190, NW Side, 6 ft Shelf	0.6
225124	WW 32 - Classroom 192, NW Side, 6 ft Shelf	0.5
225166	WW 32 - Classroom 192, NW Side, 6 ft Shelf	0.4
225213	WW 33 - Classroom 113, NE Side, 5 ft Computer Shelf	0.7
225196	WW 33 - Classroom 113, NE Side, 5 ft Computer Shelf	0.6
225195	WW 34 - Library 107, NE Side, 6 ft Bookshelf	0.8
225200	WW 34 - Library 107, NE Side, 6 ft Bookshelf	0.6
225197	WW 35 - Library 107, SW Side, 6 ft Bookshelf	0.9
225250	WW 35 - Library 107, SW Side, 6 ft Bookshelf	0.8
225603	WW 36 - Library Office 111, NE Side, 6 ft Shelf	0.6
225098	WW 36 - Library Office 111, NE Side, 6 ft Shelf	0.6
225112	WW 37 - Classroom 180, East Side, 6 ft Shelf	0.7
225110	WW 37 - Classroom 180, East Side, 6 ft Shelf	0.8
225210	WW 38 - Classroom 172, 6 ft Shelf	0.8
225287	WW 38 - Classroom 172, 6 ft Shelf	1.1
225602	WW 39 - Classroom 164, NE Side, 6 ft Shelf	1.3
225311	WW 39 - Classroom 164, NE Side, 6 ft Shelf	1.0
225161	WW 40 - Kitchen Office 110B, West Side, 5 ft File Cabinet	0.3
225193	WW 40 - Kitchen Office 110B, West Side, 5 ft File Cabinet	0.2
225221	WW 41 - Kitchen Office 110B, West Side, 5 ft File Cabinet	0.1
225275	WW 41 - Kitchen Office 110B, West Side, 5 ft File Cabinet	0.3
225104	WW 42 - Multi Purpose Room 104, 5 ft Electrician Cabinet	0.4
225318	WW 42 - Multi Purpose Room 104, 5 ft Electrician Cabinet	0.3
225635	WW 43 - Gym Office 187A, South Side, 6 ft Shelf	0.7
225182	WW 43 - Gym Office 187A, South Side, 6 ft Shelf	0.6

Appendix B. Chain of Custody



RECEIVED
EMSL
CINNAMINSON, N.J.

CHAIN OF CUSTODY
RADON LABORATORY SERVICES
(COMMERCIAL USE)

EMSL ANALYTICAL, INC.
200 ROUTE 130 NORTH
CINNAMINSON, NJ 08077
PHONE: 800-220-3675
FAX: 856-786-0327

EMSL Job #: 381509989

2015 DEC 15 P 12: 32

Company Information

Company Name: LEIDOS #4 LEID042
EMSL Account #: 86184864
Contact: JOHN WHELPLEY
Address: 11951 Freedom Dr.
City: Reston
State: VA Zip Code: 20190
Phone: 571-268-0697
Fax: NA
Email: whelpley.j@leidos.com

Project / Property Information:

Name: WILSON WIMS ES
Address: 12520 Blue Sky Drive
City: Clarksburg
Municipality: - County: Montgomery
State: MD Zip Code: 20871
PO#/Project#: PO-MISC-ROD-86184864
 Please check box if this is a Post Mitigation Test
Technician Name: JOHN Whelpley, P.E.
Technician Certification #: NA
Technician Signature: [Signature]

Disclaimer

In no event shall EMSL be liable for indirect, special, consequential, or incidental damages for loss of profit or goodwill regardless of the negligence (either sole or concurrent) of EMSL and whether EMSL has been informed of the possibility of such damages arising out of or in connection with EMSL's services there under or the delivery, use, reliance upon or interpretation of test results by client or third party. We accept no legal responsibility for the purposes for which the client uses the test results. In no event shall EMSL be liable to a client or any third party, whether based upon theories of tort, contract or any other legal or equitable theory, in excess of the amount paid to EMSL by client thereafter.

Box Number	Device Number	Location	Exposure Period Beginning Date and Time	Exposure Period Ending Date and Time	Temperature, °F	Humidity, %
Ww1 133488	225232	Office 100 W side, Shelf 5'	12/11/15 0955	12/14/15 0808	70°	60%
	225215	" " " "	12/11/15 0955	" "	"	"
Ww2 133486	225172	Office 102 W side, Shelf 6'	12/11/15 0958	12/14/15 0809	72°	60%
	225088	" " " "	" "	" "	"	"
Ww3 133508	225211	Office 100D W side, Shelf 5'	12/11/15 1000	12/14/15 0810	68°	60%
	225240	" " " "	" "	" "	"	"
Ww4 133460	225642	Office 100F 1st floor	12/11/15 1002	12/14/15 0811	70°	60%
	225645	" " " "	" "	" "	"	"
Ww5 133509	225183	D	12/11/15 1004	12/14/15 0812	70°	60%
	225102	D	" "	" "	"	"
Ww6 133505	225168	Classroom 151 W side, Shelf 6'	12/11/15 1011	12/14/15 0813	70°	60%
	225089	" " " "	" "	" "	"	"

Relinquished By: [Signature] 12/14/15 1200 to UPS
Received By: [Signature] 12/15/15

RECEIVED
EMSL
CINNAMINSON, N.J.
2015 DEC 15 P 12: 33



CHAIN OF CUSTODY
 RADON LABORATORY SERVICES
 (COMMERCIAL USE)
 RECEIVED
 EMSL
 CINNAMINSON, N.J.

EMSL ANALYTICAL, INC.
 200 ROUTE 130 NORTH
 CINNAMINSON, NJ 08077
 PHONE: 800-220-3675
 FAX: 856-786-0327

EMSL Job #: 381509989
 2015 DEC 15 P 12:33

381509989

Box Number	Device Number	Location	Exposure Period Beginning Date and Time	Exposure Period Ending Date and Time	Temperature, °F	Humidity, %
ww7	133510	Class 147 Side Shelf	12/11/15 1014	12/14/15 0813	70°	70%
	225634					
	225185	SW	" "	" "	"	"
ww8	133511	Class 178 Shelf	12/11/15 1017	12/14/15 0816	72°	60%
	225164					
	225119	NE Cor	" "	" "	"	"
ww9	133504	Class 139 Shelf	12/11/18 1019	12/14/18 0815	68°	70%
	225205					
	225188	SW Side	" "	" "	"	"
ww10	133457	Class 135 Shelf	12/11/18 1021	12/14/15 0817	74°	40%
	225106					
	225246	SW Side	" "	" "	"	"
ww11	133487	Class 174 Shelf	12/11/18 1023	12/14/15 0819	70°	60%
	225229					
	225094	NE "	" "	" "	"	"
ww12	133459	Class 168 NE Shelf	12/11/18 1027	12/14/15 0821	70°	60%
	225243					
	225620		" "	" "	"	"
ww13	133506	Office 133 Shelf	12/11/15 1030	12/14/15 0823	70°	60%
	225289					
	225640	WSide	" "	" "	"	"
ww14	133502	Class 160 SW Side Shelf	12/11/15 1031	12/14/18 0824	68°	60%
	225220					
	225158		" "	" "	"	"
ww15	133503	Class 158 NE Side Shelf	12/11/15 1034	12/14/15 0855	70°	60%
	225219					
	225264		" "	" "	"	"
ww16	133521	Class 154 NE Shelf	12/11/15 1037	12/14/15 0826	74°	40%
	225135					
	225262		" "	" "	"	"
ww17	133463	Class 150 SW Shelf	12/11/15 1038	12/14/15 0827	68°	60%
	225611					
	225605		" "	" "	"	"
ww18	133507	Class 144 SE Shelf	12/11/15 1041	12/14/15 0828	76°	70%
	225194					
	225208		" "	" "	"	"
ww19	133473	Class 140 NW Shelf	12/11/15 1044	12/14/15 0829	76°	50%
	225622					
	225107		" "	" "	"	"

Relinquished By: *[Signature]*
 Received By: *[Signature]*

m² 3/5



EMSL ANALYTICAL, INC.

**CHAIN OF CUSTODY
RADON LABORATORY SERVICES
(COMMERCIAL USE)**

RECEIVED
EMSL
CINNAMINSON, N.J.

EMSL ANALYTICAL, INC.
200 ROUTE 130 NORTH
CINNAMINSON, NJ 08077

PHONE: 800-220-3675
FAX: 856-786-0327

EMSL Job #: 381509989 2015 DEC 15 P 12:33

Company Information

Company Name: LEIDOS
 EMSL Account #: _____
 Contact: _____
 Address: _____
 City: _____
 State: _____ Zip Code: _____
 Phone: _____
 Fax: _____
 Email: _____

Project / Property Information:

Name: WILSON WIMS ES
 Address: <SAME>
 City: _____
 Municipality: _____ County: _____
 State: _____ Zip Code: _____
 PO#/Project#: _____
 Please check box if this is a Post Mitigation Test
 Technician Name: _____
 Technician Certification #: _____
 Technician Signature: _____

Disclaimer

In no event shall EMSL be liable for indirect, special, consequential, or incidental damages for loss of profit or goodwill regardless of the negligence (either sole or concurrent) of EMSL and whether EMSL has been informed of the possibility of such damages arising out of or in connection with EMSL's services there under or the delivery, use, reliance upon or interpretation of test results by client or third party. We accept no legal responsibility for the purposes for which the client uses the test results. In no event shall EMSL be liable to a client or any third party, whether based upon theories of tort, contract or any other legal or equitable theory, in excess of the amount paid to EMSL by client thereafter.

Box Number	Device Number	Location	Exposure Period Beginning Date and Time	Exposure Period Ending Date and Time	Temperature, °F	Humidity, %
ww20	133482	Classroom 125, Shelf 6	12/11/15 1047	12/14/15 0830	80°	30%
	225081	" "	" "	" "	"	"
	225101	" "	" "	" "	"	"
ww21	133489	D	12/11/15 1049	12/14/15 0831	80°	30%
	225212	D	" "	" "	"	"
	225203	D	" "	" "	"	"
ww22	133496	Classroom 136 SE, Shelf 6	12/11/15 1053	12/14/15 0832	72°	60%
	225633	" "	" "	" "	"	"
	225163	" "	" "	" "	"	"
ww23	133468	Class 127 S.E. side, Shelf 6	12/11/15 1055	12/14/15 0833	72°	50%
	225086	" "	" "	" "	"	"
	225187	" "	" "	" "	"	"
ww24	133458	Class 134 NW Side, Shelf 6	12/11/15 1057	12/14/15 0834	74°	30%
	225632	" "	" "	" "	"	"
	225231	" "	" "	" "	"	"
ww25	133471	Class 128 NW Side, Shelf 6	12/11/15 1101	12/14/15 0835	76°	60%
	225225	" "	" "	" "	"	"
	225105	" "	" "	" "	"	"

Relinquished By: _____
 Received By: Audelle

ma 2 4/5



RECEIVED
EMSL
CINNAMINSON, N.J.

CHAIN OF CUSTODY
RADON LABORATORY SERVICES
(COMMERCIAL USE)

EMSL ANALYTICAL, INC.
200 ROUTE 130 NORTH
CINNAMINSON, NJ 08077

PHONE: 800-220-3675
FAX: 856-786-0327

2015 DEC 15 P 12:00 EMSL Job #: 381509989

Box Number	Device Number	Location	Exposure Period Beginning Date and Time	Exposure Period Ending Date and Time	Temperature, °F	Humidity, %
Ww26	133520	Office 124	12/11/15 1105	12/14/15 0836	72°	60%
"	225 167	"	"	"	"	"
"	225 150	File Cabinet 5'	"	"	"	"
Ww27	133484	B	12/11/15 1107	12/14/15 0836	72°	60%
"	225 613	"	"	"	"	"
"	225 078	"	"	"	"	"
Ww28	133477	Class 186	12/11/15 1109	12/14/15 0837	70°	60%
"	225 103	"	"	"	"	"
"	225 175	NW side, Shelf 6'	"	"	"	"
Ww29	133476	Class 188	12/11/15 1111	12/14/15 0838	70°	60%
"	225 202	"	"	"	"	"
"	225 184	NE side, Shelf 6'	"	"	"	"
Ww30	133469	Class 190	12/11/15 1112	12/14/15 0839	76°	60%
"	225 218	"	"	"	"	"
"	225 204	NW side, Shelf 6'	"	"	"	"
Ww31	133475	D	12/11/15 1114	12/14/15 0840	76°	60%
"	225 255	"	"	"	"	"
"	225 249	"	"	"	"	"
Ww32	133522	Class 192	12/11/15 1117	12/14/15 0841	70°	50%
"	225 124	"	"	"	"	"
"	225 166	NW side, Shelf 6'	"	"	"	"
Ww33	133478	Class Computer 113	12/11/15 1120	12/14/15 0845	70°	60%
"	225 213	"	"	"	"	"
"	225 196	NE side, Shelf 5'	"	"	"	"
Ww34	133474	Library 107	12/11/15 1124	12/14/15 0849	70°	80%
"	225 195	"	"	"	"	"
"	225 200	NE side, Bookshelf 6'	"	"	"	"
Ww35	133472	Library 107	12/11/15 1125	12/14/15 0850	70°	80%
"	225 197	"	"	"	"	"
"	225 250	SW side, Bookshelf 6'	"	"	"	"
Ww36	133490	Library Office 111	12/11/15 1129	12/14/15 0852	76°	70%
"	225 603	"	"	"	"	"
"	225 098	NE side, Shelf 6'	"	"	"	"
Ww37	133483	Class 180	12/11/15 1133	12/14/15 0814	74°	60%
"	225 112	"	"	"	"	"
"	225 110	E side, Shelf 6'	"	"	"	"
Ww38	133461	Class 172	12/11/15 1134	12/14/15 0820	68°	60%
"	225 210	"	"	"	"	"
"	225 287	NE side, Shelf 6'	"	"	"	"

Relinquished By:

Received By:

[Handwritten signature]

m#2 5/5



RECEIVED
EMSL
CINNAMINSON, NJ
2015 DEC 15 P 12:33

**CHAIN OF CUSTODY
RADON LABORATORY SERVICES
(COMMERCIAL USE)**

EMSL ANALYTICAL, INC.
200 ROUTE 130 NORTH
CINNAMINSON, NJ 08077
PHONE: 800-220-3675
FAX: 856-786-0327

EMSL ANALYTICAL, INC.

EMSL Job #: 381509989

Company Information

Company Name: LEIDOS
EMSL Account #: <SAME>
Contact: "
Address: "
City: "
State: " Zip Code: "
Phone: "
Fax: "
Email: "

Project / Property Information:

Name: WILSON WIMS ES
Address: <SAME>
City: "
Municipality: " County: "
State: " Zip Code: "
PO#/Project #: "
 Please check box if this is a Post Mitigation Test
Technician Name: "
Technician Certification #: "
Technician Signature: "

Disclaimer

In no event shall EMSL be liable for indirect, special, consequential, or incidental damages for loss of profit or goodwill regardless of the negligence (either sole or concurrent) of EMSL and whether EMSL has been informed of the possibility of such damages arising out of or in connection with EMSL's services there under or the delivery, use, reliance upon or interpretation of test results by client or third party. We accept no legal responsibility for the purposes for which the client uses the test results. In no event shall EMSL be liable to a client or any third party, whether based upon theories of tort, contract or any other legal or equitable theory, in excess of the amount paid to EMSL by client thereafter.

Box Number	Device Number	Location	Exposure Period Beginning Date and Time	Exposure Period Ending Date and Time	Temperature, °F	Humidity, %
Ww39	133469	Classr 160 1st fl 66'	12/11/15 1141	12/14/15 0822	76°	30%
	225311		" "	" "	"	"
Ww40	133485	Kitchen area 1100 W side, Elec Cab	12/11/15 1146	12/14/15 0846	72°	60%
	225193	5'	" "	" "	"	"
Ww41	133462	D	12/11/15 1148	12/14/15 0847	72°	60%
	225275	D	" "	" "	"	"
Ww42	133465	APR, Catina Electronics Cct 5'	12/11/15 1149	12/14/15 0848	70°	70%
	(133465) 225318		" "	" "	"	"
Ww43	133470	Gym office 187A S side 1st fl 66'	12/11/15 1153	12/14/15 0843	78°	70%
	225182		" "	" "	"	"
Ww44			12/11/15 1153	12/14/15 0843		

Relinquished By: Jed
Received By: Kawellen

VSS

Appendix C. Laboratory Results

**EMSL Analytical, Inc.**

200 Route 130 North, Cinnaminson, NJ 08077
 Phone/Fax: (800) 220-3675 / (856) 786-0327
<http://www.EMSL.com> cinnaminsonradonlab@emsl.com

EMSL Order: 381509989
 CustomerID: LEID42
 CustomerPO:
 ProjectID:

Attn: **John Whelpley**
Leidos Engineering, LLC
11951 Freedom Dr.
Reston, VA 20190

Phone: (571) 268-0697
 Fax:
 Received: 12/15/15 12:30 PM
 Analysis Date: 12/16/2015
 Collected: 12/11/2015

Project: **Wilson Wims ES / 12520 Blue Sky Drive**

Test Site: **Wilson Wims ES**
12520 Blue Sky Drive
Clarksburg, MD 20871

Test Report: Radon in Air Test Results**Samples for EMSL Kit 133488**

Liquid Scintillation ID	Location	Radon Activity pCi/L	Start	Stop	Temperature F	Humidity %	Sample Type
225232 381509989-0001	Office 100 - W Side, Shelf 5'	0.8	12/11/2015 9:55:00 AM	12/14/2015 8:08:00 AM	70	60	Customer

Sample Notes:

225215 381509989-0002	Office 100 - W Side, Shelf 5'	0.9	12/11/2015 9:55:00 AM	12/14/2015 8:08:00 AM	70	60	Customer
--------------------------	----------------------------------	-----	--------------------------	--------------------------	----	----	----------

Sample Notes:

Summary for EMSL Kit 133488 **Average Radon Result: 0.9 pCi/L**

Samples for EMSL Kit 133486

Liquid Scintillation ID	Location	Radon Activity pCi/L	Start	Stop	Temperature F	Humidity %	Sample Type
225172 381509989-0003	Office 102, NE Side, Shelf 6'	1.1	12/11/2015 9:58:00 AM	12/14/2015 8:09:00 AM	72	60	Customer

Sample Notes:

225088 381509989-0004	Office 102, NE Side, Shelf 6'	1.2	12/11/2015 9:58:00 AM	12/14/2015 8:09:00 AM	72	60	Customer
--------------------------	----------------------------------	-----	--------------------------	--------------------------	----	----	----------

Sample Notes:

Summary for EMSL Kit 133486 **Average Radon Result: 1.2 pCi/L**

Samples for EMSL Kit 133508

Liquid Scintillation ID	Location	Radon Activity pCi/L	Start	Stop	Temperature F	Humidity %	Sample Type
225211 381509989-0005	Office 100D, E Side, Bookshelf 5'	0.8	12/11/2015 10:00:00 AM	12/14/2015 8:10:00 AM	68	60	Customer

Sample Notes:

225240 381509989-0006	Office 100D, E Side, Bookshelf 5'	0.9	12/11/2015 10:00:00 AM	12/14/2015 8:10:00 AM	68	60	Customer
--------------------------	--------------------------------------	-----	---------------------------	--------------------------	----	----	----------

Sample Notes:

Summary for EMSL Kit 133508 **Average Radon Result: 0.9 pCi/L**

**EMSL Analytical, Inc.**

200 Route 130 North, Cinnaminson, NJ 08077
 Phone/Fax: (800) 220-3675 / (856) 786-0327
<http://www.EMSL.com> cinnaminsonradonlab@emsl.com

EMSL Order: 381509989
 CustomerID: LEID42
 CustomerPO:
 ProjectID:

Attn: **John Whelpley**
Leidos Engineering, LLC
11951 Freedom Dr.
Reston, VA 20190

Phone: (571) 268-0697
 Fax:
 Received: 12/15/15 12:30 PM
 Analysis Date: 12/16/2015
 Collected: 12/11/2015

Project: **Wilson Wims ES / 12520 Blue Sky Drive**

Test Site: **Wilson Wims ES**
12520 Blue Sky Drive
Clarksburg, MD 20871

Test Report: Radon in Air Test Results**Samples for EMSL Kit 133460**

Liquid Scintillation ID	Location	Radon Activity pCi/L	Start	Stop	Temperature F	Humidity %	Sample Type
225642 381509989-0007	Office 100F, Bookshelf 6'	1.3	12/11/2015 10:02:00 AM	12/14/2015 8:11:00 AM	70	60	Customer

Sample Notes:

225645 381509989-0008	Office 100F, Bookshelf 6'	1.3	12/11/2015 10:02:00 AM	12/14/2015 8:11:00 AM	70	60	Customer
--------------------------	------------------------------	-----	---------------------------	--------------------------	----	----	----------

Sample Notes:

Summary for EMSL Kit 133460 **Average Radon Result: 1.3 pCi/L**

Samples for EMSL Kit 133509

Liquid Scintillation ID	Location	Radon Activity pCi/L	Start	Stop	Temperature F	Humidity %	Sample Type
225183 381509989-0009	D	1.4	12/11/2015 10:04:00 AM	12/14/2015 8:12:00 AM	70	60	Customer

Sample Notes:

225102 381509989-0010	D	0.9	12/11/2015 10:04:00 AM	12/14/2015 8:12:00 AM	70	60	Customer
--------------------------	---	-----	---------------------------	--------------------------	----	----	----------

Sample Notes:

Summary for EMSL Kit 133509 **Average Radon Result: 1.1 pCi/L**

Samples for EMSL Kit 133505

Liquid Scintillation ID	Location	Radon Activity pCi/L	Start	Stop	Temperature F	Humidity %	Sample Type
225168 381509989-0011	Classroom 151, W Side, Shelf 6'	0.7	12/11/2015 10:11:00 AM	12/14/2015 8:13:00 AM	70	60	Customer

Sample Notes:

225089 381509989-0012	Classroom 151, W Side, Shelf 6'	0.6	12/11/2015 10:11:00 AM	12/14/2015 8:13:00 AM	70	60	Customer
--------------------------	------------------------------------	-----	---------------------------	--------------------------	----	----	----------

Sample Notes:

Summary for EMSL Kit 133505 **Average Radon Result: 0.6 pCi/L**

**EMSL Analytical, Inc.**

200 Route 130 North, Cinnaminson, NJ 08077
 Phone/Fax: (800) 220-3675 / (856) 786-0327
<http://www.EMSL.com> cinnaminsonradonlab@emsl.com

EMSL Order: 381509989
 CustomerID: LEID42
 CustomerPO:
 ProjectID:

Attn: **John Whelpley**
Leidos Engineering, LLC
11951 Freedom Dr.
Reston, VA 20190

Phone: (571) 268-0697
 Fax:
 Received: 12/15/15 12:30 PM
 Analysis Date: 12/16/2015
 Collected: 12/11/2015

Project: **Wilson Wims ES / 12520 Blue Sky Drive**

Test Site: **Wilson Wims ES**
12520 Blue Sky Drive
Clarksburg, MD 20871

Test Report: Radon in Air Test Results**Samples for EMSL Kit 133510**

Liquid Scintillation ID	Location	Radon Activity pCi/L	Start	Stop	Temperature F	Humidity %	Sample Type
225634 381509989-0013	Classroom 147, SW Side, Shelf 6'	0.8	12/11/2015 10:14:00 AM	12/14/2015 8:13:00 AM	70	70	Customer

Sample Notes:

225185 381509989-0014	Classroom 147, SW Side, Shelf 6'	1	12/11/2015 10:14:00 AM	12/14/2015 8:13:00 AM	70	70	Customer
--------------------------	-------------------------------------	---	---------------------------	--------------------------	----	----	----------

Sample Notes:

Summary for EMSL Kit 133510 Average Radon Result: 0.9 pCi/L

Samples for EMSL Kit 133511

Liquid Scintillation ID	Location	Radon Activity pCi/L	Start	Stop	Temperature F	Humidity %	Sample Type
225164 381509989-0015	Classroom 178, NE Side, Shelf 6'	1.3	12/11/2015 10:17:00 AM	12/14/2015 8:16:00 AM	72	60	Customer

Sample Notes:

225119 381509989-0016	Classroom 178, NE Side, Shelf 6'	1.2	12/11/2015 10:17:00 AM	12/14/2015 8:16:00 AM	72	60	Customer
--------------------------	-------------------------------------	-----	---------------------------	--------------------------	----	----	----------

Sample Notes:

Summary for EMSL Kit 133511 Average Radon Result: 1.3 pCi/L

Samples for EMSL Kit 133504

Liquid Scintillation ID	Location	Radon Activity pCi/L	Start	Stop	Temperature F	Humidity %	Sample Type
225205 381509989-0017	Classroom 139, SW Side, Shelf 6'	1.4	12/11/2015 10:19:00 AM	12/14/2015 8:15:00 AM	68	70	Customer

Sample Notes:

225188 381509989-0018	Classroom 139, SW Side, Shelf 6'	1.5	12/11/2015 10:19:00 AM	12/14/2015 8:15:00 AM	68	70	Customer
--------------------------	-------------------------------------	-----	---------------------------	--------------------------	----	----	----------

Sample Notes:

Summary for EMSL Kit 133504 Average Radon Result: 1.5 pCi/L

**EMSL Analytical, Inc.**

200 Route 130 North, Cinnaminson, NJ 08077

Phone/Fax: (800) 220-3675 / (856) 786-0327

<http://www.EMSL.com>cinnaminsonradonlab@emsl.com

EMSL Order: 381509989

CustomerID: LEID42

CustomerPO:

ProjectID:

Attn: **John Whelpley**
Leidos Engineering, LLC
11951 Freedom Dr.
Reston, VA 20190

Phone: (571) 268-0697
 Fax:
 Received: 12/15/15 12:30 PM
 Analysis Date: 12/16/2015
 Collected: 12/11/2015

Project: **Wilson Wims ES / 12520 Blue Sky Drive**

Test Site: **Wilson Wims ES**
12520 Blue Sky Drive
Clarksburg, MD 20871

Test Report: Radon in Air Test Results**Samples for EMSL Kit 133457**

Liquid Scintillation ID	Location	Radon Activity pCi/L	Start	Stop	Temperature F	Humidity %	Sample Type
225106 381509989-0019	Classroom 135, SW Side, Shelf 6'	1.2	12/11/2015 10:21:00 AM	12/14/2015 8:17:00 AM	74	40	Customer

Sample Notes:

225246 381509989-0020	Classroom 135, SW Side, Shelf 6'	1.4	12/11/2015 10:21:00 AM	12/14/2015 8:17:00 AM	74	40	Customer
--------------------------	-------------------------------------	-----	---------------------------	--------------------------	----	----	----------

Sample Notes:**Summary for EMSL Kit 133457 Average Radon Result: 1.3 pCi/L****Samples for EMSL Kit 133487**

Liquid Scintillation ID	Location	Radon Activity pCi/L	Start	Stop	Temperature F	Humidity %	Sample Type
225229 381509989-0021	Classroom 174, NE Side, Shelf 6'	1.5	12/11/2015 10:23:00 AM	12/14/2015 8:19:00 AM	70	60	Customer

Sample Notes:

225094 381509989-0022	Classroom 174, NE Side, Shelf 6'	1.8	12/11/2015 10:23:00 AM	12/14/2015 8:19:00 AM	70	60	Customer
--------------------------	-------------------------------------	-----	---------------------------	--------------------------	----	----	----------

Sample Notes:**Summary for EMSL Kit 133487 Average Radon Result: 1.6 pCi/L****Samples for EMSL Kit 133459**

Liquid Scintillation ID	Location	Radon Activity pCi/L	Start	Stop	Temperature F	Humidity %	Sample Type
225243 381509989-0023	Classroom 168, NE Side, Shelf 6'	1.5	12/11/2015 10:27:00 AM	12/14/2015 8:21:00 AM	70	60	Customer

Sample Notes:

225620 381509989-0024	Classroom 168, NE Side, Shelf 6'	1.4	12/11/2015 10:27:00 AM	12/14/2015 8:21:00 AM	70	60	Customer
--------------------------	-------------------------------------	-----	---------------------------	--------------------------	----	----	----------

Sample Notes:**Summary for EMSL Kit 133459 Average Radon Result: 1.5 pCi/L**

**EMSL Analytical, Inc.**

200 Route 130 North, Cinnaminson, NJ 08077
 Phone/Fax: (800) 220-3675 / (856) 786-0327
<http://www.EMSL.com> cinnaminsonradonlab@emsl.com

EMSL Order: 381509989
 CustomerID: LEID42
 CustomerPO:
 ProjectID:

Attn: **John Whelpley**
Leidos Engineering, LLC
11951 Freedom Dr.
Reston, VA 20190

Phone: (571) 268-0697
 Fax:
 Received: 12/15/15 12:30 PM
 Analysis Date: 12/16/2015
 Collected: 12/11/2015

Project: **Wilson Wims ES / 12520 Blue Sky Drive**

Test Site: **Wilson Wims ES**
12520 Blue Sky Drive
Clarksburg, MD 20871

Test Report: Radon in Air Test Results**Samples for EMSL Kit 133506**

Liquid Scintillation ID	Location	Radon Activity pCi/L	Start	Stop	Temperature F	Humidity %	Sample Type
225289 381509989-0025	Office 133, W Side, Shelf 6'	1	12/11/2015 10:30:00 AM	12/14/2015 8:23:00 AM	70	60	Customer

Sample Notes:

225640 381509989-0026	Office 133, W Side, Shelf 6'	1.1	12/11/2015 10:30:00 AM	12/14/2015 8:23:00 AM	70	60	Customer
--------------------------	---------------------------------	-----	---------------------------	--------------------------	----	----	----------

Sample Notes:

Summary for EMSL Kit 133506 **Average Radon Result: 1.0 pCi/L**

Samples for EMSL Kit 133502

Liquid Scintillation ID	Location	Radon Activity pCi/L	Start	Stop	Temperature F	Humidity %	Sample Type
225220 381509989-0027	Classroom 160, SW Side, Shelf 6'	1	12/11/2015 10:31:00 AM	12/14/2015 8:24:00 AM	68	60	Customer

Sample Notes:

225158 381509989-0028	Classroom 160, SW Side, Shelf 6'	1	12/11/2015 10:31:00 AM	12/14/2015 8:24:00 AM	68	60	Customer
--------------------------	-------------------------------------	---	---------------------------	--------------------------	----	----	----------

Sample Notes:

Summary for EMSL Kit 133502 **Average Radon Result: 1.0 pCi/L**

Samples for EMSL Kit 133503

Liquid Scintillation ID	Location	Radon Activity pCi/L	Start	Stop	Temperature F	Humidity %	Sample Type
225219 381509989-0029	Classroom 158, NE Side, Shelf 6'	0.8	12/11/2015 10:34:00 AM	12/14/2015 8:55:00 AM	70	60	Customer

Sample Notes:

225264 381509989-0030	Classroom 158, NE Side, Shelf 6'	0.8	12/11/2015 10:34:00 AM	12/14/2015 8:55:00 AM	70	60	Customer
--------------------------	-------------------------------------	-----	---------------------------	--------------------------	----	----	----------

Sample Notes:

Summary for EMSL Kit 133503 **Average Radon Result: 0.8 pCi/L**

**EMSL Analytical, Inc.**

200 Route 130 North, Cinnaminson, NJ 08077
 Phone/Fax: (800) 220-3675 / (856) 786-0327
<http://www.EMSL.com> cinnaminsonradonlab@emsl.com

EMSL Order: 381509989
 CustomerID: LEID42
 CustomerPO:
 ProjectID:

Attn: **John Whelpley**
Leidos Engineering, LLC
11951 Freedom Dr.
Reston, VA 20190

Phone: (571) 268-0697
 Fax:
 Received: 12/15/15 12:30 PM
 Analysis Date: 12/16/2015
 Collected: 12/11/2015

Project: **Wilson Wims ES / 12520 Blue Sky Drive**

Test Site: **Wilson Wims ES**
12520 Blue Sky Drive
Clarksburg, MD 20871

Test Report: Radon in Air Test Results**Samples for EMSL Kit 133521**

Liquid Scintillation ID	Location	Radon Activity pCi/L	Start	Stop	Temperature F	Humidity %	Sample Type
225135 381509989-0031	Classroom 154, NE Side, Shelf 6'	1	12/11/2015 10:37:00 AM	12/14/2015 8:26:00 AM	74	40	Customer

Sample Notes:

225262 381509989-0032	Classroom 154, NE Side, Shelf 6'	1	12/11/2015 10:37:00 AM	12/14/2015 8:26:00 AM	74	40	Customer
--------------------------	-------------------------------------	---	---------------------------	--------------------------	----	----	----------

Sample Notes:

Summary for EMSL Kit 133521 Average Radon Result: 1.0 pCi/L

Samples for EMSL Kit 133463

Liquid Scintillation ID	Location	Radon Activity pCi/L	Start	Stop	Temperature F	Humidity %	Sample Type
225611 381509989-0033	Classroom 150, SW Side, Shelf 6'	1.1	12/11/2015 10:38:00 AM	12/14/2015 8:27:00 AM	68	60	Customer

Sample Notes:

225605 381509989-0034	Classroom 150, SW Side, Shelf 6'	1	12/11/2015 10:38:00 AM	12/14/2015 8:27:00 AM	68	60	Customer
--------------------------	-------------------------------------	---	---------------------------	--------------------------	----	----	----------

Sample Notes:

Summary for EMSL Kit 133463 Average Radon Result: 1.0 pCi/L

Samples for EMSL Kit 133507

Liquid Scintillation ID	Location	Radon Activity pCi/L	Start	Stop	Temperature F	Humidity %	Sample Type
225194 381509989-0035	Classroom 144, SE Side, Shelf 6'	1.1	12/11/2015 10:41:00 AM	12/14/2015 8:28:00 AM	76	70	Customer

Sample Notes:

225208 381509989-0036	Classroom 144, SE Side, Shelf 6'	1	12/11/2015 10:41:00 AM	12/14/2015 8:28:00 AM	76	70	Customer
--------------------------	-------------------------------------	---	---------------------------	--------------------------	----	----	----------

Sample Notes:

Summary for EMSL Kit 133507 Average Radon Result: 1.0 pCi/L

**EMSL Analytical, Inc.**

200 Route 130 North, Cinnaminson, NJ 08077
 Phone/Fax: (800) 220-3675 / (856) 786-0327
<http://www.EMSL.com> cinnaminsonradonlab@emsl.com

EMSL Order: 381509989
 CustomerID: LEID42
 CustomerPO:
 ProjectID:

Attn: **John Whelpley**
Leidos Engineering, LLC
11951 Freedom Dr.
Reston, VA 20190

Phone: (571) 268-0697
 Fax:
 Received: 12/15/15 12:30 PM
 Analysis Date: 12/16/2015
 Collected: 12/11/2015

Project: **Wilson Wims ES / 12520 Blue Sky Drive**

Test Site: **Wilson Wims ES**
12520 Blue Sky Drive
Clarksburg, MD 20871

Test Report: Radon in Air Test Results**Samples for EMSL Kit 133473**

Liquid Scintillation ID	Location	Radon Activity pCi/L	Start	Stop	Temperature F	Humidity %	Sample Type
225622 381509989-0037	Classroom 140, NW Side, Shelf 6'	0.6	12/11/2015 10:44:00 AM	12/14/2015 8:29:00 AM	76	50	Customer

Sample Notes:

225107 381509989-0038	Classroom 140, NW Side, Shelf 6'	0.7	12/11/2015 10:44:00 AM	12/14/2015 8:29:00 AM	76	50	Customer
--------------------------	-------------------------------------	-----	---------------------------	--------------------------	----	----	----------

Sample Notes:

Summary for EMSL Kit 133473 Average Radon Result: 0.6 pCi/L

Samples for EMSL Kit 133482

Liquid Scintillation ID	Location	Radon Activity pCi/L	Start	Stop	Temperature F	Humidity %	Sample Type
225081 381509989-0039	Classroom 125, Shelf 6'	0.8	12/11/2015 10:47:00 AM	12/14/2015 8:30:00 AM	80	30	Customer

Sample Notes:

225101 381509989-0040	Classroom 125, Shelf 6'	1	12/11/2015 10:47:00 AM	12/14/2015 8:30:00 AM	80	30	Customer
--------------------------	----------------------------	---	---------------------------	--------------------------	----	----	----------

Sample Notes:

Summary for EMSL Kit 133482 Average Radon Result: 0.9 pCi/L

Samples for EMSL Kit 133489

Liquid Scintillation ID	Location	Radon Activity pCi/L	Start	Stop	Temperature F	Humidity %	Sample Type
225212 381509989-0041	D	1	12/11/2015 10:49:00 AM	12/14/2015 8:31:00 AM	80	30	Customer

Sample Notes:

225203 381509989-0042	D	0.9	12/11/2015 10:49:00 AM	12/14/2015 8:31:00 AM	80	30	Customer
--------------------------	---	-----	---------------------------	--------------------------	----	----	----------

Sample Notes:

Summary for EMSL Kit 133489 Average Radon Result: 0.9 pCi/L

**EMSL Analytical, Inc.**

200 Route 130 North, Cinnaminson, NJ 08077
 Phone/Fax: (800) 220-3675 / (856) 786-0327
<http://www.EMSL.com> cinnaminsonradonlab@emsl.com

EMSL Order: 381509989
 CustomerID: LEID42
 CustomerPO:
 ProjectID:

Attn: **John Whelpley**
Leidos Engineering, LLC
11951 Freedom Dr.
Reston, VA 20190

Phone: (571) 268-0697
 Fax:
 Received: 12/15/15 12:30 PM
 Analysis Date: 12/16/2015
 Collected: 12/11/2015

Project: **Wilson Wims ES / 12520 Blue Sky Drive**

Test Site: **Wilson Wims ES**
12520 Blue Sky Drive
Clarksburg, MD 20871

Test Report: Radon in Air Test Results**Samples for EMSL Kit 133496**

Liquid Scintillation ID	Location	Radon Activity pCi/L	Start	Stop	Temperature F	Humidity %	Sample Type
225633 381509989-0043	Classroom 136, SE Side, Shelf 6'	0.7	12/11/2015 10:53:00 AM	12/14/2015 8:32:00 AM	72	60	Customer

Sample Notes:

225163 381509989-0044	Classroom 136, SE Side, Shelf 6'	1	12/11/2015 10:53:00 AM	12/14/2015 8:32:00 AM	72	60	Customer
--------------------------	-------------------------------------	---	---------------------------	--------------------------	----	----	----------

Sample Notes:

Summary for EMSL Kit 133496 Average Radon Result: **0.9 pCi/L**

Samples for EMSL Kit 133468

Liquid Scintillation ID	Location	Radon Activity pCi/L	Start	Stop	Temperature F	Humidity %	Sample Type
225086 381509989-0045	Classroom 121, SE Side, Shelf 6'	0.7	12/11/2015 10:55:00 AM	12/14/2015 8:33:00 AM	72	50	Customer

Sample Notes:

225187 381509989-0046	Classroom 121, SE Side, Shelf 6'	0.8	12/11/2015 10:55:00 AM	12/14/2015 8:33:00 AM	72	50	Customer
--------------------------	-------------------------------------	-----	---------------------------	--------------------------	----	----	----------

Sample Notes:

Summary for EMSL Kit 133468 Average Radon Result: **0.8 pCi/L**

Samples for EMSL Kit 133458

Liquid Scintillation ID	Location	Radon Activity pCi/L	Start	Stop	Temperature F	Humidity %	Sample Type
225632 381509989-0047	Classroom 134, NW Side, Shelf 6'	0.6	12/11/2015 10:57:00 AM	12/14/2015 8:34:00 AM	74	30	Customer

Sample Notes:

225231 381509989-0048	Classroom 134, NW Side, Shelf 6'	0.6	12/11/2015 10:57:00 AM	12/14/2015 8:34:00 AM	74	30	Customer
--------------------------	-------------------------------------	-----	---------------------------	--------------------------	----	----	----------

Sample Notes:

Summary for EMSL Kit 133458 Average Radon Result: **0.6 pCi/L**

**EMSL Analytical, Inc.**

200 Route 130 North, Cinnaminson, NJ 08077
 Phone/Fax: (800) 220-3675 / (856) 786-0327
<http://www.EMSL.com> cinnaminsonradonlab@emsl.com

EMSL Order: 381509989
 CustomerID: LEID42
 CustomerPO:
 ProjectID:

Attn: **John Whelpley**
Leidos Engineering, LLC
11951 Freedom Dr.
Reston, VA 20190

Phone: (571) 268-0697
 Fax:
 Received: 12/15/15 12:30 PM
 Analysis Date: 12/16/2015
 Collected: 12/11/2015

Project: **Wilson Wims ES / 12520 Blue Sky Drive**

Test Site: **Wilson Wims ES**
12520 Blue Sky Drive
Clarksburg, MD 20871

Test Report: Radon in Air Test Results**Samples for EMSL Kit 133471**

Liquid Scintillation ID	Location	Radon Activity pCi/L	Start	Stop	Temperature F	Humidity %	Sample Type
225225 381509989-0049	Classroom 128, NW Side, Shelf 6'	1.7	12/11/2015 11:01:00 AM	12/14/2015 8:35:00 AM	76	60	Customer

Sample Notes:

225105 381509989-0050	Classroom 128, NW Side, Shelf 6'	1.9	12/11/2015 11:01:00 AM	12/14/2015 8:35:00 AM	76	60	Customer
--------------------------	-------------------------------------	-----	---------------------------	--------------------------	----	----	----------

Sample Notes:

Summary for EMSL Kit 133471 Average Radon Result: 1.8 pCi/L

Samples for EMSL Kit 133520

Liquid Scintillation ID	Location	Radon Activity pCi/L	Start	Stop	Temperature F	Humidity %	Sample Type
225167 381509989-0051	Office 124, File Cabinet 5'	0.9	12/11/2015 11:05:00 AM	12/14/2015 8:36:00 AM	72	60	Customer

Sample Notes:

225150 381509989-0052	Office 124, File Cabinet 5'	1.1	12/11/2015 11:05:00 AM	12/14/2015 8:36:00 AM	72	60	Customer
--------------------------	--------------------------------	-----	---------------------------	--------------------------	----	----	----------

Sample Notes:

Summary for EMSL Kit 133520 Average Radon Result: 1.0 pCi/L

Samples for EMSL Kit 133484

Liquid Scintillation ID	Location	Radon Activity pCi/L	Start	Stop	Temperature F	Humidity %	Sample Type
225613 381509989-0053	B	0	12/11/2015 11:07:00 AM	12/14/2015 8:36:00 AM	72	60	Customer

Sample Notes:

225078 381509989-0054	B	0.1	12/11/2015 11:07:00 AM	12/14/2015 8:36:00 AM	72	60	Customer
--------------------------	---	-----	---------------------------	--------------------------	----	----	----------

Sample Notes:

Summary for EMSL Kit 133484 Average Radon Result: 0.1 pCi/L

**EMSL Analytical, Inc.**

200 Route 130 North, Cinnaminson, NJ 08077
 Phone/Fax: (800) 220-3675 / (856) 786-0327
<http://www.EMSL.com> cinnaminsonradonlab@emsl.com

EMSL Order: 381509989
 CustomerID: LEID42
 CustomerPO:
 ProjectID:

Attn: **John Whelpley**
Leidos Engineering, LLC
11951 Freedom Dr.
Reston, VA 20190

Phone: (571) 268-0697
 Fax:
 Received: 12/15/15 12:30 PM
 Analysis Date: 12/16/2015
 Collected: 12/11/2015

Project: **Wilson Wims ES / 12520 Blue Sky Drive**

Test Site: **Wilson Wims ES**
12520 Blue Sky Drive
Clarksburg, MD 20871

Test Report: Radon in Air Test Results**Samples for EMSL Kit 133477**

Liquid Scintillation ID	Location	Radon Activity pCi/L	Start	Stop	Temperature F	Humidity %	Sample Type
225103 381509989-0055	Classroom 186, NW Side, Shelf 6'	0.5	12/11/2015 11:09:00 AM	12/14/2015 8:37:00 AM	70	60	Customer

Sample Notes:

225175 381509989-0056	Classroom 186, NW Side, Shelf 6'	0.7	12/11/2015 11:09:00 AM	12/14/2015 8:37:00 AM	70	60	Customer
--------------------------	-------------------------------------	-----	---------------------------	--------------------------	----	----	----------

Sample Notes:

Summary for EMSL Kit 133477 Average Radon Result: 0.6 pCi/L

Samples for EMSL Kit 133476

Liquid Scintillation ID	Location	Radon Activity pCi/L	Start	Stop	Temperature F	Humidity %	Sample Type
225202 381509989-0057	Classroom 188, NE Side, Shelf 6'	0.6	12/11/2015 11:11:00 AM	12/14/2015 8:38:00 AM	70	60	Customer

Sample Notes:

225184 381509989-0058	Classroom 188, NE Side, Shelf 6'	0.6	12/11/2015 11:11:00 AM	12/14/2015 8:38:00 AM	70	60	Customer
--------------------------	-------------------------------------	-----	---------------------------	--------------------------	----	----	----------

Sample Notes:

Summary for EMSL Kit 133476 Average Radon Result: 0.6 pCi/L

Samples for EMSL Kit 133464

Liquid Scintillation ID	Location	Radon Activity pCi/L	Start	Stop	Temperature F	Humidity %	Sample Type
225218 381509989-0059	Classroom 190, NW Side, Shelf 6'	0.7	12/11/2015 11:12:00 AM	12/14/2015 8:39:00 AM	76	60	Customer

Sample Notes:

225204 381509989-0060	Classroom 190, NW Side, Shelf 6'	0.5	12/11/2015 11:12:00 AM	12/14/2015 8:39:00 AM	76	60	Customer
--------------------------	-------------------------------------	-----	---------------------------	--------------------------	----	----	----------

Sample Notes:

Summary for EMSL Kit 133464 Average Radon Result: 0.6 pCi/L

**EMSL Analytical, Inc.**

200 Route 130 North, Cinnaminson, NJ 08077
 Phone/Fax: (800) 220-3675 / (856) 786-0327
<http://www.EMSL.com> cinnaminsonradonlab@emsl.com

EMSL Order: 381509989
 CustomerID: LEID42
 CustomerPO:
 ProjectID:

Attn: **John Whelpley**
Leidos Engineering, LLC
11951 Freedom Dr.
Reston, VA 20190

Phone: (571) 268-0697
 Fax:
 Received: 12/15/15 12:30 PM
 Analysis Date: 12/16/2015
 Collected: 12/11/2015

Project: **Wilson Wims ES / 12520 Blue Sky Drive**

Test Site: **Wilson Wims ES**
12520 Blue Sky Drive
Clarksburg, MD 20871

Test Report: Radon in Air Test Results**Samples for EMSL Kit 133475**

Liquid Scintillation ID	Location	Radon Activity pCi/L	Start	Stop	Temperature F	Humidity %	Sample Type
225255	D	0.5	12/11/2015	12/14/2015	76	60	Customer
381509989-0061			11:14:00 AM	8:40:00 AM			

Sample Notes:

225249	D	0.6	12/11/2015	12/14/2015	76	60	Customer
381509989-0062			11:14:00 AM	8:40:00 AM			

Sample Notes:

Summary for EMSL Kit 133475 **Average Radon Result: 0.6 pCi/L**

Samples for EMSL Kit 133522

Liquid Scintillation ID	Location	Radon Activity pCi/L	Start	Stop	Temperature F	Humidity %	Sample Type
225124	Classroom 192, NW Side, Shelf 6'	0.5	12/11/2015	12/14/2015	70	50	Customer
381509989-0063			11:17:00 AM	8:41:00 AM			

Sample Notes:

225166	Classroom 192, NW Side, Shelf 6'	0.4	12/11/2015	12/14/2015	70	50	Customer
381509989-0064			11:17:00 AM	8:41:00 AM			

Sample Notes:

Summary for EMSL Kit 133522 **Average Radon Result: 0.4 pCi/L**

Samples for EMSL Kit 133478

Liquid Scintillation ID	Location	Radon Activity pCi/L	Start	Stop	Temperature F	Humidity %	Sample Type
225213	Classroom 113, NE Side, Computer Shelf 5'	0.7	12/11/2015	12/14/2015	70	60	Customer
381509989-0065			11:20:00 AM	8:45:00 AM			

Sample Notes:

225196	Classroom 113, NE Side, Computer Shelf 5'	0.6	12/11/2015	12/14/2015	70	60	Customer
381509989-0066			11:20:00 AM	8:45:00 AM			

Sample Notes:

Summary for EMSL Kit 133478 **Average Radon Result: 0.6 pCi/L**

**EMSL Analytical, Inc.**

200 Route 130 North, Cinnaminson, NJ 08077
 Phone/Fax: (800) 220-3675 / (856) 786-0327
<http://www.EMSL.com> cinnaminsonradonlab@emsl.com

EMSL Order: 381509989
 CustomerID: LEID42
 CustomerPO:
 ProjectID:

Attn: **John Whelpley**
Leidos Engineering, LLC
11951 Freedom Dr.
Reston, VA 20190

Phone: (571) 268-0697
 Fax:
 Received: 12/15/15 12:30 PM
 Analysis Date: 12/16/2015
 Collected: 12/11/2015

Project: **Wilson Wims ES / 12520 Blue Sky Drive**

Test Site: **Wilson Wims ES**
12520 Blue Sky Drive
Clarksburg, MD 20871

Test Report: Radon in Air Test Results**Samples for EMSL Kit 133474**

Liquid Scintillation ID	Location	Radon Activity pCi/L	Start	Stop	Temperature F	Humidity %	Sample Type
225195 381509989-0067	Library 107, NE Side, Bookshelf 6'	0.8	12/11/2015 11:24:00 AM	12/14/2015 8:49:00 AM	70	70	Customer

Sample Notes:

225200 381509989-0068	Library 107, NE Side, Bookshelf 6'	0.6	12/11/2015 11:24:00 AM	12/14/2015 8:49:00 AM	70	70	Customer
--------------------------	---------------------------------------	-----	---------------------------	--------------------------	----	----	----------

Sample Notes:

Summary for EMSL Kit 133474 Average Radon Result: 0.7 pCi/L

Samples for EMSL Kit 133472

Liquid Scintillation ID	Location	Radon Activity pCi/L	Start	Stop	Temperature F	Humidity %	Sample Type
225197 381509989-0069	Library 107, SW Side, Bookshelf 6'	0.9	12/11/2015 11:25:00 AM	12/14/2015 8:50:00 AM	70	70	Customer

Sample Notes:

225250 381509989-0070	Library 107, SW Side, Bookshelf 6'	0.8	12/11/2015 11:25:00 AM	12/14/2015 8:50:00 AM	70	70	Customer
--------------------------	---------------------------------------	-----	---------------------------	--------------------------	----	----	----------

Sample Notes:

Summary for EMSL Kit 133472 Average Radon Result: 0.9 pCi/L

Samples for EMSL Kit 133490

Liquid Scintillation ID	Location	Radon Activity pCi/L	Start	Stop	Temperature F	Humidity %	Sample Type
225603 381509989-0071	Library Office 111, NE Side, Shelf 6'	0.6	12/11/2015 11:29:00 AM	12/14/2015 8:52:00 AM	76	70	Customer

Sample Notes:

225098 381509989-0072	Library Office 111, NE Side, Shelf 6'	0.6	12/11/2015 11:29:00 AM	12/14/2015 8:52:00 AM	76	70	Customer
--------------------------	--	-----	---------------------------	--------------------------	----	----	----------

Sample Notes:

Summary for EMSL Kit 133490 Average Radon Result: 0.6 pCi/L

**EMSL Analytical, Inc.**

200 Route 130 North, Cinnaminson, NJ 08077

Phone/Fax: (800) 220-3675 / (856) 786-0327

<http://www.EMSL.com>cinnaminsonradonlab@emsl.com

EMSL Order: 381509989

CustomerID: LEID42

CustomerPO:

ProjectID:

Attn: **John Whelpley**
Leidos Engineering, LLC
11951 Freedom Dr.
Reston, VA 20190

Phone: (571) 268-0697
 Fax:
 Received: 12/15/15 12:30 PM
 Analysis Date: 12/16/2015
 Collected: 12/11/2015

Project: **Wilson Wims ES / 12520 Blue Sky Drive**

Test Site: **Wilson Wims ES**
12520 Blue Sky Drive
Clarksburg, MD 20871

Test Report: Radon in Air Test Results**Samples for EMSL Kit 133483**

Liquid Scintillation ID	Location	Radon Activity pCi/L	Start	Stop	Temperature F	Humidity %	Sample Type
225112 381509989-0073	Classroom 180, E Side, Shelf 6'	0.7	12/11/2015 11:33:00 AM	12/14/2015 8:14:00 AM	74	60	Customer

Sample Notes:

225110 381509989-0074	Classroom 180, E Side, Shelf 6'	0.8	12/11/2015 11:33:00 AM	12/14/2015 8:14:00 AM	74	60	Customer
--------------------------	------------------------------------	-----	---------------------------	--------------------------	----	----	----------

Sample Notes:**Summary for EMSL Kit 133483 Average Radon Result: 0.8 pCi/L****Samples for EMSL Kit 133461**

Liquid Scintillation ID	Location	Radon Activity pCi/L	Start	Stop	Temperature F	Humidity %	Sample Type
225210 381509989-0075	Classroom 172, Shelf 6'	0.8	12/11/2015 11:34:00 AM	12/14/2015 8:20:00 AM	68	60	Customer

Sample Notes:

225287 381509989-0076	Classroom 172, Shelf 6'	1.1	12/11/2015 11:34:00 AM	12/14/2015 8:20:00 AM	68	60	Customer
--------------------------	----------------------------	-----	---------------------------	--------------------------	----	----	----------

Sample Notes:**Summary for EMSL Kit 133461 Average Radon Result: 1.0 pCi/L****Samples for EMSL Kit 133469**

Liquid Scintillation ID	Location	Radon Activity pCi/L	Start	Stop	Temperature F	Humidity %	Sample Type
225602 381509989-0077	Classroom 160, Shelf 6'	1.3	12/11/2015 11:41:00 AM	12/14/2015 8:22:00 AM	76	30	Customer

Sample Notes:

225311 381509989-0078	Classroom 160, Shelf 6'	1	12/11/2015 11:41:00 AM	12/14/2015 8:22:00 AM	76	30	Customer
--------------------------	----------------------------	---	---------------------------	--------------------------	----	----	----------

Sample Notes:**Summary for EMSL Kit 133469 Average Radon Result: 1.1 pCi/L**

**EMSL Analytical, Inc.**

200 Route 130 North, Cinnaminson, NJ 08077
 Phone/Fax: (800) 220-3675 / (856) 786-0327
<http://www.EMSL.com> cinnaminsonradonlab@emsl.com

EMSL Order: 381509989
 CustomerID: LEID42
 CustomerPO:
 ProjectID:

Attn: **John Whelpley**
Leidos Engineering, LLC
11951 Freedom Dr.
Reston, VA 20190

Phone: (571) 268-0697
 Fax:
 Received: 12/15/15 12:30 PM
 Analysis Date: 12/16/2015
 Collected: 12/11/2015

Project: **Wilson Wims ES / 12520 Blue Sky Drive**

Test Site: **Wilson Wims ES**
12520 Blue Sky Drive
Clarksburg, MD 20871

Test Report: Radon in Air Test Results**Samples for EMSL Kit 133485**

Liquid Scintillation ID	Location	Radon Activity pCi/L	Start	Stop	Temperature F	Humidity %	Sample Type
225161 381509989-0079	Kitchen Office 110B, W Side, F. 5'	0.3	12/11/2015 11:46:00 AM	12/14/2015 8:46:00 AM	72	60	Customer

Sample Notes:

225193 381509989-0080	Kitchen Office 110B, W Side, F. 5'	0.2	12/11/2015 11:46:00 AM	12/14/2015 8:46:00 AM	72	60	Customer
--------------------------	---------------------------------------	-----	---------------------------	--------------------------	----	----	----------

Sample Notes:

Summary for EMSL Kit 133485 Average Radon Result: 0.3 pCi/L

Samples for EMSL Kit 133462

Liquid Scintillation ID	Location	Radon Activity pCi/L	Start	Stop	Temperature F	Humidity %	Sample Type
225221 381509989-0081	D	0.1	12/11/2015 11:48:00 AM	12/14/2015 8:47:00 AM	72	60	Customer

Sample Notes:

225275 381509989-0082	D	0.3	12/11/2015 11:48:00 AM	12/14/2015 8:47:00 AM	72	60	Customer
--------------------------	---	-----	---------------------------	--------------------------	----	----	----------

Sample Notes:

Summary for EMSL Kit 133462 Average Radon Result: 0.2 pCi/L

Samples for EMSL Kit 133465

Liquid Scintillation ID	Location	Radon Activity pCi/L	Start	Stop	Temperature F	Humidity %	Sample Type
225104 381509989-0083	APR, Cafeteria, Elec. C. 5'	0.4	12/11/2015 11:49:00 AM	12/14/2015 8:48:00 AM	70	70	Customer

Sample Notes:

225318 381509989-0084	APR, Cafeteria, Elec. C. 5'	0.3	12/11/2015 11:49:00 AM	12/14/2015 8:48:00 AM	70	70	Customer
--------------------------	--------------------------------	-----	---------------------------	--------------------------	----	----	----------

Sample Notes:

Summary for EMSL Kit 133465 Average Radon Result: 0.4 pCi/L



EMSL Analytical, Inc.

200 Route 130 North, Cinnaminson, NJ 08077
Phone/Fax: (800) 220-3675 / (856) 786-0327
<http://www.EMSL.com> cinnaminsonradonlab@emsl.com

EMSL Order: 381509989
CustomerID: LEID42
CustomerPO:
ProjectID:

Attn: **John Whelpley**
Leidos Engineering, LLC
11951 Freedom Dr.
Reston, VA 20190

Phone: (571) 268-0697
Fax:
Received: 12/15/15 12:30 PM
Analysis Date: 12/16/2015
Collected: 12/11/2015

Project: **Wilson Wims ES / 12520 Blue Sky Drive**

Test Site: **Wilson Wims ES**
12520 Blue Sky Drive
Clarksburg, MD 20871

Test Report: Radon in Air Test Results

Samples for EMSL Kit 133470

Liquid Scintillation ID	Location	Radon Activity pCi/L	Start	Stop	Temperature F	Humidity %	Sample Type
225635 381509989-0085	Gym Office, 187A, S. Side, Shelf 6'	0.7	12/11/2015 11:53:00 AM	12/14/2015 8:43:00 AM	78	70	Customer
Sample Notes:							
225182 381509989-0086	Gym Office, 187A, S. Side, Shelf 6'	0.6	12/11/2015 11:53:00 AM	12/14/2015 8:43:00 AM	78	70	Customer
Sample Notes:							

Summary for EMSL Kit 133470 **Average Radon Result: 0.6 pCi/L**

The radon test was performed using a liquid scintillation radon detector/s and counted on a liquid scintillation counter using approved EPA testing protocols for Radon in Air testing. The EPA recommends fixing your home if the average of two short-term tests taken in the lowest lived-in level of the home show radon levels that are equal to or greater than 4.0pCi/L. The EPA recommends retesting your home every two years.

Please contact EMSL Analytical, Inc. or your State Health Department for further information. All procedures used for generating this report are in complete accordance with the current EPA protocols for the analysis of Radon in Air.

Report Note

Analyst(s)
Tiffanie Cosgrove (86)

Laura Freeman Subash Rashat
Laura Freeman, Interim Laboratory Manager &
Subash Rashat, New Jersey Radiation Specialist NJ MES 10152
or other approved signatory

In no event shall EMSL be liable for indirect, special, consequential, or incidental damages, including, but not limited to, damages for loss of profit or goodwill regardless of the negligence (either sole or concurrent) of EMSL and whether EMSL has been informed of the possibility of such damages, arising out of or in connection with EMSL's services thereunder or the delivery, use, reliance upon or interpretation of test results by client or any third party. We accept no legal responsibility for the purposes for which the client uses the test results. In no event shall EMSL be liable to a client or any third party, whether based upon theories of tort, contract or any other legal or equitable theory, in excess of the amount paid to EMSL by client thereunder. The test results meets all NELAC requirements unless otherwise specified. Accreditations: NRSB ARL6006, NJ DEP 03036, MEB 92525, PA 2573, IN 00455, IA L00032, RI RAS-024, ME 20200C, NE RMB-1083, NY ELAP 10872, NM 885-10L, FL RB2034, OH RL-39, NRPP #106178AL, KS-LB-0005

Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ Accreditations: NRSB ARL6006, NJ DEP 03036, MEB 92525, PA 2573, IN 00455, IA L00032, RI RAS-024, ME 20200C, NE RMB-1083, NY ELAP 10872, NM 885-10L, FL RB2034, OH RL-39, NRPP #106178AL, KS-LB-0005. Subash Rashat certification #MES10152

Initial report from 12/18/2015 10:59:55

Please visit www.radontestinglab.com