

School / Facility Radon Testing Report Form

School Year: **24-25**

Facility:	Rocky Hill Middle School		
Address:	22401 Brick Haven Way		
	Clarksburg, MD 20871		
Reason for Testing:	Scheduled Re-Testing - <input type="checkbox"/> 2-year or <input checked="" type="checkbox"/> 5-year schedule <input type="checkbox"/> Clearance Testing (Post-Mitigation) <input type="checkbox"/> Building Envelope or HVAC Upgrades <input type="checkbox"/> New Construction – Addition or 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 (New Facility)		
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 <input type="checkbox"/> Required (≥ 4.0 -pCi/L) Rooms:	<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)		
Number of Rooms Tested	70	Lowest Value (pCi/L)	<0.3
Number of Rooms (≥ 4.0 -pCi/L)	0	Highest Value (pCi/L)	3.1

Instructions: Submit one testing report form per-facility. 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.

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)
Other—Specify here:		
Detector/Device Name:	Air Chek – Radon Test Kits	
Manufacturer:	Radon Labs	
Person(s) Deploying or Retrieving Test Devices and certification number		Organization/Company
Brittany Maas		KCI Technologies, Inc.
If noncertified individuals, the qualified measurement professional providing oversight -		
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):	3/4/2025
<input type="checkbox"/> Long-Term				3/7/2025
Does the test period include weekends, school breaks or holidays?				<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
If “Yes” please explain/detail in the space below:				
Was HVAC operating under occupied conditions?				<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
If “No” please explain/detail in the space below:				

Testing (continued)

Round of Testing	Detectors Deployed				
	Ground-Contact		Upper-Level(s)		Total
	Initial	Follow-Up	Initial	Follow-Up	
Test Locations ¹	66	0	4	0	70
Duplicates ²	8	0	0	0	8
Field Blanks ³	4	0	0	0	4
Grand Total					82

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.

Round of Testing	QA/QC Samples		Total
	Initial	Follow-Up	
Spikes ¹	Not applicable		10
Trip Blanks ²	1	0	1
Office Blanks ^{3, 4}	1	0	1
			12

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.

Quality Assurance / Quality Control (continued)

Spike Sample Lab Results. Measured values are satisfactory, i.e., within $\pm 25\%$ 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 submitted testing organization's/company's QA plan?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Round of Testing	Initial Follow-Up
All Field, Trip and Office Blanks are \leq (less than or equal to) to the Method Detection Limit?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No <input checked="" type="checkbox"/> No
For all Duplicate Samples ¹ , the higher value is $\leq 2x$ the lower value?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No <input checked="" type="checkbox"/> No
For all Duplicate Samples ¹ , Relative Percent Difference(s) (RPD) ² are less than the Warning Level ³ ?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No <input checked="" type="checkbox"/> No
For all Duplicate Samples ¹ , Relative Percent Difference(s) (RPD) ² are less than the Control Level ³ ?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No <input checked="" type="checkbox"/> No

1 – Duplicate Control – a “NO” response constitute a control failure and the space/location represented by the duplicate sample becomes an invalid measurement location and should be listed in the “Invalid Measurement Locations” Table attached to this report.

2 - The objective of duplicate tests is to assess the precision error of the measurement method or, how well two side-by-side measurements agree or disagree. Precision involving duplicates is calculated by using Relative Percent Difference (RPD). RPD is equal to the difference between the higher test result minus the lower value test result divided by the average of the two duplicate test results, multiplied by 100. The RPD result is then compared to the warning and control limits.

3 - The Warning Level is set at the deviation from ideal performance that would be expected to occur by chance only 5% of the time, and Control Limits are set at that deviation from ideal performance that would be expected to occur by chance only 1% of the time. The Warning Level indicates a potential problem, which should be investigated. The Control Level indicates that the measurement system should be subject to corrective action.

The control and warning levels for duplicates, based on the averaged duplicate test result, are -

Average concentration of the two duplicate test results	Warning Level	Control Level
< 2.0-pCi/L	1-pCi/L	Not applicable
Between 2.0 and 3.9-pCi/L	50% RPD	67% RPD
≥ 4.0 -pCi/L	28% RPD	36% RPD

Summary of Test Results¹ and Determination of Valid Measurements²

Round of Testing	Ground-Contact		Upper-Level(s)		Total
	Initial	Follow-Up	Initial	Follow-Up	
Number of test locations:	66	0	4	0	70
Number of locations ≥ 8.0 -pCi/L:	0	0	0	0	0
Number of locations ≥ 4.0 and ≤ 8 -pCi/L:	0	0	0	0	0
Number of locations ≥ 2.7 and < 4 -pCi/L:	2	0	0	0	2
Number of locations ≥ 2.0 and < 2.7 -pCi/L:	0	0	0	0	0
Number of missing required test locations ³ :	1	0	0	0	1
Number of failed duplicate control locations:	0	0	0	0	0
Percentage of missing test locations for the facility ^{4,5} :	1.5%	0	0	0	1.5%

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)

Round of Testing	Initial	Follow-Up
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	<input type="checkbox"/> Yes <input checked="" 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	<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 sufficient valid measurements obtained?^{1,2} If Yes, then - ‘No Further Testing Needed’ complete Conclusion section on first page. If No, then - ‘Follow-up Testing Required’ continue below.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" 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.

Follow-Up Testing

Required –

- If an insufficient number (greater than the allowance provided above) of valid measurements were obtained during the initial round of testing (the “missing required test locations” in the table above);
- Any location test results ≥ 4.0-pCi/L;
- Any location where duplicates fail QC checks; and or
- At the discretion of MCPS IAQ Staff

Reason for Follow-Up Testing	Testing Procedure	Follow-up Result	Conclusion
Insufficient Number of Measurements	Follow same procedures as Initial Testing	Not Applicable	Follow Initial Testing procedures
Results ≥ 4.0 -pCi/L	Deploy two Short-term follow-up tests and required blanks and duplicates; Average the results of the two tests	≥ 4.0	Mitigation Required
Failed QC checks		≥ 2.0 and < 4.0	Consider Mitigation
		< 2.0	Mitigation Not Required

- ***If follow-up testing identifies additional spaces requiring additional testing it will be performed as part of the ongoing follow-testing round.***

Attachment 1:

Summary Data Tables

Table 1- Radon Testing Results		
Rocky Hill Middle School		
Test Period: 3/4/2025 - 3/7/2025		
Kit Number	Room / Area	Result
11886802	102	1.0
11886855	103	1.6
11886864	105	1.0
11886850	106	0.8
11886827	114	< 0.3
11886862	120	< 0.3
11886867	120	< 0.3
11886868	120	< 0.3
11886865	122	0.5
11886866	124	< 0.3
11886874	125	< 0.3
11886876	130	0.6
11886869	132	0.7
11886873	134	< 0.3
11886857	140	< 0.3
11886861	142	< 0.3
11886839	143	< 0.3
11886840	143	< 0.3
11886860	145	< 0.3
11886848	149	< 0.3
11886823	150	1.0
11886815	151	< 0.3
11886821	151	< 0.3
11886822	151	< 0.3
11886810	152	1.9
11886816	153	0.6
11886824	155	< 0.3
11886828	156	0.6
11886853	157	0.8
11886829	158	1.1
11886830	160	1.5
11886835	162	1.2
11886836	162	1.2
11886845	164	0.7
11886846	166	0.6
11886842	167	0.6
11886851	168	< 0.3
11886803	169	< 0.3

Table 1- Radon Testing Results		
Rocky Hill Middle School		
Test Period: 3/4/2025 - 3/7/2025		
11886804	169	< 0.3
11886834	169	< 0.3
11886837	170	< 0.3
11886838	173	< 0.3
11886852	176	0.6
11886833	178	0.7
11886841	180	0.6
11886831	258	< 0.3
11886832	266	< 0.3
11886854	276	< 0.3
11886843	348	< 0.3
11886844	371	0.6
11886808	100A	< 0.3
11886811	100A WAGNER	0.5
11886812	100C	< 0.3
11886883	100D	0.9
11886814	100E	< 0.3
11886807	100F	< 0.3
11886809	100G	< 0.3
11886805	100H	1.9
11886877	101D	2.7
11886882	101F	< 0.3
11886881	101L	< 0.3
11886885	101L	0.8
11886886	101L	0.8
11886806	102A	1.0
11886863	103A	1.9
11886818	114A	< 0.3
11886817	114B	1.1
11886820	114D	1.0
11886825	114E	< 0.3
11886826	114F	< 0.3
11886813	114H	< 0.3
11886819	114H	< 0.3
11886847	140A CLASSROOM	< 0.3
11886858	140A OFFICE	< 0.3
11886849	143A	< 0.3
11886878	CAFETERIA	1.1
11886884	CAFETERIA	0.8

Table 1- Radon Testing Results		
Rocky Hill Middle School		
Test Period: 3/4/2025 - 3/7/2025		
11886856	GYM	0.7
11886870	GYM	< 0.3
11886875	GYM	0.6
11886801	Main Office	Missing Kit
11886859	SECURITY	3.1

[illegible]

Table 3 - QC Radon Testing Results			
Rocky Hill Middle School			
Test Period: 3/4/2025 - 3/7/2025			
Kit Number	QC Type	Room / Area	Result
11886867	D	120	< 0.3
11886868	FB	120	< 0.3
11886839	D	143	< 0.3
11886821	D	151	< 0.3
11886822	FB	151	< 0.3
11886836	D	162	1.2
11886834	D	169	< 0.3
11886804	FB	169	< 0.3
11886886	D	101L	0.8
11886881	FB	101L	< 0.3
11886819	D	114H	< 0.3
11886856	D	Gym	0.7
11887000	OB	OFFICE BLANK	< 0.3
11886974	TB	TRAVEL BLANK	< 0.3

Table 3a - Duplicate Worksheet / Data Validation										
Rocky Hill Middle School										
Test Period: 3/4/2025 - 3/7/2025										
Sample ID			Duplicate Concentrations (pCi/L) and OC Checks							
Kit Numbers		Room / Area	Higher	Lower	Check #1 (Pass/Fail)	2x the Lower	Check #2 (Pass/Fail)	Average	Relative Percent Difference (RPD)	Check #3
11886867	11886862	120	0.3	0.3	✓	0.6	PASS	0.3	<1-pCi/L	✓
11886839	11886840	143	0.3	0.3	✓	0.6	PASS	0.3	<1-pCi/L	✓
11886821	11886815	151	0.3	0.3	✓	0.6	PASS	0.3	<1-pCi/L	✓
11886836	11886835	162	1.7	1.2	✓	2.4	PASS	1.5	<1-pCi/L	✓
11886834	11886803	169	0.3	0.3	✓	0.6	PASS	0.3	<1-pCi/L	✓
11886886	11886885	101L	0.8	0.8	✓	1.6	PASS	0.8	<1-pCi/L	✓
11886819	11886813	114H	0.3	0.3	✓	0.6	PASS	0.3	<1-pCi/L	✓
11886856	11886875	Gym	0.7	0.6	✓	1.2	PASS	0.7	<1-pCi/L	✓
NOTES: QC Check #1 - Data Entry QC Check #2 - Higher duplicate concentration is < or = to 2x the Lower QC Check #3 - Meets RPD Limits, by average duplicate concentration							Average (pCi/L)	Warning Level	Control Level	
							< 2.0	1-pCi/L	NA	
							Between 2.0 and 3.9	50% RPD	67% RPD	
							≥ 4.0	28% RPD	36% RPD	

[illegible]

Attachment 2:

Laboratory Reports

Radon test result report for:**ROCKY HILL MS
MAIN**

Kit #	Room Id	Started	Ended	pCi/L	Analyzed
11886808	100A	2025-03-04 @ 8:00 am	2025-03-07 @ 8:00 am	< 0.3	2025-03-11
11886811	100A WAGNER	2025-03-04 @ 8:00 am	2025-03-07 @ 8:00 am	0.5 ± 0.3	2025-03-11
11886812	100C	2025-03-04 @ 8:00 am	2025-03-07 @ 8:00 am	< 0.3	2025-03-11
11886883	100D	2025-03-04 @ 10:00 am	2025-03-07 @ 8:00 am	0.9 ± 0.3	2025-03-11
11886814	100E	2025-03-04 @ 8:00 am	2025-03-07 @ 8:00 am	< 0.3	2025-03-11
11886807	100F	2025-03-04 @ 8:00 am	2025-03-07 @ 8:00 am	< 0.3	2025-03-11
11886809	100G	2025-03-04 @ 8:00 am	2025-03-07 @ 8:00 am	< 0.3	2025-03-11
11886805	100H	2025-03-04 @ 8:00 am	2025-03-07 @ 8:00 am	1.9 ± 0.4	2025-03-11
11886877	101D	2025-03-04 @ 10:00 am	2025-03-07 @ 9:00 am	2.7 ± 0.4	2025-03-11
11886882	101F	2025-03-04 @ 10:00 am	2025-03-07 @ 7:00 am	< 0.3	2025-03-11
11886881	101L	2025-03-04 @ 10:00 am	2025-03-07 @ 7:00 am	< 0.3	2025-03-11
11886885	101L	2025-03-04 @ 10:00 am	2025-03-07 @ 7:00 am	0.8 ± 0.4	2025-03-11
11886886	101L	2025-03-04 @ 10:00 am	2025-03-07 @ 7:00 am	0.8 ± 0.3	2025-03-11
11886802	102	2025-03-04 @ 8:00 am	2025-03-07 @ 8:00 am	1.0 ± 0.3	2025-03-11
11886806	102A	2025-03-04 @ 8:00 am	2025-03-07 @ 8:00 am	1.0 ± 0.4	2025-03-11
11886855	103	2025-03-04 @ 10:00 am	2025-03-07 @ 8:00 am	1.6 ± 0.4	2025-03-11
11886863	103A	2025-03-04 @ 10:00 am	2025-03-07 @ 8:00 am	1.9 ± 0.4	2025-03-11
11886864	105	2025-03-04 @ 10:00 am	2025-03-07 @ 8:00 am	1.0 ± 0.3	2025-03-11
11886850	106	2025-03-04 @ 8:00 am	2025-03-07 @ 8:00 am	0.8 ± 0.3	2025-03-11
11886827	114	2025-03-04 @ 8:00 am	2025-03-07 @ 8:00 am	< 0.3	2025-03-11
11886818	114A	2025-03-04 @ 8:00 am	2025-03-07 @ 8:00 am	< 0.3	2025-03-11
11886817	114B	2025-03-04 @ 8:00 am	2025-03-07 @ 8:00 am	1.1 ± 0.4	2025-03-11
11886820	114D	2025-03-04 @ 8:00 am	2025-03-07 @ 8:00 am	1.0 ± 0.4	2025-03-11
11886825	114E	2025-03-04 @ 8:00 am	2025-03-07 @ 8:00 am	< 0.3	2025-03-11
11886826	114F	2025-03-04 @ 8:00 am	2025-03-07 @ 8:00 am	< 0.3	2025-03-11
11886819	114H	2025-03-04 @ 8:00 am	2025-03-07 @ 8:00 am	< 0.3	2025-03-11
11886813	114H	2025-03-04 @ 8:00 am	2025-03-07 @ 8:00 am	< 0.3	2025-03-11
11886868	120	2025-03-04 @ 9:00 am	2025-03-07 @ 8:00 am	< 0.3	2025-03-11
11886862	120	2025-03-04 @ 9:00 am	2025-03-07 @ 8:00 am	< 0.3	2025-03-11
11886867	120	2025-03-04 @ 9:00 am	2025-03-07 @ 8:00 am	< 0.3	2025-03-11
11886865	122	2025-03-04 @ 9:00 am	2025-03-07 @ 8:00 am	0.5 ± 0.3	2025-03-11
11886866	124	2025-03-04 @ 9:00 am	2025-03-07 @ 8:00 am	< 0.3	2025-03-11
11886874	125	2025-03-04 @ 10:00 am	2025-03-07 @ 8:00 am	< 0.3	2025-03-11
11886876	130	2025-03-04 @ 10:00 am	2025-03-07 @ 8:00 am	0.6 ± 0.3	2025-03-11
11886869	132	2025-03-04 @ 10:00 am	2025-03-07 @ 8:00 am	0.7 ± 0.3	2025-03-11
11886873	134	2025-03-04 @ 10:00 am	2025-03-07 @ 8:00 am	< 0.3	2025-03-11
11886857	140	2025-03-04 @ 9:00 am	2025-03-07 @ 8:00 am	< 0.3	2025-03-11

Radon test result report for:**ROCKY HILL MS
MAIN**

Kit #	Room Id	Started	Ended	pCi/L	Analyzed
11886847	140A CLASSROOM	2025-03-04 @ 9:00 am	2025-03-07 @ 8:00 am	< 0.3	2025-03-11
11886858	140A OFFICE	2025-03-04 @ 10:00 am	2025-03-07 @ 8:00 am	< 0.3	2025-03-11
11886861	142	2025-03-04 @ 9:00 am	2025-03-07 @ 8:00 am	< 0.3	2025-03-11
11886839	143	2025-03-04 @ 9:00 am	2025-03-07 @ 8:00 am	< 0.3	2025-03-11
11886840	143	2025-03-04 @ 9:00 am	2025-03-07 @ 8:00 am	< 0.3	2025-03-11
11886849	143A	2025-03-04 @ 9:00 am	2025-03-07 @ 8:00 am	< 0.3	2025-03-11
11886860	145	2025-03-04 @ 9:00 am	2025-03-07 @ 8:00 am	< 0.3	2025-03-11
11886848	149	2025-03-04 @ 9:00 am	2025-03-07 @ 8:00 am	< 0.3	2025-03-11
11886823	150	2025-03-04 @ 8:00 am	2025-03-07 @ 8:00 am	1.0 ± 0.4	2025-03-11
11886822	151	2025-03-04 @ 8:00 am	2025-03-07 @ 8:00 am	< 0.3	2025-03-11
11886815	151	2025-03-04 @ 8:00 am	2025-03-07 @ 8:00 am	< 0.3	2025-03-11
11886821	151	2025-03-04 @ 8:00 am	2025-03-07 @ 8:00 am	< 0.3	2025-03-11
11886810	152	2025-03-04 @ 8:00 am	2025-03-07 @ 8:00 am	1.9 ± 0.4	2025-03-11
11886816	153	2025-03-04 @ 8:00 am	2025-03-07 @ 8:00 am	0.6 ± 0.3	2025-03-11
11886824	155	2025-03-04 @ 8:00 am	2025-03-07 @ 8:00 am	< 0.3	2025-03-11
11886828	156	2025-03-04 @ 8:00 am	2025-03-07 @ 8:00 am	0.6 ± 0.4	2025-03-11
11886853	157	2025-03-04 @ 9:00 am	2025-03-07 @ 8:00 am	0.8 ± 0.3	2025-03-11
11886829	158	2025-03-04 @ 8:00 am	2025-03-07 @ 8:00 am	1.1 ± 0.3	2025-03-11
11886830	160	2025-03-04 @ 8:00 am	2025-03-07 @ 8:00 am	1.5 ± 0.4	2025-03-11
11886836	162	2025-03-04 @ 9:00 am	2025-03-07 @ 8:00 am	1.2 ± 0.4	2025-03-11
11886835	162	2025-03-04 @ 9:00 am	2025-03-07 @ 8:00 am	1.2 ± 0.4	2025-03-11
11886845	164	2025-03-04 @ 9:00 am	2025-03-07 @ 8:00 am	0.7 ± 0.3	2025-03-11
11886846	166	2025-03-04 @ 9:00 am	2025-03-07 @ 8:00 am	0.6 ± 0.3	2025-03-11
11886842	167	2025-03-04 @ 9:00 am	2025-03-07 @ 8:00 am	0.6 ± 0.3	2025-03-11
11886851	168	2025-03-04 @ 9:00 am	2025-03-07 @ 8:00 am	< 0.3	2025-03-11
11886803	169	2025-03-04 @ 9:00 am	2025-03-07 @ 8:00 am	< 0.3	2025-03-11
11886834	169	2025-03-04 @ 9:00 am	2025-03-07 @ 8:00 am	< 0.3	2025-03-11
11886804	169	2025-03-04 @ 9:00 am	2025-03-07 @ 8:00 am	< 0.3	2025-03-11
11886837	170	2025-03-04 @ 9:00 am	2025-03-07 @ 8:00 am	< 0.3	2025-03-11
11886838	173	2025-03-04 @ 9:00 am	2025-03-07 @ 8:00 am	< 0.3	2025-03-11
11886852	176	2025-03-04 @ 9:00 am	2025-03-07 @ 8:00 am	0.6 ± 0.3	2025-03-11
11886833	178	2025-03-04 @ 9:00 am	2025-03-07 @ 8:00 am	0.7 ± 0.4	2025-03-11
11886841	180	2025-03-04 @ 9:00 am	2025-03-07 @ 8:00 am	0.6 ± 0.3	2025-03-11
11886831	258	2025-03-04 @ 9:00 am	2025-03-07 @ 8:00 am	< 0.3	2025-03-11
11886832	266	2025-03-04 @ 9:00 am	2025-03-07 @ 8:00 am	< 0.3	2025-03-11
11886854	276	2025-03-04 @ 9:00 am	2025-03-07 @ 8:00 am	< 0.3	2025-03-11
11886843	348	2025-03-04 @ 9:00 am	2025-03-07 @ 8:00 am	< 0.3	2025-03-11

March 11, 2025

**** LABORATORY ANALYSIS REPORT ****

Radon test result report for:

**ROCKY HILL MS
MAIN**

Kit #	Room Id	Started	Ended	pCi/L	Analyzed
11886844	371	2025-03-04 @ 9:00 am	2025-03-07 @ 8:00 am	0.6 ± 0.3	2025-03-11
11886884	CAFETERIA	2025-03-04 @ 10:00 am	2025-03-07 @ 8:00 am	0.8 ± 0.4	2025-03-11
11886878	CAFETERIA	2025-03-04 @ 10:00 am	2025-03-07 @ 8:00 am	1.1 ± 0.4	2025-03-11
11886856	GYM	2025-03-04 @ 10:00 am	2025-03-07 @ 8:00 am	0.7 ± 0.3	2025-03-11
11886875	GYM	2025-03-04 @ 10:00 am	2025-03-07 @ 8:00 am	0.6 ± 0.3	2025-03-11
11886870	GYM	2025-03-04 @ 10:00 am	2025-03-07 @ 8:00 am	< 0.3	2025-03-11
11886859	SECURITY	2025-03-04 @ 9:00 am	2025-03-07 @ 8:00 am	3.1 ± 0.4	2025-03-11

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

March 11, 2025

**** LABORATORY ANALYSIS REPORT ****

Radon test result report for:

**OFFICE
MAIN**

Kit #	Room Id	Started	Ended	pCi/L	Analyzed
11887000	OB	2025-03-04 @ 11:00 am	2025-03-07 @ 11:00 am	< 0.3	2025-03-11

March 11, 2025

**** LABORATORY ANALYSIS REPORT ****

Radon test result report for:

**TRAVEL
MAIN**

Kit #	Room Id	Started	Ended	pCi/L	Analyzed
11886974	TB	2025-03-04 @ 11:00 am	2025-03-07 @ 11:00 am	< 0.3	2025-03-11

EXPOSURE IN BOWSER-MORNER RADON CHAMBER

CLIENT KCI TECHNOLOGIES, INC Job Number 20001560

NOMINAL Conditions: Radon Conc 50.6 pCi/L Rel. Hum 50.6 % Temp. 70.8 F

Date Start: 12/14/24 Date Stop: 12/17/24 Date Start: _____ Date Stop: _____

Time Start: 0815 Time Stop: 0815 Time Start: _____ Time Stop: _____

Device No.'s: (3) CHAR BAGS Device No.'s: _____

11477880, 11477883, 11477896 _____

B4 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

December 23, 2024

**** LABORATORY ANALYSIS REPORT ****

Radon test result report for:

**SK
MAIN**

Kit #	Room Id	Started	Ended	pCi/L	Analyzed
11477880	SK1	2024-12-14 @ 8:00 am	2024-12-17 @ 8:00 am	52.0 ± 4.2	2024-12-23
11477883	SK2	2024-12-14 @ 8:00 am	2024-12-17 @ 8:00 am	54.6 ± 4.4	2024-12-23
11477896	SK3	2024-12-14 @ 8:00 am	2024-12-17 @ 8:00 am	45.5 ± 3.6	2024-12-23

EXPOSURE IN BOWSER-MORNER RADON CHAMBER

CLIENT KCI TECHNOLOGIES, INC Job Number 20002919

NOMINAL Conditions: Radon Conc 7.0 pCi/L Rel. Hum 51.4 % Temp. 70.7 F

Date Start: 3/7/25 Date Stop: 3/10/25 Date Start: _____ Date Stop: _____

Time Start: 0832 Time Stop: 0832 Time Start: _____ Time Stop: _____

Device No.'s: (7) CHAR BAGS Device No.'s: _____

11886401 thru 11886406,

11886410

G3 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 19, 2025

**** LABORATORY ANALYSIS REPORT ****

Radon test result report for:

QC
MAIN

Kit #	Room Id	Started	Ended	pCi/L	Analyzed
11886401	SK1	2025-03-07 @ 9:00 am	2025-03-10 @ 9:00 am	7.8 ± 1.1	2025-03-19
11886405	SK2	2025-03-07 @ 9:00 am	2025-03-10 @ 9:00 am	7.1 ± 1.1	2025-03-19
11886406	SK3	2025-03-07 @ 9:00 am	2025-03-10 @ 9:00 am	7.7 ± 1.1	2025-03-19
11886403	SK4	2025-03-07 @ 9:00 am	2025-03-10 @ 9:00 am	7.9 ± 1.2	2025-03-19
11886404	SK5	2025-03-07 @ 9:00 am	2025-03-10 @ 9:00 am	7.6 ± 1.2	2025-03-19
11886410	SK6	2025-03-07 @ 9:00 am	2025-03-10 @ 9:00 am	7.0 ± 1.1	2025-03-19
11886402	SK7	2025-03-07 @ 9:00 am	2025-03-10 @ 9:00 am	8.6 ± 1.2	2025-03-19

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Radon Test Kit Chain of Custody

Project Name: MCPS Radon – Testing March 4th – March 7th, 2025

Name of Schools:

1. Poolesville HS
2. Quince Orchard HS
3. Redland MS
4. Ridgeview MS
5. Rocky Hill MS
6. Rosemont ES
7. Poolesville ES

	Date	Initials
Radon Test Kits Deployed	3/4/2025	PM
Radon Test Kits Collected	3/7/2025	PM
Radon Test Kits Shipped to Lab*	3/7/2025	PM
Radon Test Kits Received by Lab*	3/10/2025	PM

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



MCPS RADON TESTING – EXECUTIVE SUMMARY

Site Name	Rocky Hill Middle School
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	1
# Rooms ≥ 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: Rocky Hill Middle School
22401 Brick Haven Way
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 Rocky Hill Middle School, located at 22401 Brick Haven Way, 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 three (3) 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		
Rocky Hill MS RT		
Test Period: 03/22/2022 - 03/25/2022		
Kit Number	Room / Area	Result
11139295	171	< 0.3
11139298	171	< 0.3
11139299	171	< 0.3

Table 2- Radon Testing Results			
Rocky Hill MS RT			
Test Period: 03/22/2022 - 03/25/2022			
Kit Number	QC Type	Room / Area	Result
11139295	D	171	< 0.3
11139298	FB	171	< 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
11139295	171	2022-03-22 @ 11:00 am	2022-03-25 @ 11:00 am	< 0.3	2022-03-28
11139298	171	2022-03-22 @ 11:00 am	2022-03-25 @ 11:00 am	< 0.3	2022-03-28
11139299	171	2022-03-22 @ 11:00 am	2022-03-25 @ 11:00 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



ENGINEERS • PLANNERS • SCIENTISTS • CONSTRUCTION MANAGERS
Corporate Office: 936 Ridgebrook road • Sparks , Maryland 21152 • 410-316-7800 • (Fax) 410-316-7935

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	Rocky Hill Middle 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	66
# 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: Rocky Hill MS
22401 Brick Haven Way
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 Rocky Hill MS, located at 22401 Brick Haven Way 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 seventy six (76) 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		
Rocky Hill MS		
Test Period: 02/14/2022 - 02/17/2022		
Kit Number	Room / Area	Result
11122776	102	< 0.3
11122779	103	1.7
11122786	105	0.9
11122747	106	< 0.3
11122770	109	1.1
11122730	114	< 0.3
11122769	120	0.9
11122767	122	< 0.3
11122768	122	< 0.3
11122742	124	< 0.3
11122744	125	< 0.3
11122764	130	0.9
11122752	132	0.6
11122751	134	< 0.3
11122753	140	< 0.3
11122754	140	< 0.3
11122755	140	0.5
11122763	142	0.6
11122762	143	< 0.3
11122741	145	< 0.3
11122761	149	0.7
11122706	150	0.8
11122729	151	< 0.3
11122704	152	< 0.3
11122712	152	1.1
11122717	152	1.0
11122724	155	0.6
11122728	156	0.6
11122711	157	< 0.3
11122727	158	0.9
11122703	160	1.0
11122726	162	0.8
11122725	164	< 0.3
11122702	166	< 0.3
11122738	166	< 0.3
11122701	167	< 0.3
11122718	168	< 0.3
11122746	169	< 0.3
11122740	173	< 0.3
11122739	176	0.6
11122745	178	< 0.3
11122737	180	< 0.3

Table 1- Radon Testing Results		
Rocky Hill MS		
Test Period: 02/14/2022 - 02/17/2022		
Kit Number	Room / Area	Result
11122758	251	0.7
11122760	251	< 0.3
11122759	259	0.7
11122765	376	< 0.3
11122719	100A	< 0.3
11122720	100A	0.8
11122722	100C	< 0.3
11122721	100D	< 0.3
11122716	100E	0.7
11122713	100F	< 0.3
11122756	100G	< 0.3
11122705	100H	1.2
11122778	101D	< 0.3
11122735	101F	0.6
11122773	102A	< 0.3
11122780	103A	1.8
11122731	114A	< 0.3
11122732	114B	0.6
11122707	114D	< 0.3
11122708	114E	< 0.3
11122709	114F	< 0.3
11122710	114F	< 0.3
11122715	114H	< 0.3
11122734	140A	0.8
11122733	CAFETERIA	< 0.3
11122757	CAFETERIA	< 0.3
11122736	MAIN GYM	< 0.3
11122743	MAIN GYM	< 0.3
11122749	MAIN GYM	< 0.3
11122750	MAIN GYM	< 0.3
11122771	MAIN GYM	< 0.3
11122772	MAIN GYM	0.7
11122714	MAIN OFFICE	< 0.3
11122777	STAGE	< 0.3

Table 2- Radon Testing Results			
Rocky Hill MS			
Test Period: 02/14/2022 - 02/17/2022			
Kit Number	QC Type	Room / Area	Result
11122709	D	114f	< 0.3
11122717	D	152	1.0
11122704	FB	152	< 0.3
11122702	D	166	< 0.3
11122753	D	140	< 0.3
11122754	FB	140	< 0.3
11122767	D	122	< 0.3
11122771	D	Main gym	< 0.3
11122750	FB	Main gym	< 0.3
11122760	D	251	< 0.3
11107385	OB	OFFICE BLANK	< 0.3
11123161	TB	TRAVEL BLANK	< 0.3

ATTACHMENT C

Laboratory Analytical Results

Radon test result report for:**ROCKY HILL MS****1**

Kit #	Room Id	Started	Ended	pCi/L	Analyzed
11122719	100A	2022-02-14 @ 9:00 am	2022-02-17 @ 8:00 am	< 0.3	2022-02-21
11122720	100A	2022-02-14 @ 9:00 am	2022-02-17 @ 8:00 am	0.8 ± 0.4	2022-02-21
11122722	100C	2022-02-14 @ 9:00 am	2022-02-17 @ 8:00 am	< 0.3	2022-02-21
11122721	100D	2022-02-14 @ 9:00 am	2022-02-17 @ 8:00 am	< 0.3	2022-02-21
11122716	100E	2022-02-14 @ 9:00 am	2022-02-17 @ 8:00 am	0.7 ± 0.3	2022-02-21
11122713	100F	2022-02-14 @ 9:00 am	2022-02-17 @ 8:00 am	< 0.3	2022-02-21
11122756	100G	2022-02-14 @ 10:00 am	2022-02-17 @ 8:00 am	< 0.3	2022-02-21
11122705	100H	2022-02-14 @ 9:00 am	2022-02-17 @ 9:00 am	1.2 ± 0.3	2022-02-21
11122778	101D	2022-02-14 @ 11:00 am	2022-02-17 @ 9:00 am	< 0.3	2022-02-21
11122735	101F	2022-02-14 @ 11:00 am	2022-02-17 @ 9:00 am	0.6 ± 0.3	2022-02-21
11122776	102	2022-02-14 @ 11:00 am	2022-02-17 @ 9:00 am	< 0.3	2022-02-21
11122773	102A	2022-02-14 @ 11:00 am	2022-02-17 @ 9:00 am	< 0.3	2022-02-21
11122779	103	2022-02-14 @ 11:00 am	2022-02-17 @ 9:00 am	1.7 ± 0.4	2022-02-21
11122780	103A	2022-02-14 @ 11:00 am	2022-02-17 @ 9:00 am	1.8 ± 0.4	2022-02-21
11122786	105	2022-02-14 @ 11:00 am	2022-02-17 @ 9:00 am	0.9 ± 0.3	2022-02-21
11122747	106	2022-02-14 @ 10:00 am	2022-02-17 @ 8:00 am	< 0.3	2022-02-21
11122770	109	2022-02-14 @ 10:00 am	2022-02-17 @ 9:00 am	1.1 ± 0.4	2022-02-21
11122730	114	2022-02-14 @ 9:00 am	2022-02-17 @ 8:00 am	< 0.3	2022-02-21
11122731	114A	2022-02-14 @ 9:00 am	2022-02-17 @ 8:00 am	< 0.3	2022-02-21
11122732	114B	2022-02-14 @ 9:00 am	2022-02-17 @ 8:00 am	0.6 ± 0.3	2022-02-21
11122707	114D	2022-02-14 @ 9:00 am	2022-02-17 @ 8:00 am	< 0.3	2022-02-21
11122708	114E	2022-02-14 @ 9:00 am	2022-02-17 @ 8:00 am	< 0.3	2022-02-21
11122709	114F	2022-02-14 @ 9:00 am	2022-02-17 @ 8:00 am	< 0.3	2022-02-21
11122710	114F	2022-02-14 @ 9:00 am	2022-02-17 @ 8:00 am	< 0.3	2022-02-21
11122715	114H	2022-02-14 @ 9:00 am	2022-02-17 @ 8:00 am	< 0.3	2022-02-21
11122769	120	2022-02-14 @ 10:00 am	2022-02-17 @ 9:00 am	0.9 ± 0.3	2022-02-21
11122767	122	2022-02-14 @ 11:00 am	2022-02-17 @ 9:00 am	< 0.3	2022-02-21
11122768	122	2022-02-14 @ 11:00 am	2022-02-17 @ 9:00 am	< 0.3	2022-02-21
11122742	124	2022-02-14 @ 11:00 am	2022-02-17 @ 9:00 am	< 0.3	2022-02-21
11122744	125	2022-02-14 @ 11:00 am	2022-02-17 @ 9:00 am	< 0.3	2022-02-21
11122764	130	2022-02-14 @ 11:00 am	2022-02-17 @ 9:00 am	0.9 ± 0.3	2022-02-21
11122752	132	2022-02-14 @ 11:00 am	2022-02-17 @ 9:00 am	0.6 ± 0.3	2022-02-21
11122751	134	2022-02-14 @ 11:00 am	2022-02-17 @ 9:00 am	< 0.3	2022-02-21
11122753	140	2022-02-14 @ 10:00 am	2022-02-17 @ 8:00 am	< 0.3	2022-02-21
11122755	140	2022-02-14 @ 10:00 am	2022-02-17 @ 8:00 am	0.5 ± 0.3	2022-02-21
11122754	140	2022-02-14 @ 10:00 am	2022-02-17 @ 8:00 am	< 0.3	2022-02-21
11122734	140A	2022-02-14 @ 10:00 am	2022-02-17 @ 8:00 am	0.8 ± 0.3	2022-02-21

Radon test result report for:**ROCKY HILL MS****1**

Kit #	Room Id	Started	Ended	pCi/L	Analyzed
11122763	142	2022-02-14 @ 10:00 am	2022-02-17 @ 8:00 am	0.6 ± 0.3	2022-02-21
11122762	143	2022-02-14 @ 10:00 am	2022-02-17 @ 8:00 am	< 0.3	2022-02-21
11122741	145	2022-02-14 @ 10:00 am	2022-02-17 @ 8:00 am	< 0.3	2022-02-21
11122761	149	2022-02-14 @ 10:00 am	2022-02-17 @ 8:00 am	0.7 ± 0.3	2022-02-21
11122706	150	2022-02-14 @ 10:00 am	2022-02-17 @ 8:00 am	0.8 ± 0.3	2022-02-21
11122729	151	2022-02-14 @ 9:00 am	2022-02-17 @ 8:00 am	< 0.3	2022-02-21
11122717	152	2022-02-14 @ 10:00 am	2022-02-17 @ 8:00 am	1.0 ± 0.4	2022-02-21
11122712	152	2022-02-14 @ 10:00 am	2022-02-17 @ 8:00 am	1.1 ± 0.4	2022-02-21
11122704	152	2022-02-14 @ 10:00 am	2022-02-17 @ 8:00 am	< 0.3	2022-02-21
11122724	155	2022-02-14 @ 10:00 am	2022-02-17 @ 8:00 am	0.6 ± 0.3	2022-02-21
11122728	156	2022-02-14 @ 10:00 am	2022-02-17 @ 8:00 am	0.6 ± 0.3	2022-02-21
11122711	157	2022-02-14 @ 10:00 am	2022-02-17 @ 8:00 am	< 0.3	2022-02-21
11122727	158	2022-02-14 @ 10:00 am	2022-02-17 @ 8:00 am	0.9 ± 0.3	2022-02-21
11122703	160	2022-02-14 @ 10:00 am	2022-02-17 @ 8:00 am	1.0 ± 0.4	2022-02-21
11122726	162	2022-02-14 @ 10:00 am	2022-02-17 @ 8:00 am	0.8 ± 0.3	2022-02-21
11122725	164	2022-02-14 @ 10:00 am	2022-02-17 @ 8:00 am	< 0.3	2022-02-21
11122738	166	2022-02-14 @ 10:00 am	2022-02-17 @ 8:00 am	< 0.3	2022-02-21
11122702	166	2022-02-14 @ 10:00 am	2022-02-17 @ 8:00 am	< 0.3	2022-02-21
11122701	167	2022-02-14 @ 10:00 am	2022-02-17 @ 8:00 am	< 0.3	2022-02-21
11122718	168	2022-02-14 @ 10:00 am	2022-02-17 @ 8:00 am	< 0.3	2022-02-21
11122746	169	2022-02-14 @ 10:00 am	2022-02-17 @ 8:00 am	< 0.3	2022-02-21
11122740	173	2022-02-14 @ 10:00 am	2022-02-17 @ 8:00 am	< 0.3	2022-02-21
11122739	176	2022-02-14 @ 10:00 am	2022-02-17 @ 8:00 am	0.6 ± 0.3	2022-02-21
11122745	178	2022-02-14 @ 10:00 am	2022-02-17 @ 8:00 am	< 0.3	2022-02-21
11122737	180	2022-02-14 @ 10:00 am	2022-02-17 @ 8:00 am	< 0.3	2022-02-21
11122760	251	2022-02-14 @ 11:00 am	2022-02-17 @ 8:00 am	< 0.3	2022-02-21
11122758	251	2022-02-14 @ 11:00 am	2022-02-17 @ 8:00 am	0.7 ± 0.3	2022-02-21
11122759	259	2022-02-14 @ 11:00 am	2022-02-17 @ 8:00 am	0.7 ± 0.3	2022-02-21
11122765	376	2022-02-14 @ 11:00 am	2022-02-17 @ 8:00 am	< 0.3	2022-02-21
11122733	CAFETERIA	2022-02-14 @ 11:00 am	2022-02-17 @ 9:00 am	< 0.3	2022-02-21
11122757	CAFETERIA	2022-02-14 @ 11:00 am	2022-02-17 @ 9:00 am	< 0.3	2022-02-21
11122772	MAIN GYM	2022-02-14 @ 11:00 am	2022-02-17 @ 9:00 am	0.7 ± 0.3	2022-02-21
11122771	MAIN GYM	2022-02-14 @ 11:00 am	2022-02-17 @ 9:00 am	< 0.3	2022-02-21
11122736	MAIN GYM	2022-02-14 @ 11:00 am	2022-02-17 @ 9:00 am	< 0.3	2022-02-21
11122750	MAIN GYM	2022-02-14 @ 11:00 am	2022-02-17 @ 9:00 am	< 0.3	2022-02-21
11122743	MAIN GYM	2022-02-14 @ 11:00 am	2022-02-17 @ 9:00 am	< 0.3	2022-02-21
11122749	MAIN GYM	2022-02-14 @ 11:00 am	2022-02-17 @ 9:00 am	< 0.3	2022-02-21

February 21, 2022

**** LABORATORY ANALYSIS REPORT ****

Radon test result report for:

ROCKY HILL MS

1

Kit #	Room Id	Started	Ended	pCi/L	Analyzed
11122714	MAIN OFFICE	2022-02-14 @ 9:00 am	2022-02-17 @ 8:00 am	< 0.3	2022-02-21
11122777	STAGE	2022-02-14 @ 11:00 am	2022-02-17 @ 9:00 am	< 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 - Device No.'s: _____

11113484, 1112998, 20107126 _____

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 μ R/h Elevation = 820 ft

March 14, 2022

**** LABORATORY ANALYSIS REPORT ****

Pg 1 of 1

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

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






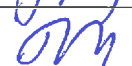
ENGINEERS • PLANNERS • SCIENTISTS • CONSTRUCTION MANAGERS
Corporate Office: 936 Ridgebrook road • Sparks, Maryland 21152 • 410-316-7800 • (Fax) 410-316-7935

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 SCREENING SURVEY – FOLLOW-UP ROCKY HILL MIDDLE SCHOOL

22401 Brick Haven Way, Clarksburg, Maryland 20871

EXECUTIVE SUMMARY

Date of Test Report:	3/29/16
Round of Testing:	Initial Follow-up Post Remediation
# Rooms Tested	2
# Rooms \geq 4.0 pCi/L:	0
Low Value:	<0.4
High Value:	0.5
Confirmed Rooms \geq 4.0 pCi/L US EPA Action Level	0

Summary of Sampling Events \geq 4.0 pCi/L

Room	Result (pCi/L) 2/8/16 Initial	Result (pCi/L) 3/29/16 Follow-Up	Average Result (pCi/L)
107	<0.3 Tampered	<0.4	<0.4
107	<0.3 Tampered	0.5	0.4
124	<0.3 Open Door	<0.4	<0.4



MCPS RADON TESTING

Executive Summary: Rocky Hill Middle School

Date of Test Report:	3/29/2016
Round of Testing:	Initial Follow-up Post Remediation
# Rooms Tested:	2
# Rooms \geq 4.0 pCi/L:	0
Low Value:	< 0.4
High Value:	0.5

Project Status:

Retesting completed; no further action at this time.



ENGINEERS • PLANNERS • SCIENTISTS • CONSTRUCTION MANAGERS

936 RIDGEBROOK ROAD • SPARKS, MD 21152 • 410-316-7800 • (FAX) 410-316-7935

March 29, 2016

Mr. Richard Cox
Indoor Air Quality Team Leader
Montgomery County Public Schools
850 Hungerford Drive
Rockville, MD 20850

Re: **Radon Testing Services**
KCI Job # 12146341.31

Location: Rocky Hill Middle School
22401 Brick Haven Way
Clarksburg, MD 20871

Dear Mr. Cox:

KCI Technologies, Inc. (KCI) is pleased to submit the following report to the Montgomery County Public Schools (MCPS) pursuant to completing a “short-term” 3 day radon test for the Rocky Hill Middle School, located at 22401 Brick Haven Way in Clarksburg, Maryland 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 Safety Board (NRSB) Radon Measurement Specialist (certification #14SS056) supervised the testing. Additional information on radon management and the health effects of radon exposure is available from www.montgomerycountymd.gov/dep/air/radon or www.epa.gov/radon.

KCI visited the site on March 8, 2016 and deployed three (3) activated charcoal (AC) radon test kits. KCI deployed radon test kits in 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 included duplicate samples, field blanks, lab transit blanks, and office blanks in accordance with AARST recommendations. In addition, KCI submitted six (6) 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 11, 2016 to retrieve the radon sampling test kits. KCI shipped all radon tests via overnight delivery to AccuStar Labs for analysis by gamma-ray spectroscopy. Accustar Labs is a NRSB certified analytical laboratory for radon analysis (certification # ARL0007) located at 929 Mount

Zion Road, Lebanon, Pennsylvania.

Evaluation of Testing Conditions:

The operating condition that represents the greatest amount of significantly occupied time for this building is; heating active, with outdoor temperature averages $\leq 65^{\circ}\text{F}$.

KCI concludes that the test period reasonably represents normal conditions when the building is significantly occupied. Clear characterization of the radon hazard is most likely to be observed under this normal operating condition. Based on the evaluation of test conditions, this test should reasonably characterize radon hazards.

KCI also conducted observations of field conditions which could affect the results of the test and compiled weather data for the testing period. KCI recorded observations of the following conditions in each room at 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.

Results:

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	

Notes:

D- Duplicate sample

The office blank and lab transit blanks had test results of less than the laboratory detection limit of 0.4 pCi/L. Review of the duplicate sample analysis indicates that adequate laboratory measurement precision was achieved. The Spike sample analysis results indicate the laboratory is operating within statistical control limits.

The sampling locations, field observations, and analytical results are listed on Table 1 (Attachment B). The laboratory analytical results are also attached (Attachment C). Laboratory results and exposure data for the spike samples are also included in Attachment C.

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) 316-7800.

Sincerely,



James M. Moulds
Radon Measurement Specialist
KCI Technologies, Inc.

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

ATTACHMENT A

Floor Plan With Test Locations

ATTACHMENT B

Radon Test Summary Spreadsheet

Table Notes:

AC- Activated Charcoal

ACI- Air Chek, Inc.

D- Duplicate

FB- Field Blank

KCI- KCI Technologies, Inc.

OB- Office Blank*

PM- Project Manager

QC- Quality Control

*Office blanks were submitted at a rate of 1% for all samples deployed in Phase 11 testing. Office blanks were not submitted under each school individually.

Radon Testing Results		
Rocky Hill MS		
Test Period: 03/07/16-03/10/16		
Kit Number	Room / Area	Result
3028915	* 107 (Tampered)	<0.4
3028943	* 107 (Tampered)	0.5
3028708	* 124 (Tampered)	<0.4

Table Note:

* Missing or Compromised Sample

ATTACHMENT C

Laboratory Analytical Results

NRPP 10511AL
NRSB ARL0007

EPA Method #402-R-92-004
Charcoal Canister
NRPP Device Code 6048
NRSB Device Code 10317

Laboratory Report for:

Property Tested: Project # 12146341

KCI Technologies
936 Ridgebrook Rd
Sparks MD 21152

Rocky Hill MS
22401 Brickhaven Way
Clarksburg MD 20871


Log Number	Device Number	Test Exposure Duration:		Area Tested	Result (pCi/L)
3016772	3028943	03/07/2016 4:45 pm	03/10/2016 2:17 pm	Unit 107 Gym	0.5
3016773	3028915	03/07/2016 4:45 pm	03/10/2016 2:18 pm	Unit 107 Gym	<0.4
3016774	3028708	03/07/2016 4:49 pm	03/10/2016 2:19 pm	Unit 124 Aux Gym	<0.4

Comment: A copy of this report was emailed to tehsin@kci.com.

Distributed by: KCI Technologies, Inc.

Date Received: 03/15/2016 Date Logged: 03/15/2016 Date Analyzed: 03/16/2016 Date Reported: 03/16/2016

Report Reviewed By: 

Report Approved By: 

Carolyn D. Koke, President, AccuStar Labs

Disclaimer:

The uncertainty of this radon measurement is $\pm 10\%$. Factors contributing to uncertainty include statistical variations, daily and seasonal variations in radon concentrations, sample collection techniques and operation of the dwelling. Interference with test conditions may influence the test results.

This report may only be transferred to a third party in its entirety. Analytical results relate to the samples AS RECEIVED BY THE LABORATORY. Results shown on this report represent levels of radon gas measured between the dates shown in the room or area of the site identified above as "Property Tested". Incorrect information will affect results. The results may not be construed as either predictive or supportive of measurements conducted in any area of this structure at any other time. AccuStar Labs, its employees and agents are not responsible for the consequences of any action taken or not taken based upon the results reported or any verbal or written interpretation of the results.

Radon Device Type Open Face Canister

Send Written Report To:

Name KCI Technologies, Inc
Address 936 Ridgebrook Road
Address
City / Town Sparks
State/Province Postal Code MD 21152
Report Country Baltimore County
Email Address tehsin@kci.com

Site Tested:

Site Name Rocky Hill MS
Address 22401 BRICK HAVEN WAY
Address
City / Town CLARKSBURG
State/Province Postal Code MD 20871
Test Country Montgomery County
Project Number 12146341

Contact Information:

Contact Tehsin Aurangabadwala
Telephone 410-891-1726
Technician
Cert. Number
Signature

Lab Use Only	Device Number	Building Number	Unit Number	Floor	Name of Room	Start Date mm/dd/yyyy	Start Time hh:mm am / pm	Stop Date mm/dd/yyyy	Stop Time hh:mm am / pm	Lab Use Only
	3028943		107		GYM 7002	03/07/2016	4:45 PM	03/10/2016	4:17	
	3028915		107		GYM 7002	03/07/2016	4:45 PM	03/10/2016	4:18	
	3028708		121		AOX. GYM 7002	03/07/2016	4:49 PM	03/10/2016	4:19	
						03/07/2016		03/10/2016		
						03/07/2016		03/10/2016		
						03/07/2016		03/10/2016		
						03/07/2016		03/10/2016		
						03/07/2016		03/10/2016		
						03/07/2016		03/10/2016		
						03/07/2016		03/10/2016		
						03/07/2016		03/10/2016		

NRPP 10511AL
NRSB ARL0007

EPA Method #402-R-92-004
Charcoal Canister
NRPP Device Code 6048
NRSB Device Code 10317

Laboratory Report for:

Property Tested: Project # 12146341

KCI Technologies
936 Ridgebrook Rd
Sparks MD 21152

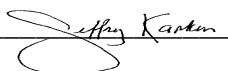
MCPS Radon Phase 11 Office Blank

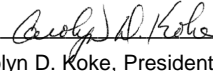
Log Number	Device Number	Test Exposure Duration:	Area Tested	Result (pCi/L)
3016739	3029191	03/08/2016 10:00 am 03/11/2016 10:00 am	Office Blank	<0.4

Comment: A copy of this report was emailed to tehsin@kci.com.

Distributed by: KCI Technologies, Inc.

Date Received: 03/15/2016 Date Logged: 03/15/2016 Date Analyzed: 03/15/2016 Date Reported: 03/16/2016

Report Reviewed By: 

Report Approved By: 
Carolyn D. Koke, President, AccuStar Labs

Disclaimer:

The uncertainty of this radon measurement is $\pm 10\%$. Factors contributing to uncertainty include statistical variations, daily and seasonal variations in radon concentrations, sample collection techniques and operation of the dwelling. Interference with test conditions may influence the test results.

This report may only be transferred to a third party in its entirety. Analytical results relate to the samples AS RECEIVED BY THE LABORATORY. Results shown on this report represent levels of radon gas measured between the dates shown in the room or area of the site identified above as "Property Tested". Incorrect information will affect results. The results may not be construed as either predictive or supportive of measurements conducted in any area of this structure at any other time. AccuStar Labs, its employees and agents are not responsible for the consequences of any action taken or not taken based upon the results reported or any verbal or written interpretation of the results.

Contact Information:

Contact	Tehsin Aurangabadwala
Telephone	410-891-1726
Technician	
Cert. Number	
Signature	<i>Tehsin Aurangabadwala</i>

[illegible]

NRPP 10511AL
NRSB ARL0007

EPA Method #402-R-92-004
Charcoal Canister
NRPP Device Code 6048
NRSB Device Code 10317

Laboratory Report for:

Property Tested:

KCI Technologies
936 Ridgebrook Rd
Sparks MD 21152

MCPS
Transit Blanks

Log Number	Device Number	Test Exposure Duration:		Area Tested	Result (pCi/L)
3010588	3028953	01/19/2016 1:00 pm	01/22/2016 9:30 am	1	< 0.4
3010589	3028955	01/19/2016 1:00 pm	01/22/2016 9:30 am	2	< 0.4
3010590	3028954	01/19/2016 1:00 pm	01/22/2016 9:30 am	3	< 0.4
3010591	3028997	01/19/2016 1:00 pm	01/22/2016 9:30 am	4	< 0.4

Comment: AMENDED REPORT for 3028953-8955, 3028997 on 2/22/16 to add all missing information from the blank datasheet. A copy of this report was emailed to james.moulds@kci.com.

Distributed by: KCI Technologies, Inc.

Date Received: 01/27/2016 Date Logged: 01/27/2016 Date Analyzed: 01/28/2016 Date Reported: 01/28/2016

Report Reviewed By: Christie Bates

Report Approved By: Carolyn D. Koke

Disclaimer:

Carolyn D. Koke, President, AccuStar Labs

The uncertainty of this radon measurement is +/- 10 %. Factors contributing to uncertainty include statistical variations, daily and seasonal variations in radon concentrations, sample collection techniques and operation of the dwelling. Interference with test conditions may influence the test results.

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Return canisters for analysis to:
AccuStar Labs
929 Mt. Zion Rd., Lebanon, PA 17046
800-523-4964

AccuStar Labs - Lebanon, PA
INFORMATION FORM - Large Buildings -
Projects - Apartments

Instructions on back of form
Read instructions carefully
Discrepancies will invalidate tests

Test Site Info

Name of Building/Project or Owner: Transit
Site Address: Transit
City: _____ State: _____ Zip: _____ County: _____

Projects Contact Name: Don Coale Phone: _____ Email: _____

Do not use this form in
New Jersey or Florida
Call for correct forms.

Multi-Page Report Y-N

LAB USE ONLY			
Detector Serial#	ROOM NAME & NUMBER - LOCATION OF DETECTOR IN ROOM (indicate duplicates and blanks)	Floor	Wgt. Gain
3028953	Transit	1	204
8955	Transit	1	204
8954	Transit	1	204
8997	Transit	1	204

Start Time Include AM/PM	Stop Time Include AM/PM	Start Date	Stop Date
9:30am	9:30am	1/19/16	1/22/16
		1/19/16	
		1/19/16	
		1/19/16	

1/27/2016

KCI Technologies, Inc.

3010588 3028953 ACPC275B EXP12/31/2018

Both Placed by and Retrieved by signatures are required

Canisters placed by

Canisters retrieved by

Owner waives confidentiality by signing here

Attention: James Mouldale

Date 1/22/16

State: MD Zip: 21252

Fax:

EMAIL Results to: James.Mouldale@kci.com

Send Results To:

Company Name: Kci Tech

Address: 936 Ridgebrook

City: Sparks

Phone: 410-599-3826

Make sure information is complete and correct.

If a recalculation is requested there is a \$10.00 recalc fee PER Canister.

Mailing: PO Box 990 Jonestown, PA 17038
Shipping: 929 Mt Zion Road, Lebanon, PA 17046
800-523-4964 fax 717-274-5662

NEHA 10511AL NRSB ARL 0007

Revision 5
4/2015

TCS INDUSTRIES, INC.

(717) 657-7032

RADON GAS DETECTION

www.radondetek.com

4326 Crestview Road, Harrisburg, PA 17112

James Mouldsdale
KCI
936 Ridgebrook Rd.
Sparks, MD 21152

April 04, 2016

Dear Mr. Mouldsdale:

The spike exposure data were:

Start 04/04/16 @ 1110 hrs EDT
End 04/06/16 @ 1113 hrs EDT

AC 3029218, 3029219, 3029220, 3029217, 3029214, 3029217, and 3029166

Average radon concentration was 10.6 pCi/L +/- 5%

Avg. Temp. was 71F
Avg. RH was 51%
Elevation was 490 feet above sea level

Sincerely,



Carl H. Distenfeld, CHP

TCS Radon Chamber NRSB CHM 0002

NRPP 10511AL
NRSB ARL0007

EPA Method #402-R-92-004
Charcoal Canister
NRPP Device Code 6048
NRSB Device Code 10317

Laboratory Report for:

Property Tested:

KCI Technologies
936 Ridgebrook Rd
Sparks MD 21152

MCPS
Radon Spike Sample Laboratory Results

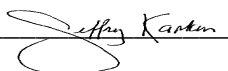
Log Number	Device Number	Test Exposure Duration:		Area Tested	Result (pCi/L)
3020102	3029166	04/04/2016 11:10 am	04/06/2016 11:13 am	Not Indicated	11.9
3020103	3029214	04/04/2016 11:10 am	04/06/2016 11:13 am	Not Indicated	11.5
3020104	3029217	04/04/2016 11:10 am	04/06/2016 11:13 am	Not Indicated	10.7
3020105	3029218	04/04/2016 11:10 am	04/06/2016 11:13 am	Not Indicated	11.3
3020106	3029219	04/04/2016 11:10 am	04/06/2016 11:13 am	Not Indicated	11.0
3020107	3029220	04/04/2016 11:10 am	04/06/2016 11:13 am	Not Indicated	10.5

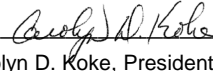
Comment: A copy of this report was emailed to james.mouldsdale@kci.com.

Distributed by: KCI Technologies, Inc.

Date Received: 04/07/2016 Date Logged: 04/07/2016 Date Analyzed: 04/07/2016 Date Reported: 04/08/2016

Note: Spike samples are test canisters that are deliberately exposed to a controlled high level of radon in a laboratory. They provide a quality control measure in the testing process and do NOT reflect radon levels in the building being tested.

Report Reviewed By: 

Report Approved By: 
Carolyn D. Koke, President, AccuStar Labs

Disclaimer:

The uncertainty of this radon measurement is $\pm 10\%$. Factors contributing to uncertainty include statistical variations, daily and seasonal variations in radon concentrations, sample collection techniques and operation of the dwelling. Interference with test conditions may influence the test results.

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Radon Device Type Open Face Canister


Send Written Report To:

Name	KCI Technologies, Inc
Address	936 Ridgebrook Road
Address	
City / Town	Sparks
State/Province Postal Code	MD 21152
Report Country	Baltimore County
Email Address	tehsin@kci.com

Site Tested:

Site Name	MCPS
Address	850 Hungerford Dr
Address	
City / Town	Rockville
State/Province Postal Code	MD 20850
Test Country	Montgomery County
Project Number	12146341

Contact Information:

Contact	Tehsin Aurangabadwala
Telephone	410-891-1726
Technician	
Cert. Number	
Signature	

Lab Use Only	Device Number	Building Number	Unit Number	Floor	Name of Room	Temp	Start Date mm/dd/yyyy	Start Time hh:mm am / pm	Stop Date mm/dd/yyyy	Stop Time hh:mm am / pm	Lab Use Only
	3029166	1		1	1		4/4/16	11:10am	4/6/16	11:15am	
	3029214	1		1	2						
	3029217	1		1	3						
	3029218	1		1	4						
	3029219	1		1	5						
	3029220	1		1	6						



MCPS RADON TESTING

Executive Summary: Rocky Hill Middle School

Date of Test Report:	2/08/2016
Round of Testing:	Initial Follow-up Post Remediation
# Rooms Tested:	76
# Rooms \geq 4.0 pCi/L:	0
Low Value:	< 0.3
High Value:	1.6

Project Status:

Initial testing completed; compromised samples need re-test.



ENGINEERS • PLANNERS • SCIENTISTS • CONSTRUCTION MANAGERS

936 RIDGEBROOK ROAD • SPARKS, MD 21152 • 410-316-7800 • (FAX) 410-316-7935

February 8, 2016

Mr. Richard Cox
Indoor Air Quality Team Leader
Montgomery County Public Schools
850 Hungerford Drive
Rockville, MD 20850

Re: **Radon Testing Services**
KCI Job # 12146341.24

Location: Rocky Hill Middle School
22401 Brick Haven Way
Clarksburg, MD 20871

Dear Mr. Cox:

KCI Technologies, Inc. (KCI) is pleased to submit the following report to the Montgomery County Public Schools (MCPS) pursuant to completing a “short-term” 3 day radon test for the Rocky Hill Middle School, located at 22401 Brick Haven Way in Clarksburg, Maryland 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 Safety Board (NRSB) Radon Measurement Specialist (certification #14SS056) supervised the testing. Additional information on radon management and the health effects of radon exposure is available from www.montgomerycountymd.gov/dep/air/radon or www.epa.gov/radon.

KCI visited the site on January 11, 2016 and deployed ninety-one (91) activated charcoal (AC) radon test kits. KCI deployed radon test kits in 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 included duplicate samples, field blanks, lab transit blanks, and office blanks in accordance with AARST recommendations. In addition, KCI submitted six (6) 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 January 14, 2016 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:

The operating condition that represents the greatest amount of significantly occupied time for this building is; heating active, with outdoor temperature averages $\leq 65^{\circ}\text{F}$.

KCI concludes that the test period reasonably represents normal conditions when the building is significantly occupied. Clear characterization of the radon hazard is most likely to be observed under this normal operating condition. Based on the evaluation of test conditions, this test should reasonably characterize radon hazards.

KCI also conducted observations of field conditions which could affect the results of the test and compiled weather data for the testing period. KCI recorded observations of the following conditions in each room at 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.

Results:

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	

Notes:

D- Duplicate sample

All field blanks, office blank, and lab transit blanks had test results of less than the laboratory detection limit of 0.3 pCi/L. Review of the duplicate sample analysis indicates that adequate laboratory measurement precision was achieved. The Spike sample analysis results indicate the laboratory is operating within statistical control limits.

The sampling locations, field observations, and analytical results are listed on Table 1 (Attachment B). The laboratory analytical results are also attached (Attachment C). Laboratory results and exposure data for the spike samples are also included in Attachment C.

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) 316-7800.

Sincerely,



H. Allen Bennett
Certified Industrial Hygienist
KCI Technologies, Inc.

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

ATTACHMENT A

Floor Plan With Test Locations

ATTACHMENT B

Radon Test Summary Spreadsheet

Radon Testing Results		
Rocky Hill Middle School		
Test Period: 01/11/16-01/14/16		
Kit Number	Room / Area	Result
7717464	101	0.9
7717463	101	< 0.3
7717457	102	< 0.3
7717470	103	0.9
7717473	105	1
7717440	106	< 0.3
7717486	109	0.7
7717416	114	< 0.3
7717485	120	< 0.3
7717484	122	0.6
7717481	125	< 0.3
7717482	130	< 0.3
7717479	132	< 0.3
7717480	134	< 0.3
7717442	140	< 0.3
7717446	142	< 0.3
7717441	143	1
7717444	145	< 0.3
7717448	149	< 0.3
7717422	150	< 0.3
7717419	151	0.6
7717423	152	< 0.3
7717421	155	0.6
7717425	156	< 0.3
7717424	157	0.5
7717426	158	1.3
7717427	160	1.6
7717428	162	1.6
7717429	164	1.1
7717430	166	0.6
7717433	167	< 0.3
7717431	168	< 0.3
7717436	169	< 0.3
7717438	171	< 0.3
7717439	173	< 0.3
7717432	176	< 0.3
7717434	178	< 0.3
7717435	180	< 0.3
7717488	203	1
7717487	208	0.9
7717489	348	< 0.3
7717490	380	0.6
7717405	100A	< 0.3
7717406	100AB	< 0.3
7717407	100C	< 0.3
7717462	100D	< 0.3

Table Note:

* Missing or Compromised Sample

Radon Testing Results		
Rocky Hill Middle School		
Test Period: 01/11/16-01/14/16		
Kit Number	Room / Area	Result
7717408	100F	< 0.3
7717409	100G	< 0.3
7717404	100H	1.4
7717465	101D	1.3
7717466	101F	< 0.3
7717468	101L	< 0.3
7717460	102A	0.8
7717461	102E	< 0.3
7717471	103A	1.6
7717478	* 107 (Tampered)	< 0.3
7717477	* 107 (Tampered)	< 0.3
7717414	114A	< 0.3
7717415	114B	< 0.3
7717413	114D	0.9
7717412	114E	< 0.3
7717411	114F	< 0.3
7717410	114H	< 0.3
7717483	* 124 (Open Door)	< 0.3
7717443	140A	0.6
7717447	142A	< 0.3
7717445	143A	< 0.3
7717401	MAIN OFFICE	< 0.3
7717475	* ML1013 (Tampered)	< 0.3
7717476	ML1014	< 0.3
7717451	ML-665	< 0.3
7717452	ML-667	< 0.3
7717454	ML-730	< 0.3
7717455	ML-815	< 0.3
7717449	ML913	< 0.3
7717450	ML932	< 0.3
7717453	MO-134	< 0.3
7717456	MO-143	< 0.3

Table Note:

* Missing or Compromised Sample

Radon Testing Results		
Rocky Hill Middle School		
Test Period: 01/11/16-01/14/16		
Kit Number	QC Type	Result
7717467	D (101F)	< 0.3
7717469	D (101L)	< 0.3
7717458	D (102)	< 0.3
7717472	D (103A)	1.3
7717474	D (105)	1.3
7717417	D (114)	< 0.3
7717420	D (151)	0.5
7717437	D (169)	< 0.3
7717402	D (MAIN OFFICE)	< 0.3
7717459	FB (102)	< 0.3
7717418	FB (114)	< 0.3
7717403	FB (MAIN OFFICE)	< 0.3
7716770	OB (0)	< 0.3

Table Note:

* Missing or Compromised Sample

Table Notes:

AC- Activated Charcoal

ACI- Air Chek, Inc.

D- Duplicate

FB- Field Blank

KCI- KCI Technologies, Inc.

OB- Office Blank

PM- Project Manager

QC- Quality Control

ATTACHMENT C

Laboratory Analytical Results

February 1, 2016
****LABORATORY ANALYSIS
REPORT****

Radon test result report for:

**ROCKY HILL MIDDLE SCHOOL
MAIN**

Kit #	Room Id	Started	Ended	pCi/L	Analyzed
7716770	0	2016-01-11 @ 5:00 pm	2016-01-14 @ 1:00 pm	< 0.3	2016-01-19
7717405	100A	2016-01-11 @ 1:00 pm	2016-01-14 @ 11:00 am	< 0.3	2016-01-18
7717406	100AB	2016-01-11 @ 1:00 pm	2016-01-14 @ 11:00 am	< 0.3	2016-01-19
7717407	100C	2016-01-11 @ 1:00 pm	2016-01-14 @ 11:00 am	< 0.3	2016-01-19
7717462	100D	2016-01-11 @ 2:00 pm	2016-01-14 @ 11:00 am	< 0.3	2016-01-19
7717408	100F	2016-01-11 @ 1:00 pm	2016-01-14 @ 11:00 am	< 0.3	2016-01-19
7717409	100G	2016-01-11 @ 1:00 pm	2016-01-14 @ 11:00 am	< 0.3	2016-01-19
7717404	100H	2016-01-11 @ 1:00 pm	2016-01-14 @ 11:00 am	1.4 ± 0.3	2016-01-18
7717463	101	2016-01-11 @ 2:00 pm	2016-01-14 @ 11:00 am	< 0.3	2016-01-18
7717464	101	2016-01-11 @ 2:00 pm	2016-01-14 @ 11:00 am	0.9 ± 0.3	2016-01-19
7717465	101D	2016-01-11 @ 2:00 pm	2016-01-14 @ 11:00 am	1.3 ± 0.4	2016-01-19
7717466	101F	2016-01-11 @ 2:00 pm	2016-01-14 @ 11:00 am	< 0.3	2016-01-19
7717467	101F	2016-01-11 @ 2:00 pm	2016-01-14 @ 11:00 am	< 0.3	2016-01-19
7717468	101L	2016-01-11 @ 2:00 pm	2016-01-14 @ 11:00 am	< 0.3	2016-01-19
7717469	101L	2016-01-11 @ 2:00 pm	2016-01-14 @ 11:00 am	< 0.3	2016-01-19
7717457	102	2016-01-11 @ 2:00 pm	2016-01-14 @ 11:00 am	< 0.3	2016-01-19
7717458	102	2016-01-11 @ 2:00 pm	2016-01-14 @ 11:00 am	< 0.3	2016-01-19
7717459	102	2016-01-11 @ 2:00 pm	2016-01-14 @ 11:00 am	< 0.3	2016-01-19
7717460	102A	2016-01-11 @ 2:00 pm	2016-01-14 @ 11:00 am	0.8 ± 0.4	2016-01-19
7717461	102E	2016-01-11 @ 2:00 pm	2016-01-14 @ 11:00 am	< 0.3	2016-01-19
7717470	103	2016-01-11 @ 2:00 pm	2016-01-14 @ 11:00 am	0.9 ± 0.4	2016-01-19
7717471	103A	2016-01-11 @ 2:00 pm	2016-01-14 @ 11:00 am	1.6 ± 0.4	2016-01-19
7717472	103A	2016-01-11 @ 2:00 pm	2016-01-14 @ 11:00 am	1.3 ± 0.4	2016-01-19
7717473	105	2016-01-11 @ 2:00 pm	2016-01-14 @ 11:00 am	1.0 ± 0.4	2016-01-19
7717474	105	2016-01-11 @ 2:00 pm	2016-01-14 @ 11:00 am	1.3 ± 0.4	2016-01-19
7717440	106	2016-01-11 @ 1:00 pm	2016-01-14 @ 11:00 am	< 0.3	2016-01-19
7717477	107	2016-01-11 @ 2:00 pm	2016-01-14 @ 11:00 am	< 0.3	2016-01-19
7717478	107	2016-01-11 @ 2:00 pm	2016-01-14 @ 11:00 am	< 0.3	2016-01-19
7717486	109	2016-01-11 @ 3:00 pm	2016-01-14 @ 11:00 am	0.7 ± 0.4	2016-01-19
7717416	114	2016-01-11 @ 1:00 pm	2016-01-14 @ 11:00 am	< 0.3	2016-01-19
7717417	114	2016-01-11 @ 1:00 pm	2016-01-14 @ 11:00 am	< 0.3	2016-01-19
7717418	114	2016-01-11 @ 1:00 pm	2016-01-14 @ 11:00 am	< 0.3	2016-01-19
7717414	114A	2016-01-11 @ 1:00 pm	2016-01-14 @ 11:00 am	< 0.3	2016-01-18
7717415	114B	2016-01-11 @ 1:00 pm	2016-01-14 @ 11:00 am	< 0.3	2016-01-19
7717413	114D	2016-01-11 @ 1:00 pm	2016-01-14 @ 11:00 am	0.9 ± 0.4	2016-01-19
7717412	114E	2016-01-11 @ 1:00 pm	2016-01-14 @ 11:00 am	< 0.3	2016-01-19
7717411	114F	2016-01-11 @ 1:00 pm	2016-01-14 @ 11:00 am	< 0.3	2016-01-19

February 1, 2016
****LABORATORY ANALYSIS
REPORT****

Radon test result report for:
**ROCKY HILL MIDDLE SCHOOL
MAIN**

Kit #	Room Id	Started	Ended	pCi/L	Analyzed
7717410	114H	2016-01-11 @ 1:00 pm	2016-01-14 @ 11:00 am	< 0.3	2016-01-19
7717485	120	2016-01-11 @ 2:00 pm	2016-01-14 @ 11:00 am	< 0.3	2016-01-19
7717484	122	2016-01-11 @ 2:00 pm	2016-01-14 @ 11:00 am	0.6 ± 0.3	2016-01-19
7717483	124	2016-01-11 @ 2:00 pm	2016-01-14 @ 11:00 am	< 0.3	2016-01-19
7717481	125	2016-01-11 @ 2:00 pm	2016-01-14 @ 11:00 am	< 0.3	2016-01-19
7717482	130	2016-01-11 @ 2:00 pm	2016-01-14 @ 11:00 am	< 0.3	2016-01-19
7717479	132	2016-01-11 @ 2:00 pm	2016-01-14 @ 11:00 am	< 0.3	2016-01-19
7717480	134	2016-01-11 @ 2:00 pm	2016-01-14 @ 11:00 am	< 0.3	2016-01-19
7717442	140	2016-01-11 @ 1:00 pm	2016-01-14 @ 11:00 am	< 0.3	2016-01-18
7717443	140A	2016-01-11 @ 1:00 pm	2016-01-14 @ 11:00 am	0.6 ± 0.3	2016-01-19
7717446	142	2016-01-11 @ 1:00 pm	2016-01-14 @ 11:00 am	< 0.3	2016-01-18
7717447	142A	2016-01-11 @ 1:00 pm	2016-01-14 @ 11:00 am	< 0.3	2016-01-18
7717441	143	2016-01-11 @ 1:00 pm	2016-01-14 @ 11:00 am	1.0 ± 0.4	2016-01-19
7717445	143A	2016-01-11 @ 1:00 pm	2016-01-14 @ 11:00 am	< 0.3	2016-01-19
7717444	145	2016-01-11 @ 1:00 pm	2016-01-14 @ 11:00 am	< 0.3	2016-01-19
7717448	149	2016-01-11 @ 1:00 pm	2016-01-14 @ 11:00 am	< 0.3	2016-01-19
7717422	150	2016-01-11 @ 1:00 pm	2016-01-14 @ 11:00 am	< 0.3	2016-01-18
7717419	151	2016-01-11 @ 1:00 pm	2016-01-14 @ 11:00 am	0.6 ± 0.3	2016-01-19
7717420	151	2016-01-11 @ 1:00 pm	2016-01-14 @ 11:00 am	0.5 ± 0.3	2016-01-19
7717423	152	2016-01-11 @ 1:00 pm	2016-01-14 @ 11:00 am	< 0.3	2016-01-19
7717421	155	2016-01-11 @ 1:00 pm	2016-01-14 @ 11:00 am	0.6 ± 0.3	2016-01-18
7717425	156	2016-01-11 @ 1:00 pm	2016-01-14 @ 11:00 am	< 0.3	2016-01-19
7717424	157	2016-01-11 @ 1:00 pm	2016-01-14 @ 11:00 am	0.5 ± 0.3	2016-01-19
7717426	158	2016-01-11 @ 1:00 pm	2016-01-14 @ 11:00 am	1.3 ± 0.4	2016-01-19
7717427	160	2016-01-11 @ 1:00 pm	2016-01-14 @ 11:00 am	1.6 ± 0.4	2016-01-19
7717428	162	2016-01-11 @ 1:00 pm	2016-01-14 @ 11:00 am	1.6 ± 0.4	2016-01-19
7717429	164	2016-01-11 @ 1:00 pm	2016-01-14 @ 11:00 am	1.1 ± 0.4	2016-01-19
7717430	166	2016-01-11 @ 1:00 pm	2016-01-14 @ 11:00 am	0.6 ± 0.3	2016-01-19
7717433	167	2016-01-11 @ 1:00 pm	2016-01-14 @ 11:00 am	< 0.3	2016-01-18
7717431	168	2016-01-11 @ 1:00 pm	2016-01-14 @ 11:00 am	< 0.3	2016-01-19
7717436	169	2016-01-11 @ 1:00 pm	2016-01-14 @ 11:00 am	< 0.3	2016-01-19
7717437	169	2016-01-11 @ 1:00 pm	2016-01-14 @ 11:00 am	< 0.3	2016-01-19
7717438	171	2016-01-11 @ 1:00 pm	2016-01-14 @ 11:00 am	< 0.3	2016-01-19
7717439	173	2016-01-11 @ 1:00 pm	2016-01-14 @ 11:00 am	< 0.3	2016-01-19
7717432	176	2016-01-11 @ 1:00 pm	2016-01-14 @ 11:00 am	< 0.3	2016-01-19
7717434	178	2016-01-11 @ 1:00 pm	2016-01-14 @ 11:00 am	< 0.3	2016-01-19
7717435	180	2016-01-11 @ 1:00 pm	2016-01-14 @ 11:00 am	< 0.3	2016-01-19

February 1, 2016

**** LABORATORY ANALYSIS
REPORT ****

Radon test result report for:
**ROCKY HILL MIDDLE SCHOOL
MAIN**

Kit #	Room Id	Started	Ended	pCi/L	Analyzed
7717488	203	2016-01-11 @ 3:00 pm	2016-01-14 @ 11:00 am	1.0 ± 0.4	2016-01-19
7717487	208	2016-01-11 @ 3:00 pm	2016-01-14 @ 11:00 am	0.9 ± 0.4	2016-01-19
7717489	348	2016-01-11 @ 3:00 pm	2016-01-14 @ 11:00 am	< 0.3	2016-01-19
7717490	380	2016-01-11 @ 3:00 pm	2016-01-14 @ 11:00 am	0.6 ± 0.3	2016-01-19
7717401	MAIN OFFICE	2016-01-11 @ 1:00 pm	2016-01-14 @ 11:00 am	< 0.3	2016-01-18
7717402	MAIN OFFICE	2016-01-11 @ 1:00 pm	2016-01-14 @ 11:00 am	< 0.3	2016-01-19
7717403	MAIN OFFICE	2016-01-11 @ 1:00 pm	2016-01-14 @ 11:00 am	< 0.3	2016-01-19

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

Radon test result report for:
**MCPS PHASE 5 & 6
TRANSIT BLANKS**

Kit #	Room Id	Started	Ended	pCi/L	Analyzed
7722194	1	2016-01-19 @ 12:00 pm	2016-01-22 @ 12:00 pm	< 0.3	2016-01-27
7718494	10	2016-01-19 @ 12:00 pm	2016-01-22 @ 12:00 pm	< 0.3	2016-01-27
7718475	11	2016-01-19 @ 12:00 pm	2016-01-22 @ 12:00 pm	< 0.3	2016-01-27
7718495	12	2016-01-19 @ 12:00 pm	2016-01-22 @ 12:00 pm	< 0.3	2016-01-27
7718496	13	2016-01-19 @ 12:00 pm	2016-01-22 @ 12:00 pm	< 0.3	2016-01-27
7718497	14	2016-01-19 @ 12:00 pm	2016-01-22 @ 12:00 pm	< 0.3	2016-01-27
7718498	15	2016-01-19 @ 12:00 pm	2016-01-22 @ 12:00 pm	< 0.3	2016-01-27
7718499	16	2016-01-19 @ 12:00 pm	2016-01-22 @ 12:00 pm	< 0.3	2016-01-27
7718500	17	2016-01-19 @ 12:00 pm	2016-01-22 @ 12:00 pm	< 0.3	2016-01-27
7718296	18	2016-01-19 @ 12:00 pm	2016-01-22 @ 12:00 pm	< 0.3	2016-01-27
7718295	19	2016-01-19 @ 12:00 pm	2016-01-22 @ 12:00 pm	< 0.3	2016-01-27
7722195	2	2016-01-19 @ 12:00 pm	2016-01-22 @ 12:00 pm	< 0.3	2016-01-27
7716789	20	2016-01-19 @ 12:00 pm	2016-01-22 @ 12:00 pm	< 0.3	2016-01-27
7716785	21	2016-01-19 @ 12:00 pm	2016-01-22 @ 12:00 pm	< 0.3	2016-01-26
7716791	22	2016-01-19 @ 12:00 pm	2016-01-22 @ 12:00 pm	< 0.3	2016-01-27
7716786	23	2016-01-19 @ 12:00 pm	2016-01-22 @ 12:00 pm	< 0.3	2016-01-27
7716793	24	2016-01-19 @ 12:00 pm	2016-01-22 @ 12:00 pm	< 0.3	2016-01-27
7718274	25	2016-01-19 @ 12:00 pm	2016-01-22 @ 12:00 pm	< 0.3	2016-01-27
7716792	26	2016-01-19 @ 12:00 pm	2016-01-22 @ 12:00 pm	< 0.3	2016-01-27
7718294	27	2016-01-19 @ 12:00 pm	2016-01-22 @ 12:00 pm	< 0.3	2016-01-27
7718293	28	2016-01-19 @ 12:00 pm	2016-01-22 @ 12:00 pm	< 0.3	2016-01-27
7718292	29	2016-01-19 @ 12:00 pm	2016-01-22 @ 12:00 pm	< 0.3	2016-01-27
7722197	3	2016-01-19 @ 12:00 pm	2016-01-22 @ 12:00 pm	< 0.3	2016-01-27
7718290	30	2016-01-19 @ 12:00 pm	2016-01-22 @ 12:00 pm	< 0.3	2016-01-27
7722198	4	2016-01-19 @ 12:00 pm	2016-01-22 @ 12:00 pm	< 0.3	2016-01-27
7722199	5	2016-01-19 @ 12:00 pm	2016-01-22 @ 12:00 pm	< 0.3	2016-01-27
7722211	6	2016-01-19 @ 12:00 pm	2016-01-22 @ 12:00 pm	< 0.3	2016-01-27
7718491	7	2016-01-19 @ 12:00 pm	2016-01-22 @ 12:00 pm	< 0.3	2016-01-27
7718476	8	2016-01-19 @ 12:00 pm	2016-01-22 @ 12:00 pm	< 0.3	2016-01-26
7718479	9	2016-01-19 @ 12:00 pm	2016-01-22 @ 12:00 pm	< 0.3	2016-01-27

December
23,
2015

****LABORATORY ANALYSIS
REPORT ****

Spike Sample Laboratory Results

Radon test result report for:
MCPS

Kit #	Room Id	Started	Ended	pCi/L	Analyzed
7706380	101	2015-12-18 @ 9:00 am	2015-12-21 @ 9:00 am	25.2	2015-12-23
7706381	102	2015-12-18 @ 9:00 am	2015-12-21 @ 9:00 am	26.5	2015-12-23
7706208	103	2015-12-18 @ 9:00 am	2015-12-21 @ 9:00 am	27.7	2015-12-23
7705132	104	2015-12-18 @ 9:00 am	2015-12-21 @ 9:00 am	28.6	2015-12-23
7706366	105	2015-12-18 @ 9:00 am	2015-12-21 @ 9:00 am	26.5	2015-12-23
7706211	106	2015-12-18 @ 9:00 am	2015-12-21 @ 9:00 am	26.1	2015-12-23

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

Note: Spike samples are test canisters that are deliberately exposed to a controlled high level of radon in a laboratory. They provide a quality control measure in the testing process and do NOT reflect radon levels in the building being tested.

EXPOSURE IN BOWSER-MORNER RADON CHAMBER

CLIENT KCI Technologies Inc. Job Number 173224

NOMINAL Conditions: Radon Conc 26.9 pCi/L Rel. Hum 49.6 % Temp. 69.9 F

Date Start: 12/18/15 Date Stop: 12/21/15 Date Start: _____ Date Stop: _____

Time Start: 0929 Time Stop: 0929 Time Start: _____ Time Stop: _____

Device No.'s: 7705132, 7706208, Device No.'s: _____

7706211, 7706366, _____

7706380, 7706381 _____

F3 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



ENGINEERS • PLANNERS • SCIENTISTS • CONSTRUCTION MANAGERS

Corporate Office: 936 Ridgebrook road • Sparks, Maryland 21152 • 410-316-7800 • (Fax) 410-316-7935

Chain of Custody

Project Name: MCPS Radon Phase V

Name of Schools:

- | | | |
|-------------------------|---------------------------|-------------------------|
| 1. Arcola ES | 11. Clopper Mill ES | 21. Parkland Magnet MS |
| 2. Argyle ES | 12. College Gardens ES | 22. Rachel Carson ES |
| 3. Bells Mill ES | 13. Eastern MS | 23. Roberto Clemente MS |
| 4. Bethesda ES | 14. Fallsmead ES | 24. Rock Creek ES |
| 5. Brookhaven ES | 15. Fields Road ES | 25. Rockview ES |
| 6. Burning Tree ES | 16. Flower Hill ES | 26. Rockville HS |
| 7. Capt. James Daly ES | 17. Flower Valley ES | 27. Rocky Hill MS |
| 8. Carderock Springs ES | 18. Fox Chapel ES | 28. Seneca Valley HS |
| 9. Cashell ES | 19. Glen Haven ES | 29. Westover ES |
| 10. Clearspring ES | 20. James Hubert Blake HS | 30. William Farquar MS |
-

	Date	Initials
Radon Test Kits Deployed	1/11/16	JM
Radon Test Kits Sampled	1/14/16	JM
Radon Test Kits Shipped to Lab*	1/15/16	JM
Radon Test Kits Received by Lab*	1/18/16	JM

*All samples sent to Air Check, Inc., 1936 Butler Bridge Road, Mills River, NC 28758

February 1, 2016

**** LABORATORY ANALYSIS REPORT ****

Radon test result report for:
ROCKY HILL MIDDLE SCHOOL
PORTABLE

Kit #	Room Id	Started	Ended	pCi/L	Analyzed
7717451	ML-665	2016-01-11 @ 2:00 pm	2016-01-14 @ 11:00 am	< 0.3	2016-01-19
7717452	ML-667	2016-01-11 @ 2:00 pm	2016-01-14 @ 11:00 am	< 0.3	2016-01-19
7717454	ML-730	2016-01-11 @ 2:00 pm	2016-01-14 @ 11:00 am	< 0.3	2016-01-19
7717455	ML-815	2016-01-11 @ 2:00 pm	2016-01-14 @ 11:00 am	< 0.3	2016-01-18
7717475	ML1013	2016-01-11 @ 2:00 pm	2016-01-14 @ 11:00 am	< 0.3	2016-01-19
7717476	ML1014	2016-01-11 @ 2:00 pm	2016-01-14 @ 11:00 am	< 0.3	2016-01-19
7717449	ML913	2016-01-11 @ 2:00 pm	2016-01-14 @ 11:00 am	< 0.3	2016-01-19
7717450	ML932	2016-01-11 @ 2:00 pm	2016-01-14 @ 11:00 am	< 0.3	2016-01-19
7717453	MO-134	2016-01-11 @ 2:00 pm	2016-01-14 @ 11:00 am	< 0.3	2016-01-19
7717456	MO-143	2016-01-11 @ 2:00 pm	2016-01-14 @ 11:00 am	< 0.3	2016-01-19
