

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

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

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

Attachment 2 – Laboratory Report(s)

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

School Year: **23-24**

Facility:	Bayard Rustin Elementary School
Address:	51 University Boulevard East
	Silver Spring, MD 20901

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

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

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

Detector and Deployment

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

Testing

<input checked="" type="checkbox"/> Short-Term	Length of Test (days):	3	Date of Deployment and Retrieval (mm/dd/yy):	02/05/2024
<input type="checkbox"/> Long-Term				02/08/2024
Does the test period include weekends, school breaks or holidays?				<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<i>If “Yes” please explain/detail in the space below:</i>				
Was HVAC operating under occupied conditions?				<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<i>If “No” please explain/detail in the space below:</i>				

Testing (continued)

	Detectors Deployed		
	Ground-Contact	Upper-Level(s)	Total
Test Locations ¹	38	3	41
Duplicates ²	4	0	4
Field Blanks ³	2	0	2
Grand Total			47

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

2 - 10% of all locations tested, per floor

3 – 5% of all locations tested, per floor

Quality Assurance / Quality Control (QA/QC)

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

Spike Samples ¹	6	Trip Blank(s) ²	1	Office Blank(s) ^{3,4}	1
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1 - 3% of EIC detectors; and 3% from each LOT of CAD and ATD detectors; a maximum of 6-spiked measurements per month for both EIC detectors and each LOT of CAD and ATD detectors.

2 – One per shipping container from start of detector deployment

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

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

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

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

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

Summary of Test Results¹ and Determination of Valid Measurements²

	Ground-Contact	Upper-Level(s)	Total
Number of test locations:	38	3	41
Number of locations ≥ 8.0 -pCi/L:	0	0	0
Number of locations ≥ 4.0 and ≤ 8 -pCi/L:	0	0	0
Number of locations ≥ 2.7 and ≤ 4 -pCi/L:	0	0	0
Number of locations ≥ 2.0 and ≤ 4 -pCi/L:	0	0	0
Number of missing required test locations ³ :	0	0	0
Percentage of missing test locations for the facility ^{4,5} :	0	0	0

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

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

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

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

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

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

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

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

Follow-Up Testing (if required)

Required if –

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

Follow-up Testing:

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

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

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

Attachment 1:
Summary Data Tables

Table 1- Radon Testing Results		
Bayard Rustin Elementary School		
Test Period: 02/05/2024 - 02/08/2024		
Kit Number	Room / Area	Result
11287198	102	< 0.3
11469441	103	1.7
11469442	103	1.6
11469411	106	< 0.3
11469408	119	< 0.3
11469409	119	< 0.3
11469405	121	0.6
11469412	125	< 0.3
11469433	126	0.7
11469419	127	< 0.3
11469420	127	< 0.3
11469431	129	< 0.3
11469432	133	0.6
11469434	134	< 0.3
11469423	135	0.5
11469417	137	< 0.3
11469418	137	< 0.3
11469424	141	< 0.3
11469425	143	< 0.3
11469422	149	< 0.3
11469427	149	< 0.3
11469421	153	< 0.3
11469413	155	< 0.3
11469439	159	< 0.3
11469428	165	< 0.3
11469426	169	< 0.3
11469414	173	0.7
11469406	175	< 0.3
11469402	179	< 0.3
11469416	181	< 0.3
11469415	183	< 0.3
11469407	187	< 0.3
11469440	207	< 0.3
11469447	230	< 0.3
11469448	318	< 0.3
11287194	100B	0.8
11287199	100D	0.7
11287200	100G	< 0.3

11287196	102C	< 0.3
11469429	120A	0.9
11469435	120A	< 0.3
11469436	APR	< 0.3
11469437	APR	0.8
11469403	GYM	0.7
11469404	GYM	0.9
11469410	GYM OFFICE	1.0
11287195	MAIN	< 0.3

Table 3 - QC Radon Testing Results			
Sequoyah Elementary School			
Test Period: 02/05/2024 - 02/08/2024			
Kit Number	QC Type	Room / Area	Result
11469455	FB	4	<0.3
11469302	D	5	<0.3
11469445	D	11	<0.3
11469472	D	Art	<0.3
11469468	FB	Eld1	<0.3
11469464	D	Media office	<0.3
11469466	D	Resource	<0.3
11470089	OB	OFFICE BLANK	< 0.3
11470096	TB	TRAVEL BLANK	< 0.3

Attachment 2:
Laboratory Reports

Radon test result report for:
BAYARD RUSTIN ES
MAIN

Kit #	Room Id	Started	Ended	pCi/L	Analyzed
11287194	100B	2024-02-05 @ 9:00 am	2024-02-08 @ 10:00 am	0.8 ± 0.4	2024-02-12
11287199	100D	2024-02-05 @ 9:00 am	2024-02-08 @ 10:00 am	0.7 ± 0.3	2024-02-12
11287200	100G	2024-02-05 @ 9:00 am	2024-02-08 @ 10:00 am	< 0.3	2024-02-12
11287198	102	2024-02-05 @ 9:00 am	2024-02-08 @ 10:00 am	< 0.3	2024-02-12
11287196	102C	2024-02-05 @ 9:00 am	2024-02-08 @ 10:00 am	< 0.3	2024-02-12
11469441	103	2024-02-05 @ 10:00 am	2024-02-08 @ 10:00 am	1.7 ± 0.4	2024-02-12
11469442	103	2024-02-05 @ 10:00 am	2024-02-08 @ 10:00 am	1.6 ± 0.4	2024-02-12
11469411	106	2024-02-05 @ 9:00 am	2024-02-08 @ 10:00 am	< 0.3	2024-02-12
11469409	119	2024-02-05 @ 9:00 am	2024-02-08 @ 10:00 am	< 0.3	2024-02-12
11469408	119	2024-02-05 @ 9:00 am	2024-02-08 @ 10:00 am	< 0.3	2024-02-12
11469429	120A	2024-02-05 @ 10:00 am	2024-02-08 @ 10:00 am	0.9 ± 0.4	2024-02-12
11469435	120A	2024-02-05 @ 10:00 am	2024-02-08 @ 10:00 am	< 0.3	2024-02-12
11469405	121	2024-02-05 @ 9:00 am	2024-02-08 @ 10:00 am	0.6 ± 0.4	2024-02-12
11469412	125	2024-02-05 @ 9:00 am	2024-02-08 @ 10:00 am	< 0.3	2024-02-12
11469433	126	2024-02-05 @ 10:00 am	2024-02-08 @ 10:00 am	0.7 ± 0.4	2024-02-12
11469420	127	2024-02-05 @ 9:00 am	2024-02-08 @ 10:00 am	< 0.3	2024-02-12
11469419	127	2024-02-05 @ 9:00 am	2024-02-08 @ 10:00 am	< 0.3	2024-02-12
11469431	129	2024-02-05 @ 9:00 am	2024-02-08 @ 10:00 am	< 0.3	2024-02-12
11469432	133	2024-02-05 @ 9:00 am	2024-02-08 @ 10:00 am	0.6 ± 0.3	2024-02-12
11469434	134	2024-02-05 @ 9:00 am	2024-02-08 @ 10:00 am	< 0.3	2024-02-12
11469423	135	2024-02-05 @ 9:00 am	2024-02-08 @ 10:00 am	0.5 ± 0.3	2024-02-12
11469417	137	2024-02-05 @ 9:00 am	2024-02-08 @ 10:00 am	< 0.3	2024-02-12
11469418	137	2024-02-05 @ 9:00 am	2024-02-08 @ 10:00 am	< 0.3	2024-02-12
11469424	141	2024-02-05 @ 9:00 am	2024-02-08 @ 10:00 am	< 0.3	2024-02-12
11469425	143	2024-02-05 @ 9:00 am	2024-02-08 @ 10:00 am	< 0.3	2024-02-12
11469427	149	2024-02-05 @ 9:00 am	2024-02-08 @ 10:00 am	< 0.3	2024-02-12
11469422	149	2024-02-05 @ 9:00 am	2024-02-08 @ 10:00 am	< 0.3	2024-02-12
11469421	153	2024-02-05 @ 9:00 am	2024-02-08 @ 10:00 am	< 0.3	2024-02-12
11469413	155	2024-02-05 @ 9:00 am	2024-02-08 @ 10:00 am	< 0.3	2024-02-12
11469439	159	2024-02-05 @ 9:00 am	2024-02-08 @ 10:00 am	< 0.3	2024-02-12
11469428	165	2024-02-05 @ 9:00 am	2024-02-08 @ 10:00 am	< 0.3	2024-02-12
11469426	169	2024-02-05 @ 9:00 am	2024-02-08 @ 10:00 am	< 0.3	2024-02-12
11469414	173	2024-02-05 @ 9:00 am	2024-02-08 @ 10:00 am	0.7 ± 0.4	2024-02-12
11469406	175	2024-02-05 @ 9:00 am	2024-02-08 @ 10:00 am	< 0.3	2024-02-12
11469402	179	2024-02-05 @ 9:00 am	2024-02-08 @ 10:00 am	< 0.3	2024-02-12
11469416	181	2024-02-05 @ 9:00 am	2024-02-08 @ 10:00 am	< 0.3	2024-02-12
11469415	183	2024-02-05 @ 9:00 am	2024-02-08 @ 10:00 am	< 0.3	2024-02-12

February 14, 2024

**** LABORATORY ANALYSIS REPORT ****

Radon test result report for:
BAYARD RUSTIN ES
MAIN

Kit #	Room Id	Started	Ended	pCi/L	Analyzed
11469407	187	2024-02-05 @ 9:00 am	2024-02-08 @ 10:00 am	< 0.3	2024-02-12
11469440	207	2024-02-05 @ 10:00 am	2024-02-08 @ 10:00 am	< 0.3	2024-02-12
11469447	230	2024-02-05 @ 10:00 am	2024-02-08 @ 10:00 am	< 0.3	2024-02-12
11469448	318	2024-02-05 @ 10:00 am	2024-02-08 @ 10:00 am	< 0.3	2024-02-12
11469437	APR	2024-02-05 @ 10:00 am	2024-02-08 @ 10:00 am	0.8 ± 0.4	2024-02-12
11469436	APR	2024-02-05 @ 10:00 am	2024-02-08 @ 10:00 am	< 0.3	2024-02-12
11469404	GYM	2024-02-05 @ 9:00 am	2024-02-08 @ 10:00 am	0.9 ± 0.4	2024-02-12
11469403	GYM	2024-02-05 @ 9:00 am	2024-02-08 @ 10:00 am	0.7 ± 0.4	2024-02-12
11469410	GYM OFFICE	2024-02-05 @ 9:00 am	2024-02-08 @ 10:00 am	1.0 ± 0.4	2024-02-12
11287195	MAIN	2024-02-05 @ 9:00 am	2024-02-08 @ 10:00 am	< 0.3	2024-02-12

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

February 13, 2024

**** LABORATORY ANALYSIS REPORT ****

Radon test result report for:

**KCI
MAIN**

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

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

January 29, 2024

**** LABORATORY ANALYSIS REPORT ****

Radon test result report for:
STORAGE
KCI

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

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

EXPOSURE IN BOWSER-MORNER RADON CHAMBER

CLIENT KCI TECHNOLOGIES, Inc Job Number 213819

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

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

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

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

11478400, 11477842, 11477845, _____

11477852, 11477996, 11477999 _____

E3 left

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

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

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

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

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

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

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

March 1, 2024

**** LABORATORY ANALYSIS REPORT ****

Radon test result report for:

FEB SK

MAIN

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

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



Radon Test Kit Chain of Custody

Project Name: MCPS Radon – Testing February 5th to February 8th 2024

Name of Schools:

- 1. Cedar Grove ES
- 2. College Gardens ES
- 3. Lois P. Rockwell ES
- 4. Clarksburg HS
- 5. Bayard Rustin ES
- 6. Sequoyah ES
- 7. Sherwood ES
- 8. Carver Educational Center

	Date	Initials
Radon Test Kits Deployed	02/05/2024	DM
Radon Test Kits Collected	02/08/2024	DM
Radon Test Kits Shipped to Lab*	02/08/2024	DM
Radon Test Kits Received by Lab*	02/12/2024	DM

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

Attachment 3:
Sampling Location Map



MCPS RADON TESTING – EXECUTIVE SUMMARY

Site Name	Bayard Rustin Elementary School
Date of Test Report	1/12/2023
Round of Testing	Initial Follow-up Post Remediation 2 Year Testing 5 Year Testing HVAC Upgrade Window Replacement New Addition New Facility
# Rooms Tested	43
# Rooms \geq 4.0 pCi/L	6
Lowest Value	<0.3 pCi/L
Highest Value	6.7 pCi/L

Project Status:

1. Initial testing completed;
2. Missing or compromised samples need re-test.
3. Mitigate Rooms 103, 119, 129, 133, 187, & 100D



January 12, 2023

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

Re: **Radon Testing Services**
KCI Job # 122210551

Location: Bayard Rustin Elementary School
332 West Edmonston Drive
Rockville, MD 20852

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 Bayard Rustin Elementary School, located at 332 West Edmonston Dr. Rockville, MD 20852 (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 December 12, 2022 and deployed forty-nine (49) 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 December 15, 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 temperatures were between 22°F and 53°F. Maximum sustained winds ranged from 0-20 miles per hour. Average humidity was around 70% with 1.98 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	103	3.6
	119	3.5
	129	4.7
	133	4.5
	187	3.5
	100D	6.7
<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 1- Radon Testing Results		
Bayard Rustin ES		
Test Period: 12/12/2022 - 12/15/2022		
Kit Number	Room / Area	Result
11140192	102	1.6
11140181	103	3.6
11285476	119	3.5
11285455	121	2.4
11285470	125	1.6
11140194	126	1.2
11140200	127	1.3
11287999	129	4.7
11114399	133	4.5
11140195	134	3.4
11140198	135	2.0
11285445	137	2.2
11285453	137	1.9
11285454	137	< 0.3
11140190	141	1.3
11140188	142	0.7
11140189	143	1.2
11140130	149	1.1
11285460	149	1.6
11140197	153	1.5
11285468	155	1.5
11285462	159	1.7
11140122	165	1.7
11140121	169	1.9
11140196	173	1.0
11140199	175	1.5
11285461	179	1.5
11285469	181	1.3
11285467	183	1.3
11285465	187	3.5
11285477	187	3.0
11285478	187	< 0.3
11285485	205	1.4
11285472	226	1.4
11285475	305	2.0
11140183	100B	2.0
11140184	100D	6.7
11140185	100F	2.5
11140191	102B	1.7
11140186	102C	1.8
11140179	APR	1.5
11140180	APR	1.3

Table 1- Radon Testing Results		
Bayard Rustin ES		
Test Period: 12/12/2022 - 12/15/2022		
Kit Number	Room / Area	Result
11140182	APR	1.7
11285471	GYM	2.6
11285479	GYM	2.4
11285463	GYM OFFICE	1.9
11140187	KITCHEN OFFICE	0.8
11140193	MAIN OFFICE	1.8
11140114	WORK ROOM	1.7

Table 2- Radon Testing Results			
Bayard Rustin ES			
Test Period: 12/12/22 - 12/15/22			
Kit Number	QC Type	Room / Area	Result
11285453	D	137	1.9
11285454	FB	137	< 0.3
11140130	D	149	1.1
11285477	D	187	3.0
11285478	FB	187	< 0.3
11140179	D	APR	1.5
11286981	OB	OFFICE BLANK	< 0.3
11286982	TB	TRAVEL BLANK	< 0.3

ATTACHMENT C

Laboratory Analytical Results

Radon test result report for:
BAYARD RUSTIN ES
1

Kit #	Room Id	Started	Ended	pCi/L	Analyzed
11140183	100B	2022-12-12 @ 11:00 am	2022-12-15 @ 10:00 am	2.0 ± 0.4	2022-12-19
11140184	100D	2022-12-12 @ 11:00 am	2022-12-15 @ 10:00 am	6.7 ± 0.5	2022-12-19
11140185	100F	2022-12-12 @ 11:00 am	2022-12-15 @ 10:00 am	2.5 ± 0.4	2022-12-19
11140192	102	2022-12-12 @ 11:00 am	2022-12-15 @ 10:00 am	1.6 ± 0.4	2022-12-19
11140191	102B	2022-12-12 @ 11:00 am	2022-12-15 @ 10:00 am	1.7 ± 0.4	2022-12-19
11140186	102C	2022-12-12 @ 11:00 am	2022-12-15 @ 10:00 am	1.8 ± 0.4	2022-12-19
11140181	103	2022-12-12 @ 11:00 am	2022-12-15 @ 11:00 am	3.6 ± 0.4	2022-12-19
11285476	119	2022-12-12 @ 12:00 pm	2022-12-15 @ 11:00 am	3.5 ± 0.4	2022-12-19
11285455	121	2022-12-12 @ 12:00 pm	2022-12-15 @ 11:00 am	2.4 ± 0.4	2022-12-19
11285470	125	2022-12-12 @ 12:00 pm	2022-12-15 @ 11:00 am	1.6 ± 0.4	2022-12-19
11140194	126	2022-12-12 @ 11:00 am	2022-12-15 @ 11:00 am	1.2 ± 0.4	2022-12-19
11140200	127	2022-12-12 @ 11:00 am	2022-12-15 @ 11:00 am	1.3 ± 0.4	2022-12-19
11287999	129	2022-12-12 @ 11:00 am	2022-12-15 @ 11:00 am	4.7 ± 0.5	2022-12-19
11114399	133	2022-12-12 @ 11:00 am	2022-12-15 @ 11:00 am	4.5 ± 0.4	2022-12-19
11140195	134	2022-12-12 @ 11:00 am	2022-12-15 @ 11:00 am	3.4 ± 0.4	2022-12-19
11140198	135	2022-12-12 @ 11:00 am	2022-12-15 @ 11:00 am	2.0 ± 0.4	2022-12-19
11285445	137	2022-12-12 @ 11:00 am	2022-12-15 @ 11:00 am	< 0.3	2022-12-19
11285453	137	2022-12-12 @ 11:00 am	2022-12-15 @ 11:00 am	1.9 ± 0.4	2022-12-19
11285454	137	2022-12-12 @ 11:00 am	2022-12-15 @ 11:00 am	2.2 ± 0.4	2022-12-19
11140190	141	2022-12-12 @ 11:00 am	2022-12-15 @ 11:00 am	1.3 ± 0.3	2022-12-19
11140188	142	2022-12-12 @ 11:00 am	2022-12-15 @ 11:00 am	0.7 ± 0.3	2022-12-19
11140189	143	2022-12-12 @ 11:00 am	2022-12-15 @ 11:00 am	1.2 ± 0.3	2022-12-19
11140130	149	2022-12-12 @ 11:00 am	2022-12-15 @ 11:00 am	1.1 ± 0.3	2022-12-19
11285460	149	2022-12-12 @ 11:00 am	2022-12-15 @ 11:00 am	1.6 ± 0.4	2022-12-19
11140197	153	2022-12-12 @ 11:00 am	2022-12-15 @ 11:00 am	1.5 ± 0.4	2022-12-19
11285468	155	2022-12-12 @ 12:00 pm	2022-12-15 @ 11:00 am	1.5 ± 0.4	2022-12-19
11285462	159	2022-12-12 @ 12:00 pm	2022-12-15 @ 11:00 am	1.7 ± 0.4	2022-12-19
11140122	165	2022-12-12 @ 11:00 am	2022-12-15 @ 11:00 am	1.7 ± 0.4	2022-12-19
11140121	169	2022-12-12 @ 11:00 am	2022-12-15 @ 11:00 am	1.9 ± 0.4	2022-12-19
11140196	173	2022-12-12 @ 11:00 am	2022-12-15 @ 11:00 am	1.0 ± 0.3	2022-12-19
11140199	175	2022-12-12 @ 11:00 am	2022-12-15 @ 11:00 am	1.5 ± 0.4	2022-12-19
11285461	179	2022-12-12 @ 12:00 pm	2022-12-15 @ 11:00 am	1.5 ± 0.4	2022-12-19
11285469	181	2022-12-12 @ 12:00 pm	2022-12-15 @ 11:00 am	1.3 ± 0.4	2022-12-19
11285467	183	2022-12-12 @ 12:00 pm	2022-12-15 @ 11:00 am	1.3 ± 0.4	2022-12-19
11285465	187	2022-12-12 @ 12:00 pm	2022-12-15 @ 11:00 am	3.5 ± 0.4	2022-12-19
11285478	187	2022-12-12 @ 12:00 pm	2022-12-15 @ 11:00 am	< 0.3	2022-12-19
11285477	187	2022-12-12 @ 12:00 pm	2022-12-15 @ 11:00 am	3.0 ± 0.4	2022-12-19

Radon test result report for:
BAYARD RUSTIN ES
1

Kit #	Room Id	Started	Ended	pCi/L	Analyzed
11285485	205	2022-12-12 @ 12:00 pm	2022-12-15 @ 11:00 am	1.4 ± 0.4	2022-12-19
11285472	226	2022-12-12 @ 12:00 pm	2022-12-15 @ 11:00 am	1.4 ± 0.4	2022-12-19
11285475	305	2022-12-12 @ 12:00 pm	2022-12-15 @ 11:00 am	2.0 ± 0.4	2022-12-19
11140180	APR	2022-12-12 @ 11:00 am	2022-12-15 @ 11:00 am	1.3 ± 0.4	2022-12-19
11140182	APR	2022-12-12 @ 11:00 am	2022-12-15 @ 11:00 am	1.7 ± 0.4	2022-12-19
11140179	APR	2022-12-12 @ 11:00 am	2022-12-15 @ 11:00 am	1.5 ± 0.4	2022-12-19
11285471	GYM	2022-12-12 @ 12:00 pm	2022-12-15 @ 11:00 am	2.6 ± 0.4	2022-12-19
11285479	GYM	2022-12-12 @ 12:00 pm	2022-12-15 @ 11:00 am	2.4 ± 0.4	2022-12-19
11285463	GYM OFFICE	2022-12-12 @ 12:00 pm	2022-12-15 @ 11:00 am	1.9 ± 0.4	2022-12-19
11140187	KITCHEN OFFICE	2022-12-12 @ 11:00 am	2022-12-15 @ 11:00 am	0.8 ± 0.4	2022-12-19
11140193	MAIN OFFICE	2022-12-12 @ 11:00 am	2022-12-15 @ 10:00 am	1.8 ± 0.4	2022-12-19
11140114	WORK ROOM	2022-12-12 @ 11:00 am	2022-12-15 @ 10:00 am	1.7 ± 0.4	2022-12-19



Radon Test Kit Chain of Custody

Project Name: MCPS Radon – April 2022 Schools – Retesting

Name of Schools:

1. Meadow Hall ES
2. Bayard Rustin ES
3. Lucy V. Barnsley ES
4. Cashell ES
5. Wheaton Woods ES
6. Winston Churchill HS

	Date	Initials
Radon Test Kits Deployed	12/12/2022	BMM
Radon Test Kits Collected	12/15/2022	BMM
Radon Test Kits Shipped to Lab*	12/15/2022	BMM
Radon Test Kits Received by Lab*	12/19/2022	BMM

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



MONTGOMERY COUNTY PUBLIC SCHOOLS RADON TESTING

Executive Summary:
Bayard Rustin Elementary School
332 West Edmonston Drive,
Rockville, MD 20852

Date of Test Report:	3/20/2019
Round of Testing:	Initial Follow-up Post Remediation 2 Year Testing 5 Year Testing HVAC Upgrade Window Replacement New Addition New Facility
# of Rooms Tested:	1
# of Rooms \geq 4.0 pCi/L:	0
Low Value:	< 0.4
High Value:	< 0.4

Project Status

Retesting completed: No further action at this time.



March 20, 2019

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

Re: Radon Testing Services

Location: Bayard Rustin Elementary School
332 West Edmonston Drive,
Rockville, MD 20852

Dear Mr. Cox:

Intertek-PSI (PSI) is pleased to submit the following report to the Montgomery County Public Schools (MCPS) for completion of a "short-term" 3-day radon test for Bayard Rustin Elementary School, located at 332 West Edmonston Drive, Rockville, MD 20852 (subject site).

Scope of Services:

PSI 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. PSI 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 #14SS007) 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.

PSI visited the site on February 26, 2019 and deployed one (1) activated charcoal (AC) radon test kit. PSI deployed radon test kits in frequently-occupied ground contact rooms, and other areas, (if applicable) in accordance with AARST guidance. PSI returned to the site on March 1, 2019 to retrieve the radon sampling test kit. A floor plan map of the building with the test locations is included as Attachment A of this report.

PSI 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 located at 929 Mount Zion Road, Lebanon, Pennsylvania (certification # ARL0007).

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 $\leq 65^{\circ}\text{F}$.

PSI 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.



PSI also conducted observations of field conditions which could affect the results of the test and compiled weather data for the testing period. PSI 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	NA
≤ 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 (703) 698-9300.

ATTACHMENT B

Radon Test Summary Spreadsheet

Radon Testing Results		
Lucy V. Barnsley Elementary School		
Testing period: 2/26/19 - 3/1/19		
Kit Number	Room / Area	Result (pCi/L)
3923524	Room 159	< 0.4

Table Notes:

D – Duplicate

FB – Field Blank

OB – Office Blank

TB – Transit Blank

QC – Quality Control

ATTACHMENT C

Laboratory Analytical Results

NRPP 105011 AL
NRSB ARL0007

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

Laboratory Report for:

Property Tested: Project # 04481387-1

Intertek-PSI (VA)
2930 Eskridge Road
Fairfax VA 22031

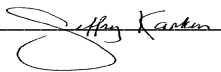
MCPS Radon Survey Bayard Rustin ES
332 W. Edmonston Drive
Rockville MD 20852

Log Number	Device Number	Test Exposure	Duration:	Area Tested	Result
3220714	3923524	02/26/2019 8:10 am	03/01/2019 8:10 am	Floor Main Room 159	< 0.4

Comment: A copy of this report was e-mailed to Intertek-PSI (VA)

Distributed by: Intertek-PSI (VA)

Date Received: 03/04/2019 Date Logged: 03/04/2019 Date Analyzed: 03/05/2019 Date Reported: 03/05/2019

Report Reviewed By: 

Report Approved By: 

Disclaimer:

Shawn Price, Director of Laboratory Operations, 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.

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.



MONTGOMERY COUNTY PUBLIC SCHOOLS RADON TESTING

Executive Summary: Bayard Rustin Elementary School

332 W Edmonston Drive,
Rockville, MD 20852

Date of Test Report:	1/15/2019
Round of Testing:	Initial Follow-up Post Remediation 2 Year Testing 5 Year Testing HVAC Upgrade Window Replacement New Addition New Facility
# of Rooms Tested:	41
# of Rooms \geq 4.0 pCi/L:	0
Low Value:	< 0.4
High Value:	1.0

Project Status

Initial testing complete: Missing or compromised samples need re-test.



January 15, 2019

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

Re: Radon Testing Services

Location: Bayard Rustin Elementary School
332 W. Edmonston Drive,
Rockville, MD 20852

Dear Mr. Cox:

Intertek-PSI (PSI) is pleased to submit the following report to the Montgomery County Public Schools (MCPS) for completion of a "short-term" 3-day radon test for Bayard Rustin Elementary School, located at 332 W. Edmonston Drive, Rockville, MD 20852 (subject site).

Scope of Services:

PSI 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. PSI 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 #14SS007) 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.

PSI visited the site on November 12, 2018 and deployed fifty-one (51) activated charcoal (AC) radon test kits. PSI deployed radon test kits in frequently-occupied ground contact rooms, and other areas, (if applicable) in accordance with AARST guidance. PSI returned to the site on November 15, 2018 to retrieve the radon sampling test kits. A floor plan map of the building with the test locations is included as Attachment A of this report.

As a quality control measure, PSI included duplicate samples, field blanks, lab transit blanks, and office blanks in accordance with AARST recommendations. In addition, PSI submitted ten (10) test kits to Bowser-Morner Inc. as spike samples. The spiked tests were exposed to a known radon concentration by Bowser-Morner Inc. prior to being returned to the laboratory for analysis.

PSI 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 located at 929 Mount Zion Road, Lebanon, Pennsylvania (certification # ARL0007) and 2 Saber Way, Haverhill, Massachusetts (certification # ARL0017).



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 $\leq 65^{\circ}\text{F}$.

PSI 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.

PSI also conducted observations of field conditions which could affect the results of the test and compiled weather data for the testing period. PSI 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	NA
≤ 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 (703) 698-9300.



Respectfully Submitted,

INTERTEK-PSI

A handwritten signature in black ink that reads "Nand Kaushik". The signature is fluid and cursive.

Nand Kaushik, P.E.
Department Manager, Environmental Services
Nand.Kaushik@intertek.com

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

ATTACHMENT B

Radon Test Summary Spreadsheet

Radon Testing Results		
Bayard Rustin Elementary School		
Testing period: 11/12/18 - 11/15/18		
Kit Number	Room / Area	Result (pCi/L)
3915916	100	0.5
3915918	100B	< 0.4
3915915	100D	< 0.4
3915854	100G	< 0.4
3915948	101B	0.5
3915911	102	< 0.4
3915920	102B	< 0.4
3915913	102C	< 0.4
3915917	103	0.4
3915914	106	< 0.4
3915943	119	< 0.4
3915801	120	< 0.4
3915971	120A	< 0.4
3915947	121	< 0.4
3915946	125	< 0.4
3915807	126	< 0.4
3915977	127	< 0.4
3915806	129	< 0.4
3915809	133	< 0.4
3915975	134	< 0.4
3915802	137	< 0.4
3915808	141	1.0
3915976	149	< 0.4
3915972	153	< 0.4
3915804	155	< 0.4
3915805	159 (MISSING)	--
3915973	165	< 0.4
3915803	169	< 0.4
2915980	173	< 0.4
3915810	175	< 0.4
3915941	179	< 0.4
3915945	181	< 0.4
3915949	183	< 0.4
3915944	187	< 0.4
3915859	205	< 0.4
3915978	223	< 0.4
3915858	226	< 0.4
3915853	307	< 0.4
3915857	318	< 0.4
3881217	Gym	0.4
3881207	Gym	< 0.4
3915860	Platform	< 0.4

Radon Testing Results		
Bayard Rustin Elementary School		
Testing period: 11/12/18 - 11/15/18		
Kit Number	QC Type	Result (pCi/L)
3915919	100B (D)	< 0.4
3915912	103 (D)	< 0.4
3915852	120A (D)	< 0.4
3915974	165 (D)	< 0.4
3915942	187 (D)	< 0.4
3917306	Field Blank	< 0.4
3907307	Field Blank	< 0.4
3907308	Transit Blank	< 0.4
3907309	Office Blank	< 0.4

Table Notes:

D – Duplicate

FB – Field Blank

OB – Office Blank

TB – Transit Blank

QC – Quality Control

ATTACHMENT C

Laboratory Analytical Results

NELAC NY 11769
NRPP 103216 AL
NRSB ARL0017

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

Laboratory Report for:

Intertek-PSI (VA)
2930 Eskridge Road
Fairfax VA 22031

Property Tested: Project # 04481387-1


MCPS Radon Survey
Bayard Rustin ES
332 West Edmonston Drive
Rockville MD 20852

Log Number	Device Number	Test Exposure Duration:	Area Tested	Result pCi/L
2393547	3917307	11/12/2018 10:44 am 11/15/2018 9:21 am	Field Blank	< 0.4
2393548	3915916	11/12/2018 10:44 am 11/15/2018 9:09 am	First Floor Room 100	0.5
2393549	3915918	11/12/2018 10:49 am 11/15/2018 9:10 am	First Floor Room 100B	< 0.4
2393550	3917308	11/12/2018 10:44 am 11/15/2018 9:21 am	Transit Blank	< 0.4
2393551	3915919	11/12/2018 10:49 am 11/15/2018 9:12 am	First Floor Room 100B	< 0.4
2393552	3915980	11/12/2018 11:18 am 11/15/2018 9:38 am	First Floor Room173	< 0.4
2393553	3917309	11/12/2018 6:00 am 11/15/2018 6:00 pm	Not Indicated	< 0.4
2393554	3915915	11/12/2018 10:51 am 11/15/2018 9:13 am	First Floor Room 100D	< 0.4
2393555	3915914	11/12/2018 10:52 am 11/15/2018 9:15 am	First Floor Room 106	< 0.4
2393556	3915911	11/12/2018 10:54 am 11/15/2018 9:16 am	First Floor Room 102	< 0.4
2393557	3915920	11/12/2018 10:56 am 11/15/2018 9:18 am	First Floor Room 102B	< 0.4

Comment: AMENDED REPORT on 1/10/2019 to add the date and time the test began and ended for device 3917309.
Confidential: Release results to client only.

Distributed by: Intertek-PSI (VA)

Date Received: 11/17/2018 Date Logged: Date Analyzed: 11/18/2018 Date Reported: 12/21/2018

Report Reviewed By: 

Report Approved By: 

Shawn Price, Director of Laboratory Operations, AccuStar Labs

Disclaimer:

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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NELAC NY 11769
NRPP 103216 AL
NRSB ARL0017

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

Laboratory Report for:

Intertek-PSI (VA)
2930 Eskridge Road
Fairfax VA 22031

Property Tested: Project # 04481387-1

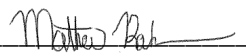
MCPS Radon Survey
Bayard Rustin ES
332 West Edmonston Drive
Rockville MD 20852

Log Number	Device Number	Test Exposure Duration:	Area Tested	Result pCi/L
2393592	3915853	11/12/2018 12:25 pm 11/15/2018 10:10 am	First Floor Room 307	< 0.4
2393593	3915857	11/12/2018 12:28 pm 11/15/2018 10:12 am	First Floor Room 318	< 0.4
2393594	3915854	11/12/2018 12:30 pm 11/15/2018 9:14 am	First Floor Room 100G	< 0.4
2393595	3917306	11/12/2018 10:44 am 11/15/2018 9:21 am	Office Blank	< 0.4

Comment: AMENDED REPORT on 1/10/2019 to add the date and time the test began and ended for device 3917309.
Confidential: Release results to client only.

Distributed by: Intertek-PSI (VA)

Date Received: 11/17/2018 Date Logged: Date Analyzed: 11/18/2018 Date Reported: 12/21/2018

Report Reviewed By: 

Report Approved By: 

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NELAC NY 11769
NRPP 103216 AL
NRSB ARL0017

EPA Method #402-R-92-004
Liquid Scintillation
NRPP Device Code 8088
NRSB Device Code 12193

Laboratory Report for:

Intertek-PSI (VA)
2930 Eskridge Road
Fairfax VA 22031

Property Tested: Project # 04481387-1


MCPS Radon Survey
Bayard Rustin ES
332 West Edmonston Drive
N Bethesda MD 20852


Log Number	Device Number	Test Exposure Duration:	Area Tested	Result pCi/L
2393085	3881207	11/12/2018 12:36 pm 11/15/2018 9:21 am	Bldg. Bayard Rustin ES Floor First Room GYM	<0.4
2393086	3881217	11/12/2018 12:35 pm 11/15/2018 9:20 am	Bldg. Bayard Rustin ES Floor First Room GYM	0.4

Comment: A copy of this report was emailed to Intertek-PSI (VA).

Distributed by: Intertek-PSI (VA)

Date Received: 11/18/2018 Date Logged: 11/18/2018 Date Analyzed: 11/19/2018 Date Reported: 12/17/2018

Report Reviewed By: 

Report Approved By: 

Disclaimer:

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NRPP 105011 AL
NRSB ARL0007
Ohio RL41

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

Laboratory Report for:

Property Tested:

Intertek-PSI (VA)
2930 Eskridge Road
Fairfax VA 22031

MCPS Radon Survey
4514 Taylorsville Road
Dayton OH 45424

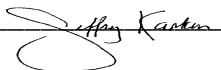
Log Number	Device Number	Test Exposure Duration:	Area Tested	Result pCi/L
3204125	3926831	12/07/2018 9:47 am - 12/10/2018 9:47 am	Spike	36.1
3204126	3926832	12/07/2018 9:47 am - 12/10/2018 9:47 am	Spike	34.8
3204127	3926833	12/07/2018 9:47 am - 12/10/2018 9:47 am	Spike	33.7
3204128	3926834	12/07/2018 9:47 am - 12/10/2018 9:47 am	Spike	35.8
3204129	3926835	12/07/2018 9:47 am - 12/10/2018 9:47 am	Spike	35.0
3204130	3926836	12/07/2018 9:47 am - 12/10/2018 9:47 am	Spike	34.5
3204131	3926837	12/07/2018 9:47 am - 12/10/2018 9:47 am	Spike	34.6
3204132	3926838	12/07/2018 9:47 am - 12/10/2018 9:47 am	Spike	34.3
3204133	3926839	12/07/2018 9:47 am - 12/10/2018 9:47 am	Spike	33.2
3204134	3926840	12/07/2018 9:47 am - 12/10/2018 9:47 am	Spike	34.0


Comment: A copy of this report was e-mailed to Intertek-PSI (VA)

Test Performed By: Unknown

Distributed by: Intertek-PSI (VA)

Date Received: 12/12/2018 Date Logged: 12/12/2018 Date Analyzed: 12/12/2018 Date Reported: 12/13/2018

Report Reviewed By: 

Report Approved By: 

Disclaimer:

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EXPOSURE IN BOWSER-MORNER RADON CHAMBER

CLIENT Intertek - PSI Job Number 187732

NOMINAL Conditions: Radon Conc 32.6 pCi/L Rel. Hum 49.1 % Temp. 70.1 F

Date Start: 12/7/18 Date Stop: 12/10/18 Date Start: _____ Date Stop: _____

Time Start: 0947 Time Stop: 0947 Time Start: _____ Time Stop: _____

Device No.'s: (10) Char. Cans- Device No.'s: _____

3926831 thru 3926840 _____

G2 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**



Chain of Custody

Project Name: MCPS Radon Survey 2018

Name of Schools:

- | | | |
|-------------------|----------------------|--------------------|
| 1. Arcola ES | 7. North Lake Center | 13. Cold Spring ES |
| 2. Glen Haven ES | 8. Barnsley ES | 14. Hoover MS |
| 3. Jackson Road | 9. Bayard Rustin ES | 15. Wayside ES |
| 4. Cashell ES | 10. Julius West MS | 16. English Manor |
| 5. Frost MS | 11. Rock Terrace HS | |
| 6. Meadow Hall ES | 12. Churchill HS | |

	Date	Initials
Radon Test Kits Deployed	11/12/2018	NL
Radon Test Kits Sampled	11/15/2018	NL
Radon Test Kits Shipped to Lab*	11/15/2018	NL
Radon Test Kits Received by Lab*	11/17/2018; 11/18/2018	NL

*All samples sent to AccuStar Laboratories, 929 Mount Zion Road, Lebanon, PA 17046 and 2 Saber Way, Haverhill, MA 01835