

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

DuFief Elementary School Site Name Date of Test Report 05/27/2022 Round of Testing Initial (Follow-up) Post Remediation 2 Year Testing 5 Year Testing HVAC Upgrade Window Replacement New Addition New Facility # Rooms Tested 3 # Rooms \geq 4.0 pCi/L 0

MCPS RADON TESTING – EXECUTIVE SUMMARY

Project Status

<0.3 pCi/L

<0.3 pCi/L

Lowest Value

Highest Value

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



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

May 27, 2022

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

Re:	Radon Testing Services
	KCI Job # 122108316

Location: DuFief Elementary School 15001 DuFief Dr. Gaithersburg, MD 20878

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 DuFief Elementary School, located at 15001 DuFief Dr. Gaithersburg, MD 20878 (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 28, 2022 and deployed six (6) 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. \geq 3.5 piC/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 31, 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 mid 20°Fs and high temperatures ranged from the low 50°Fs to the mid 70°Fs. Maximum sustained winds ranged from 0-33 miles per hour. Average humidity was around 47% with 0.23 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 piC/L	None	N/A
<4.0 piC/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 McCleaf

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			
	DuFief ES RT		
Τe	est Period: 03/28/2022 - 03/31/2022		
Kit Number	Room / Area	Result	
11139810 APR < 0.3			
11139812 APR < 0.3			
11139814 BSO < 0.3			
11139806	COUNSELOR	< 0.3	
11139813	11139813 COUNSELOR < 0.3		
11139817 COUNSELOR < 0.3			

Table 2- Radon Testing Results				
	DuFie	f ES RT		
	Test Period: 03/28,	/2022 - 03/31/2022		
Kit Number QC Type Room / Area Result				
11139817	D	Counselor	< 0.3	
11139813	FB	Counselor	< 0.3	
11139883	OB	OFFICE BLANK	< 0.3	
11139841	ТВ	TRAVEL BLANK	< 0.3	

Summary of Missed Locations					
DuFief ES RT					
Т	Test Period: 03/28/22 - 03/31/22				
Kit Number	Room/Area	Result			
	NA				

Summary of Missing, Compromised and >/= 4 piC/L Tests					
DuFief ES RT					
	Test Period: 03/28/22 - 03/31/22				
Kit Number	Room/Area	Result			
	NA				

Table Note:

* Missing or Compromised Sample

ATTACHMENT C

Laboratory Analytical Results

**** LABORATORY ANALYSIS REPORT ****

Radon test result report for: DUFIEF ES MAIN

Kit #	Room Id	Started	Ended	pCi/L	Analyzed
11139810	APR	2022-03-28 @ 10:00 ar	n 2022-03-31 @ 10:00 am	< 0.3	2022-04-04
11139812	APR	2022-03-28 @ 10:00 ar	n 2022-03-31 @ 10:00 am	< 0.3	2022-04-04
11139814	BSO	2022-03-28 @ 10:00 ar	m 2022-03-31 @ 10:00 am	< 0.3	2022-04-04
11139806	COUNSELOR	2022-03-28 @ 10:00 ar	m 2022-03-31 @ 10:00 am	< 0.3	2022-04-04
11139813	COUNSELOR	2022-03-28 @ 10:00 ar	m 2022-03-31 @ 10:00 am	< 0.3	2022-04-04
11139817	COUNSELOR	2022-03-28 @ 10:00 ar	n 2022-03-31 @ 10:00 am	< 0.3	2022-04-04

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, I	Job N	umber 204620
NOMINAL Conditions: Radon Conc 27.0 p		_% Temp. <u>70.0</u> 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		е
E3 Right	· · · · · · · · · · · · · · · · · · ·	
Date Start: Date Stop:	Date Start:	Date Stop:
Time Start: Time Stop:	Time Start:	Time Stop:
Device No.'s:	Device No.'s:	
	·	fi .
8		
Date Start: Date Stop:	Date Start:	Date Stop:
Time Start: Time Stop:	Time Start:	_ Time Stop:
Device No.'s:	Device No.'s:	
	2	

1

Note: All times are in 24-hour (military) notation, Eastern Standard Time (EST) Background = 7 μR/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 ± 2.1	2022-03-30
11139368	SK2	2022-03-18 @ 7:00 am	2022-03-21 @ 7:00 am	23.9 ± 2.0	2022-03-30
11139371	SK3	2022-03-18 @ 7:00 am	2022-03-21 @ 7:00 am	25.7 ± 2.1	2022-03-30
11139710	SK4	2022-03-18 @ 7:00 am	2022-03-21 @ 7:00 am	26.4 ± 2.1	2022-03-30
11139717	SK5	2022-03-18 @ 7:00 am	2022-03-21 @ 7:00 am	24.6 ± 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. Rock Terrace School
- 2. S. Christa McAuliffe ES
- 3. Cedar Grove ES
- 4. DuFief ES
- 5. Emory Grove Center
- 6. Gaithersburg ES
- 7. Gaithersburg MS
- 8. Jones Lane ES
- 9. Rachel Carson ES
- **10.Rosemont ES**
- 11.Shady Grove MS
- 12.Summit Hall ES
- **13.Albert Einstein HS**
- 14.Eastern MS
- **15.**Montgomery Blair HS
- 16.Newport Mill MS
- 17.Strawberry Knoll ES

	Date	Initials
Radon Test Kits Deployed	03/28/2022	BMM
Radon Test Kits Collected	03/31/2022	BMU
Radon Test Kits Shipped to Lab*	04/01/2022	BMIN
Radon Test Kits Received by Lab*	04/04/2022	BMM

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



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

Site Name	Dufief Elementary
	School
Date of Test Report	4/7/2022
Round of Testing	Initial
	Follow-up
	Post Remediation
	2 Year Testing
	5 Year Testing
	HVAC Upgrade
	Window Replacement
	New Addition
	New Facility
# Rooms Tested	49
# Rooms \geq 4.0 pCi/L	0
Lowest Value	<0.3 pCi/L
Highest Value	0.8 pCi/L

MCPS RADON TESTING – EXECUTIVE SUMMARY

Project Status: Initial testing completed; Missing or compromised samples need re-sampling



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

April 7, 2022

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

Re:	Radon Testing Services
	KCI Job # 122108316

Location: Dufief ES 15001 Dufief Dr. Gaithersburg, MD 20878

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 Dufief ES, located at 15001 Dufief Dr. Gaithersburg, MD 20878 (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 22, 2022 and deployed fifty one (51) 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 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 post-mitigation biennial testing.

These tests were conducted to:

• Confirm the success of the mitigation system(s).

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 piC/L	None	N/A
<4.0 piC/L	See Attachn	nent 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 McCleaf

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

Attachments:

A- Floor Plan with Test LocationsB- Table 1-3, Radon Test Summary SpreadsheetsC- 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							
	Dufief ES							
Te	Test Period: 02/22/2022 - 02/25/2022							
· · · · · · · ·								
Kit Number	Room / Area	Result						
11123084	1	< 0.3						
11123059	2	< 0.3						
11123089	3	< 0.3						
11123058	4	< 0.3						
11123064	5	< 0.3						
11123057	6	< 0.3						
11123053	7	< 0.3						
11123047	8	< 0.3						
11123056	9	< 0.3						
11123083	10	< 0.3						
11123036	11	< 0.3						
11123051	11	< 0.3						
11123060	12	< 0.3						
11123073	12	< 0.3						
11123091	13	0.6						
11123045	14	< 0.3						
11123093	14	< 0.3						
11123071	16	< 0.3						
11123082	17	0.6						
11123061	18	0.8						
11123080	18	< 0.3						
11123087	20	< 0.3						
11123068	21	< 0.3						
11123086	AC/RES OFFICE	< 0.3						
11123088	ACADEMY	< 0.3						
11123085	APR	< 0.3						
11123063	ART	< 0.3						
11123094	ASST PRINCIPAL	< 0.3						
11123065	AUBLEY	< 0.3						
11113500	COMM CENTER	< 0.3						
11123092	COMM CENTER OFFICE	< 0.3						
11123100	CONF ROOM	< 0.3						
11123079	GYM	< 0.3						
11123081	GYM	< 0.3						
11123078	GYM OFFICE	< 0.3						
11123074	IMC OFFICE	< 0.3						
11123099	IMC OFFICE	< 0.3						
11123066	К1	< 0.3						
11123095	К1	< 0.3						
11123096	К2	< 0.3						
11123043	LIBRARIAN OFFICE	< 0.3						
11123069	MAIN OFFICE	< 0.3						
11123062	NURSE OFFICE	< 0.3						
11123072	OT PT	< 0.3						
11123098	PRINCIPAL OFFICE	< 0.3						

Table 1- Radon Testing Results						
	Dufief ES					
Τe	est Period: 02/22/2022 - 02/25/2022					
Kit Number	Room / Area	Result				
11122997	11122997 SLP					
11123044	< 0.3					
11123054	< 0.3					
11123070	STAFF LOUNGE	< 0.3				
11123067	VANE	< 0.3				
11123076	WORKROOM	0.6				

Table 2- Radon Testing Results						
	Dufi	ef ES				
	Test Period: 02/22,	/2022 - 02/25/2022				
Kit Number	QC Type	Room / Area	Result			
11123061	D	18	0.8			
11123045	D	14	< 0.3			
11123099	FB	IMC Office	< 0.3			
11123044	D	Speech	< 0.3			
11123060	FB	12	< 0.3			
11123036	D	11	< 0.3			
11123095 D K1 < 0.						
11139384	OB	OFFICE BLANK	< 0.3			
11131222	ТВ	TRAVEL BLANK	< 0.3			

Summary of Missed Locations							
Dufief ES							
Т	est Period: 02/22/22 - 02/25/22						
Kit Number	Room/Area	Result					
NA	Building Services Office	NA					
NA	Counselor	NA					

Summary	of Missing, Compromised and >/= 4	piC/L Tests
	Dufief ES	
	Test Period: 02/22/22 - 02/25/22	
Kit Number	Room/Area	Result
11123039	APR	Missing

Table Note:

* Missing or Compromised Sample

ATTACHMENT C

Laboratory Analytical Results

Radon test result report for: DUFIEF ES MAIN

Kit #	Room Id	Started	Ended	pCi/L	Analyzed
11123084	1	2022-02-22 @ 10:00 am	2022-02-25 @ 9:00 am	< 0.3	2022-03-03
11123083	10	2022-02-22 @ 9:00 am	2022-02-25 @ 9:00 am	< 0.3	2022-03-03
11123051	11	2022-02-22 @ 10:00 am	2022-02-25 @ 9:00 am	< 0.3	2022-03-03
11123036	11	2022-02-22 @ 10:00 am	2022-02-25 @ 9:00 am	< 0.3	2022-03-03
11123073	12	2022-02-22 @ 10:00 am	2022-02-25 @ 9:00 am	< 0.3	2022-03-03
11123060	12	2022-02-22 @ 9:00 am	2022-02-25 @ 9:00 am	< 0.3	2022-03-03
11123091	13	2022-02-22 @ 9:00 am	2022-02-25 @ 9:00 am	0.6 ± 0.5	2022-03-03
11123045	14	2022-02-22 @ 9:00 am	2022-02-25 @ 9:00 am	< 0.3	2022-03-03
11123093	14	2022-02-22 @ 9:00 am	2022-02-25 @ 9:00 am	< 0.3	2022-03-03
11123071	16	2022-02-22 @ 9:00 am	2022-02-25 @ 9:00 am	< 0.3	2022-03-03
11123082	17	2022-02-22 @ 9:00 am	2022-02-25 @ 9:00 am	0.6 ± 0.5	2022-03-03
11123061	18	2022-02-22 @ 9:00 am	2022-02-25 @ 9:00 am	0.8 ± 0.5	2022-03-03
11123080	18	2022-02-22 @ 9:00 am	2022-02-25 @ 9:00 am	< 0.3	2022-03-03
11123059	2	2022-02-22 @ 10:00 am	2022-02-25 @ 9:00 am	< 0.3	2022-03-03
11123087	20	2022-02-22 @ 9:00 am	2022-02-25 @ 9:00 am	< 0.3	2022-03-03
11123068	21	2022-02-22 @ 9:00 am	2022-02-25 @ 9:00 am	< 0.3	2022-03-03
11123089	3	2022-02-22 @ 10:00 am	2022-02-25 @ 9:00 am	< 0.3	2022-03-03
11123058	4	2022-02-22 @ 10:00 am	2022-02-25 @ 9:00 am	< 0.3	2022-03-03
11123064	5	2022-02-22 @ 10:00 am	2022-02-25 @ 9:00 am	< 0.3	2022-03-03
11123057	6	2022-02-22 @ 10:00 am	2022-02-25 @ 9:00 am	< 0.3	2022-03-03
11123053	7	2022-02-22 @ 9:00 am	2022-02-25 @ 9:00 am	< 0.3	2022-03-03
11123047	8	2022-02-22 @ 9:00 am	2022-02-25 @ 9:00 am	< 0.3	2022-03-03
11123056	9	2022-02-22 @ 9:00 am	2022-02-25 @ 9:00 am	< 0.3	2022-03-03
11123086	AC/RES OFFICE	2022-02-22 @ 9:00 am	2022-02-25 @ 9:00 am	< 0.3	2022-03-03
11123088	ACADEMY	2022-02-22 @ 9:00 am	2022-02-25 @ 9:00 am	< 0.3	2022-03-03
11123085	APR	2022-02-22 @ 9:00 am	2022-02-25 @ 9:00 am	< 0.3	2022-03-03
11123063	ART	2022-02-22 @ 10:00 am	2022-02-25 @ 9:00 am	< 0.3	2022-03-03
11123094	ASST PRINCIPAL	2022-02-22 @ 9:00 am	2022-02-25 @ 9:00 am	< 0.3	2022-03-03
11123065	AUBLEY	2022-02-22 @ 10:00 am	2022-02-25 @ 9:00 am	< 0.3	2022-03-03
11113500	COMM CENTER	2022-02-22 @ 9:00 am	2022-02-25 @ 9:00 am	< 0.3	2022-03-03
11123092	COMM CENTER OFFICE	2022-02-22 @ 9:00 am	2022-02-25 @ 9:00 am	< 0.3	2022-03-03
11123100	CONF ROOM	2022-02-22 @ 9:00 am	2022-02-25 @ 9:00 am	< 0.3	2022-03-03
11123079	GYM	2022-02-22 @ 9:00 am	2022-02-25 @ 9:00 am	< 0.3	2022-03-03
11123081	GYM	2022-02-22 @ 9:00 am	2022-02-25 @ 9:00 am	< 0.3	2022-03-03
11123078	GYM OFFICE	2022-02-22 @ 9:00 am	2022-02-25 @ 9:00 am	< 0.3	2022-03-03
11123074	IMC OFFICE	2022-02-22 @ 9:00 am	2022-02-25 @ 9:00 am	< 0.3	2022-03-03
11123099	IMC OFFICE	2022-02-22 @ 9:00 am	2022-02-25 @ 9:00 am	< 0.3	2022-03-03

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

March 3, 2022

**** LABORATORY ANALYSIS REPORT ****

Radon test result report for: DUFIEF ES MAIN

Kit #	Room Id	Started	Ended	pCi/L	Analyzed
11123095	K1	2022-02-22 @ 10:00 am	2022-02-25 @ 9:00 am	< 0.3	2022-03-03
11123066	K1	2022-02-22 @ 10:00 am	2022-02-25 @ 9:00 am	< 0.3	2022-03-03
11123096	K2	2022-02-22 @ 10:00 am	2022-02-25 @ 9:00 am	< 0.3	2022-03-03
11123043	LIBRARIAN OFFICE	2022-02-22 @ 9:00 am	2022-02-25 @ 9:00 am	< 0.3	2022-03-03
11123069	MAIN OFFICE	2022-02-22 @ 9:00 am	2022-02-25 @ 9:00 am	< 0.3	2022-03-03
11123062	NURSE OFFICE	2022-02-22 @ 9:00 am	2022-02-25 @ 9:00 am	< 0.3	2022-03-03
11123072	OT PT	2022-02-22 @ 9:00 am	2022-02-25 @ 9:00 am	< 0.3	2022-03-03
11123098	PRINCIPAL OFFICE	2022-02-22 @ 9:00 am	2022-02-25 @ 9:00 am	< 0.3	2022-03-03
11122997	SLP	2022-02-22 @ 9:00 am	2022-02-25 @ 9:00 am	< 0.3	2022-03-03
11123044	SPEECH	2022-02-22 @ 9:00 am	2022-02-25 @ 9:00 am	< 0.3	2022-03-03
11123054	SPEECH	2022-02-22 @ 9:00 am	2022-02-25 @ 9:00 am	< 0.3	2022-03-03
11123070	STAFF LOUNGE	2022-02-22 @ 9:00 am	2022-02-25 @ 9:00 am	< 0.3	2022-03-03
11123067	VANE	2022-02-22 @ 10:00 am	2022-02-25 @ 9:00 am	< 0.3	2022-03-03
11123076	WORKROOM	2022-02-22 @ 9:00 am	2022-02-25 @ 9:00 am	0.6 ± 0.4	2022-03-03

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	-
	_pCi/L Rel. Hum <u>59.1</u> % Temp. <u>79.9</u>	
Date Start: <u>a / 18 / 22</u> Date Stop: <u>2/a / a</u>	a Date Start: Date Stop:	
	_ Time Start: Time Stop:	
Device No.'s: (3) Char Bags-	Device No.'s:	
11113484, 11122998, 20107126		
23 Right		
	Date Start: Date Stop:	
Time Start: Time Stop:	Time Start: Time Stop:	
Device No.'s:	Device No.'s:	
	æ	
00) 20		
Date Start: Date Stop:	Date Start: Date Stop:	
Time Start: Time Stop:	Time Start: Time Stop:	
Device No.'s:	Device No.'s:	
	9 1	1.00
	*	

í _

Note: All times are in 24-hour (military) notation, Eastern Standard Time (EST) Background = 7 μR/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. Dufief ES
- 2. Emory Grove Center
- 3. Fields Road ES
- 4. Forest Oak MS
- 5. Gaithersburg ES
- 6. Gaithersburg MS
- 7. Jones Lane ES
- 8. Rachel Carson ES
- 9. Rosemont ES
- 10.Shady Grove MS
- 11.Summit Hall ES
- 12. Washington Grove ES

	Date	Initials
Radon Test Kits Deployed	02/22/2022	m
Radon Test Kits Collected	02/25/2022	m
Radon Test Kits Shipped to Lab*	02/25/2022	M
Radon Test Kits Received by Lab*	02/28/2022	M

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