



**MCPS RADON TESTING - EXECUTIVE SUMMARY**

Site Name	Farquhar Middle School
Date of Report	2/28/2020
Round of Testing	Initial <b>Follow-up</b> Post Remediation 2 year testing 5 year testing HVAC Upgrade Window Replacement New Addition New Facility
# of Rooms Tested	1
# Rooms $\geq$ 4.0 pCi/L	0
Lowest Value	<0.3 pCi/L
Highest Value	<0.3 pCi/L

**Project Status**

Current Project Status at this time: Retesting completed;



2/28/2020

Mr. Richard Cox, MS  
Team Leader  
Montgomery County Public Schools  
Division of Maintenance  
Gaithersburg, Maryland 20879

Re: Radon Testing Services

KCI Job #12146341.126

**Location: Farquhar Middle School**

17017 Batchellors Forest Road  
Olney, Maryland 20832

Dear Mr. Cox:

KCI Technologies, Inc. (KCI) is pleased to submit the following report to Montgomery County Public Schools pursuant to completing a “short-term” 3-day radon test for the Farquhar Middle School, located at 17017 Batchellors Forest Road in Olney, Maryland 20832 (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 #111004 RT) supervised the testing. Additional information on radon management and the health effects of radon exposure is available from [www.montgomerycountymd.gov/dep/air/radon](http://www.montgomerycountymd.gov/dep/air/radon) or [www.epa.gov/radon](http://www.epa.gov/radon).

KCI visited the site on 2/11/2020 and deployed two (2) 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.

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

1. Rooms with missing test kits from the December 2019 testing period (i.e. test kit was deployed but not recovered),

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2. Rooms with invalidated test kits from the December 2019 testing period (e.g. an open window in the room or disturbed test kit),
  3. Rooms which were locked/inaccessible during the December 2019 testing period,
  4. Rooms with elevated December 2019 results (i.e.  $\geq 3.5$  pCi/L),
  5. Rooms previously tested for radon but not tested in December 2019, and
  6. Additional rooms that require testing (if applicable.)

A floor plan map of the building with the test locations is included as Appendix 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, Inc. prior to being returned to the laboratory for analysis.

KCI returned to the site on 2/14/2020 to retrieve the radon sampling test kits. KCI shipped all radon tests via overnight delivery to Aircheck, Inc. for analysis by gamma-ray spectroscopy. Aircheck, 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 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.

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-20s to the upper-40s; and high temperatures ranged from the lower-40s to the upper-50s. Maximum sustained winds ranged from 14-24 miles per hour. Average humidity was approximately 74%. A total of 1.32 inches of rain were recorded during the testing period. The weather conditions during the testing period may have resulted in atypical radon test results for this facility.

**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). Follow-up 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	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 410-316-7800.

Sincerely,

Mr. Tyler P. McCleaf  
 Radon Measurement Provider  
 KCI Technologies, Inc.

Attachments:

A- Floor Plan with Test Locations

B - Tables 1-3, Radon Test Summary Spreadsheets

C- Laboratory Analytical Results

# ATTACHMENT A

## Floor Plan With Test Locations

### Floor Plan Legend

X-Sample Location (in red)

X- Previous Sample Location

1- Not Samled; No Ground Contact

2- Not Samled; Unoccupied (e.g. Storage, Mechanical)

3- Not Samled; High Humidity/Moisture

4- Not Samled; Bathroom/Hallway

# 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

Table 1- Radon Testing Results		
Farquhar Middle School		
Test Period: 02/11/20-02/14/20		
Kit Number	Room / Area	Result
9348564	29	< 0.3
9348502	OFFICE BLANK	< 0.3



Table 2- Radon Testing Results			
Farquhar Middle School			
Test Period: 02/11/20-02/14/20			
Kit Number	QC Type	Room / Area	Result
9348522	TRANSIT BLANK	NA	0.7
9341735	TRANSIT BLANK	NA	<0.3

# ATTACHMENT C

## Laboratory Analytical Results

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February 25, 2020

**\*\* LABORATORY ANALYSIS REPORT \*\***

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Radon test result report for:  
**FARQUHAR MS RT**  
**507**

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<b>Kit #</b>	<b>Room Id</b>	<b>Started</b>	<b>Ended</b>	<b>pCi/L</b>	<b>Analyzed</b>
9348564	029	2020-02-11 @ 1:00 pm	2020-02-14 @ 12:00 pm	< 0.3	2020-02-18

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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 194523

NOMINAL Conditions: Radon Conc 25.8 pCi/L Rel. Hum 49.8 % Temp. 70.2 F

Date Start: 2/21/20 Date Stop: 2/24/20 Date Start: \_\_\_\_\_ Date Stop: \_\_\_\_\_

Time Start: 0745 Time Stop: 0745 Time Start: \_\_\_\_\_ Time Stop: \_\_\_\_\_

Device No.'s: (9) Char Bags - Device No.'s: \_\_\_\_\_

9341725 thru 9341733

52 ceph

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  $\mu$ R/h Elevation = 820 ft

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
9341725	N/A	2020-02-21 @ 8:00 am	2020-02-24 @ 8:00 am	26.9 $\pm$ 1.6	2020-02-26
9341730	N/A	2020-02-21 @ 8:00 am	2020-02-24 @ 8:00 am	26.1 $\pm$ 1.6	2020-02-26
9341728	N/A	2020-02-21 @ 8:00 am	2020-02-24 @ 8:00 am	26.9 $\pm$ 1.6	2020-02-26
9341726	N/A	2020-02-21 @ 8:00 am	2020-02-24 @ 8:00 am	25.8 $\pm$ 1.5	2020-02-26
9341731	N/A	2020-02-21 @ 8:00 am	2020-02-24 @ 8:00 am	25.1 $\pm$ 1.5	2020-02-26
9341729	N/A	2020-02-21 @ 8:00 am	2020-02-24 @ 8:00 am	26.2 $\pm$ 1.6	2020-02-26
9341727	N/A	2020-02-21 @ 8:00 am	2020-02-24 @ 8:00 am	27.2 $\pm$ 1.6	2020-02-26
9341732	N/A	2020-02-21 @ 8:00 am	2020-02-24 @ 8:00 am	27.3 $\pm$ 1.6	2020-02-26



### Radon Test Kit Chain of Custody

Project Name: MCPS Radon 2019 Week 2

Name of Schools:

- |                       |                   |
|-----------------------|-------------------|
| 1. Argyle M.S.        | 6. Fallsmead E.S. |
| 2. Banneker M.S.      | 7. Farquhar M.S.  |
| 3. Bel Pre E.S.       | 8. Kennedy H.S.   |
| 4. Blake H.S.         | 9. Magruder H.S.  |
| 5. Briggs Chaney M.S. | 10. Wheaton H.S.  |

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	Date	Initials
Radon Test Kits Deployed	2/11/20	JM
Radon Test Kits Collected	2/14/20	JM
Radon Test Kits Shipped to Lab*	2/14/20	JM
Radon Test Kits Received by Lab*	2/17/20	JM

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



**MCPS RADON TESTING - EXECUTIVE SUMMARY**

Site Name	Farquhar Middle School
Date of Report	2/3/2020
Round of Testing	Initial Follow-up Post Remediation 2 year testing <b>5 year testing</b> HVAC Upgrade Window Replacement New Addition New Facility
# of Rooms Tested	58
# Rooms $\geq$ 4.0 pCi/L	1.3
Lowest Value	<0.3 pCi/L
Highest Value	1.3 pCi/L

**Project Status**

Current Project Status at this time: Testing Complete; missing/compromised tests to be sampled.



2/3/2020

Mr. Richard Cox, MS  
Environmental Team Leader  
Montgomery County Public Schools  
Division of Maintenance  
Gaithersburg, Maryland 20879

Re: Radon Testing Services

KCI Job #12146341126

**Location: Farquhar Middle School**

17017 Batchellors Forest Road  
Olney, Maryland 20832

Dear Mr. Cox:

KCI Technologies, Inc. (KCI) is pleased to submit the following report to Montgomery County Public Schools pursuant to completing a “short-term” 3-day radon test for the Farquhar Middle School, located at 17017 Batchellors Forest Road in Olney, Maryland 20832 (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 Provider (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/departments/facilities/maintenance/default.aspx?id=458858> or [www.epa.gov/radon](http://www.epa.gov/radon).

KCI visited the site on 12/17/2019 and deployed seventy-two (72) 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 Appendix A of this report.



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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 sixty (60) 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.

KCI returned to the site on 12/20/2019 to retrieve the radon sampling test kits. KCI shipped all radon tests via overnight delivery to Aircheck, Inc. for analysis by gamma-ray spectroscopy. Aircheck, Inc. is a National Radon Safety Board (NRSB) radon measurement provider and is a 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 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.

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 lower-20s and high temperatures were in the lower-40s. Maximum sustained winds ranged from 12-26 miles per hour. Average humidity was around 67%. 0.54 inches of precipitation (rain and snow) was recorded during the testing period.

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## **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:

<b>Radon Concentration</b>	<b>Room</b>	<b>Result</b>
≥4.0 pCi/L	None	N/A
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<b>Quality Control Samples</b>	
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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,

Mr. Tyler P. McCleaf  
Radon Measurement Provider  
111004 RT

KCI Technologies, Inc.

Attachments:

A- Floor Plan with Test Locations

B - Tables 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 Chek, Inc.

D- Duplicate

FB- Field Blank

KCI- KCI Technologies, Inc.

OB- Office Blank

PM- Project Manager

QC- Quality Control

Table 1- Radon Testing Results		
Farquhar Elementary School		
Test Period: 12/17/2019-12/20/2019		
Kit Number	Room / Area	Result
9340935	100E	< 0.3
9340936	100F	0.6
9340937	100E	< 0.3
9340938	100N WORKROOM	0.6
9340939	100M	< 0.3
9340940	100B PRINCIPAL	< 0.3
9340941	100D	0.7
9340942	100A ADMIN ASSISTANT	0.6
9340943	100N WORKROOM	0.6
9340944	MAIN OFFICE	< 0.3
9340945	159C	0.5
9340946	159C	< 0.3
9340947	160D	< 0.3
9340948	160C	0.5
9340949	159 HEALTH OFFICE	< 0.3
9340950	100I	< 0.3
9340951	100J	< 0.3
9340952	160E	< 0.3
9340953	100H	< 0.3
9340954	138A	< 0.3
9340955	138A	< 0.3
9340956	135	< 0.3
9340957	115	0.6
9340958	136	0.7
9340959	135	< 0.3
9340960	160F	0.7
9340961	137	1.1
9340962	160G	< 0.3
9340963	135A	< 0.3
9340964	101	< 0.3
9340965	139E	< 0.3
9340966	CAFETERIA	< 0.3
9340967	CAFETERIA	< 0.3
9340968	STAGE	0.6
9340969	129	< 0.3
9340970	141C	0.7
9340971	143C	0.7
9340972	142	< 0.3
9340973	STAGE	< 0.3
9340974	150	0.8
9340975	149	< 0.3
9340976	GYM	< 0.3
9340977	GYM	0.9
9340978	127	< 0.3
9340979	127	< 0.3
9340980	153	< 0.3
9340981	153	< 0.3
9340982	220	< 0.3
9340983	027B	1.3
9340984	30	< 0.3

9340985	33	< 0.3
9340986	15	0.7
9340987	12	< 0.3
9340988	10	0.6
9340989	6	< 0.3
9340990	7	< 0.3
9340991	9	< 0.3
9340992	18	0.5
9340993	29	MISSING
9340994	30	< 0.3
9340995	012A	< 0.3
9340996	11	0.7
9340997	20	0.8
9340998	3	< 0.3
9340999	3	< 0.3
9341000	4	0.6
9341383	18	< 0.3
9341384	029A	0.6
9341385	157	< 0.3
9341387	157	< 0.3
9341399	1	< 0.3
9341400	16	0.5
9341392	OFFICE BLANK	< 0.3

Table 2- Radon Testing Results			
Farquhar Middle School			
Test Period: 12/16/2019-12/19/2019			
Kit Number	QC Type	Room / Area	Result
9340938	D	100N WORKROOM	0.6
9340935	FB	100E	<0.3
9340946	D	159C	<0.3
9340956	D	135	<0.3
9340954	FB	138A	<0.3
9340973	D	STAGE	<0.3
9340979	D	127	<0.3
9340981	FB	153	<0.3
9340994	D	30	<0.3
9340998	FB	3	<0.3
9341383	D	18	<0.3
9341385	D	157	<0.3
9341377	TRANSIT BLANK	NA	0.5
9341379	TRANSIT BLANK	NA	< 0.3
9341380	TRANSIT BLANK	NA	< 0.3
9341398	TRANSIT BLANK	NA	< 0.3





# ATTACHMENT C

## Laboratory Analytical Results

Radon test result report for:**FARQUHAR MS  
MAIN**

Kit #	Room Id	Started	Ended	pCi/L	Analyzed
9341399	001	2019-12-17 @ 3:00 pm	2019-12-20 @ 10:00 am	< 0.3	2019-12-24
9340998	003	2019-12-17 @ 3:00 pm	2019-12-20 @ 10:00 am	< 0.3	2019-12-24
9340999	003	2019-12-17 @ 3:00 pm	2019-12-20 @ 10:00 am	< 0.3	2019-12-24
9341000	004	2019-12-17 @ 3:00 pm	2019-12-20 @ 10:00 am	0.6 ± 0.4	2019-12-24
9340989	006	2019-12-17 @ 3:00 pm	2019-12-20 @ 10:00 am	< 0.3	2019-12-24
9340990	007	2019-12-17 @ 3:00 pm	2019-12-20 @ 10:00 am	< 0.3	2019-12-24
9340991	009	2019-12-17 @ 3:00 pm	2019-12-20 @ 10:00 am	< 0.3	2019-12-24
9340988	010	2019-12-17 @ 3:00 pm	2019-12-20 @ 10:00 am	0.6 ± 0.4	2019-12-24
9340996	011	2019-12-17 @ 3:00 pm	2019-12-20 @ 10:00 am	0.7 ± 0.4	2019-12-24
9340987	012	2019-12-17 @ 3:00 pm	2019-12-20 @ 10:00 am	< 0.3	2019-12-24
9340995	012A	2019-12-17 @ 3:00 pm	2019-12-20 @ 10:00 am	< 0.3	2019-12-24
9340986	015	2019-12-17 @ 3:00 pm	2019-12-20 @ 10:00 am	0.7 ± 0.4	2019-12-24
9341400	016	2019-12-17 @ 3:00 pm	2019-12-20 @ 10:00 am	0.5 ± 0.4	2019-12-24
9340992	018	2019-12-17 @ 3:00 pm	2019-12-20 @ 10:00 am	0.5 ± 0.4	2019-12-24
9341383	018	2019-12-17 @ 3:00 pm	2019-12-20 @ 10:00 am	< 0.3	2019-12-24
9340997	020	2019-12-17 @ 3:00 pm	2019-12-20 @ 10:00 am	0.8 ± 0.4	2019-12-24
9340983	027B	2019-12-17 @ 3:00 pm	2019-12-20 @ 10:00 am	1.3 ± 0.4	2019-12-24
9341384	029A	2019-12-17 @ 3:00 pm	2019-12-20 @ 10:00 am	0.6 ± 0.3	2019-12-24
9340984	030	2019-12-17 @ 3:00 pm	2019-12-20 @ 10:00 am	< 0.3	2019-12-24
9340994	030	2019-12-17 @ 3:00 pm	2019-12-20 @ 10:00 am	< 0.3	2019-12-24
9340985	033	2019-12-17 @ 3:00 pm	2019-12-20 @ 10:00 am	< 0.3	2019-12-24
9340942	100A ADMIN ASSISTANT	2019-12-17 @ 1:00 pm	2019-12-20 @ 9:00 am	0.6 ± 0.4	2019-12-24
9340940	100B PRINCIPAL	2019-12-17 @ 1:00 pm	2019-12-20 @ 9:00 am	< 0.3	2019-12-24
9340941	100D	2019-12-17 @ 1:00 pm	2019-12-20 @ 9:00 am	0.7 ± 0.4	2019-12-24
9340937	100E	2019-12-17 @ 1:00 pm	2019-12-20 @ 9:00 am	< 0.3	2019-12-24
9340935	100E	2019-12-17 @ 1:00 pm	2019-12-20 @ 9:00 am	< 0.3	2019-12-24
9340936	100F	2019-12-17 @ 1:00 pm	2019-12-20 @ 9:00 am	0.6 ± 0.4	2019-12-24
9340953	100H	2019-12-17 @ 2:00 pm	2019-12-20 @ 9:00 am	< 0.3	2019-12-24
9340950	100I	2019-12-17 @ 2:00 pm	2019-12-20 @ 9:00 am	< 0.3	2019-12-24
9340951	100J	2019-12-17 @ 2:00 pm	2019-12-20 @ 9:00 am	< 0.3	2019-12-24
9340939	100M	2019-12-17 @ 1:00 pm	2019-12-20 @ 9:00 am	< 0.3	2019-12-24
9340938	100N WORKROOM	2019-12-17 @ 1:00 pm	2019-12-20 @ 9:00 am	0.6 ± 0.4	2019-12-24
9340943	100N WORKROOM	2019-12-17 @ 1:00 pm	2019-12-20 @ 9:00 am	0.6 ± 0.3	2019-12-24
9340964	101	2019-12-17 @ 2:00 pm	2019-12-20 @ 9:00 am	< 0.3	2019-12-24
9340957	115	2019-12-17 @ 2:00 pm	2019-12-20 @ 9:00 am	0.6 ± 0.3	2019-12-24
9340979	127	2019-12-17 @ 3:00 pm	2019-12-20 @ 10:00 am	< 0.3	2019-12-24
9340978	127	2019-12-17 @ 3:00 pm	2019-12-20 @ 10:00 am	< 0.3	2019-12-24

Radon test result report for:**FARQUHAR MS  
MAIN**

Kit #	Room Id	Started	Ended	pCi/L	Analyzed
9340969	129	2019-12-17 @ 2:00 pm	2019-12-20 @ 9:00 am	< 0.3	2019-12-24
9340956	135	2019-12-17 @ 2:00 pm	2019-12-20 @ 9:00 am	< 0.3	2019-12-24
9340959	135	2019-12-17 @ 2:00 pm	2019-12-20 @ 9:00 am	< 0.3	2019-12-24
9340963	135A	2019-12-17 @ 2:00 pm	2019-12-20 @ 9:00 am	< 0.3	2019-12-24
9340958	136	2019-12-17 @ 2:00 pm	2019-12-20 @ 10:00 am	0.7 ± 0.4	2019-12-24
9340961	137	2019-12-17 @ 2:00 pm	2019-12-20 @ 10:00 am	1.1 ± 0.4	2019-12-24
9340955	138A	2019-12-17 @ 2:00 pm	2019-12-20 @ 10:00 am	< 0.3	2019-12-24
9340954	138A	2019-12-17 @ 2:00 pm	2019-12-20 @ 10:00 am	< 0.3	2019-12-24
9340965	139E	2019-12-17 @ 2:00 pm	2019-12-20 @ 10:00 am	< 0.3	2019-12-24
9340970	141C	2019-12-17 @ 2:00 pm	2019-12-20 @ 10:00 am	0.7 ± 0.4	2019-12-24
9340972	142	2019-12-17 @ 2:00 pm	2019-12-20 @ 10:00 am	< 0.3	2019-12-24
9340971	143C	2019-12-17 @ 2:00 pm	2019-12-20 @ 10:00 am	0.7 ± 0.4	2019-12-24
9340975	149	2019-12-17 @ 2:00 pm	2019-12-20 @ 10:00 am	< 0.3	2019-12-24
9340974	150	2019-12-17 @ 2:00 pm	2019-12-20 @ 10:00 am	0.8 ± 0.4	2019-12-24
9340980	153	2019-12-17 @ 3:00 pm	2019-12-20 @ 10:00 am	< 0.3	2019-12-24
9340981	153	2019-12-17 @ 3:00 pm	2019-12-20 @ 10:00 am	< 0.3	2019-12-24
9341385	157	2019-12-17 @ 3:00 pm	2019-12-20 @ 9:00 am	< 0.3	2019-12-24
9341387	157	2019-12-17 @ 3:00 pm	2019-12-20 @ 9:00 am	< 0.3	2019-12-24
9340949	159 HEALTH OFFICE	2019-12-17 @ 2:00 pm	2019-12-20 @ 9:00 am	< 0.3	2019-12-24
9340945	159C	2019-12-17 @ 2:00 pm	2019-12-20 @ 9:00 am	0.5 ± 0.4	2019-12-24
9340946	159C	2019-12-17 @ 2:00 pm	2019-12-20 @ 9:00 am	< 0.3	2019-12-24
9340948	160C	2019-12-17 @ 2:00 pm	2019-12-20 @ 9:00 am	0.5 ± 0.3	2019-12-24
9340947	160D	2019-12-17 @ 2:00 pm	2019-12-20 @ 9:00 am	< 0.3	2019-12-24
9340952	160E	2019-12-17 @ 2:00 pm	2019-12-20 @ 9:00 am	< 0.3	2019-12-24
9340960	160F	2019-12-17 @ 2:00 pm	2019-12-20 @ 9:00 am	0.7 ± 0.4	2019-12-24
9340962	160G	2019-12-17 @ 2:00 pm	2019-12-20 @ 9:00 am	< 0.3	2019-12-24
9340982	220	2019-12-17 @ 3:00 pm	2019-12-20 @ 10:00 am	< 0.3	2019-12-24
9340967	CAFETERIA	2019-12-17 @ 2:00 pm	2019-12-20 @ 10:00 am	< 0.3	2019-12-24
9340966	CAFETERIA	2019-12-17 @ 2:00 pm	2019-12-20 @ 10:00 am	< 0.3	2019-12-24
9340977	GYM	2019-12-17 @ 2:00 pm	2019-12-20 @ 10:00 am	0.9 ± 0.4	2019-12-24
9340976	GYM	2019-12-17 @ 2:00 pm	2019-12-20 @ 10:00 am	< 0.3	2019-12-24
9340944	MAIN OFFICE	2019-12-17 @ 1:00 pm	2019-12-20 @ 9:00 am	< 0.3	2019-12-24
9340968	STAGE	2019-12-17 @ 2:00 pm	2019-12-20 @ 10:00 am	0.6 ± 0.3	2019-12-24
9340973	STAGE	2019-12-17 @ 2:00 pm	2019-12-20 @ 10:00 am	< 0.3	2019-12-24

# EXPOSURE IN BOWSER-MORNER RADON CHAMBER

CLIENT KCI Technologies Inc Job Number 193598

NOMINAL Conditions: Radon Conc \_\_\_\_\_ pCi/L Rel. Hum \_\_\_\_\_ % Temp. \_\_\_\_\_ F

Date Start: 12/21/19 Date Stop: 12/23/19

Time Start: 0815 Time Stop: 0815

(Group 1)  
Device No.'s: (20) Char. Bags-

9340001 thru 9340020

55

Date Start: 12/21/19 Date Stop: 12/23/19

Time Start: 0829 Time Stop: 0820

(Group 2)  
Device No.'s: (20) Char. Bags-

9340021 thru 9340040

54

Date Start: 12/21/19 Date Stop: 12/23/19

Time Start: 0825 Time Stop: 0825

(Group 3)  
Device No.'s: (20) Char. Bags-

9340041 thru 9340060

53

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

Temp °F 70.1  
RH % 50.1  
Avg pCi/L 25.4

Temp °F 70.1  
RH % 50.1  
Avg pCi/L 25.4

Temp °F 70.1  
RH % 50.1  
Avg pCi/L 25.4



### Radon Test Kit Chain of Custody

Project Name: MCPS Radon 2019 Week 2

Name of Schools:

- |                               |                     |
|-------------------------------|---------------------|
| 1. Argyle M.S.                | 13. Candelwood E.S. |
| 2. Banneker M.S.              | 14. Drew E.S.       |
| 3. Bel Pre E.S.               | 15. Fallsmead E.S.  |
| 4. Bells Mill E.S.            | 16. Farquhar M.S.   |
| 5. Bethesda Maintenance Depot | 17. Kennedy H.S.    |
| 6. Beverly Farms E.S.         | 18. Luxmanor E.S.   |
| 7. Blake H.S.                 | 19. Magruder H.S.   |
| 8. Dufief E.S.                | 20. Redland M.S.    |
| 9. Briggs Chaney M.S.         | 21. Shriver E.S.    |
| 10. Brookhaven E.S.           | 22. Smith Center    |
| 11. Burtonsville E.S.         | 23. Viers Mill E.S. |
| 12. Cabin John M.S.           | 24. Wheaton H.S.    |

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	Date	Initials
Radon Test Kits Deployed	12/16/19 to 12/17/19	
Radon Test Kits Collected	12/19/19 to 12/20/19	
Radon Test Kits Shipped to Lab*	12/20/19	
Radon Test Kits Received by Lab*	12/23/19	

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

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).
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Kit #	Room Id	Started	Ended	pCi/L	Analyzed
9340067	N/A	2019-12-21 @ 9:00 am	2019-12-23 @ 9:00 am	25.1 $\pm$ 2.4 D	2020-01-03
9340035	N/A	2019-12-21 @ 8:00 am	2019-12-23 @ 8:00 am	22.5 $\pm$ 2.3 D	2020-01-03
9340003	N/A	2019-12-21 @ 8:00 am	2019-12-23 @ 8:00 am	25.2 $\pm$ 2.4 D	2020-01-03
9340089	N/A	2019-12-21 @ 9:00 am	2019-12-23 @ 9:00 am	23.3 $\pm$ 2.3 D	2020-01-03
9340072	N/A	2019-12-21 @ 9:00 am	2019-12-23 @ 9:00 am	18.3 $\pm$ 2.0 D	2020-01-03
9340040	N/A	2019-12-21 @ 8:00 am	2019-12-23 @ 8:00 am	27.3 $\pm$ 2.6 D	2020-01-03
9340008	N/A	2019-12-21 @ 8:00 am	2019-12-23 @ 8:00 am	24.8 $\pm$ 2.5 D	2020-01-03
9340094	N/A	2019-12-21 @ 9:00 am	2019-12-23 @ 9:00 am	24.7 $\pm$ 2.5 D	2020-01-03
9340099	N/A	2019-12-21 @ 9:00 am	2019-12-23 @ 9:00 am	27.5 $\pm$ 2.6 D	2020-01-03
9340077	N/A	2019-12-21 @ 9:00 am	2019-12-23 @ 9:00 am	25.2 $\pm$ 2.5 D	2020-01-03
9340045	N/A	2019-12-21 @ 8:00 am	2019-12-23 @ 8:00 am	24.7 $\pm$ 2.4 D	2020-01-03
9340013	N/A	2019-12-21 @ 8:00 am	2019-12-23 @ 8:00 am	25.9 $\pm$ 2.6 D	2020-01-03
9340018	N/A	2019-12-21 @ 8:00 am	2019-12-23 @ 8:00 am	29.1 $\pm$ 2.8 D	2020-01-03
9341704	N/A	2019-12-21 @ 9:00 am	2019-12-23 @ 9:00 am	25.1 $\pm$ 2.4 D	2020-01-03
9340050	N/A	2019-12-21 @ 8:00 am	2019-12-23 @ 8:00 am	27.2 $\pm$ 2.6 D	2020-01-03
9340023	N/A	2019-12-21 @ 8:00 am	2019-12-23 @ 8:00 am	28.2 $\pm$ 2.7 D	2020-01-03
9341709	N/A	2019-12-21 @ 9:00 am	2019-12-23 @ 9:00 am	25.5 $\pm$ 2.4 D	2020-01-03
9340055	N/A	2019-12-21 @ 8:00 am	2019-12-23 @ 8:00 am	27.8 $\pm$ 2.6 D	2020-01-03
9340060	N/A	2019-12-21 @ 8:00 am	2019-12-23 @ 8:00 am	27.3 $\pm$ 2.5 D	2020-01-03
9340028	N/A	2019-12-21 @ 8:00 am	2019-12-23 @ 8:00 am	23.9 $\pm$ 2.3 D	2020-01-03
9341714	N/A	2019-12-21 @ 9:00 am	2019-12-23 @ 9:00 am	28.3 $\pm$ 2.7 D	2020-01-03
9340082	N/A	2019-12-21 @ 9:00 am	2019-12-23 @ 9:00 am	26.4 $\pm$ 2.6 D	2020-01-03
9340065	N/A	2019-12-21 @ 9:00 am	2019-12-23 @ 9:00 am	24.2 $\pm$ 2.4 D	2020-01-03
9340033	N/A	2019-12-21 @ 8:00 am	2019-12-23 @ 8:00 am	26.2 $\pm$ 2.5 D	2020-01-03
9341719	N/A	2019-12-21 @ 9:00 am	2019-12-23 @ 9:00 am	26.7 $\pm$ 2.5 D	2020-01-03
9340001	N/A	2019-12-21 @ 8:00 am	2019-12-23 @ 8:00 am	26.3 $\pm$ 2.5 D	2020-01-03
9340087	N/A	2019-12-21 @ 9:00 am	2019-12-23 @ 9:00 am	24.8 $\pm$ 2.4 D	2020-01-03
9340070	N/A	2019-12-21 @ 9:00 am	2019-12-23 @ 9:00 am	19.5 $\pm$ 2.4 D	2020-01-03
9340038	N/A	2019-12-21 @ 8:00 am	2019-12-23 @ 8:00 am	24.7 $\pm$ 2.3 D	2020-01-03
9340006	N/A	2019-12-21 @ 8:00 am	2019-12-23 @ 8:00 am	25.2 $\pm$ 2.4 D	2020-01-03
9340092	N/A	2019-12-21 @ 9:00 am	2019-12-23 @ 9:00 am	31.4 $\pm$ 2.8 D	2020-01-03
9340097	N/A	2019-12-21 @ 9:00 am	2019-12-23 @ 9:00 am	26.7 $\pm$ 2.5 D	2020-01-03
9340075	N/A	2019-12-21 @ 9:00 am	2019-12-23 @ 9:00 am	29.6 $\pm$ 2.6 D	2020-01-03
9340043	N/A	2019-12-21 @ 8:00 am	2019-12-23 @ 8:00 am	28.1 $\pm$ 2.6 D	2020-01-03
9340011	N/A	2019-12-21 @ 8:00 am	2019-12-23 @ 8:00 am	26.8 $\pm$ 2.5 D	2020-01-03
9340016	N/A	2019-12-21 @ 8:00 am	2019-12-23 @ 8:00 am	23.2 $\pm$ 2.4 D	2020-01-03
9341702	N/A	2019-12-21 @ 9:00 am	2019-12-23 @ 9:00 am	26.8 $\pm$ 2.5 D	2020-01-03

Radon test result report for:**S****N/A**

Kit #	Room Id	Started	Ended	pCi/L	Analyzed
9340048	N/A	2019-12-21 @ 8:00 am	2019-12-23 @ 8:00 am	25.5 ± 2.4 D	2020-01-03
9340021	N/A	2019-12-21 @ 8:00 am	2019-12-23 @ 8:00 am	26.7 ± 2.6 D	2020-01-03
9341707	N/A	2019-12-21 @ 9:00 am	2019-12-23 @ 9:00 am	25.8 ± 2.4 D	2020-01-03
9340053	N/A	2019-12-21 @ 8:00 am	2019-12-23 @ 8:00 am	25.8 ± 2.5 D	2020-01-03
9340058	N/A	2019-12-21 @ 8:00 am	2019-12-23 @ 8:00 am	28.5 ± 2.7 D	2020-01-03
9340026	N/A	2019-12-21 @ 8:00 am	2019-12-23 @ 8:00 am	25.9 ± 2.4 D	2020-01-03
9341712	N/A	2019-12-21 @ 9:00 am	2019-12-23 @ 9:00 am	24.3 ± 2.4 D	2020-01-03
9340080	N/A	2019-12-21 @ 9:00 am	2019-12-23 @ 9:00 am	25.1 ± 2.4 D	2020-01-03
9340063	N/A	2019-12-21 @ 9:00 am	2019-12-23 @ 9:00 am	25.8 ± 2.5 D	2020-01-03
9340031	N/A	2019-12-21 @ 8:00 am	2019-12-23 @ 8:00 am	24.9 ± 2.4 D	2020-01-03
9341717	N/A	2019-12-21 @ 9:00 am	2019-12-23 @ 9:00 am	25.7 ± 2.4 D	2020-01-03
9340085	N/A	2019-12-21 @ 9:00 am	2019-12-23 @ 9:00 am	26.9 ± 2.5 D	2020-01-03
9340068	N/A	2019-12-21 @ 9:00 am	2019-12-23 @ 9:00 am	26.2 ± 2.5 D	2020-01-03
9340036	N/A	2019-12-21 @ 8:00 am	2019-12-23 @ 8:00 am	23.6 ± 2.3 D	2020-01-03
9340004	N/A	2019-12-21 @ 8:00 am	2019-12-23 @ 8:00 am	26.9 ± 2.6 D	2020-01-03
9340090	N/A	2019-12-21 @ 9:00 am	2019-12-23 @ 9:00 am	26.3 ± 2.5 D	2020-01-03
9340073	N/A	2019-12-21 @ 9:00 am	2019-12-23 @ 9:00 am	26.8 ± 2.5 D	2020-01-03
9340041	N/A	2019-12-21 @ 8:00 am	2019-12-23 @ 8:00 am	25.6 ± 2.4 D	2020-01-03
9340009	N/A	2019-12-21 @ 8:00 am	2019-12-23 @ 8:00 am	24.1 ± 2.4 D	2020-01-03
9340095	N/A	2019-12-21 @ 9:00 am	2019-12-23 @ 9:00 am	25.2 ± 2.5 D	2020-01-03
9340100	N/A	2019-12-21 @ 9:00 am	2019-12-23 @ 9:00 am	24.5 ± 2.4 D	2020-01-03
9340078	N/A	2019-12-21 @ 9:00 am	2019-12-23 @ 9:00 am	25.0 ± 2.4 D	2020-01-03
9340046	N/A	2019-12-21 @ 8:00 am	2019-12-23 @ 8:00 am	28.0 ± 2.6 D	2020-01-03
9340014	N/A	2019-12-21 @ 8:00 am	2019-12-23 @ 8:00 am	21.8 ± 2.8 D	2020-01-03
9340019	N/A	2019-12-21 @ 8:00 am	2019-12-23 @ 8:00 am	26.0 ± 2.5 D	2020-01-03
9341705	N/A	2019-12-21 @ 9:00 am	2019-12-23 @ 9:00 am	27.8 ± 2.6 D	2020-01-03
9340051	N/A	2019-12-21 @ 8:00 am	2019-12-23 @ 8:00 am	25.5 ± 2.4 D	2020-01-03
9340056	N/A	2019-12-21 @ 8:00 am	2019-12-23 @ 8:00 am	27.7 ± 2.6 D	2020-01-03
9340024	N/A	2019-12-21 @ 8:00 am	2019-12-23 @ 8:00 am	28.3 ± 2.5 D	2020-01-03
9341710	N/A	2019-12-21 @ 9:00 am	2019-12-23 @ 9:00 am	24.2 ± 2.3 D	2020-01-03
9340061	N/A	2019-12-21 @ 9:00 am	2019-12-23 @ 9:00 am	28.9 ± 2.6 D	2020-01-03
9340029	N/A	2019-12-21 @ 8:00 am	2019-12-23 @ 8:00 am	23.0 ± 2.3 D	2020-01-03
9341715	N/A	2019-12-21 @ 9:00 am	2019-12-23 @ 9:00 am	27.0 ± 2.5 D	2020-01-03
9340083	N/A	2019-12-21 @ 9:00 am	2019-12-23 @ 9:00 am	24.9 ± 2.4 D	2020-01-03
9340066	N/A	2019-12-21 @ 9:00 am	2019-12-23 @ 9:00 am	25.1 ± 2.4 D	2020-01-03
9340034	N/A	2019-12-21 @ 8:00 am	2019-12-23 @ 8:00 am	26.4 ± 2.5 D	2020-01-03
9341720	N/A	2019-12-21 @ 9:00 am	2019-12-23 @ 9:00 am	25.3 ± 2.5 D	2020-01-03



Radon test result report for:**S****N/A**

Kit #	Room Id	Started	Ended	pCi/L	Analyzed
9340002	N/A	2019-12-21 @ 8:00 am	2019-12-23 @ 8:00 am	25.7 ± 2.5 D	2020-01-03
9340088	N/A	2019-12-21 @ 9:00 am	2019-12-23 @ 9:00 am	26.4 ± 2.5 D	2020-01-03
9340071	N/A	2019-12-21 @ 9:00 am	2019-12-23 @ 9:00 am	24.9 ± 2.4 D	2020-01-03
9340039	N/A	2019-12-21 @ 8:00 am	2019-12-23 @ 8:00 am	26.9 ± 2.5 D	2020-01-03
9340007	N/A	2019-12-21 @ 8:00 am	2019-12-23 @ 8:00 am	26.9 ± 2.4 D	2020-01-03
9340093	N/A	2019-12-21 @ 9:00 am	2019-12-23 @ 9:00 am	25.1 ± 2.5 D	2020-01-03
9340098	N/A	2019-12-21 @ 9:00 am	2019-12-23 @ 9:00 am	26.8 ± 2.5 D	2020-01-03
9340076	N/A	2019-12-21 @ 9:00 am	2019-12-23 @ 9:00 am	25.1 ± 2.5 D	2020-01-03
9340044	N/A	2019-12-21 @ 8:00 am	2019-12-23 @ 8:00 am	25.2 ± 2.5 D	2020-01-03
9340012	N/A	2019-12-21 @ 8:00 am	2019-12-23 @ 8:00 am	22.5 ± 2.2 D	2020-01-03
9340017	N/A	2019-12-21 @ 8:00 am	2019-12-23 @ 8:00 am	25.3 ± 2.5 D	2020-01-03
9341703	N/A	2019-12-21 @ 9:00 am	2019-12-23 @ 9:00 am	26.0 ± 2.5 D	2020-01-03
9340049	N/A	2019-12-21 @ 8:00 am	2019-12-23 @ 8:00 am	26.0 ± 2.5 D	2020-01-03
9340022	N/A	2019-12-21 @ 8:00 am	2019-12-23 @ 8:00 am	28.6 ± 2.6 D	2020-01-03
9341708	N/A	2019-12-21 @ 9:00 am	2019-12-23 @ 9:00 am	28.8 ± 2.8 D	2020-01-03
9340054	N/A	2019-12-21 @ 8:00 am	2019-12-23 @ 8:00 am	26.8 ± 2.5 D	2020-01-03
9340059	N/A	2019-12-21 @ 8:00 am	2019-12-23 @ 8:00 am	26.5 ± 2.6 D	2020-01-03
9340027	N/A	2019-12-21 @ 8:00 am	2019-12-23 @ 8:00 am	26.6 ± 2.5 D	2020-01-03
9341713	N/A	2019-12-21 @ 9:00 am	2019-12-23 @ 9:00 am	26.5 ± 2.5 D	2020-01-03
9340081	N/A	2019-12-21 @ 9:00 am	2019-12-23 @ 9:00 am	18.4 ± 2.1 D	2020-01-03
9340064	N/A	2019-12-21 @ 9:00 am	2019-12-23 @ 9:00 am	26.5 ± 2.5 D	2020-01-03
9340032	N/A	2019-12-21 @ 8:00 am	2019-12-23 @ 8:00 am	26.1 ± 2.4 D	2020-01-03
9341718	N/A	2019-12-21 @ 9:00 am	2019-12-23 @ 9:00 am	23.7 ± 2.4 D	2020-01-03
9340086	N/A	2019-12-21 @ 9:00 am	2019-12-23 @ 9:00 am	26.9 ± 2.6 D	2020-01-03
9340069	N/A	2019-12-21 @ 9:00 am	2019-12-23 @ 9:00 am	25.6 ± 2.5 D	2020-01-03
9340037	N/A	2019-12-21 @ 8:00 am	2019-12-23 @ 8:00 am	28.4 ± 2.6 D	2020-01-03
9340005	N/A	2019-12-21 @ 8:00 am	2019-12-23 @ 8:00 am	???? DIF1	2020-01-03
9340091	N/A	2019-12-21 @ 9:00 am	2019-12-23 @ 9:00 am	26.5 ± 2.5 D	2020-01-03
9340096	N/A	2019-12-21 @ 9:00 am	2019-12-23 @ 9:00 am	26.2 ± 2.5 D	2020-01-03
9340074	N/A	2019-12-21 @ 9:00 am	2019-12-23 @ 9:00 am	27.7 ± 2.5 D	2020-01-03
9340042	N/A	2019-12-21 @ 8:00 am	2019-12-23 @ 8:00 am	26.6 ± 2.5 D	2020-01-03
9340010	N/A	2019-12-21 @ 8:00 am	2019-12-23 @ 8:00 am	27.5 ± 2.5 D	2020-01-03
9341701	N/A	2019-12-21 @ 9:00 am	2019-12-23 @ 9:00 am	22.9 ± 2.3 D	2020-01-03
9340047	N/A	2019-12-21 @ 8:00 am	2019-12-23 @ 8:00 am	26.7 ± 2.5 D	2020-01-03
9340015	N/A	2019-12-21 @ 8:00 am	2019-12-23 @ 8:00 am	25.4 ± 2.5 D	2020-01-03
9340020	N/A	2019-12-21 @ 8:00 am	2019-12-23 @ 8:00 am	24.1 ± 2.4 D	2020-01-03
9341706	N/A	2019-12-21 @ 9:00 am	2019-12-23 @ 9:00 am	31.0 ± 2.7 D	2020-01-03

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January 3, 2020

**\*\* LABORATORY ANALYSIS REPORT \*\***

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Radon test result report for:

**S**

**N/A**

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<b>Kit #</b>	<b>Room Id</b>	<b>Started</b>	<b>Ended</b>	<b>pCi/L</b>	<b>Analyzed</b>
9340052	N/A	2019-12-21 @ 8:00 am	2019-12-23 @ 8:00 am	27.4 ± 2.6 D	2020-01-03
9340057	N/A	2019-12-21 @ 8:00 am	2019-12-23 @ 8:00 am	27.3 ± 2.5 D	2020-01-03
9340025	N/A	2019-12-21 @ 8:00 am	2019-12-23 @ 8:00 am	25.1 ± 2.4 D	2020-01-03
9341711	N/A	2019-12-21 @ 9:00 am	2019-12-23 @ 9:00 am	22.5 ± 2.2 D	2020-01-03
9340079	N/A	2019-12-21 @ 9:00 am	2019-12-23 @ 9:00 am	26.9 ± 2.5 D	2020-01-03
9340062	N/A	2019-12-21 @ 9:00 am	2019-12-23 @ 9:00 am	25.6 ± 2.5 D	2020-01-03
9340030	N/A	2019-12-21 @ 8:00 am	2019-12-23 @ 8:00 am	25.0 ± 2.4 D	2020-01-03
9341716	N/A	2019-12-21 @ 9:00 am	2019-12-23 @ 9:00 am	25.1 ± 2.4 D	2020-01-03
9340084	N/A	2019-12-21 @ 9:00 am	2019-12-23 @ 9:00 am	24.5 ± 2.3 D	2020-01-03

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



### MCPS RADON TESTING

Executive Summary: William H. Farquhar Middle School

Date of Test Report:	10/19/2016
Round of Testing:	Initial Follow-up Post Remediation
# Rooms Tested:	54
# Rooms $\geq$ 4.0 pCi/L:	0
Low Value:	< 0.3
High Value:	2.1

Project Status:

Initial testing completed; no further action at this time.



October 19, 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 # 12146341.54

Location: William H. Farquhar Middle School  
16915 Batchellors Forest Road  
Olney, MD 20832

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 William H. Farquhar Middle School, located at 16915 Batchellors Forest Road in Olney, Maryland 20832 (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](http://www.montgomerycountymd.gov/dep/air/radon) or [www.epa.gov/radon](http://www.epa.gov/radon).

KCI visited the site on September 27, 2016 and deployed sixty-eight (68) 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 September 30, 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:**

These tests represent:

- Initial testing of a newly constructed facility.

To expedite the testing, tests were conducted in September as soon as students and staff returned to:

- Determine if the newly constructed facility needs a mitigation system.

Future periodic testing should be conducted during the heating season in ideal conditions as described below. 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 cooling mode; therefore, KCI concludes that this test was not conducted during ideal testing conditions.

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.

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 50s and high temperatures in the mid-60s to mid-70s. Maximum sustained winds ranged from 3-15 miles per hour. Average humidity ranged from 71 to 89 percent. Rain (1.83 inches in Gaithersburg, MD) was recorded on 9/29/16. The weather conditions during the testing period may have resulted in atypical radon test results for this facility.

### **Results:**

The results of the radon test analysis indicated the following:

<b>Radon Concentration</b>	<b>Room</b>	<b>Result</b>
<b>≥4.0 pCi/L</b>	none	n/a
<b>&lt;4.0 pCi/L</b>	See Attachment B	

Notes:

D- Duplicate sample

The field blanks, office blanks, 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,



James M. Mouldale  
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



<b>Radon Testing Results</b>		
<b>Farquhar Middle School</b>		
<b>Test Period: 09/27/16-09/30/16</b>		
<b>Kit Number</b>	<b>Room / Area</b>	<b>Result</b>
7802540	1	< 0.3
7802549	3	< 0.3
7802562	4	0.5
7802559	6	0.5
7802558	7	0.7
7802555	9	0.9
7802554	10	< 0.3
7802553	11	0.8
7802556	12	0.6
7802547	15	0.7
7802548	16	1.8
7802557	18	0.7
7802563	20	0.6
7802568	29	0.9
7802571	30	0.5
7802566	33	0.7
7802508	100	< 0.3
7802544	101	< 0.3
7802543	111	< 0.3
7802404	136	< 0.3
7802575	137	< 0.3
7802434	140	< 0.3
7802479	140	< 0.3
7802452	140	< 0.3
7801872	140	< 0.3
7802496	142	< 0.3
7802474	148	< 0.3
7802501	148	< 0.3
7802546	148	< 0.3
7802473	148	< 0.3
7802545	149	< 0.3
7802539	150	< 0.3
7802565	153	0.6
7802531	157	< 0.3
7802541	159	0.6
7802527	201	< 0.3
7802551	233	< 0.3
7802550	012A	0.5
7802564	027B	0.8
7802561	029A	0.9
7802507	100A	0.8
7802569	100B	0.6
7802570	100D	< 0.3
7802533	100E	< 0.3
7802521	100F	< 0.3
7802528	100G	< 0.3

Table Note:

\* Missing or Compromised Sample

<b>Radon Testing Results</b>		
<b>Farquhar Middle School</b>		
<b>Test Period: 09/27/16-09/30/16</b>		
<b>Kit Number</b>	<b>Room / Area</b>	<b>Result</b>
7802522	100H	0.7
7802526	100I	2.1
7802537	100J	0.6
7802530	100M	< 0.3
7802524	100N	< 0.3
7802573	138A	< 0.3
7802572	139E	< 0.3
7802461	141B	< 0.3
7802536	159C	< 0.3
7802523	160C	0.8
7802534	160D	0.7
7802535	160E	< 0.3
7802525	160F	< 0.3
7802529	160G	< 0.3

Table Note:

\* Missing or Compromised Sample

<b>Radon Testing Results</b>		
<b>Farquhar Middle School</b>		
<b>Test Period: 09/27/16-09/30/16</b>		
<b>Kit Number</b>	<b>QC Type</b>	<b>Result</b>
7802552	D (012A)	0.6
7802567	D (1)	< 0.3
7802532	D (100H)	1.0
7802560	D (101)	< 0.3
7802403	D (136)	< 0.3
7802538	D (157)	< 0.3
7802542	FB (100J)	< 0.3
7802574	FB (138A)	< 0.3

Table Note:

\* Missing or Compromised Sample

# ATTACHMENT C

## Laboratory Analytical Results

Radon test result report for:

**FARQUHAR MIDDLE SCHOOL  
MAIN**

Kit #	Room Id	Started	Ended	pCi/L	Analyzed
7802552	012A	2016-09-27 @ 7:00 am	2016-09-30 @ 7:00 am	0.6 ± 0.2	2016-10-03
7802550	012A	2016-09-27 @ 7:00 am	2016-09-30 @ 7:00 am	0.5 ± 0.3	2016-10-03
7802564	027B	2016-09-27 @ 6:00 am	2016-09-30 @ 7:00 am	0.8 ± 0.2	2016-10-03
7802561	029A	2016-09-27 @ 7:00 am	2016-09-30 @ 7:00 am	0.9 ± 0.3	2016-10-03
7802540	1	2016-09-27 @ 6:00 am	2016-09-30 @ 7:00 am	< 0.3	2016-10-03
7802567	1	2016-09-27 @ 6:00 am	2016-09-30 @ 7:00 am	< 0.3	2016-10-03
7802554	10	2016-09-27 @ 7:00 am	2016-09-30 @ 7:00 am	< 0.3	2016-10-03
7802508	100	2016-09-27 @ 7:00 am	2016-09-30 @ 8:00 am	< 0.3	2016-10-03
7802507	100A	2016-09-27 @ 7:00 am	2016-09-30 @ 8:00 am	0.8 ± 0.2	2016-10-03
7802569	100B	2016-09-27 @ 7:00 am	2016-09-30 @ 8:00 am	0.6 ± 0.2	2016-10-03
7802570	100D	2016-09-27 @ 7:00 am	2016-09-30 @ 8:00 am	< 0.3	2016-10-03
7802533	100E	2016-09-27 @ 7:00 am	2016-09-30 @ 8:00 am	< 0.3	2016-10-03
7802521	100F	2016-09-27 @ 7:00 am	2016-09-30 @ 8:00 am	< 0.3	2016-10-03
7802528	100G	2016-09-27 @ 7:00 am	2016-09-30 @ 8:00 am	< 0.3	2016-10-03
7802532	100H	2016-09-27 @ 7:00 am	2016-09-30 @ 8:00 am	1.0 ± 0.3	2016-10-03
7802522	100H	2016-09-27 @ 7:00 am	2016-09-30 @ 8:00 am	0.7 ± 0.2	2016-10-03
7802526	100I	2016-09-27 @ 7:00 am	2016-09-30 @ 8:00 am	2.1 ± 0.3	2016-10-03
7802542	100J	2016-09-27 @ 7:00 am	2016-09-30 @ 8:00 am	< 0.3	2016-10-03
7802537	100J	2016-09-27 @ 7:00 am	2016-09-30 @ 8:00 am	0.6 ± 0.2	2016-10-03
7802530	100M	2016-09-27 @ 7:00 am	2016-09-30 @ 8:00 am	< 0.3	2016-10-03
7802524	100N	2016-09-27 @ 7:00 am	2016-09-30 @ 8:00 am	< 0.3	2016-10-03
7802544	101	2016-09-27 @ 7:00 am	2016-09-30 @ 7:00 am	< 0.3	2016-10-03
7802560	101	2016-09-27 @ 7:00 am	2016-09-30 @ 7:00 am	< 0.3	2016-10-03
7802553	11	2016-09-27 @ 7:00 am	2016-09-30 @ 7:00 am	0.8 ± 0.2	2016-10-03
7802543	111	2016-09-27 @ 7:00 am	2016-09-30 @ 7:00 am	< 0.3	2016-10-03
7802556	12	2016-09-27 @ 7:00 am	2016-09-30 @ 7:00 am	0.6 ± 0.2	2016-10-03
7802403	136	2016-09-27 @ 9:00 am	2016-09-30 @ 8:00 am	< 0.3	2016-10-03
7802404	136	2016-09-27 @ 9:00 am	2016-09-30 @ 8:00 am	< 0.3	2016-10-03
7802575	137	2016-09-27 @ 9:00 am	2016-09-30 @ 8:00 am	< 0.3	2016-10-03
7802573	138A	2016-09-27 @ 9:00 am	2016-09-30 @ 7:00 am	< 0.3	2016-10-03
7802574	138A	2016-09-27 @ 9:00 am	2016-09-30 @ 7:00 am	< 0.3	2016-10-03
7802572	139E	2016-09-27 @ 9:00 am	2016-09-30 @ 8:00 am	< 0.3	2016-10-03
7801872	140	2016-09-27 @ 9:00 am	2016-09-30 @ 7:00 am	< 0.3	2016-10-03
7802479	140	2016-09-27 @ 9:00 am	2016-09-30 @ 7:00 am	< 0.3	2016-10-03
7802434	140	2016-09-27 @ 9:00 am	2016-09-30 @ 7:00 am	< 0.3	2016-10-03
7802452	140	2016-09-27 @ 9:00 am	2016-09-30 @ 7:00 am	< 0.3	2016-10-03
7802461	141B	2016-09-27 @ 8:00 am	2016-09-30 @ 8:00 am	< 0.3	2016-10-03

October 7, 2016

**\*\* LABORATORY ANALYSIS REPORT \*\***

Radon test result report for:

**MCPS Radon**

**Phase 18 Office Blanks**

<b>Kit #</b>	<b>Room Id</b>	<b>Started</b>	<b>Ended</b>	<b>pCi/L</b>	<b>Analyzed</b>
7802697	1	2016-09-26 @ 11:00 am	2016-09-29 @ 11:00 am	< 0.3	2016-10-03
7801899	10	2016-09-26 @ 11:00 am	2016-09-29 @ 11:00 am	< 0.3	2016-10-03
7802932	11	2016-09-26 @ 11:00 am	2016-09-29 @ 11:00 am	< 0.3	2016-10-03
7802935	12	2016-09-26 @ 11:00 am	2016-09-29 @ 11:00 am	< 0.3	2016-10-03
7802915	13	2016-09-26 @ 11:00 am	2016-09-29 @ 11:00 am	< 0.3	2016-10-03
7802941	2	2016-09-26 @ 11:00 am	2016-09-29 @ 11:00 am	< 0.3	2016-10-03
7802942	3	2016-09-26 @ 11:00 am	2016-09-29 @ 11:00 am	< 0.3	2016-10-03
7802919	4	2016-09-26 @ 11:00 am	2016-09-29 @ 11:00 am	< 0.3	2016-10-03
7802918	5	2016-09-26 @ 11:00 am	2016-09-29 @ 11:00 am	< 0.3	2016-10-03
7802917	6	2016-09-26 @ 11:00 am	2016-09-29 @ 11:00 am	< 0.3	2016-10-03
7802916	7	2016-09-26 @ 11:00 am	2016-09-29 @ 11:00 am	< 0.3	2016-10-03
7802952	8	2016-09-26 @ 11:00 am	2016-09-29 @ 11:00 am	< 0.3	2016-10-03
7802928	9	2016-09-26 @ 11:00 am	2016-09-29 @ 11:00 am	< 0.3	2016-10-03

Radon test result report for:

**MCPS Radon****Phase 18 Transit Blanks**

<b>Kit #</b>	<b>Room Id</b>	<b>Started</b>	<b>Ended</b>	<b>pCi/L</b>	<b>Analyzed</b>
7714274	1	2016-09-26 @ 10:00 am	2016-09-29 @ 10:00 am	< 0.3	2016-10-03
7802962	10	2016-09-26 @ 10:00 am	2016-09-29 @ 10:00 am	< 0.3	2016-10-03
7714295	11	2016-09-26 @ 10:00 am	2016-09-29 @ 10:00 am	< 0.3	2016-10-03
7714299	12	2016-09-26 @ 10:00 am	2016-09-29 @ 10:00 am	< 0.3	2016-10-03
7714273	13	2016-09-26 @ 10:00 am	2016-09-29 @ 10:00 am	< 0.3	2016-10-03
7714270	14	2016-09-26 @ 10:00 am	2016-09-29 @ 10:00 am	< 0.3	2016-10-03
7802965	2	2016-09-26 @ 10:00 am	2016-09-29 @ 10:00 am	< 0.3	2016-10-03
7802696	3	2016-09-26 @ 10:00 am	2016-09-29 @ 10:00 am	< 0.3	2016-10-03
7802690	4	2016-09-26 @ 10:00 am	2016-09-29 @ 10:00 am	< 0.3	2016-10-03
7714275	5	2016-09-26 @ 10:00 am	2016-09-29 @ 10:00 am	< 0.3	2016-10-03
7714298	6	2016-09-26 @ 10:00 am	2016-09-29 @ 10:00 am	< 0.3	2016-10-03
7802990	7	2016-09-26 @ 10:00 am	2016-09-29 @ 10:00 am	< 0.3	2016-10-03
7802974	8	2016-09-26 @ 10:00 am	2016-09-29 @ 10:00 am	< 0.3	2016-10-03
7802694	9	2016-09-26 @ 10:00 am	2016-09-29 @ 10:00 am	< 0.3	2016-10-03

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October 12, 2016

**\*\* LABORATORY ANALYSIS REPORT \*\***

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Radon test result report for:  
**MCPS Radon  
Spike Sample Results**

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<b>Kit #</b>	<b>Room Id</b>	<b>Started</b>	<b>Ended</b>	<b>pCi/L</b>	<b>Analyzed</b>
7769880	101	2016-09-24 @ 8:00 am	2016-09-26 @ 8:00 am	22.9 ± 1.0	2016-09-28
7769884	102	2016-09-24 @ 8:00 am	2016-09-26 @ 8:00 am	22.4 ± 1.0	2016-09-28
7769885	103	2016-09-24 @ 8:00 am	2016-09-26 @ 8:00 am	23.0 ± 1.0	2016-09-28
7769890	104	2016-09-24 @ 8:00 am	2016-09-26 @ 8:00 am	22.3 ± 1.0	2016-09-28
7769891	105	2016-09-24 @ 8:00 am	2016-09-26 @ 8:00 am	26.8 ± 1.2	2016-09-28
7769899	106	2016-09-24 @ 8:00 am	2016-09-26 @ 8:00 am	24.1 ± 1.1	2016-09-28

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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 176788

NOMINAL Conditions: Radon Conc 26.1 pCi/L Rel. Hum 49.6 % Temp. 70.0 F

Date Start: 9/24/16 Date Stop: 9/26/16 Date Start: \_\_\_\_\_ Date Stop: \_\_\_\_\_

Time Start: 0758 Time Stop: 0758 Time Start: \_\_\_\_\_ Time Stop: \_\_\_\_\_

Device No.'s: (6) Char. Bags - Device No.'s: \_\_\_\_\_

7769899, 7769884, 7769885, \_\_\_\_\_

7769889, 7769890, 7769891 \_\_\_\_\_

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  $\mu$ R/h Elevation = 820 ft**



## Radon Test Kit Chain of Custody

Project Name: MCPS Radon Phase 18

Name of Schools:

1. Wood Acres Elementary School
2. Walt Whitman High School
3. Burning Tree Elementary School
4. Ashburton Elementary School
5. Bethesda Maintenance
6. Bethesda Transportation
7. Herbert Hoover Middle School
8. Cold Spring Elementary School
9. Garret Park Elementary School
10. Rock View Elementary School
11. Francis Scott Key Middle School
12. Montgomery Blair High School
13. Stephen Knolls School
14. Lourie Center
15. Shriver Elementary School
16. Viers Mill Elementary School
17. Highland Elementary School
18. Newport Middle School
19. Albert Einstein High School
20. Sligo Middle School
21. East Silver Spring Elementary School
22. Oak View Elementary School
23. Roscoe Nix Elementary School
24. Northwood High School
25. Springbrook High School
26. John F. Kennedy High School

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	Date	Initials
Radon Test Kits Deployed	9/26/16	JM
Radon Test Kits Collected	9/29/16	JM
Radon Test Kits Shipped to Lab*	9/30/16	JM
Radon Test Kits Received by Lab*	10/03/16	JM

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



## Radon Test Kit Chain of Custody

Project Name: MCPS Radon Phase 18

Name of Schools:

1. Damascus High School
2. Cedar Grove Elementary School
3. Hallie Wells Middle School
4. Clarksburg Elementary School
5. Clarksburg High School
6. Woodlin Elementary School
7. Flora Singer Elementary School
8. Spring Mill Center
9. Dr. Charles Drew Elementary School
10. William Farquah Middle School
11. Rosa Parks Middle School
12. Blair Ewing Center
13. Lathrop Smith Environmental Center
14. Sequoyah Elementary School
15. Shady Grove Middle School
16. Captain James Daly Elementary School
17. Watkins Mills High School
18. Forest Oak Middle School
19. Gaithersburg Middle School
20. Emory Grove
21. Fields Road Elementary School
22. Beall Elementary School
23. Julius West Middle School
24. Thomas Wootton High School
25. Robert Frost High School
26. Travilah Elementary School
27. Jones Lane Elementary School
28. Longview School
29. Rock Terrace High School
30. Germantown Elementary School
31. Lake Seneca Elementary School

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	Date	Initials
Radon Test Kits Deployed	9/27/16	JM
Radon Test Kits Collected	9/30/16	JM
Radon Test Kits Shipped to Lab*	9/30/16	JM
Radon Test Kits Received by Lab*	10/03/16	JM

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

Radon test result report for:

**FARQUHAR MIDDLE SCHOOL  
MAIN**

Kit #	Room Id	Started	Ended	pCi/L	Analyzed
7802496	142	2016-09-27 @ 8:00 am	2016-09-30 @ 8:00 am	< 0.3	2016-10-03
7802546	148	2016-09-27 @ 8:00 am	2016-09-30 @ 7:00 am	< 0.3	2016-10-03
7802473	148	2016-09-27 @ 8:00 am	2016-09-30 @ 7:00 am	< 0.3	2016-10-03
7802474	148	2016-09-27 @ 8:00 am	2016-09-30 @ 7:00 am	< 0.3	2016-10-03
7802501	148	2016-09-27 @ 8:00 am	2016-09-30 @ 7:00 am	< 0.3	2016-10-03
7802545	149	2016-09-27 @ 8:00 am	2016-09-30 @ 7:00 am	< 0.3	2016-10-03
7802547	15	2016-09-27 @ 7:00 am	2016-09-30 @ 7:00 am	0.7 ± 0.2	2016-10-03
7802539	150	2016-09-27 @ 8:00 am	2016-09-30 @ 7:00 am	< 0.3	2016-10-03
7802565	153	2016-09-27 @ 8:00 am	2016-09-30 @ 7:00 am	0.6 ± 0.2	2016-10-03
7802531	157	2016-09-27 @ 8:00 am	2016-09-30 @ 8:00 am	< 0.3	2016-10-03
7802538	157	2016-09-27 @ 8:00 am	2016-09-30 @ 8:00 am	< 0.3	2016-10-03
7802541	159	2016-09-27 @ 8:00 am	2016-09-30 @ 8:00 am	0.6 ± 0.2	2016-10-03
7802536	159C	2016-09-27 @ 8:00 am	2016-09-30 @ 8:00 am	< 0.3	2016-10-03
7802548	16	2016-09-27 @ 7:00 am	2016-09-30 @ 7:00 am	1.8 ± 0.3	2016-10-03
7802523	160C	2016-09-27 @ 8:00 am	2016-09-30 @ 8:00 am	0.8 ± 0.2	2016-10-03
7802534	160D	2016-09-27 @ 8:00 am	2016-09-30 @ 8:00 am	0.7 ± 0.2	2016-10-03
7802535	160E	2016-09-27 @ 8:00 am	2016-09-30 @ 8:00 am	< 0.3	2016-10-03
7802525	160F	2016-09-27 @ 8:00 am	2016-09-30 @ 8:00 am	< 0.3	2016-10-03
7802529	160G	2016-09-27 @ 8:00 am	2016-09-30 @ 8:00 am	< 0.3	2016-10-03
7802557	18	2016-09-27 @ 7:00 am	2016-09-30 @ 7:00 am	0.7 ± 0.2	2016-10-03
7802563	20	2016-09-27 @ 7:00 am	2016-09-30 @ 7:00 am	0.6 ± 0.2	2016-10-03
7802527	201	2016-09-27 @ 8:00 am	2016-09-30 @ 7:00 am	< 0.3	2016-10-03
7802551	233	2016-09-27 @ 8:00 am	2016-09-30 @ 7:00 am	< 0.3	2016-10-03
7802568	29	2016-09-27 @ 7:00 am	2016-09-30 @ 7:00 am	0.9 ± 0.2	2016-10-03
7802549	3	2016-09-27 @ 7:00 am	2016-09-30 @ 7:00 am	< 0.3	2016-10-03
7802571	30	2016-09-27 @ 7:00 am	2016-09-30 @ 7:00 am	0.5 ± 0.2	2016-10-03
7802566	33	2016-09-27 @ 7:00 am	2016-09-30 @ 7:00 am	0.7 ± 0.2	2016-10-03
7802562	4	2016-09-27 @ 7:00 am	2016-09-30 @ 7:00 am	0.5 ± 0.2	2016-10-03
7802559	6	2016-09-27 @ 7:00 am	2016-09-30 @ 7:00 am	0.5 ± 0.2	2016-10-03
7802558	7	2016-09-27 @ 7:00 am	2016-09-30 @ 7:00 am	0.7 ± 0.3	2016-10-03
7802555	9	2016-09-27 @ 7:00 am	2016-09-30 @ 7:00 am	0.9 ± 0.3	2016-10-03