

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

MCPS RADON TESTING – EXECUTIVE SUMMARY

| Site Name | Somerset Elementary School | |
|--------------------------|----------------------------|--|
| Date of Test Report | 05/12/2022 | |
| Round of Testing | Initial | |
| | Follow-up | |
| | Post Remediation | |
| | 2 Year Testing | |
| | 5 Year Testing | |
| | HVAC Upgrade | |
| | Window Replacement | |
| | New Addition | |
| | New Facility | |
| # Rooms Tested | 1 | |
| # Rooms \geq 4.0 pCi/L | 0 | |
| Lowest Value | <0.3 pCi/L | |
| Highest Value | <0.3 pCi/L | |

Project Status

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



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May 12, 2022

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

| Re: | Radon Testing Services |
|-----|-------------------------------|
| | KCI Job # 122108316 |
| | |

Location: Somerset Elementary School 5811 Warwick Place, Chevy Chase, MD 20815

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 Somerset Elementary School, located at 5811 Warwick Place, Chevy Chase, MD 20815 (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 21, 2022 and deployed three (3) activated charcoal (AC) radon test kits. KCI deployed radon test kits in all frequently-occupied ground contact rooms, and other areas, (if applicable) in accordance with AARST guidance.

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

- 1. Rooms with missing test kits from the Radon 2022 testing period (i.e. test kit was deployed but not recovered),
- 2. Rooms with invalidated test kits from the Radon 2022 testing period (e.g. an open window in the room or disturbed test kit),
- 3. Rooms which were locked/inaccessible during the Radon 2022 testing period,
- 4. Rooms with elevated radon results (i.e. \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 24, 2022 to retrieve the radon sampling test kits. KCI shipped all radon tests via overnight delivery to Airchek, Inc. for analysis by gamma-ray spectroscopy. Airchek, Inc. is a NRSB certified analytical laboratory for radon analysis (certification # ARL1402) located at 1936 Butler Bridge Road, Mills River, North Carolina.

Evaluation of Testing Conditions:

These tests represent:

• Follow-up to initial testing.

These tests were conducted to:

• Evaluate radon concentrations at the facility.

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

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

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

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

Results:

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

The results of the radon test analysis indicated the following:

| Radon Concentration | Room | Result |
|---------------------|------------------|--------|
| ≥4.0 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 | | | |
|--------------------------------|--------------------------------------|--------|--|
| | Somerset ES RT | | |
| Te | Test Period: 03/21/2022 - 03/24/2022 | | |
| | | | |
| Kit Number | Room / Area | Result | |
| 11131704 | 32 | < 0.3 | |
| 11131705 | 32 | < 0.3 | |
| 11131706 | 32 | < 0.3 | |

| Table 2- Radon Testing Results | | | | | |
|---------------------------------------|--------------------------------------|--------------|-------|--|--|
| | Somers | et ES RT | | | |
| | Test Period: 03/21/2022 - 03/24/2022 | | | | |
| | | | | | |
| Kit Number QC Type Room / Area Result | | | | | |
| 11131704 | D | 32 | < 0.3 | | |
| 11131706 FB 32 < 0.3 | | | | | |
| 11139902 | OB | OFFICE BLANK | < 0.3 | | |
| 11139928 TB TRAVEL BLANK | | | | | |

| Summary of Missed Locations | | | |
|-----------------------------|---------------------------------|--------|--|
| Somerset ES RT | | | |
| Т | est Period: 03/21/22 - 03/24/22 | | |
| | | | |
| Kit Number | Room/Area | Result | |
| | NA | | |
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| Summary of Missing, Compromised and >/= 4 piC/L Tests | | | | | |
|---|----------------------------------|--------|--|--|--|
| Somerset ES RT | | | | | |
| | Test Period: 03/21/22 - 03/24/22 | | | | |
| | · · · · · | | | | |
| Kit Number | Room/Area | Result | | | |
| | NA | | | | |
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Table Note:

* Missing or Compromised Sample

ATTACHMENT C

Laboratory Analytical Results

**** LABORATORY ANALYSIS REPORT ****

Radon test result report for: SOMERSET ES

| Kit # | Room Id | Started | Ended | pCi/L | Analyzed |
|----------|---------|-----------------------|-----------------------|-------|------------|
| 11131705 | 32 | 2022-03-21 @ 10:00 am | 2022-03-24 @ 11:00 am | < 0.3 | 2022-03-28 |
| 11131706 | 32 | 2022-03-21 @ 10:00 am | 2022-03-24 @ 11:00 am | < 0.3 | 2022-03-28 |
| 11131704 | 32 | 2022-03-21 @ 10:00 am | 2022-03-24 @ 11:00 am | < 0.3 | 2022-03-28 |

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

EXPOSURE IN BOWSER-MORNER RADON CHAMBER

| CLIENT KCI Technologies, 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: | |
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| 8 4 2 | | |
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| Date Start: Date Stop: | Date Start: | Date Stop: |
| Time Start: Time Stop: | Time Start: | _ Time Stop: |
| Device No.'s: | Device No.'s: | |
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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. Rosa Parks MS
- 2. Poolesville ES
- 3. Wyngate ES
- 4. Seven Locks ES
- 5. Walt Whitman HS
- 6. Somerset ES
- 7. Rock Creek Forest ES
- 8. Walter Johnson HS
- 9. Westbrook ES
- **10.Westland MS**
- **11.Farmland ES**
- **12.College Gardens ES**
- 13.Julius West MS
- 14.Robert Frost MS
- **15.Carl Sandburg Learning Center**

| | Date | Initials |
|----------------------------------|------------|----------|
| Radon Test Kits Deployed | 03/21/2022 | BIMM |
| Radon Test Kits Collected | 03/24/2022 | BMM |
| Radon Test Kits Shipped to Lab* | 03/25/2022 | BMM |
| Radon Test Kits Received by Lab* | 03/28/2022 | Binn |

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



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| Site Name | Somerset Elementary |
|--------------------------|---------------------|
| | School |
| Date of Test Report | 2/21/2022 |
| Round of Testing | Initial |
| - | Follow-up |
| | Post Remediation |
| | 2 Year Testing |
| | 5 Year Testing |
| | HVAC Upgrade |
| | Window Replacement |
| | New Addition |
| | New Facility |
| # Rooms Tested | 30 |
| # Rooms \geq 4.0 pCi/L | 0 |
| Lowest Value | <0.3 pCi/L |
| Highest Value | 0.5 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

February 21, 2022

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

| Re: | Radon Testing Services |
|-----------|-------------------------------|
| | KCI Job # 122108316 |
| Location: | Somerset Elementary School |
| | 5811 Warwick Pl. |
| | Chevy Chase, MD 20815 |

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 Somerset Elementary School, located at 5811 Warwick Place Chevy Chase, MD 20815 (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 January 18, 2022 and deployed thirty four (34) 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 January 21, 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 30s and high temperatures ranged from the mid 30s to the mid 40s Fahrenheit. Maximum sustained winds ranged from 7-20 miles per hour. Average humidity was around 50% with .05 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 |

| Qu | ality 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 | |
|------------|------------------------------------|--------|
| | Somerset ES | |
| ٦ | Fest Period: 01/18/2022-01/21/2022 | |
| | | |
| Kit Number | Room / Area | Result |
| 11106771 | 6 | < 0.3 |
| 11106772 | 6 | < 0.3 |
| 11106799 | 9 | < 0.3 |
| 11106798 | 11 | < 0.3 |
| 11106790 | 15 | < 0.3 |
| 11106786 | 16 | < 0.3 |
| 11106791 | 16 | < 0.3 |
| 11106778 | 17 | < 0.3 |
| 11106785 | 19 | < 0.3 |
| 11106766 | 22 | < 0.3 |
| 11106797 | 28 | 0.5 |
| 11106782 | 100 | < 0.3 |
| 11106773 | 101 | < 0.3 |
| 11106774 | 101 | < 0.3 |
| 11106781 | 101 | < 0.3 |
| 11106796 | 101 | < 0.3 |
| 11106770 | 103 | < 0.3 |
| 11106795 | 131 | < 0.3 |
| 11106765 | 214 | < 0.3 |
| 11106776 | 313 | < 0.3 |
| 11106780 | 100B | < 0.3 |
| 11106788 | 100B | < 0.3 |
| 11106783 | 101B | < 0.3 |
| 11106787 | 101C | < 0.3 |
| 11106789 | 101D | < 0.3 |
| 11106784 | 19H | < 0.3 |
| 11106792 | 1A | < 0.3 |
| 11106793 | ART | < 0.3 |
| 11106501 | BUILDING SERVICES | < 0.3 |
| 11106509 | BUILDING SERVICES | < 0.3 |
| 11106775 | CAFETERIA | < 0.3 |
| 11106777 | CAFETERIA | < 0.3 |
| 11106794 | GYM | < 0.3 |
| 11106800 | GYM | < 0.3 |

| | Table 2- Radon | Testing Results | |
|------------|-------------------|-------------------|--------|
| | Somers | set ES | |
| | Test Period: 01/1 | 8/22-01/21/22 | |
| | | | |
| Kit Number | QC Type | Room / Area | Result |
| 11106509 | FB | Building services | < 0.3 |
| 11106791 | D | 16 | < 0.3 |
| 11106774 | D | 101 | < 0.3 |
| 11106781 | FB | 101 | < 0.3 |
| 11106780 | D | 100b | < 0.3 |
| 11106397 | OB | OFFICE BLANK | < 0.3 |
| 11106400 | FB | TRAVEL BLANK | < 0.3 |

| | Summary of Missed Locations | |
|------------|-------------------------------|--------|
| | Somerset ES | |
| Т | est Period: 01/18/22-01/21/22 | |
| | | |
| Kit Number | Room/Area | Result |
| NA | Room 32 | NA |
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| Summary of I | Missing, Compromised and >/= 4 p | iC/L Tests |
|--------------|----------------------------------|------------|
| | Somerset ES | |
| ٦ | Fest Period: 01/18/22-01/21/22 | |
| | | |
| Kit Number | Room/Area | Result |
| | NA | |
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Table Note:

* Missing or Compromised Sample

ATTACHMENT C

Laboratory Analytical Results

Radon test result report for: SOMERSET ES MAIN

| Kit # | Room Id | Started | Ended | pCi/L | Analyzed |
|----------|-------------------|-------------------|---------------------------|---------------|------------|
| 11106782 | 100 | 2022-01-18 @ 9:00 | 0 am 2022-01-21 @ 9:00 am | < 0.3 | 2022-01-26 |
| 11106788 | 100B | 2022-01-18 @ 10:0 | 0 am 2022-01-21 @ 9:00 am | < 0.3 | 2022-01-26 |
| 11106780 | 100B | 2022-01-18 @ 10:0 | 0 am 2022-01-21 @ 9:00 am | < 0.3 | 2022-01-26 |
| 11106796 | 101 | 2022-01-18 @ 9:00 | 0 am 2022-01-21 @ 9:00 am | < 0.3 | 2022-01-26 |
| 11106773 | 101 | 2022-01-18 @ 9:00 | 0 am 2022-01-21 @ 9:00 am | < 0.3 | 2022-01-26 |
| 11106774 | 101 | 2022-01-18 @ 9:00 | 0 am 2022-01-21 @ 9:00 am | < 0.3 | 2022-01-26 |
| 11106781 | 101 | 2022-01-18 @ 9:00 | 0 am 2022-01-21 @ 9:00 am | < 0.3 | 2022-01-26 |
| 11106783 | 101B | 2022-01-18 @ 10:0 | 0 am 2022-01-21 @ 9:00 am | < 0.3 | 2022-01-26 |
| 11106787 | 101C | 2022-01-18 @ 10:0 | 0 am 2022-01-21 @ 9:00 am | < 0.3 | 2022-01-26 |
| 11106789 | 101D | 2022-01-18 @ 10:0 | 0 am 2022-01-21 @ 9:00 am | < 0.3 | 2022-01-26 |
| 11106770 | 103 | 2022-01-18 @ 10:0 | 0 am 2022-01-21 @ 9:00 am | < 0.3 | 2022-01-26 |
| 11106798 | 11 | 2022-01-18 @ 9:00 | 0 am 2022-01-21 @ 8:00 am | < 0.3 | 2022-01-26 |
| 11106795 | 131 | 2022-01-18 @ 10:0 | 0 am 2022-01-21 @ 9:00 am | < 0.3 | 2022-01-26 |
| 11106790 | 15 | 2022-01-18 @ 9:00 | 0 am 2022-01-21 @ 8:00 am | < 0.3 | 2022-01-26 |
| 11106786 | 16 | 2022-01-18 @ 9:00 |) am 2022-01-21 @ 8:00 am | < 0.3 | 2022-01-26 |
| 11106791 | 16 | 2022-01-18 @ 9:00 |) am 2022-01-21 @ 8:00 am | < 0.3 | 2022-01-26 |
| 11106778 | 17 | 2022-01-18 @ 9:00 | 0 am 2022-01-21 @ 8:00 am | < 0.3 | 2022-01-26 |
| 11106785 | 19 | 2022-01-18 @ 9:00 |) am 2022-01-21 @ 8:00 am | < 0.3 | 2022-01-26 |
| 11106784 | 19H | 2022-01-18 @ 9:00 | 0 am 2022-01-21 @ 8:00 am | < 0.3 | 2022-01-26 |
| 11106792 | 1A | 2022-01-18 @ 8:00 | 0 am 2022-01-21 @ 8:00 am | < 0.3 | 2022-01-26 |
| 11106765 | 214 | 2022-01-18 @ 10:0 | 0 am 2022-01-21 @ 9:00 am | < 0.3 | 2022-01-26 |
| 11106766 | 22 | 2022-01-18 @ 11:0 | 0 am 2022-01-21 @ 8:00 am | < 0.3 | 2022-01-26 |
| 11106797 | 28 | 2022-01-18 @ 9:00 | 0 am 2022-01-21 @ 8:00 am | 0.5 ± 0.4 | 2022-01-26 |
| 11106776 | 313 | 2022-01-18 @ 10:0 | 0 am 2022-01-21 @ 9:00 am | < 0.3 | 2022-01-26 |
| 11106772 | 6 | 2022-01-18 @ 10:0 | 0 am 2022-01-21 @ 8:00 am | < 0.3 | 2022-01-26 |
| 11106771 | 6 | 2022-01-18 @ 10:0 | 0 am 2022-01-21 @ 8:00 am | < 0.3 | 2022-01-26 |
| 11106799 | 9 | 2022-01-18 @ 8:00 |) am 2022-01-21 @ 8:00 am | < 0.3 | 2022-01-26 |
| 11106793 | ART | 2022-01-18 @ 8:00 |) am 2022-01-21 @ 8:00 am | < 0.3 | 2022-01-26 |
| 11106509 | BUILDING SERVICES | 2022-01-18 @ 8:00 |) am 2022-01-21 @ 8:00 am | < 0.3 | 2022-01-26 |
| 11106501 | BUILDING SERVICES | 2022-01-18 @ 8:00 |) am 2022-01-21 @ 8:00 am | < 0.3 | 2022-01-26 |
| 11106777 | CAFETERIA | 2022-01-18 @ 9:00 |) am 2022-01-21 @ 8:00 am | < 0.3 | 2022-01-26 |
| 11106775 | CAFETERIA | 2022-01-18 @ 9:00 |) am 2022-01-21 @ 8:00 am | < 0.3 | 2022-01-26 |
| 11106794 | GYM | 2022-01-18 @ 8:00 |) am 2022-01-21 @ 8:00 am | < 0.3 | 2022-01-26 |
| 11106800 | GYM | 2022-01-18 @ 8:00 |) am 2022-01-21 @ 8:00 am | < 0.3 | 2022-01-26 |

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 Technologie | 5, Jac. Job Number 203404 |
| | _pCi/L Rel. Hum <u>28.8</u> % Temp. <u>59.9</u> F |
| Date Start: 12/24/21 Date Stop: 12/27/2 | Date Start: Date Stop: |
| Time Start: 0809 Time Stop: 0809 | _ Time Start: Time Stop: |
| Device No.'s: (2) Char Bags- | Device No.'s: |
| 9341721,9341722 | |
| р. | |
| syldt | |
| Date Start: Date Stop: | Date Start: Date Stop: |
| Time Start: Time Stop: | Time Start: Time Stop: |
| Device No.'s: | Device No.'s: |
| | · |
| 5° 2 | |
| | |
| Date Start: Date Stop: | Date Start: Date Stop: |
| Time Start: Time Stop: | Time Start: Time Stop: |
| Device No.'s: | Device No.'s: |
| | |
| | 2 |
| | |

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

**** LABORATORY ANALYSIS REPORT ****

Radon test result report for:

SK MA MCPS - Spike Sample Lab Results. Measured values are satisfactory, i.e., within ± 25% of the chamber's reference value (16.2 pCi/L).

| Kit # | Room Id | Started | Ended | pCi/L | Analyzed |
|---------|---------|----------------------|----------------------|----------------|------------|
| 9341721 | 1 | 2021-12-24 @ 8:00 am | 2021-12-27 @ 8:00 am | 11.6 ± 0.9 | 2021-12-31 |
| 9341722 | 1 | 2021-12-24 @ 8:00 am | 2021-12-27 @ 8:00 am | 15.4 ± 1.2 | 2021-12-31 |

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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 – January 2022 Schools

Name of Schools:

- 1. Poolesville ES
- 2. Rosa Parks MS
- 3. Seven Locks ES
- 4. Somerset ES
- 5. Thomas Pyle MS
- 6. Walt Whitman HS
- 7. Walter Johnson HS
- 8. Westland MS
- 9. Wyngate ES

| | Date | Initials |
|----------------------------------|------------|----------|
| Radon Test Kits Deployed | 01/18/2022 | m |
| Radon Test Kits Collected | 01/21/2022 | M |
| Radon Test Kits Shipped to Lab* | 01/21/2022 | Tin |
| Radon Test Kits Received by Lab* | 01/23/2022 | (IN) |

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