

School Year: **24-25**

| | | | |
|-----------------------|---|--|--|
| Facility: | Springbrook High School | | |
| Address: | 201 Valley Brook Drive | | |
| | Silver Spring, MD 20904 | | |
| Reason for Testing: | Scheduled Re-Testing - <input checked="" type="checkbox"/> 2-year or <input type="checkbox"/> 5-year schedule <input type="checkbox"/> Clearance Testing (Post-Mitigation) <input checked="" type="checkbox"/> Building Envelope or HVAC Upgrades <input type="checkbox"/> New Construction – Addition or Facility | | |
| Current Radon Status: | <input checked="" type="checkbox"/> Active Mitigation (2-year regular schedule) <input type="checkbox"/> No Active Mitigation (5-year regular schedule) <input type="checkbox"/> Not Previously Tested (New Facility) | | |
| Round of Testing: | <input type="checkbox"/> Initial Testing -or- <input checked="" type="checkbox"/> Follow-up Testing | | |
| Testing Status: | <input checked="" type="checkbox"/> No Further Testing Needed -or- <input type="checkbox"/> Follow-Up Testing Required | | |

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

| Mitigation - | Facility Radon Status: | | |
|--|--|-----------------------|-------|
| <input type="checkbox"/> Not Required <input checked="" type="checkbox"/> Consider (≥ 2.0 & < 4.0 -pCi/L) <input type="checkbox"/> Required (≥ 4.0 -pCi/L) Rooms: | <input checked="" type="checkbox"/> No Change in Status <input type="checkbox"/> Active Mitigation (2-year regular schedule) <input type="checkbox"/> No Active Mitigation (5-year regular schedule) | | |
| Number of Rooms Tested | 99 | Lowest Value (pCi/L) | < 0.3 |
| Number of Rooms (≥ 4.0 -pCi/L) | 1 | Highest Value (pCi/L) | 4.4 |

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

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

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

Attachment 2 – Laboratory Report(s)

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

Detector and Deployment

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

Testing

| | | | | | |
|---|------------------------|---|--|---|--|
| <input checked="" type="checkbox"/> Short-Term | Length of Test (days): | 3 | Date of Deployment and Retrieval (mm/dd/yy): | 01/12/25 | 03/24/25 |
| <input type="checkbox"/> Long-Term | | | | 01/16/25 | 03/27/25 |
| Does the test period include weekends, school breaks or holidays? | | | | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |
| <i>If “Yes” please explain/detail in the space below:</i> | | | | | |
| Was HVAC operating under occupied conditions? | | | | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No |
| <i>If “No” please explain/detail in the space below:</i> | | | | | |

Testing (continued)

| Round of Testing | Detectors Deployed | | | | Total |
|-----------------------------|--------------------|-----------|----------------|-----------|-------|
| | Ground-Contact | | Upper-Level(s) | | |
| | Initial | Follow-Up | Initial | Follow-Up | |
| Test Locations ¹ | 87 | 4 | 11 | 0 | 102 |
| Duplicates ² | 10 | 1 | 2 | 0 | 13 |
| Field Blanks ³ | 5 | 1 | 1 | 0 | 7 |
| Grand Total | | | | | 122 |

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

2 - 10% of all locations tested, per floor

3 – 5% of all locations tested, per floor

Quality Assurance / Quality Control (QA/QC)

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

| Round of Testing | QA/QC Samples | | Total |
|-------------------------------|----------------|-----------|-------|
| | Initial | Follow-Up | |
| Spikes ¹ | Not applicable | | 10 |
| Trip Blanks ² | 1 | 1 | 2 |
| Office Blanks ^{3, 4} | 1 | 1 | 2 |
| | | | 14 |

1 - 3% of EIC detectors; and 3% from each LOT of CAD and ATD detectors; a maximum of 6-spiked measurements per month for both EIC detectors and each LOT of CAD and ATD detectors.

2 – One per shipping container from start of detector deployment

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

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

Quality Assurance / Quality Control (continued)

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

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

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

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

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

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

Summary of Test Results¹ and Determination of Valid Measurements²

| Round of Testing | Ground-Contact | | Upper-Level(s) | | Total |
|--|----------------|-----------|----------------|-----------|-------|
| | Initial | Follow-Up | Initial | Follow-Up | |
| Number of test locations: | 87 | 1 | 11 | 0 | 99 |
| Number of locations ≥ 8.0 -pCi/L: | 0 | 0 | 0 | 0 | 0 |
| Number of locations ≥ 4.0 and ≤ 8 -pCi/L: | 1 | 0 | 0 | 0 | 1 |
| Number of locations ≥ 2.7 and < 4 -pCi/L: | 1 | 0 | 0 | 0 | 1 |
| Number of locations ≥ 2.0 and < 2.7 -pCi/L: | 5 | 1 | 0 | 0 | 6 |
| Number of missing required test locations ³ : | 1 | 0 | 0 | 0 | 1 |
| Number of failed duplicate control locations: | 0 | 0 | 0 | 0 | 0 |
| Percentage of missing test locations for the facility ^{4,5} : | 1.15% | 0 | 0 | 0 | 1.01% |

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

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

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

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

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

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

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

1 – if all valid measurements are <4.0-pCi/L and the total number of test locations are ≥18, there is an allowance of ≤33%. If less than 18 test locations please review section 6.2 of the ANSI/AARST MA-MFLB 2023 – Conducting Measurements of Radon in Multifamily, School, Commercial and Mix-Use Buildings to determine the allowance;
 2 – if any valid measurements are ≥4.0-pCi/L and the total number of test locations are ≥20, there is an allowance of ≤25% of the total locations tested. If less than 20 test locations please review section 6.2 of the ANSI/AARST MA-MFLB 2023 – Conducting Measurements of Radon in Multifamily, School, Commercial and Mix-Use Buildings to determine the number the allowance.

Follow-Up Testing

Required –

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

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

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

Attachment 1:
Summary Data Tables

Table 1- Radon Testing Results**Springbrook High School****Test Period: 1/12/2025 - 1/16/2025**

| Kit Number | Room / Area | Result |
|------------|--------------|--------|
| 11907259 | 116 | 1.9 |
| 11907252 | 116C | 1.9 |
| 11907212 | A102 | < 0.3 |
| 11907217 | A103 | < 0.3 |
| 11907219 | A104 | < 0.3 |
| 11907220 | A105 | < 0.3 |
| 11907215 | A106 | < 0.3 |
| 11907216 | A108 | < 0.3 |
| 11907225 | A109 | < 0.3 |
| 11907213 | A109 | < 0.3 |
| 11907223 | A111 | < 0.3 |
| 11907214 | A112 | < 0.3 |
| 11907218 | A114 | < 0.3 |
| 11906910 | ANNE SALZMAN | 0.7 |
| 11907207 | ATTENDANCE | < 0.3 |
| 11907298 | AUDITORIUM | 4.4 |
| 11907285 | AUX GYM | 3.6 |
| 11907286 | AUX GYM | < 0.3 |
| 11907291 | AUX GYM | 3.2 |
| 11907226 | B101 | < 0.3 |
| 11907227 | B102 | < 0.3 |
| 11907235 | B103 | < 0.3 |
| 11907241 | B104 | < 0.3 |
| 11907236 | B105 | < 0.3 |
| 11906914 | B106 | < 0.3 |
| 11906934 | B107 | < 0.3 |
| 11907239 | B108 | < 0.3 |
| 11907243 | B108C | 0.5 |
| 11907242 | B110 | < 0.3 |
| 11907240 | B117 | < 0.3 |
| 11907228 | B121 | < 0.3 |
| 11907224 | B122 | < 0.3 |
| 11906902 | C101A | 0.8 |
| 11906904 | C101B | 0.9 |
| 11906926 | C101D | 0.9 |
| 11906927 | C101E | 0.6 |
| 11906928 | C101G | 1.2 |

Table 1- Radon Testing Results**Springbrook High School****Test Period: 1/12/2025 - 1/16/2025**

| Kit Number | Room / Area | Result |
|------------|---------------|--------|
| 11906920 | C101H | 1.4 |
| 11906918 | C101J | 0.8 |
| 11906919 | C101J | 0.8 |
| 11906925 | c101j | < 0.3 |
| 11906917 | C101K | 1.0 |
| 11906912 | C101L | 1.0 |
| 11906911 | C101M | 1.7 |
| 11907294 | C101Q | 2.3 |
| 11907300 | C101Q | 1.8 |
| 11906909 | C101R | 0.9 |
| 11906903 | C101S | 0.5 |
| 11907292 | C102D | 0.9 |
| 11907296 | C102G | 1.3 |
| 11907297 | C102H | 1.3 |
| 11906908 | C205 | 1.1 |
| 11906929 | C307 | < 0.3 |
| 11906931 | C307 | < 0.3 |
| 11906930 | C307 | < 0.3 |
| 11907232 | CAFETERIA | < 0.3 |
| 11907233 | CAFETERIA | < 0.3 |
| 11907234 | CAFETERIA | < 0.3 |
| 11907231 | CAFETERIA | < 0.3 |
| 11907293 | CAREER CENTER | 0.8 |
| 11907278 | D1 BLR | 1.3 |
| 11907284 | D104F | 1.7 |
| 11907288 | D107 | 0.8 |
| 11907287 | D107E | < 0.3 |
| 11907277 | D107G | 0.8 |
| 11907279 | D107G | 1.0 |
| 11907289 | D108 | < 0.3 |
| 11907280 | D111 GLR | 1.1 |
| 11907290 | D117 | 0.7 |
| 11907275 | E106 | < 0.3 |
| 11907270 | E107 | 0.9 |
| 11907276 | E108 | 0.7 |
| 11907269 | E110 | < 0.3 |
| 11907274 | E111 | 0.5 |

Table 1- Radon Testing Results**Springbrook High School****Test Period: 1/12/2025 - 1/16/2025**

| Kit Number | Room / Area | Result |
|------------|-------------|--------|
| 11907271 | E113 | 0.6 |
| 11907272 | E113 | 0.8 |
| 11907273 | E113 | < 0.3 |
| 11907268 | E114 | 0.6 |
| 11907267 | E115 | 0.9 |
| 11907260 | E116 | 1.0 |
| 11907266 | E117 | 0.8 |
| 11907265 | E118 | 1.1 |
| 11906907 | E209 | < 0.3 |
| 11906924 | E310 | 0.7 |
| 11906923 | E319 | 0.7 |
| 11907263 | F101 | 0.5 |
| 11907261 | F102 | 1.5 |
| 11907262 | F102 | 2.0 |
| 11907253 | F103 | 0.8 |
| 11907254 | F104 | 2.0 |
| 11907246 | F105 | 1.0 |
| 11907264 | F106 | 1.2 |
| 11907258 | F107 | 0.9 |
| 11907257 | F108 | 0.8 |
| 11907247 | F109 | 0.9 |
| 11907256 | F109 | 1.0 |
| 11907255 | f109 | < 0.3 |
| 11907250 | F113 | 0.7 |
| 11907251 | F116B | 0.7 |
| 11906913 | F209 | 0.8 |
| 11906933 | F209 | 0.9 |
| 11906922 | F308 | 0.8 |
| 11906901 | G1 | 1.4 |
| 11907245 | G101 | 1.3 |
| 11907244 | G105 | < 0.3 |
| 11907238 | G106A | 0.8 |
| 11907230 | G108 | 1.0 |
| 11907237 | G109 | 1.0 |
| 11907229 | G110 | 0.8 |
| 11907222 | G111 | 2.3 |
| 11906905 | G2 | < 0.3 |

Table 1- Radon Testing Results**Springbrook High School****Test Period: 1/12/2025 - 1/16/2025**

| Kit Number | Room / Area | Result |
|------------|-----------------------------------|--------|
| 11906906 | G202 | < 0.3 |
| 11906916 | G206 | 1.1 |
| 11906915 | G212 | 1.1 |
| 11906921 | G307 | 0.7 |
| 11907282 | GYM | 1.4 |
| 11907281 | GYM | 1.5 |
| 11907295 | HEALTH ROOM | 1.6 |
| 11907210 | MAIN OFFICE | < 0.3 |
| 11907248 | OFFICE ACROSS FROM MAIN OFFICE | < 0.3 |
| 11907249 | OFFICE ACROSS FROM MAIN OFFICE | < 0.3 |
| 11907221 | SUSAN KATZ OFFICE | < 0.3 |
| 11907283 | WEIGHT ROOM | 2.1 |

| Table 3 - QC Radon Testing Results | | | |
|---|----------------|-----------------------------------|---------------|
| Springbrook High School | | | |
| Test Period: 1/12/2025 - 1/16/2025 | | | |
| Kit Number | QC Type | Room / Area | Result |
| 11907213 | D | A109 | < 0.3 |
| 11907291 | D | Aux Gym | 3.2 |
| 11907286 | FB | Aux Gym | < 0.3 |
| 11906919 | D | C101J | 0.8 |
| 11906925 | FB | C101J | < 0.3 |
| 11907294 | D | C101Q | 2.3 |
| 11906931 | D | C307 | < 0.3 |
| 11906930 | FB | C307 | < 0.3 |
| 11907234 | D | Cafeteria | < 0.3 |
| 11907231 | FB | Cafeteria | < 0.3 |
| 11907277 | D | D107G | 0.8 |
| 11907272 | D | E113 | 0.8 |
| 11907273 | FB | E113 | < 0.3 |
| 11907262 | D | F102 | 2.0 |
| 11907247 | D | F109 | 0.9 |
| 11907255 | FB | F109 | < 0.3 |
| 11906933 | D | F209 | 0.9 |
| 11907249 | D | Office Across from Main Office | < 0.3 |
| 11906877 | OB | OFFICE BLANK | < 0.3 |
| 11903993 | TB | TRAVEL BLANK | < 0.3 |

Table 3a - Duplicate Worksheet / Data Validation

Springbrook High School

Test Period: 1/12/2025 - 1/16/2025

| Sample ID | | | Duplicate Concentrations (pCi/L) and OC Checks | | | | | | | |
|-------------|----------|-----------------------------------|--|-------|-------------------------|-----------------|-------------------------|---------|--------------------------------------|----------|
| Kit Numbers | | Room / Area | Higher | Lower | Check #1 (Pass/Fail) | 2x the Lower | Check #2 (Pass/Fail) | Average | Relative Percent Difference (RPD) | Check #3 |
| 11907225 | 11907213 | A109 | 0.3 | 0.3 | ✓ | 0.6 | PASS | 0.3 | <1-pCi/L | ✓ |
| 11907233 | 11907234 | Cafeteria | 0.3 | 0.3 | ✓ | 0.6 | PASS | 0.3 | <1-pCi/L | ✓ |
| 11907248 | 11907249 | Office Across From Main Office | 0.3 | 0.3 | ✓ | 0.6 | PASS | 0.3 | <1-pCi/L | ✓ |
| 11907256 | 11907247 | F109 | 1.0 | 0.9 | ✓ | 1.8 | PASS | 1.0 | <1-pCi/L | ✓ |
| 11907261 | 11907262 | F102 | 2.0 | 1.5 | ✓ | 3.0 | PASS | 1.8 | <1-pCi/L | ✓ |
| 11907271 | 11907272 | E114 | 0.8 | 0.6 | ✓ | 1.2 | PASS | 0.7 | <1-pCi/L | ✓ |
| 11907279 | 11907277 | D107G | 1.0 | 0.8 | ✓ | 1.6 | PASS | 0.9 | <1-pCi/L | ✓ |
| 11907285 | 11907291 | Aux Gym | 3.6 | 3.2 | ✓ | 6.4 | PASS | 3.4 | 11.8% | ✓ |
| 11907294 | 11907294 | C101Q | 2.3 | 1.8 | ✓ | 3.6 | PASS | 2.1 | 24.4% | ✓ |
| 11906918 | 11906919 | C101J | 0.8 | 0.8 | ✓ | 1.6 | PASS | 0.8 | <1-pCi/L | ✓ |
| 11906913 | 11906933 | F209 | 0.9 | 0.8 | ✓ | 1.6 | PASS | 0.9 | <1-pCi/L | ✓ |
| 11906929 | 11906931 | C307 | 0.3 | 0.3 | ✓ | 0.6 | PASS | 0.3 | <1-pCi/L | ✓ |

NOTES:

QC Check #1 - Data Entry

QC Check #2 - Higher duplicate concentration is < or = to 2x the Lower

QC Check #3 - Meets RPD Limits, by average duplicate concentration

- enter 2 if RPD is BELOW warning and control levels, AND passes QC Check 1 and 2
- enter 1 if RPD is ABOVE warning and BELOW control levels, AND passes QC Check 1 and 2
- enter 0 if RPD is ABOVE control level, or 'FAILS' QC Check 1 or 2

| Average (pCi/L) | Warning Level | Control Level |
|---------------------|---------------|---------------|
| < 2.0 | 1-pCi/L | NA |
| Between 2.0 and 3.9 | 50% RPD | 67% RPD |
| ≥ 4.0 | 28% RPD | 36% RPD |

| Table 1- Radon Testing Results | | |
|---|--------------------|---------------|
| Springbrook High School RT | | |
| Test Period: 3/24/2025 - 3/27/2025 | | |
| | | |
| Kit Number | Room / Area | Result |
| 11886579 | AUDITORIUM | 1.7 |
| 11886580 | AUDITORIUM | 1.5 |
| 11886593 | AUDITORIUM | 2.3 |
| 11886595 | AUDITORIUM | 1.5 |
| 11886597 | AUDITORIUM | 2.1 |
| 11886598 | AUDITORIUM | < 0.3 |

| Table 3 - QC Radon Testing Results | | | |
|---|----------------|--------------------|---------------|
| Springbrook High School RT | | | |
| Test Period: 3/24/2025 - 3/27/2025 | | | |
| | | | |
| Kit Number | QC Type | Room / Area | Result |
| 11886579 | D | AUDITORIUM | 1.7 |
| 11886598 | FB | AUDITORIUM | < 0.3 |
| 11886664 | OB | OFFICE BLANK | < 0.3 |
| 11886691 | TB | TRAVEL BLANK | < 0.3 |

Table 3a - Duplicate Worksheet / Data Validation

Springbrook High School RT

Test Period: 3/24/2025 - 3/27/2025

| Sample ID | | Duplicate Concentrations (pCi/L) and QC Checks | | | | | | | | |
|-------------|--|--|-------|-------------------------|-----------------|-------------------------|---------|--------------------------------------|----------|---|
| Kit Numbers | Room / Area | Higher | Lower | Check #1 (Pass/Fail) | 2x the Lower | Check #2 (Pass/Fail) | Average | Relative Percent Difference (RPD) | Check #3 | |
| 11886579 | 11886580 11886595 11886597 11886593 | AUDITORIUM | 2.1 | 1.5 | ✓ | 3.0 | PASS | 1.8 | <1-pCi/L | ✓ |

NOTES:

QC Check #1 - Data Entry

QC Check #2 - Higher duplicate concentration is < or = 2x the Lower

QC Check #3 - Meets RPD Limits, by average duplicate concentration

- enter 2 if RPD is BELOW warning and control levels, AND passes QC Check 1 and 2
- enter 1 if RPD is ABOVE warning and BELOW control levels, AND passes QC Check 1 and 2
- enter 0 if RPD is ABOVE control level, or 'FAILS' QC Check 1 or 2

| Average (pCi/L) | Warning Level | Control Level |
|---------------------|---------------|---------------|
| < 2.0 | 1-pCi/L | NA |
| Between 2.0 and 3.9 | 50% RPD | 67% RPD |
| ≥ 4.0 | 28% RPD | 36% RPD |

Attachment 2:
Laboratory Reports

Radon test result report for:
SPRINGBROOK HS

| Kit # | Room Id | Started | Ended | pCi/L | Analyzed |
|----------|--------------|-----------------------|-----------------------|-----------|------------|
| 11907259 | 116 | 2025-01-13 @ 9:00 am | 2025-01-16 @ 2:00 pm | 1.9 ± 0.4 | 2025-01-20 |
| 11907252 | 116C | 2025-01-13 @ 9:00 am | 2025-01-16 @ 2:00 pm | 1.9 ± 0.4 | 2025-01-20 |
| 11907212 | A102 | 2025-01-13 @ 8:00 am | 2025-01-16 @ 2:00 pm | < 0.3 | 2025-01-20 |
| 11907217 | A103 | 2025-01-13 @ 8:00 am | 2025-01-16 @ 12:00 pm | < 0.3 | 2025-01-20 |
| 11907219 | A104 | 2025-01-13 @ 8:00 am | 2025-01-16 @ 12:00 pm | < 0.3 | 2025-01-20 |
| 11907220 | A105 | 2025-01-13 @ 8:00 am | 2025-01-16 @ 12:00 pm | < 0.3 | 2025-01-20 |
| 11907215 | A106 | 2025-01-13 @ 8:00 am | 2025-01-16 @ 12:00 pm | < 0.3 | 2025-01-20 |
| 11907216 | A108 | 2025-01-13 @ 8:00 am | 2025-01-16 @ 2:00 pm | < 0.3 | 2025-01-20 |
| 11907225 | A109 | 2025-01-13 @ 8:00 am | 2025-01-16 @ 12:00 pm | < 0.3 | 2025-01-20 |
| 11907213 | A109 DUP | 2025-01-13 @ 8:00 am | 2025-01-16 @ 12:00 pm | < 0.3 | 2025-01-20 |
| 11907223 | A111 | 2025-01-13 @ 8:00 am | 2025-01-16 @ 2:00 pm | < 0.3 | 2025-01-20 |
| 11907214 | A112 | 2025-01-13 @ 8:00 am | 2025-01-16 @ 12:00 pm | < 0.3 | 2025-01-20 |
| 11907218 | A114 | 2025-01-13 @ 8:00 am | 2025-01-16 @ 2:00 pm | < 0.3 | 2025-01-20 |
| 11906910 | ANNE SALZMAN | 2025-01-13 @ 11:00 am | 2025-01-16 @ 1:00 pm | 0.7 ± 0.3 | 2025-01-20 |
| 11907207 | ATTENDANCE | 2025-01-13 @ 8:00 am | 2025-01-16 @ 2:00 pm | < 0.3 | 2025-01-20 |
| 11907298 | AUDITORIUM | 2025-01-13 @ 10:00 am | 2025-01-16 @ 1:00 pm | 4.4 ± 0.4 | 2025-01-20 |
| 11907285 | AUX GYM | 2025-01-13 @ 10:00 am | 2025-01-16 @ 1:00 pm | 3.6 ± 0.4 | 2025-01-20 |
| 11907291 | AUX GYM DUP | 2025-01-13 @ 10:00 am | 2025-01-16 @ 1:00 pm | 3.2 ± 0.4 | 2025-01-20 |
| 11907226 | B101 | 2025-01-13 @ 8:00 am | 2025-01-16 @ 12:00 pm | < 0.3 | 2025-01-20 |
| 11907227 | B102 | 2025-01-13 @ 8:00 am | 2025-01-16 @ 12:00 pm | < 0.3 | 2025-01-20 |
| 11907235 | B103 | 2025-01-13 @ 8:00 am | 2025-01-16 @ 12:00 pm | < 0.3 | 2025-01-20 |
| 11907241 | B104 | 2025-01-13 @ 8:00 am | 2025-01-16 @ 12:00 pm | < 0.3 | 2025-01-20 |
| 11907236 | B105 | 2025-01-13 @ 8:00 am | 2025-01-16 @ 12:00 pm | < 0.3 | 2025-01-20 |
| 11906914 | B106 | 2025-01-13 @ 12:00 pm | 2025-01-16 @ 12:00 pm | < 0.3 | 2025-01-20 |
| 11906934 | B107 | 2025-01-13 @ 12:00 pm | 2025-01-16 @ 12:00 pm | < 0.3 | 2025-01-20 |
| 11907239 | B108 | 2025-01-13 @ 8:00 am | 2025-01-16 @ 12:00 pm | < 0.3 | 2025-01-20 |
| 11907243 | B108C | 2025-01-13 @ 8:00 am | 2025-01-16 @ 12:00 pm | 0.5 ± 0.3 | 2025-01-20 |
| 11907242 | B110 | 2025-01-13 @ 8:00 am | 2025-01-16 @ 12:00 pm | < 0.3 | 2025-01-20 |
| 11907240 | B117 | 2025-01-13 @ 8:00 am | 2025-01-16 @ 12:00 pm | < 0.3 | 2025-01-20 |
| 11907228 | B121 | 2025-01-13 @ 8:00 am | 2025-01-16 @ 12:00 pm | < 0.3 | 2025-01-20 |
| 11907224 | B122 | 2025-01-13 @ 8:00 am | 2025-01-16 @ 12:00 pm | < 0.3 | 2025-01-20 |
| 11906902 | C101A | 2025-01-13 @ 10:00 am | 2025-01-16 @ 1:00 pm | 0.8 ± 0.3 | 2025-01-20 |
| 11906904 | C101B | 2025-01-13 @ 11:00 am | 2025-01-16 @ 1:00 pm | 0.9 ± 0.3 | 2025-01-20 |
| 11906926 | C101D | 2025-01-13 @ 11:00 am | 2025-01-16 @ 1:00 pm | 0.9 ± 0.3 | 2025-01-20 |
| 11906927 | C101E | 2025-01-13 @ 11:00 am | 2025-01-16 @ 1:00 pm | 0.6 ± 0.3 | 2025-01-20 |
| 11906928 | C101G | 2025-01-13 @ 11:00 am | 2025-01-16 @ 1:00 pm | 1.2 ± 0.3 | 2025-01-20 |
| 11906920 | C101H | 2025-01-13 @ 11:00 am | 2025-01-16 @ 1:00 pm | 1.4 ± 0.4 | 2025-01-20 |

Radon test result report for:
SPRINGBROOK HS

| Kit # | Room Id | Started | Ended | pCi/L | Analyzed |
|----------|---------------|-----------------------|-----------------------|-----------|------------|
| 11906918 | C101J | 2025-01-13 @ 11:00 am | 2025-01-16 @ 1:00 pm | 0.8 ± 0.3 | 2025-01-20 |
| 11906919 | C101J DUP | 2025-01-13 @ 11:00 am | 2025-01-16 @ 1:00 pm | 0.8 ± 0.3 | 2025-01-20 |
| 11906917 | C101K | 2025-01-13 @ 11:00 am | 2025-01-16 @ 1:00 pm | 1.0 ± 0.3 | 2025-01-20 |
| 11906912 | C101L | 2025-01-13 @ 11:00 am | 2025-01-16 @ 1:00 pm | 1.0 ± 0.3 | 2025-01-20 |
| 11906911 | C101M | 2025-01-13 @ 11:00 am | 2025-01-16 @ 1:00 pm | 1.7 ± 0.4 | 2025-01-20 |
| 11907294 | C101Q | 2025-01-13 @ 10:00 am | 2025-01-16 @ 2:00 pm | 2.3 ± 0.4 | 2025-01-20 |
| 11907300 | C101Q DUP | 2025-01-13 @ 10:00 am | 2025-01-16 @ 2:00 pm | 1.8 ± 0.3 | 2025-01-20 |
| 11906909 | C101R | 2025-01-13 @ 11:00 am | 2025-01-16 @ 1:00 pm | 0.9 ± 0.3 | 2025-01-20 |
| 11906903 | C101S | 2025-01-13 @ 10:00 am | 2025-01-16 @ 1:00 pm | 0.5 ± 0.3 | 2025-01-20 |
| 11907292 | C102D | 2025-01-13 @ 10:00 am | 2025-01-16 @ 1:00 pm | 0.9 ± 0.3 | 2025-01-20 |
| 11907296 | C102G | 2025-01-13 @ 10:00 am | 2025-01-16 @ 1:00 pm | 1.3 ± 0.4 | 2025-01-20 |
| 11907297 | C102H | 2025-01-13 @ 10:00 am | 2025-01-16 @ 1:00 pm | 1.3 ± 0.4 | 2025-01-20 |
| 11906908 | C205 | 2025-01-13 @ 11:00 am | 2025-01-16 @ 2:00 pm | 1.1 ± 0.3 | 2025-01-20 |
| 11906929 | C307 | 2025-01-13 @ 11:00 am | 2025-01-16 @ 2:00 pm | < 0.3 | 2025-01-20 |
| 11906931 | C307 DUP | 2025-01-13 @ 11:00 am | 2025-01-16 @ 2:00 pm | < 0.3 | 2025-01-20 |
| 11907232 | CAFETERIA | 2025-01-13 @ 8:00 am | 2025-01-16 @ 12:00 pm | < 0.3 | 2025-01-20 |
| 11907233 | CAFETERIA | 2025-01-13 @ 8:00 am | 2025-01-16 @ 12:00 pm | < 0.3 | 2025-01-20 |
| 11907234 | CAFETERIA DUP | 2025-01-13 @ 8:00 am | 2025-01-16 @ 12:00 pm | < 0.3 | 2025-01-20 |
| 11907293 | CAREER CENTER | 2025-01-13 @ 10:00 am | 2025-01-16 @ 1:00 pm | 0.8 ± 0.3 | 2025-01-20 |
| 11907278 | D1 BLR | 2025-01-13 @ 10:00 am | 2025-01-16 @ 1:00 pm | 1.3 ± 0.3 | 2025-01-20 |
| 11907284 | D104F | 2025-01-13 @ 10:00 am | 2025-01-16 @ 1:00 pm | 1.7 ± 0.4 | 2025-01-20 |
| 11907288 | D107 | 2025-01-13 @ 10:00 am | 2025-01-16 @ 1:00 pm | 0.8 ± 0.3 | 2025-01-20 |
| 11907287 | D107E | 2025-01-13 @ 10:00 am | 2025-01-16 @ 1:00 pm | < 0.3 | 2025-01-20 |
| 11907279 | D107G | 2025-01-13 @ 10:00 am | 2025-01-16 @ 1:00 pm | 1.0 ± 0.3 | 2025-01-20 |
| 11907277 | D107G DUP | 2025-01-13 @ 10:00 am | 2025-01-16 @ 1:00 pm | 0.8 ± 0.3 | 2025-01-20 |
| 11907289 | D108 | 2025-01-13 @ 10:00 am | 2025-01-16 @ 1:00 pm | < 0.3 | 2025-01-20 |
| 11907280 | D111 GLR | 2025-01-13 @ 10:00 am | 2025-01-16 @ 1:00 pm | 1.1 ± 0.3 | 2025-01-20 |
| 11907290 | D117 | 2025-01-13 @ 10:00 am | 2025-01-16 @ 1:00 pm | 0.7 ± 0.3 | 2025-01-20 |
| 11907275 | E106 | 2025-01-13 @ 10:00 am | 2025-01-16 @ 1:00 pm | < 0.3 | 2025-01-20 |
| 11907270 | E107 | 2025-01-13 @ 10:00 am | 2025-01-16 @ 1:00 pm | 0.9 ± 0.3 | 2025-01-20 |
| 11907276 | E108 | 2025-01-13 @ 10:00 am | 2025-01-16 @ 1:00 pm | 0.7 ± 0.3 | 2025-01-20 |
| 11907269 | E110 | 2025-01-13 @ 9:00 am | 2025-01-16 @ 1:00 pm | < 0.3 | 2025-01-20 |
| 11907274 | E111 | 2025-01-13 @ 9:00 am | 2025-01-16 @ 1:00 pm | 0.5 ± 0.3 | 2025-01-20 |
| 11907271 | E114 | 2025-01-13 @ 9:00 am | 2025-01-16 @ 1:00 pm | 0.6 ± 0.3 | 2025-01-20 |
| 11907268 | E114 | 2025-01-13 @ 9:00 am | 2025-01-16 @ 1:00 pm | 0.6 ± 0.3 | 2025-01-20 |
| 11907272 | E114 DUP | 2025-01-13 @ 9:00 am | 2025-01-16 @ 1:00 pm | 0.8 ± 0.3 | 2025-01-20 |
| 11907267 | E115 | 2025-01-13 @ 9:00 am | 2025-01-16 @ 1:00 pm | 0.9 ± 0.3 | 2025-01-20 |

Radon test result report for:
SPRINGBROOK HS

| Kit # | Room Id | Started | Ended | pCi/L | Analyzed |
|----------|-------------|-----------------------|-----------------------|-----------|------------|
| 11907260 | E116 | 2025-01-13 @ 9:00 am | 2025-01-16 @ 2:00 pm | 1.0 ± 0.3 | 2025-01-20 |
| 11907266 | E117 | 2025-01-13 @ 9:00 am | 2025-01-16 @ 1:00 pm | 0.8 ± 0.3 | 2025-01-20 |
| 11907265 | E118 | 2025-01-13 @ 9:00 am | 2025-01-16 @ 1:00 pm | 1.1 ± 0.3 | 2025-01-20 |
| 11906907 | E209 | 2025-01-13 @ 11:00 am | 2025-01-16 @ 2:00 pm | < 0.3 | 2025-01-20 |
| 11906924 | E310 | 2025-01-13 @ 11:00 am | 2025-01-16 @ 2:00 pm | 0.7 ± 0.3 | 2025-01-20 |
| 11906923 | E319 | 2025-01-13 @ 11:00 am | 2025-01-16 @ 2:00 pm | 0.7 ± 0.3 | 2025-01-20 |
| 11907263 | F101 | 2025-01-13 @ 9:00 am | 2025-01-16 @ 2:00 pm | 0.5 ± 0.3 | 2025-01-20 |
| 11907261 | F102 | 2025-01-13 @ 9:00 am | 2025-01-16 @ 1:00 pm | 1.5 ± 0.3 | 2025-01-20 |
| 11907262 | F102 DUP | 2025-01-13 @ 9:00 am | 2025-01-16 @ 1:00 pm | 2.0 ± 0.4 | 2025-01-20 |
| 11907253 | F103 | 2025-01-13 @ 9:00 am | 2025-01-16 @ 1:00 pm | 0.8 ± 0.3 | 2025-01-20 |
| 11907254 | F104 | 2025-01-13 @ 9:00 am | 2025-01-16 @ 2:00 pm | 2.0 ± 0.4 | 2025-01-20 |
| 11907246 | F105 | 2025-01-13 @ 9:00 am | 2025-01-16 @ 1:00 pm | 1.0 ± 0.3 | 2025-01-20 |
| 11907264 | F106 | 2025-01-13 @ 9:00 am | 2025-01-16 @ 1:00 pm | 1.2 ± 0.3 | 2025-01-20 |
| 11907258 | F107 | 2025-01-13 @ 9:00 am | 2025-01-16 @ 1:00 pm | 0.9 ± 0.3 | 2025-01-20 |
| 11907257 | F108 | 2025-01-13 @ 9:00 am | 2025-01-16 @ 2:00 pm | 0.8 ± 0.3 | 2025-01-20 |
| 11907256 | F109 | 2025-01-13 @ 9:00 am | 2025-01-16 @ 1:00 pm | 1.0 ± 0.3 | 2025-01-20 |
| 11907247 | F109 DUP | 2025-01-13 @ 9:00 am | 2025-01-16 @ 1:00 pm | 0.9 ± 0.3 | 2025-01-20 |
| 11907250 | F113 | 2025-01-13 @ 9:00 am | 2025-01-16 @ 1:00 pm | 0.7 ± 0.3 | 2025-01-20 |
| 11907251 | F116B | 2025-01-13 @ 9:00 am | 2025-01-16 @ 1:00 pm | 0.7 ± 0.3 | 2025-01-20 |
| 11906913 | F209 | 2025-01-13 @ 11:00 am | 2025-01-16 @ 2:00 pm | 0.8 ± 0.3 | 2025-01-20 |
| 11906933 | F209 DUP | 2025-01-13 @ 11:00 am | 2025-01-16 @ 2:00 pm | 0.9 ± 0.3 | 2025-01-20 |
| 11906922 | F308 | 2025-01-13 @ 11:00 am | 2025-01-16 @ 2:00 pm | 0.8 ± 0.3 | 2025-01-20 |
| 11906930 | FIELD BLANK | 2025-01-13 @ 11:00 am | 2025-01-16 @ 12:00 pm | < 0.3 | 2025-01-20 |
| 11906925 | FIELD BLANK | 2025-01-13 @ 11:00 am | 2025-01-16 @ 12:00 pm | < 0.3 | 2025-01-20 |
| 11907255 | FIELD BLANK | 2025-01-13 @ 9:00 am | 2025-01-16 @ 12:00 pm | < 0.3 | 2025-01-20 |
| 11907273 | FIELD BLANK | 2025-01-13 @ 9:00 am | 2025-01-16 @ 12:00 pm | < 0.3 | 2025-01-20 |
| 11907231 | FIELD BLANK | 2025-01-13 @ 8:00 am | 2025-01-16 @ 12:00 pm | < 0.3 | 2025-01-20 |
| 11907286 | FIELD BLANK | 2025-01-13 @ 10:00 am | 2025-01-16 @ 12:00 pm | < 0.3 | 2025-01-20 |
| 11906901 | G1 | 2025-01-13 @ 11:00 am | 2025-01-16 @ 2:00 pm | 1.4 ± 0.4 | 2025-01-20 |
| 11907245 | G101 | 2025-01-13 @ 9:00 am | 2025-01-16 @ 12:00 pm | 1.3 ± 0.3 | 2025-01-20 |
| 11907244 | G105 | 2025-01-13 @ 9:00 am | 2025-01-16 @ 12:00 pm | < 0.3 | 2025-01-20 |
| 11907238 | G106A | 2025-01-13 @ 9:00 am | 2025-01-16 @ 2:00 pm | 0.8 ± 0.3 | 2025-01-20 |
| 11907230 | G108 | 2025-01-13 @ 9:00 am | 2025-01-16 @ 12:00 pm | 1.0 ± 0.3 | 2025-01-20 |
| 11907237 | G109 | 2025-01-13 @ 9:00 am | 2025-01-16 @ 12:00 pm | 1.0 ± 0.3 | 2025-01-20 |
| 11907229 | G110 | 2025-01-13 @ 9:00 am | 2025-01-16 @ 12:00 pm | 0.8 ± 0.3 | 2025-01-20 |
| 11907222 | G111 | 2025-01-13 @ 9:00 am | 2025-01-16 @ 12:00 pm | 2.3 ± 0.4 | 2025-01-20 |
| 11906905 | G2 | 2025-01-13 @ 11:00 am | 2025-01-16 @ 2:00 pm | < 0.3 | 2025-01-20 |

January 20, 2025

**** LABORATORY ANALYSIS REPORT ****

Radon test result report for:
SPRINGBROOK HS

| Kit # | Room Id | Started | Ended | pCi/L | Analyzed |
|----------|------------------------------------|-----------------------|-----------------------|-----------|------------|
| 11906906 | G202 | 2025-01-13 @ 11:00 am | 2025-01-16 @ 2:00 pm | < 0.3 | 2025-01-20 |
| 11906916 | G206 | 2025-01-13 @ 11:00 am | 2025-01-16 @ 2:00 pm | 1.1 ± 0.4 | 2025-01-20 |
| 11906915 | G212 | 2025-01-13 @ 11:00 am | 2025-01-16 @ 2:00 pm | 1.1 ± 0.3 | 2025-01-20 |
| 11906921 | G307 | 2025-01-13 @ 11:00 am | 2025-01-16 @ 2:00 pm | 0.7 ± 0.3 | 2025-01-20 |
| 11907282 | GYM | 2025-01-13 @ 10:00 am | 2025-01-16 @ 1:00 pm | 1.4 ± 0.3 | 2025-01-20 |
| 11907281 | GYM | 2025-01-13 @ 10:00 am | 2025-01-16 @ 1:00 pm | 1.5 ± 0.4 | 2025-01-20 |
| 11907295 | HEALTH ROOM | 2025-01-13 @ 10:00 am | 2025-01-16 @ 1:00 pm | 1.6 ± 0.4 | 2025-01-20 |
| 11907210 | MAIN OFFICE | 2025-01-13 @ 8:00 am | 2025-01-16 @ 12:00 pm | < 0.3 | 2025-01-20 |
| 11907248 | OFFICE ACROSS FROM MAIN OFFICE | 2025-01-13 @ 9:00 am | 2025-01-16 @ 12:00 pm | < 0.3 | 2025-01-20 |
| 11907249 | OFFICE ACROSS FROM MAIN OFFICE DUP | 2025-01-13 @ 9:00 am | 2025-01-16 @ 12:00 pm | < 0.3 | 2025-01-20 |
| 11907221 | SUSAN KATZ OFFICE | 2025-01-13 @ 8:00 am | 2025-01-16 @ 12:00 pm | < 0.3 | 2025-01-20 |
| 11907283 | WEIGHT ROOM | 2025-01-13 @ 10:00 am | 2025-01-16 @ 1:00 pm | 2.1 ± 0.4 | 2025-01-20 |

January 20, 2025

**** LABORATORY ANALYSIS REPORT ****

Radon test result report for:

**OFFICE
MAIN**

| Kit # | Room Id | Started | Ended | pCi/L | Analyzed |
|--------------|----------------|-----------------------|-----------------------|--------------|-----------------|
| 11906876 | O | 2025-01-14 @ 11:00 am | 2025-01-17 @ 11:00 am | < 0.3 | 2025-01-20 |
| 11906877 | O | 2025-01-13 @ 11:00 am | 2025-01-16 @ 11:00 am | < 0.3 | 2025-01-20 |

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

January 20, 2025

**** LABORATORY ANALYSIS REPORT ****

Radon test result report for:

**TRAVEL
MAIN**

| Kit # | Room Id | Started | Ended | pCi/L | Analyzed |
|--------------|----------------|-----------------------|-----------------------|--------------|-----------------|
| 11903993 | T | 2025-01-13 @ 11:00 am | 2025-01-16 @ 11:00 am | < 0.3 | 2025-01-20 |
| 11906878 | T | 2025-01-14 @ 11:00 am | 2025-01-17 @ 11:00 am | < 0.3 | 2025-01-20 |

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 20001560

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

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

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

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

11477880, 11477883, 11477896

B4 Right

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

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

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

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

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

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

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

December 23, 2024

**** LABORATORY ANALYSIS REPORT ****

Radon test result report for:

**SK
MAIN**

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

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



Radon Test Kit Chain of Custody

Project Name: MCPS Radon – Testing January 13th – January 16th, 2024

Name of Schools:

1. Springbrook HS
2. Woodlin ES
3. Parkside Center
4. Bannockburn ES
5. Beall ES
6. Bells Mill ES
7. Bethesda ES

| | Date | Initials |
|----------------------------------|------------|----------|
| Radon Test Kits Deployed | 01/13/2025 | BWM |
| Radon Test Kits Collected | 01/16/2025 | BWM |
| Radon Test Kits Shipped to Lab* | 01/17/2025 | BWM |
| Radon Test Kits Received by Lab* | 01/21/2025 | BWM |

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

April 2, 2025

**** LABORATORY ANALYSIS REPORT ****

Radon test result report for:
SPRINGBROOK HS
MAIN

| Kit # | Room Id | Started | Ended | pCi/L | Analyzed |
|--------------|----------------|----------------------|----------------------|--------------|-----------------|
| 11886579 | AUDITORIUM | 2025-03-24 @ 9:00 am | 2025-03-27 @ 7:00 am | 1.7 ± 0.6 | 2025-04-02 |
| 11886580 | AUDITORIUM | 2025-03-24 @ 9:00 am | 2025-03-27 @ 7:00 am | 1.5 ± 0.6 | 2025-04-02 |
| 11886593 | AUDITORIUM | 2025-03-24 @ 9:00 am | 2025-03-27 @ 7:00 am | 2.3 ± 0.6 | 2025-04-02 |
| 11886595 | AUDITORIUM | 2025-03-24 @ 9:00 am | 2025-03-27 @ 7:00 am | 1.5 ± 0.6 | 2025-04-02 |
| 11886597 | AUDITORIUM | 2025-03-24 @ 9:00 am | 2025-03-27 @ 7:00 am | 2.1 ± 0.6 | 2025-04-02 |
| 11886598 | AUDITORIUM | 2025-03-24 @ 9:00 am | 2025-03-27 @ 7:00 am | < 0.3 | 2025-04-02 |

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

April 3, 2025

**** LABORATORY ANALYSIS REPORT ****

Radon test result report for:

**OFFICE
MAIN**

| Kit # | Room Id | Started | Ended | pCi/L | Analyzed |
|--------------|----------------|-----------------------|-----------------------|--------------|-----------------|
| 11886664 | OB | 2025-03-24 @ 11:00 am | 2025-03-27 @ 11:00 am | < 0.3 | 2025-04-02 |
| 11886692 | OB | 2025-03-25 @ 11:00 am | 2025-03-28 @ 11:00 am | < 0.3 | 2025-04-02 |
| 11951800 | OB | 2025-03-24 @ 11:00 am | 2025-03-28 @ 11:00 am | < 0.3 | 2025-04-02 |

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

April 3, 2025

**** LABORATORY ANALYSIS REPORT ****

Radon test result report for:

**TRAVEL
MAIN**

| Kit # | Room Id | Started | Ended | pCi/L | Analyzed |
|--------------|----------------|-----------------------|-----------------------|--------------|-----------------|
| 11886691 | TB | 2025-03-24 @ 11:00 am | 2025-03-27 @ 11:00 am | < 0.3 | 2025-04-02 |
| 11886693 | TB | 2025-03-25 @ 11:00 am | 2025-03-28 @ 11:00 am | < 0.3 | 2025-04-02 |
| 11892493 | TB | 2025-03-24 @ 11:00 am | 2025-03-28 @ 11:00 am | < 0.3 | 2025-04-02 |

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 20002919

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

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

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

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

11886401 thru 11886406,

11886410

G3 Right

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

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

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

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

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

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

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

March 19, 2025

**** LABORATORY ANALYSIS REPORT ****

Radon test result report for:

**QC
MAIN**

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

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Radon Test Kit Chain of Custody

Project Name: MCPS Radon – Testing March 24th – March 27th, 2025

Name of Schools:

- | | |
|----------------------|----------------------------|
| 1. Beverly Farms ES | 7. Julius West MS |
| 2. Bradley Hills ES | 8. Parkland MS |
| 3. Cabin John MS | 9. Rockville HS |
| 4. Springbrook HS | 10. Westland MS |
| 5. Thomas Edison HS | 11. Charles W. Woodward HS |
| 6. Walter Johnson HS | 12. Walt Whitman HS |

| | Date | Initials |
|----------------------------------|-----------|----------|
| Radon Test Kits Deployed | 3/24/2025 | BMM |
| Radon Test Kits Collected | 3/27/2025 | BMM |
| Radon Test Kits Shipped to Lab* | 3/28/2025 | BMM |
| Radon Test Kits Received by Lab* | 4/01/2025 | BMM |

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



MCPS RADON TESTING – EXECUTIVE SUMMARY

| | |
|--------------------------|--|
| Site Name | Springbrook High School |
| Date of Test Report | 3/2/2023 |
| Round of Testing | Initial Follow-up Post Remediation 2 Year Testing 5 Year Testing HVAC Upgrade Window Replacement New Addition New Facility |
| # Rooms Tested | 115 |
| # Rooms Re-tested | 1 |
| # Rooms \geq 4.0 pCi/L | 0 |
| Lowest Value | <0.3 pCi/L |
| Highest Value | 3.1 pCi/L |

Project Status:

1. Initial testing completed;
2. Missing or compromised samples need re-test.
3. Retesting Completed 2/14/23 – 2/17/23.
4. 2-Year Testing Completed.



March 3, 2023

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

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

Location: Springbrook High School
201 Valleybrook Drive
Silver Spring, MD 20904

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 Springbrook High School, located at 201 Valleybrook Drive, Silver Spring, MD 20904 (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 initially on January 23, 2023 and deployed one hundred thirty-four (134) 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 returned to the site on January 26, 2023 to retrieve the radon sampling test kits. KCI shipped all radon tests via overnight delivery to Accustar Labs - MA. for analysis by gamma-ray spectroscopy. Accustar Labs - MA is a NRSB certified analytical laboratory for radon analysis (certification #ARL0017) located at 2 Saber Way, Ward Hill, MA 01835.

KCI re-visited the site on February 14, 2023 to deploy four (4) activated charcoal (AC) radon test kits for testing of missed rooms or compromised test kits during initial testing.

KCI returned to the site on February 17, 2023 to retrieve the radon re-sampling test kits. KCI shipped all radon tests via overnight delivery to Accustar Labs – MA for analysis by gamma-ray spectroscopy. Accustar Labs – MA is a NRSB certified analytical laboratory for radon analysis (certification #ARL0017) located at 2 Saber Way, Ward Hill, MA 01835.

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.

Evaluation of Testing Conditions:

These tests represent:

- Follow up to initial testing.

These tests were conducted to:

- Evaluate radon concentration levels at the facility.

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

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

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

KCI also compiled weather data for the testing period and conducted observations of relevant field conditions. During the test period, weather records indicate temperatures ranged from the 31°F to 52°F. Maximum sustained winds ranged from 5-25 miles per hour. Average humidity was around 60% with .32 inches of precipitation (rain) was recorded during testing period.

During the re-testing period, weather records indicate low temperatures were in the mid-20s°F and high temperatures ranged to the 70s°F. Maximum sustained winds ranged from 0-33 miles per hour. Average humidity was around 62% with 1.01 inches of precipitation (rain) was recorded during testing period.

Results:

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

The results of the radon test analysis indicated the following:

| Radon Concentration | Room | Result |
|----------------------------|------------------|---------------|
| ≥4.0 pCi/L | None | N/A |
| <4.0 pCi/L | See Attachment B | |

The results of the radon re-testing analysis indicated the following:

| Radon Concentration | Room | Result |
|----------------------------|------------------|---------------|
| ≥4.0 pCi/L | None | N/A |
| <4.0 pCi/L | See Attachment B | |

| Quality Control Samples | |
|--------------------------------|--|
| Results of Blank Canisters: | The office blanks, and lab transit blanks had test results of less than the laboratory detection limit of 0.3 pCi/L. |
| Adequate Laboratory Precision? | Review of the duplicate sample analysis indicates that adequate laboratory measurement precision was achieved. |
| Spike Sample Analysis: | The Spike Sample analysis results indicate the laboratory is operating within statistical control limits. |

Our professional services have been performed in accordance with customary principles and practices in the field of industrial hygiene and engineering. If you have any questions or comments regarding this report, please feel free to contact me at (410) 891-1769.

Sincerely,



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

Attachments: A- Floor Plan with Test Locations
 B- Table 1-3, Radon Test Summary Spreadsheets
 C- Laboratory Analytical Results

ATTACHMENT A

Floor Plan With Test Locations

ATTACHMENT B

Radon Test Summary Spreadsheet

| Table 1- Radon Testing Results | | |
|--------------------------------------|-----------------------|--------|
| Springbrook HS | | |
| Test Period: 01/23/2023 - 01/26/2023 | | |
| Kit Number | Room / Area | Result |
| 11288708 | A.SALZMAN OFFICE | 0.9 |
| 11634430 | A-102 | < 0.3 |
| 11634899 | A-103 | < 0.3 |
| 11634432 | A-104 | < 0.3 |
| 11634415 | A-105 | < 0.3 |
| 11634456 | A-106 | < 0.3 |
| 11634427 | A-108 | < 0.3 |
| 11634442 | A-109 | < 0.3 |
| 11634435 | A-111 | < 0.3 |
| 11634428 | A-112 | < 0.3 |
| 11634436 | A-112 | < 0.3 |
| 11634898 | A-114 | < 0.3 |
| 11634900 | ATTENDANCE OFFICE | < 0.3 |
| 11288701 | AUDITORIUM | 1.2 |
| 11288704 | AUDITORIUM | 0.9 |
| 11288771 | AUXILIARY GYM | 1.8 |
| 11288773 | AUXILIARY GYM | 1.8 |
| 11634412 | B-101 | < 0.3 |
| 11634433 | B-101 | < 0.3 |
| 11634441 | B-101 | 0.6 |
| 11634434 | B-102 | < 0.3 |
| 11634446 | B-103 | < 0.3 |
| 11634413 | B-104 | 0.8 |
| 11634453 | B-104-C | 0.8 |
| 11634449 | B-105 | < 0.3 |
| 11634447 | B-106 | < 0.3 |
| 11634452 | B106C | < 0.3 |
| 11634451 | B-107 | < 0.3 |
| 11634401 | B107C | < 0.3 |
| 11634421 | B-108 | < 0.3 |
| 11634448 | B108C | < 0.3 |
| 11634440 | B109/B110 | < 0.3 |
| 11634450 | B109/B110 | < 0.3 |
| 11634439 | B109-A | < 0.3 |
| 11634438 | B-117 | < 0.3 |
| 11634444 | B-118 | < 0.3 |
| 11634443 | B-121 | 1.2 |
| 11634411 | B-122 | < 0.3 |
| 11634420 | B-122 OFFICE | < 0.3 |
| 11288775 | BOYS LOCKER ROOM D1 | 1.8 |
| 11634431 | BUSINESS ADMIN OFFICE | < 0.3 |
| 11288778 | C- 306 | < 0.3 |

| Table 1- Radon Testing Results | | |
|--------------------------------------|-------------------------------|--------|
| Springbrook HS | | |
| Test Period: 01/23/2023 - 01/26/2023 | | |
| Kit Number | Room / Area | Result |
| 11634402 | C-101-A | < 0.3 |
| 11634403 | C-101-A | < 0.3 |
| 11634423 | C-101-A | 0.7 |
| 11634405 | C-101-B | < 0.3 |
| 11634404 | C-101-C | < 0.3 |
| 11634417 | C-101-D | < 0.3 |
| 11634407 | C-101-E | < 0.3 |
| 11634418 | C-101-G | < 0.3 |
| 11634416 | C-101-H | 0.6 |
| 11634409 | C-101-J | < 0.3 |
| 11634425 | C-101-K | < 0.3 |
| 11634424 | C-101-L | < 0.3 |
| 11634419 | C-101-M | 0.7 |
| 11634422 | C-101-P | < 0.3 |
| 11634406 | C-101-Q | 0.6 |
| 11634408 | C-101-R | < 0.3 |
| 11634410 | C-101-R | < 0.3 |
| 11634426 | C-101-S | < 0.3 |
| 11288711 | C-102 | < 0.3 |
| 11288703 | C-102-A | < 0.3 |
| 11288707 | C-102-A | 0.7 |
| 11288710 | C-102-A | < 0.3 |
| 11288709 | C-102-D | < 0.3 |
| 11288768 | C-202 | < 0.3 |
| 11288774 | C-202 | < 0.3 |
| 11634437 | CAFETERIA | < 0.3 |
| 11634445 | CAFETERIA | < 0.3 |
| 11288716 | D-103 | 1.2 |
| 11288726 | D-104-C WEIGHT ROOM | 0.8 |
| 11288720 | D-107 | 0.8 |
| 11288714 | D-107-E | 0.6 |
| 11288717 | D-108 | 0.5 |
| 11288724 | D-108 | < 0.3 |
| 11288723 | D-108A | < 0.3 |
| 11288727 | D-111 | < 0.3 |
| 11288734 | D112 GIRLS LOCKER ROOM OFFICE | 0.7 |
| 11288733 | DANCE STUDIO D118 | 0.9 |
| 11288741 | E-102 | < 0.3 |
| 11288765 | E-105 | 0.7 |
| 11288719 | E-106 | 0.5 |
| 11288763 | E107 | < 0.3 |
| 11288721 | E-108 | < 0.3 |

| Table 1- Radon Testing Results | | |
|--------------------------------------|-------------|--------|
| Springbrook HS | | |
| Test Period: 01/23/2023 - 01/26/2023 | | |
| Kit Number | Room / Area | Result |
| 11288758 | E-109 | 0.5 |
| 11288744 | E-110 | < 0.3 |
| 11288702 | E-111 | < 0.3 |
| 11288722 | E-113 | 0.6 |
| 11288706 | E114 | < 0.3 |
| 11288713 | E-114 | < 0.3 |
| 11288718 | E-114 | < 0.3 |
| 11288705 | E-115 | < 0.3 |
| 11288725 | E-116 | 0.9 |
| 11288728 | E-116B | 1.3 |
| 11288729 | E-116C | 1.3 |
| 11288747 | E-117 | < 0.3 |
| 11288745 | E-118 | 1.1 |
| 11288746 | E-118 | 0.9 |
| 11288772 | E-210 | 0.6 |
| 11288748 | F-101 | < 0.3 |
| 11288740 | F-103 | < 0.3 |
| 11288731 | F-104 | 1.5 |
| 11288735 | F-105 | 1.0 |
| 11288730 | F-106 | 1.1 |
| 11288742 | F-107 | 0.6 |
| 11288732 | F-108 | 0.8 |
| 11288738 | F-108 | < 0.3 |
| 11288739 | F-108 | < 0.3 |
| 11288736 | F-109 | 0.8 |
| 11288743 | F-113 | < 0.3 |
| 11288737 | F116B | 1.3 |
| 11288777 | F-208 | < 0.3 |
| 11288750 | G-1 | 0.7 |
| 11288749 | G-101 | 0.9 |
| 11288754 | G-105 | < 0.3 |
| 11288756 | G-106 | 0.5 |
| 11288755 | G-108 | 0.6 |
| 11288757 | G-109 | 0.6 |
| 11288761 | G-11 | 0.5 |
| 11288751 | G-110 | < 0.3 |
| 11288752 | G-111 | 0.9 |
| 11288753 | G-111 | 1.4 |
| 11288766 | G-12 | < 0.3 |
| 11288759 | G-2 | < 0.3 |
| 11288776 | G-202 | 0.7 |
| 11288767 | G-3 | 2.1 |

| Table 1- Radon Testing Results | | |
|--------------------------------------|-----------------------|--------|
| Springbrook HS | | |
| Test Period: 01/23/2023 - 01/26/2023 | | |
| | | |
| Kit Number | Room / Area | Result |
| 11288760 | G-8 | 3.1 |
| 11288762 | G-8 | 2.7 |
| 11288764 | G-8 | < 0.3 |
| 11288712 | GYM | 1.2 |
| 11634414 | KITCHEN OFFICE B-120B | 0.8 |
| 11634429 | MAIN OFFICE A101 | < 0.3 |
| 11288769 | MEDIA CENTER | < 0.3 |
| 11288770 | MEDIA CENTER | < 0.3 |

| Table 2- Radon Testing Results | | | |
|----------------------------------|---------|--------------|--------|
| Springbrook HS | | | |
| Test Period: 01/24/23 - 01/27/23 | | | |
| Kit Number | QC Type | Room / Area | Result |
| 11634436 | D | A-112 | < 0.3 |
| 11634433 | FB | B-101 | < 0.3 |
| 11634441 | D | B-101 | 0.6 |
| 11634450 | D | B109/B110 | < 0.3 |
| 11634403 | FB | C-101-A | < 0.3 |
| 11634423 | D | C-101-A | 0.7 |
| 11634410 | D | C-101-R | < 0.3 |
| 11288707 | D | C-102-A | 0.7 |
| 11288710 | FB | C-102-A | < 0.3 |
| 11288774 | D | C-202 | < 0.3 |
| 11288724 | D | D-108 | < 0.3 |
| 11288713 | D | E-114 | < 0.3 |
| 11288718 | FB | E-114 | < 0.3 |
| 11288746 | D | E-118 | 0.9 |
| 11288738 | D | F-108 | < 0.3 |
| 11288739 | FB | F-108 | < 0.3 |
| 11288753 | D | G-111 | 1.4 |
| 11288762 | D | G-8 | 2.7 |
| 11288764 | FB | G-8 | < 0.3 |
| 11633975 | OB | OFFICE BLANK | < 0.3 |
| 11633983 | TB | TRAVEL BLANK | < 0.3 |

| Table 1- Radon Testing Results | | |
|--------------------------------------|-------------|--------|
| Springbrook HS RT | | |
| Test Period: 02/14/2023 - 02/17/2023 | | |
| | | |
| Kit Number | Room / Area | Result |
| 11633977 | GYM | 1.9 |
| 11633985 | GYM | 1.9 |
| 11634977 | GYM | 1.8 |
| 11634978 | GYM | < 0.3 |

| Table 2- Radon Testing Results | | | |
|----------------------------------|---------|--------------|--------|
| Springbrook HS RT | | | |
| Test Period: 02/14/23 - 02/17/23 | | | |
| | | | |
| Kit Number | QC Type | Room / Area | Result |
| 11633985 | D | Gym | 1.9 |
| 11634978 | FB | Gym | < 0.3 |
| 11634060 | OB | OFFICE BLANK | < 0.3 |
| 11634067 | TB | TRAVEL BALNK | < 0.3 |

ATTACHMENT C

Laboratory Analytical Results

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

February 1, 2023

**** LABORATORY ANALYSIS REPORT ****

Radon test result report for:

| Kit # | Room Id | Started | Ended | pCi/L | Analyzed |
|--------------|----------------|-----------------------|-----------------------|--------------|-----------------|
| 11288704 | AUDITORIUM | 2023-01-24 @ 11:00 am | 2023-01-27 @ 11:00 am | 0.9 ± 0.3 | 2023-01-31 |
| 11288701 | AUDITORIUM | 2023-01-24 @ 11:00 am | 2023-01-27 @ 11:00 am | 1.2 ± 0.4 | 2023-01-31 |
| 11288711 | C-102 | 2023-01-24 @ 11:00 am | 2023-01-27 @ 11:00 am | < 0.3 | 2023-01-31 |
| 11288710 | C-102-A | 2023-01-24 @ 11:00 am | 2023-01-27 @ 11:00 am | < 0.3 | 2023-01-31 |
| 11288707 | C-102-A | 2023-01-24 @ 11:00 am | 2023-01-27 @ 11:00 am | 0.7 ± 0.3 | 2023-01-31 |
| 11288707 | C-102-A | 2023-01-24 @ 11:00 am | 2023-01-27 @ 11:00 am | 0.7 ± 0.3 | 2023-01-31 |
| 11288703 | C-102-A | 2023-01-24 @ 11:00 am | 2023-01-27 @ 11:00 am | < 0.3 | 2023-01-31 |
| 11288709 | C-102-D | 2023-01-24 @ 11:00 am | 2023-01-27 @ 11:00 am | < 0.3 | 2023-01-31 |

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

Radon test result report for:**MAIN**

| Kit # | Room Id | Started | Ended | pCi/L | Analyzed |
|----------|-------------------|-----------------------|-----------------------|-----------|------------|
| 11634415 | A-+95 | 2023-01-24 @ 11:00 am | 2023-01-27 @ 9:00 am | < 0.3 | 2023-01-31 |
| 11634430 | A-102 | 2023-01-24 @ 9:00 am | 2023-01-27 @ 9:00 am | < 0.3 | 2023-01-31 |
| 11634899 | A-103 | 2023-01-24 @ 9:00 am | 2023-01-27 @ 9:00 am | < 0.3 | 2023-01-31 |
| 11634432 | A-104 | 2023-01-24 @ 9:00 am | 2023-01-27 @ 9:00 am | < 0.3 | 2023-01-31 |
| 11634456 | A-106 | 2023-01-24 @ 9:00 am | 2023-01-27 @ 9:00 am | < 0.3 | 2023-01-31 |
| 11634427 | A-108 | 2023-01-24 @ 9:00 am | 2023-01-27 @ 9:00 am | < 0.3 | 2023-01-31 |
| 11634442 | A-109 | 2023-01-24 @ 9:00 am | 2023-01-27 @ 9:00 am | < 0.3 | 2023-01-31 |
| 11634898 | A-11 | 2023-01-24 @ 9:00 am | 2023-01-27 @ 9:00 am | < 0.3 | 2023-01-31 |
| 11634435 | A-111 | 2023-01-24 @ 9:00 am | 2023-01-27 @ 9:00 am | < 0.3 | 2023-01-31 |
| 11634428 | A-112 | 2023-01-24 @ 9:00 am | 2023-01-27 @ 9:00 am | < 0.3 | 2023-01-31 |
| 11634436 | A-112 | 2023-01-24 @ 9:00 am | 2023-01-27 @ 9:00 am | < 0.3 | 2023-01-31 |
| 11288708 | A.SALZMAN OFFICE | 2023-01-24 @ 11:00 am | 2023-01-27 @ 12:00 pm | 0.9 ± 0.4 | 2023-01-31 |
| 11634900 | ATTENDANCE OFFICE | 2023-01-24 @ 9:00 am | 2023-01-27 @ 9:00 am | < 0.3 | 2023-01-31 |
| 11288771 | AUXILIARY GYM | 2023-01-24 @ 3:00 pm | 2023-01-27 @ 11:00 am | 1.8 ± 0.4 | 2023-01-31 |
| 11288773 | AUXILIARY GYM | 2023-01-24 @ 3:00 pm | 2023-01-27 @ 11:00 am | 1.8 ± 0.4 | 2023-01-31 |
| 11634433 | B-101 | 2023-01-24 @ 10:00 am | 2023-01-27 @ 9:00 am | < 0.3 | 2023-01-31 |
| 11634441 | B-101 | 2023-01-24 @ 10:00 am | 2023-01-27 @ 9:00 am | 0.6 ± 0.4 | 2023-01-31 |
| 11634412 | B-101 | 2023-01-24 @ 10:00 am | 2023-01-27 @ 9:00 am | < 0.3 | 2023-01-31 |
| 11634434 | B-102 | 2023-01-24 @ 10:00 am | 2023-01-27 @ 9:00 am | < 0.3 | 2023-01-31 |
| 11634446 | B-103 | 2023-01-24 @ 10:00 am | 2023-01-27 @ 9:00 am | < 0.3 | 2023-01-31 |
| 11634413 | B-104 | 2023-01-24 @ 10:00 am | 2023-01-27 @ 9:00 am | 0.8 ± 0.4 | 2023-01-31 |
| 11634453 | B-104-C | 2023-01-24 @ 10:00 am | 2023-01-27 @ 9:00 am | 0.8 ± 0.3 | 2023-01-31 |
| 11634449 | B-105 | 2023-01-24 @ 10:00 am | 2023-01-27 @ 9:00 am | < 0.3 | 2023-01-31 |
| 11634447 | B-106 | 2023-01-24 @ 10:00 am | 2023-01-27 @ 9:00 am | < 0.3 | 2023-01-31 |
| 11634451 | B-107 | 2023-01-24 @ 11:00 am | 2023-01-27 @ 9:00 am | < 0.3 | 2023-01-31 |
| 11634421 | B-108 | 2023-01-24 @ 10:00 am | 2023-01-27 @ 9:00 am | < 0.3 | 2023-01-31 |
| 11634438 | B-117 | 2023-01-24 @ 10:00 am | 2023-01-27 @ 9:00 am | < 0.3 | 2023-01-31 |
| 11634444 | B-118 | 2023-01-24 @ 10:00 am | 2023-01-27 @ 9:00 am | < 0.3 | 2023-01-31 |
| 11634443 | B-121 | 2023-01-24 @ 10:00 am | 2023-01-27 @ 9:00 am | 1.2 ± 0.4 | 2023-02-01 |
| 11634411 | B-122 | 2023-01-24 @ 9:00 am | 2023-01-27 @ 12:00 pm | < 0.3 | 2023-01-31 |
| 11634420 | B-122 OFFICE | 2023-01-24 @ 9:00 am | 2023-01-27 @ 12:00 pm | < 0.3 | 2023-01-31 |
| 11634452 | B106C | 2023-01-24 @ 10:00 am | 2023-01-27 @ 9:00 am | < 0.3 | 2023-01-31 |
| 11634401 | B107C | 2023-01-24 @ 11:00 am | 2023-01-27 @ 9:00 am | < 0.3 | 2023-01-31 |
| 11634448 | B108C | 2023-01-24 @ 10:00 am | 2023-01-27 @ 9:00 am | < 0.3 | 2023-01-31 |
| 11634439 | B109-A | 2023-01-24 @ 10:00 am | 2023-01-27 @ 9:00 am | < 0.3 | 2023-01-31 |
| 11634440 | B109/B110 | 2023-01-24 @ 10:00 am | 2023-01-27 @ 9:00 am | < 0.3 | 2023-01-31 |
| 11634450 | B109/B110 | 2023-01-24 @ 10:00 am | 2023-01-27 @ 9:00 am | < 0.3 | 2023-01-31 |

Radon test result report for:**MAIN**

| Kit # | Room Id | Started | Ended | pCi/L | Analyzed |
|----------|-------------------------------|-----------------------|-----------------------|-----------|------------|
| 11288775 | BOYS LOCKER ROOM D1 | 2023-01-24 @ 3:00 pm | 2023-01-27 @ 11:00 am | 1.8 ± 0.4 | 2023-01-31 |
| 11634431 | BUSINESS ADMIN OFFICE | 2023-01-24 @ 9:00 am | 2023-01-27 @ 9:00 am | < 0.3 | 2023-01-31 |
| 11288778 | C- 306 | 2023-01-24 @ 3:00 pm | 2023-01-27 @ 12:00 pm | < 0.3 | 2023-01-31 |
| 11634402 | C-101-A | 2023-01-24 @ 11:00 am | 2023-01-27 @ 11:00 am | < 0.3 | 2023-01-31 |
| 11634423 | C-101-A | 2023-01-24 @ 11:00 am | 2023-01-27 @ 11:00 am | 0.7 ± 0.3 | 2023-01-31 |
| 11634403 | C-101-A | 2023-01-24 @ 11:00 am | 2023-01-27 @ 11:00 am | < 0.3 | 2023-01-31 |
| 11634405 | C-101-B | 2023-01-24 @ 11:00 am | 2023-01-27 @ 12:00 pm | < 0.3 | 2023-01-31 |
| 11634404 | C-101-C | 2023-01-24 @ 11:00 am | 2023-01-27 @ 11:00 am | < 0.3 | 2023-01-31 |
| 11634417 | C-101-D | 2023-01-24 @ 11:00 am | 2023-01-27 @ 12:00 pm | < 0.3 | 2023-01-31 |
| 11634407 | C-101-E | 2023-01-24 @ 11:00 am | 2023-01-27 @ 12:00 pm | < 0.3 | 2023-01-31 |
| 11634418 | C-101-G | 2023-01-24 @ 11:00 am | 2023-01-27 @ 12:00 pm | < 0.3 | 2023-01-31 |
| 11634416 | C-101-H | 2023-01-24 @ 11:00 am | 2023-01-27 @ 12:00 pm | 0.6 ± 0.3 | 2023-01-31 |
| 11634409 | C-101-J | 2023-01-24 @ 11:00 am | 2023-01-27 @ 12:00 pm | < 0.3 | 2023-01-31 |
| 11634425 | C-101-K | 2023-01-24 @ 11:00 am | 2023-01-27 @ 12:00 pm | < 0.3 | 2023-01-31 |
| 11634424 | C-101-L | 2023-01-24 @ 11:00 am | 2023-01-27 @ 12:00 pm | < 0.3 | 2023-01-31 |
| 11634419 | C-101-M | 2023-01-24 @ 11:00 am | 2023-01-27 @ 12:00 pm | 0.7 ± 0.3 | 2023-01-31 |
| 11634422 | C-101-P | 2023-01-24 @ 11:00 am | 2023-01-27 @ 11:00 am | < 0.3 | 2023-01-31 |
| 11634406 | C-101-Q | 2023-01-24 @ 11:00 am | 2023-01-27 @ 11:00 am | 0.6 ± 0.3 | 2023-01-31 |
| 11634408 | C-101-R | 2023-01-24 @ 11:00 am | 2023-01-27 @ 12:00 pm | < 0.3 | 2023-01-31 |
| 11634410 | C-101-R | 2023-01-24 @ 11:00 am | 2023-01-27 @ 12:00 pm | < 0.3 | 2023-01-31 |
| 11634426 | C-101-S | 2023-01-24 @ 11:00 am | 2023-01-27 @ 12:00 pm | < 0.3 | 2023-01-31 |
| 11288774 | C-202 | 2023-01-24 @ 2:00 pm | 2023-01-27 @ 12:00 pm | < 0.3 | 2023-01-31 |
| 11288768 | C-202 | 2023-01-24 @ 2:00 pm | 2023-01-27 @ 12:00 pm | < 0.3 | 2023-01-31 |
| 11634445 | CAFETERIA | 2023-01-24 @ 9:00 am | 2023-01-27 @ 9:00 am | < 0.3 | 2023-01-31 |
| 11634437 | CAFETERIA | 2023-01-24 @ 9:00 am | 2023-01-27 @ 9:00 am | < 0.3 | 2023-01-31 |
| 11288716 | D-103 | 2023-01-24 @ 12:00 pm | 2023-01-27 @ 1:00 pm | 1.2 ± 0.3 | 2023-01-31 |
| 11288726 | D-104-C WEIGHT ROOM | 2023-01-24 @ 12:00 pm | 2023-01-27 @ 11:00 am | 0.8 ± 0.4 | 2023-01-31 |
| 11288720 | D-107 | 2023-01-24 @ 12:00 pm | 2023-01-27 @ 11:00 am | 0.8 ± 0.4 | 2023-01-31 |
| 11288714 | D-107-E | 2023-01-24 @ 12:00 pm | 2023-01-27 @ 11:00 am | 0.6 ± 0.4 | 2023-01-31 |
| 11288717 | D-108 | 2023-01-24 @ 12:00 pm | 2023-01-27 @ 11:00 am | 0.5 ± 0.4 | 2023-01-31 |
| 11288724 | D-108 | 2023-01-24 @ 12:00 pm | 2023-01-27 @ 11:00 am | < 0.3 | 2023-01-31 |
| 11288723 | D-108A | 2023-01-24 @ 12:00 pm | 2023-01-27 @ 11:00 am | < 0.3 | 2023-01-31 |
| 11288727 | D-111 | 2023-01-24 @ 12:00 pm | 2023-01-27 @ 11:00 am | < 0.3 | 2023-01-31 |
| 11288734 | D112 GIRLS LOCKER ROOM OFFICE | 2023-01-24 @ 12:00 pm | 2023-01-27 @ 1:00 pm | 0.7 ± 0.4 | 2023-01-31 |
| 11288733 | DANCE STUDIO D118 | 2023-01-24 @ 12:00 pm | 2023-01-27 @ 11:00 am | 0.9 ± 0.4 | 2023-01-31 |
| 11288741 | E-102 | 2023-01-24 @ 1:00 pm | 2023-01-27 @ 10:00 am | < 0.3 | 2023-01-31 |
| 11288765 | E-105 | 2023-01-24 @ 2:00 pm | 2023-01-27 @ 11:00 am | 0.7 ± 0.3 | 2023-01-31 |

Radon test result report for:**MAIN**

| Kit # | Room Id | Started | Ended | pCi/L | Analyzed |
|----------|---------|-----------------------|-----------------------|-----------|------------|
| 11288719 | E-106 | 2023-01-24 @ 12:00 pm | 2023-01-27 @ 11:00 am | 0.5 ± 0.4 | 2023-01-31 |
| 11288721 | E-108 | 2023-01-24 @ 12:00 pm | 2023-01-27 @ 11:00 am | < 0.3 | 2023-01-31 |
| 11288758 | E-109 | 2023-01-24 @ 2:00 pm | 2023-01-27 @ 1:00 pm | 0.5 ± 0.4 | 2023-01-31 |
| 11288744 | E-110 | 2023-01-24 @ 2:00 pm | 2023-01-27 @ 10:00 am | < 0.3 | 2023-01-31 |
| 11288702 | E-111 | 2023-01-24 @ 12:00 pm | 2023-01-27 @ 10:00 am | < 0.3 | 2023-01-31 |
| 11288722 | E-113 | 2023-01-24 @ 12:00 pm | 2023-01-27 @ 1:00 pm | 0.6 ± 0.3 | 2023-01-31 |
| 11288713 | E-114 | 2023-01-24 @ 12:00 pm | 2023-01-27 @ 10:00 am | < 0.3 | 2023-01-31 |
| 11288718 | E-114 | 2023-01-24 @ 12:00 pm | 2023-01-27 @ 10:00 am | < 0.3 | 2023-01-31 |
| 11288705 | E-115 | 2023-01-24 @ 12:00 pm | 2023-01-27 @ 1:00 pm | < 0.3 | 2023-01-31 |
| 11288725 | E-116 | 2023-01-24 @ 1:00 pm | 2023-01-27 @ 10:00 am | 0.9 ± 0.4 | 2023-01-31 |
| 11288728 | E-116B | 2023-01-24 @ 1:00 pm | 2023-01-27 @ 10:00 am | 1.3 ± 0.4 | 2023-01-31 |
| 11288729 | E-116C | 2023-01-24 @ 1:00 pm | 2023-01-27 @ 10:00 am | 1.3 ± 0.4 | 2023-01-31 |
| 11288747 | E-117 | 2023-01-24 @ 1:00 pm | 2023-01-27 @ 10:00 am | < 0.3 | 2023-01-31 |
| 11288745 | E-118 | 2023-01-24 @ 1:00 pm | 2023-01-27 @ 10:00 am | 1.1 ± 0.4 | 2023-01-31 |
| 11288746 | E-118 | 2023-01-24 @ 1:00 pm | 2023-01-27 @ 10:00 am | 0.9 ± 0.4 | 2023-01-31 |
| 11288772 | E-210 | 2023-01-24 @ 2:00 pm | 2023-01-27 @ 12:00 pm | 0.6 ± 0.4 | 2023-01-31 |
| 11288763 | E107 | 2023-01-24 @ 2:00 pm | 2023-01-27 @ 1:00 pm | < 0.3 | 2023-01-31 |
| 11288706 | E114 | 2023-01-24 @ 12:00 pm | 2023-01-27 @ 10:00 am | < 0.3 | 2023-01-31 |
| 11288748 | F-101 | 2023-01-24 @ 1:00 pm | 2023-01-27 @ 10:00 am | < 0.3 | 2023-01-31 |
| 11288740 | F-103 | 2023-01-24 @ 1:00 pm | 2023-01-27 @ 10:00 am | < 0.3 | 2023-01-31 |
| 11288731 | F-104 | 2023-01-24 @ 1:00 pm | 2023-01-27 @ 10:00 am | 1.5 ± 0.4 | 2023-01-31 |
| 11288735 | F-105 | 2023-01-24 @ 1:00 pm | 2023-01-27 @ 10:00 am | 1.0 ± 0.4 | 2023-01-31 |
| 11288730 | F-106 | 2023-01-24 @ 1:00 pm | 2023-01-27 @ 10:00 am | 1.1 ± 0.4 | 2023-01-31 |
| 11288742 | F-107 | 2023-01-24 @ 1:00 pm | 2023-01-27 @ 10:00 am | 0.6 ± 0.3 | 2023-01-31 |
| 11288738 | F-108 | 2023-01-24 @ 1:00 pm | 2023-01-27 @ 10:00 am | < 0.3 | 2023-01-31 |
| 11288739 | F-108 | 2023-01-24 @ 1:00 pm | 2023-01-27 @ 10:00 am | < 0.3 | 2023-01-31 |
| 11288732 | F-108 | 2023-01-24 @ 1:00 pm | 2023-01-27 @ 10:00 am | 0.8 ± 0.4 | 2023-01-31 |
| 11288736 | F-109 | 2023-01-24 @ 1:00 pm | 2023-01-27 @ 10:00 am | 0.8 ± 0.4 | 2023-01-31 |
| 11288743 | F-113 | 2023-01-24 @ 1:00 pm | 2023-01-27 @ 10:00 am | < 0.3 | 2023-01-31 |
| 11288777 | F-208 | 2023-01-24 @ 2:00 pm | 2023-01-27 @ 12:00 pm | < 0.3 | 2023-01-31 |
| 11288737 | F116B | 2023-01-24 @ 1:00 pm | 2023-01-27 @ 10:00 am | 1.3 ± 0.4 | 2023-01-31 |
| 11288750 | G-1 | 2023-01-24 @ 2:00 pm | 2023-01-27 @ 10:00 am | 0.7 ± 0.4 | 2023-01-31 |
| 11288749 | G-101 | 2023-01-24 @ 1:00 pm | 2023-01-27 @ 10:00 am | 0.9 ± 0.4 | 2023-01-31 |
| 11288754 | G-105 | 2023-01-24 @ 1:00 pm | 2023-01-27 @ 10:00 am | < 0.3 | 2023-01-31 |
| 11288756 | G-106 | 2023-01-24 @ 1:00 pm | 2023-01-27 @ 10:00 am | 0.5 ± 0.4 | 2023-01-31 |
| 11288755 | G-108 | 2023-01-24 @ 1:00 pm | 2023-01-27 @ 10:00 am | 0.6 ± 0.4 | 2023-01-31 |
| 11288757 | G-109 | 2023-01-24 @ 1:00 pm | 2023-01-27 @ 10:00 am | 0.6 ± 0.3 | 2023-01-31 |

Radon test result report for:**MAIN**

| Kit # | Room Id | Started | Ended | pCi/L | Analyzed |
|----------|-----------------------|-----------------------|-----------------------|-----------|------------|
| 11288761 | G-11 | 2023-01-24 @ 2:00 pm | 2023-01-27 @ 10:00 am | 0.5 ± 0.3 | 2023-01-31 |
| 11288751 | G-110 | 2023-01-24 @ 1:00 pm | 2023-01-27 @ 9:00 am | < 0.3 | 2023-01-31 |
| 11288753 | G-111 | 2023-01-24 @ 1:00 pm | 2023-01-27 @ 10:00 am | 1.4 ± 0.4 | 2023-01-31 |
| 11288752 | G-111 | 2023-01-24 @ 1:00 pm | 2023-01-27 @ 10:00 am | 0.9 ± 0.4 | 2023-01-31 |
| 11288766 | G-12 | 2023-01-24 @ 2:00 pm | 2023-01-27 @ 10:00 am | < 0.3 | 2023-01-31 |
| 11288759 | G-2 | 2023-01-24 @ 2:00 pm | 2023-01-27 @ 10:00 am | < 0.3 | 2023-01-31 |
| 11288776 | G-202 | 2023-01-24 @ 2:00 pm | 2023-01-27 @ 12:00 pm | 0.7 ± 0.4 | 2023-01-31 |
| 11288767 | G-3 | 2023-01-24 @ 2:00 pm | 2023-01-27 @ 10:00 am | 2.1 ± 0.4 | 2023-01-31 |
| 11288762 | G-8 | 2023-01-24 @ 2:00 pm | 2023-01-27 @ 10:00 am | 2.7 ± 0.4 | 2023-01-31 |
| 11288760 | G-8 | 2023-01-24 @ 2:00 pm | 2023-01-27 @ 10:00 am | 3.1 ± 0.4 | 2023-01-31 |
| 11288764 | G-8 | 2023-01-24 @ 2:00 pm | 2023-01-27 @ 10:00 am | < 0.3 | 2023-01-31 |
| 11288712 | GYM | 2023-01-24 @ 12:00 pm | 2023-01-27 @ 11:00 am | 1.2 ± 0.4 | 2023-01-31 |
| 11634414 | KITCHEN OFFICE B-120B | 2023-01-24 @ 10:00 am | 2023-01-27 @ 9:00 am | 0.8 ± 0.3 | 2023-01-31 |
| 11634429 | MAIN OFFICE A101 | 2023-01-24 @ 9:00 am | 2023-01-27 @ 9:00 am | < 0.3 | 2023-01-31 |
| 11288770 | MEDIA CENTER | 2023-01-24 @ 2:00 pm | 2023-01-27 @ 12:00 pm | < 0.3 | 2023-01-31 |
| 11288770 | MEDIA CENTER | 2023-01-24 @ 2:00 pm | 2023-01-27 @ 12:00 pm | < 0.3 | 2023-01-31 |
| 11288769 | MEDIA CENTER | 2023-01-24 @ 2:00 pm | 2023-01-27 @ 12:00 pm | < 0.3 | 2023-01-31 |

February 20, 2023

**** LABORATORY ANALYSIS REPORT ****

Radon test result report for:
SPRINGBROOK HS
1

| Kit # | Room Id | Started | Ended | pCi/L | Analyzed |
|--------------|----------------|----------------------|-----------------------|--------------|-----------------|
| 11633977 | GYM | 2023-02-14 @ 9:00 am | 2023-02-17 @ 10:00 am | 1.9 ± 0.3 | 2023-02-20 |
| 11633985 | GYM | 2023-02-14 @ 9:00 am | 2023-02-17 @ 10:00 am | 1.9 ± 0.3 | 2023-02-20 |
| 11634977 | GYM | 2023-02-14 @ 9:00 am | 2023-02-17 @ 10:00 am | 1.8 ± 0.3 | 2023-02-20 |
| 11634978 | GYM | 2023-02-14 @ 9:00 am | 2023-02-17 @ 10:00 am | < 0.3 | 2023-02-20 |

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 208802

NOMINAL Conditions: Radon Conc 24.4 pCi/L Rel. Hum 48.6 % Temp. 79.3 F

Date Start: 1/27/23 Date Stop: 1/30/23 Date Start: _____ Date Stop: _____

Time Start: 0816 Time Stop: 0816 Time Start: _____ Time Stop: _____

Device No.'s: (5) CHAR BAGS Device No.'s: _____

11633682, 11633687, 11633688 _____

11633695, 11633696 _____

P3 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 µR/h Elevation = 820 ft**

February 3, 2023

**** LABORATORY ANALYSIS REPORT ****

Radon test result report for:

OFFICE

MAIN

| Kit # | Room Id | Started | Ended | pCi/L | Analyzed |
|--------------|----------------|----------------------|----------------------|--------------|-----------------|
| 11633696 | SK10 | 2023-01-27 @ 8:00 am | 2023-01-30 @ 8:00 am | 24.2 ± 1.9 | 2023-02-03 |
| 11633682 | SK6 | 2023-01-27 @ 8:00 am | 2023-01-30 @ 8:00 am | 26.9 ± 2.1 | 2023-02-03 |
| 11633687 | SK7 | 2023-01-27 @ 8:00 am | 2023-01-30 @ 8:00 am | 23.8 ± 1.9 | 2023-02-03 |
| 11633688 | SK8 | 2023-01-27 @ 8:00 am | 2023-01-30 @ 8:00 am | 25.9 ± 2.1 | 2023-02-03 |
| 11633695 | SK9 | 2023-01-27 @ 8:00 am | 2023-01-30 @ 8:00 am | 27.0 ± 2.2 | 2023-02-03 |

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



Radon Test Kit Chain of Custody

Project Name: MCPS Radon – Week 2 Retesting January Schools

Name of Schools:

1. A. Mario Loiederman MS
2. Cannon Road ES
3. Forest Knolls ES
4. Glen Haven ES
5. Goshen ES
6. Highland View ES
7. John F. Kennedy HS
8. Lakelands Park MS
9. Montgomery Village MS
10. Poolesville HS
11. Springbrook HS

| | Date | Initials |
|----------------------------------|------------|----------|
| Radon Test Kits Deployed | 02/14/2023 | BMMU |
| Radon Test Kits Collected | 02/17/2023 | BMMU |
| Radon Test Kits Shipped to Lab* | 02/17/2023 | BMMU |
| Radon Test Kits Received by Lab* | 02/20/2023 | BMMU |

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



Soil and Land Use Technology, Inc.

1818 New York NE, Suite 231 • Washington, DC 20002

(301) 595-3783
www.SaLUTinc.com

MCPS RADON TESTING - EXECUTIVE SUMMARY

| | |
|--------------------------|--|
| Site Name | Springbrook High School |
| Date of Report | 2/9/2021 |
| Round of Testing | Initial Follow-up Post Remediation 2 year testing 5 year testing HVAC Upgrade Window Replacement New Addition New Facility |
| # of Rooms Tested | 5 |
| # Rooms ≥ 4.0 pCi/L | 0 |
| Lowest Value | <0.3 pCi/L |
| Highest Value | 3.8 pCi/L |

Project Status

Current Project Status at this time: Testing Complete.



Soil and Land Use Technology, Inc.

(301) 595-3783
1818 New York NE, Suite 231 • Washington, DC 20002

www.SaLUTinc.com

2/9/2021

Brian Croyle, PG, CHMM
Environmental Specialist
Environmental Services/Indoor Air Quality
Montgomery County Public Schools
Division of Sustainability and Compliance
Gaithersburg, Maryland 20879

Re: Radon Testing Services

SaLUT Job #20-173

Location: Springbrook High School

201 Valley Brook Drive
Silver Spring, MD 20904

Dear Mr. Croyle:

Soil and Land Use Technology, Inc. (SaLUT) is pleased to submit the following report to Montgomery County Public Schools pursuant to completing a “Post Remediation radon test for the Springbrook High School, located at 201 Valley Brook Drive, Silver Spring, MD 20904 (subject site).

SCOPE OF SERVICES

SaLUT 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. SaLUT 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*. Additional information on radon management and the health effects of radon exposure is available from www.montgomerycountymd.gov/dep/air/radon or www.epa.gov/radon.

SaLUT visited the site on 1/26/2021 and deployed seven (7) activated charcoal (AC) radon test kits. SaLUT deployed radon test kits in remediated 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.

As a quality control measure, SaLUT included duplicate samples, field blanks, lab transit blanks, and office blanks in accordance with AARST recommendations. In addition, SaLUT submitted one (1) test kit 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.

SaLUT returned to the site on 1/29/2021 to retrieve the radon sampling test kits. SaLUT shipped all radon tests via overnight delivery to EMSL Analytical, Inc. for analysis by gamma-ray spectroscopy. EMSL Analytical, Inc. is a National Radon Safety Board (NRSB) radon measurement provider and is a certified analytical laboratory for radon analysis (certification #109000 AL) located at 200 Route 130 North, Cinnaminson, NJ 08077.

EVALUATION OF TESTING CONDITIONS

These tests represent:

- Post Remediation 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, SaLUT concludes that this test was conducted during ideal testing conditions.

SaLUT 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.

SaLUT 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 and high temperatures were in the mid-40s. Maximum sustained winds ranged from 5-22 miles per hour. Average humidity was around 68%. <1.0 inches of precipitation (rain) was recorded during the testing period.

RESULTS

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

The results of the radon test analysis indicated the following:

| Radon Concentration | Room | Result |
|----------------------------|------------------|------------------|
| ≥4.0 pCi/L | N/A | 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 301-595-3783.

Sincerely,

Mark McGrath

Soil and Land Use Technology, Inc. (SaLUT)
1818 New York Avenue, NE, Suite 231
Washington, DC 20002
202-446-7211 Mobile
301-595-3783
202-379-9504 fax

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

D- Duplicate

FB- Field Blank

OB- Office Blank

PM- Project Manager

QC- Quality Control

| Table 1- Radon Testing Results | | |
|----------------------------------|-------------|--------|
| Springbrook High School | | |
| Test Period: 1/26/2021-1/29/2021 | | |
| | | |
| Kit Number | Room / Area | Result |
| 445832 | Gym | 2.4 |
| 445875 | Gym | 1.3 |
| 445851 | Gym Closet | 1.8 |
| 445193 | Weight Room | 2 |
| 445154 | Weight Room | -0.1 |
| 445224 | G-111 | 3.8 |
| 445236 | G-111A | 3.2 |

| Table 2- Radon Testing Results | | | |
|----------------------------------|---------------|-------------|--------|
| Springbook High School | | | |
| Test Period: 1/26/2021-1/29/2021 | | | |
| | | | |
| Kit Number | QC Type | Room / Area | Result |
| 440197 | FB | Weight Room | -0.1 |
| 429687 | D | Gym | 1.3 |
| 9346867 | TRANSIT BLANK | N/A | 0.0 |

ATTACHMENT C

Laboratory Analytical Results

**EMSL Analytical, Inc.**

200 Route 130 North, Cinnaminson, NJ 08077
 Phone/Fax: (800) 220-3675 / (856) 786-0327
<http://www.EMSL.com> cinnaminsonradonlab@emsl.com

EMSL Order: 382100960
 CustomerID: SALU50
 CustomerPO:
 ProjectID:

Attn: **Indika Jayatilake**
SaLUT
1818 New York Avenue, NE
Suite 231
Washington, DC 20002

Phone: (301) 595-3783
 Fax: (301) 595-3787
 Received: 2/1/2021 10:20 AM
 Analysis Date: 2/2/2021
 Collected: 1/26/2021

Project: 201 Valley Brook Drive

Test Site: 201 Valley Brook Drive
 Silver Spring, MD 20904

Test Report: Radon in Air Test Results**Samples for EMSL Kit 254592**

| Liquid Scintillation ID | Location | Radon Activity pCi/L | Start | Stop | Temperature F | Humidity % | Sample Type |
|-------------------------|----------|-------------------------|------------|-------------|------------------|---------------|-------------|
| 445832 | Gym | 2.4 | 1/26/2021 | 1/29/2021 | 70 | 24 | Customer |
| 382100960-0001 | | | 9:59:00 AM | 10:28:00 AM | | | |

Sample Notes:

| | | | | | | | |
|----------------|-----|-----|------------|-------------|----|----|-----------|
| 445875 | Gym | 1.3 | 1/26/2021 | 1/29/2021 | 70 | 24 | Duplicate |
| 382100960-0002 | | | 9:59:00 AM | 10:28:00 AM | | | |

Sample Notes:

Duplicate RPD = 59.5%

Samples for EMSL Kit 254593

| Liquid Scintillation ID | Location | Radon Activity pCi/L | Start | Stop | Temperature F | Humidity % | Sample Type |
|-------------------------|------------|-------------------------|-------------|-------------|------------------|---------------|-------------|
| 445851 | Gym Closet | 1.8 | 1/26/2021 | 1/29/2021 | 70 | 42 | Customer |
| 382100960-0003 | | | 10:00:00 AM | 10:30:00 AM | | | |

Sample Notes:**Samples for EMSL Kit 254595**

| Liquid Scintillation ID | Location | Radon Activity pCi/L | Start | Stop | Temperature F | Humidity % | Sample Type |
|-------------------------|-------------|-------------------------|-------------|-------------|------------------|---------------|-------------|
| 445193 | Weight Room | 2 | 1/26/2021 | 1/29/2021 | 68 | 40 | Customer |
| 382100960-0004 | | | 10:04:00 AM | 10:32:00 AM | | | |

Sample Notes:

| | | | | | | | |
|----------------|-------------|------|-------------|-------------|----|----|-------|
| 445154 | Weight Room | -0.1 | 1/26/2021 | 1/29/2021 | 68 | 40 | Blank |
| 382100960-0005 | | | 10:04:00 AM | 10:32:00 AM | | | |

Sample Notes:**Samples for EMSL Kit 254596**

| Liquid Scintillation ID | Location | Radon Activity pCi/L | Start | Stop | Temperature F | Humidity % | Sample Type |
|-------------------------|------------|-------------------------|-------------|-------------|------------------|---------------|-------------|
| 445224 | Room G-111 | 3.8 | 1/26/2021 | 1/29/2021 | 70 | 50 | Customer |
| 382100960-0006 | | | 10:10:00 AM | 10:23:00 AM | | | |

Sample Notes:

**EMSL Analytical, Inc.**

200 Route 130 North, Cinnaminson, NJ 08077
 Phone/Fax: (800) 220-3675 / (856) 786-0327
<http://www.EMSL.com> cinnaminsonradonlab@emsl.com

EMSL Order: 382100960
 CustomerID: SALU50
 CustomerPO:
 ProjectID:

Attn: **Indika Jayatilake**
SaLUT
1818 New York Avenue, NE
Suite 231
Washington, DC 20002

Phone: (301) 595-3783
 Fax: (301) 595-3787
 Received: 2/1/2021 10:20 AM
 Analysis Date: 2/2/2021
 Collected: 1/26/2021

Project: **201 Valley Brook Drive**

Test Site: **201 Valley Brook Drive**
Silver Spring, MD 20904

Test Report: Radon in Air Test Results**Samples for EMSL Kit 254594**

| Liquid Scintillation ID | Location | Radon Activity pCi/L | Start | Stop | Temperature F | Humidity % | Sample Type |
|-------------------------|-------------|-------------------------|-------------|-------------|------------------|---------------|-------------|
| 445236 | Room G-111A | 3.2 | 1/26/2021 | 1/29/2021 | 65 | 50 | Customer |
| 382100960-0007 | | | 10:12:00 AM | 10:24:00 AM | | | |

Sample Notes:**Samples for EMSL Kit 252533**

| Liquid Scintillation ID | Location | Radon Activity pCi/L | Start | Stop | Temperature F | Humidity % | Sample Type |
|-------------------------|---------------|-------------------------|-------------|-------------|------------------|---------------|-------------|
| 440298 | Transit Blank | 0 | 1/26/2021 | 2/1/2021 | 70 | 50 | Blank |
| 382100960-0008 | | | 10:00:00 AM | 10:21:00 AM | | | |

Sample Notes: Radon device exposed >96 hours

The radon test was performed using a liquid scintillation radon detector/s and counted on a liquid scintillation counter using approved EPA testing protocols for Radon in Air testing. The EPA recommends fixing your home if the average of two short-term tests taken in the lowest lived-in level of the home show radon levels that are equal to or greater than 4.0pCi/L. The EPA recommends retesting your home every two years.

Please contact EMSL Analytical, Inc. or your State Health Department for further information. All procedures used for generating this report are in complete accordance with the current EPA protocols for the analysis of Radon in Air.

Report Note

Analyst(s)

Kevin Schwartz (8)

Dominic Gehret, Radiochemistry Laboratory Manager, NJ Radon
 Measurement Specialist MES 13910
 or other approved signatory

In no event shall EMSL be liable for indirect, special, consequential, or incidental damages, including, but not limited to, damages for loss of profit or goodwill regardless of the negligence (either sole or concurrent) of EMSL and whether EMSL has been informed of the possibility of such damages, arising out of or in connection with EMSL's services thereunder or the delivery, use, reliance upon or interpretation of test results by client or any third party. We accept no legal responsibility for the purposes for which the client uses the test results. In no event shall EMSL be liable to a client or any third party, whether based upon theories of tort, contract or any other legal or equitable theory, in excess of the amount paid to EMSL by client thereunder. The test results meets all NELAC requirements unless otherwise specified.

Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ FL RB2034/R2687,IL RNL2008202,IN RTL00935,IA RNLAB10005,KS KS-LB-0005/KS-MS-0482,ME SPC202,MN RL-0005,NE 474/RMB-1083,NJ 03036/MEB92525/MES13910,NY 10872,OH RL39,OK D9952,PA 2573/3393/68-00367,RI RMB-108/RI00179,WV RL000220,NRSB-ARL6006,NRPP

Initial report from 02/04/2021 13:25:04

Please visit www.radontestinglab.com

Fedex 7960 5825 0538

EMSL Analytical, Inc.
 200 Route 130 North
 My 2D
 Cinnaminson, NJ 08077
 PHONE: 1-800-220-3675
 FAX: (856) 786-5974



EMSL ANALYTICAL, INC.
 LABORATORY PRODUCTS TRAINING

Radon Testing Chain of Custody

EMSL Order Number (Lab Use Only):

EMSL
 CINNAMINSON, N.J. 382100960

2021 JAN 32 A 10:21
 KS

Company: SaLUT
 Street: 1818 New York Avenue, NE Suite 231
 City: Washington State/Province: DC Zip/Postal Code: 20002 Country: US
 Report To (Name): Indika Jayatilake Fax #: 301-595-3787
 Telephone #: 301-595-3783 Email Address: ijayatilake@salutinc.com
 Project Name/Number: MCPS
 Please Provide Results: Fax Email Mail Purchase Order: U.S. State Samples Taken: MD

Project Property Information

Project Name:
 Project Address: 201 Valley Brook Dr.
 City: Silver Spring State: MD Zip Code: 20904
 County: Municipality:
 Technician Name: Mark M. Technician Cert #: Technician Signature: *Mark M.*

New Jersey Testing Information

NJDEP Laboratory Certification # 03036 NJDEP Radon Business Certification # MEB92525

1.) Is the radon test being conducted for the purpose of: Real Estate Transaction Homeowner Testing Other
 2.) Test Conditions observed? Closed House Open House
 3.) What is the building type? Residential Non-Residential Daycare School
 4.) What is the building foundation type? Basement Crawlspace Slab on Grade Other
 5.) For School Testing, please enter: School Code Room Name/Number

| Box Number | Device Number | Location | Exposure Period Beginning Date and Time | Exposure Period Ending Date and Time | Temperature °F | Humidity, % |
|--------------|---------------|---------------|---|--------------------------------------|----------------|-------------|
| 254592 | 445832 | Gym | 1/26/21 9:59 | 1/29/21 10:28 | 70 | 24 |
| DUP 254592 | 445875 | Gym | 1/26/21 9:59 | 1/29/21 10:28 | 70 | 24 |
| 254593 | 445851 | Gym Closet | 1/26/21 10:00 | 1/29/21 10:30 | 70 | 42 |
| 254595 | 445193 | Weight Room | 1/26/21 10:04 | 1/29/21 10:32 | 68 | 40 |
| Blank 254595 | 445154 | Weight Room | 1/26/21 10:04 | 1/29/21 10:32 | 68 | 40 |
| 254596 | 445224 | Room G-111 | 1/26/21 10:10 | 1/29/21 10:23 | 70 | 50 |
| 254594 | 445236 | Room G-111A | 1/26/21 10:12 | 1/29/21 10:24 | 65 | 50 |
| 252533 | 440298 | Transit Blank | 1/26/21 10:00 | | 70 | 50 |

Client Sample # (s): - Total # of Samples:
 Relinquished (Client): Date: Time:
 Received (Lab): Date: Time:
 Comments/Special Instructions:



MONTGOMERY COUNTY PUBLIC SCHOOLS RADON TESTING

Executive Summary: Springbrook High School

201 Valley Brook Drive
Silver Spring, MD 20904

| | |
|------------------------------|---|
| Date of Test Report: | 3/29/2019 |
| Round of Testing: | Initial Follow-up Post Remediation 2 Year Testing 5 Year Testing HVAC Upgrade Window Replacement New Addition New Facility |
| # of Rooms Tested: | 6 |
| # of Rooms \geq 4.0 pCi/L: | 0 |
| Low Value: | <0.4 |
| High Value: | 1.8 |

Project Status

Missing Samples: Room E116

Current Project Status at this time: Retesting completed; remediation recommended for Room E116.



March 29, 2019

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

Re: Radon Testing Services

Location: Springbrook High School
201 Valley Brook Drive,
Silver Spring, MD 20904

Dear Mr. Cox:

Intertek-PSI (PSI) is pleased to submit the following report to the Montgomery County Public Schools (MCPS) for completion of a “short-term” 3-day radon test for Springbrook High School, located at 201 Valley Brook Drive, Silver Spring, MD 20904 (subject site).

Scope of Services:

PSI conducted radon testing at the subject site to evaluate indoor radon levels relative to the USEPA's recommended action level of 4.0 picocuries per Liter (pCi/L) - the level at which EPA recommends that schools take action to reduce the level. PSI conducted the radon testing in accordance with American Association of Radon Scientists and Technologists (AARST) Protocol for Conducting Measurements of Radon and Radon Decay Products in Schools and Large Buildings. A National Radon Safety Board (NRSB) Radon Measurement Specialist (certification #14SS007) supervised the testing. Additional information on radon management and the health effects of radon exposure is available from www.montgomerycountymd.gov/dep/air/radon or www.epa.gov/radon.

PSI visited the site on February 25, 2019 and deployed seven (7) activated charcoal (AC) radon test kit. PSI deployed radon test kits in frequently-occupied ground contact rooms, and other areas, (if applicable) in accordance with AARST guidance. PSI returned to the site on February 28, 2019 to retrieve the radon sampling test kit. A floor plan map of the building with the test location is included as Attachment A of this report.

PSI shipped all radon tests via overnight delivery to AccuStar Labs for analysis by gamma-ray spectroscopy. Accustar Labs is a NRSB certified analytical laboratory for radon analysis located at 929 Mount Zion Road, Lebanon, Pennsylvania (certification # ARL0007).

Evaluation of Testing Conditions:

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

PSI concludes that the test period reasonably represents normal conditions when the building is significantly



occupied. Clear characterization of the radon hazard is most likely to be observed under this normal operating condition. Based on the evaluation of test conditions, this test should reasonably characterize radon hazards.

PSI also conducted observations of field conditions which could affect the results of the test and compiled weather data for the testing period. PSI recorded observations of the following conditions in each room at the time of deployment and collection of the radon test kits:

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

Results:

The results of the radon test analysis indicated the following:

| Radon Concentration | Room | Result |
|---------------------|------------------|--------|
| ≥ 4.0 pCi/L | None | NA |
| ≤ 4.0 pCi/L | See Attachment B | |

Notes:
D -Duplicate Sample

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

The sampling locations, field observations, and analytical results are listed on Table 1 (Attachment B). The laboratory analytical results are also attached (Attachment C).

Laboratory results and exposure data for the spike samples are also included in Attachment C. Our professional services have been performed in accordance with customary principles and practices in the field of industrial hygiene and engineering. If you have any questions or comments regarding this report, please feel free to contact me at (703) 698-9300.



Respectfully Submitted,

INTERTEK-PSI

A handwritten signature in black ink that reads "Nand Kaushik".

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

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

ATTACHMENT B

Radon Test Summary Spreadsheet

| Radon Testing Results | | |
|--|--------------------|-----------------------|
| Springbrook High School | | |
| Testing period: 02/25/19 - 02/28/19 | | |
| Kit Number | Room / Area | Result (pCi/L) |
| 3923476 | Room 112 | 0.6 |
| 3923473 | Room F112 | <0.4 |
| 3923474 | Room F109 | 1.0 |
| 3923471 | Room G12 | <0.4 |
| 3923453 | Room B122 | <0.4 |
| 3923472 | Room B122 (D) | <0.4 |
| 3923460 | Auditorium | 1.0 |
| 3923472 | Auditorium (D) | <0.4 |
| 3923452 | E116 (Missing) | -- |

Table Notes:

D – Duplicate

FB – Field Blank

OB – Office Blank

TB – Transit Blank

QC – Quality Control

ATTACHMENT C

Laboratory Analytical Results

NRPP 105011 AL
NRSB ARL0007

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

Laboratory Report for:

Property Tested: Project # 04481387-1

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

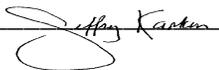
MCPS Radon Survey Springbrook HS
201 Valley Brook Drive
Silver Spring MD 20904

| Log Number | Device Number | Test Exposure | Duration: | Area Tested | Result pCi/L |
|------------|---------------|--------------------|--------------------|--------------------------------|--------------|
| 3220662 | 3923476 | 02/25/2019 1:20 pm | 02/28/2019 1:00 pm | Floor Main Room 112 | 0.6 |
| 3220663 | 3923473 | 02/25/2019 1:24 pm | 02/28/2019 1:01 pm | Floor Main Room F112 | < 0.4 |
| 3220664 | 3923474 | 02/25/2019 1:26 pm | 02/28/2019 1:02 pm | Floor Main Room F109 | 1.0 |
| 3220665 | 3923471 | 02/25/2019 1:35 pm | 02/28/2019 1:04 pm | Floor Main Room G12 | < 0.4 |
| 3220666 | 3923453 | 02/25/2019 1:42 pm | 02/28/2019 1:05 pm | Floor Main Room B122 | < 0.4 |
| 3220667 | 3923472 | 02/25/2019 1:42 pm | 02/28/2019 1:06 pm | Floor Main Room B122 Duplicate | < 0.4 |
| 3220668 | 3923460 | 02/25/2019 1:46 pm | 02/28/2019 1:07 pm | Floor Main Room Auditorium | 1.0 |

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

Distributed by: Intertek-PSI (VA)

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

Report Reviewed By: 

Report Approved By: 

Disclaimer:

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

Shawn Price, Director of Laboratory Operations, AccuStar Labs

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



MCPS RADON TESTING - EXECUTIVE SUMMARY

| | |
|--------------------------|---|
| Site Name | Springbrook High School |
| Date of Report | 3/5/2020 |
| Round of Testing | Initial Follow-up Post Remediation 2 year testing 5 year testing HVAC Upgrade Window Replacement New Addition New Facility |
| # of Rooms Tested | 4 |
| # Rooms \geq 4.0 pCi/L | 0 |
| Lowest Value | <0.3 pCi/L |
| Highest Value | 3.6 pCi/L |

Project Status

Current Project Status at this time: Retesting completed; no further action.



3/5/2020

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: Springbrook High School

201 Valleybrook Drive
Silver Spring, Maryland 20904

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 Springbrook High School, located at 201 Valleybrook Drive in Silver Spring, Maryland 20904 (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 or www.epa.gov/radon.

KCI visited the site on 2/18/2020 and deployed six (6) 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),

-
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. ≥ 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 nine (9) 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 2/21/2020 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 lower-40s; and high temperatures ranged from the upper-30s to the upper-50s. Maximum sustained winds ranged from 13-21 miles per hour. Average humidity was approximately 50%. A total of .01 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 | | |
|--------------------------------|---------------|--------|
| Springbrook High School | | |
| Test Period: 02/18/20-02/21/20 | | |
| | | |
| Kit Number | Room / Area | Result |
| 9348525 | G111 | 3.5 |
| 9348531 | TEAM OFFICE 1 | 1.3 |
| 9348549 | GYM D104 | 2.5 |
| 9348567 | GYM D104 | 3.6 |
| 9348568 | WEIGHT ROOM | 3 |
| 9348571 | OFFICE BLANK | < 0.3 |

| Table 2- Radon Testing Results | | | |
|--------------------------------|---------------|-------------|--------|
| Springbrook High School | | | |
| Test Period: 02/18/20-02/21/20 | | | |
| | | | |
| Kit Number | QC Type | Room / Area | Result |
| 9348506 | TRANSIT BLANK | NA | < 0.3 |

ATTACHMENT C

Laboratory Analytical Results

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 |

March 5, 2020

**** 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 |
|--------------|----------------|----------------------|----------------------|----------------|-----------------|
| 9341733 | | 2020-02-21 @ 8:00 am | 2020-02-24 @ 8:00 am | 26.4 \pm 1.6 | 2020-02-26 |

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

March 5, 2020

**** LABORATORY ANALYSIS REPORT ****

Radon test result report for:

S

N/A

| Kit # | Room Id | Started | Ended | pCi/L | Analyzed |
|--------------|----------------|----------------------|----------------------|--------------|-----------------|
| 9341729 | N/A | 2020-02-21 @ 8:00 am | 2020-02-24 @ 8:00 am | 26.2 ± 1.6 | 2020-02-26 |
| 9341727 | N/A | 2020-02-21 @ 8:00 am | 2020-02-24 @ 8:00 am | 27.2 ± 1.6 | 2020-02-26 |
| 9341732 | N/A | 2020-02-21 @ 8:00 am | 2020-02-24 @ 8:00 am | 27.3 ± 1.6 | 2020-02-26 |
| 9341725 | N/A | 2020-02-21 @ 8:00 am | 2020-02-24 @ 8:00 am | 26.9 ± 1.6 | 2020-02-26 |
| 9341730 | N/A | 2020-02-21 @ 8:00 am | 2020-02-24 @ 8:00 am | 26.1 ± 1.6 | 2020-02-26 |
| 9341728 | N/A | 2020-02-21 @ 8:00 am | 2020-02-24 @ 8:00 am | 26.9 ± 1.6 | 2020-02-26 |
| 9341726 | N/A | 2020-02-21 @ 8:00 am | 2020-02-24 @ 8:00 am | 25.8 ± 1.5 | 2020-02-26 |
| 9341731 | N/A | 2020-02-21 @ 8:00 am | 2020-02-24 @ 8:00 am | 25.1 ± 1.5 | 2020-02-26 |

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 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 μ R/h Elevation = 820 ft



Radon Test Kit Chain of Custody

Project Name: MCPS Radon 2019 Week 3

Name of Schools:

1. Bannockburn E.S.
2. Bradley Hills E.S.
3. East Silver Spring E.S.
4. Einstein H.S.
5. Flora M. Singer E.S.
6. Francis Scott Key M.S.
7. Jones Lane E.S
8. Montgomery Blair H.S.
9. Oak View E.S.
10. Redland M.S.
11. Springbrook H.S.

| | Date | Initials |
|----------------------------------|---------|----------|
| Radon Test Kits Deployed | 2/18/20 | |
| Radon Test Kits Collected | 2/21/20 | |
| Radon Test Kits Shipped to Lab* | 2/21/20 | |
| Radon Test Kits Received by Lab* | 2/24/20 | |

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



MCPS RADON TESTING - EXECUTIVE SUMMARY

| | |
|--------------------------|--|
| Site Name | Springbrook High School |
| Date of Report | 2/21/2020 |
| Round of Testing | Initial Follow-up Post Remediation 2 year testing 5 year testing HVAC Upgrade Window Replacement New Addition New Facility |
| # of Rooms Tested | 118 |
| # Rooms \geq 4.0 pCi/L | 0 |
| Lowest Value | <0.3 pCi/L |
| Highest Value | 3.6 pCi/L |

Project Status

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



2/21/2020

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: Springbrook High School

201 Valleybrook Drive
Silver Spring, Maryland 20904

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 Springbrook High School, located at 201 Valleybrook Drive in Silver Spring, Maryland 20904 (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 www.montgomerycountymd.gov/dep/air/radon or www.epa.gov/radon.

KCI visited the site on 1/6/2020 and deployed one-hundred fifty-six 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.

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 1/9/2020 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 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 and post-mitigation testing.

These tests were conducted to:

- Evaluate radon concentrations following the installation of a new HVAC system.

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 upper-20s and high temperatures were in the mid-50s. Maximum sustained winds ranged from 10-23 miles per hour. Average humidity was around 64%. 0.32 inches of precipitation (rain) was recorded during the testing period.

RESULTS

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

The results of the radon test analysis indicated the following:

| Radon Concentration | Room | Result |
|----------------------------|------------------|------------------|
| ≥4.0 pCi/L | None | N/A |
| ≤4.0 pCi/L | See Attachment B | 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
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 | | |
|--------------------------------|---------------|--------|
| Springbrook High School | | |
| Test Period: 1/6/2020-1/9/2020 | | |
| Kit Number | Room / Area | Result |
| 9347044 | G-307 | 0.8 |
| 9347045 | G-209 | 1.1 |
| 9347046 | C-206 | 2 |
| 9347047 | E-206 | < 0.3 |
| 9347048 | E-206 | < 0.3 |
| 9347049 | F-201 | < 0.3 |
| 9347050 | F-209 | < 0.3 |
| 9347051 | G-202 | < 0.3 |
| 9347052 | G-202 | 0.8 |
| 9347053 | STAGE | 2.1 |
| 9347054 | STAGE | 2.1 |
| 9347055 | AUDITORIUM | 2.1 |
| 9347056 | AUDITORIUM | 2.4 |
| 9347057 | AUDITORIUM | 1.4 |
| 9347058 | AUDITORIUM | 1.7 |
| 9347059 | D-1 AUX GYM 1 | 1.8 |
| 9347060 | D-101 | 0.9 |
| 9347061 | D-108-PR | 0.9 |
| 9347062 | D-108-H | 0.9 |
| 9347063 | D-103 | 1.7 |
| 9347064 | D-108 | 0.6 |
| 9347065 | D-108-A | < 0.3 |
| 9347066 | D-1 AUX GYM 1 | 1.4 |
| 9347067 | D-107-G | 1 |
| 9347068 | TRAINER | 2 |
| 9347069 | D-107-G | 1.1 |
| 9347070 | D-107 | 0.9 |
| 9347071 | WEIGHT ROOM | 3 |
| 9347072 | D-104 | 3.6 |
| 9347073 | D-102 | 1.2 |
| 9347074 | D-104 | 3.3 |
| 9347075 | D-104 | 3.3 |
| 9347076 | D-104 | 3.6 |
| 9347077 | D-105 | 2.6 |
| 9347078 | TRAINER | < 0.3 |
| 9347079 | WEIGHT ROOM | 2.5 |
| 9347080 | C-102 | 0.8 |
| 9347081 | C-102-A | < 0.3 |
| 9347082 | C-101 | < 0.3 |
| 9347083 | E-109 | < 0.3 |
| 9347084 | C-101-A | < 0.3 |
| 9347085 | C-101-S | < 0.3 |

| | | |
|---------|----------------|-------|
| 9347086 | C-101-B | 0.7 |
| 9347087 | C-101-A | < 0.3 |
| 9347088 | C-101-G | < 0.3 |
| 9347089 | C-101-D | < 0.3 |
| 9347090 | C-102-D | < 0.3 |
| 9347091 | C-101-R | 0.6 |
| 9347092 | C-101-H | < 0.3 |
| 9347094 | C-101-K | < 0.3 |
| 9347095 | C-101-M | 1.2 |
| 9347096 | C-101-L | < 0.3 |
| 9347097 | C-101-J | < 0.3 |
| 9347098 | C-101-E | < 0.3 |
| 9347099 | C-101-J | 0.7 |
| 9347100 | C-101-G | 0.6 |
| 9348302 | OFFICE BLANK | < 0.3 |
| 9348401 | A-103 | < 0.3 |
| 9348402 | A-103 | < 0.3 |
| 9348403 | A-102 | < 0.3 |
| 9348404 | MAIN OFFICE | < 0.3 |
| 9348405 | A-109 | < 0.3 |
| 9348406 | A-106 | < 0.3 |
| 9348407 | A-104 | 0.7 |
| 9348408 | A-114 | < 0.3 |
| 9348409 | ATTENDANCE | < 0.3 |
| 9348410 | A-106 | < 0.3 |
| 9348411 | CAFE | < 0.3 |
| 9348412 | B-122B | 0.7 |
| 9348413 | B-122A | < 0.3 |
| 9348414 | A-105 | < 0.3 |
| 9348415 | A-108 | < 0.3 |
| 9348416 | A-108 | 0.7 |
| 9348417 | BUSINESS ADMIN | < 0.3 |
| 9348418 | B-122 | < 0.3 |
| 9348419 | A-111 | 0.6 |
| 9348420 | A-112 | < 0.3 |
| 9348421 | CAFE | < 0.3 |
| 9348422 | CAFE | < 0.3 |
| 9348423 | B-117 | < 0.3 |
| 9348424 | B-118 | < 0.3 |
| 9348425 | B-120-B | < 0.3 |
| 9348426 | B-109-A | 0.6 |
| 9348427 | B-108-C | < 0.3 |
| 9348428 | B-116 | < 0.3 |
| 9348429 | B-117 | < 0.3 |
| 9348430 | B-118 | < 0.3 |
| 9348431 | B-109 | < 0.3 |
| 9348432 | B-109-B | < 0.3 |

| | | |
|---------|---------|-------|
| 9348433 | B-109 | < 0.3 |
| 9348434 | B-108 | < 0.3 |
| 9348435 | B-108 | 0.8 |
| 9348436 | B-107 | < 0.3 |
| 9348437 | B-107 | < 0.3 |
| 9348438 | B-107 | < 0.3 |
| 9348439 | B-107-C | < 0.3 |
| 9348440 | B-106 | < 0.3 |
| 9348441 | B-106-C | < 0.3 |
| 9348442 | B-105-B | < 0.3 |
| 9348443 | B-105 | < 0.3 |
| 9348444 | B-105 | < 0.3 |
| 9348445 | B-104 | 0.9 |
| 9348446 | B-104 | < 0.3 |
| 9348447 | B-104-C | < 0.3 |
| 9348448 | B-104-C | 0.6 |
| 9348449 | B-103 | < 0.3 |
| 9348450 | B-102-D | < 0.3 |
| 9348451 | B-102 | < 0.3 |
| 9348452 | B-101 | 0.5 |
| 9348453 | G-111 | 3 |
| 9348454 | G-109 | 1.2 |
| 9348455 | G-108 | 1.1 |
| 9348456 | G-107 | < 0.3 |
| 9348457 | G-105 | < 0.3 |
| 9348458 | G-110 | 0.9 |
| 9348459 | G-106 | 0.9 |
| 9348460 | G-110 | 1.2 |
| 9348461 | F-108 | 0.9 |
| 9348462 | G-12 | < 0.3 |
| 9348463 | G-8 | 2.4 |
| 9348464 | G-11 | < 0.3 |
| 9348465 | F-113 | 0.6 |
| 9348466 | G-101 | 0.7 |
| 9348467 | G-8 | 2.1 |
| 9348468 | G-1 | 0.8 |
| 9348469 | G-2 | < 0.3 |
| 9348470 | G-11 | < 0.3 |
| 9348471 | F-109 | < 0.3 |
| 9348472 | E-113 | < 0.3 |
| 9348473 | F-107 | < 0.3 |
| 9348474 | F-101 | < 0.3 |
| 9348475 | F-106 | 1.4 |
| 9348476 | F-107 | 1 |
| 9348477 | F-102 | < 0.3 |
| 9348478 | F-103 | < 0.3 |
| 9348479 | F-105 | < 0.3 |

| | | |
|---------|----------------|-------|
| 9348480 | F-104 | 0.8 |
| 9348481 | E-118 | 0.7 |
| 9348482 | E-111 | 0.7 |
| 9348483 | E-110 | 0.6 |
| 9348484 | E-113 | 0.7 |
| 9348485 | E-114 | < 0.3 |
| 9348486 | E-115 | < 0.3 |
| 9348487 | E-115 | < 0.3 |
| 9348488 | E-116 OFFICE | 1.3 |
| 9348489 | E-116 | 3 |
| 9348490 | E-117 | < 0.3 |
| 9348491 | E-106 | 1.3 |
| 9348492 | E-111 | 0.6 |
| 9348493 | C-101-O | < 0.3 |
| 9348494 | C-101-Q | 1.2 |
| 9348495 | E-111 WORKROOM | 0.8 |
| 9348496 | C-101-P | 1 |
| 9348497 | E-105 | 0.8 |
| 9348498 | E-105 | < 0.3 |
| 9348499 | E-107 | < 0.3 |
| 9348500 | E-108 | 0.7 |

| Table 2- Radon Testing Results | | | |
|--------------------------------|---------------|-------------|--------|
| Springbrook High School | | | |
| Test Period: 1/6/2020-1/9/2020 | | | |
| Kit Number | QC Type | Room / Area | Result |
| 9348402 | D | A-103 | <0.3 |
| 9348410 | FB | A-106 | <0.3 |
| 9348416 | D | A-108 | 0.7 |
| 9348430 | D | B-118 | <0.3 |
| 9348423 | FB | B-117 | <0.3 |
| 9348437 | D | B-107 | <0.3 |
| 9348446 | D | B-104 | <0.3 |
| 9348447 | FB | B-104-C | <0.3 |
| 9348460 | D | G-110 | 1.2 |
| 9348467 | D | G-8 | 2.1 |
| 9348470 | FB | G-11 | <0.3 |
| 9348473 | D | F-107 | <0.3 |
| 9348486 | D | E-115 | <0.3 |
| 9348472 | FB | E-113 | <0.3 |
| 9348498 | D | E-105 | <0.3 |
| 9347099 | D | C-101-J | 0.7 |
| 9347088 | FB | C-101-G | <0.3 |
| 9347087 | D | C-101-A | <0.3 |
| 9347079 | D | WEIGHT ROOM | 2.5 |
| 9347078 | FB | TRAINER | <0.3 |
| 9347069 | D | D-107-G | 1.1 |
| 9347054 | D | STAGE | 2.1 |
| 9347051 | FB | G-202 | <0.3 |
| 9347047 | D | E-206 | <0.3 |
| 9348319 | TRANSIT BLANK | NA | <0.3 |
| 9348320 | TRANSIT BLANK | NA | <0.3 |
| 9348313 | TRANSIT BLANK | NA | <0.3 |

ATTACHMENT C

Laboratory Analytical Results

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 |
|---------|---------|----------------------|----------------------|------------------|------------|
| 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:

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

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

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 |
|---------|---------|----------------------|----------------------|------------------|------------|
| 9340052 | N/A | 2019-12-21 @ 8:00 am | 2019-12-23 @ 8:00 am | 27.4 \pm 2.6 D | 2020-01-03 |
| 9340057 | N/A | 2019-12-21 @ 8:00 am | 2019-12-23 @ 8:00 am | 27.3 \pm 2.5 D | 2020-01-03 |
| 9340025 | N/A | 2019-12-21 @ 8:00 am | 2019-12-23 @ 8:00 am | 25.1 \pm 2.4 D | 2020-01-03 |
| 9341711 | N/A | 2019-12-21 @ 9:00 am | 2019-12-23 @ 9:00 am | 22.5 \pm 2.2 D | 2020-01-03 |
| 9340079 | N/A | 2019-12-21 @ 9:00 am | 2019-12-23 @ 9:00 am | 26.9 \pm 2.5 D | 2020-01-03 |
| 9340062 | N/A | 2019-12-21 @ 9:00 am | 2019-12-23 @ 9:00 am | 25.6 \pm 2.5 D | 2020-01-03 |
| 9340030 | N/A | 2019-12-21 @ 8:00 am | 2019-12-23 @ 8:00 am | 25.0 \pm 2.4 D | 2020-01-03 |
| 9341716 | N/A | 2019-12-21 @ 9:00 am | 2019-12-23 @ 9:00 am | 25.1 \pm 2.4 D | 2020-01-03 |
| 9340084 | N/A | 2019-12-21 @ 9:00 am | 2019-12-23 @ 9:00 am | 24.5 \pm 2.3 D | 2020-01-03 |

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: 0830 Time Stop: 0830

(Group 4)
Device No.'s: (20) Char. Bags -

9340061 thru 9340080

Temp of _____ 70.0
RH % _____ 50.1
Avg pCi/L _____ 25.5

52

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

Time Start: 0835 Time Stop: 0835

(Group 5)
Device No.'s: (20) Char. Bags -

9340081 thru 9340100

Temp of _____ 70.0
RH % _____ 50.1
Avg pCi/L _____ 25.5

25

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

Time Start: 0840 Time Stop: 0840

(Group 6)
Device No.'s: (20) Char. Bags -

9341701 thru 9341720

Temp of _____ 70.0
RH % _____ 50.1
Avg pCi/L _____ 25.5

25

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

Radon test result report for:
SPRINGBROOK HS
MAIN

| Kit # | Room Id | Started | Ended | pCi/L | Analyzed |
|---------|------------|----------------------|-----------------------|-----------|------------|
| 9348403 | A-102 | 2020-01-06 @ 7:00 am | 2020-01-09 @ 9:00 am | < 0.3 | 2020-01-14 |
| 9348402 | A-103 | 2020-01-06 @ 7:00 am | 2020-01-09 @ 9:00 am | < 0.3 | 2020-01-14 |
| 9348401 | A-103 | 2020-01-06 @ 7:00 am | 2020-01-09 @ 9:00 am | < 0.3 | 2020-01-14 |
| 9348407 | A-104 | 2020-01-06 @ 7:00 am | 2020-01-09 @ 9:00 am | 0.7 ± 0.4 | 2020-01-14 |
| 9348414 | A-105 | 2020-01-06 @ 8:00 am | 2020-01-09 @ 9:00 am | < 0.3 | 2020-01-14 |
| 9348410 | A-106 | 2020-01-06 @ 8:00 am | 2020-01-09 @ 9:00 am | < 0.3 | 2020-01-14 |
| 9348406 | A-106 | 2020-01-06 @ 7:00 am | 2020-01-09 @ 9:00 am | < 0.3 | 2020-01-14 |
| 9348415 | A-108 | 2020-01-06 @ 8:00 am | 2020-01-09 @ 9:00 am | < 0.3 | 2020-01-14 |
| 9348416 | A-108 | 2020-01-06 @ 8:00 am | 2020-01-09 @ 9:00 am | 0.7 ± 0.5 | 2020-01-14 |
| 9348405 | A-109 | 2020-01-06 @ 8:00 am | 2020-01-09 @ 9:00 am | < 0.3 | 2020-01-14 |
| 9348419 | A-111 | 2020-01-06 @ 8:00 am | 2020-01-09 @ 9:00 am | 0.6 ± 0.5 | 2020-01-14 |
| 9348420 | A-112 | 2020-01-06 @ 8:00 am | 2020-01-09 @ 9:00 am | < 0.3 | 2020-01-14 |
| 9348408 | A-114 | 2020-01-06 @ 7:00 am | 2020-01-09 @ 9:00 am | < 0.3 | 2020-01-14 |
| 9348409 | ATTENDANCE | 2020-01-06 @ 7:00 am | 2020-01-09 @ 9:00 am | < 0.3 | 2020-01-14 |
| 9347057 | AUDITORIUM | 2020-01-06 @ 1:00 pm | 2020-01-09 @ 12:00 pm | 1.4 ± 0.5 | 2020-01-14 |
| 9347055 | AUDITORIUM | 2020-01-06 @ 1:00 pm | 2020-01-09 @ 12:00 pm | 2.1 ± 0.5 | 2020-01-14 |
| 9347058 | AUDITORIUM | 2020-01-06 @ 1:00 pm | 2020-01-09 @ 12:00 pm | 1.7 ± 0.5 | 2020-01-14 |
| 9347056 | AUDITORIUM | 2020-01-06 @ 1:00 pm | 2020-01-09 @ 12:00 pm | 2.4 ± 0.5 | 2020-01-14 |
| 9348452 | B-101 | 2020-01-06 @ 9:00 am | 2020-01-09 @ 10:00 am | 0.5 ± 0.4 | 2020-01-14 |
| 9348451 | B-102 | 2020-01-06 @ 9:00 am | 2020-01-09 @ 10:00 am | < 0.3 | 2020-01-14 |
| 9348450 | B-102-D | 2020-01-06 @ 9:00 am | 2020-01-09 @ 10:00 am | < 0.3 | 2020-01-14 |
| 9348449 | B-103 | 2020-01-06 @ 9:00 am | 2020-01-09 @ 10:00 am | < 0.3 | 2020-01-14 |
| 9348446 | B-104 | 2020-01-06 @ 9:00 am | 2020-01-09 @ 10:00 am | < 0.3 | 2020-01-14 |
| 9348445 | B-104 | 2020-01-06 @ 9:00 am | 2020-01-09 @ 10:00 am | 0.9 ± 0.4 | 2020-01-14 |
| 9348447 | B-104-C | 2020-01-06 @ 9:00 am | 2020-01-09 @ 10:00 am | < 0.3 | 2020-01-14 |
| 9348448 | B-104-C | 2020-01-06 @ 9:00 am | 2020-01-09 @ 10:00 am | 0.6 ± 0.4 | 2020-01-14 |
| 9348444 | B-105 | 2020-01-06 @ 9:00 am | 2020-01-09 @ 10:00 am | < 0.3 | 2020-01-14 |
| 9348443 | B-105 | 2020-01-06 @ 9:00 am | 2020-01-09 @ 10:00 am | < 0.3 | 2020-01-14 |
| 9348442 | B-105-B | 2020-01-06 @ 9:00 am | 2020-01-09 @ 10:00 am | < 0.3 | 2020-01-14 |
| 9348440 | B-106 | 2020-01-06 @ 9:00 am | 2020-01-09 @ 10:00 am | < 0.3 | 2020-01-14 |
| 9348441 | B-106-C | 2020-01-06 @ 9:00 am | 2020-01-09 @ 10:00 am | < 0.3 | 2020-01-14 |
| 9348436 | B-107 | 2020-01-06 @ 9:00 am | 2020-01-09 @ 10:00 am | < 0.3 | 2020-01-14 |
| 9348437 | B-107 | 2020-01-06 @ 9:00 am | 2020-01-09 @ 10:00 am | < 0.3 | 2020-01-14 |
| 9348438 | B-107 | 2020-01-06 @ 9:00 am | 2020-01-09 @ 10:00 am | < 0.3 | 2020-01-14 |
| 9348439 | B-107-C | 2020-01-06 @ 9:00 am | 2020-01-09 @ 10:00 am | < 0.3 | 2020-01-14 |
| 9348434 | B-108 | 2020-01-06 @ 9:00 am | 2020-01-09 @ 10:00 am | < 0.3 | 2020-01-14 |
| 9348435 | B-108 | 2020-01-06 @ 9:00 am | 2020-01-09 @ 10:00 am | 0.8 ± 0.4 | 2020-01-14 |

Radon test result report for:
SPRINGBROOK HS
MAIN

| Kit # | Room Id | Started | Ended | pCi/L | Analyzed |
|---------|----------------|-----------------------|-----------------------|-----------|------------|
| 9348427 | B-108-C | 2020-01-06 @ 9:00 am | 2020-01-09 @ 10:00 am | < 0.3 | 2020-01-14 |
| 9348431 | B-109 | 2020-01-06 @ 8:00 am | 2020-01-09 @ 10:00 am | < 0.3 | 2020-01-14 |
| 9348433 | B-109 | 2020-01-06 @ 8:00 am | 2020-01-09 @ 10:00 am | < 0.3 | 2020-01-14 |
| 9348426 | B-109-A | 2020-01-06 @ 9:00 am | 2020-01-09 @ 10:00 am | 0.6 ± 0.4 | 2020-01-14 |
| 9348432 | B-109-B | 2020-01-06 @ 9:00 am | 2020-01-09 @ 10:00 am | < 0.3 | 2020-01-14 |
| 9348428 | B-116 | 2020-01-06 @ 8:00 am | 2020-01-09 @ 10:00 am | < 0.3 | 2020-01-14 |
| 9348429 | B-117 | 2020-01-06 @ 8:00 am | 2020-01-09 @ 10:00 am | < 0.3 | 2020-01-14 |
| 9348423 | B-117 | 2020-01-06 @ 8:00 am | 2020-01-09 @ 10:00 am | < 0.3 | 2020-01-14 |
| 9348424 | B-118 | 2020-01-06 @ 8:00 am | 2020-01-09 @ 12:00 pm | < 0.3 | 2020-01-14 |
| 9348430 | B-118 | 2020-01-06 @ 8:00 am | 2020-01-09 @ 12:00 pm | < 0.3 | 2020-01-14 |
| 9348425 | B-120-B | 2020-01-06 @ 8:00 am | 2020-01-09 @ 10:00 am | < 0.3 | 2020-01-14 |
| 9348418 | B-122 | 2020-01-06 @ 8:00 am | 2020-01-09 @ 10:00 am | < 0.3 | 2020-01-14 |
| 9348413 | B-122A | 2020-01-06 @ 8:00 am | 2020-01-09 @ 10:00 am | < 0.3 | 2020-01-14 |
| 9348412 | B-122B | 2020-01-06 @ 8:00 am | 2020-01-09 @ 10:00 am | 0.7 ± 0.4 | 2020-01-14 |
| 9348417 | BUSINESS ADMIN | 2020-01-06 @ 8:00 am | 2020-01-09 @ 9:00 am | < 0.3 | 2020-01-14 |
| 9347082 | C-101 | 2020-01-06 @ 12:00 pm | 2020-01-09 @ 12:00 pm | < 0.3 | 2020-01-14 |
| 9347084 | C-101-A | 2020-01-06 @ 12:00 pm | 2020-01-09 @ 12:00 pm | < 0.3 | 2020-01-14 |
| 9347087 | C-101-A | 2020-01-06 @ 12:00 pm | 2020-01-09 @ 12:00 pm | < 0.3 | 2020-01-14 |
| 9347086 | C-101-B | 2020-01-06 @ 12:00 pm | 2020-01-09 @ 12:00 pm | 0.7 ± 0.4 | 2020-01-14 |
| 9347089 | C-101-D | 2020-01-06 @ 11:00 am | 2020-01-09 @ 12:00 pm | < 0.3 | 2020-01-14 |
| 9347098 | C-101-E | 2020-01-06 @ 11:00 am | 2020-01-09 @ 12:00 pm | < 0.3 | 2020-01-14 |
| 9347100 | C-101-G | 2020-01-06 @ 11:00 am | 2020-01-09 @ 12:00 pm | 0.6 ± 0.4 | 2020-01-14 |
| 9347088 | C-101-G | 2020-01-06 @ 11:00 am | 2020-01-09 @ 12:00 pm | < 0.3 | 2020-01-14 |
| 9347092 | C-101-H | 2020-01-06 @ 11:00 am | 2020-01-09 @ 12:00 pm | < 0.3 | 2020-01-14 |
| 9347097 | C-101-J | 2020-01-06 @ 11:00 am | 2020-01-09 @ 12:00 pm | < 0.3 | 2020-01-14 |
| 9347099 | C-101-J | 2020-01-06 @ 11:00 am | 2020-01-09 @ 12:00 pm | 0.7 ± 0.4 | 2020-01-14 |
| 9347094 | C-101-K | 2020-01-06 @ 11:00 am | 2020-01-09 @ 12:00 pm | < 0.3 | 2020-01-14 |
| 9347096 | C-101-L | 2020-01-06 @ 11:00 am | 2020-01-09 @ 12:00 pm | < 0.3 | 2020-01-14 |
| 9347095 | C-101-M | 2020-01-06 @ 11:00 am | 2020-01-09 @ 12:00 pm | 1.2 ± 0.4 | 2020-01-14 |
| 9348493 | C-101-O | 2020-01-06 @ 11:00 am | 2020-01-09 @ 12:00 pm | < 0.3 | 2020-01-14 |
| 9348496 | C-101-P | 2020-01-06 @ 11:00 am | 2020-01-09 @ 12:00 pm | 1.0 ± 0.4 | 2020-01-14 |
| 9348494 | C-101-Q | 2020-01-06 @ 11:00 am | 2020-01-09 @ 12:00 pm | 1.2 ± 0.4 | 2020-01-14 |
| 9347091 | C-101-R | 2020-01-06 @ 11:00 am | 2020-01-09 @ 12:00 pm | 0.6 ± 0.4 | 2020-01-14 |
| 9347085 | C-101-S | 2020-01-06 @ 12:00 pm | 2020-01-09 @ 12:00 pm | < 0.3 | 2020-01-14 |
| 9347080 | C-102 | 2020-01-06 @ 12:00 pm | 2020-01-09 @ 12:00 pm | 0.8 ± 0.5 | 2020-01-14 |
| 9347081 | C-102-A | 2020-01-06 @ 12:00 pm | 2020-01-09 @ 12:00 pm | < 0.3 | 2020-01-14 |
| 9347090 | C-102-D | 2020-01-06 @ 12:00 pm | 2020-01-09 @ 12:00 pm | < 0.3 | 2020-01-14 |

Radon test result report for:
SPRINGBROOK HS
MAIN

| Kit # | Room Id | Started | Ended | pCi/L | Analyzed |
|---------|----------------|-----------------------|-----------------------|-----------|------------|
| 9347046 | C-206 | 2020-01-06 @ 1:00 pm | 2020-01-09 @ 11:00 am | 2.0 ± 0.5 | 2020-01-14 |
| 9348422 | CAFE | 2020-01-06 @ 8:00 am | 2020-01-09 @ 10:00 am | < 0.3 | 2020-01-14 |
| 9348411 | CAFE | 2020-01-06 @ 8:00 am | 2020-01-09 @ 10:00 am | < 0.3 | 2020-01-14 |
| 9348421 | CAFE | 2020-01-06 @ 8:00 am | 2020-01-09 @ 10:00 am | < 0.3 | 2020-01-14 |
| 9347059 | D-1 AUX GYM 1 | 2020-01-06 @ 1:00 pm | 2020-01-09 @ 12:00 pm | 1.8 ± 0.5 | 2020-01-14 |
| 9347066 | D-1 AUX GYM 1 | 2020-01-06 @ 1:00 pm | 2020-01-09 @ 12:00 pm | 1.4 ± 0.4 | 2020-01-14 |
| 9347060 | D-101 | 2020-01-06 @ 12:00 pm | 2020-01-09 @ 1:00 pm | 0.9 ± 0.5 | 2020-01-14 |
| 9347073 | D-102 | 2020-01-06 @ 12:00 pm | 2020-01-09 @ 12:00 pm | 1.2 ± 0.4 | 2020-01-14 |
| 9347063 | D-103 | 2020-01-06 @ 12:00 pm | 2020-01-09 @ 1:00 pm | 1.7 ± 0.5 | 2020-01-14 |
| 9347076 | D-104 | 2020-01-06 @ 12:00 pm | 2020-01-09 @ 12:00 pm | 3.6 ± 0.5 | 2020-01-14 |
| 9347074 | D-104 | 2020-01-06 @ 12:00 pm | 2020-01-09 @ 12:00 pm | 3.3 ± 0.5 | 2020-01-14 |
| 9347072 | D-104 | 2020-01-06 @ 12:00 pm | 2020-01-09 @ 12:00 pm | 3.6 ± 0.5 | 2020-01-14 |
| 9347075 | D-104 | 2020-01-06 @ 12:00 pm | 2020-01-09 @ 12:00 pm | 3.3 ± 0.5 | 2020-01-14 |
| 9347077 | D-105 | 2020-01-06 @ 12:00 pm | 2020-01-09 @ 12:00 pm | 2.6 ± 0.5 | 2020-01-14 |
| 9347070 | D-107 | 2020-01-06 @ 1:00 pm | 2020-01-09 @ 12:00 pm | 0.9 ± 0.5 | 2020-01-14 |
| 9347069 | D-107-G | 2020-01-06 @ 12:00 pm | 2020-01-09 @ 12:00 pm | 1.1 ± 0.4 | 2020-01-14 |
| 9347067 | D-107-G | 2020-01-06 @ 12:00 pm | 2020-01-09 @ 12:00 pm | 1.0 ± 0.4 | 2020-01-14 |
| 9347064 | D-108 | 2020-01-06 @ 1:00 pm | 2020-01-09 @ 12:00 pm | 0.6 ± 0.4 | 2020-01-14 |
| 9347065 | D-108-A | 2020-01-06 @ 1:00 pm | 2020-01-09 @ 12:00 pm | < 0.3 | 2020-01-14 |
| 9347062 | D-108-H | 2020-01-06 @ 12:00 pm | 2020-01-09 @ 12:00 pm | 0.9 ± 0.4 | 2020-01-14 |
| 9347061 | D-108-PR | 2020-01-06 @ 12:00 pm | 2020-01-09 @ 12:00 pm | 0.9 ± 0.4 | 2020-01-14 |
| 9348498 | E-105 | 2020-01-06 @ 11:00 am | 2020-01-09 @ 12:00 pm | < 0.3 | 2020-01-14 |
| 9348497 | E-105 | 2020-01-06 @ 11:00 am | 2020-01-09 @ 12:00 pm | 0.8 ± 0.4 | 2020-01-14 |
| 9348491 | E-106 | 2020-01-06 @ 11:00 am | 2020-01-09 @ 12:00 pm | 1.3 ± 0.4 | 2020-01-14 |
| 9348499 | E-107 | 2020-01-06 @ 11:00 am | 2020-01-09 @ 1:00 pm | < 0.3 | 2020-01-14 |
| 9348500 | E-108 | 2020-01-06 @ 11:00 am | 2020-01-09 @ 12:00 pm | 0.7 ± 0.4 | 2020-01-14 |
| 9347083 | E-109 | 2020-01-06 @ 12:00 pm | 2020-01-09 @ 12:00 pm | < 0.3 | 2020-01-14 |
| 9348483 | E-110 | 2020-01-06 @ 11:00 am | 2020-01-09 @ 12:00 pm | 0.6 ± 0.4 | 2020-01-14 |
| 9348482 | E-111 | 2020-01-06 @ 11:00 am | 2020-01-09 @ 12:00 pm | 0.7 ± 0.4 | 2020-01-14 |
| 9348492 | E-111 | 2020-01-06 @ 11:00 am | 2020-01-09 @ 12:00 pm | 0.6 ± 0.4 | 2020-01-14 |
| 9348495 | E-111 WORKROOM | 2020-01-06 @ 11:00 am | 2020-01-09 @ 12:00 pm | 0.8 ± 0.4 | 2020-01-14 |
| 9348484 | E-113 | 2020-01-06 @ 10:00 am | 2020-01-09 @ 12:00 pm | 0.7 ± 0.4 | 2020-01-14 |
| 9348472 | E-113 | 2020-01-06 @ 10:00 am | 2020-01-09 @ 12:00 pm | < 0.3 | 2020-01-14 |
| 9348485 | E-114 | 2020-01-06 @ 10:00 am | 2020-01-09 @ 12:00 pm | < 0.3 | 2020-01-14 |
| 9348486 | E-115 | 2020-01-06 @ 10:00 am | 2020-01-09 @ 1:00 pm | < 0.3 | 2020-01-14 |
| 9348487 | E-115 | 2020-01-06 @ 10:00 am | 2020-01-09 @ 1:00 pm | < 0.3 | 2020-01-14 |
| 9348489 | E-116 | 2020-01-06 @ 10:00 am | 2020-01-09 @ 11:00 am | 3.0 ± 0.6 | 2020-01-14 |

Radon test result report for:
SPRINGBROOK HS
MAIN

| Kit # | Room Id | Started | Ended | pCi/L | Analyzed |
|---------|--------------|-----------------------|-----------------------|-----------|------------|
| 9348488 | E-116 OFFICE | 2020-01-06 @ 10:00 am | 2020-01-09 @ 11:00 am | 1.3 ± 0.5 | 2020-01-14 |
| 9348490 | E-117 | 2020-01-06 @ 10:00 am | 2020-01-09 @ 11:00 am | < 0.3 | 2020-01-14 |
| 9348481 | E-118 | 2020-01-06 @ 10:00 am | 2020-01-09 @ 11:00 am | 0.7 ± 0.4 | 2020-01-14 |
| 9347047 | E-206 | 2020-01-06 @ 1:00 pm | 2020-01-09 @ 11:00 am | < 0.3 | 2020-01-14 |
| 9347048 | E-206 | 2020-01-06 @ 1:00 pm | 2020-01-09 @ 11:00 am | < 0.3 | 2020-01-14 |
| 9348474 | F-101 | 2020-01-06 @ 10:00 am | 2020-01-09 @ 11:00 am | < 0.3 | 2020-01-14 |
| 9348477 | F-102 | 2020-01-06 @ 10:00 am | 2020-01-09 @ 11:00 am | < 0.3 | 2020-01-14 |
| 9348478 | F-103 | 2020-01-06 @ 10:00 am | 2020-01-09 @ 11:00 am | < 0.3 | 2020-01-14 |
| 9348480 | F-104 | 2020-01-06 @ 10:00 am | 2020-01-09 @ 11:00 am | 0.8 ± 0.5 | 2020-01-14 |
| 9348479 | F-105 | 2020-01-06 @ 10:00 am | 2020-01-09 @ 11:00 am | < 0.3 | 2020-01-14 |
| 9348475 | F-106 | 2020-01-06 @ 10:00 am | 2020-01-09 @ 11:00 am | 1.4 ± 0.5 | 2020-01-14 |
| 9348473 | F-107 | 2020-01-06 @ 10:00 am | 2020-01-09 @ 11:00 am | < 0.3 | 2020-01-14 |
| 9348476 | F-107 | 2020-01-06 @ 10:00 am | 2020-01-09 @ 11:00 am | 1.0 ± 0.4 | 2020-01-14 |
| 9348461 | F-108 | 2020-01-06 @ 10:00 am | 2020-01-09 @ 11:00 am | 0.9 ± 0.5 | 2020-01-14 |
| 9348471 | F-109 | 2020-01-06 @ 10:00 am | 2020-01-09 @ 11:00 am | < 0.3 | 2020-01-14 |
| 9348465 | F-113 | 2020-01-06 @ 10:00 am | 2020-01-09 @ 11:00 am | 0.6 ± 0.4 | 2020-01-14 |
| 9347049 | F-201 | 2020-01-06 @ 1:00 pm | 2020-01-09 @ 11:00 am | < 0.3 | 2020-01-14 |
| 9347050 | F-209 | 2020-01-06 @ 1:00 pm | 2020-01-09 @ 11:00 am | < 0.3 | 2020-01-14 |
| 9348468 | G-1 | 2020-01-06 @ 10:00 am | 2020-01-09 @ 11:00 am | 0.8 ± 0.4 | 2020-01-14 |
| 9348466 | G-101 | 2020-01-06 @ 10:00 am | 2020-01-09 @ 11:00 am | 0.7 ± 0.4 | 2020-01-14 |
| 9348457 | G-105 | 2020-01-06 @ 10:00 am | 2020-01-09 @ 11:00 am | < 0.3 | 2020-01-14 |
| 9348459 | G-106 | 2020-01-06 @ 10:00 am | 2020-01-09 @ 11:00 am | 0.9 ± 0.5 | 2020-01-14 |
| 9348456 | G-107 | 2020-01-06 @ 9:00 am | 2020-01-09 @ 11:00 am | < 0.3 | 2020-01-14 |
| 9348455 | G-108 | 2020-01-06 @ 9:00 am | 2020-01-09 @ 11:00 am | 1.1 ± 0.4 | 2020-01-14 |
| 9348454 | G-109 | 2020-01-06 @ 9:00 am | 2020-01-09 @ 11:00 am | 1.2 ± 0.5 | 2020-01-14 |
| 9348464 | G-11 | 2020-01-06 @ 10:00 am | 2020-01-09 @ 11:00 am | < 0.3 | 2020-01-14 |
| 9348470 | G-11 | 2020-01-06 @ 10:00 am | 2020-01-09 @ 11:00 am | < 0.3 | 2020-01-14 |
| 9348460 | G-110 | 2020-01-06 @ 9:00 am | 2020-01-09 @ 11:00 am | 1.2 ± 0.4 | 2020-01-14 |
| 9348458 | G-110 | 2020-01-06 @ 9:00 am | 2020-01-09 @ 11:00 am | 0.9 ± 0.5 | 2020-01-14 |
| 9348453 | G-111 | 2020-01-06 @ 9:00 am | 2020-01-09 @ 11:00 am | 3.0 ± 0.5 | 2020-01-14 |
| 9348462 | G-12 | 2020-01-06 @ 10:00 am | 2020-01-09 @ 11:00 am | < 0.3 | 2020-01-14 |
| 9348469 | G-2 | 2020-01-06 @ 10:00 am | 2020-01-09 @ 11:00 am | < 0.3 | 2020-01-14 |
| 9347052 | G-202 | 2020-01-06 @ 1:00 pm | 2020-01-09 @ 11:00 am | 0.8 ± 0.5 | 2020-01-14 |
| 9347051 | G-202 | 2020-01-06 @ 1:00 pm | 2020-01-09 @ 11:00 am | < 0.3 | 2020-01-14 |
| 9347045 | G-209 | 2020-01-06 @ 1:00 pm | 2020-01-09 @ 11:00 am | 1.1 ± 0.5 | 2020-01-14 |
| 9347044 | G-307 | 2020-01-06 @ 2:00 pm | 2020-01-09 @ 11:00 am | 0.8 ± 0.4 | 2020-01-14 |
| 9348463 | G-8 | 2020-01-06 @ 10:00 am | 2020-01-09 @ 11:00 am | 2.4 ± 0.5 | 2020-01-14 |

January 14, 2020

**** LABORATORY ANALYSIS REPORT ****

Radon test result report for:
SPRINGBROOK HS
MAIN

| Kit # | Room Id | Started | Ended | pCi/L | Analyzed |
|--------------|----------------|-----------------------|-----------------------|--------------|-----------------|
| 9348467 | G-8 | 2020-01-06 @ 10:00 am | 2020-01-09 @ 11:00 am | 2.1 ± 0.5 | 2020-01-14 |
| 9348404 | MAIN OFFICE | 2020-01-06 @ 7:00 am | 2020-01-09 @ 9:00 am | < 0.3 | 2020-01-14 |
| 9347054 | STAGE | 2020-01-06 @ 1:00 pm | 2020-01-09 @ 12:00 pm | 2.1 ± 0.5 | 2020-01-14 |
| 9347053 | STAGE | 2020-01-06 @ 1:00 pm | 2020-01-09 @ 12:00 pm | 2.1 ± 0.5 | 2020-01-14 |
| 9347068 | TRAINER | 2020-01-06 @ 12:00 pm | 2020-01-09 @ 12:00 pm | 2.0 ± 0.5 | 2020-01-14 |
| 9347078 | TRAINER | 2020-01-06 @ 12:00 pm | 2020-01-09 @ 12:00 pm | < 0.3 | 2020-01-14 |
| 9347079 | WEIGHT ROOM | 2020-01-06 @ 12:00 pm | 2020-01-09 @ 12:00 pm | 2.5 ± 0.5 | 2020-01-14 |
| 9347071 | WEIGHT ROOM | 2020-01-06 @ 12:00 pm | 2020-01-09 @ 12:00 pm | 3.0 ± 0.5 | 2020-01-14 |

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



Radon Test Kit Chain of Custody

Project Name: MCPS Radon 2019 Week 3

Name of Schools:

- | | |
|------------------------------|----------------------------|
| 1. Bannockburn E.S. | 12. Montgomery Knolls E.S. |
| 2. Bethesda E.S. | 13. Newport Mills M.S. |
| 3. Bethesda-Chevy Chase H.S. | 14. Oak View E.S. |
| 4. Bradley Hill E.S. | 15. Rock View E.S. |
| 5. Burning Tree E.S. | 16. Roscoe Nix E.S. |
| 6. Burnt Mills E.S. | 17. Sligo M.S. |
| 7. East Silver Springs E.S. | 18. Spring Mill Center |
| 8. Einstein H.S. | 19. Springbrook H.S. |
| 9. Flora Singer E.S. | 20. Westland M.S. |
| 10. Key M.S. | 21. Woodlin M.S. |
| 11. Montgomery Blair H.S. | |

| | Date | Initials |
|----------------------------------|----------------------|----------|
| Radon Test Kits Deployed | 1/6/20 to 1/7/20 | JM |
| Radon Test Kits Collected | 1/9/20 to 1/10/20 | JM |
| Radon Test Kits Shipped to Lab* | 1/10/20 | JM |
| Radon Test Kits Received by Lab* | 1/13/202 | JM |

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



Soil and Land Use Technology, Inc.

1818 New York NE, Suite 231 • Washington, DC 20002

(301) 595-3783

www.SaLUTinc.com

MCPS RADON TESTING - EXECUTIVE SUMMARY

| | |
|--------------------------|--|
| Site Name | Springbrook High School |
| Date of Report | 2/9/2021 |
| Round of Testing | Initial Follow-up Post Remediation 2 year testing 5 year testing HVAC Upgrade Window Replacement New Addition New Facility |
| # of Rooms Tested | 5 |
| # Rooms ≥ 4.0 pCi/L | 0 |
| Lowest Value | <0.3 pCi/L |
| Highest Value | 3.8 pCi/L |

Project Status

Current Project Status at this time: Testing Complete.



Soil and Land Use Technology, Inc.

(301) 595-3783
1818 New York NE, Suite 231 • Washington, DC 20002

www.SaLUTinc.com

2/9/2021

Brian Croyle, PG, CHMM
Environmental Specialist
Environmental Services/Indoor Air Quality
Montgomery County Public Schools
Division of Sustainability and Compliance
Gaithersburg, Maryland 20879

Re: Radon Testing Services

SaLUT Job #20-173

Location: Springbrook High School

201 Valley Brook Drive
Silver Spring, MD 20904

Dear Mr. Croyle:

Soil and Land Use Technology, Inc. (SaLUT) is pleased to submit the following report to Montgomery County Public Schools pursuant to completing a “Post Remediation radon test for the Springbrook High School, located at 201 Valley Brook Drive, Silver Spring, MD 20904 (subject site).

SCOPE OF SERVICES

SaLUT 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. SaLUT 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*. Additional information on radon management and the health effects of radon exposure is available from www.montgomerycountymd.gov/dep/air/radon or www.epa.gov/radon.

SaLUT visited the site on 1/26/2021 and deployed seven (7) activated charcoal (AC) radon test kits. SaLUT deployed radon test kits in remediated 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.

As a quality control measure, SaLUT included duplicate samples, field blanks, lab transit blanks, and office blanks in accordance with AARST recommendations. In addition, SaLUT submitted one (1) test kit 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.

SaLUT returned to the site on 1/29/2021 to retrieve the radon sampling test kits. SaLUT shipped all radon tests via overnight delivery to EMSL Analytical, Inc. for analysis by gamma-ray spectroscopy. EMSL Analytical, Inc. is a National Radon Safety Board (NRSB) radon measurement provider and is a certified analytical laboratory for radon analysis (certification #109000 AL) located at 200 Route 130 North, Cinnaminson, NJ 08077.

EVALUATION OF TESTING CONDITIONS

These tests represent:

- Post Remediation 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, SaLUT concludes that this test was conducted during ideal testing conditions.

SaLUT 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.

SaLUT 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 and high temperatures were in the mid-40s. Maximum sustained winds ranged from 5-22 miles per hour. Average humidity was around 68%. <1.0 inches of precipitation (rain) was recorded during the testing period.

RESULTS

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

The results of the radon test analysis indicated the following:

| Radon Concentration | Room | Result |
|----------------------------|------------------|------------------|
| ≥4.0 pCi/L | N/A | 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 301-595-3783.

Sincerely,

Mark McGrath

Soil and Land Use Technology, Inc. (SaLUT)
1818 New York Avenue, NE, Suite 231
Washington, DC 20002
202-446-7211 Mobile
301-595-3783
202-379-9504 fax

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

D- Duplicate

FB- Field Blank

OB- Office Blank

PM- Project Manager

QC- Quality Control

| Table 1- Radon Testing Results | | |
|----------------------------------|-------------|--------|
| Springbrook High School | | |
| Test Period: 1/26/2021-1/29/2021 | | |
| | | |
| Kit Number | Room / Area | Result |
| 445832 | Gym | 2.4 |
| 445875 | Gym | 1.3 |
| 445851 | Gym Closet | 1.8 |
| 445193 | Weight Room | 2 |
| 445154 | Weight Room | -0.1 |
| 445224 | G-111 | 3.8 |
| 445236 | G-111A | 3.2 |

| Table 2- Radon Testing Results | | | |
|----------------------------------|---------------|-------------|--------|
| Springbook High School | | | |
| Test Period: 1/26/2021-1/29/2021 | | | |
| | | | |
| Kit Number | QC Type | Room / Area | Result |
| 440197 | FB | Weight Room | -0.1 |
| 429687 | D | Gym | 1.3 |
| 9346867 | TRANSIT BLANK | N/A | 0.0 |

ATTACHMENT C

Laboratory Analytical Results

**EMSL Analytical, Inc.**

200 Route 130 North, Cinnaminson, NJ 08077
 Phone/Fax: (800) 220-3675 / (856) 786-0327
<http://www.EMSL.com> cinnaminsonradonlab@emsl.com

EMSL Order: 382100960
 CustomerID: SALU50
 CustomerPO:
 ProjectID:

Attn: **Indika Jayatilake**
SaLUT
1818 New York Avenue, NE
Suite 231
Washington, DC 20002

Phone: (301) 595-3783
 Fax: (301) 595-3787
 Received: 2/1/2021 10:20 AM
 Analysis Date: 2/2/2021
 Collected: 1/26/2021

Project: **201 Valley Brook Drive**

Test Site: **201 Valley Brook Drive**
Silver Spring, MD 20904

Test Report: Radon in Air Test Results**Samples for EMSL Kit 254592**

| Liquid Scintillation ID | Location | Radon Activity pCi/L | Start | Stop | Temperature F | Humidity % | Sample Type |
|-------------------------|----------|-------------------------|------------|-------------|------------------|---------------|-------------|
| 445832 | Gym | 2.4 | 1/26/2021 | 1/29/2021 | 70 | 24 | Customer |
| 382100960-0001 | | | 9:59:00 AM | 10:28:00 AM | | | |

Sample Notes:

| | | | | | | | |
|----------------|-----|-----|------------|-------------|----|----|-----------|
| 445875 | Gym | 1.3 | 1/26/2021 | 1/29/2021 | 70 | 24 | Duplicate |
| 382100960-0002 | | | 9:59:00 AM | 10:28:00 AM | | | |

Sample Notes:

Duplicate RPD = 59.5%

Samples for EMSL Kit 254593

| Liquid Scintillation ID | Location | Radon Activity pCi/L | Start | Stop | Temperature F | Humidity % | Sample Type |
|-------------------------|------------|-------------------------|-------------|-------------|------------------|---------------|-------------|
| 445851 | Gym Closet | 1.8 | 1/26/2021 | 1/29/2021 | 70 | 42 | Customer |
| 382100960-0003 | | | 10:00:00 AM | 10:30:00 AM | | | |

Sample Notes:**Samples for EMSL Kit 254595**

| Liquid Scintillation ID | Location | Radon Activity pCi/L | Start | Stop | Temperature F | Humidity % | Sample Type |
|-------------------------|-------------|-------------------------|-------------|-------------|------------------|---------------|-------------|
| 445193 | Weight Room | 2 | 1/26/2021 | 1/29/2021 | 68 | 40 | Customer |
| 382100960-0004 | | | 10:04:00 AM | 10:32:00 AM | | | |

Sample Notes:

| | | | | | | | |
|----------------|-------------|------|-------------|-------------|----|----|-------|
| 445154 | Weight Room | -0.1 | 1/26/2021 | 1/29/2021 | 68 | 40 | Blank |
| 382100960-0005 | | | 10:04:00 AM | 10:32:00 AM | | | |

Sample Notes:**Samples for EMSL Kit 254596**

| Liquid Scintillation ID | Location | Radon Activity pCi/L | Start | Stop | Temperature F | Humidity % | Sample Type |
|-------------------------|------------|-------------------------|-------------|-------------|------------------|---------------|-------------|
| 445224 | Room G-111 | 3.8 | 1/26/2021 | 1/29/2021 | 70 | 50 | Customer |
| 382100960-0006 | | | 10:10:00 AM | 10:23:00 AM | | | |

Sample Notes:

**EMSL Analytical, Inc.**

200 Route 130 North, Cinnaminson, NJ 08077

Phone/Fax: (800) 220-3675 / (856) 786-0327

<http://www.EMSL.com>cinnaminsonradonlab@emsl.com

EMSL Order: 382100960

CustomerID: SALU50

CustomerPO:

ProjectID:

Attn: **Indika Jayatilake**
SaLUT
1818 New York Avenue, NE
Suite 231
Washington, DC 20002

Phone: (301) 595-3783
 Fax: (301) 595-3787
 Received: 2/1/2021 10:20 AM
 Analysis Date: 2/2/2021
 Collected: 1/26/2021

Project: 201 Valley Brook Drive

Test Site: 201 Valley Brook Drive
 Silver Spring, MD 20904

Test Report: Radon in Air Test Results**Samples for EMSL Kit 254594**

| Liquid Scintillation ID | Location | Radon Activity pCi/L | Start | Stop | Temperature F | Humidity % | Sample Type |
|-------------------------|-------------|-------------------------|-------------|-------------|------------------|---------------|-------------|
| 445236 | Room G-111A | 3.2 | 1/26/2021 | 1/29/2021 | 65 | 50 | Customer |
| 382100960-0007 | | | 10:12:00 AM | 10:24:00 AM | | | |

Sample Notes:**Samples for EMSL Kit 252533**

| Liquid Scintillation ID | Location | Radon Activity pCi/L | Start | Stop | Temperature F | Humidity % | Sample Type |
|-------------------------|---------------|-------------------------|-------------|-------------|------------------|---------------|-------------|
| 440298 | Transit Blank | 0 | 1/26/2021 | 2/1/2021 | 70 | 50 | Blank |
| 382100960-0008 | | | 10:00:00 AM | 10:21:00 AM | | | |

Sample Notes: Radon device exposed >96 hours

The radon test was performed using a liquid scintillation radon detector/s and counted on a liquid scintillation counter using approved EPA testing protocols for Radon in Air testing. The EPA recommends fixing your home if the average of two short-term tests taken in the lowest lived-in level of the home show radon levels that are equal to or greater than 4.0pCi/L. The EPA recommends retesting your home every two years.

Please contact EMSL Analytical, Inc. or your State Health Department for further information.

All procedures used for generating this report are in complete accordance with the current EPA protocols for the analysis of Radon in Air.

Report Note

Analyst(s)

Kevin Schwartz (8)

Dominic Gehret, Radiochemistry Laboratory Manager, NJ Radon
 Measurement Specialist MES 13910
 or other approved signatory

In no event shall EMSL be liable for indirect, special, consequential, or incidental damages, including, but not limited to, damages for loss of profit or goodwill regardless of the negligence (either sole or concurrent) of EMSL and whether EMSL has been informed of the possibility of such damages, arising out of or in connection with EMSL's services thereunder or the delivery, use, reliance upon or interpretation of test results by client or any third party. We accept no legal responsibility for the purposes for which the client uses the test results. In no event shall EMSL be liable to a client or any third party, whether based upon theories of tort, contract or any other legal or equitable theory, in excess of the amount paid to EMSL by client thereunder. The test results meets all NELAC requirements unless otherwise specified.

Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ FL RB2034/R2687,IL RNL2008202,IN RTL00935,IA RNLAB10005,KS KS-LB-0005/KS-MS-0482,ME SPC202,MN RL-0005,NE 474/RMB-1083,NJ 03036/MEB92525/MES13910,NY 10872,OH RL39,OK D9952,PA 2573/3393/68-00367,RI RMB-108/RI00179,WV RL000220,NRSB-ARL6006,NRPP

Initial report from 02/04/2021 13:25:04

Please visit www.radontestinglab.com

Fedex 7960 5825 0538

EMSL Analytical, Inc.
 200 Route 130 North
 My 2D
 Cinnaminson, NJ 08077
 PHONE: 1-800-220-3675
 FAX: (856) 786-5974



EMSL ANALYTICAL, INC.
 LABORATORY PRODUCTS TRAINING

Radon Testing Chain of Custody

EMSL Order Number (Lab Use Only):

EMSL
 CINNAMINSON, N.J. 382100960

2021 JAN 32 A 10:21
 KS

Company: SaLUT
 Street: 1818 New York Avenue, NE Suite 231
 City: Washington State/Province: DC Zip/Postal Code: 20002 Country: US
 Report To (Name): Indika Jayatilake Fax #: 301-595-3787
 Telephone #: 301-595-3783 Email Address: ijayatilake@salutinc.com
 Project Name/Number: MCPS
 Please Provide Results: Fax Email Mail Purchase Order: U.S. State Samples Taken: MD

Project Property Information

Project Name:
 Project Address: 201 Valley Brook Dr.
 City: Silver Spring State: MD Zip Code: 20904
 County: Municipality:
 Technician Name: Mark M. Technician Cert #: Technician Signature: *MM*

New Jersey Testing Information

NJDEP Laboratory Certification # 03036 NJDEP Radon Business Certification # MEB92525

1.) Is the radon test being conducted for the purpose of: Real Estate Transaction Homeowner Testing Other
 2.) Test Conditions observed? Closed House Open House
 3.) What is the building type? Residential Non-Residential Daycare School
 4.) What is the building foundation type? Basement Crawlspace Slab on Grade Other
 5.) For School Testing, please enter: School Code Room Name/Number

| Box Number | Device Number | Location | Exposure Period Beginning Date and Time | Exposure Period Ending Date and Time | Temperature °F | Humidity, % |
|--------------|---------------|---------------|---|--------------------------------------|----------------|-------------|
| 254592 | 445832 | Gym | 1/26/21 9:59 | 1/29/21 10:28 | 70 | 24 |
| DUP 254592 | 445875 | Gym | 1/26/21 9:59 | 1/29/21 10:28 | 70 | 24 |
| 254593 | 445851 | Gym Closet | 1/26/21 10:00 | 1/29/21 10:30 | 70 | 42 |
| 254595 | 445193 | Weight Room | 1/26/21 10:04 | 1/29/21 10:32 | 68 | 40 |
| Blank 254595 | 445154 | Weight Room | 1/26/21 10:04 | 1/29/21 10:32 | 68 | 40 |
| 254596 | 445224 | Room G-111 | 1/26/21 10:10 | 1/29/21 10:23 | 70 | 50 |
| 254594 | 445236 | Room G-111A | 1/26/21 10:12 | 1/29/21 10:24 | 65 | 50 |
| 252533 | 440298 | Transit Blank | 1/26/21 10:00 | | 70 | 50 |

Client Sample # (s): - Total # of Samples:
 Relinquished (Client): Date: Time:
 Received (Lab): Date: Time:
 Comments/Special Instructions:



MONTGOMERY COUNTY PUBLIC SCHOOLS RADON TESTING

Executive Summary: Springbrook High School

201 Valley Brook Drive
Silver Spring, MD 20904

| | |
|------------------------------|---|
| Date of Test Report: | 3/29/2019 |
| Round of Testing: | Initial Follow-up Post Remediation 2 Year Testing 5 Year Testing HVAC Upgrade Window Replacement New Addition New Facility |
| # of Rooms Tested: | 6 |
| # of Rooms \geq 4.0 pCi/L: | 0 |
| Low Value: | <0.4 |
| High Value: | 1.8 |

Project Status

Missing Samples: Room E116

Current Project Status at this time: Retesting completed; remediation recommended for Room E116.



March 29, 2019

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

Re: Radon Testing Services

Location: Springbrook High School
201 Valley Brook Drive,
Silver Spring, MD 20904

Dear Mr. Cox:

Intertek-PSI (PSI) is pleased to submit the following report to the Montgomery County Public Schools (MCPS) for completion of a “short-term” 3-day radon test for Springbrook High School, located at 201 Valley Brook Drive, Silver Spring, MD 20904 (subject site).

Scope of Services:

PSI conducted radon testing at the subject site to evaluate indoor radon levels relative to the USEPA's recommended action level of 4.0 picocuries per Liter (pCi/L) - the level at which EPA recommends that schools take action to reduce the level. PSI conducted the radon testing in accordance with American Association of Radon Scientists and Technologists (AARST) Protocol for Conducting Measurements of Radon and Radon Decay Products in Schools and Large Buildings. A National Radon Safety Board (NRSB) Radon Measurement Specialist (certification #14SS007) supervised the testing. Additional information on radon management and the health effects of radon exposure is available from www.montgomerycountymd.gov/dep/air/radon or www.epa.gov/radon.

PSI visited the site on February 25, 2019 and deployed seven (7) activated charcoal (AC) radon test kit. PSI deployed radon test kits in frequently-occupied ground contact rooms, and other areas, (if applicable) in accordance with AARST guidance. PSI returned to the site on February 28, 2019 to retrieve the radon sampling test kit. A floor plan map of the building with the test location is included as Attachment A of this report.

PSI shipped all radon tests via overnight delivery to AccuStar Labs for analysis by gamma-ray spectroscopy. Accustar Labs is a NRSB certified analytical laboratory for radon analysis located at 929 Mount Zion Road, Lebanon, Pennsylvania (certification # ARL0007).

Evaluation of Testing Conditions:

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

PSI concludes that the test period reasonably represents normal conditions when the building is significantly



occupied. Clear characterization of the radon hazard is most likely to be observed under this normal operating condition. Based on the evaluation of test conditions, this test should reasonably characterize radon hazards.

PSI also conducted observations of field conditions which could affect the results of the test and compiled weather data for the testing period. PSI recorded observations of the following conditions in each room at the time of deployment and collection of the radon test kits:

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

Results:

The results of the radon test analysis indicated the following:

| Radon Concentration | Room | Result |
|----------------------------|------------------|---------------|
| ≥ 4.0 pCi/L | None | NA |
| ≤ 4.0 pCi/L | See Attachment B | |

Notes:

D -Duplicate Sample

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

The sampling locations, field observations, and analytical results are listed on Table 1 (Attachment B). The laboratory analytical results are also attached (Attachment C).

Laboratory results and exposure data for the spike samples are also included in Attachment C. Our professional services have been performed in accordance with customary principles and practices in the field of industrial hygiene and engineering. If you have any questions or comments regarding this report, please feel free to contact me at (703) 698-9300.



Respectfully Submitted,

INTERTEK-PSI

A handwritten signature in black ink that reads "Nand Kaushik". The signature is written in a cursive style with a large initial 'N'.

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

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

ATTACHMENT B

Radon Test Summary Spreadsheet

| Radon Testing Results | | |
|--|--------------------|-----------------------|
| Springbrook High School | | |
| Testing period: 02/25/19 - 02/28/19 | | |
| Kit Number | Room / Area | Result (pCi/L) |
| 3923476 | Room 112 | 0.6 |
| 3923473 | Room F112 | <0.4 |
| 3923474 | Room F109 | 1.0 |
| 3923471 | Room G12 | <0.4 |
| 3923453 | Room B122 | <0.4 |
| 3923472 | Room B122 (D) | <0.4 |
| 3923460 | Auditorium | 1.0 |
| 3923472 | Auditorium (D) | <0.4 |
| 3923452 | E116 (Missing) | -- |

Table Notes:

D – Duplicate

FB – Field Blank

OB – Office Blank

TB – Transit Blank

QC – Quality Control

ATTACHMENT C

Laboratory Analytical Results

NRPP 105011 AL
NRSB ARL0007

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

Laboratory Report for:

Property Tested: Project # 04481387-1

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

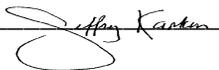
MCPS Radon Survey Springbrook HS
201 Valley Brook Drive
Silver Spring MD 20904

| Log Number | Device Number | Test Exposure | Duration: | Area Tested | Result pCi/L |
|------------|---------------|--------------------|--------------------|--------------------------------|--------------|
| 3220662 | 3923476 | 02/25/2019 1:20 pm | 02/28/2019 1:00 pm | Floor Main Room 112 | 0.6 |
| 3220663 | 3923473 | 02/25/2019 1:24 pm | 02/28/2019 1:01 pm | Floor Main Room F112 | < 0.4 |
| 3220664 | 3923474 | 02/25/2019 1:26 pm | 02/28/2019 1:02 pm | Floor Main Room F109 | 1.0 |
| 3220665 | 3923471 | 02/25/2019 1:35 pm | 02/28/2019 1:04 pm | Floor Main Room G12 | < 0.4 |
| 3220666 | 3923453 | 02/25/2019 1:42 pm | 02/28/2019 1:05 pm | Floor Main Room B122 | < 0.4 |
| 3220667 | 3923472 | 02/25/2019 1:42 pm | 02/28/2019 1:06 pm | Floor Main Room B122 Duplicate | < 0.4 |
| 3220668 | 3923460 | 02/25/2019 1:46 pm | 02/28/2019 1:07 pm | Floor Main Room Auditorium | 1.0 |

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

Distributed by: Intertek-PSI (VA)

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

Report Reviewed By: 

Report Approved By: 

Disclaimer:

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

Shawn Price, Director of Laboratory Operations, AccuStar Labs

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



MCPS RADON TESTING - EXECUTIVE SUMMARY

| | |
|--------------------------|---|
| Site Name | Springbrook High School |
| Date of Report | 3/5/2020 |
| Round of Testing | Initial Follow-up Post Remediation 2 year testing 5 year testing HVAC Upgrade Window Replacement New Addition New Facility |
| # of Rooms Tested | 4 |
| # Rooms \geq 4.0 pCi/L | 0 |
| Lowest Value | <0.3 pCi/L |
| Highest Value | 3.6 pCi/L |

Project Status

Current Project Status at this time: Retesting completed; no further action.



3/5/2020

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: Springbrook High School

201 Valleybrook Drive
Silver Spring, Maryland 20904

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 Springbrook High School, located at 201 Valleybrook Drive in Silver Spring, Maryland 20904 (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 or www.epa.gov/radon.

KCI visited the site on 2/18/2020 and deployed six (6) 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),

-
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. ≥ 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 nine (9) 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 2/21/2020 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 lower-40s; and high temperatures ranged from the upper-30s to the upper-50s. Maximum sustained winds ranged from 13-21 miles per hour. Average humidity was approximately 50%. A total of .01 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 | | |
|--------------------------------|---------------|--------|
| Springbrook High School | | |
| Test Period: 02/18/20-02/21/20 | | |
| | | |
| Kit Number | Room / Area | Result |
| 9348525 | G111 | 3.5 |
| 9348531 | TEAM OFFICE 1 | 1.3 |
| 9348549 | GYM D104 | 2.5 |
| 9348567 | GYM D104 | 3.6 |
| 9348568 | WEIGHT ROOM | 3 |
| 9348571 | OFFICE BLANK | < 0.3 |

| Table 2- Radon Testing Results | | | |
|--------------------------------|---------------|-------------|--------|
| Springbrook High School | | | |
| Test Period: 02/18/20-02/21/20 | | | |
| | | | |
| Kit Number | QC Type | Room / Area | Result |
| 9348506 | TRANSIT BLANK | NA | < 0.3 |

ATTACHMENT C

Laboratory Analytical Results

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 |

March 5, 2020

**** 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 |
|--------------|----------------|----------------------|----------------------|----------------|-----------------|
| 9341733 | | 2020-02-21 @ 8:00 am | 2020-02-24 @ 8:00 am | 26.4 \pm 1.6 | 2020-02-26 |

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

March 5, 2020

**** LABORATORY ANALYSIS REPORT ****

Radon test result report for:

S

N/A

| Kit # | Room Id | Started | Ended | pCi/L | Analyzed |
|--------------|----------------|----------------------|----------------------|--------------|-----------------|
| 9341729 | N/A | 2020-02-21 @ 8:00 am | 2020-02-24 @ 8:00 am | 26.2 ± 1.6 | 2020-02-26 |
| 9341727 | N/A | 2020-02-21 @ 8:00 am | 2020-02-24 @ 8:00 am | 27.2 ± 1.6 | 2020-02-26 |
| 9341732 | N/A | 2020-02-21 @ 8:00 am | 2020-02-24 @ 8:00 am | 27.3 ± 1.6 | 2020-02-26 |
| 9341725 | N/A | 2020-02-21 @ 8:00 am | 2020-02-24 @ 8:00 am | 26.9 ± 1.6 | 2020-02-26 |
| 9341730 | N/A | 2020-02-21 @ 8:00 am | 2020-02-24 @ 8:00 am | 26.1 ± 1.6 | 2020-02-26 |
| 9341728 | N/A | 2020-02-21 @ 8:00 am | 2020-02-24 @ 8:00 am | 26.9 ± 1.6 | 2020-02-26 |
| 9341726 | N/A | 2020-02-21 @ 8:00 am | 2020-02-24 @ 8:00 am | 25.8 ± 1.5 | 2020-02-26 |
| 9341731 | N/A | 2020-02-21 @ 8:00 am | 2020-02-24 @ 8:00 am | 25.1 ± 1.5 | 2020-02-26 |

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 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 μ R/h Elevation = 820 ft



Radon Test Kit Chain of Custody

Project Name: MCPS Radon 2019 Week 3

Name of Schools:

1. Bannockburn E.S.
2. Bradley Hills E.S.
3. East Silver Spring E.S.
4. Einstein H.S.
5. Flora M. Singer E.S.
6. Francis Scott Key M.S.
7. Jones Lane E.S
8. Montgomery Blair H.S.
9. Oak View E.S.
10. Redland M.S.
11. Springbrook H.S.

| | Date | Initials |
|----------------------------------|---------|----------|
| Radon Test Kits Deployed | 2/18/20 | |
| Radon Test Kits Collected | 2/21/20 | |
| Radon Test Kits Shipped to Lab* | 2/21/20 | |
| Radon Test Kits Received by Lab* | 2/24/20 | |

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



MCPS RADON TESTING - EXECUTIVE SUMMARY

| | |
|--------------------------|--|
| Site Name | Springbrook High School |
| Date of Report | 2/21/2020 |
| Round of Testing | Initial Follow-up Post Remediation 2 year testing 5 year testing HVAC Upgrade Window Replacement New Addition New Facility |
| # of Rooms Tested | 118 |
| # Rooms \geq 4.0 pCi/L | 0 |
| Lowest Value | <0.3 pCi/L |
| Highest Value | 3.6 pCi/L |

Project Status

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



2/21/2020

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: Springbrook High School

201 Valleybrook Drive
Silver Spring, Maryland 20904

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 Springbrook High School, located at 201 Valleybrook Drive in Silver Spring, Maryland 20904 (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 www.montgomerycountymd.gov/dep/air/radon or www.epa.gov/radon.

KCI visited the site on 1/6/2020 and deployed one-hundred fifty-six 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.

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 1/9/2020 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 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 and post-mitigation testing.

These tests were conducted to:

- Evaluate radon concentrations following the installation of a new HVAC system.

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 upper-20s and high temperatures were in the mid-50s. Maximum sustained winds ranged from 10-23 miles per hour. Average humidity was around 64%. 0.32 inches of precipitation (rain) was recorded during the testing period.

RESULTS

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

The results of the radon test analysis indicated the following:

| Radon Concentration | Room | Result |
|----------------------------|------------------|------------------|
| ≥4.0 pCi/L | None | N/A |
| ≤4.0 pCi/L | See Attachment B | 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
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 | | |
|--------------------------------|---------------|--------|
| Springbrook High School | | |
| Test Period: 1/6/2020-1/9/2020 | | |
| Kit Number | Room / Area | Result |
| 9347044 | G-307 | 0.8 |
| 9347045 | G-209 | 1.1 |
| 9347046 | C-206 | 2 |
| 9347047 | E-206 | < 0.3 |
| 9347048 | E-206 | < 0.3 |
| 9347049 | F-201 | < 0.3 |
| 9347050 | F-209 | < 0.3 |
| 9347051 | G-202 | < 0.3 |
| 9347052 | G-202 | 0.8 |
| 9347053 | STAGE | 2.1 |
| 9347054 | STAGE | 2.1 |
| 9347055 | AUDITORIUM | 2.1 |
| 9347056 | AUDITORIUM | 2.4 |
| 9347057 | AUDITORIUM | 1.4 |
| 9347058 | AUDITORIUM | 1.7 |
| 9347059 | D-1 AUX GYM 1 | 1.8 |
| 9347060 | D-101 | 0.9 |
| 9347061 | D-108-PR | 0.9 |
| 9347062 | D-108-H | 0.9 |
| 9347063 | D-103 | 1.7 |
| 9347064 | D-108 | 0.6 |
| 9347065 | D-108-A | < 0.3 |
| 9347066 | D-1 AUX GYM 1 | 1.4 |
| 9347067 | D-107-G | 1 |
| 9347068 | TRAINER | 2 |
| 9347069 | D-107-G | 1.1 |
| 9347070 | D-107 | 0.9 |
| 9347071 | WEIGHT ROOM | 3 |
| 9347072 | D-104 | 3.6 |
| 9347073 | D-102 | 1.2 |
| 9347074 | D-104 | 3.3 |
| 9347075 | D-104 | 3.3 |
| 9347076 | D-104 | 3.6 |
| 9347077 | D-105 | 2.6 |
| 9347078 | TRAINER | < 0.3 |
| 9347079 | WEIGHT ROOM | 2.5 |
| 9347080 | C-102 | 0.8 |
| 9347081 | C-102-A | < 0.3 |
| 9347082 | C-101 | < 0.3 |
| 9347083 | E-109 | < 0.3 |
| 9347084 | C-101-A | < 0.3 |
| 9347085 | C-101-S | < 0.3 |

| | | |
|---------|----------------|-------|
| 9347086 | C-101-B | 0.7 |
| 9347087 | C-101-A | < 0.3 |
| 9347088 | C-101-G | < 0.3 |
| 9347089 | C-101-D | < 0.3 |
| 9347090 | C-102-D | < 0.3 |
| 9347091 | C-101-R | 0.6 |
| 9347092 | C-101-H | < 0.3 |
| 9347094 | C-101-K | < 0.3 |
| 9347095 | C-101-M | 1.2 |
| 9347096 | C-101-L | < 0.3 |
| 9347097 | C-101-J | < 0.3 |
| 9347098 | C-101-E | < 0.3 |
| 9347099 | C-101-J | 0.7 |
| 9347100 | C-101-G | 0.6 |
| 9348302 | OFFICE BLANK | < 0.3 |
| 9348401 | A-103 | < 0.3 |
| 9348402 | A-103 | < 0.3 |
| 9348403 | A-102 | < 0.3 |
| 9348404 | MAIN OFFICE | < 0.3 |
| 9348405 | A-109 | < 0.3 |
| 9348406 | A-106 | < 0.3 |
| 9348407 | A-104 | 0.7 |
| 9348408 | A-114 | < 0.3 |
| 9348409 | ATTENDANCE | < 0.3 |
| 9348410 | A-106 | < 0.3 |
| 9348411 | CAFE | < 0.3 |
| 9348412 | B-122B | 0.7 |
| 9348413 | B-122A | < 0.3 |
| 9348414 | A-105 | < 0.3 |
| 9348415 | A-108 | < 0.3 |
| 9348416 | A-108 | 0.7 |
| 9348417 | BUSINESS ADMIN | < 0.3 |
| 9348418 | B-122 | < 0.3 |
| 9348419 | A-111 | 0.6 |
| 9348420 | A-112 | < 0.3 |
| 9348421 | CAFE | < 0.3 |
| 9348422 | CAFE | < 0.3 |
| 9348423 | B-117 | < 0.3 |
| 9348424 | B-118 | < 0.3 |
| 9348425 | B-120-B | < 0.3 |
| 9348426 | B-109-A | 0.6 |
| 9348427 | B-108-C | < 0.3 |
| 9348428 | B-116 | < 0.3 |
| 9348429 | B-117 | < 0.3 |
| 9348430 | B-118 | < 0.3 |
| 9348431 | B-109 | < 0.3 |
| 9348432 | B-109-B | < 0.3 |

| | | |
|---------|---------|-------|
| 9348433 | B-109 | < 0.3 |
| 9348434 | B-108 | < 0.3 |
| 9348435 | B-108 | 0.8 |
| 9348436 | B-107 | < 0.3 |
| 9348437 | B-107 | < 0.3 |
| 9348438 | B-107 | < 0.3 |
| 9348439 | B-107-C | < 0.3 |
| 9348440 | B-106 | < 0.3 |
| 9348441 | B-106-C | < 0.3 |
| 9348442 | B-105-B | < 0.3 |
| 9348443 | B-105 | < 0.3 |
| 9348444 | B-105 | < 0.3 |
| 9348445 | B-104 | 0.9 |
| 9348446 | B-104 | < 0.3 |
| 9348447 | B-104-C | < 0.3 |
| 9348448 | B-104-C | 0.6 |
| 9348449 | B-103 | < 0.3 |
| 9348450 | B-102-D | < 0.3 |
| 9348451 | B-102 | < 0.3 |
| 9348452 | B-101 | 0.5 |
| 9348453 | G-111 | 3 |
| 9348454 | G-109 | 1.2 |
| 9348455 | G-108 | 1.1 |
| 9348456 | G-107 | < 0.3 |
| 9348457 | G-105 | < 0.3 |
| 9348458 | G-110 | 0.9 |
| 9348459 | G-106 | 0.9 |
| 9348460 | G-110 | 1.2 |
| 9348461 | F-108 | 0.9 |
| 9348462 | G-12 | < 0.3 |
| 9348463 | G-8 | 2.4 |
| 9348464 | G-11 | < 0.3 |
| 9348465 | F-113 | 0.6 |
| 9348466 | G-101 | 0.7 |
| 9348467 | G-8 | 2.1 |
| 9348468 | G-1 | 0.8 |
| 9348469 | G-2 | < 0.3 |
| 9348470 | G-11 | < 0.3 |
| 9348471 | F-109 | < 0.3 |
| 9348472 | E-113 | < 0.3 |
| 9348473 | F-107 | < 0.3 |
| 9348474 | F-101 | < 0.3 |
| 9348475 | F-106 | 1.4 |
| 9348476 | F-107 | 1 |
| 9348477 | F-102 | < 0.3 |
| 9348478 | F-103 | < 0.3 |
| 9348479 | F-105 | < 0.3 |

| | | |
|---------|----------------|-------|
| 9348480 | F-104 | 0.8 |
| 9348481 | E-118 | 0.7 |
| 9348482 | E-111 | 0.7 |
| 9348483 | E-110 | 0.6 |
| 9348484 | E-113 | 0.7 |
| 9348485 | E-114 | < 0.3 |
| 9348486 | E-115 | < 0.3 |
| 9348487 | E-115 | < 0.3 |
| 9348488 | E-116 OFFICE | 1.3 |
| 9348489 | E-116 | 3 |
| 9348490 | E-117 | < 0.3 |
| 9348491 | E-106 | 1.3 |
| 9348492 | E-111 | 0.6 |
| 9348493 | C-101-O | < 0.3 |
| 9348494 | C-101-Q | 1.2 |
| 9348495 | E-111 WORKROOM | 0.8 |
| 9348496 | C-101-P | 1 |
| 9348497 | E-105 | 0.8 |
| 9348498 | E-105 | < 0.3 |
| 9348499 | E-107 | < 0.3 |
| 9348500 | E-108 | 0.7 |

| Table 2- Radon Testing Results | | | |
|--------------------------------|---------------|-------------|--------|
| Springbrook High School | | | |
| Test Period: 1/6/2020-1/9/2020 | | | |
| Kit Number | QC Type | Room / Area | Result |
| 9348402 | D | A-103 | <0.3 |
| 9348410 | FB | A-106 | <0.3 |
| 9348416 | D | A-108 | 0.7 |
| 9348430 | D | B-118 | <0.3 |
| 9348423 | FB | B-117 | <0.3 |
| 9348437 | D | B-107 | <0.3 |
| 9348446 | D | B-104 | <0.3 |
| 9348447 | FB | B-104-C | <0.3 |
| 9348460 | D | G-110 | 1.2 |
| 9348467 | D | G-8 | 2.1 |
| 9348470 | FB | G-11 | <0.3 |
| 9348473 | D | F-107 | <0.3 |
| 9348486 | D | E-115 | <0.3 |
| 9348472 | FB | E-113 | <0.3 |
| 9348498 | D | E-105 | <0.3 |
| 9347099 | D | C-101-J | 0.7 |
| 9347088 | FB | C-101-G | <0.3 |
| 9347087 | D | C-101-A | <0.3 |
| 9347079 | D | WEIGHT ROOM | 2.5 |
| 9347078 | FB | TRAINER | <0.3 |
| 9347069 | D | D-107-G | 1.1 |
| 9347054 | D | STAGE | 2.1 |
| 9347051 | FB | G-202 | <0.3 |
| 9347047 | D | E-206 | <0.3 |
| 9348319 | TRANSIT BLANK | NA | <0.3 |
| 9348320 | TRANSIT BLANK | NA | <0.3 |
| 9348313 | TRANSIT BLANK | NA | <0.3 |

ATTACHMENT C

Laboratory Analytical Results

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 |
|---------|---------|----------------------|----------------------|------------------|------------|
| 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:

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

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

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 |
|---------|---------|----------------------|----------------------|------------------|------------|
| 9340052 | N/A | 2019-12-21 @ 8:00 am | 2019-12-23 @ 8:00 am | 27.4 \pm 2.6 D | 2020-01-03 |
| 9340057 | N/A | 2019-12-21 @ 8:00 am | 2019-12-23 @ 8:00 am | 27.3 \pm 2.5 D | 2020-01-03 |
| 9340025 | N/A | 2019-12-21 @ 8:00 am | 2019-12-23 @ 8:00 am | 25.1 \pm 2.4 D | 2020-01-03 |
| 9341711 | N/A | 2019-12-21 @ 9:00 am | 2019-12-23 @ 9:00 am | 22.5 \pm 2.2 D | 2020-01-03 |
| 9340079 | N/A | 2019-12-21 @ 9:00 am | 2019-12-23 @ 9:00 am | 26.9 \pm 2.5 D | 2020-01-03 |
| 9340062 | N/A | 2019-12-21 @ 9:00 am | 2019-12-23 @ 9:00 am | 25.6 \pm 2.5 D | 2020-01-03 |
| 9340030 | N/A | 2019-12-21 @ 8:00 am | 2019-12-23 @ 8:00 am | 25.0 \pm 2.4 D | 2020-01-03 |
| 9341716 | N/A | 2019-12-21 @ 9:00 am | 2019-12-23 @ 9:00 am | 25.1 \pm 2.4 D | 2020-01-03 |
| 9340084 | N/A | 2019-12-21 @ 9:00 am | 2019-12-23 @ 9:00 am | 24.5 \pm 2.3 D | 2020-01-03 |

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: 0830 Time Stop: 0830

(Group 4)
Device No.'s: (20) Char. Bags -

9340061 thru 9340080

Temp of _____
RH % 50.1
Avg pCi/L 25.5

52

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

Time Start: 0835 Time Stop: 0835

(Group 5)
Device No.'s: (20) Char. Bags -

9340081 thru 9340100

Temp of _____
RH % 50.1
Avg pCi/L 25.5

25

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

Time Start: 0840 Time Stop: 0840

(Group 6)
Device No.'s: (20) Char. Bags -

9341701 thru 9341720

Temp of _____
RH % 50.1
Avg pCi/L 25.5

25

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

Radon test result report for:
SPRINGBROOK HS
MAIN

| Kit # | Room Id | Started | Ended | pCi/L | Analyzed |
|---------|------------|----------------------|-----------------------|-----------|------------|
| 9348403 | A-102 | 2020-01-06 @ 7:00 am | 2020-01-09 @ 9:00 am | < 0.3 | 2020-01-14 |
| 9348402 | A-103 | 2020-01-06 @ 7:00 am | 2020-01-09 @ 9:00 am | < 0.3 | 2020-01-14 |
| 9348401 | A-103 | 2020-01-06 @ 7:00 am | 2020-01-09 @ 9:00 am | < 0.3 | 2020-01-14 |
| 9348407 | A-104 | 2020-01-06 @ 7:00 am | 2020-01-09 @ 9:00 am | 0.7 ± 0.4 | 2020-01-14 |
| 9348414 | A-105 | 2020-01-06 @ 8:00 am | 2020-01-09 @ 9:00 am | < 0.3 | 2020-01-14 |
| 9348410 | A-106 | 2020-01-06 @ 8:00 am | 2020-01-09 @ 9:00 am | < 0.3 | 2020-01-14 |
| 9348406 | A-106 | 2020-01-06 @ 7:00 am | 2020-01-09 @ 9:00 am | < 0.3 | 2020-01-14 |
| 9348415 | A-108 | 2020-01-06 @ 8:00 am | 2020-01-09 @ 9:00 am | < 0.3 | 2020-01-14 |
| 9348416 | A-108 | 2020-01-06 @ 8:00 am | 2020-01-09 @ 9:00 am | 0.7 ± 0.5 | 2020-01-14 |
| 9348405 | A-109 | 2020-01-06 @ 8:00 am | 2020-01-09 @ 9:00 am | < 0.3 | 2020-01-14 |
| 9348419 | A-111 | 2020-01-06 @ 8:00 am | 2020-01-09 @ 9:00 am | 0.6 ± 0.5 | 2020-01-14 |
| 9348420 | A-112 | 2020-01-06 @ 8:00 am | 2020-01-09 @ 9:00 am | < 0.3 | 2020-01-14 |
| 9348408 | A-114 | 2020-01-06 @ 7:00 am | 2020-01-09 @ 9:00 am | < 0.3 | 2020-01-14 |
| 9348409 | ATTENDANCE | 2020-01-06 @ 7:00 am | 2020-01-09 @ 9:00 am | < 0.3 | 2020-01-14 |
| 9347057 | AUDITORIUM | 2020-01-06 @ 1:00 pm | 2020-01-09 @ 12:00 pm | 1.4 ± 0.5 | 2020-01-14 |
| 9347055 | AUDITORIUM | 2020-01-06 @ 1:00 pm | 2020-01-09 @ 12:00 pm | 2.1 ± 0.5 | 2020-01-14 |
| 9347058 | AUDITORIUM | 2020-01-06 @ 1:00 pm | 2020-01-09 @ 12:00 pm | 1.7 ± 0.5 | 2020-01-14 |
| 9347056 | AUDITORIUM | 2020-01-06 @ 1:00 pm | 2020-01-09 @ 12:00 pm | 2.4 ± 0.5 | 2020-01-14 |
| 9348452 | B-101 | 2020-01-06 @ 9:00 am | 2020-01-09 @ 10:00 am | 0.5 ± 0.4 | 2020-01-14 |
| 9348451 | B-102 | 2020-01-06 @ 9:00 am | 2020-01-09 @ 10:00 am | < 0.3 | 2020-01-14 |
| 9348450 | B-102-D | 2020-01-06 @ 9:00 am | 2020-01-09 @ 10:00 am | < 0.3 | 2020-01-14 |
| 9348449 | B-103 | 2020-01-06 @ 9:00 am | 2020-01-09 @ 10:00 am | < 0.3 | 2020-01-14 |
| 9348446 | B-104 | 2020-01-06 @ 9:00 am | 2020-01-09 @ 10:00 am | < 0.3 | 2020-01-14 |
| 9348445 | B-104 | 2020-01-06 @ 9:00 am | 2020-01-09 @ 10:00 am | 0.9 ± 0.4 | 2020-01-14 |
| 9348447 | B-104-C | 2020-01-06 @ 9:00 am | 2020-01-09 @ 10:00 am | < 0.3 | 2020-01-14 |
| 9348448 | B-104-C | 2020-01-06 @ 9:00 am | 2020-01-09 @ 10:00 am | 0.6 ± 0.4 | 2020-01-14 |
| 9348444 | B-105 | 2020-01-06 @ 9:00 am | 2020-01-09 @ 10:00 am | < 0.3 | 2020-01-14 |
| 9348443 | B-105 | 2020-01-06 @ 9:00 am | 2020-01-09 @ 10:00 am | < 0.3 | 2020-01-14 |
| 9348442 | B-105-B | 2020-01-06 @ 9:00 am | 2020-01-09 @ 10:00 am | < 0.3 | 2020-01-14 |
| 9348440 | B-106 | 2020-01-06 @ 9:00 am | 2020-01-09 @ 10:00 am | < 0.3 | 2020-01-14 |
| 9348441 | B-106-C | 2020-01-06 @ 9:00 am | 2020-01-09 @ 10:00 am | < 0.3 | 2020-01-14 |
| 9348436 | B-107 | 2020-01-06 @ 9:00 am | 2020-01-09 @ 10:00 am | < 0.3 | 2020-01-14 |
| 9348437 | B-107 | 2020-01-06 @ 9:00 am | 2020-01-09 @ 10:00 am | < 0.3 | 2020-01-14 |
| 9348438 | B-107 | 2020-01-06 @ 9:00 am | 2020-01-09 @ 10:00 am | < 0.3 | 2020-01-14 |
| 9348439 | B-107-C | 2020-01-06 @ 9:00 am | 2020-01-09 @ 10:00 am | < 0.3 | 2020-01-14 |
| 9348434 | B-108 | 2020-01-06 @ 9:00 am | 2020-01-09 @ 10:00 am | < 0.3 | 2020-01-14 |
| 9348435 | B-108 | 2020-01-06 @ 9:00 am | 2020-01-09 @ 10:00 am | 0.8 ± 0.4 | 2020-01-14 |

Radon test result report for:
SPRINGBROOK HS
MAIN

| Kit # | Room Id | Started | Ended | pCi/L | Analyzed |
|---------|----------------|-----------------------|-----------------------|-----------|------------|
| 9348427 | B-108-C | 2020-01-06 @ 9:00 am | 2020-01-09 @ 10:00 am | < 0.3 | 2020-01-14 |
| 9348431 | B-109 | 2020-01-06 @ 8:00 am | 2020-01-09 @ 10:00 am | < 0.3 | 2020-01-14 |
| 9348433 | B-109 | 2020-01-06 @ 8:00 am | 2020-01-09 @ 10:00 am | < 0.3 | 2020-01-14 |
| 9348426 | B-109-A | 2020-01-06 @ 9:00 am | 2020-01-09 @ 10:00 am | 0.6 ± 0.4 | 2020-01-14 |
| 9348432 | B-109-B | 2020-01-06 @ 9:00 am | 2020-01-09 @ 10:00 am | < 0.3 | 2020-01-14 |
| 9348428 | B-116 | 2020-01-06 @ 8:00 am | 2020-01-09 @ 10:00 am | < 0.3 | 2020-01-14 |
| 9348429 | B-117 | 2020-01-06 @ 8:00 am | 2020-01-09 @ 10:00 am | < 0.3 | 2020-01-14 |
| 9348423 | B-117 | 2020-01-06 @ 8:00 am | 2020-01-09 @ 10:00 am | < 0.3 | 2020-01-14 |
| 9348424 | B-118 | 2020-01-06 @ 8:00 am | 2020-01-09 @ 12:00 pm | < 0.3 | 2020-01-14 |
| 9348430 | B-118 | 2020-01-06 @ 8:00 am | 2020-01-09 @ 12:00 pm | < 0.3 | 2020-01-14 |
| 9348425 | B-120-B | 2020-01-06 @ 8:00 am | 2020-01-09 @ 10:00 am | < 0.3 | 2020-01-14 |
| 9348418 | B-122 | 2020-01-06 @ 8:00 am | 2020-01-09 @ 10:00 am | < 0.3 | 2020-01-14 |
| 9348413 | B-122A | 2020-01-06 @ 8:00 am | 2020-01-09 @ 10:00 am | < 0.3 | 2020-01-14 |
| 9348412 | B-122B | 2020-01-06 @ 8:00 am | 2020-01-09 @ 10:00 am | 0.7 ± 0.4 | 2020-01-14 |
| 9348417 | BUSINESS ADMIN | 2020-01-06 @ 8:00 am | 2020-01-09 @ 9:00 am | < 0.3 | 2020-01-14 |
| 9347082 | C-101 | 2020-01-06 @ 12:00 pm | 2020-01-09 @ 12:00 pm | < 0.3 | 2020-01-14 |
| 9347084 | C-101-A | 2020-01-06 @ 12:00 pm | 2020-01-09 @ 12:00 pm | < 0.3 | 2020-01-14 |
| 9347087 | C-101-A | 2020-01-06 @ 12:00 pm | 2020-01-09 @ 12:00 pm | < 0.3 | 2020-01-14 |
| 9347086 | C-101-B | 2020-01-06 @ 12:00 pm | 2020-01-09 @ 12:00 pm | 0.7 ± 0.4 | 2020-01-14 |
| 9347089 | C-101-D | 2020-01-06 @ 11:00 am | 2020-01-09 @ 12:00 pm | < 0.3 | 2020-01-14 |
| 9347098 | C-101-E | 2020-01-06 @ 11:00 am | 2020-01-09 @ 12:00 pm | < 0.3 | 2020-01-14 |
| 9347100 | C-101-G | 2020-01-06 @ 11:00 am | 2020-01-09 @ 12:00 pm | 0.6 ± 0.4 | 2020-01-14 |
| 9347088 | C-101-G | 2020-01-06 @ 11:00 am | 2020-01-09 @ 12:00 pm | < 0.3 | 2020-01-14 |
| 9347092 | C-101-H | 2020-01-06 @ 11:00 am | 2020-01-09 @ 12:00 pm | < 0.3 | 2020-01-14 |
| 9347097 | C-101-J | 2020-01-06 @ 11:00 am | 2020-01-09 @ 12:00 pm | < 0.3 | 2020-01-14 |
| 9347099 | C-101-J | 2020-01-06 @ 11:00 am | 2020-01-09 @ 12:00 pm | 0.7 ± 0.4 | 2020-01-14 |
| 9347094 | C-101-K | 2020-01-06 @ 11:00 am | 2020-01-09 @ 12:00 pm | < 0.3 | 2020-01-14 |
| 9347096 | C-101-L | 2020-01-06 @ 11:00 am | 2020-01-09 @ 12:00 pm | < 0.3 | 2020-01-14 |
| 9347095 | C-101-M | 2020-01-06 @ 11:00 am | 2020-01-09 @ 12:00 pm | 1.2 ± 0.4 | 2020-01-14 |
| 9348493 | C-101-O | 2020-01-06 @ 11:00 am | 2020-01-09 @ 12:00 pm | < 0.3 | 2020-01-14 |
| 9348496 | C-101-P | 2020-01-06 @ 11:00 am | 2020-01-09 @ 12:00 pm | 1.0 ± 0.4 | 2020-01-14 |
| 9348494 | C-101-Q | 2020-01-06 @ 11:00 am | 2020-01-09 @ 12:00 pm | 1.2 ± 0.4 | 2020-01-14 |
| 9347091 | C-101-R | 2020-01-06 @ 11:00 am | 2020-01-09 @ 12:00 pm | 0.6 ± 0.4 | 2020-01-14 |
| 9347085 | C-101-S | 2020-01-06 @ 12:00 pm | 2020-01-09 @ 12:00 pm | < 0.3 | 2020-01-14 |
| 9347080 | C-102 | 2020-01-06 @ 12:00 pm | 2020-01-09 @ 12:00 pm | 0.8 ± 0.5 | 2020-01-14 |
| 9347081 | C-102-A | 2020-01-06 @ 12:00 pm | 2020-01-09 @ 12:00 pm | < 0.3 | 2020-01-14 |
| 9347090 | C-102-D | 2020-01-06 @ 12:00 pm | 2020-01-09 @ 12:00 pm | < 0.3 | 2020-01-14 |

Radon test result report for:
SPRINGBROOK HS
MAIN

| Kit # | Room Id | Started | Ended | pCi/L | Analyzed |
|---------|----------------|-----------------------|-----------------------|-----------|------------|
| 9347046 | C-206 | 2020-01-06 @ 1:00 pm | 2020-01-09 @ 11:00 am | 2.0 ± 0.5 | 2020-01-14 |
| 9348422 | CAFE | 2020-01-06 @ 8:00 am | 2020-01-09 @ 10:00 am | < 0.3 | 2020-01-14 |
| 9348411 | CAFE | 2020-01-06 @ 8:00 am | 2020-01-09 @ 10:00 am | < 0.3 | 2020-01-14 |
| 9348421 | CAFE | 2020-01-06 @ 8:00 am | 2020-01-09 @ 10:00 am | < 0.3 | 2020-01-14 |
| 9347059 | D-1 AUX GYM 1 | 2020-01-06 @ 1:00 pm | 2020-01-09 @ 12:00 pm | 1.8 ± 0.5 | 2020-01-14 |
| 9347066 | D-1 AUX GYM 1 | 2020-01-06 @ 1:00 pm | 2020-01-09 @ 12:00 pm | 1.4 ± 0.4 | 2020-01-14 |
| 9347060 | D-101 | 2020-01-06 @ 12:00 pm | 2020-01-09 @ 1:00 pm | 0.9 ± 0.5 | 2020-01-14 |
| 9347073 | D-102 | 2020-01-06 @ 12:00 pm | 2020-01-09 @ 12:00 pm | 1.2 ± 0.4 | 2020-01-14 |
| 9347063 | D-103 | 2020-01-06 @ 12:00 pm | 2020-01-09 @ 1:00 pm | 1.7 ± 0.5 | 2020-01-14 |
| 9347076 | D-104 | 2020-01-06 @ 12:00 pm | 2020-01-09 @ 12:00 pm | 3.6 ± 0.5 | 2020-01-14 |
| 9347074 | D-104 | 2020-01-06 @ 12:00 pm | 2020-01-09 @ 12:00 pm | 3.3 ± 0.5 | 2020-01-14 |
| 9347072 | D-104 | 2020-01-06 @ 12:00 pm | 2020-01-09 @ 12:00 pm | 3.6 ± 0.5 | 2020-01-14 |
| 9347075 | D-104 | 2020-01-06 @ 12:00 pm | 2020-01-09 @ 12:00 pm | 3.3 ± 0.5 | 2020-01-14 |
| 9347077 | D-105 | 2020-01-06 @ 12:00 pm | 2020-01-09 @ 12:00 pm | 2.6 ± 0.5 | 2020-01-14 |
| 9347070 | D-107 | 2020-01-06 @ 1:00 pm | 2020-01-09 @ 12:00 pm | 0.9 ± 0.5 | 2020-01-14 |
| 9347069 | D-107-G | 2020-01-06 @ 12:00 pm | 2020-01-09 @ 12:00 pm | 1.1 ± 0.4 | 2020-01-14 |
| 9347067 | D-107-G | 2020-01-06 @ 12:00 pm | 2020-01-09 @ 12:00 pm | 1.0 ± 0.4 | 2020-01-14 |
| 9347064 | D-108 | 2020-01-06 @ 1:00 pm | 2020-01-09 @ 12:00 pm | 0.6 ± 0.4 | 2020-01-14 |
| 9347065 | D-108-A | 2020-01-06 @ 1:00 pm | 2020-01-09 @ 12:00 pm | < 0.3 | 2020-01-14 |
| 9347062 | D-108-H | 2020-01-06 @ 12:00 pm | 2020-01-09 @ 12:00 pm | 0.9 ± 0.4 | 2020-01-14 |
| 9347061 | D-108-PR | 2020-01-06 @ 12:00 pm | 2020-01-09 @ 12:00 pm | 0.9 ± 0.4 | 2020-01-14 |
| 9348498 | E-105 | 2020-01-06 @ 11:00 am | 2020-01-09 @ 12:00 pm | < 0.3 | 2020-01-14 |
| 9348497 | E-105 | 2020-01-06 @ 11:00 am | 2020-01-09 @ 12:00 pm | 0.8 ± 0.4 | 2020-01-14 |
| 9348491 | E-106 | 2020-01-06 @ 11:00 am | 2020-01-09 @ 12:00 pm | 1.3 ± 0.4 | 2020-01-14 |
| 9348499 | E-107 | 2020-01-06 @ 11:00 am | 2020-01-09 @ 1:00 pm | < 0.3 | 2020-01-14 |
| 9348500 | E-108 | 2020-01-06 @ 11:00 am | 2020-01-09 @ 12:00 pm | 0.7 ± 0.4 | 2020-01-14 |
| 9347083 | E-109 | 2020-01-06 @ 12:00 pm | 2020-01-09 @ 12:00 pm | < 0.3 | 2020-01-14 |
| 9348483 | E-110 | 2020-01-06 @ 11:00 am | 2020-01-09 @ 12:00 pm | 0.6 ± 0.4 | 2020-01-14 |
| 9348482 | E-111 | 2020-01-06 @ 11:00 am | 2020-01-09 @ 12:00 pm | 0.7 ± 0.4 | 2020-01-14 |
| 9348492 | E-111 | 2020-01-06 @ 11:00 am | 2020-01-09 @ 12:00 pm | 0.6 ± 0.4 | 2020-01-14 |
| 9348495 | E-111 WORKROOM | 2020-01-06 @ 11:00 am | 2020-01-09 @ 12:00 pm | 0.8 ± 0.4 | 2020-01-14 |
| 9348484 | E-113 | 2020-01-06 @ 10:00 am | 2020-01-09 @ 12:00 pm | 0.7 ± 0.4 | 2020-01-14 |
| 9348472 | E-113 | 2020-01-06 @ 10:00 am | 2020-01-09 @ 12:00 pm | < 0.3 | 2020-01-14 |
| 9348485 | E-114 | 2020-01-06 @ 10:00 am | 2020-01-09 @ 12:00 pm | < 0.3 | 2020-01-14 |
| 9348486 | E-115 | 2020-01-06 @ 10:00 am | 2020-01-09 @ 1:00 pm | < 0.3 | 2020-01-14 |
| 9348487 | E-115 | 2020-01-06 @ 10:00 am | 2020-01-09 @ 1:00 pm | < 0.3 | 2020-01-14 |
| 9348489 | E-116 | 2020-01-06 @ 10:00 am | 2020-01-09 @ 11:00 am | 3.0 ± 0.6 | 2020-01-14 |

Radon test result report for:
SPRINGBROOK HS
MAIN

| Kit # | Room Id | Started | Ended | pCi/L | Analyzed |
|---------|--------------|-----------------------|-----------------------|-----------|------------|
| 9348488 | E-116 OFFICE | 2020-01-06 @ 10:00 am | 2020-01-09 @ 11:00 am | 1.3 ± 0.5 | 2020-01-14 |
| 9348490 | E-117 | 2020-01-06 @ 10:00 am | 2020-01-09 @ 11:00 am | < 0.3 | 2020-01-14 |
| 9348481 | E-118 | 2020-01-06 @ 10:00 am | 2020-01-09 @ 11:00 am | 0.7 ± 0.4 | 2020-01-14 |
| 9347047 | E-206 | 2020-01-06 @ 1:00 pm | 2020-01-09 @ 11:00 am | < 0.3 | 2020-01-14 |
| 9347048 | E-206 | 2020-01-06 @ 1:00 pm | 2020-01-09 @ 11:00 am | < 0.3 | 2020-01-14 |
| 9348474 | F-101 | 2020-01-06 @ 10:00 am | 2020-01-09 @ 11:00 am | < 0.3 | 2020-01-14 |
| 9348477 | F-102 | 2020-01-06 @ 10:00 am | 2020-01-09 @ 11:00 am | < 0.3 | 2020-01-14 |
| 9348478 | F-103 | 2020-01-06 @ 10:00 am | 2020-01-09 @ 11:00 am | < 0.3 | 2020-01-14 |
| 9348480 | F-104 | 2020-01-06 @ 10:00 am | 2020-01-09 @ 11:00 am | 0.8 ± 0.5 | 2020-01-14 |
| 9348479 | F-105 | 2020-01-06 @ 10:00 am | 2020-01-09 @ 11:00 am | < 0.3 | 2020-01-14 |
| 9348475 | F-106 | 2020-01-06 @ 10:00 am | 2020-01-09 @ 11:00 am | 1.4 ± 0.5 | 2020-01-14 |
| 9348473 | F-107 | 2020-01-06 @ 10:00 am | 2020-01-09 @ 11:00 am | < 0.3 | 2020-01-14 |
| 9348476 | F-107 | 2020-01-06 @ 10:00 am | 2020-01-09 @ 11:00 am | 1.0 ± 0.4 | 2020-01-14 |
| 9348461 | F-108 | 2020-01-06 @ 10:00 am | 2020-01-09 @ 11:00 am | 0.9 ± 0.5 | 2020-01-14 |
| 9348471 | F-109 | 2020-01-06 @ 10:00 am | 2020-01-09 @ 11:00 am | < 0.3 | 2020-01-14 |
| 9348465 | F-113 | 2020-01-06 @ 10:00 am | 2020-01-09 @ 11:00 am | 0.6 ± 0.4 | 2020-01-14 |
| 9347049 | F-201 | 2020-01-06 @ 1:00 pm | 2020-01-09 @ 11:00 am | < 0.3 | 2020-01-14 |
| 9347050 | F-209 | 2020-01-06 @ 1:00 pm | 2020-01-09 @ 11:00 am | < 0.3 | 2020-01-14 |
| 9348468 | G-1 | 2020-01-06 @ 10:00 am | 2020-01-09 @ 11:00 am | 0.8 ± 0.4 | 2020-01-14 |
| 9348466 | G-101 | 2020-01-06 @ 10:00 am | 2020-01-09 @ 11:00 am | 0.7 ± 0.4 | 2020-01-14 |
| 9348457 | G-105 | 2020-01-06 @ 10:00 am | 2020-01-09 @ 11:00 am | < 0.3 | 2020-01-14 |
| 9348459 | G-106 | 2020-01-06 @ 10:00 am | 2020-01-09 @ 11:00 am | 0.9 ± 0.5 | 2020-01-14 |
| 9348456 | G-107 | 2020-01-06 @ 9:00 am | 2020-01-09 @ 11:00 am | < 0.3 | 2020-01-14 |
| 9348455 | G-108 | 2020-01-06 @ 9:00 am | 2020-01-09 @ 11:00 am | 1.1 ± 0.4 | 2020-01-14 |
| 9348454 | G-109 | 2020-01-06 @ 9:00 am | 2020-01-09 @ 11:00 am | 1.2 ± 0.5 | 2020-01-14 |
| 9348464 | G-11 | 2020-01-06 @ 10:00 am | 2020-01-09 @ 11:00 am | < 0.3 | 2020-01-14 |
| 9348470 | G-11 | 2020-01-06 @ 10:00 am | 2020-01-09 @ 11:00 am | < 0.3 | 2020-01-14 |
| 9348460 | G-110 | 2020-01-06 @ 9:00 am | 2020-01-09 @ 11:00 am | 1.2 ± 0.4 | 2020-01-14 |
| 9348458 | G-110 | 2020-01-06 @ 9:00 am | 2020-01-09 @ 11:00 am | 0.9 ± 0.5 | 2020-01-14 |
| 9348453 | G-111 | 2020-01-06 @ 9:00 am | 2020-01-09 @ 11:00 am | 3.0 ± 0.5 | 2020-01-14 |
| 9348462 | G-12 | 2020-01-06 @ 10:00 am | 2020-01-09 @ 11:00 am | < 0.3 | 2020-01-14 |
| 9348469 | G-2 | 2020-01-06 @ 10:00 am | 2020-01-09 @ 11:00 am | < 0.3 | 2020-01-14 |
| 9347052 | G-202 | 2020-01-06 @ 1:00 pm | 2020-01-09 @ 11:00 am | 0.8 ± 0.5 | 2020-01-14 |
| 9347051 | G-202 | 2020-01-06 @ 1:00 pm | 2020-01-09 @ 11:00 am | < 0.3 | 2020-01-14 |
| 9347045 | G-209 | 2020-01-06 @ 1:00 pm | 2020-01-09 @ 11:00 am | 1.1 ± 0.5 | 2020-01-14 |
| 9347044 | G-307 | 2020-01-06 @ 2:00 pm | 2020-01-09 @ 11:00 am | 0.8 ± 0.4 | 2020-01-14 |
| 9348463 | G-8 | 2020-01-06 @ 10:00 am | 2020-01-09 @ 11:00 am | 2.4 ± 0.5 | 2020-01-14 |

January 14, 2020

**** LABORATORY ANALYSIS REPORT ****

Radon test result report for:
SPRINGBROOK HS
MAIN

| Kit # | Room Id | Started | Ended | pCi/L | Analyzed |
|--------------|----------------|-----------------------|-----------------------|--------------|-----------------|
| 9348467 | G-8 | 2020-01-06 @ 10:00 am | 2020-01-09 @ 11:00 am | 2.1 ± 0.5 | 2020-01-14 |
| 9348404 | MAIN OFFICE | 2020-01-06 @ 7:00 am | 2020-01-09 @ 9:00 am | < 0.3 | 2020-01-14 |
| 9347054 | STAGE | 2020-01-06 @ 1:00 pm | 2020-01-09 @ 12:00 pm | 2.1 ± 0.5 | 2020-01-14 |
| 9347053 | STAGE | 2020-01-06 @ 1:00 pm | 2020-01-09 @ 12:00 pm | 2.1 ± 0.5 | 2020-01-14 |
| 9347068 | TRAINER | 2020-01-06 @ 12:00 pm | 2020-01-09 @ 12:00 pm | 2.0 ± 0.5 | 2020-01-14 |
| 9347078 | TRAINER | 2020-01-06 @ 12:00 pm | 2020-01-09 @ 12:00 pm | < 0.3 | 2020-01-14 |
| 9347079 | WEIGHT ROOM | 2020-01-06 @ 12:00 pm | 2020-01-09 @ 12:00 pm | 2.5 ± 0.5 | 2020-01-14 |
| 9347071 | WEIGHT ROOM | 2020-01-06 @ 12:00 pm | 2020-01-09 @ 12:00 pm | 3.0 ± 0.5 | 2020-01-14 |

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



Radon Test Kit Chain of Custody

Project Name: MCPS Radon 2019 Week 3

Name of Schools:

- | | |
|------------------------------|----------------------------|
| 1. Bannockburn E.S. | 12. Montgomery Knolls E.S. |
| 2. Bethesda E.S. | 13. Newport Mills M.S. |
| 3. Bethesda-Chevy Chase H.S. | 14. Oak View E.S. |
| 4. Bradley Hill E.S. | 15. Rock View E.S. |
| 5. Burning Tree E.S. | 16. Roscoe Nix E.S. |
| 6. Burnt Mills E.S. | 17. Sligo M.S. |
| 7. East Silver Springs E.S. | 18. Spring Mill Center |
| 8. Einstein H.S. | 19. Springbrook H.S. |
| 9. Flora Singer E.S. | 20. Westland M.S. |
| 10. Key M.S. | 21. Woodlin M.S. |
| 11. Montgomery Blair H.S. | |

| | Date | Initials |
|----------------------------------|----------------------|----------|
| Radon Test Kits Deployed | 1/6/20 to 1/7/20 | JM |
| Radon Test Kits Collected | 1/9/20 to 1/10/20 | JM |
| Radon Test Kits Shipped to Lab* | 1/10/20 | JM |
| Radon Test Kits Received by Lab* | 1/13/202 | JM |

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

RADON SCREENING SURVEY – FOLLOW-UP SPRINGBROOK HIGH SCHOOL

201 Valley Brook Dr.,

Silver Spring, Maryland 20904

EXECUTIVE SUMMARY

| | |
|--|--|
| Date of Test Report: | 3/29/19 |
| Round of Testing: | Initial Follow-up Post Remediation |
| # Rooms Tested | 6 |
| # Rooms \geq 4.0 pCi/L: | 0 |
| Low Value: | <0.4 |
| High Value: | 1.0 |
| Confirmed Rooms \geq 4.0 pCi/L US EPA Action Level | 1 |

Summary of Sampling Events \geq 4.0 pCi/L

| Room | Result (pCi/L) 2/21/19 | Result (pCi/L) 3/29/19 | Average Result (pCi/L) |
|------------|---------------------------|---------------------------|---------------------------|
| 112 | missing | 0.6 | 0.6 |
| F112 | messed | <0.4 | <0.4 |
| F109 | missing | 1.0 | 1.0 |
| G12 | messed | <0.4 | <0.4 |
| B122 | <0.4 | <0.4 | <0.4 |
| B122(D) | Unable to report | <0.4 | <0.4 |
| Auditorium | missing | 1.0 | 1.0 |
| E116 | 9.5 | Not sampled | 9.5 |



MONTGOMERY COUNTY PUBLIC SCHOOLS RADON TESTING

Executive Summary: Springbrook High School

201 Valley Brook Drive
Silver Spring, MD 20904

| | |
|------------------------------|---|
| Date of Test Report: | 3/29/2019 |
| Round of Testing: | Initial Follow-up Post Remediation 2 Year Testing 5 Year Testing HVAC Upgrade Window Replacement New Addition New Facility |
| # of Rooms Tested: | 6 |
| # of Rooms \geq 4.0 pCi/L: | 0 |
| Low Value: | <0.4 |
| High Value: | 1.8 |

Project Status

Missing Samples: Room E116

Current Project Status at this time: Retesting completed; remediation recommended for Room E116.



March 29, 2019

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

Re: Radon Testing Services

Location: Springbrook High School
201 Valley Brook Drive,
Silver Spring, MD 20904

Dear Mr. Cox:

Intertek-PSI (PSI) is pleased to submit the following report to the Montgomery County Public Schools (MCPS) for completion of a “short-term” 3-day radon test for Springbrook High School, located at 201 Valley Brook Drive, Silver Spring, MD 20904 (subject site).

Scope of Services:

PSI conducted radon testing at the subject site to evaluate indoor radon levels relative to the USEPA's recommended action level of 4.0 picocuries per Liter (pCi/L) - the level at which EPA recommends that schools take action to reduce the level. PSI conducted the radon testing in accordance with American Association of Radon Scientists and Technologists (AARST) Protocol for Conducting Measurements of Radon and Radon Decay Products in Schools and Large Buildings. A National Radon Safety Board (NRSB) Radon Measurement Specialist (certification #14SS007) supervised the testing. Additional information on radon management and the health effects of radon exposure is available from www.montgomerycountymd.gov/dep/air/radon or www.epa.gov/radon.

PSI visited the site on February 25, 2019 and deployed seven (7) activated charcoal (AC) radon test kit. PSI deployed radon test kits in frequently-occupied ground contact rooms, and other areas, (if applicable) in accordance with AARST guidance. PSI returned to the site on February 28, 2019 to retrieve the radon sampling test kit. A floor plan map of the building with the test location is included as Attachment A of this report.

PSI shipped all radon tests via overnight delivery to AccuStar Labs for analysis by gamma-ray spectroscopy. Accustar Labs is a NRSB certified analytical laboratory for radon analysis located at 929 Mount Zion Road, Lebanon, Pennsylvania (certification # ARL0007).

Evaluation of Testing Conditions:

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

PSI concludes that the test period reasonably represents normal conditions when the building is significantly



occupied. Clear characterization of the radon hazard is most likely to be observed under this normal operating condition. Based on the evaluation of test conditions, this test should reasonably characterize radon hazards.

PSI also conducted observations of field conditions which could affect the results of the test and compiled weather data for the testing period. PSI recorded observations of the following conditions in each room at the time of deployment and collection of the radon test kits:

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

Results:

The results of the radon test analysis indicated the following:

| Radon Concentration | Room | Result |
|----------------------------|------------------|---------------|
| ≥ 4.0 pCi/L | None | NA |
| ≤ 4.0 pCi/L | See Attachment B | |

Notes:

D -Duplicate Sample

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

The sampling locations, field observations, and analytical results are listed on Table 1 (Attachment B). The laboratory analytical results are also attached (Attachment C).

Laboratory results and exposure data for the spike samples are also included in Attachment C. Our professional services have been performed in accordance with customary principles and practices in the field of industrial hygiene and engineering. If you have any questions or comments regarding this report, please feel free to contact me at (703) 698-9300.



Respectfully Submitted,

INTERTEK-PSI

A handwritten signature in black ink that reads "Nand Kaushik". The signature is written in a cursive, flowing style.

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

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

ATTACHMENT B

Radon Test Summary Spreadsheet

| Radon Testing Results | | |
|--|--------------------|-----------------------|
| Springbrook High School | | |
| Testing period: 02/25/19 - 02/28/19 | | |
| Kit Number | Room / Area | Result (pCi/L) |
| 3923476 | Room 112 | 0.6 |
| 3923473 | Room F112 | <0.4 |
| 3923474 | Room F109 | 1.0 |
| 3923471 | Room G12 | <0.4 |
| 3923453 | Room B122 | <0.4 |
| 3923472 | Room B122 (D) | <0.4 |
| 3923460 | Auditorium | 1.0 |
| 3923472 | Auditorium (D) | <0.4 |
| 3923452 | E116 (Missing) | -- |

Table Notes:

D – Duplicate

FB – Field Blank

OB – Office Blank

TB – Transit Blank

QC – Quality Control

ATTACHMENT C

Laboratory Analytical Results

NRPP 105011 AL
NRSB ARL0007

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

Laboratory Report for:

Property Tested: Project # 04481387-1

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

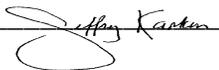
MCPS Radon Survey Springbrook HS
201 Valley Brook Drive
Silver Spring MD 20904

| Log Number | Device Number | Test Exposure | Duration: | Area Tested | Result pCi/L |
|------------|---------------|--------------------|--------------------|--------------------------------|--------------|
| 3220662 | 3923476 | 02/25/2019 1:20 pm | 02/28/2019 1:00 pm | Floor Main Room 112 | 0.6 |
| 3220663 | 3923473 | 02/25/2019 1:24 pm | 02/28/2019 1:01 pm | Floor Main Room F112 | < 0.4 |
| 3220664 | 3923474 | 02/25/2019 1:26 pm | 02/28/2019 1:02 pm | Floor Main Room F109 | 1.0 |
| 3220665 | 3923471 | 02/25/2019 1:35 pm | 02/28/2019 1:04 pm | Floor Main Room G12 | < 0.4 |
| 3220666 | 3923453 | 02/25/2019 1:42 pm | 02/28/2019 1:05 pm | Floor Main Room B122 | < 0.4 |
| 3220667 | 3923472 | 02/25/2019 1:42 pm | 02/28/2019 1:06 pm | Floor Main Room B122 Duplicate | < 0.4 |
| 3220668 | 3923460 | 02/25/2019 1:46 pm | 02/28/2019 1:07 pm | Floor Main Room Auditorium | 1.0 |

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

Distributed by: Intertek-PSI (VA)

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

Report Reviewed By: 

Report Approved By: 

Disclaimer:

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

Shawn Price, Director of Laboratory Operations, AccuStar Labs

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



MONTGOMERY COUNTY PUBLIC SCHOOLS RADON TESTING

Executive Summary: Springbrook High School

201 Valley Brook Drive
Silver Spring, MD 20904

| | |
|---|---|
| Date of Test Report: | 02/21/2019 |
| Round of Testing: | Initial Follow-up Post Remediation 2 Year Testing 5 Year Testing HVAC Upgrade Window Replacement New Addition New Facility |
| # of Rooms Tested: | 127 |
| # of Rooms \geq 4.0 pCi/L: | 1 |
| Low Value: | < 0.4 |
| High Value: | 9.5 |
| Rooms with Results \geq 4.0 pCi/L: | E116 |

Project Status

Initial testing complete: Re-test needed for results \geq 4.0 pCi/L.
Missing or compromised samples need re-test.



February 21, 2019

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

Re: Radon Testing Services

Location: Springbrook High School
201 Valley Brook Drive,
Silver Spring, MD 20904

Dear Mr. Cox:

Intertek-PSI (PSI) is pleased to submit the following report to the Montgomery County Public Schools (MCPS) for completion of a "short-term" 3-day radon test for Springbrook High School, located at 201 Valley Brook Drive, Silver Spring, MD 20904 (subject site).

Scope of Services:

PSI conducted radon testing at the subject site to evaluate indoor radon levels relative to the USEPA's recommended action level of 4.0 picocuries per Liter (pCi/L) - the level at which EPA recommends that schools take action to reduce the level. PSI conducted the radon testing in accordance with American Association of Radon Scientists and Technologists (AARST) Protocol for Conducting Measurements of Radon and Radon Decay Products in Schools and Large Buildings. A National Radon Safety Board (NRSB) Radon Measurement Specialist (certification #14SS007) supervised the testing. Additional information on radon management and the health effects of radon exposure is available from www.montgomerycountymd.gov/dep/air/radon or www.epa.gov/radon.

PSI visited the site on November 13, 2018 and deployed one hundred and fifty-six (156) activated charcoal (AC) radon test kits. PSI deployed radon test kits in frequently-occupied ground contact rooms, and other areas, (if applicable) in accordance with AARST guidance. PSI returned to the site on November 16, 2018 to retrieve the radon sampling test kits. A floor plan map of the building with the test locations is included as Attachment A of this report.

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

PSI shipped all radon tests via overnight delivery to AccuStar Labs for analysis by gamma-ray spectroscopy. Accustar Labs is a NRSB certified analytical laboratory for radon analysis located at 929 Mount Zion Road, Lebanon, Pennsylvania (certification # ARL0007) and 2 Saber Way, Haverhill, Massachusetts (certification # ARL0017).



Evaluation of Testing Conditions:

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

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

PSI also conducted observations of field conditions which could affect the results of the test and compiled weather data for the testing period. PSI recorded observations of the following conditions in each room at the time of deployment and collection of the radon test kits:

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

Results:

The results of the radon test analysis indicated the following:

| Radon Concentration | Room | Result |
|----------------------------|------------------|---------------|
| ≥ 4.0 pCi/L | E116 | 9.5 |
| ≤ 4.0 pCi/L | See Attachment B | |

Notes:

D -Duplicate Sample

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

The sampling locations, field observations, and analytical results are listed on Table 1 (Attachment B). The laboratory analytical results are also attached (Attachment C).

Laboratory results and exposure data for the spike samples are also included in Attachment C. Our professional services have been performed in accordance with customary principles and practices in the field of industrial hygiene and engineering. If you have any questions or comments regarding this report, please feel free to contact me at (703) 698-9300.



Respectfully Submitted,

INTERTEK-PSI

A handwritten signature in black ink that reads "Nand Kaushik". The signature is written in a cursive, flowing style.

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

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

ATTACHMENT B

Radon Test Summary Spreadsheet

| Radon Testing Results | | |
|--|-----------------------------|-----------------------|
| Springbrook High School | | |
| Testing period: 11/13/18 - 11/16/18 | | |
| Kit Number | Room / Area | Result (pCi/L) |
| 3916239 | A101 | <0.4 |
| 3916242 | A102 | <0.4 |
| 3916244 | A103 | <0.4 |
| 3916245 | A104 | <0.4 |
| 3916246 | A105 | <0.4 |
| 3916247 | A106 | <0.4 |
| 3916250 | A108 | <0.4 |
| 3916249 | A109 | <0.4 |
| 3916001 | A110 | <0.4 |
| 3916002 | A111 | <0.4 |
| 3916243 | A114 | <0.4 |
| 3916240 | Attendance | <0.4 |
| 3916228 | Auditorium | 0.7 |
| 3916227 | Auditorium (MISSING) | -- |
| 3881179 | Aux Gym | 3.5 |
| 3881252 | Aux Gym | 3.8 |
| 3916235 | B101 | <0.4 |
| 3916233 | B102 | <0.4 |
| 3916234 | B102D | <0.4 |
| 3916269 | B103 | <0.4 |
| 3916264 | B104 | <0.4 |
| 3916265 | B104C | <0.4 |
| 3916218 | B105 | <0.4 |
| 3916263 | B105B | <0.4 |
| 3916213 | B106 | <0.4 |
| 3916215 | B106C | <0.4 |
| 3916216 | B106D | <0.4 |
| 3916211 | B107 | <0.4 |
| 3916212 | B107C | <0.4 |
| 3916214 | B108 | 0.4 |
| 3916217 | B108C | <0.4 |
| 3916220 | B109A | <0.4 |
| 3916261 | B109B | <0.4 |
| 3916219 | B110 | <0.4 |
| 3916267 | B116 | <0.4 |
| 3916266 | B117 | <0.4 |
| 3916231 | B120 | <0.4 |
| 3916232 | B120 | <0.4 |
| 3916236 | B122 | <0.4 |
| 3916237 | B122 | <0.4 |
| 3881202 | Boy's Locker Room | 3.0 |
| 3881222 | Boy's Locker Room (MISSING) | -- |
| 3916170 | C101 | <0.4 |

| Radon Testing Results | | |
|--|-------------------------|-----------------------|
| Springbrook High School | | |
| Testing period: 11/13/18 - 11/16/18 | | |
| Kit Number | Room / Area | Result (pCi/L) |
| 3916178 | C101 | <0.4 |
| 3916181 | C101 | <0.4 |
| 3916186 | C101A | <0.4 |
| 3916143 | C101B | 0.4 |
| 3916144 | C101D | <0.4 |
| 3916146 | C101E | <0.4 |
| 3916145 | C101G | <0.4 |
| 3916180 | C101H | <0.4 |
| 3916175 | C101J | <0.4 |
| 3916172 | C101K | 0.4 |
| 3916176 | C101L | 0.4 |
| 3916179 | C101M | 1.4 |
| 3916185 | C101Q | 1.4 |
| 3916174 | C101R | 0.4 |
| 3916141 | C101S | <0.4 |
| 3916182 | C102 | <0.4 |
| 3916183 | C102A | <0.4 |
| 3916184 | C102D | 0.5 |
| 3916197 | C103E | 2.5 |
| 3916210 | C205 | 0.9 |
| 3916207 | C301 | 0.6 |
| 3881162 | Cafeteria | <0.4 |
| 3881172 | Cafeteria | <0.4 |
| 3916195 | Call box | <0.4 |
| 3916150 | Coach's Office | 0.9 |
| 3916200 | Concession | <0.4 |
| 3916241 | Copy Room 112 (MISSING) | -- |
| 3881182 | D014 | 2.1 |
| 3881251 | D014 | 2.3 |
| 3916229 | D101 | <0.4 |
| 3881159 | D102 | 0.8 |
| 3916164 | D104 | 1.6 |
| 3916163 | D105 | 2.0 |
| 3916162 | D107 | 1.0 |
| 3916165 | D107E | 1.4 |
| 3916161 | D107G | 1.1 |
| 3916166 | D108 | 1.0 |
| 3916168 | D108A | 1.1 |
| 3881169 | D111 | 2.0 |
| 3881192 | D111 | 1.7 |
| 3916189 | D112 | 0.9 |
| 3916149 | D115 | 1.9 |
| 3916190 | D117 | 1.3 |

| Radon Testing Results | | |
|--|--------------------|-----------------------|
| Springbrook High School | | |
| Testing period: 11/13/18 - 11/16/18 | | |
| Kit Number | Room / Area | Result (pCi/L) |
| 3916187 | D118 | 0.8 |
| 3916169 | D7 | 2.3 |
| 3916226 | E105 | 0.5 |
| 3916225 | E106 | 0.4 |
| 3916221 | E107 | <0.4 |
| 3916223 | E108 | 0.4 |
| 3916224 | E108 Office | 0.6 |
| 3916222 | E109 | 0.5 |
| 3916011 | E110 | 0.6 |
| 3916012 | E111 | 0.8 |
| 3916013 | E113 | 0.6 |
| 3916015 | E114 | 1.4 |
| 3916016 | E115 | 0.5 |
| 3916017 | E116 | 9.5 |
| 3916018 | E116 | 2.8 |
| 3916019 | E117 | 0.7 |
| 3916020 | E118 | 1.4 |
| 3916205 | E207 | 0.6 |
| 3196203 | E309 | 0.5 |
| 3916160 | F101 | 0.4 |
| 3916159 | F102 | 1.8 |
| 3916156 | F103 | 0.6 |
| 3916157 | F104 | 2.5 |
| 3916155 | F105 | <0.4 |
| 3916153 | F106 | 2.7 |
| 3916259 | F107 | 1.0 |
| 3916151 | F108 | 0.8 |
| 3916152 | F109 (MISSING) | -- |
| -- | F112 (MISSED) | -- |
| 3916256 | F113 | 0.9 |
| 3916254 | F113 Office | 0.8 |
| 3916206 | F202 | 0.9 |
| 3916204 | F302 | 0.5 |
| 3916251 | G1 | <0.4 |
| 3916253 | G101 | <0.4 |
| 3916010 | G105 | <0.4 |
| 3916255 | G106 | 0.6 |
| 3916009 | G107 | <0.4 |
| 3916007 | G108 | 0.7 |
| 3916005 | G109 | 0.5 |
| 3916258 | G11 | <0.4 |
| 3916003 | G110 | <0.4 |
| 3916004 | G111 | 3.7 |

| Radon Testing Results | | |
|--|--------------------|-----------------------|
| Springbrook High School | | |
| Testing period: 11/13/18 - 11/16/18 | | |
| Kit Number | Room / Area | Result (pCi/L) |
| 3916006 | G111A | 3.2 |
| -- | G12 (MISSED) | -- |
| 3916260 | G2 | <0.4 |
| 3916209 | G201 | 0.7 |
| 3916252 | G3 | 1.7 |
| 3916201 | G312 | 0.8 |
| 3916257 | G8 | 0.6 |
| 3916148 | Girl's Room Stage | 1.2 |
| 3916268 | Kitchen Office | <0.4 |
| 3916173 | Stage Office | 1.1 |
| 3916188 | Studio 3 | 0.8 |
| 3916171 | Weight Room | 0.7 |
| 3916729 | Weight Room Office | 0.5 |

| Radon Testing Results | | |
|--|--------------------|-----------------------|
| Springbrook High School | | |
| Testing period: 11/13/18 - 11/16/18 | | |
| Kit Number | QC Type | Result (pCi/L) |
| 3916248 | A106 (D) | 0.7 |
| 3916262 | B109B (D) | <0.4 |
| 3916270 | B120 (D) | <0.4 |
| 3916238 | B122 (D) | Unable to Report |
| 3916177 | C101L (D) | 0.4 |
| 3916142 | C101S (D) | <0.4 |
| 3916208 | C301 (D) | 0.4 |
| 3916230 | D101 (D) | <0.4 |
| 3916167 | D108A (D) | 0.9 |
| 3916014 | E113 (D) | 0.7 |
| 3916158 | F104 (D) | 2.4 |
| 3916154 | F106 (D) | 3.1 |
| 3916008 | G107 (D) | <0.4 |
| 3916609 | Coach's Office (D) | 0.7 |
| 3916147 | Stage Office (D) | 1.1 |
| 3918182 | Field Blank | <0.4 |
| 3918037 | Field Blank | Unable to Report |
| 3918013 | Office Blank | <0.4 |
| 3918046 | Trip Blank | <0.4 |

Table Notes:

D – Duplicate

FB – Field Blank

OB – Office Blank

TB – Transit Blank

QC – Quality Control

ATTACHMENT C

Laboratory Analytical Results

NELAC NY 11769
NRPP 103216 AL
NRSB ARL0017

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

Laboratory Report for:

Property Tested: Project # 04481387-1

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

MCPS Radon Survey
Springbrook High School
MD 20904

| Log Number | Device Number | Test Exposure Duration: | Area Tested | Result pCi/L |
|------------|---------------|---|---|--------------|
| 2393598 | 3916001 | 11/13/2018 7:41 am - 11/16/2018 8:05 am | Bldg Springbrook High School Floor 1 Room A11 | < 0.4 |
| 2393599 | 3916002 | 11/13/2018 7:42 am - 11/16/2018 8:26 am | Bldg Springbrook High School Floor 1 Room A11 | < 0.4 |
| 2393600 | 3916003 | 11/13/2018 7:47 am - 11/16/2018 6:54 am | Bldg Springbrook High School Floor 1 Room G11 | < 0.4 |
| 2393601 | 3916004 | 11/13/2018 7:47 am - 11/16/2018 6:04 am | Bldg Springbrook High School Floor 1 Room G11 | 3.7 |
| 2393602 | 3916005 | 11/13/2018 7:50 am - 11/16/2018 6:08 am | Bldg Springbrook High School Floor 1 Room G10 | 0.5 |
| 2393603 | 3916006 | 11/13/2018 7:52 am - 11/16/2018 6:04 am | Bldg Springbrook High School Floor 1 Room G11 | 3.2 |
| 2393604 | 3916007 | 11/13/2018 7:52 am - 11/16/2018 6:02 am | Bldg Springbrook High School Floor 1 Room G10 | 0.7 |
| 2393605 | 3916008 | 11/13/2018 7:53 am - 11/16/2018 6:59 am | Bldg Springbrook High School Floor 1 Room G10 | < 0.4 |
| 2393606 | 3916009 | 11/13/2018 7:53 am - 11/16/2018 6:09 am | Bldg Springbrook High School Floor 1 Room G10 | < 0.4 |
| 2393607 | 3916010 | 11/13/2018 7:55 am - 11/16/2018 7:00 am | Bldg Springbrook High School Floor 1 Room G10 | < 0.4 |
| 2393608 | 3916011 | 11/13/2018 8:35 am - 11/16/2018 7:03 am | Bldg Springbrook High School Floor 1 Room E11 | 0.6 |

Comment: Unable to report a result for 3918037. Device counts below blank counts. A copy of this report was emailed to Intertek-PSI (VA).

Distributed by: Intertek-PSI (VA)

Date Received: 11/17/2018 Date Logged: 11/17/2018 Date Analyzed: 11/18/2018 Date Reported: 01/02/2019

Report Reviewed By: 

Report Approved By: 

Shawn Price, Director of Laboratory Operations, AccuStar Labs

Disclaimer:

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NELAC NY 11769
NRPP 103216 AL
NRSB ARL0017

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

Laboratory Report for:

Property Tested: Project # 04481387-1

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

MCPS Radon Survey
Springbrook High School
MD 20904

| Log Number | Device Number | Test Exposure Duration: | | | | Area Tested | Result pCi/L |
|------------|---------------|-------------------------|---------|------------|---------|---|--------------|
| 2393609 | 3916012 | 11/13/2018 | 8:34 am | 11/16/2018 | 7:23 am | Bldg Springbrook High School Floor 1 Room E11 | 0.8 |
| 2393610 | 3916013 | 11/13/2018 | 8:33 am | 11/16/2018 | 7:06 am | Bldg Springbrook High School Floor 1 Room E11 | 0.6 |
| 2393611 | 3916014 | 11/13/2018 | 8:33 am | 11/16/2018 | 7:06 am | Bldg Springbrook High School Floor 1 Room E11 | 0.7 |
| 2393612 | 3916015 | 11/13/2018 | 8:32 am | 11/16/2018 | 7:16 am | Bldg Springbrook High School Floor 1 Room E11 | 1.4 |
| 2393613 | 3916016 | 11/13/2018 | 8:32 am | 11/16/2018 | 7:16 am | Bldg Springbrook High School Floor 1 Room E11 | 0.5 |
| 2393614 | 3916017 | 11/13/2018 | 8:30 am | 11/16/2018 | 7:00 am | Bldg Springbrook High School Floor 1 Room E11 | 9.5 |
| 2393615 | 3916018 | 11/13/2018 | 8:30 am | 11/16/2018 | 7:20 am | Bldg Springbrook High School Floor 1 Room E11 | 2.8 |
| 2393616 | 3916019 | 11/13/2018 | 8:29 am | 11/16/2018 | 7:13 am | Bldg Springbrook High School Floor 1 Room E11 | 0.7 |
| 2393617 | 3916020 | 11/13/2018 | 8:28 am | 11/16/2018 | 7:13 am | Bldg Springbrook High School Floor 1 Room E11 | 1.4 |
| 2393618 | 3916141 | 11/13/2018 | 9:42 am | 11/16/2018 | 7:39 am | Bldg Springbrook High School Floor 1 Room C10 | < 0.4 |
| 2393619 | 3916142 | 11/13/2018 | 9:42 am | 11/16/2018 | 7:39 am | Bldg Springbrook High School Floor 1 Room C10 | < 0.4 |

Comment: Unable to report a result for 3918037. Device counts below blank counts. A copy of this report was emailed to Intertek-PSI (VA).

Distributed by: Intertek-PSI (VA)

Date Received: 11/17/2018 Date Logged: 11/17/2018 Date Analyzed: 11/18/2018 Date Reported: 01/02/2019

Report Reviewed By: 

Report Approved By: 

Shawn Price, Director of Laboratory Operations, AccuStar Labs

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NELAC NY 11769
NRPP 103216 AL
NRSB ARL0017

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

Laboratory Report for:

Property Tested: Project # 04481387-1

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

MCPS Radon Survey
Springbrook High School
MD 20904

| Log Number | Device Number | Test Exposure Duration: | Area Tested | Result pCi/L |
|------------|---------------|--|---|--------------|
| 2393620 | 3916143 | 11/13/2018 9:46 am 11/16/2018 7:39 am | Bldg Springbrook High School Floor 1 Room C10 | 0.4 |
| 2393621 | 3916144 | 11/13/2018 9:46 am 11/16/2018 7:40 am | Bldg Springbrook High School Floor 1 Room C10 | < 0.4 |
| 2393622 | 3916145 | 11/13/2018 9:47 am 11/16/2018 7:41 am | Bldg Springbrook High School Floor 1 Room C10 | < 0.4 |
| 2393623 | 3916146 | 11/13/2018 9:49 am 11/16/2018 7:02 am | Bldg Springbrook High School Floor 1 Room C10 | < 0.4 |
| 2393624 | 3916147 | 11/13/2018 10:26 am 11/16/2018 7:59 am | Bldg Springbrook High School Flr 1 Rm Stage Off | 1.1 |
| 2393625 | 3916165 | 11/12/2018 8:47 am 11/15/2018 7:32 am | Floor First Room 100B | 1.4 |
| 2393626 | 3916148 | 11/13/2018 10:27 am 11/16/2018 8:12 am | Bldg Springbrook High School Flr 1 Rm Girl's Rm | 1.2 |
| 2393627 | 3916166 | 11/12/2018 8:52 am 11/15/2018 7:32 am | Floor First Room 102 | 1.0 |
| 2393628 | 3916149 | 11/13/2018 10:00 am 11/16/2018 8:30 am | Bldg Springbrook High School Floor 1 Room D11 | 1.9 |
| 2393629 | 3916150 | 11/13/2018 9:47 am 11/16/2018 8:30 am | Bldg Springbrook High School Flr 1 Rm Coach's | 0.9 |
| 2393630 | 3916151 | 11/13/2018 8:08 am 11/16/2018 7:03 am | Bldg Springbrook High School Floor 1 Room F10 | 0.8 |

Comment: Unable to report a result for 3918037. Device counts below blank counts. A copy of this report was emailed to Intertek-PSI (VA).

Distributed by: Intertek-PSI (VA)

Date Received: 11/17/2018 Date Logged: 11/17/2018 Date Analyzed: 11/18/2018 Date Reported: 01/02/2019

Report Reviewed By: 

Report Approved By: 

Shawn Price, Director of Laboratory Operations, AccuStar Labs

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NELAC NY 11769
NRPP 103216 AL
NRSB ARL0017

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

Laboratory Report for:

Property Tested: Project # 04481387-1

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

MCPS Radon Survey
Springbrook High School
MD 20904

| Log Number | Device Number | Test Exposure Duration: | | | | Area Tested | Result pCi/L |
|------------|---------------|-------------------------|---------|------------|---------|---|--------------|
| 2393632 | 3916153 | 11/13/2018 | 8:13 am | 11/16/2018 | 7:07 am | Bldg Springbrook High School Floor 1 Room F10 | 2.7 |
| 2393633 | 3916154 | 11/13/2018 | 8:13 am | 11/16/2018 | 7:07 am | Bldg Springbrook High School Floor 1 Room F10 | 3.1 |
| 2393634 | 3916155 | 11/13/2018 | 8:18 am | 11/16/2018 | 7:09 am | Bldg Springbrook High School Floor 1 Room F10 | < 0.4 |
| 2393635 | 3916156 | 11/13/2018 | 8:20 am | 11/16/2018 | 7:10 am | Bldg Springbrook High School Floor 1 Room F10 | 0.6 |
| 2393636 | 3916157 | 11/13/2018 | 8:21 am | 11/16/2018 | 7:00 am | Bldg Springbrook High School Floor 1 Room F10 | 2.5 |
| 2393637 | 3916158 | 11/13/2018 | 8:21 am | 11/16/2018 | 7:00 am | Bldg Springbrook High School Floor 1 Room F10 | 2.4 |
| 2393638 | 3916159 | 11/13/2018 | 8:24 am | 11/16/2018 | 7:11 am | Bldg Springbrook High School Floor 1 Room F10 | 1.8 |
| 2393639 | 3916160 | 11/13/2018 | 8:27 am | 11/16/2018 | 7:11 am | Bldg Springbrook High School Floor 1 Room F10 | 0.4 |
| 2393640 | 3916161 | 11/13/2018 | 9:09 am | 11/16/2018 | 8:01 am | Bldg Springbrook High School Floor 1 Room D10 | 1.1 |
| 2393641 | 3916162 | 11/13/2018 | 9:18 am | 11/16/2018 | 8:03 am | Bldg Springbrook High School Floor 1 Room D10 | 1.0 |
| 2393642 | 3916163 | 11/13/2018 | 9:20 am | 11/16/2018 | 8:11 am | Bldg Springbrook High School Floor 1 Room D10 | 2.0 |

Comment: Unable to report a result for 3918037. Device counts below blank counts. A copy of this report was emailed to Intertek-PSI (VA).

Distributed by: Intertek-PSI (VA)

Date Received: 11/17/2018 Date Logged: 11/17/2018 Date Analyzed: 11/18/2018 Date Reported: 01/02/2019

Report Reviewed By: 

Report Approved By: 

Shawn Price, Director of Laboratory Operations, AccuStar Labs

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NELAC NY 11769
NRPP 103216 AL
NRSB ARL0017

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

Laboratory Report for:

Property Tested: Project # 04481387-1

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

MCPS Radon Survey
Springbrook High School
MD 20904

| Log Number | Device Number | Test Exposure Duration: | Area Tested | Result pCi/L |
|------------|---------------|--|---|--------------|
| 2393643 | 3916164 | 11/13/2018 9:21 am 11/16/2018 8:12 am | Bldg Springbrook High School Floor 1 Room D10 | 1.6 |
| 2393644 | 3916167 | 11/13/2018 9:24 am 11/16/2018 8:04 am | Bldg Springbrook High School Floor 1 Room D10 | 0.9 |
| 2393645 | 3916168 | 11/13/2018 9:24 am 11/16/2018 8:04 am | Bldg Springbrook High School Floor 1 Room D10 | 1.1 |
| 2393646 | 3916169 | 11/13/2018 9:30 am 11/16/2018 8:10 am | Bldg Springbrook High School Flr Lower Level R | 2.3 |
| 2393647 | 3916170 | 11/13/2018 9:36 am 11/16/2018 7:39 am | Bldg Springbrook High School Floor 1 Room C10 | < 0.4 |
| 2393648 | 3916171 | 11/13/2018 9:44 am 11/16/2018 8:29 am | Bldg Springbrook High School Flr 1 Rm Weight R | 0.7 |
| 2393649 | 3916172 | 11/13/2018 9:56 am 11/16/2018 7:44 am | Bldg Springbrook High School Floor 1 Room C10 | 0.4 |
| 2393650 | 3916173 | 11/13/2018 10:06 am 11/16/2018 7:59 am | Bldg Springbrook High School Flr 1 Rm Stage Off | 1.1 |
| 2393651 | 3916174 | 11/13/2018 9:54 am 11/16/2018 7:44 am | Bldg Springbrook High School Floor 1 Room C10 | 0.4 |
| 2393652 | 3916175 | 11/13/2018 9:55 am 11/16/2018 7:44 am | Bldg Springbrook High School Floor 1 Room C10 | < 0.4 |
| 2393653 | 3916176 | 11/13/2018 9:57 am 11/16/2018 7:46 am | Bldg Springbrook High School Floor 1 Room C10 | 0.4 |

Comment: Unable to report a result for 3918037. Device counts below blank counts. A copy of this report was emailed to Intertek-PSI (VA).

Distributed by: Intertek-PSI (VA)

Date Received: 11/17/2018 Date Logged: 11/17/2018 Date Analyzed: 11/18/2018 Date Reported: 01/02/2019

Report Reviewed By: 

Report Approved By: 

Shawn Price, Director of Laboratory Operations, AccuStar Labs

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NELAC NY 11769
NRPP 103216 AL
NRSB ARL0017

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

Laboratory Report for:

Property Tested: Project # 04481387-1

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

MCPS Radon Survey
Springbrook High School
MD 20904

| Log Number | Device Number | Test | Exposure | Duration: | Area Tested | Result pCi/L |
|------------|---------------|------------|----------|--------------------|---|--------------|
| 2393654 | 3916177 | 11/13/2018 | 9:57 am | 11/16/2018 7:46 am | Bldg Springbrook High School Floor 1 Room C10 | 0.4 |
| 2393655 | 3916178 | 11/13/2018 | 10:01 am | 11/16/2018 7:45 am | Bldg Springbrook High School Floor 1 Room C10 | < 0.4 |
| 2393656 | 3916179 | 11/13/2018 | 10:00 am | 11/16/2018 7:45 am | Bldg Springbrook High School Floor 1 Room C10 | 1.4 |
| 2393657 | 3916180 | 11/13/2018 | 9:53 am | 11/16/2018 7:48 am | Bldg Springbrook High School Floor 1 Room C10 | < 0.4 |
| 2393658 | 3916181 | 11/13/2018 | 9:40 am | 11/16/2018 7:36 am | Bldg Springbrook High School Floor 1 Room C10 | < 0.4 |
| 2393659 | 3916182 | 11/13/2018 | 9:33 am | 11/16/2018 7:34 am | Bldg Springbrook High School Floor 1 Room C10 | < 0.4 |
| 2393660 | 3916183 | 11/13/2018 | 9:33 am | 11/16/2018 7:34 am | Bldg Springbrook High School Floor 1 Room C10 | < 0.4 |
| 2393661 | 3916184 | 11/13/2018 | 9:34 am | 11/16/2018 7:34 am | Bldg Springbrook High School Floor 1 Room C10 | 0.5 |
| 2393662 | 3916185 | 11/13/2018 | 9:37 am | 11/16/2018 7:34 am | Bldg Springbrook High School Floor 1 Room C10 | 1.4 |
| 2393663 | 3916186 | 11/13/2018 | 9:41 am | 11/16/2018 7:38 am | Bldg Springbrook High School Floor 1 Room C10 | < 0.4 |
| 2393664 | 3916187 | 11/13/2018 | 9:41 am | 11/16/2018 8:25 am | Bldg Springbrook High School Floor 1 Room D11 | 0.8 |

Comment: Unable to report a result for 3918037. Device counts below blank counts. A copy of this report was emailed to Intertek-PSI (VA).

Distributed by: Intertek-PSI (VA)

Date Received: 11/17/2018 Date Logged: 11/17/2018 Date Analyzed: 11/18/2018 Date Reported: 01/02/2019

Report Reviewed By: 

Report Approved By: 

Shawn Price, Director of Laboratory Operations, AccuStar Labs

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NELAC NY 11769
NRPP 103216 AL
NRSB ARL0017

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

Laboratory Report for:

Property Tested: Project # 04481387-1

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

MCPS Radon Survey
Springbrook High School
MD 20904

| Log Number | Device Number | Test Exposure Duration: | | Area Tested | Result pCi/L |
|------------|---------------|-------------------------|--------------------|--|--------------|
| 2393665 | 3916188 | 11/13/2018 9:42 am | 11/16/2018 8:26 am | Bldg Springbrook High School Flr 1 Rm Studio 3 | 0.8 |
| 2393666 | 3916189 | 11/13/2018 9:35 am | 11/16/2018 8:23 am | Bldg Springbrook High School Floor 1 Room D11 | 0.9 |
| 2393667 | 3916190 | 11/13/2018 9:40 am | 11/16/2018 8:24 am | Bldg Springbrook High School Floor 1 Room D11 | 1.3 |
| 2393668 | 3916195 | 11/13/2018 11:32 am | 11/16/2018 9:02 am | Bldg Springbrook High School Flr 2 Rm Call box | < 0.4 |
| 2393669 | 3916197 | 11/13/2018 11:15 am | 11/16/2018 8:10 am | Bldg Springbrook High School Floor 1 Room C10 | 2.5 |
| 2393670 | 3916200 | 11/13/2018 11:36 am | 11/16/2018 9:02 am | Bldg Springbrook High School Flr 1 Rm Concessi | < 0.4 |
| 2393671 | 3916201 | 11/13/2018 10:53 am | 11/16/2018 7:46 am | Bldg Springbrook High School Floor 3 Room G31 | 0.8 |
| 2393672 | 3916204 | 11/13/2018 11:01 am | 11/16/2018 7:42 am | Bldg Springbrook High School Floor 3 Room F30 | 0.5 |
| 2393673 | 3916205 | 11/13/2018 10:50 am | 11/16/2018 7:45 am | Bldg Springbrook High School Floor 2 Room E20 | 0.6 |
| 2393674 | 3916206 | 11/13/2018 10:51 am | 11/16/2018 7:46 am | Bldg Springbrook High School Floor 2 Room F20 | 0.9 |
| 2393675 | 3916207 | 11/13/2018 10:56 am | 11/16/2018 7:47 am | Bldg Springbrook High School Floor 3 Room C30 | 0.6 |

Comment: Unable to report a result for 3918037. Device counts below blank counts. A copy of this report was emailed to Intertek-PSI (VA).

Distributed by: Intertek-PSI (VA)

Date Received: 11/17/2018 Date Logged: 11/17/2018 Date Analyzed: 11/18/2018 Date Reported: 01/02/2019

Report Reviewed By: 

Report Approved By: 

Shawn Price, Director of Laboratory Operations, AccuStar Labs

Disclaimer:

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

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NELAC NY 11769
NRPP 103216 AL
NRSB ARL0017

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

Laboratory Report for:

Property Tested: Project # 04481387-1

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

MCPS Radon Survey
Springbrook High School
MD 20904

| Log Number | Device Number | Test Exposure Duration: | Area Tested | Result pCi/L |
|------------|---------------|--|---|--------------|
| 2393676 | 3916208 | 11/13/2018 10:56 am 11/16/2018 7:48 am | Bldg Springbrook High School Floor 3 Room C30 | 0.4 |
| 2393677 | 3916209 | 11/13/2018 10:42 am 11/16/2018 7:43 am | Bldg Springbrook High School Floor 2 Room G20 | 0.7 |
| 2393678 | 3916210 | 11/13/2018 10:47 am 11/16/2018 7:44 am | Bldg Springbrook High School Floor 2 Room C20 | 0.9 |
| 2393679 | 3916211 | 11/13/2018 6:44 am 11/16/2018 6:18 am | Bldg Springbrook High School Floor 1 Room B10 | < 0.4 |
| 2393680 | 3916212 | 11/13/2018 6:47 am 11/16/2018 6:08 am | Bldg Springbrook High School Floor 1 Room B10 | < 0.4 |
| 2393681 | 3916213 | 11/13/2018 6:50 am 11/16/2018 6:22 am | Bldg Springbrook High School Floor 1 Room B10 | < 0.4 |
| 2393682 | 3916214 | 11/13/2018 6:51 am 11/16/2018 6:24 am | Bldg Springbrook High School Floor 1 Room B10 | 0.4 |
| 2393683 | 3916215 | 11/13/2018 6:52 am 11/16/2018 6:02 am | Bldg Springbrook High School Floor 1 Room B10 | < 0.4 |
| 2393684 | 3916216 | 11/13/2018 6:52 am 11/16/2018 6:22 am | Bldg Springbrook High School Floor 1 Room B10 | < 0.4 |
| 2393685 | 3916217 | 11/13/2018 6:53 am 11/16/2018 6:24 am | Bldg Springbrook High School Floor 1 Room B10 | < 0.4 |
| 2393686 | 3916218 | 11/13/2018 6:56 am 11/16/2018 6:29 am | Bldg Springbrook High School Floor 1 Room B10 | < 0.4 |

Comment: Unable to report a result for 3918037. Device counts below blank counts. A copy of this report was emailed to Intertek-PSI (VA).

Distributed by: Intertek-PSI (VA)

Date Received: 11/17/2018 Date Logged: 11/17/2018 Date Analyzed: 11/18/2018 Date Reported: 01/02/2019

Report Reviewed By: 

Report Approved By: 

Shawn Price, Director of Laboratory Operations, AccuStar Labs

Disclaimer:

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NELAC NY 11769
NRPP 103216 AL
NRSB ARL0017

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

Laboratory Report for:

Property Tested: Project # 04481387-1

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

MCPS Radon Survey
Springbrook High School
MD 20904

| Log Number | Device Number | Test Exposure Duration: | Area Tested | Result pCi/L |
|------------|---------------|---------------------------------------|---|--------------|
| 2393687 | 3916219 | 11/13/2018 6:55 am 11/16/2018 6:06 am | Bldg Springbrook High School Floor 1 Room B11 | < 0.4 |
| 2393688 | 3916220 | 11/13/2018 6:59 am 11/16/2018 6:36 am | Bldg Springbrook High School Floor 1 Room B10 | < 0.4 |
| 2393689 | 3916221 | 11/13/2018 8:39 am 11/16/2018 7:56 am | Bldg Springbrook High School Floor 1 Room E10 | < 0.4 |
| 2393690 | 3916222 | 11/13/2018 8:41 am 11/16/2018 7:24 am | Bldg Springbrook High School Floor 1 Room E10 | 0.5 |
| 2393691 | 3916223 | 11/13/2018 8:48 am 11/16/2018 7:30 am | Bldg Springbrook High School Floor 1 Room E10 | 0.4 |
| 2393692 | 3916224 | 11/13/2018 8:58 am 11/16/2018 7:30 am | Bldg Springbrook High School Flr 1 Rm E108 Offi | 0.6 |
| 2393693 | 3916225 | 11/13/2018 8:43 am 11/16/2018 7:29 am | Bldg Springbrook High School Floor 1 Room E10 | 0.4 |
| 2393694 | 3916226 | 11/13/2018 8:46 am 11/16/2018 7:28 am | Bldg Springbrook High School Floor 1 Room E10 | 0.5 |
| 2393695 | 3916228 | 11/13/2018 8:58 am 11/16/2018 7:57 am | Bldg Springbrook High School Flr 1 Rm Auditoriu | 0.7 |
| 2393696 | 3916229 | 11/13/2018 9:02 am 11/16/2018 7:59 am | Bldg Springbrook High School Floor 1 Room D10 | < 0.4 |
| 2393697 | 3916230 | 11/13/2018 9:02 am 11/16/2018 7:09 am | Bldg Springbrook High School Floor 1 Room D10 | < 0.4 |

Comment: Unable to report a result for 3918037. Device counts below blank counts. A copy of this report was emailed to Intertek-PSI (VA).

Distributed by: Intertek-PSI (VA)

Date Received: 11/17/2018 Date Logged: 11/17/2018 Date Analyzed: 11/18/2018 Date Reported: 01/02/2019

Report Reviewed By: 

Report Approved By: 

Shawn Price, Director of Laboratory Operations, AccuStar Labs

Disclaimer:

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NELAC NY 11769
NRPP 103216 AL
NRSB ARL0017

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

Laboratory Report for:

Property Tested: Project # 04481387-1

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

MCPS Radon Survey
Springbrook High School
MD 20904

| Log Number | Device Number | Test Exposure Duration: | | | | Area Tested | Result pCi/L |
|------------|---------------|-------------------------|---------|------------|---------|--|--------------|
| 2393698 | 3916231 | 11/13/2018 | 7:12 am | 11/16/2018 | 6:36 am | Bldg Springbrook High School Floor 1 Room B12 | < 0.4 |
| 2393699 | 3916232 | 11/13/2018 | 7:12 am | 11/16/2018 | 6:36 am | Bldg Springbrook High School Floor 1 Room B12 | < 0.4 |
| 2393700 | 3916233 | 11/13/2018 | 7:15 am | 11/16/2018 | 6:41 am | Bldg Springbrook High School Floor 1 Room B10 | < 0.4 |
| 2393701 | 3916234 | 11/13/2018 | 7:18 am | 11/16/2018 | 6:01 am | Bldg Springbrook High School Floor 1 Room B10 | < 0.4 |
| 2393702 | 3916235 | 11/13/2018 | 7:19 am | 11/16/2018 | 6:42 am | Bldg Springbrook High School Floor 1 Room B10 | < 0.4 |
| 2393703 | 3916236 | 11/13/2018 | 7:28 am | 11/16/2018 | 6:51 am | Bldg Springbrook High School Floor 1 Room B12 | < 0.4 |
| 2393704 | 3916237 | 11/13/2018 | 7:28 am | 11/16/2018 | 6:51 am | Bldg Springbrook High School Floor 1 Room B12 | < 0.4 |
| 2393705 | 3916238 | 11/13/2018 | 7:28 am | 11/16/2018 | 6:51 am | Bldg Springbrook High School Floor 1 Room B12 | Invalid |
| 2393706 | 3916239 | 11/13/2018 | 7:32 am | 11/16/2018 | 8:17 am | Bldg Springbrook High School Floor 1 Room A10 | < 0.4 |
| 2393707 | 3916240 | 11/13/2018 | 7:33 am | 11/16/2018 | 8:07 am | Bldg Springbrook High School Flr 1 Rm Attendan | < 0.4 |
| 2393708 | 3916242 | 11/13/2018 | 7:35 am | 11/16/2018 | 8:19 am | Bldg Springbrook High School Floor 1 Room A10 | < 0.4 |

Comment: Unable to report a result for 3918037. Device counts below blank counts. A copy of this report was emailed to Intertek-PSI (VA).

Distributed by: Intertek-PSI (VA)

Date Received: 11/17/2018 Date Logged: 11/17/2018 Date Analyzed: 11/18/2018 Date Reported: 01/02/2019

Report Reviewed By: 

Report Approved By: 

Shawn Price, Director of Laboratory Operations, AccuStar Labs

Disclaimer:

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NELAC NY 11769
NRPP 103216 AL
NRSB ARL0017

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

Laboratory Report for:

Property Tested: Project # 04481387-1

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

MCPS Radon Survey
Springbrook High School
MD 20904

| Log Number | Device Number | Test Exposure Duration: | Area Tested | Result pCi/L |
|------------|---------------|---------------------------------------|--|--------------|
| 2393709 | 3916243 | 11/13/2018 7:34 am 11/16/2018 8:09 am | Bldg Springbrook High School Floor 1 Room A11 | < 0.4 |
| 2393710 | 3916244 | 11/13/2018 7:35 am 11/16/2018 8:09 am | Bldg Springbrook High School Floor 1 Room A10 | < 0.4 |
| 2393711 | 3916245 | 11/13/2018 7:37 am 11/16/2018 8:20 am | Bldg Springbrook High School Floor 1 Room A10 | < 0.4 |
| 2393712 | 3916246 | 11/13/2018 7:37 am 11/16/2018 8:01 am | Bldg Springbrook High School Floor 1 Room A10 | < 0.4 |
| 2393713 | 3916247 | 11/13/2018 7:37 am 11/16/2018 8:22 am | Bldg Springbrook High School Floor 1 Room A10 | < 0.4 |
| 2393714 | 3916248 | 11/13/2018 7:37 am 11/16/2018 8:23 am | Bldg Springbrook High School Floor 1 Room A10 | 0.7 |
| 2393715 | 3916249 | 11/13/2018 7:40 am 11/16/2018 6:00 am | Bldg Springbrook High School Floor 1 Room A10 | < 0.4 |
| 2393716 | 3916250 | 11/13/2018 7:40 am 11/16/2018 8:25 am | Bldg Springbrook High School Floor 1 Room A10 | < 0.4 |
| 2393717 | 3916251 | 11/13/2018 8:06 am 11/16/2018 7:02 am | Bldg Springbrook High School Fir Lower Level R | < 0.4 |
| 2393718 | 3916252 | 11/13/2018 8:05 am 11/16/2018 7:02 am | Bldg Springbrook High School Fir Lower Level R | 1.7 |
| 2393719 | 3916253 | 11/13/2018 7:58 am 11/16/2018 7:03 am | Bldg Springbrook High School Floor 1 Room G10 | < 0.4 |

Comment: Unable to report a result for 3918037. Device counts below blank counts. A copy of this report was emailed to Intertek-PSI (VA).

Distributed by: Intertek-PSI (VA)

Date Received: 11/17/2018 Date Logged: 11/17/2018 Date Analyzed: 11/18/2018 Date Reported: 01/02/2019

Report Reviewed By: 

Report Approved By: 

Shawn Price, Director of Laboratory Operations, AccuStar Labs

Disclaimer:

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NELAC NY 11769
NRPP 103216 AL
NRSB ARL0017

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

Laboratory Report for:

Property Tested: Project # 04481387-1

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

MCPS Radon Survey
Springbrook High School
MD 20904

| Log Number | Device Number | Test Exposure Duration: | Area Tested | Result pCi/L |
|------------|---------------|---------------------------------------|---|--------------|
| 2393720 | 3916254 | 11/13/2018 8:05 am 11/16/2018 7:02 am | Bldg Springbrook High School Flr 1 Rm F113 Offi | 0.8 |
| 2393721 | 3916255 | 11/13/2018 7:56 am 11/16/2018 7:02 am | Bldg Springbrook High School Floor 1 Room G10 | 0.6 |
| 2393722 | 3916256 | 11/13/2018 8:03 am 11/16/2018 7:02 am | Bldg Springbrook High School Floor 1 Room F11 | 0.9 |
| 2393723 | 3916257 | 11/13/2018 8:04 am 11/16/2018 7:02 am | Bldg Springbrook High School Flr Lower Level R | 0.6 |
| 2393724 | 3916258 | 11/13/2018 8:03 am 11/16/2018 7:02 am | Bldg Springbrook High School Flr Lower Level R | < 0.4 |
| 2393725 | 3916260 | 11/13/2018 8:07 am 11/16/2018 7:02 am | Bldg Springbrook High School Flr Lower Level R | < 0.4 |
| 2393726 | 3916261 | 11/13/2018 6:58 am 11/16/2018 6:36 am | Bldg Springbrook High School Floor 1 Room B10 | < 0.4 |
| 2393727 | 3916262 | 11/13/2018 6:58 am 11/16/2018 6:36 am | Bldg Springbrook High School Floor 1 Room B10 | < 0.4 |
| 2393728 | 3916263 | 11/13/2018 6:09 am 11/16/2018 6:37 am | Bldg Springbrook High School Floor 1 Room B10 | < 0.4 |
| 2393729 | 3916264 | 11/13/2018 7:03 am 11/16/2018 6:27 am | Bldg Springbrook High School Floor 1 Room B10 | < 0.4 |
| 2393730 | 3916265 | 11/13/2018 7:03 am 11/16/2018 6:27 am | Bldg Springbrook High School Floor 1 Room B10 | < 0.4 |

Comment: Unable to report a result for 3918037. Device counts below blank counts. A copy of this report was emailed to Intertek-PSI (VA).

Distributed by: Intertek-PSI (VA)

Date Received: 11/17/2018 Date Logged: 11/17/2018 Date Analyzed: 11/18/2018 Date Reported: 01/02/2019

Report Reviewed By: 

Report Approved By: 

Shawn Price, Director of Laboratory Operations, AccuStar Labs

Disclaimer:

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NELAC NY 11769
NRPP 103216 AL
NRSB ARL0017

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

Laboratory Report for:

Property Tested: Project # 04481387-1

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

MCPS Radon Survey
Springbrook High School
MD 20904

| Log Number | Device Number | Test Exposure Duration: | | Area Tested | Result pCi/L |
|------------|---------------|-------------------------|--------------------|--|--------------|
| 2393731 | 3916266 | 11/13/2018 7:09 am | 11/16/2018 6:31 am | Bldg Springbrook High School Floor 1 Room B11 | < 0.4 |
| 2393732 | 3916267 | 11/13/2018 7:09 am | 11/16/2018 6:33 am | Bldg Springbrook High School Floor 1 Room B11 | < 0.4 |
| 2393733 | 3916268 | 11/13/2018 7:11 am | 11/16/2018 6:35 am | Bldg Springbrook High School Floor 1 Room B12 | < 0.4 |
| 2393734 | 3916269 | 11/13/2018 7:11 am | 11/16/2018 6:40 am | Bldg Springbrook High School Floor 1 Room B10 | < 0.4 |
| 2393735 | 3916270 | 11/13/2018 7:12 am | 11/16/2018 6:36 am | Bldg Springbrook High School Floor 1 Room B12 | < 0.4 |
| 2393736 | 3916609 | 11/13/2018 10:41 am | 11/16/2018 8:30 am | Bldg Springbrook High School Flr 1 Rm Coach's | 0.7 |
| 2393737 | 3916729 | 11/13/2018 9:43 am | 11/16/2018 8:27 am | Bldg Springbrook High School Flr 1 Rm Weight R | 0.5 |
| 2393738 | 3918013 | 11/13/2018 6:00 am | 11/16/2018 9:02 am | Bldg Springbrook High School | < 0.4 |
| 2393739 | 3918037 | 11/13/2018 6:44 am | 11/16/2018 9:02 am | Bldg Springbrook High School | Invalid |
| 2393740 | 3918046 | 11/13/2018 6:00 am | 11/16/2018 9:02 am | Bldg Springbrook High School | < 0.4 |
| 2393741 | 3918182 | 11/13/2018 6:44 am | 11/16/2018 9:02 am | Bldg Springbrook High School | < 0.4 |

Comment: Unable to report a result for 3918037. Device counts below blank counts. A copy of this report was emailed to Intertek-PSI (VA).

Distributed by: Intertek-PSI (VA)

Date Received: 11/17/2018 Date Logged: 11/17/2018 Date Analyzed: 11/18/2018 Date Reported: 01/02/2019

Report Reviewed By: 

Report Approved By: 

Shawn Price, Director of Laboratory Operations, AccuStar Labs

Disclaimer:

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NELAC NY 11769
NRPP 103216 AL
NRSB ARL0017

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

Laboratory Report for:

Property Tested: Project # 04481387-1

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

MCPS Radon Survey
Springbrook High School
Potomac MD 20904

| Log Number | Device Number | Test Date | Exposure Start | Exposure End | Duration | Area Tested | Result pCi/L |
|------------|---------------|------------|----------------|--------------|----------|---|--------------|
| 2393596 | 3916259 | 11/13/2018 | 8:16 am | 11/16/2018 | 7:06 pm | Not Indicated | 1.0 |
| 2393597 | 3916203 | 11/13/2018 | 10:59 am | 11/16/2018 | 7:42 am | Not Indicated | 0.5 |
| 2393598 | 3916001 | 11/13/2018 | 7:41 am | 11/16/2018 | 8:05 am | Bldg Springbrook High School Floor 1 Room A11 | < 0.4 |

Comment: AMENDED REPORT for 3916259 and 3916203 on 2/1/2019 to add dates and times. A copy of this report was emailed to Intertek-PSI (VA).

Distributed by: Intertek-PSI (VA)

Date Received: 11/17/2018 Date Logged: 11/17/2018 Date Analyzed: 11/18/2018 Date Reported: 01/15/2019

Report Reviewed By: 

Report Approved By: 

Shawn Price, Director of Laboratory Operations, AccuStar Labs

Disclaimer:

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NELAC NY 11769
NRPP 103216 AL
NRSB ARL0017

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

Laboratory Report for:

Property Tested: Project # 04481387-1

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

MCPS Radon Survey
Springbrook High School
Potomac MD 20904

| Log Number | Device Number | Test Exposure Duration: | Area Tested | Result pCi/L |
|------------|---------------|--|--|--------------|
| 2393074 | 3881159 | 11/13/2018 9:04 am 11/16/2018 7:08 am | Bldg Springbrook High School Floor 1 Room D10 | 0.8 |
| 2393075 | 3881162 | 11/13/2018 7:20 am 11/16/2018 6:37 am | Bldg Springbrook High School Floor 1 Room B11 | <0.4 |
| 2393076 | 3881169 | 11/13/2018 9:31 am 11/16/2018 8:21 am | Bldg Springbrook High School Floor 1 Room D11 | 2.0 |
| 2393077 | 3881172 | 11/13/2018 7:20 am 11/16/2018 6:57 am | Bldg Springbrook High School Floor 1 Room B11 | <0.4 |
| 2393078 | 3881179 | 11/13/2018 10:40 am 11/16/2018 8:14 am | Springbrook High School Flr Lower Level Rm Aux | 3.5 |
| 2393079 | 3881192 | 11/13/2018 9:33 am 11/16/2018 8:22 am | Bldg Springbrook High School Floor 1 Room D11 | 1.7 |
| 2393080 | 3881182 | 11/13/2018 9:01 am 11/16/2018 8:01 am | Bldg Springbrook High School Floor 1 Room D01 | 2.1 |
| 2393081 | 3881202 | 11/13/2018 9:25 am 11/16/2018 8:12 am | Bldg Springbrook High School Flr Lower Level R | 3.0 |
| 2393083 | 3881251 | 11/13/2018 9:01 am 11/16/2018 8:01 am | Bldg Springbrook High School Floor 1 Room D01 | 2.3 |
| 2393084 | 3881252 | 11/13/2018 10:40 am 11/16/2018 8:15 am | Bldg Springbrook High School Flr Lower Level R | 3.8 |

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

Distributed by: Intertek-PSI (VA)

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

Report Reviewed By: 

Report Approved By: 

Shawn Price, Director of Laboratory Operations, AccuStar Labs

Disclaimer:

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NELAC NY 11769
NRPP 103216 AL
NRSB ARL0017

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

Laboratory Report for:

Property Tested: Project # 04481387-1

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

MCPS Radon Survey
Springbrook High School
Potomac MD 20904

| Log Number | Device Number | Test Exposure Duration: | Area Tested | Result pCi/L |
|------------|---------------|--|---|--------------|
| 2393074 | 3881159 | 11/13/2018 9:04 am 11/16/2018 7:08 am | Springbrook High School Floor 1 Room D102 | 0.8 |
| 2393075 | 3881162 | 11/13/2018 7:20 am 11/16/2018 6:37 am | Springbrook High School Floor 1 Room B119 | <0.4 |
| 2393076 | 3881169 | 11/13/2018 9:31 am 11/16/2018 8:21 am | Springbrook High School Floor 1 Room D111 | 2.0 |
| 2393077 | 3881172 | 11/13/2018 7:20 am 11/16/2018 6:57 am | Springbrook High School Floor 1 Room B119 | <0.4 |
| 2393078 | 3881179 | 11/13/2018 10:40 am 11/16/2018 8:14 am | Springbrook High School Flr Lower Level Rm Aux | 3.5 |
| 2393079 | 3881192 | 11/13/2018 9:33 am 11/16/2018 8:22 am | Springbrook High School Floor 1 Room D111 | 1.7 |
| 2393080 | 3881182 | 11/13/2018 9:01 am 11/16/2018 8:01 am | Springbrook High School Floor 1 Room D014 | 2.1 |
| 2393081 | 3881202 | 11/13/2018 9:25 am 11/16/2018 8:12 am | Springbrook High School Flr Lower Level Rm Boy' | 3.0 |
| 2393083 | 3881251 | 11/13/2018 9:01 am 11/16/2018 8:01 am | Springbrook High School Floor 1 Room D014 | 2.3 |
| 2393084 | 3881252 | 11/13/2018 10:40 am 11/16/2018 8:15 am | Springbrook High School Flr Lower Level Rm Aux | 3.8 |

Comment: AMENDED REPORT 2/1/2019. A copy of this report was emailed to Intertek-PSI (VA).

Distributed by: Intertek-PSI (VA)

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

Report Reviewed By: 

Report Approved By: 

Shawn Price, Director of Laboratory Operations, AccuStar Labs

Disclaimer:

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

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

NRPP 105011 AL
NRSB ARL0007
Ohio RL41

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

Laboratory Report for:

Property Tested:

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

MCPS Radon Survey
4514 Taylorsville Road
Dayton OH 45424

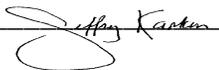
| Log Number | Device Number | Test Exposure Duration: | | | | Area Tested | Result pCi/L |
|------------|---------------|-------------------------|---------|------------|---------|-------------|--------------|
| 3204125 | 3926831 | 12/07/2018 | 9:47 am | 12/10/2018 | 9:47 am | Spike | 36.1 |
| 3204126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

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

Test Performed By: Unknown

Distributed by: Intertek-PSI (VA)

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

Report Reviewed By: 

Report Approved By: 

Disclaimer:

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

Shawn Price, Director of Laboratory Operations, AccuStar Labs

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

EXPOSURE IN BOWSER-MORNER RADON CHAMBER

CLIENT Intertek - PSI

Job Number 187732

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

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

Date Start: _____ Date Stop: _____

Time Start: 0947 Time Stop: 0947

Time Start: _____ Time Stop: _____

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

Device No.'s: _____

3926831 thru 3926840

G2 left

Date Start: _____ Date Stop: _____

Date Start: _____ Date Stop: _____

Time Start: _____ Time Stop: _____

Time Start: _____ Time Stop: _____

Device No.'s: _____

Device No.'s: _____

Date Start: _____ Date Stop: _____

Date Start: _____ Date Stop: _____

Time Start: _____ Time Stop: _____

Time Start: _____ Time Stop: _____

Device No.'s: _____

Device No.'s: _____

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



Chain of Custody

Project Name: MCPS Radon Survey 2018

Name of Schools:

- | | | |
|---------------------|----------------------|--------------------|
| 1. Highland View ES | 6. EB Lee MS | 11. Cannon Rd ES |
| 2. Kemp Mill ES | 7. Forest Knolls ES | 12. Cloverly ES |
| 3. Sligo Creek ES | 8. Galway ES | 13. Springbrook HS |
| 4. Highland ES | 9. Wheaton HS | |
| 5. Kennedy HS | 10. Briggs Chaney MS | |

| | Date | Initials |
|----------------------------------|--|----------|
| Radon Test Kits Deployed | 11/13/2018 | NL |
| Radon Test Kits Sampled | 11/16/2018 | NL |
| Radon Test Kits Shipped to Lab* | 11/16/2018 | NL |
| Radon Test Kits Received by Lab* | 11/17/2018; 11/18/2018; 11/20/2018 | NL |

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

RADON SCREENING SURVEY – FOLLOW-UP SPRINGBROOK HIGH SCHOOL

201 Valley Brook Dr., Silver Spring, Maryland 20904

EXECUTIVE SUMMARY

| | |
|--|---|
| Date of Test Report: | 3/14/18 |
| Round of Testing: | Initial Follow-up Post Remediation |
| # Rooms Tested | 76 |
| # Rooms \geq 4.0 pCi/L: | 7 |
| Low Value: | <0.3 |
| High Value: | 7.9 |
| Confirmed Rooms \geq 4.0 pCi/L US EPA Action Level | 1 (plus 6 locations to be evaluated by mitigation contractor) |

Summary of Sampling Events \geq 4.0 pCi/L

| Room | Result (pCi/L) 2/8/18 | Result (pCi/L) 3/14/18 | Average Result (pCi/L) |
|-------|--------------------------|---------------------------|---------------------------|
| G8 | 5.1 | 7.9 | 6.5 |
| G111 | 4.1 | 2.9 | 3.5 |
| D104 | Missing | 5.9 | ---* |
| D10 | Not Tested | 5.3 | ---* |
| D104F | 1.9 (Tampered) | 4.8 | ---* |
| D104E | Not Tested | 4.6 | ---* |
| G111A | Not Tested | 4.1 | ---* |
| C103H | Not Tested | 4.0 | ---* |
| | | | |

* -- To be evaluated by mitigation contractor



MCPS RADON TESTING - EXECUTIVE SUMMARY

| | |
|--------------------------|---|
| Site Name | Springbrook High School |
| Date of Report | March 14, 2018 |
| Round of Testing | Initial Follow-up Post Remediation 2 year testing 5 year testing HVAC Upgrade Window Replacement New Addition New Facility |
| # of Rooms Tested | 76 |
| # Rooms \geq 4.0 pCi/L | 7 |
| Lowest Value | <0.3 pCi/L |
| Highest Value | 7.9 pCi/L |

Project Status

Rooms with results \geq 4.0 pCi/L: G8 (7.9 pCi/L), D104 (5.9, 5.4 pCi/L), D10 (5.3 pCi/L), D104F (4.8 pCi/L), D104E (4.6 pCi/L), G111A (4.1 pCi/L), C103H (4.0 pCi/L)

Current Project Status at this time: Retesting completed; use the average of the initial and re-test results in a room to determine if remediation is necessary.

Retest required for D104, D10, D104F, D104E, G111A, C103H



March 14, 2018

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

Re: Radon Testing Services

KCI Job #1214634188

Location: Springbrook High School

201 Valley Brook Dr.
Silver Spring, Maryland 20904

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 Springbrook High School, located at 201 Valley Brook Dr. in Silver Spring, Maryland 20904 (subject site).

SCOPE OF SERVICES

KCI conducted radon testing at the subject site to evaluate indoor radon levels relative to the USEPA's recommended action level of 4.0 picocuries per Liter (pCi/L) - the level at which EPA recommends that schools take action to reduce the level. KCI conducted the radon testing in accordance with American Association of Radon Scientists and Technologists (AARST) *Protocol for Conducting Measurements of Radon and Radon Decay Products in Schools and Large Buildings*. A National Radon Safety Board (NRSB) Radon Measurement Specialist (certification #14SS056) supervised the testing. Additional information on radon management and the health effects of radon exposure is available from www.montgomerycountymd.gov/dep/air/radon or www.epa.gov/radon.

KCI visited the site on February 12, 2018 and deployed ninety-five (95) 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 not successfully tested,
2. Rooms with elevated November 2017 results (i.e. ≥ 3.5 pCi/L).

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 February 15, 2018 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 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 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 ranged from the mid-20s to upper 40s and high temperatures ranged from the high-30s to the high-60s. Maximum sustained winds ranged from 10-15 miles per hour. Average humidity was around 69%. 0.05 Inches of precipitation was recorded during the 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). The laboratory analytical results are included in Attachment C. Laboratory results and exposure data for the spike samples are also included in Attachment C.

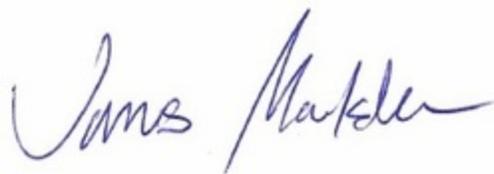
The results of the radon test analysis indicated the following:

| Radon Concentration | Room | Result |
|----------------------------|------------------|------------------|
| ≥4.0 pCi/L | G8 | 7.9 |
| ≥4.0 pCi/L | D104 | 5.9, 5.4 |
| ≥4.0 pCi/L | D10 | 5.3 |
| ≥4.0 pCi/L | D104F | 4.8 |
| ≥4.0 pCi/L | D104E | 4.6 |
| ≥4.0 pCi/L | G111A | 4.1 |
| ≥4.0 pCi/L | C103H | 4.0 |
| ≤4.0 pCi/L | See Attachment B | See Attachment B |

| Quality Control Samples | |
|--------------------------------|--|
| Results of Blank Canisters: | The field blanks, 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,



Radon Measurement Specialist
KCI Technologies, Inc.

Attachments:

B - Radon Test Summary Spreadsheets

C - Laboratory Analytical Results

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 | | |
|--|-------------------------------------|---------------|
| Springbrook High School | | |
| Test Period: 02/12/18-02/15/18 | | |
| Kit Number | Room / Area | Result |
| 7986079 | C103A (Piano storage room.) | 1.4 |
| 7985795 | A102 | 0.5 |
| 7194179 | A112 | 1.0 |
| 7978867 | A114 | 0.9 |
| 7985741 | B102B (Storage room) | < 0.3 |
| 7985773 | B102D | 0.6 |
| 7979396 | B105 | < 0.3 |
| 7979379 | B105A | < 0.3 |
| 7986048 | B110 | 0.6 |
| 7985746 | B117 | 0.8 |
| 7986080 | B119 | 1.0 |
| 7985774 | B119 | 0.6 |
| 7985754 | B120B | 0.5 |
| 7978874 | B122A | < 0.3 |
| 7978842 | B122B | < 0.3 |
| 7986071 | C101 | 1.1 |
| 7986074 | C101A | 0.9 |
| 7986075 | C101B | 0.8 |
| 7986078 | C101C | 1.2 |
| 7986055 | C101D | 0.8 |
| 7986095 | C101E | 0.9 |
| 7985738 | C101G | 1.1 |
| 7986058 | C101H | 0.9 |
| 7986057 | C101J | 1.1 |
| 7986022 | C101K | 1.2 |
| 7986063 | C101L | 1.7 |
| 7986064 | C101M | 2.1 |
| 7986065 | C101O | 1.0 |
| 7986072 | C101P | 0.9 |
| 7986096 | C101Q | 2.6 |
| 7986067 | C101R | 1.1 |
| 7986073 | C101S | 1.0 |
| 7985761 | C102B (Kitchen area of health room) | 1.1 |
| 7985724 | C102H | 1.3 |
| 7978891 | C103 | 1.9 |
| 7985745 | C103D | 2.6 |
| 7979078 | C103E | 3.4 |
| 7979391 | C103H | 4.0 |
| 7194175 | C310 | 1.2 |
| 7194176 | D1 | 1.7 |
| 7976000 | D1 | 2.9 |
| 7978894 | D10 | 5.3 |
| 7979063 | D102 | 1.6 |
| 7986088 | D104 | 5.4 |
| 7985776 | D104 | 5.9 |
| 7986087 | D104E (Weight room) | 4.6 |

Table Note:

* Missing or Compromised Sample

| Table 1 - Radon Testing Results | | |
|--|--------------------------------------|---------------|
| Springbrook High School | | |
| Test Period: 02/12/18-02/15/18 | | |
| Kit Number | Room / Area | Result |
| 7979059 | D104F | 4.8 |
| 7979397 | D107A | 1.8 |
| 7979033 | D107C | 2.3 |
| 7979381 | D108 | 1.1 |
| 7979073 | D108 PRACTICE RM | 1.5 |
| 7194154 | D11 | 3.4 |
| 7985701 | D111 | 2.9 |
| 7975999 | D4 | 2.8 |
| 7978889 | D7 | 3.3 |
| 7194161 | D9 | 2.8 |
| 7979394 | E106A | 0.8 |
| 7979057 | E108B | 0.7 |
| 7979058 | E109 | 0.7 |
| 7979400 | E111 | 0.8 |
| 7979066 | E116A | 2.8 |
| 7979081 | E117 | 1.0 |
| 7978896 | E308 | 0.9 |
| 7979389 | F106 | 1.8 |
| 7985739 | * F108 (Open Window, Humidifier on.) | 0.9 |
| 7985897 | F113 | 1.4 |
| 7979380 | F113A | 1.3 |
| 7978895 | F307 | < 0.3 |
| 7985777 | G101A | 2.3 |
| 7985726 | G105 | 1.2 |
| 7979076 | G106B | 1.2 |
| 7979393 | G107 | 0.7 |
| 7985775 | * G108 (Open Window) | 1.2 |
| 7985799 | G111 | 2.9 |
| 7979335 | G111A | 4.1 |
| 7985896 | G2 | 1.3 |
| 7985727 | G8 | 7.9 |
| 7979392 | KITCHEN | 0.7 |
| 7979079 | KITCHEN | 0.5 |
| 7985800 | STAGE | 1.7 |
| 7985796 | STAGE | 1.9 |

Table Note:

* Missing or Compromised Sample

| Table 2 - Radon Testing Results | | |
|--|------------------------|---------------|
| Springbrook High School | | |
| Test Period: 02/12/18-02/15/18 | | |
| Kit Number | QC Type | Result |
| 7978897 | D (A112) | 0.7 |
| 7986066 | D (C101) | 0.9 |
| 7978890 | D (D1) | 2.8 |
| 7979064 | D (D102) | 1.7 |
| 7979060 | D (D108) | 1.2 |
| 7979398 | D (E109) | < 0.3 |
| 7979075 | D (F108) | 1.1 |
| 7979395 | D (F113) | 1.2 |
| 7979399 | * D (G108:Open Window) | 1.0 |
| 7985798 | D (G111) | 2.7 |
| 7986056 | FB (C101A) | < 0.3 |
| 7979082 | FB (D102) | < 0.3 |
| 7985895 | FB (E109) | < 0.3 |
| 7985797 | FB (G111) | < 0.3 |

Table Note:

* Missing or Compromised Sample

ATTACHMENT C

Laboratory Analytical Results

Radon test result report for:

**SPRINGBROOK HIGH SCHOOL
MAIN**

| Kit # | Room Id | Started | Ended | pCi/L | Analyzed |
|---------|---------|-----------------------|-----------------------|-----------|------------|
| 7985795 | A102 | 2018-02-12 @ 2:00 pm | 2018-02-15 @ 9:00 am | 0.5 ± 0.3 | 2018-02-19 |
| 7194179 | A112 | 2018-02-12 @ 3:00 pm | 2018-02-15 @ 9:00 am | 1.0 ± 0.4 | 2018-02-19 |
| 7978897 | A112 | 2018-02-12 @ 4:00 pm | 2018-02-15 @ 9:00 am | 0.7 ± 0.3 | 2018-02-19 |
| 7978867 | A114 | 2018-02-12 @ 3:00 pm | 2018-02-15 @ 10:00 am | 0.9 ± 0.4 | 2018-02-19 |
| 7985741 | B102B | 2018-02-12 @ 1:00 pm | 2018-02-15 @ 10:00 am | < 0.3 | 2018-02-19 |
| 7985773 | B102D | 2018-02-12 @ 1:00 pm | 2018-02-15 @ 10:00 am | 0.6 ± 0.3 | 2018-02-19 |
| 7979396 | B105 | 2018-02-12 @ 1:00 pm | 2018-02-15 @ 10:00 am | < 0.3 | 2018-02-19 |
| 7979379 | B105A | 2018-02-12 @ 1:00 pm | 2018-02-15 @ 10:00 am | < 0.3 | 2018-02-19 |
| 7986048 | B110 | 2018-02-12 @ 12:00 pm | 2018-02-15 @ 12:00 pm | 0.6 ± 0.3 | 2018-02-19 |
| 7985746 | B117 | 2018-02-12 @ 2:00 pm | 2018-02-15 @ 10:00 am | 0.8 ± 0.4 | 2018-02-19 |
| 7986080 | B119 | 2018-02-12 @ 2:00 pm | 2018-02-15 @ 10:00 am | 1.0 ± 0.3 | 2018-02-19 |
| 7985774 | B119 | 2018-02-12 @ 2:00 pm | 2018-02-15 @ 10:00 am | 0.6 ± 0.3 | 2018-02-19 |
| 7985754 | B120B | 2018-02-12 @ 1:00 pm | 2018-02-15 @ 10:00 am | 0.5 ± 0.3 | 2018-02-19 |
| 7978874 | B122A | 2018-02-12 @ 3:00 pm | 2018-02-15 @ 9:00 am | < 0.3 | 2018-02-19 |
| 7978842 | B122B | 2018-02-12 @ 3:00 pm | 2018-02-15 @ 10:00 am | < 0.3 | 2018-02-19 |
| 7986071 | C101 | 2018-02-12 @ 10:00 am | 2018-02-15 @ 9:00 am | 1.1 ± 0.3 | 2018-02-19 |
| 7986066 | C101 | 2018-02-12 @ 10:00 am | 2018-02-15 @ 9:00 am | 0.9 ± 0.4 | 2018-02-19 |
| 7986056 | C101A | 2018-02-12 @ 10:00 am | 2018-02-15 @ 9:00 am | < 0.3 | 2018-02-19 |
| 7986074 | C101A | 2018-02-12 @ 10:00 am | 2018-02-15 @ 9:00 am | 0.9 ± 0.3 | 2018-02-19 |
| 7986075 | C101B | 2018-02-12 @ 10:00 am | 2018-02-15 @ 9:00 am | 0.8 ± 0.3 | 2018-02-19 |
| 7986078 | C101C | 2018-02-12 @ 10:00 am | 2018-02-15 @ 9:00 am | 1.2 ± 0.3 | 2018-02-19 |
| 7986055 | C101D | 2018-02-12 @ 10:00 am | 2018-02-15 @ 9:00 am | 0.8 ± 0.3 | 2018-02-19 |
| 7986095 | C101E | 2018-02-12 @ 10:00 am | 2018-02-15 @ 9:00 am | 0.9 ± 0.3 | 2018-02-19 |
| 7985738 | C101G | 2018-02-12 @ 10:00 am | 2018-02-15 @ 9:00 am | 1.1 ± 0.3 | 2018-02-19 |
| 7986058 | C101H | 2018-02-12 @ 10:00 am | 2018-02-15 @ 9:00 am | 0.9 ± 0.3 | 2018-02-19 |
| 7986057 | C101J | 2018-02-12 @ 10:00 am | 2018-02-15 @ 9:00 am | 1.1 ± 0.4 | 2018-02-19 |
| 7986022 | C101K | 2018-02-12 @ 10:00 am | 2018-02-15 @ 9:00 am | 1.2 ± 0.3 | 2018-02-19 |
| 7986063 | C101L | 2018-02-12 @ 10:00 am | 2018-02-15 @ 9:00 am | 1.7 ± 0.4 | 2018-02-19 |
| 7986064 | C101M | 2018-02-12 @ 10:00 am | 2018-02-15 @ 9:00 am | 2.1 ± 0.4 | 2018-02-19 |
| 7986065 | C101O | 2018-02-12 @ 10:00 am | 2018-02-15 @ 9:00 am | 1.0 ± 0.3 | 2018-02-19 |
| 7986072 | C101P | 2018-02-12 @ 10:00 am | 2018-02-15 @ 9:00 am | 0.9 ± 0.3 | 2018-02-19 |
| 7986096 | C101Q | 2018-02-12 @ 10:00 am | 2018-02-15 @ 9:00 am | 2.6 ± 0.4 | 2018-02-19 |
| 7986067 | C101R | 2018-02-12 @ 10:00 am | 2018-02-15 @ 9:00 am | 1.1 ± 0.3 | 2018-02-19 |
| 7986073 | C101S | 2018-02-12 @ 10:00 am | 2018-02-15 @ 9:00 am | 1.0 ± 0.3 | 2018-02-19 |
| 7985761 | C102B | 2018-02-12 @ 10:00 am | 2018-02-15 @ 9:00 am | 1.1 ± 0.3 | 2018-02-19 |
| 7985724 | C102H | 2018-02-12 @ 10:00 am | 2018-02-15 @ 9:00 am | 1.3 ± 0.3 | 2018-02-19 |
| 7978891 | C103 | 2018-02-12 @ 3:00 pm | 2018-02-15 @ 9:00 am | 1.9 ± 0.4 | 2018-02-19 |

Radon test result report for:

**SPRINGBROOK HIGH SCHOOL
MAIN**

| Kit # | Room Id | Started | Ended | pCi/L | Analyzed |
|---------|------------------|-----------------------|-----------------------|-----------|------------|
| 7986079 | C103A | 2018-02-12 @ 12:00 pm | 2018-02-15 @ 12:00 pm | 1.4 ± 0.3 | 2018-02-19 |
| 7985745 | C103D | 2018-02-12 @ 2:00 pm | 2018-02-15 @ 11:00 am | 2.6 ± 0.4 | 2018-02-19 |
| 7979078 | C103E | 2018-02-12 @ 2:00 pm | 2018-02-15 @ 11:00 am | 3.4 ± 0.5 | 2018-02-19 |
| 7979391 | C103H | 2018-02-12 @ 2:00 pm | 2018-02-15 @ 11:00 am | 4.0 ± 0.5 | 2018-02-19 |
| 7194175 | C310 | 2018-02-12 @ 3:00 pm | 2018-02-15 @ 10:00 am | 1.2 ± 0.4 | 2018-02-19 |
| 7194176 | D1 | 2018-02-12 @ 4:00 pm | 2018-02-15 @ 10:00 am | 1.7 ± 0.4 | 2018-02-19 |
| 7978890 | D1 | 2018-02-12 @ 4:00 pm | 2018-02-15 @ 10:00 am | 2.8 ± 0.4 | 2018-02-19 |
| 7976000 | D1 | 2018-02-12 @ 4:00 pm | 2018-02-15 @ 10:00 am | 2.9 ± 0.5 | 2018-02-19 |
| 7978894 | D10 | 2018-02-12 @ 4:00 pm | 2018-02-15 @ 10:00 am | 5.3 ± 0.5 | 2018-02-19 |
| 7979064 | D102 | 2018-02-12 @ 11:00 am | 2018-02-15 @ 9:00 am | 1.7 ± 0.3 | 2018-02-19 |
| 7979082 | D102 | 2018-02-12 @ 11:00 am | 2018-02-15 @ 9:00 am | < 0.3 | 2018-02-19 |
| 7979063 | D102 | 2018-02-12 @ 11:00 am | 2018-02-15 @ 9:00 am | 1.6 ± 0.4 | 2018-02-19 |
| 7986088 | D104 | 2018-02-12 @ 11:00 am | 2018-02-15 @ 9:00 am | 5.4 ± 0.5 | 2018-02-19 |
| 7985776 | D104 | 2018-02-12 @ 11:00 am | 2018-02-15 @ 9:00 am | 5.9 ± 0.5 | 2018-02-19 |
| 7986087 | D104E | 2018-02-12 @ 11:00 am | 2018-02-15 @ 9:00 am | 4.6 ± 0.5 | 2018-02-19 |
| 7979059 | D104F | 2018-02-12 @ 11:00 am | 2018-02-15 @ 9:00 am | 4.8 ± 0.5 | 2018-02-19 |
| 7979397 | D107A | 2018-02-12 @ 11:00 am | 2018-02-15 @ 9:00 am | 1.8 ± 0.4 | 2018-02-19 |
| 7979033 | D107C | 2018-02-12 @ 11:00 am | 2018-02-15 @ 9:00 am | 2.3 ± 0.4 | 2018-02-19 |
| 7979381 | D108 | 2018-02-12 @ 11:00 am | 2018-02-15 @ 9:00 am | 1.1 ± 0.3 | 2018-02-19 |
| 7979060 | D108 | 2018-02-12 @ 11:00 am | 2018-02-15 @ 9:00 am | 1.2 ± 0.3 | 2018-02-19 |
| 7979073 | D108 PRACTICE RM | 2018-02-12 @ 11:00 am | 2018-02-15 @ 9:00 am | 1.5 ± 0.3 | 2018-02-19 |
| 7194154 | D11 | 2018-02-12 @ 4:00 pm | 2018-02-15 @ 10:00 am | 3.4 ± 0.4 | 2018-02-19 |
| 7985701 | D111 | 2018-02-12 @ 11:00 am | 2018-02-15 @ 11:00 am | 2.9 ± 0.4 | 2018-02-19 |
| 7975999 | D4 | 2018-02-12 @ 12:00 pm | 2018-02-15 @ 12:00 pm | 2.8 ± 0.4 | 2018-02-19 |
| 7978889 | D7 | 2018-02-12 @ 4:00 pm | 2018-02-15 @ 11:00 am | 3.3 ± 0.4 | 2018-02-19 |
| 7194161 | D9 | 2018-02-12 @ 4:00 pm | 2018-02-15 @ 10:00 am | 2.8 ± 0.5 | 2018-02-19 |
| 7979394 | E106A | 2018-02-12 @ 12:00 pm | 2018-02-15 @ 9:00 am | 0.8 ± 0.3 | 2018-02-19 |
| 7979057 | E108B | 2018-02-12 @ 12:00 pm | 2018-02-15 @ 9:00 am | 0.7 ± 0.4 | 2018-02-19 |
| 7979058 | E109 | 2018-02-12 @ 12:00 pm | 2018-02-15 @ 9:00 am | 0.7 ± 0.3 | 2018-02-19 |
| 7985895 | E109 | 2018-02-12 @ 12:00 pm | 2018-02-15 @ 9:00 am | < 0.3 | 2018-02-19 |
| 7979398 | E109 | 2018-02-12 @ 12:00 pm | 2018-02-15 @ 9:00 am | < 0.3 | 2018-02-19 |
| 7979400 | E111 | 2018-02-12 @ 12:00 pm | 2018-02-15 @ 9:00 am | 0.8 ± 0.3 | 2018-02-19 |
| 7979066 | E116A | 2018-02-12 @ 12:00 pm | 2018-02-15 @ 9:00 am | 2.8 ± 0.4 | 2018-02-19 |
| 7979081 | E117 | 2018-02-12 @ 12:00 pm | 2018-02-15 @ 9:00 am | 1.0 ± 0.3 | 2018-02-19 |
| 7978896 | E308 | 2018-02-12 @ 3:00 pm | 2018-02-15 @ 10:00 am | 0.9 ± 0.4 | 2018-02-19 |
| 7979389 | F106 | 2018-02-12 @ 12:00 pm | 2018-02-15 @ 10:00 am | 1.8 ± 0.4 | 2018-02-19 |
| 7985739 | F108 | 2018-02-12 @ 12:00 pm | 2018-02-15 @ 9:00 am | 0.9 ± 0.3 | 2018-02-19 |

Radon test result report for:
SPRINGBROOK HIGH SCHOOL
MAIN

| Kit # | Room Id | Started | Ended | pCi/L | Analyzed |
|---------|---------|-----------------------|-----------------------|-----------|------------|
| 7979075 | F108 | 2018-02-12 @ 12:00 pm | 2018-02-15 @ 9:00 am | 1.1 ± 0.4 | 2018-02-19 |
| 7985897 | F113 | 2018-02-12 @ 12:00 pm | 2018-02-15 @ 9:00 am | 1.4 ± 0.4 | 2018-02-19 |
| 7979395 | F113 | 2018-02-12 @ 12:00 pm | 2018-02-15 @ 9:00 am | 1.2 ± 0.4 | 2018-02-19 |
| 7979380 | F113A | 2018-02-12 @ 12:00 pm | 2018-02-15 @ 9:00 am | 1.3 ± 0.4 | 2018-02-19 |
| 7978895 | F307 | 2018-02-12 @ 3:00 pm | 2018-02-15 @ 10:00 am | < 0.3 | 2018-02-19 |
| 7985777 | G101A | 2018-02-12 @ 12:00 pm | 2018-02-15 @ 9:00 am | 2.3 ± 0.4 | 2018-02-19 |
| 7985726 | G105 | 2018-02-12 @ 1:00 pm | 2018-02-15 @ 9:00 am | 1.2 ± 0.4 | 2018-02-19 |
| 7979076 | G106B | 2018-02-12 @ 12:00 pm | 2018-02-15 @ 9:00 am | 1.2 ± 0.4 | 2018-02-19 |
| 7979393 | G107 | 2018-02-12 @ 1:00 pm | 2018-02-15 @ 9:00 am | 0.7 ± 0.3 | 2018-02-19 |
| 7979399 | G108 | 2018-02-12 @ 1:00 pm | 2018-02-15 @ 9:00 am | 1.0 ± 0.3 | 2018-02-19 |
| 7985775 | G108 | 2018-02-12 @ 1:00 pm | 2018-02-15 @ 9:00 am | 1.2 ± 0.4 | 2018-02-19 |
| 7985798 | G111 | 2018-02-12 @ 1:00 pm | 2018-02-15 @ 9:00 am | 2.7 ± 0.4 | 2018-02-19 |
| 7985799 | G111 | 2018-02-12 @ 1:00 pm | 2018-02-15 @ 9:00 am | 2.9 ± 0.4 | 2018-02-19 |
| 7985797 | G111 | 2018-02-12 @ 1:00 pm | 2018-02-15 @ 9:00 am | < 0.3 | 2018-02-19 |
| 7979335 | G111A | 2018-02-12 @ 2:00 pm | 2018-02-15 @ 11:00 am | 4.1 ± 0.5 | 2018-02-19 |
| 7985896 | G2 | 2018-02-12 @ 2:00 pm | 2018-02-15 @ 10:00 am | 1.3 ± 0.3 | 2018-02-19 |
| 7985727 | G8 | 2018-02-12 @ 2:00 pm | 2018-02-15 @ 10:00 am | 7.9 ± 0.6 | 2018-02-19 |
| 7979079 | KITCHEN | 2018-02-12 @ 1:00 pm | 2018-02-15 @ 10:00 am | 0.5 ± 0.4 | 2018-02-19 |
| 7979392 | KITCHEN | 2018-02-12 @ 1:00 pm | 2018-02-15 @ 10:00 am | 0.7 ± 0.3 | 2018-02-19 |
| 7985800 | STAGE | 2018-02-12 @ 2:00 pm | 2018-02-15 @ 11:00 am | 1.7 ± 0.4 | 2018-02-19 |
| 7985796 | STAGE | 2018-02-12 @ 2:00 pm | 2018-02-15 @ 11:00 am | 1.9 ± 0.4 | 2018-02-19 |



Radon Test Kit Chain of Custody

Project Name: MCPS Radon

Names of Schools:

1. Highland Elementary School
2. Stephen Knolls Elementary School
3. Silver Creek Middle School
4. Woodlin Elementary School
5. Sligo Creek Elementary School
6. Francis Scott Key Middle School
7. John T. Baker Middle School
8. Cedar Grove Elementary School
9. Clarksburg Elementary School
10. Clarksburg Elementary School Annex
11. Fields Road Elementary School
12. Dufief Elementary School
13. Brown Station Elementary School
14. Diamond Elementary School
15. Fallsmeade Elementary School
16. Thomas Whootton High School
17. Lake Seneca Elementary School
18. Redland Middle School
19. Newport Mill Middle School
20. Bethesda Trans. and Maint. Depot
21. Sequoyah Elementary School
22. Gaithersburg Middle School
23. Wayside Elementary School
24. Travilah Elementary School
25. Damascus High School
26. Jones Lane Elementary School
27. Greencastle Elementary School
28. Spring Brook High School
29. Montgomery Blair High School
30. Watkins Mill High School

| | Date | Initials |
|----------------------------------|---------|----------|
| Radon Test Kits Deployed | 2/12/18 | JM |
| Radon Test Kits Collected | 2/15/18 | JM |
| Radon Test Kits Shipped to Lab* | 2/15/18 | JM |
| Radon Test Kits Received by Lab* | 2/19/15 | JM |

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

Radon test result report for:
OFFICE BLANKS

| Kit # | Room Id | Started | Ended | pCi/L | Analyzed |
|--------------|----------------|----------------------|----------------------|--------------|-----------------|
| 7979482 | 1 | 2018-02-13 @ 1:00 pm | 2018-02-16 @ 2:00 pm | < 0.3 | 2018-02-20 |
| 7986991 | 10 | 2018-02-13 @ 2:00 pm | 2018-02-16 @ 2:00 pm | < 0.3 | 2018-02-20 |
| 7985684 | 11 | 2018-02-13 @ 2:00 pm | 2018-02-16 @ 2:00 pm | < 0.3 | 2018-02-20 |
| 7986987 | 12 | 2018-02-13 @ 2:00 pm | 2018-02-16 @ 2:00 pm | < 0.3 | 2018-02-20 |
| 7986993 | 13 | 2018-02-13 @ 2:00 pm | 2018-02-16 @ 2:00 pm | < 0.3 | 2018-02-20 |
| 7986990 | 14 | 2018-02-13 @ 2:00 pm | 2018-02-16 @ 2:00 pm | < 0.3 | 2018-02-20 |
| 7979485 | 2 | 2018-02-13 @ 1:00 pm | 2018-02-16 @ 2:00 pm | < 0.3 | 2018-02-20 |
| 7985686 | 3 | 2018-02-13 @ 1:00 pm | 2018-02-16 @ 2:00 pm | < 0.3 | 2018-02-20 |
| 7986995 | 4 | 2018-02-13 @ 1:00 pm | 2018-02-16 @ 2:00 pm | < 0.3 | 2018-02-20 |
| 7986989 | 5 | 2018-02-13 @ 1:00 pm | 2018-02-16 @ 2:00 pm | < 0.3 | 2018-02-20 |
| 7986998 | 6 | 2018-02-13 @ 2:00 pm | 2018-02-16 @ 2:00 pm | < 0.3 | 2018-02-20 |
| 7986986 | 7 | 2018-02-13 @ 2:00 pm | 2018-02-16 @ 2:00 pm | < 0.3 | 2018-02-20 |
| 7986985 | 8 | 2018-02-13 @ 2:00 pm | 2018-02-16 @ 2:00 pm | < 0.3 | 2018-02-20 |
| 7986997 | 9 | 2018-02-13 @ 2:00 pm | 2018-02-16 @ 2:00 pm | < 0.3 | 2018-02-20 |

Radon test result report for:
TRANSIT BLANKS

| Kit # | Room Id | Started | Ended | pCi/L | Analyzed |
|--------------|----------------|----------------------|----------------------|--------------|-----------------|
| 7984188 | 1 | 2018-02-13 @ 2:00 pm | 2018-02-16 @ 2:00 pm | < 0.3 | 2018-02-20 |
| 7984044 | 10 | 2018-02-13 @ 2:00 pm | 2018-02-16 @ 2:00 pm | < 0.3 | 2018-02-20 |
| 7986582 | 11 | 2018-02-13 @ 2:00 pm | 2018-02-16 @ 2:00 pm | < 0.3 | 2018-02-20 |
| 7986999 | 12 | 2018-02-13 @ 2:00 pm | 2018-02-16 @ 2:00 pm | < 0.3 | 2018-02-20 |
| 7987000 | 13 | 2018-02-13 @ 2:00 pm | 2018-02-16 @ 2:00 pm | < 0.3 | 2018-02-20 |
| 7984196 | 14 | 2018-02-13 @ 2:00 pm | 2018-02-16 @ 2:00 pm | < 0.3 | 2018-02-20 |
| 7986996 | 2 | 2018-02-13 @ 2:00 pm | 2018-02-16 @ 2:00 pm | < 0.3 | 2018-02-20 |
| 7986994 | 3 | 2018-02-13 @ 2:00 pm | 2018-02-16 @ 2:00 pm | < 0.3 | 2018-02-20 |
| 7986992 | 4 | 2018-02-13 @ 2:00 pm | 2018-02-16 @ 2:00 pm | < 0.3 | 2018-02-20 |
| 7985680 | 5 | 2018-02-13 @ 2:00 pm | 2018-02-16 @ 2:00 pm | < 0.3 | 2018-02-20 |
| 7985698 | 6 | 2018-02-13 @ 2:00 pm | 2018-02-16 @ 2:00 pm | < 0.3 | 2018-02-20 |
| 7985699 | 7 | 2018-02-13 @ 2:00 pm | 2018-02-16 @ 2:00 pm | < 0.3 | 2018-02-20 |
| 7985700 | 8 | 2018-02-13 @ 2:00 pm | 2018-02-16 @ 2:00 pm | < 0.3 | 2018-02-20 |
| 7985872 | 9 | 2018-02-13 @ 2:00 pm | 2018-02-16 @ 2:00 pm | < 0.3 | 2018-02-20 |

February 28, 2018

**** LABORATORY ANALYSIS REPORT ****

Radon test result report for:

MCPS - Spike Sample Laboratory Results. Measured values are satisfactory, i.e. within $\pm 25\%$ of the chamber's reference value (20.9 pCi/L).

| Kit # | Room Id | Started | Ended | pCi/L | Analyzed |
|--------------|----------------|-----------------------|-----------------------|----------------|-----------------|
| 7984181 | 1 | 2018-02-16 @ 11:00 am | 2018-02-19 @ 11:00 am | 19.7 \pm 0.8 | 2018-02-21 |
| 7986621 | 2 | 2018-02-16 @ 11:00 am | 2018-02-19 @ 11:00 am | 19.4 \pm 0.8 | 2018-02-21 |
| 7985683 | 3 | 2018-02-16 @ 11:00 am | 2018-02-19 @ 11:00 am | 19.5 \pm 0.8 | 2018-02-21 |
| 7984168 | 4 | 2018-02-16 @ 11:00 am | 2018-02-19 @ 11:00 am | 20.5 \pm 0.8 | 2018-02-21 |
| 7986618 | 5 | 2018-02-16 @ 11:00 am | 2018-02-19 @ 11:00 am | 19.9 \pm 0.8 | 2018-02-21 |
| 7984169 | 6 | 2018-02-16 @ 11:00 am | 2018-02-19 @ 11:00 am | 20.4 \pm 0.8 | 2018-02-21 |

Air Chek, Inc. 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 183530

NOMINAL Conditions: Radon Conc 20.9 pCi/L Rel. Hum 49.8 % Temp. 79.1 F

Date Start: 2/16/18 Date Stop: 2/19/18 Date Start: _____ Date Stop: _____
Time Start: 1052 Time Stop: 1052 Time Start: _____ Time Stop: _____
Device No.'s: (6) Char. Bags Device No.'s: _____
7984181, 7986621, 7985683 _____
7984168, 7986618, 7984169 _____
G3 Middle

Date Start: _____ Date Stop: _____ Date Start: _____ Date Stop: _____
Time Start: _____ Time Stop: _____ Time Start: _____ Time Stop: _____
Device No.'s: _____ Device No.'s: _____

Date Start: _____ Date Stop: _____ Date Start: _____ Date Stop: _____
Time Start: _____ Time Stop: _____ Time Start: _____ Time Stop: _____
Device No.'s: _____ Device No.'s: _____

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



MCPS RADON TESTING - EXECUTIVE SUMMARY

| | |
|--------------------------|---|
| Site Name | Springbrook High School |
| Date of Report | February 8, 2018 |
| Round of Testing | Initial Follow-up Post Remediation 2 year testing 5 year testing HVAC Upgrade Window Replacement New Addition New Facility |
| # of Rooms Tested | 105 |
| # Rooms ≥ 4.0 pCi/L | 2 |
| Lowest Value | < 0.3 pCi/L |
| Highest Value | 5.1 pCi/L |

Rooms with results ≥ 4.0 pCi/L:

G8 (5.1 pCi/L), G111, (4.1 pCi/L)

Current Project Status at this time: Testing Completed; retesting needed for results ≥ 4.0 pCi/L.

Missing or compromised samples need re-test.



February 8, 2018

Mr. Richard Cox, MS
Team Leader
Montgomery County Public Schools
Division of Maintenance
Rockville, Maryland 20855

Re: Radon Testing Services

KCI Job #1214694182

Location: Springbrook High School

201 Valleybrook Dr.
Silver Spring, Maryland 20904

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 Springbrook High School, located at 201 Valleybrook Dr. in Silver Spring, Maryland 20904 (subject site).

SCOPE OF SERVICES

KCI conducted radon testing at the subject site to evaluate indoor radon levels relative to the USEPA's recommended action level of 4.0 picocuries per Liter (pCi/L) - the level at which EPA recommends that schools take action to reduce the level. KCI conducted the radon testing in accordance with American Association of Radon Scientists and Technologists (AARST) *Protocol for Conducting Measurements of Radon and Radon Decay Products in Schools and Large Buildings*. A National Radon Safety Board (NRSB) Radon Measurement Specialist (certification #14SS056) supervised the testing. Additional information on radon management and the health effects of radon exposure is available from www.montgomerycountymd.gov/dep/air/radon or www.epa.gov/radon.

KCI visited the site on November 28, 2017 and deployed one-hundred-twenty-eight (128) 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.

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 December 1, 2017 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:

- 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 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 30s and high temperatures ranged from the low-50s to mid-60s. Maximum sustained winds ranged from 8-15 miles per hour. Average humidity was around 65%. 0.02 Inches of precipitation was recorded during the testing period.

A magnitude 4.1 earthquake was reported on Thursday, November 30 near Dover, Delaware approximately 95 miles east of Gaithersburg, Maryland. The earthquake occurred during or just after the radon testing period for this facility. In general, enhanced radon emissions have been observed prior to earthquakes and this has been recorded all over the world, according to the research article entitled *Radon-222: A Potential Short-Term Earthquake Precursor*, published June 30, 2015 in the Journal of Earth Science and Climate

Change. The nearby earthquake, which occurred during or prior to the testing period, may have resulted in higher-than-normal radon test results for this facility.

RESULTS

The sampling locations, field observations, and analytical results are listed on Table 1 (Attachment B). The quality control sample locations and analytical results are listed on Table 2 (Appendix B). Missing/compromised tests, missed rooms, and locked rooms are listed on Table 3 (Appendix 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 | G8 | 5.1 |
| ≥4.0 pCi/L | G111 | 4.1 |
| ≤4.0 pCi/L | See Attachment B | See Attachment B |

| Quality Control Samples | |
|--------------------------------|--|
| Results of Blank Canisters: | The field blanks, 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,



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

Attachments:

B - Tables 1-3, Radon Test Summary Spreadsheets

C- Laboratory Analytical Results

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

| Radon Testing Results | | |
|---------------------------------------|----------------------|---------------|
| Springbrook High School | | |
| Test Period: 11/28/17-12/01/17 | | |
| Kit Number | Room / Area | Result |
| 7978432 | A101 | 0.8 |
| 7978433 | * A102 (Tampered) | 0.6 |
| 7978434 | A103 | < 0.3 |
| 7978435 | A104 | 0.8 |
| 7978436 | A105 | 0.6 |
| 7978437 | A106 | 0.7 |
| 7978438 | A108 | 0.8 |
| 7978439 | A109 | 0.8 |
| 7978440 | A110 | 0.8 |
| 7978441 | A111 | 0.8 |
| 7978442 | * A114 (Tampered) | 0.7 |
| 7978416 | B101 | 0.8 |
| 7978415 | B102 | 1.1 |
| 7978413 | * B102D (Tampered) | < 0.3 |
| 7978412 | B103 | 0.9 |
| 7978410 | B104 | 0.7 |
| 7978411 | B104C | 1.8 |
| 7978408 | * B105 (Missing) | - |
| 7978409 | B105B | 0.7 |
| 7978402 | B106 | < 0.3 |
| 7978406 | B106C | 0.9 |
| 7978407 | B106D | < 0.3 |
| 7978404 | B107 | 0.7 |
| 7978418 | B108 | 0.7 |
| 7978420 | B108C | < 0.3 |
| 7978421 | B109 | 0.8 |
| 7978424 | B109A | 0.5 |
| 7978422 | B109B | < 0.3 |
| 7978425 | B118 | 0.6 |
| 7978429 | B121 | 1.2 |
| 7978430 | B122 | < 0.3 |
| 7978431 | B122 OFFICE | < 0.3 |
| 7978401 | BLDG SERVICES | 0.8 |
| 7978466 | C102 | 1.0 |
| 7978467 | C102A | 0.7 |
| 7978468 | C102D | 1.1 |
| 7978469 | C102G | 1.4 |
| 7978473 | * C102H (Missing) | - |
| 7978465 | C103 | 1.3 |
| 7978464 | * C103 (Tampered) | 0.9 |
| 7978499 | * C310 (Open Window) | 1.1 |
| 7978427 | CAFETERIA | 1.0 |
| 7978428 | CAFETERIA | 0.7 |
| 7978461 | * D102 (Tampered) | 1.1 |
| 7978463 | D103 | 1.5 |
| 7978444 | * D104 (Missing) | - |

Table Note:

* Missing or Compromised Sample

| Radon Testing Results | | |
|--------------------------------|--------------------------------|--------|
| Springbrook High School | | |
| Test Period: 11/28/17-12/01/17 | | |
| Kit Number | Room / Area | Result |
| 7978443 | * D104 (Missing) | - |
| 7978445 | * D104F (Tampered) | 1.9 |
| 7978457 | D107 | 0.9 |
| 7978460 | * D107A (Tampered) | 0.5 |
| 7978459 | D107B | 1.1 |
| 7978458 | * D107C (Missing) | - |
| 7978455 | D107E | 1.0 |
| 7978454 | D107F | 0.6 |
| 7978462 | D107G | 0.9 |
| 7978451 | * D108 (Open Door) | 0.5 |
| 7978450 | * D108 PRACTICE RM (Tampered) | 0.8 |
| 7978453 | D108A | 0.8 |
| 7978448 | D108H | 0.8 |
| 7978452 | D108J | 0.6 |
| 7978447 | D120 | 2.2 |
| 7978478 | E105 | 0.9 |
| 7978477 | E106 | 0.7 |
| 7978476 | E107 | 0.6 |
| 7976218 | E108 | 0.7 |
| 7976249 | * E108B (Tampered) | 0.9 |
| 7978475 | * E109 (Tampered) | 0.6 |
| 7978472 | E110 | 0.7 |
| 7976219 | E113 | 0.9 |
| 7978470 | E114 | < 0.3 |
| 7976300 | E115 | 0.6 |
| 7978471 | E116 | 1.4 |
| 7976204 | * E117 (Open Window) | 0.6 |
| 7976227 | E118 | 0.9 |
| 7978486 | E206 | < 0.3 |
| 7978485 | E211 | 0.6 |
| 7978488 | * E308 (Missing) | - |
| 7978480 | E314 | < 0.3 |
| 7978487 | E319 | < 0.3 |
| 7976289 | F101 | < 0.3 |
| 7976213 | F102 | < 0.3 |
| 7976221 | F103 | 0.9 |
| 7976206 | F104 | 1.0 |
| 7976235 | F105 | 0.6 |
| 7976211 | * F106 (Tampered) | 1.6 |
| 7976234 | F107 | 0.6 |
| 7976208 | * F108 (Open Window, Tampered) | 1.5 |
| 7976229 | F109 | 0.8 |
| 7976207 | * F112 (Tampered) | 0.8 |
| 7976203 | * F113 (Open Window) | 0.8 |
| 7978483 | F201 | 0.8 |
| 7978490 | F202 | 0.6 |
| 7978489 | F210 | 0.5 |
| 7978496 | F302 | 0.7 |
| 7978481 | * F307 (Tampered) | < 0.3 |
| 7978492 | G1 | 1.5 |

Table Note:

* Missing or Compromised Sample

| Radon Testing Results | | |
|---------------------------------------|--------------------|---------------|
| Springbrook High School | | |
| Test Period: 11/28/17-12/01/17 | | |
| Kit Number | Room / Area | Result |
| 7976246 | G101 | 2.0 |
| 7976202 | * G105 (Tampered) | 0.9 |
| 7976223 | G106A | 0.7 |
| 7976201 | * G107 (Tampered) | 0.8 |
| 7976209 | * G108 (Tampered) | 1.0 |
| 7976216 | G109 | 1.2 |
| 7978497 | G11 | 0.9 |
| 7976212 | G110 | 1.6 |
| 7976222 | G110B | 1.4 |
| 7976210 | G111 | 4.1 |
| 7978498 | G12 | 0.9 |
| 7978491 | G8 | 5.1 |
| 7978446 | WEIGHT ROOM | 2.8 |

Table Note:

* Missing or Compromised Sample

| Radon Testing Results | | |
|---------------------------------------|----------------------|---------------|
| Springbrook High School | | |
| Test Period: 11/28/17-12/01/17 | | |
| Kit Number | QC Type | Result |
| 7978417 | D (B101) | 0.8 |
| 7978414 | * D (B102D:Tampered) | 0.6 |
| 7978403 | D (B107) | 1.0 |
| 7978419 | D (B108) | 0.7 |
| 7978423 | D (B109B) | < 0.3 |
| 7978456 | D (D107) | 0.8 |
| 7978449 | D (D108H) | 0.9 |
| 7978474 | D (E113) | < 0.3 |
| 7978484 | D (E211) | < 0.3 |
| 7976205 | D (F104) | 1.1 |
| 7976217 | D (F105) | 0.8 |
| 7978482 | * D (F307:Tampered) | < 0.3 |
| 7978405 | FB (B106) | < 0.3 |
| 7978426 | * FB (B118:Tampered) | < 0.3 |
| 7978479 | FB (E105) | < 0.3 |
| 7976215 | FB (E108) | < 0.3 |
| 7976220 | FB (G110) | < 0.3 |
| 7975551 | OB (OB) | < 0.3 |
| 7975556 | OB (OB) | < 0.3 |

Table Note:

* Missing or Compromised Sample

ATTACHMENT C

Laboratory Analytical Results

Radon test result report for:

SPRINGBROOK HS**1**

| Kit # | Room Id | Started | Ended | pCi/L | Analyzed |
|---------|---------|-----------------------|-----------------------|-----------|------------|
| 7978432 | A101 | 2017-11-28 @ 1:00 pm | 2017-12-01 @ 11:00 am | 0.8 ± 0.3 | 2017-12-04 |
| 7978433 | A102 | 2017-11-28 @ 1:00 pm | 2017-12-01 @ 11:00 am | 0.6 ± 0.3 | 2017-12-05 |
| 7978434 | A103 | 2017-11-28 @ 1:00 pm | 2017-12-01 @ 11:00 am | < 0.3 | 2017-12-04 |
| 7978435 | A104 | 2017-11-28 @ 1:00 pm | 2017-12-01 @ 11:00 am | 0.8 ± 0.3 | 2017-12-04 |
| 7978436 | A105 | 2017-11-28 @ 1:00 pm | 2017-12-01 @ 11:00 am | 0.6 ± 0.3 | 2017-12-04 |
| 7978437 | A106 | 2017-11-28 @ 1:00 pm | 2017-12-01 @ 11:00 am | 0.7 ± 0.3 | 2017-12-05 |
| 7978438 | A108 | 2017-11-28 @ 1:00 pm | 2017-12-01 @ 11:00 am | 0.8 ± 0.3 | 2017-12-04 |
| 7978439 | A109 | 2017-11-28 @ 1:00 pm | 2017-12-01 @ 11:00 am | 0.8 ± 0.2 | 2017-12-04 |
| 7978440 | A110 | 2017-11-28 @ 1:00 pm | 2017-12-01 @ 11:00 am | 0.8 ± 0.3 | 2017-12-04 |
| 7978441 | A111 | 2017-11-28 @ 1:00 pm | 2017-12-01 @ 11:00 am | 0.8 ± 0.3 | 2017-12-04 |
| 7978442 | A114 | 2017-11-28 @ 1:00 pm | 2017-12-01 @ 11:00 am | 0.7 ± 0.3 | 2017-12-04 |
| 7978417 | B101 | 2017-11-28 @ 12:00 pm | 2017-12-01 @ 10:00 am | 0.8 ± 0.3 | 2017-12-04 |
| 7978416 | B101 | 2017-11-28 @ 12:00 pm | 2017-12-01 @ 10:00 am | 0.8 ± 0.3 | 2017-12-04 |
| 7978415 | B102 | 2017-11-28 @ 12:00 pm | 2017-12-01 @ 10:00 am | 1.1 ± 0.3 | 2017-12-05 |
| 7978413 | B102D | 2017-11-28 @ 12:00 pm | 2017-12-01 @ 10:00 am | < 0.3 | 2017-12-04 |
| 7978414 | B102D | 2017-11-28 @ 12:00 pm | 2017-12-01 @ 10:00 am | 0.6 ± 0.2 | 2017-12-04 |
| 7978412 | B103 | 2017-11-28 @ 12:00 pm | 2017-12-01 @ 10:00 am | 0.9 ± 0.3 | 2017-12-04 |
| 7978410 | B104 | 2017-11-28 @ 12:00 pm | 2017-12-01 @ 9:00 am | 0.7 ± 0.3 | 2017-12-04 |
| 7978411 | B104C | 2017-11-28 @ 12:00 pm | 2017-12-01 @ 9:00 am | 1.8 ± 0.3 | 2017-12-04 |
| 7978409 | B105B | 2017-11-28 @ 12:00 pm | 2017-12-01 @ 9:00 am | 0.7 ± 0.3 | 2017-12-04 |
| 7978402 | B106 | 2017-11-28 @ 11:00 am | 2017-12-01 @ 9:00 am | < 0.3 | 2017-12-04 |
| 7978405 | B106 | 2017-11-28 @ 11:00 am | 2017-12-01 @ 9:00 am | < 0.3 | 2017-12-04 |
| 7978406 | B106C | 2017-11-28 @ 11:00 am | 2017-12-01 @ 9:00 am | 0.9 ± 0.3 | 2017-12-04 |
| 7978407 | B106D | 2017-11-28 @ 12:00 pm | 2017-12-01 @ 9:00 am | < 0.3 | 2017-12-04 |
| 7978403 | B107 | 2017-11-28 @ 11:00 am | 2017-12-01 @ 9:00 am | 1.0 ± 0.3 | 2017-12-05 |
| 7978404 | B107 | 2017-11-28 @ 11:00 am | 2017-12-01 @ 9:00 am | 0.7 ± 0.3 | 2017-12-05 |
| 7978418 | B108 | 2017-11-28 @ 12:00 pm | 2017-12-01 @ 10:00 am | 0.7 ± 0.3 | 2017-12-04 |
| 7978419 | B108 | 2017-11-28 @ 12:00 pm | 2017-12-01 @ 10:00 am | 0.7 ± 0.3 | 2017-12-04 |
| 7978420 | B108C | 2017-11-28 @ 12:00 pm | 2017-12-01 @ 10:00 am | < 0.3 | 2017-12-05 |
| 7978421 | B109 | 2017-11-28 @ 12:00 pm | 2017-12-01 @ 10:00 am | 0.8 ± 0.3 | 2017-12-04 |
| 7978424 | B109A | 2017-11-28 @ 12:00 pm | 2017-12-01 @ 10:00 am | 0.5 ± 0.3 | 2017-12-04 |
| 7978423 | B109B | 2017-11-28 @ 12:00 pm | 2017-12-01 @ 10:00 am | < 0.3 | 2017-12-04 |
| 7978422 | B109B | 2017-11-28 @ 12:00 pm | 2017-12-01 @ 10:00 am | < 0.3 | 2017-12-04 |
| 7978425 | B118 | 2017-11-28 @ 12:00 pm | 2017-12-01 @ 10:00 am | 0.6 ± 0.3 | 2017-12-04 |
| 7978426 | B118 | 2017-11-28 @ 12:00 pm | 2017-12-01 @ 10:00 am | < 0.3 | 2017-12-04 |
| 7978429 | B121 | 2017-11-28 @ 12:00 pm | 2017-12-01 @ 10:00 am | 1.2 ± 0.3 | 2017-12-04 |
| 7978430 | B122 | 2017-11-28 @ 1:00 pm | 2017-12-01 @ 10:00 am | < 0.3 | 2017-12-04 |

Radon test result report for:

SPRINGBROOK HS**1**

| Kit # | Room Id | Started | Ended | pCi/L | Analyzed |
|---------|------------------|-----------------------|-----------------------|-----------|------------|
| 7978431 | B122 OFFICE | 2017-11-28 @ 1:00 pm | 2017-12-01 @ 10:00 am | < 0.3 | 2017-12-04 |
| 7978401 | BLDG SERVICES | 2017-11-28 @ 11:00 am | 2017-12-01 @ 9:00 am | 0.8 ± 0.3 | 2017-12-05 |
| 7978466 | C102 | 2017-11-28 @ 2:00 pm | 2017-12-01 @ 11:00 am | 1.0 ± 0.3 | 2017-12-04 |
| 7978467 | C102A | 2017-11-28 @ 2:00 pm | 2017-12-01 @ 11:00 am | 0.7 ± 0.2 | 2017-12-04 |
| 7978468 | C102D | 2017-11-28 @ 2:00 pm | 2017-12-01 @ 11:00 am | 1.1 ± 0.3 | 2017-12-04 |
| 7978469 | C102G | 2017-11-28 @ 2:00 pm | 2017-12-01 @ 11:00 am | 1.4 ± 0.3 | 2017-12-04 |
| 7978464 | C103 | 2017-11-28 @ 2:00 pm | 2017-12-01 @ 10:00 am | 0.9 ± 0.3 | 2017-12-04 |
| 7978465 | C103 | 2017-11-28 @ 2:00 pm | 2017-12-01 @ 10:00 am | 1.3 ± 0.3 | 2017-12-05 |
| 7978499 | C310 | 2017-11-28 @ 6:00 pm | 2017-12-01 @ 12:00 pm | 1.1 ± 0.3 | 2017-12-04 |
| 7978428 | CAFETERIA | 2017-11-28 @ 12:00 pm | 2017-12-01 @ 10:00 am | 0.7 ± 0.3 | 2017-12-04 |
| 7978427 | CAFETERIA | 2017-11-28 @ 12:00 pm | 2017-12-01 @ 10:00 am | 1.0 ± 0.3 | 2017-12-04 |
| 7978461 | D102 | 2017-11-28 @ 2:00 pm | 2017-12-01 @ 10:00 am | 1.1 ± 0.2 | 2017-12-04 |
| 7978463 | D103 | 2017-11-28 @ 2:00 pm | 2017-12-01 @ 12:00 pm | 1.5 ± 0.3 | 2017-12-04 |
| 7978445 | D104F | 2017-11-28 @ 1:00 pm | 2017-12-01 @ 10:00 am | 1.9 ± 0.3 | 2017-12-04 |
| 7978457 | D107 | 2017-11-28 @ 2:00 pm | 2017-12-01 @ 10:00 am | 0.9 ± 0.3 | 2017-12-04 |
| 7978456 | D107 | 2017-11-28 @ 2:00 pm | 2017-12-01 @ 10:00 am | 0.8 ± 0.3 | 2017-12-05 |
| 7978460 | D107A | 2017-11-28 @ 2:00 pm | 2017-12-01 @ 10:00 am | 0.5 ± 0.3 | 2017-12-05 |
| 7978459 | D107B | 2017-11-28 @ 2:00 pm | 2017-12-01 @ 12:00 pm | 1.1 ± 0.3 | 2017-12-04 |
| 7978455 | D107E | 2017-11-28 @ 2:00 pm | 2017-12-01 @ 10:00 am | 1.0 ± 0.3 | 2017-12-04 |
| 7978454 | D107F | 2017-11-28 @ 2:00 pm | 2017-12-01 @ 10:00 am | 0.6 ± 0.3 | 2017-12-04 |
| 7978462 | D107G | 2017-11-28 @ 2:00 pm | 2017-12-01 @ 10:00 am | 0.9 ± 0.3 | 2017-12-04 |
| 7978451 | D108 | 2017-11-28 @ 2:00 pm | 2017-12-01 @ 10:00 am | 0.5 ± 0.3 | 2017-12-05 |
| 7978450 | D108 PRACTICE RM | 2017-11-28 @ 2:00 pm | 2017-12-01 @ 10:00 am | 0.8 ± 0.3 | 2017-12-04 |
| 7978453 | D108A | 2017-11-28 @ 2:00 pm | 2017-12-01 @ 10:00 am | 0.8 ± 0.3 | 2017-12-05 |
| 7978448 | D108H | 2017-11-28 @ 2:00 pm | 2017-12-01 @ 10:00 am | 0.8 ± 0.3 | 2017-12-04 |
| 7978449 | D108H | 2017-11-28 @ 2:00 pm | 2017-12-01 @ 10:00 am | 0.9 ± 0.3 | 2017-12-05 |
| 7978452 | D108J | 2017-11-28 @ 2:00 pm | 2017-12-01 @ 10:00 am | 0.6 ± 0.3 | 2017-12-04 |
| 7978447 | D120 | 2017-11-28 @ 1:00 pm | 2017-12-01 @ 12:00 pm | 2.2 ± 0.3 | 2017-12-04 |
| 7978478 | E105 | 2017-11-28 @ 5:00 pm | 2017-12-01 @ 11:00 am | 0.9 ± 0.3 | 2017-12-04 |
| 7978479 | E105 | 2017-11-28 @ 5:00 pm | 2017-12-01 @ 2:00 pm | < 0.3 | 2017-12-05 |
| 7978477 | E106 | 2017-11-28 @ 5:00 pm | 2017-12-01 @ 11:00 am | 0.7 ± 0.3 | 2017-12-04 |
| 7978476 | E107 | 2017-11-28 @ 5:00 pm | 2017-12-01 @ 10:00 am | 0.6 ± 0.3 | 2017-12-04 |
| 7976215 | E108 | 2017-11-28 @ 3:00 pm | 2017-12-01 @ 10:00 am | < 0.3 | 2017-12-04 |
| 7976218 | E108 | 2017-11-28 @ 3:00 pm | 2017-12-01 @ 10:00 am | 0.7 ± 0.3 | 2017-12-05 |
| 7976249 | E108B | 2017-11-28 @ 3:00 pm | 2017-12-01 @ 10:00 am | 0.9 ± 0.3 | 2017-12-04 |
| 7978475 | E109 | 2017-11-28 @ 5:00 pm | 2017-12-01 @ 11:00 am | 0.6 ± 0.3 | 2017-12-05 |
| 7978472 | E110 | 2017-11-28 @ 5:00 pm | 2017-12-01 @ 11:00 am | 0.7 ± 0.2 | 2017-12-04 |

Radon test result report for:

SPRINGBROOK HS**1**

| Kit # | Room Id | Started | Ended | pCi/L | Analyzed |
|---------|---------|----------------------|-----------------------|-----------|------------|
| 7976219 | E113 | 2017-11-28 @ 5:00 pm | 2017-12-01 @ 11:00 am | 0.9 ± 0.3 | 2017-12-04 |
| 7978474 | E113 | 2017-11-28 @ 5:00 pm | 2017-12-01 @ 11:00 am | < 0.3 | 2017-12-05 |
| 7978470 | E114 | 2017-11-28 @ 5:00 pm | 2017-12-01 @ 11:00 am | < 0.3 | 2017-12-05 |
| 7976300 | E115 | 2017-11-28 @ 3:00 pm | 2017-12-01 @ 11:00 am | 0.6 ± 0.3 | 2017-12-04 |
| 7978471 | E116 | 2017-11-28 @ 5:00 pm | 2017-12-01 @ 11:00 am | 1.4 ± 0.3 | 2017-12-04 |
| 7976204 | E117 | 2017-11-28 @ 3:00 pm | 2017-12-01 @ 11:00 am | 0.6 ± 0.3 | 2017-12-04 |
| 7976227 | E118 | 2017-11-28 @ 4:00 pm | 2017-12-01 @ 11:00 am | 0.9 ± 0.3 | 2017-12-05 |
| 7978486 | E206 | 2017-11-28 @ 5:00 pm | 2017-12-01 @ 11:00 am | < 0.3 | 2017-12-04 |
| 7978485 | E211 | 2017-11-28 @ 5:00 pm | 2017-12-01 @ 11:00 am | 0.6 ± 0.3 | 2017-12-04 |
| 7978484 | E211 | 2017-11-28 @ 5:00 pm | 2017-12-01 @ 11:00 am | < 0.3 | 2017-12-04 |
| 7978480 | E314 | 2017-11-28 @ 6:00 pm | 2017-12-01 @ 12:00 pm | < 0.3 | 2017-12-05 |
| 7978487 | E319 | 2017-11-28 @ 6:00 pm | 2017-12-01 @ 12:00 pm | < 0.3 | 2017-12-05 |
| 7976289 | F101 | 2017-11-28 @ 3:00 pm | 2017-12-01 @ 11:00 am | < 0.3 | 2017-12-04 |
| 7976213 | F102 | 2017-11-28 @ 3:00 pm | 2017-12-01 @ 11:00 am | < 0.3 | 2017-12-04 |
| 7976221 | F103 | 2017-11-28 @ 4:00 pm | 2017-12-01 @ 11:00 am | 0.9 ± 0.3 | 2017-12-05 |
| 7976205 | F104 | 2017-11-28 @ 3:00 pm | 2017-12-01 @ 11:00 am | 1.1 ± 0.3 | 2017-12-05 |
| 7976206 | F104 | 2017-11-28 @ 3:00 pm | 2017-12-01 @ 11:00 am | 1.0 ± 0.3 | 2017-12-05 |
| 7976217 | F105 | 2017-11-28 @ 4:00 pm | 2017-12-01 @ 11:00 am | 0.8 ± 0.3 | 2017-12-04 |
| 7976211 | F106 | 2017-11-28 @ 3:00 pm | 2017-12-01 @ 11:00 am | 1.6 ± 0.3 | 2017-12-04 |
| 7976234 | F107 | 2017-11-28 @ 4:00 pm | 2017-12-01 @ 11:00 am | 0.6 ± 0.2 | 2017-12-04 |
| 7976235 | F105 | 2017-11-28 @ 4:00 pm | 2017-12-01 @ 11:00 am | 0.6 ± 0.2 | 2017-12-04 |
| 7976208 | F108 | 2017-11-28 @ 3:00 pm | 2017-12-01 @ 11:00 am | 1.5 ± 0.3 | 2017-12-04 |
| 7976229 | F109 | 2017-11-28 @ 4:00 pm | 2017-12-01 @ 11:00 am | 0.8 ± 0.3 | 2017-12-04 |
| 7976207 | F112 | 2017-11-28 @ 3:00 pm | 2017-12-01 @ 11:00 am | 0.8 ± 0.3 | 2017-12-04 |
| 7976203 | F113 | 2017-11-28 @ 3:00 pm | 2017-12-01 @ 11:00 am | 0.8 ± 0.2 | 2017-12-04 |
| 7978483 | F201 | 2017-11-28 @ 5:00 pm | 2017-12-01 @ 11:00 am | 0.8 ± 0.3 | 2017-12-04 |
| 7978490 | F202 | 2017-11-28 @ 5:00 pm | 2017-12-01 @ 11:00 am | 0.6 ± 0.3 | 2017-12-04 |
| 7978489 | F210 | 2017-11-28 @ 5:00 pm | 2017-12-01 @ 11:00 am | 0.5 ± 0.3 | 2017-12-04 |
| 7978496 | F302 | 2017-11-28 @ 6:00 pm | 2017-12-01 @ 12:00 pm | 0.7 ± 0.3 | 2017-12-04 |
| 7978481 | F307 | 2017-11-28 @ 6:00 pm | 2017-12-01 @ 12:00 pm | < 0.3 | 2017-12-04 |
| 7978482 | F307 | 2017-11-28 @ 6:00 pm | 2017-12-01 @ 12:00 pm | < 0.3 | 2017-12-04 |
| 7978492 | G1 | 2017-11-28 @ 6:00 pm | 2017-12-01 @ 12:00 pm | 1.5 ± 0.3 | 2017-12-04 |
| 7976246 | G101 | 2017-11-28 @ 4:00 pm | 2017-12-01 @ 12:00 pm | 2.0 ± 0.3 | 2017-12-04 |
| 7976202 | G105 | 2017-11-28 @ 4:00 pm | 2017-12-01 @ 11:00 am | 0.9 ± 0.3 | 2017-12-04 |
| 7976223 | G106A | 2017-11-28 @ 4:00 pm | 2017-12-01 @ 11:00 am | 0.7 ± 0.3 | 2017-12-04 |
| 7976201 | G107 | 2017-11-28 @ 4:00 pm | 2017-12-01 @ 12:00 pm | 0.8 ± 0.2 | 2017-12-04 |
| 7976209 | G108 | 2017-11-28 @ 4:00 pm | 2017-12-01 @ 11:00 am | 1.0 ± 0.3 | 2017-12-04 |

Radon test result report for:
SPRINGBROOK HS
1

| Kit # | Room Id | Started | Ended | pCi/L | Analyzed |
|--------------|----------------|----------------------|-----------------------|--------------|-----------------|
| 7976216 | G109 | 2017-11-28 @ 4:00 pm | 2017-12-01 @ 11:00 am | 1.2 ± 0.3 | 2017-12-04 |
| 7978497 | G11 | 2017-11-28 @ 6:00 pm | 2017-12-01 @ 12:00 pm | 0.9 ± 0.3 | 2017-12-04 |
| 7976212 | G110 | 2017-11-28 @ 4:00 pm | 2017-12-01 @ 11:00 am | 1.6 ± 0.3 | 2017-12-04 |
| 7976220 | G110 | 2017-11-28 @ 4:00 pm | 2017-12-01 @ 11:00 am | < 0.3 | 2017-12-04 |
| 7976222 | G110B | 2017-11-28 @ 4:00 pm | 2017-12-01 @ 12:00 pm | 1.4 ± 0.3 | 2017-12-04 |
| 7976210 | G111 | 2017-11-28 @ 4:00 pm | 2017-12-01 @ 11:00 am | 4.1 ± 0.4 | 2017-12-05 |
| 7978498 | G12 | 2017-11-28 @ 6:00 pm | 2017-12-01 @ 12:00 pm | 0.9 ± 0.3 | 2017-12-04 |
| 7978491 | G8 | 2017-11-28 @ 6:00 pm | 2017-12-01 @ 12:00 pm | 5.1 ± 0.4 | 2017-12-04 |
| 7975556 | OB | 2017-11-28 @ 2:00 pm | 2017-12-01 @ 2:00 pm | < 0.3 | 2017-12-04 |
| 7975551 | OB | 2017-11-28 @ 2:00 pm | 2017-12-01 @ 2:00 pm | < 0.3 | 2017-12-05 |
| 7978446 | WEIGHT ROOM | 2017-11-28 @ 1:00 pm | 2017-12-01 @ 10:00 am | 2.8 ± 0.3 | 2017-12-05 |

December 21, 2017

**** LABORATORY ANALYSIS REPORT ****

Radon test result report for:
SPRINGBROOK HS
1

| Kit # | Room Id | Started | Ended | pCi/L | Analyzed |
|--------------|----------------|----------------|--------------|--------------|-----------------|
| 7978408 | B105 | @ | @ | | |
| 7978473 | C102H | @ | @ | | |
| 7978443 | D104 | @ | @ | | |
| 7978444 | D104 | @ | @ | | |
| 7978458 | D107C | @ | @ | | |
| 7978488 | E308 | @ | @ | | |

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



Radon Test Kit Chain of Custody

Project Name: MCPS Radon Phase

Names of Schools:

1. Chevy Chase Elementary School
2. Greencastle Elementary School
3. English Manor
4. Rock View Elementary School
5. Wheaton Woods Elementary School
6. Sequoyah Elementary School
7. Fallsmead Elementary School
8. Beall Elementary School
9. Stephen Knolls School
10. Maryvale Elementary School
11. Redland Middle School
12. Walt Whitman High School
13. Springbrook High School
14. Blair G. Ewing Center
15. Viers Mill Elementary School
16. Albert Einstein High School
17. Wayside Elementary School
18. Thomas S. Wootton High School
19. Highland Elementary School
20. Bethesda Transportation Depot
21. Bethesda Maintenance Depot
22. Travilah Elementary School
23. Lathrop E. Smith Center

| | Date | Initials |
|----------------------------------|----------|----------|
| Radon Test Kits Deployed | 11/28/17 | JM |
| Radon Test Kits Collected | 12/01/17 | JM |
| Radon Test Kits Shipped to Lab* | 12/01/17 | JM |
| Radon Test Kits Received by Lab* | 12/05/17 | JM |

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

Radon test result report for:**TRANSIT 1****NONE**

| Kit # | Room Id | Started | Ended | pCi/L | Analyzed |
|---------|------------|----------------------|----------------------|-------|------------|
| 7978062 | TRANSIT 1 | 2017-11-27 @ 4:00 pm | 2017-11-30 @ 4:00 pm | < 0.3 | 2017-12-04 |
| 7975804 | TRANSIT 10 | 2017-11-27 @ 4:00 pm | 2017-11-30 @ 4:00 pm | < 0.3 | 2017-12-04 |
| 7977990 | TRANSIT 11 | 2017-11-27 @ 4:00 pm | 2017-11-30 @ 4:00 pm | < 0.3 | 2017-12-04 |
| 7978201 | TRANSIT 12 | 2017-11-27 @ 4:00 pm | 2017-11-30 @ 4:00 pm | < 0.3 | 2017-12-04 |
| 7978203 | TRANSIT 13 | 2017-11-27 @ 4:00 pm | 2017-11-30 @ 4:00 pm | < 0.3 | 2017-12-04 |
| 7978206 | TRANSIT 14 | 2017-11-27 @ 4:00 pm | 2017-11-30 @ 4:00 pm | < 0.3 | 2017-12-05 |
| 7978246 | TRANSIT 15 | 2017-11-27 @ 4:00 pm | 2017-11-30 @ 4:00 pm | < 0.3 | 2017-12-05 |
| 7978239 | TRANSIT 16 | 2017-11-27 @ 4:00 pm | 2017-11-30 @ 4:00 pm | < 0.3 | 2017-12-05 |
| 7978226 | TRANSIT 17 | 2017-11-27 @ 4:00 pm | 2017-11-30 @ 4:00 pm | < 0.3 | 2017-12-05 |
| 7975078 | TRANSIT 18 | 2017-11-27 @ 4:00 pm | 2017-11-30 @ 4:00 pm | < 0.3 | 2017-12-05 |
| 7975077 | TRANSIT 19 | 2017-11-27 @ 4:00 pm | 2017-11-30 @ 4:00 pm | < 0.3 | 2017-12-05 |
| 7978074 | TRANSIT 2 | 2017-11-27 @ 4:00 pm | 2017-11-30 @ 4:00 pm | < 0.3 | 2017-12-04 |
| 7975076 | TRANSIT 20 | 2017-11-27 @ 4:00 pm | 2017-11-30 @ 4:00 pm | < 0.3 | 2017-12-04 |
| 7975684 | TRANSIT 21 | 2017-11-27 @ 4:00 pm | 2017-11-30 @ 4:00 pm | < 0.3 | 2017-12-04 |
| 7975683 | TRANSIT 22 | 2017-11-27 @ 4:00 pm | 2017-11-30 @ 4:00 pm | < 0.3 | 2017-12-04 |
| 7975601 | TRANSIT 23 | 2017-11-27 @ 4:00 pm | 2017-11-30 @ 4:00 pm | < 0.3 | 2017-12-04 |
| 7978011 | TRANSIT 24 | 2017-11-27 @ 4:00 pm | 2017-11-30 @ 4:00 pm | < 0.3 | 2017-12-04 |
| 7978012 | TRANSIT 25 | 2017-11-27 @ 4:00 pm | 2017-11-30 @ 4:00 pm | < 0.3 | 2017-12-04 |
| 7978094 | TRANSIT 26 | 2017-11-27 @ 4:00 pm | 2017-11-30 @ 4:00 pm | < 0.3 | 2017-12-05 |
| 7975624 | TRANSIT 27 | 2017-11-27 @ 4:00 pm | 2017-11-30 @ 4:00 pm | < 0.3 | 2017-12-05 |
| 7834562 | TRANSIT 28 | 2017-11-27 @ 4:00 pm | 2017-11-30 @ 4:00 pm | < 0.3 | 2017-12-05 |
| 7977995 | TRANSIT 29 | 2017-11-27 @ 4:00 pm | 2017-11-30 @ 4:00 pm | < 0.3 | 2017-12-05 |
| 7978098 | TRANSIT 3 | 2017-11-27 @ 4:00 pm | 2017-11-30 @ 4:00 pm | < 0.3 | 2017-12-04 |
| 7977992 | TRANSIT 30 | 2017-11-27 @ 4:00 pm | 2017-11-30 @ 4:00 pm | < 0.3 | 2017-12-04 |
| 7978719 | TRANSIT 4 | 2017-11-27 @ 4:00 pm | 2017-11-30 @ 4:00 pm | < 0.3 | 2017-12-05 |
| 7978732 | TRANSIT 5 | 2017-11-27 @ 4:00 pm | 2017-11-30 @ 4:00 pm | < 0.3 | 2017-12-04 |
| 7978731 | TRANSIT 6 | 2017-11-27 @ 4:00 pm | 2017-11-30 @ 4:00 pm | < 0.3 | 2017-12-04 |
| 7975806 | TRANSIT 7 | 2017-11-27 @ 4:00 pm | 2017-11-30 @ 4:00 pm | < 0.3 | 2017-12-04 |
| 7975815 | TRANSIT 8 | 2017-11-27 @ 4:00 pm | 2017-11-30 @ 4:00 pm | < 0.3 | 2017-12-04 |
| 7975805 | TRANSIT 9 | 2017-11-27 @ 4:00 pm | 2017-11-30 @ 4:00 pm | < 0.3 | 2017-12-04 |

December 19, 2017

**** LABORATORY ANALYSIS REPORT ****

Radon test result report for:

MCPS - Spike Sample Laboratory Results. Measured values are satisfactory, i.e. within $\pm 25\%$ of the chamber's reference value (27.7 pCi/L).

| Kit # | Room Id | Started | Ended | pCi/L | Analyzed |
|--------------|----------------|-----------------------|-----------------------|----------------|-----------------|
| 7975075 | S1 | 2017-12-01 @ 11:00 am | 2017-12-04 @ 11:00 am | 25.6 \pm 0.7 | 2017-12-07 |
| 7975064 | S2 | 2017-12-01 @ 11:00 am | 2017-12-04 @ 11:00 am | 27.4 \pm 0.8 | 2017-12-07 |
| 7975063 | S3 | 2017-12-01 @ 11:00 am | 2017-12-04 @ 11:00 am | 26.3 \pm 0.7 | 2017-12-07 |
| 7975065 | S4 | 2017-12-01 @ 11:00 am | 2017-12-04 @ 11:00 am | 23.0 \pm 0.7 | 2017-12-07 |
| 7975069 | S5 | 2017-12-01 @ 11:00 am | 2017-12-04 @ 11:00 am | 25.6 \pm 0.7 | 2017-12-07 |
| 7975070 | S6 | 2017-12-01 @ 11:00 am | 2017-12-04 @ 11:00 am | 23.0 \pm 0.7 | 2017-12-07 |

Air Chek, Inc. 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 182393

NOMINAL Conditions: Radon Conc 27.7 pCi/L Rel. Hum 49.1 % Temp. 70.1 F

Date Start: 12/1/17 Date Stop: 12/4/17 Date Start: _____ Date Stop: _____

Time Start: 1049 Time Stop: 1049 Time Start: _____ Time Stop: _____

Device No.'s: (6) Char. Bags. Device No.'s: _____

7975075, 7975064, 7975063, _____

7975065, 7975069, 7975070 _____

F4 Right

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

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

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

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

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

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

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



MCPS RADON TESTING

Executive Summary: Springbrook High School

| | |
|---------------------------|--|
| Date of Test Report: | 10/20/2016 |
| Round of Testing: | Initial Follow-up Post Remediation |
| # Rooms Tested: | 40 |
| # Rooms \geq 4.0 pCi/L: | 2 |
| Low Value: | < 0.3 |
| High Value: | 4.8 |

Rooms with results \geq 4.0 pCi/L:
F109 (4.8 pCi/L), F107 (4.2 pCi/L)

Project Status:

Post-remediation testing completed; additional remediation is required.
Retest needed for missing/compromised samples and inaccessible rooms.



October 20, 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: Springbrook High School
201 Valley Brook Drive
Silver Spring, MD 20904

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 Springbrook High School, located at 201 Valley Brook Drive in Silver Spring, Maryland 20904 (subject site).

Scope of Services:

KCI conducted radon testing at the subject site to evaluate indoor radon levels relative to the USEPA's recommended action level of 4.0 picocuries per Liter (pCi/L) - the level at which EPA recommends that schools take action to reduce the level. KCI conducted the radon testing in accordance with American Association of Radon Scientists and Technologists (AARST) *Protocol for Conducting Measurements of Radon and Radon Decay Products in Schools and Large Buildings*. A National Radon Safety Board (NRSB) Radon Measurement Specialist (certification #14SS056) supervised the testing. Additional information on radon management and the health effects of radon exposure is available from www.montgomerycountymd.gov/dep/air/radon or www.epa.gov/radon.

KCI visited the site on September 26, 2016 and deployed forty-five (45) 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 29, 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:

- Post-mitigation testing for radon mitigation systems installed recently.

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

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

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:

| Radon Concentration | Room | Result |
|----------------------------|------------------|---------------|
| ≥4.0 pCi/L | F109 | 4.8 |
| | F107 | 4.2 |
| <4.0 pCi/L | See Attachment B | |

Notes:

D- Duplicate sample

The lab transit blanks and office 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. Mouldsdale
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

| Radon Testing Results | | |
|--------------------------------|----------------------------------|--------|
| Springbrook High School | | |
| Test Period: 09/26/16-09/29/16 | | |
| Kit Number | Room / Area | Result |
| - | * ART (Inaccessible/Locked Room) | - |
| 7714189 | B104 | < 0.3 |
| 7714199 | B106 | < 0.3 |
| 7714198 | B108 | 0.8 |
| 7769898 | B108C | < 0.3 |
| 7769846 | * B108D (Tampered) | 0.6 |
| 7769847 | B109 | < 0.3 |
| 7714190 | B109/110 | < 0.3 |
| 7769848 | B109A | < 0.3 |
| 7769897 | B109B | < 0.3 |
| 7714175 | B118 | < 0.3 |
| 7714191 | B120B | < 0.3 |
| 7714162 | C103D | 1.0 |
| 7714184 | C103E | 0.7 |
| 7714165 | * C103H (Tampered) | 0.6 |
| 7714141 | D104 | 3.8 |
| 7714164 | D104 | 2.3 |
| 7714186 | D104E | < 0.3 |
| 7714161 | * E106 (Tampered) | 0.9 |
| 7714188 | E108 | < 0.3 |
| 7714172 | E110 | 0.9 |
| 7714173 | E111 | < 0.3 |
| 7769849 | E113 | 1.1 |
| 7714174 | E115 | 0.8 |
| 7714196 | F103 | 1.6 |
| 7714183 | * F105 (Tampered) | 3.6 |
| 7714182 | F106 | 1.1 |
| 7714170 | F107 | 4.2 |
| 7714169 | F108 | < 0.3 |
| 7714197 | F109 | 4.8 |
| 7714159 | G1 | 1.2 |
| 7769896 | G108 | < 0.3 |
| 7714193 | G109 | 0.6 |
| 7714178 | G11 | 1.0 |
| 7714195 | G110 | 0.7 |
| 7714192 | G111 | < 0.3 |
| 7714194 | G111A | 0.7 |
| 7769853 | G12 | 1.1 |
| 7714158 | G8 | 1.7 |
| 7714167 | KIT | 0.6 |
| 7714166 | TRAIN | < 0.3 |

Table Note:

* Missing or Compromised Sample

| Radon Testing Results | | |
|---------------------------------------|----------------|---------------|
| Springbrook High School | | |
| Test Period: 09/26/16-09/29/16 | | |
| Kit Number | QC Type | Result |
| 7769886 | D (B104) | 0.6 |
| 7714187 | D (D104E) | 0.7 |
| 7714171 | D (F107) | 3.5 |
| 7769900 | D (KIT) | 0.5 |

Table Note:

* Missing or Compromised Sample

ATTACHMENT C

Laboratory Analytical Results

Radon test result report for:

**SPRINGBROOK HIGH SCHOOL
MAIN**

| Kit # | Room Id | Started | Ended | pCi/L | Analyzed |
|---------|----------|----------------------|-----------------------|-----------|------------|
| 7714189 | B104 | 2016-09-26 @ 2:00 pm | 2016-09-29 @ 12:00 pm | < 0.3 | 2016-10-03 |
| 7769886 | B104 | 2016-09-26 @ 2:00 pm | 2016-09-29 @ 12:00 pm | 0.6 ± 0.3 | 2016-10-03 |
| 7714200 | B105 | @ | @ | | |
| 7714199 | B106 | 2016-09-26 @ 1:00 pm | 2016-09-29 @ 12:00 pm | < 0.3 | 2016-10-03 |
| 7714198 | B108 | 2016-09-26 @ 1:00 pm | 2016-09-29 @ 11:00 am | 0.8 ± 0.3 | 2016-10-03 |
| 7769898 | B108C | 2016-09-26 @ 1:00 pm | 2016-09-29 @ 12:00 pm | < 0.3 | 2016-10-03 |
| 7769846 | B108D | 2016-09-26 @ 1:00 pm | 2016-09-29 @ 12:00 pm | 0.6 ± 0.3 | 2016-10-03 |
| 7769847 | B109 | 2016-09-26 @ 2:00 pm | 2016-09-29 @ 12:00 pm | < 0.3 | 2016-10-03 |
| 7714190 | B109/110 | 2016-09-26 @ 2:00 pm | 2016-09-29 @ 12:00 pm | < 0.3 | 2016-10-03 |
| 7769848 | B109A | 2016-09-26 @ 1:00 pm | 2016-09-29 @ 12:00 pm | < 0.3 | 2016-10-03 |
| 7769897 | B109B | 2016-09-26 @ 2:00 pm | 2016-09-29 @ 12:00 pm | < 0.3 | 2016-10-03 |
| 7714175 | B118 | 2016-09-26 @ 4:00 pm | 2016-09-29 @ 1:00 pm | < 0.3 | 2016-10-03 |
| 7714191 | B120B | 2016-09-26 @ 2:00 pm | 2016-09-29 @ 12:00 pm | < 0.3 | 2016-10-03 |
| 7714162 | C103D | 2016-09-26 @ 3:00 pm | 2016-09-29 @ 1:00 pm | 1.0 ± 0.3 | 2016-10-03 |
| 7714184 | C103E | 2016-09-26 @ 3:00 pm | 2016-09-29 @ 1:00 pm | 0.7 ± 0.3 | 2016-10-03 |
| 7714165 | C103H | 2016-09-26 @ 3:00 pm | 2016-09-29 @ 1:00 pm | 0.6 ± 0.3 | 2016-10-03 |
| 7714164 | D104 | 2016-09-26 @ 3:00 pm | 2016-09-29 @ 12:00 pm | 2.3 ± 0.5 | 2016-10-03 |
| 7714141 | D104 | 2016-09-26 @ 3:00 pm | 2016-09-29 @ 12:00 pm | 3.8 ± 0.6 | 2016-10-03 |
| 7714186 | D104E | 2016-09-26 @ 3:00 pm | 2016-09-29 @ 12:00 pm | < 0.3 | 2016-10-03 |
| 7714187 | D104E | 2016-09-26 @ 3:00 pm | 2016-09-29 @ 12:00 pm | 0.7 ± 0.3 | 2016-10-03 |
| 7714161 | E106 | 2016-09-26 @ 3:00 pm | 2016-09-29 @ 12:00 pm | 0.9 ± 0.3 | 2016-10-03 |
| 7714188 | E108 | 2016-09-26 @ 3:00 pm | 2016-09-29 @ 12:00 pm | < 0.3 | 2016-10-03 |
| 7714172 | E110 | 2016-09-26 @ 3:00 pm | 2016-09-29 @ 12:00 pm | 0.9 ± 0.3 | 2016-10-03 |
| 7714173 | E111 | 2016-09-26 @ 3:00 pm | 2016-09-29 @ 12:00 pm | < 0.3 | 2016-10-03 |
| 7769849 | E113 | 2016-09-26 @ 3:00 pm | 2016-09-29 @ 12:00 pm | 1.1 ± 0.3 | 2016-10-03 |
| 7714174 | E115 | 2016-09-26 @ 3:00 pm | 2016-09-29 @ 12:00 pm | 0.8 ± 0.3 | 2016-10-03 |
| 7714196 | F103 | 2016-09-26 @ 2:00 pm | 2016-09-29 @ 12:00 pm | 1.6 ± 0.4 | 2016-10-03 |
| 7714183 | F105 | 2016-09-26 @ 2:00 pm | 2016-09-29 @ 12:00 pm | 3.6 ± 0.5 | 2016-10-03 |
| 7714182 | F106 | 2016-09-26 @ 2:00 pm | 2016-09-29 @ 12:00 pm | 1.1 ± 0.3 | 2016-10-03 |
| 7714171 | F107 | 2016-09-26 @ 2:00 pm | 2016-09-29 @ 12:00 pm | 3.5 ± 0.5 | 2016-10-03 |
| 7714170 | F107 | 2016-09-26 @ 2:00 pm | 2016-09-29 @ 12:00 pm | 4.2 ± 0.6 | 2016-10-03 |
| 7714169 | F108 | 2016-09-26 @ 3:00 pm | 2016-09-29 @ 12:00 pm | < 0.3 | 2016-10-03 |
| 7714197 | F109 | 2016-09-26 @ 2:00 pm | 2016-09-29 @ 12:00 pm | 4.8 ± 0.6 | 2016-10-03 |
| 7714159 | G1 | 2016-09-26 @ 4:00 pm | 2016-09-29 @ 1:00 pm | 1.2 ± 0.4 | 2016-10-03 |
| 7769896 | G108 | 2016-09-26 @ 2:00 pm | 2016-09-29 @ 1:00 pm | < 0.3 | 2016-10-03 |
| 7714193 | G109 | 2016-09-26 @ 2:00 pm | 2016-09-29 @ 12:00 pm | 0.6 ± 0.3 | 2016-10-03 |
| 7714178 | G11 | 2016-09-26 @ 4:00 pm | 2016-09-29 @ 1:00 pm | 1.0 ± 0.4 | 2016-10-03 |

October 17, 2016

**** LABORATORY ANALYSIS REPORT ****

Radon test result report for:

**SPRINGBROOK HIGH SCHOOL
MAIN**

| Kit # | Room Id | Started | Ended | pCi/L | Analyzed |
|--------------|----------------|----------------------|-----------------------|--------------|-----------------|
| 7714195 | G110 | 2016-09-26 @ 2:00 pm | 2016-09-29 @ 12:00 pm | 0.7 ± 0.3 | 2016-10-03 |
| 7714192 | G111 | 2016-09-26 @ 2:00 pm | 2016-09-29 @ 12:00 pm | < 0.3 | 2016-10-03 |
| 7714194 | G111A | 2016-09-26 @ 2:00 pm | 2016-09-29 @ 12:00 pm | 0.7 ± 0.3 | 2016-10-03 |
| 7769853 | G12 | 2016-09-26 @ 4:00 pm | 2016-09-29 @ 1:00 pm | 1.1 ± 0.3 | 2016-10-03 |
| 7714158 | G8 | 2016-09-26 @ 4:00 pm | 2016-09-29 @ 1:00 pm | 1.7 ± 0.4 | 2016-10-03 |
| 7769900 | KIT | 2016-09-26 @ 4:00 pm | 2016-09-29 @ 12:00 pm | 0.5 ± 0.3 | 2016-10-03 |
| 7714167 | KIT | 2016-09-26 @ 4:00 pm | 2016-09-29 @ 12:00 pm | 0.6 ± 0.3 | 2016-10-03 |
| 7714166 | TRAIN | 2016-09-26 @ 3:00 pm | 2016-09-29 @ 12:00 pm | < 0.3 | 2016-10-03 |

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October 7, 2016

**** LABORATORY ANALYSIS REPORT ****

Radon test result report for:

MCPS Radon

Phase 18 Office Blanks

| Kit # | Room Id | Started | Ended | pCi/L | Analyzed |
|--------------|----------------|-----------------------|-----------------------|--------------|-----------------|
| 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**

| Kit # | Room Id | Started | Ended | pCi/L | Analyzed |
|--------------|----------------|-----------------------|-----------------------|--------------|-----------------|
| 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 |

October 12, 2016

**** LABORATORY ANALYSIS REPORT ****

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

| Kit # | Room Id | Started | Ended | pCi/L | Analyzed |
|--------------|----------------|----------------------|----------------------|--------------|-----------------|
| 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 |

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

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

| | 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 SCREENING SURVEY – POST REMEDIATION SAMPLING SPRINGBROOK
HIGH SCHOOL**

201 Valley Brook Drive, Silver Spring, Maryland 20904

EXECUTIVE SUMMARY

| | |
|---|---|
| Date of Test Report: | 4/20/16 Post Remediation |
| Round of Testing: | Initial Follow-up Post Remediation |
| # Rooms Tested | 116 |
| # Rooms \geq 4.0 pCi/L: | 11 |
| Low Value: | <0.3 |
| High Value: | 12.3 |
| Confirmed Rooms \geq 4.0 pCi/L US EPA Action Level | 9 |

Summary of Sampling Events \geq 4.0 pCi/L

| Room | Result (pCi/L) 12/11/15 Initial | Result (pCi/L) 12/31/15 Follow-Up | Average Result (pCi/L) | Post Remediation (pCi/L) 4/20/16 |
|----------|------------------------------------|---|---------------------------|--|
| B109/110 | 6.1 | 5.0 | 5.6 | 2.8 |
| B109A | 14.6 | 11.3 | 12.9 | 12.3 |
| B109B | 5.5 | 5.7 | 5.6 | 5.2 |
| B104 | 4.6 | 4.9 | 4.7 | 3.4 |
| E111 | 8.9 | 7.7 | 8.3 | 1.3 |
| E108 | 4.7 | 4.1 | 4.4 | 1.0 |
| F105 | 6.3 | 7.9 | 7.1 | 1.7 |
| C103H | Not tested | 4.0 | 4.0 | 2.6 |
| F106 | 4.3 | 1.2 | 2.8 | 1.0 |
| F107 | 4.4 | 2.9 | 3.7 | 0.7 |
| G108 | 4.8 | 2.7 | 3.8 | 2.5 |
| G111A | Not tested | Not tested | n/a | 7.0 |
| D104 | Not tested | Not tested | n/a | 6.7 |
| G8 | Not tested | Not tested | n/a | 6.6 |
| D104E | Not tested | Not tested | n/a | 5.8 |
| G12 | 3.8 | Not tested | 3.8 | 5.5 |
| C103E | Not tested | Not tested | n/a | 4.6 |
| B120B | Not tested | Not tested | n/a | 4.1 |



MCPS RADON TESTING

Executive Summary: Springbrook High School

| | |
|---------------------------|--|
| Date of Test Report: | 4/20/2016 |
| Round of Testing: | Initial Follow up Post Remediation |
| # Rooms Tested: | 116 |
| # Rooms \geq 4.0 pCi/L: | 11 |
| Low Value: | < 0.3 |
| High Value: | 12.3 |

Rooms with results \geq 4.0 pCi/L:

B109A (12.3 pCi/L), G111A (7.3 pCi/L), G111 (7.0 pCi/L), D104 (6.7 pCi/L), G8 (6.6 pCi/L), D104 (6.2 pCi/L), D104E (5.8 pCi/L), G12 (5.5 pCi/L), B109B (5.2 pCi/L), C103E (4.6 pCi/L), B120B (4.1 pCi/L)

Project Status:

Post-remediation testing completed; additional remediation is required.



April 20, 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 # 12146341.34

Location: Springbrook High School
201 Valley Brook Drive
Silver Spring, MD 20904

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 Springbrook High School, located at 201 Valley Brook Drive in Silver Spring, Maryland 20904 (subject site).

Scope of Services:

KCI conducted radon testing at the subject site to evaluate indoor radon levels relative to the USEPA's recommended action level of 4.0 picocuries per Liter (pCi/L) - the level at which EPA recommends that schools take action to reduce the level. KCI conducted the radon testing in accordance with American Association of Radon Scientists and Technologists (AARST) *Protocol for Conducting Measurements of Radon and Radon Decay Products in Schools and Large Buildings*. A National Radon Safety Board (NRSB) Radon Measurement Specialist (certification #14SS056) supervised the testing. Additional information on radon management and the health effects of radon exposure is available from www.montgomerycountymd.gov/dep/air/radon or www.epa.gov/radon.

KCI visited the site on March 29, 2016 and deployed one hundred forty-eight (148) 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 April 1, 2016 to retrieve the radon sampling test kits. KCI shipped all radon tests via overnight delivery to Airchek, Inc. for analysis by gamma-ray spectroscopy. Airchek, Inc. is a NRSB certified analytical laboratory for radon analysis (certification # ARL1402) located at 1936 Butler Bridge Road, Mills River, North Carolina.

Evaluation of Testing Conditions:

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

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

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

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

School personnel informed KCI during the sample collection that numerous windows were opened for extended periods during the testing due to a problem with the facility's HVAC system.

Results:

The results of the radon test analysis indicated the following:

| Radon Concentration | Room | Result |
|------------------------------------|-------------------------|---------------|
| ≥ 4.0 pCi/L | B109A | 12.3 |
| | G111A | 7.3, 6.8 (D) |
| | G111 | 7.0 |
| | D104 | 6.7 |
| | G8 | 6.6 |
| | D104 | 6.2 |
| | D104E | 5.8 |
| | G12 | 5.5 |
| | B109B | 5.2 |
| | C103E | 4.2, 4.6 (D) |
| | B120B | 4.1 |
| < 4.0 pCi/L | 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

Table Notes:

AC- Activated Charcoal

ACI- Air Chek, Inc.

D- Duplicate

FB- Field Blank

KCI- KCI Technologies, Inc.

OB- Office Blank*

PM- Project Manager

QC- Quality Control

*Office blanks were submitted at a rate of 1% for all samples deployed in Phase 13 testing. Office blanks were not submitted under each school individually.

| Radon Testing Results | | |
|---------------------------------------|--------------------|---------------|
| Springbrook High School | | |
| Test Period: 03/29/16-04/01/16 | | |
| Kit Number | Room / Area | Result |
| 7747873 | A101 | 1.8 |
| 7747842 | A102 | 1.3 |
| 7747867 | A103 | 1.6 |
| 7747861 | A104 | 1.2 |
| 7747860 | A105 | 1.5 |
| 7747846 | A106 | 1.5 |
| 7747859 | A108 | 1.2 |
| 7747854 | A109 | 1.0 |
| 7747851 | A110 | 1.1 |
| 7747830 | A112 | 1.8 |
| 7747868 | A114 | 1.2 |
| 7747810 | B101 | 1.4 |
| 7747801 | B102 | 2.2 |
| 7747839 | B102B | 3.0 |
| 7747824 | B103 | 2.7 |
| 7747554 | B104 | 3.4 |
| 7747835 | B105 | 2.3 |
| 7747850 | B105A | 2.5 |
| 7726896 | B106 | 1.8 |
| 7747560 | B107 | 1.4 |
| 7747841 | B108 | 2.8 |
| 7747858 | B108C | 2.2 |
| 7747821 | B109A | 12.3 |
| 7747808 | B109B | 5.2 |
| 7747836 | B110 | 2.8 |
| 7747840 | B117 | 1.1 |
| 7747834 | B117A | 0.9 |
| 7747829 | B119 | < 0.3 |
| 7747827 | B119 | < 0.3 |
| 7747843 | B120B | 4.1 |
| 7747849 | B122 | 0.8 |
| 7747844 | B122A | 1.2 |
| 7747845 | B122B | 1.1 |
| 7747892 | C101 | 0.6 |
| 7747898 | C101A | 2.3 |
| 7747900 | C101B | 2.8 |
| 7747895 | C101D | 2.5 |
| 7747889 | C101E | 2.7 |
| 7747894 | C101G | 2.3 |
| 7747890 | C101H | 2.7 |
| 7747875 | C101J | < 0.3 |
| 7747891 | C101K | 2.4 |
| 7747899 | C101L | 2.0 |
| 7747883 | C101M | 2.5 |
| 7747897 | C101O | 2.1 |
| 7747876 | C101R | 2.3 |

Table Note:

* Missing or Compromised Sample

| Radon Testing Results | | |
|---------------------------------------|--------------------|---------------|
| Springbrook High School | | |
| Test Period: 03/29/16-04/01/16 | | |
| Kit Number | Room / Area | Result |
| 7747885 | C101S | 1.8 |
| 7747864 | C102A | 2.5 |
| 7747848 | C102B | 2.9 |
| 7747856 | C102D | 2.6 |
| 7747855 | C102G | 3.5 |
| 7747863 | C102H | 3.1 |
| 7747511 | C103 | 2.0 |
| 7747501 | C103 | 2.2 |
| 7747512 | C103 | 2.3 |
| 7747567 | C103A | 2.2 |
| 7747559 | C103D | 3.6 |
| 7747568 | C103E | 4.2 |
| 7747557 | C103H | 2.6 |
| 7747565 | D104 | 6.7 |
| 7747566 | D104 | 6.2 |
| 7747822 | D104E | 5.8 |
| 7747572 | D104F | 2.4 |
| 7747564 | D107 | 1.2 |
| 7747571 | D107E | 1.4 |
| 7747546 | D107G | 1.9 |
| 7747553 | D108 | 1.4 |
| 7747816 | E105 | 1.6 |
| 7747502 | E106 | 1.2 |
| 7747515 | E106A | 1.1 |
| 7747837 | E107 | 1.0 |
| 7747513 | E108 | 1.0 |
| 7747509 | E108B | 1.1 |
| 7747505 | E109 | 0.7 |
| 7747514 | E110 | 1.0 |
| 7747510 | E111 | 1.3 |
| 7747529 | E113 | 0.6 |
| 7747504 | E114 | 0.6 |
| 7747518 | E115 | 1.2 |
| 7747517 | E116 | 1.3 |
| 7747541 | E116A | 1.3 |
| 7747542 | E117 | 0.8 |
| 7747516 | E118 | 1.6 |
| 7747551 | F101 | 0.7 |
| 7747544 | F102 | 2.0 |
| 7747556 | F103 | 1.3 |
| 7747522 | F104 | 0.6 |
| 7747549 | F105 | 1.7 |
| 7747555 | F106 | 1.0 |
| 7747550 | F107 | 0.7 |
| 7747519 | F108 | < 0.3 |
| 7747543 | F109 | 0.8 |
| 7747527 | F113 | 0.8 |
| 7747521 | F113A | 0.6 |
| 7747869 | G1 | 1.4 |
| 7747539 | G101 | 1.0 |

Table Note:

* Missing or Compromised Sample

| Radon Testing Results | | |
|---------------------------------------|--------------------|---------------|
| Springbrook High School | | |
| Test Period: 03/29/16-04/01/16 | | |
| Kit Number | Room / Area | Result |
| 7747524 | G101A | 1.3 |
| 7747528 | G105 | 1.0 |
| 7747520 | G106A | 0.8 |
| 7747530 | G106B | 1.4 |
| 7747533 | G107 | 1.2 |
| 7747552 | G108 | 2.5 |
| 7747523 | G109 | 2.0 |
| 7747874 | G11 | 2.6 |
| 7747548 | G110L | 2.8 |
| 7747540 | G111 | 7.0 |
| 7747532 | G111A | 7.3 |
| 7747882 | G12 | 5.5 |
| 7747881 | G2 | 0.9 |
| 7747886 | G206 | 1.1 |
| 7747871 | G207 | 0.8 |
| 7747887 | G208 | 1.4 |
| 7747893 | G209 | 1.3 |
| 7747888 | G210 | 3.2 |
| 7747831 | G307 | 0.5 |
| 7747879 | G311 | 0.7 |
| 7747880 | G312 | 0.7 |
| 7747884 | G313 | 0.9 |
| 7747878 | G314 | 0.8 |
| 7747847 | G8 | 6.6 |

Table Note:

* Missing or Compromised Sample

| Radon Testing Results | | |
|---------------------------------------|----------------|---------------|
| Springbrook High School | | |
| Test Period: 03/29/16-04/01/16 | | |
| Kit Number | QC Type | Result |
| 7747866 | D (A101) | 1.7 |
| 7747862 | D (A110) | 1.2 |
| 7747826 | D (B103) | 3.6 |
| 7747857 | D (B122) | 1.1 |
| 7747838 | D (C102B) | 2.4 |
| 7747573 | D (C103E) | 4.6 |
| 7747569 | D (D107G) | 2.4 |
| 7747506 | D (E106) | 1.1 |
| 7747508 | D (E111) | 1.0 |
| 7747547 | D (F101) | 0.7 |
| 7747525 | D (F109) | 0.6 |
| 7747526 | D (G111A) | 6.8 |
| 7747872 | D (G207) | 1.1 |
| 7747833 | D (G307) | 0.9 |
| 7747865 | FB (A101) | < 0.3 |
| 7747828 | FB (A110) | < 0.3 |
| 7747832 | FB (B103) | < 0.3 |
| 7747852 | FB (B122) | < 0.3 |
| 7747853 | FB (C102B) | < 0.3 |
| 7747558 | FB (C103E) | < 0.3 |
| 7747570 | FB (D107G) | < 0.3 |
| 7747503 | FB (E106) | < 0.3 |
| 7747507 | FB (E111) | < 0.3 |
| 7747545 | FB (F101) | < 0.3 |
| 7747534 | FB (F109) | < 0.3 |
| 7747531 | FB (G111A) | < 0.3 |
| 7747870 | FB (G207) | < 0.3 |
| 7747877 | FB (G307) | < 0.3 |

Table Note:

* Missing or Compromised Sample

ATTACHMENT C

Laboratory Analytical Results

April 8, 2016 ** LABORATORY ANALYSIS REPORT **

Radon test result report for:
**SPRINGBROOK HIGH SCHOOL
MAIN**

| Kit # | Room Id | Started | Ended | pCi/L | Analyzed |
|---------|---------|----------------------|-----------------------|------------|------------|
| 7747865 | A101 | 2016-03-29 @ 4:00 pm | 2016-04-01 @ 11:00 am | < 0.3 | 2016-04-05 |
| 7747866 | A101 | 2016-03-29 @ 4:00 pm | 2016-04-01 @ 11:00 am | 1.7 ± 0.3 | 2016-04-05 |
| 7747873 | A101 | 2016-03-29 @ 4:00 pm | 2016-04-01 @ 11:00 am | 1.8 ± 0.3 | 2016-04-05 |
| 7747867 | A103 | 2016-03-29 @ 4:00 pm | 2016-04-01 @ 11:00 am | 1.6 ± 0.3 | 2016-04-05 |
| 7747861 | A104 | 2016-03-29 @ 4:00 pm | 2016-04-01 @ 11:00 am | 1.2 ± 0.3 | 2016-04-05 |
| 7747860 | A105 | 2016-03-29 @ 4:00 pm | 2016-04-01 @ 11:00 am | 1.5 ± 0.3 | 2016-04-05 |
| 7747846 | A106 | 2016-03-29 @ 3:00 pm | 2016-04-01 @ 11:00 am | 1.5 ± 0.3 | 2016-04-05 |
| 7747859 | A108 | 2016-03-29 @ 3:00 pm | 2016-04-01 @ 11:00 am | 1.2 ± 0.3 | 2016-04-05 |
| 7747854 | A109 | 2016-03-29 @ 3:00 pm | 2016-04-01 @ 11:00 am | 1.0 ± 0.3 | 2016-04-05 |
| 7747828 | A110 | 2016-03-29 @ 3:00 pm | 2016-04-01 @ 11:00 am | < 0.3 | 2016-04-05 |
| 7747851 | A110 | 2016-03-29 @ 3:00 pm | 2016-04-01 @ 11:00 am | 1.1 ± 0.3 | 2016-04-05 |
| 7747862 | A110 | 2016-03-29 @ 3:00 pm | 2016-04-01 @ 11:00 am | 1.2 ± 0.3 | 2016-04-05 |
| 7747830 | A112 | 2016-03-29 @ 3:00 pm | 2016-04-01 @ 11:00 am | 1.8 ± 0.3 | 2016-04-05 |
| 7747868 | A114 | 2016-03-29 @ 4:00 pm | 2016-04-01 @ 11:00 am | 1.2 ± 0.3 | 2016-04-05 |
| 7747801 | B102 | 2016-03-29 @ 2:00 pm | 2016-04-01 @ 5:00 pm | 2.2 ± 0.3 | 2016-04-05 |
| 7747839 | B102B | 2016-03-29 @ 2:00 pm | 2016-04-01 @ 2:00 pm | 3.0 ± 0.4 | 2016-04-05 |
| 7747824 | B103 | 2016-03-29 @ 3:00 pm | 2016-04-01 @ 2:00 pm | 2.7 ± 0.4 | 2016-04-05 |
| 7747832 | B103 | 2016-03-29 @ 3:00 pm | 2016-04-01 @ 2:00 pm | < 0.3 | 2016-04-05 |
| 7747554 | B104 | 2016-03-29 @ 6:00 pm | 2016-04-01 @ 2:00 pm | 3.4 ± 0.4 | 2016-04-05 |
| 7747835 | B105 | 2016-03-29 @ 3:00 pm | 2016-04-01 @ 2:00 pm | 2.3 ± 0.3 | 2016-04-05 |
| 7747850 | B105A | 2016-03-29 @ 3:00 pm | 2016-04-01 @ 2:00 pm | 2.5 ± 0.4 | 2016-04-05 |
| 7726896 | B106 | 2016-03-29 @ 6:00 pm | 2016-04-01 @ 2:00 pm | 1.8 ± 0.3 | 2016-04-05 |
| 7747560 | B107 | 2016-03-29 @ 6:00 pm | 2016-04-01 @ 2:00 pm | 1.4 ± 0.3 | 2016-04-05 |
| 7747841 | B108 | 2016-03-29 @ 3:00 pm | 2016-04-01 @ 2:00 pm | 2.8 ± 0.4 | 2016-04-05 |
| 7747821 | B109A | 2016-03-29 @ 3:00 pm | 2016-04-01 @ 2:00 pm | 12.3 ± 0.6 | 2016-04-05 |
| 7747808 | B109B | 2016-03-29 @ 3:00 pm | 2016-04-01 @ 2:00 pm | 5.2 ± 0.4 | 2016-04-05 |
| 7747836 | B110 | 2016-03-29 @ 3:00 pm | 2016-04-01 @ 2:00 pm | 2.8 ± 0.4 | 2016-04-05 |
| 7747840 | B117 | 2016-03-29 @ 3:00 pm | 2016-04-01 @ 2:00 pm | 1.1 ± 0.3 | 2016-04-05 |
| 7747834 | B117A | 2016-03-29 @ 3:00 pm | 2016-04-01 @ 2:00 pm | 0.9 ± 0.3 | 2016-04-05 |
| 7747827 | B119 | 2016-03-29 @ 2:00 pm | 2016-04-01 @ 2:00 pm | < 0.3 | 2016-04-05 |
| 7747829 | B119 | 2016-03-29 @ 2:00 pm | 2016-04-01 @ 2:00 pm | < 0.3 | 2016-04-05 |
| 7747843 | B120B | 2016-03-29 @ 3:00 pm | 2016-04-01 @ 2:00 pm | 4.1 ± 0.4 | 2016-04-05 |
| 7747849 | B122 | 2016-03-29 @ 3:00 pm | 2016-04-01 @ 11:00 am | 0.8 ± 0.3 | 2016-04-05 |
| 7747852 | B122 | 2016-03-29 @ 3:00 pm | 2016-04-01 @ 11:00 am | < 0.3 | 2016-04-05 |
| 7747857 | B122 | 2016-03-29 @ 3:00 pm | 2016-04-01 @ 11:00 am | 1.1 ± 0.3 | 2016-04-05 |
| 7747844 | B122A | 2016-03-29 @ 3:00 pm | 2016-04-01 @ 2:00 pm | 1.2 ± 0.3 | 2016-04-05 |
| 7747845 | B122B | 2016-03-29 @ 3:00 pm | 2016-04-01 @ 11:00 am | 1.1 ± 0.3 | 2016-04-05 |

April 8, 2016 ** LABORATORY ANALYSIS REPORT **

Radon test result report for:
**SPRINGBROOK HIGH SCHOOL
MAIN**

| Kit # | Room Id | Started | Ended | pCi/L | Analyzed |
|---------|---------|----------------------|-----------------------|-----------|------------|
| 7747892 | C101 | 2016-03-29 @ 5:00 pm | 2016-04-01 @ 11:00 am | 0.6 ± 0.3 | 2016-04-05 |
| 7747898 | C101A | 2016-03-29 @ 5:00 pm | 2016-04-01 @ 11:00 am | 2.3 ± 0.3 | 2016-04-05 |
| 7747900 | C101B | 2016-03-29 @ 5:00 pm | 2016-04-01 @ 12:00 pm | 2.8 ± 0.4 | 2016-04-05 |
| 7747889 | C101E | 2016-03-29 @ 5:00 pm | 2016-04-01 @ 12:00 pm | 2.7 ± 0.4 | 2016-04-05 |
| 7747894 | C101G | 2016-03-29 @ 5:00 pm | 2016-04-01 @ 12:00 pm | 2.3 ± 0.3 | 2016-04-05 |
| 7747875 | C101J | 2016-03-29 @ 5:00 pm | 2016-04-01 @ 11:00 am | < 0.3 | 2016-04-05 |
| 7747891 | C101K | 2016-03-29 @ 5:00 pm | 2016-04-01 @ 12:00 pm | 2.4 ± 0.4 | 2016-04-05 |
| 7747899 | C101L | 2016-03-29 @ 5:00 pm | 2016-04-01 @ 12:00 pm | 2.0 ± 0.3 | 2016-04-05 |
| 7747883 | C101M | 2016-03-29 @ 5:00 pm | 2016-04-01 @ 11:00 am | 2.5 ± 0.4 | 2016-04-05 |
| 7747897 | C101O | 2016-03-29 @ 5:00 pm | 2016-04-01 @ 12:00 pm | 2.1 ± 0.3 | 2016-04-05 |
| 7747876 | C101R | 2016-03-29 @ 5:00 pm | 2016-04-01 @ 11:00 am | 2.3 ± 0.3 | 2016-04-05 |
| 7747885 | C101S | 2016-03-29 @ 5:00 pm | 2016-04-01 @ 12:00 pm | 1.8 ± 0.3 | 2016-04-05 |
| 7747864 | C102A | 2016-03-29 @ 4:00 pm | 2016-04-01 @ 2:00 pm | 2.5 ± 0.4 | 2016-04-05 |
| 7747838 | C102B | 2016-03-29 @ 4:00 pm | 2016-04-01 @ 2:00 pm | 2.4 ± 0.3 | 2016-04-05 |
| 7747848 | C102B | 2016-03-29 @ 4:00 pm | 2016-04-01 @ 2:00 pm | 2.9 ± 0.4 | 2016-04-05 |
| 7747853 | C102B | 2016-03-29 @ 4:00 pm | 2016-04-01 @ 2:00 pm | < 0.3 | 2016-04-05 |
| 7747856 | C102D | 2016-03-29 @ 4:00 pm | 2016-04-01 @ 2:00 pm | 2.6 ± 0.3 | 2016-04-05 |
| 7747855 | C102G | 2016-03-29 @ 4:00 pm | 2016-04-01 @ 2:00 pm | 3.5 ± 0.4 | 2016-04-05 |
| 7747511 | C103 | 2016-03-29 @ 2:00 pm | 2016-04-01 @ 12:00 pm | 2.0 ± 0.3 | 2016-04-05 |
| 7747512 | C103 | 2016-03-29 @ 2:00 pm | 2016-04-01 @ 12:00 pm | 2.3 ± 0.4 | 2016-04-05 |
| 7747567 | C103A | 2016-03-29 @ 6:00 pm | 2016-04-01 @ 12:00 pm | 2.2 ± 0.4 | 2016-04-05 |
| 7747559 | C103D | 2016-03-29 @ 6:00 pm | 2016-04-01 @ 12:00 pm | 3.6 ± 0.4 | 2016-04-05 |
| 7747568 | C103E | 2016-03-29 @ 5:00 pm | 2016-04-01 @ 5:00 pm | 4.2 ± 0.4 | 2016-04-05 |
| 7747573 | C103E | 2016-03-29 @ 6:00 pm | 2016-04-01 @ 12:00 pm | 4.6 ± 0.4 | 2016-04-05 |
| 7747557 | C103H | 2016-03-29 @ 6:00 pm | 2016-04-01 @ 12:00 pm | 2.6 ± 0.4 | 2016-04-05 |
| 7747565 | D104 | 2016-03-29 @ 6:00 pm | 2016-04-01 @ 2:00 pm | 6.7 ± 0.4 | 2016-04-05 |
| 7747566 | D104 | 2016-03-29 @ 6:00 pm | 2016-04-01 @ 2:00 pm | 6.2 ± 0.4 | 2016-04-05 |
| 7747822 | D104E | 2016-03-29 @ 6:00 pm | 2016-04-01 @ 2:00 pm | 5.8 ± 0.4 | 2016-04-05 |
| 7747572 | D104F | 2016-03-29 @ 6:00 pm | 2016-04-01 @ 2:00 pm | 2.4 ± 0.4 | 2016-04-05 |
| 7747564 | D107 | 2016-03-29 @ 6:00 pm | 2016-04-01 @ 3:00 pm | 1.2 ± 0.3 | 2016-04-05 |
| 7747546 | D107G | 2016-03-29 @ 6:00 pm | 2016-04-01 @ 3:00 pm | 1.9 ± 0.3 | 2016-04-05 |
| 7747569 | D107G | 2016-03-29 @ 6:00 pm | 2016-04-01 @ 3:00 pm | 2.4 ± 0.3 | 2016-04-05 |
| 7747570 | D107G | 2016-03-29 @ 6:00 pm | 2016-04-01 @ 3:00 pm | < 0.3 | 2016-04-05 |
| 7747816 | E105 | 2016-03-29 @ 2:00 pm | 2016-04-01 @ 1:00 pm | 1.6 ± 0.3 | 2016-04-05 |
| 7747502 | E106 | 2016-03-29 @ 2:00 pm | 2016-04-01 @ 1:00 pm | 1.2 ± 0.3 | 2016-04-05 |
| 7747503 | E106 | 2016-03-29 @ 2:00 pm | 2016-04-01 @ 1:00 pm | < 0.3 | 2016-04-05 |
| 7747515 | E106A | 2016-03-29 @ 2:00 pm | 2016-04-01 @ 1:00 pm | 1.1 ± 0.3 | 2016-04-05 |

April 8, 2016 **** LABORATORY ANALYSIS REPORT ****

Radon test result report for:
**SPRINGBROOK HIGH SCHOOL
 MAIN**

| Kit # | Room Id | Started | Ended | pCi/L | Analyzed |
|---------|---------|-----------------------|-----------------------|-----------|------------|
| 7747837 | E107 | 2016-03-29 @ 4:00 pm | 2016-04-01 @ 3:00 pm | 1.0 ± 0.3 | 2016-04-05 |
| 7747513 | E108 | 2016-03-29 @ 2:00 pm | 2016-04-01 @ 1:00 pm | 1.0 ± 0.3 | 2016-04-05 |
| 7747509 | E108B | 2016-03-29 @ 2:00 pm | 2016-04-01 @ 1:00 pm | 1.1 ± 0.3 | 2016-04-05 |
| 7747505 | E109 | 2016-03-29 @ 2:00 pm | 2016-04-01 @ 1:00 pm | 0.7 ± 0.3 | 2016-04-05 |
| 7747514 | E110 | 2016-03-29 @ 2:00 pm | 2016-04-01 @ 1:00 pm | 1.0 ± 0.3 | 2016-04-05 |
| 7747507 | E111 | 2016-03-29 @ 2:00 pm | 2016-04-01 @ 1:00 pm | < 0.3 | 2016-04-05 |
| 7747508 | E111 | 2016-03-29 @ 2:00 pm | 2016-04-01 @ 1:00 pm | 1.0 ± 0.3 | 2016-04-05 |
| 7747510 | E111 | 2016-03-29 @ 2:00 pm | 2016-04-01 @ 1:00 pm | 1.3 ± 0.3 | 2016-04-05 |
| 7747529 | E113 | 2016-03-29 @ 2:00 pm | 2016-04-01 @ 1:00 pm | 0.6 ± 0.3 | 2016-04-05 |
| 7747504 | E114 | 2016-03-29 @ 2:00 pm | 2016-04-01 @ 1:00 pm | 0.6 ± 0.3 | 2016-04-05 |
| 7747518 | E115 | 2016-03-29 @ 2:00 pm | 2016-04-01 @ 3:00 pm | 1.2 ± 0.3 | 2016-04-05 |
| 7747541 | E116A | 2016-03-29 @ 1:00 pm | 2016-04-01 @ 1:00 pm | 1.3 ± 0.3 | 2016-04-05 |
| 7747516 | E118 | 2016-03-29 @ 1:00 pm | 2016-04-01 @ 12:00 pm | 1.6 ± 0.3 | 2016-04-05 |
| 7747545 | F101 | 2016-03-29 @ 1:00 pm | 2016-04-01 @ 12:00 pm | < 0.3 | 2016-04-05 |
| 7747547 | F101 | 2016-03-29 @ 1:00 pm | 2016-04-01 @ 12:00 pm | 0.7 ± 0.3 | 2016-04-05 |
| 7747551 | F101 | 2016-03-29 @ 1:00 pm | 2016-04-01 @ 12:00 pm | 0.7 ± 0.3 | 2016-04-05 |
| 7747544 | F102 | 2016-03-29 @ 1:00 pm | 2016-04-01 @ 12:00 pm | 2.0 ± 0.3 | 2016-04-05 |
| 7747556 | F103 | 2016-03-29 @ 1:00 pm | 2016-04-01 @ 12:00 pm | 1.3 ± 0.3 | 2016-04-05 |
| 7747549 | F105 | 2016-03-29 @ 1:00 pm | 2016-04-01 @ 12:00 pm | 1.7 ± 0.3 | 2016-04-05 |
| 7747555 | F106 | 2016-03-29 @ 1:00 pm | 2016-04-01 @ 12:00 pm | 1.0 ± 0.3 | 2016-04-05 |
| 7747550 | F107 | 2016-03-29 @ 1:00 pm | 2016-04-01 @ 12:00 pm | 0.7 ± 0.3 | 2016-04-05 |
| 7747519 | F108 | 2016-03-29 @ 1:00 pm | 2016-04-01 @ 12:00 pm | < 0.3 | 2016-04-05 |
| 7747534 | F109 | 2016-03-29 @ 1:00 pm | 2016-04-01 @ 12:00 pm | < 0.3 | 2016-04-05 |
| 7747543 | F109 | 2016-03-29 @ 1:00 pm | 2016-04-01 @ 12:00 pm | 0.8 ± 0.3 | 2016-04-05 |
| 7747525 | F109 | 2016-03-29 @ 1:00 pm | 2016-04-01 @ 12:00 pm | 0.6 ± 0.3 | 2016-04-05 |
| 7747527 | F113 | 2016-03-29 @ 1:00 pm | 2016-04-01 @ 12:00 pm | 0.8 ± 0.3 | 2016-04-05 |
| 7747521 | F113A | 2016-03-29 @ 1:00 pm | 2016-04-01 @ 12:00 pm | 0.6 ± 0.3 | 2016-04-05 |
| 7747869 | G1 | 2016-03-29 @ 4:00 pm | 2016-04-01 @ 1:00 pm | 1.4 ± 0.3 | 2016-04-05 |
| 7747539 | G101 | 2016-03-29 @ 1:00 pm | 2016-04-01 @ 12:00 pm | 1.0 ± 0.3 | 2016-04-05 |
| 7747524 | G101A | 2016-03-29 @ 1:00 pm | 2016-04-01 @ 12:00 pm | 1.3 ± 0.3 | 2016-04-05 |
| 7747528 | G105 | 2016-03-29 @ 1:00 pm | 2016-04-01 @ 12:00 pm | 1.0 ± 0.3 | 2016-04-05 |
| 7747520 | G106A | 2016-03-29 @ 1:00 pm | 2016-04-01 @ 12:00 pm | 0.8 ± 0.3 | 2016-04-05 |
| 7747530 | G106B | 2016-03-29 @ 12:00 pm | 2016-04-01 @ 12:00 pm | 1.4 ± 0.3 | 2016-04-05 |
| 7747552 | G108 | 2016-03-29 @ 12:00 pm | 2016-04-01 @ 12:00 pm | 2.5 ± 0.3 | 2016-04-05 |
| 7747523 | G109 | 2016-03-29 @ 12:00 pm | 2016-04-01 @ 12:00 pm | 2.0 ± 0.4 | 2016-04-05 |
| 7747548 | G110L | 2016-03-29 @ 12:00 pm | 2016-04-01 @ 12:00 pm | 2.8 ± 0.4 | 2016-04-05 |
| 7747540 | G111 | 2016-03-29 @ 12:00 pm | 2016-04-01 @ 12:00 pm | 7.0 ± 0.4 | 2016-04-05 |

April 8, 2016 ** LABORATORY ANALYSIS REPORT **

Radon test result report for:
**SPRINGBROOK HIGH SCHOOL
MAIN**

| Kit # | Room Id | Started | Ended | pCi/L | Analyzed |
|---------|---------|-----------------------|-----------------------|-----------|------------|
| 7747532 | G111A | 2016-03-29 @ 12:00 pm | 2016-04-01 @ 12:00 pm | 7.3 ± 0.5 | 2016-04-05 |
| 7747526 | G111A | 2016-03-29 @ 12:00 pm | 2016-04-01 @ 12:00 pm | 6.8 ± 0.4 | 2016-04-05 |
| 7747531 | G111A | 2016-03-29 @ 12:00 pm | 2016-04-01 @ 12:00 pm | < 0.3 | 2016-04-05 |
| 7747882 | G12 | 2016-03-29 @ 4:00 pm | 2016-04-01 @ 1:00 pm | 5.5 ± 0.4 | 2016-04-05 |
| 7747881 | G2 | 2016-03-29 @ 4:00 pm | 2016-04-01 @ 1:00 pm | 0.9 ± 0.3 | 2016-04-05 |
| 7747886 | G206 | 2016-03-29 @ 5:00 pm | 2016-04-01 @ 1:00 pm | 1.1 ± 0.3 | 2016-04-05 |
| 7747870 | G207 | 2016-03-29 @ 5:00 pm | 2016-04-01 @ 1:00 pm | < 0.3 | 2016-04-05 |
| 7747871 | G207 | 2016-03-29 @ 5:00 pm | 2016-04-01 @ 1:00 pm | 0.8 ± 0.3 | 2016-04-05 |
| 7747872 | G207 | 2016-03-29 @ 5:00 pm | 2016-04-01 @ 1:00 pm | 1.1 ± 0.3 | 2016-04-05 |
| 7747887 | G208 | 2016-03-29 @ 5:00 pm | 2016-04-01 @ 1:00 pm | 1.4 ± 0.3 | 2016-04-05 |
| 7747893 | G209 | 2016-03-29 @ 5:00 pm | 2016-04-01 @ 1:00 pm | 1.3 ± 0.3 | 2016-04-05 |
| 7747888 | G210 | 2016-03-29 @ 5:00 pm | 2016-04-01 @ 1:00 pm | 3.2 ± 0.4 | 2016-04-05 |
| 7747833 | G307 | 2016-03-29 @ 4:00 pm | 2016-04-01 @ 1:00 pm | 0.9 ± 0.3 | 2016-04-05 |
| 7747877 | G307 | 2016-03-29 @ 4:00 pm | 2016-04-01 @ 1:00 pm | < 0.3 | 2016-04-05 |
| 7747880 | G312 | 2016-03-29 @ 5:00 pm | 2016-04-01 @ 1:00 pm | 0.7 ± 0.3 | 2016-04-05 |
| 7747884 | G313 | 2016-03-29 @ 4:00 pm | 2016-04-01 @ 1:00 pm | 0.9 ± 0.3 | 2016-04-05 |
| 7747878 | G314 | 2016-03-29 @ 5:00 pm | 2016-04-01 @ 1:00 pm | 0.8 ± 0.3 | 2016-04-05 |

April 8, 2016 **** LABORATORY ANALYSIS REPORT ****

Radon test result report for:
OFFICE BLANKS
Phase 13

| Kit # | Room Id | Started | Ended | pCi/L | Analyzed |
|--------------|----------------|----------------------|----------------------|--------------|-----------------|
| 7726894 | 0 | 2016-03-29 @ 3:00 pm | 2016-04-01 @ 3:00 pm | < 0.3 | 2016-04-05 |
| 7747563 | 0 | 2016-03-29 @ 3:00 pm | 2016-04-01 @ 3:00 pm | < 0.3 | 2016-04-05 |
| 7747791 | 0 | 2016-03-29 @ 3:00 pm | 2016-04-01 @ 3:00 pm | < 0.3 | 2016-04-05 |
| 7747792 | 0 | 2016-03-29 @ 3:00 pm | 2016-04-01 @ 3:00 pm | < 0.3 | 2016-04-05 |

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

April 8, 2016 **** LABORATORY ANALYSIS REPORT ****

Radon test result report for:
TRANSIT BLANKS
Phase 13

| Kit # | Room Id | Started | Ended | pCi/L | Analyzed |
|--------------|----------------|----------------------|----------------------|--------------|-----------------|
| 7747741 | 1 | 2016-03-29 @ 3:00 pm | 2016-04-01 @ 3:00 pm | < 0.3 | 2016-04-05 |
| 7747742 | 2 | 2016-03-29 @ 3:00 pm | 2016-04-01 @ 3:00 pm | < 0.3 | 2016-04-05 |
| 7726876 | 3 | 2016-03-29 @ 3:00 pm | 2016-04-01 @ 3:00 pm | < 0.3 | 2016-04-05 |
| 7726875 | 4 | 2016-03-29 @ 3:00 pm | 2016-04-01 @ 3:00 pm | < 0.3 | 2016-04-05 |

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

March 24, 2016 **** LABORATORY ANALYSIS REPORT ****

Radon test result report for:
MCPS
Spike Sample Results

| Kit # | Room Id | Started | Ended | pCi/L | Analyzed |
|---------|---------|----------------------|----------------------|------------|------------|
| 7735295 | 1 | 2016-03-18 @ 1:00 pm | 2016-03-21 @ 1:00 pm | 30.0 ± 2.0 | 2016-03-24 |
| 7735289 | 2 | 2016-03-18 @ 1:00 pm | 2016-03-21 @ 1:00 pm | 29.9 ± 2.0 | 2016-03-24 |
| 7735274 | 3 | 2016-03-18 @ 1:00 pm | 2016-03-21 @ 1:00 pm | 25.6 ± 1.7 | 2016-03-24 |
| 7735278 | 4 | 2016-03-18 @ 1:00 pm | 2016-03-21 @ 1:00 pm | 26.2 ± 1.8 | 2016-03-24 |
| 7735299 | 5 | 2016-03-18 @ 1:00 pm | 2016-03-21 @ 1:00 pm | 28.3 ± 1.9 | 2016-03-24 |
| 7735293 | 6 | 2016-03-18 @ 1:00 pm | 2016-03-21 @ 1:00 pm | 31.0 ± 2.0 | 2016-03-24 |

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 174430

NOMINAL Conditions: Radon Conc 26.1 pCi/L Rel. Hum 48.8 % Temp. 79.1 F

Date Start: 3/18/16 Date Stop: 3/21/16 Date Start: _____ Date Stop: _____

Time Start: 1250 Time Stop: 1250 Time Start: _____ Time Stop: _____

Device No.'s: (6) Char. Cans Device No.'s: _____

3029154 thru 3029157, _____

3029083, 3029086 _____

FS Right

Date Start: 3/18/16 Date Stop: 3/21/16 Date Start: _____ Date Stop: _____

Time Start: 1250 Time Stop: 1250 Time Start: _____ Time Stop: _____

Device No.'s: (6) Char. Bags Device No.'s: _____

7735299, 7735293, 7735295, _____

7735274, 7735278, 7735289 _____

FS Right

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

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

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

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



Radon Test Kit Chain of Custody

Project Name: MCPS Radon Phase 13

Name of Schools:

1. Northwood HS
2. South Lake ES
3. Whetstone ES
4. Springbrook HS
5. Kensington Parkwood ES

| | Date | Initials |
|----------------------------------|---------|----------|
| Radon Test Kits Deployed | 3/29/16 | JM |
| Radon Test Kits Collected | 4/1/16 | JM |
| Radon Test Kits Shipped to Lab* | 4/1/16 | JM |
| Radon Test Kits Received by Lab* | 4/5/16 | JM |

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

RADON SCREENING SURVEY – FOLLOW-UP SPRINGBROOK HIGH SCHOOL
201 Valley Brook Drive, Silver Spring, Maryland 20904

EXECUTIVE SUMMARY

| | |
|--|--|
| Date of Test Report: | 9 February 2016 |
| Round of Testing: | Initial Follow-up Post Remediation |
| # rooms tested: | 16 |
| # rooms \geq 4.0 pCi/L: | 8 |
| Low Value: | 1.0 pCi/L |
| High Value: | 11.3 pCi/L |
| Confirmed Rooms \geq 4.0 pCi/L US EPA Action Level | Classroom B109/110 (5.5 pCi/L) Office B109A (11.3 pCi/L) Office B109B (5.7 pCi/L) Classroom B104 (4.9 pCi/L) Classroom E111 (7.7 pCi/L) Daycare E108 (4.1 pCi/L) Classroom F105 (7.9 pCi/L) Auditorium Office C103H (4.0 pCi/L) |

| Summary of Sampling Events \geq 4.0 pCi/L | | | |
|---|--------------------|---------------------|----------------|
| Room | December 8-11 2015 | December 28-31 2015 | Average Result |
| B109/110 | 6.1 pCi/L | 5.0 pCi/L | 5.6 pCi/L |
| B109A | 14.6 pCi/L | 11.3 pCi/L | 12.9 pCi/L |
| B109B | 5.5 pCi/L | 5.7 pCi/L | 5.6 pCi/L |
| B104 | 4.6 pCi/L | 4.9 pCi/L | 4.7 pCi/L |
| E111 | 8.9 pCi/L | 7.7 pCi/L | 8.3 pCi/L |
| E108 | 4.7 pCi/L | 4.1 pCi/L | 4.4 pCi/L |
| F105 | 6.3 pCi/L | 7.9 pCi/L | 7.1 pCi/L |
| C103H | N/A | 4.0 pCi/L | 4.0 pCi/L |
| F106 | 4.3 pCi/L | 1.2 pCi/L | 2.8 pCi/L |
| F107 | 4.4 pCi/L | 2.9 pCi/L | 3.7 pCi/L |
| G108 | 4.8 pCi/L | 2.7 pCi/L | 3.8 pCi/L |

At the request of Montgomery County Public Schools (MCPS), Leidos conducted a follow-up radon gas screening survey at Springbrook High School (HS) from December 28-31 in accordance with the protocols in the United States Environmental Protection Agency (USEPA) *Radon Measurement in Schools* (July 1993). The survey involved re-sampling at ten rooms containing radon gas detected above the USEPA Action Level of 4 pCi/L during the previous sampling event (conducted December 8-11). The locations of these ten rooms are shown in Figure 1. Radon gas samples were also collected at ten percent of the 29 occupied classrooms and offices (i.e., three) on the second floor of Springbrook HS. The locations of these three rooms are shown in Figure 2. Also, at the request of MCPS, the Boys Locker Room (BLR) and the Auditorium Theater Office (C103H) were sampled over December 28-31. Finally, Classroom E115 was re-tested because the sample from the previous event (December 8-11) had been tampered with. The locations of these three samples are shown in Figure 1.

The radon sampling survey followed the USEPA protocols including placing a dual sampling device in each room selected as a sampling location. Each device or kit contains two activated charcoal adsorption devices, set at a distance of 4 inches apart. A photograph of the radon sampling kit is shown in Figure 3. Each radon sampling kit was placed at least 20 inches above the ground surface, and was usually placed on top of a surface such as a 5-foot file cabinet or 6-foot shelf. The radon sampling kits were also placed away from exterior walls and windows, out of direct sunlight, and away from HVAC vents as much as possible.

The radon test kits were installed on Monday morning and were then picked up on early Thursday morning (i.e., approximately 70 hours later). According to the Building Services personnel, the HVAC system was functioning in the school during the testing period, and no exterior windows were open. The average outdoor temperature (48 degrees F), humidity (86%), wind speed (4 mph), and total precipitation (0.00 inches) during the December 28-31 testing period were obtained from Weather Underground (www.weatherunderground.com).

In accordance with the USEPA protocols, the ten rooms exceeding the radon gas Action Level during the previous sampling event (December 8-11) were re-tested under similar conditions. These included four rooms in the B-Wing (Classroom B109/110 with the adjacent B109A and B109B offices and Classroom B104), two rooms in the E-Wing (Classroom E111 and the E108 Daycare), three rooms in the F-Wing (Classrooms F105, F106, and F107), and one room

in the G-Wing (Classroom G108). In addition, one room (Classroom E115) had sampling devices which were determined to have been tampered with (i.e., moved and partially closed by someone) and retesting in this room was performed over the December 28-31 period. In addition, in accordance with the American Association of Radon Scientist and Technologist (AARST) recommendations, ten percent of the 29 occupied classrooms and offices on the second floor (i.e., three) were sampled. One second floor sample was collected in each wing (i.e, E-Wing, F-Wing, and G-Wing) and occupied classrooms above rooms with elevated radon gas concentrations (i.e., E209, F206, and G208) were selected for sampling. Finally, at the request of MCPS, the Boys Locker Room (BLR) in the lower level and the Auditorium Theater Office (C103H) on the first floor were sampled over December 28-31, even though these areas are not occupied on a regular basis.

The radon test kits were shipped to EMSL Analytical, Inc. in Cinnaminson, NJ, on 31 December 2015 for analysis by liquid scintillation counter using the USEPA testing protocols for testing Radon in Air. EMSL is accredited by the National Radon Safety Board (NRSB) under ARL6006 for radon analysis and the radon test kits are approved devices by the NRSB under #12199. A total of 19 paired devices were submitted for analysis, including the screening samples for 16 sampling locations (i.e., ten confirmation re-testing rooms, one tampered re-testing room, three representative second floor rooms, and two MCPS requested rooms), two duplicate samples, and one field blank. The Chain of Custody for the shipment of the radon test kits is shown in Appendix B. The laboratory analysis results are shown in Appendix C and are summarized in the table in Appendix A.

The results of the re-sampling for the ten confirmation rooms are summarized in Table 1. As shown in this table, seven out of the ten rooms which exceeded the USEPA Action Level during previous sampling event also had an average concentration above the Action Level over the two sampling events (i.e., December 8-11 and December 28-31) and require further action to mitigate these concentrations. The remaining three rooms which had an overall average less than the Action Level (i.e., F106, F107, and G108) do not require immediate action but should be re-tested within two years in accordance with the USEPA protocols. In addition, for the room that had a tampered test kit (i.e., E115) the re-testing was below the USEPA Action Level and no further action is necessary at this room.

For the two rooms requested by MCPS, the Boys Locker Room in the Lower Level had a result of 2.8 pCi/L which is below the USEPA Action Level. For the Auditorium Theater Office (C103H), the radon gas screening result was 4.0 pCi/L which is equal to the USEPA Action Level. Normally, this would require a second set of radon gas samples for confirmation, but the Auditorium Office is not normally occupied by students or teachers on a regular basis during the school week which limits the potential exposure.

For the three classrooms on the second floor, none of the rooms had radon results above the USEPA Action Level. As a result, mitigation measures should be confined to the seven first floor rooms which exceed the USEPA Action Levels.

As part of the USEPA Quality Assurance (QA) procedures, Leidos collected two duplicates (covering over 10% of the 16 rooms sampled) and one field blank (representing over 5% of the 16 rooms sampled). The two duplicates had average relative percent differences (ARPDs) within the QA limit of 25% with SB 1C at 4% and SB 59 at 10%. In addition, the field blank (SB 62) was less than the QA limit of 1.0 pCi/L.

Table 1 – Summary of December 8-11 and December 28-31 Sampling Events (in pCi/L)

| Room | December 8-11 Max | December 28-31 Max | Average of Both Events | Notes and Recommendation |
|-------------|------------------------------|-------------------------------|-----------------------------------|---------------------------------------|
| B109/110 | 6.1 | 5.0 | 5.6 | Confirmed Action Level Exceedance |
| B019A | 14.6 | 11.3 | 12.9 | Confirmed Action Level Exceedance |
| B109B | 5.5 | 5.7 | 5.6 | Confirmed Action Level Exceedance |
| B104 | 4.6 | 4.9 | 4.7 | Confirmed Action Level Exceedance |
| E108 | 4.7 | 4.1 | 4.4 | Confirmed Action Level Exceedance |
| E111 | 8.9 | 7.7 | 8.3 | Confirmed Action Level Exceedance |
| F105 | 6.3 | 7.9 | 7.1 | Confirmed Action Level Exceedance |
| F106 | 4.3 | 1.2 | 2.8 | Re-test in two years |
| F107 | 4.4 | 2.9 | 3.7 | Re-test in two years |
| G108 | 4.8 | 2.7 | 3.8 | Re-test in two years |
| E115 | 0.4 | 2.5 | 1.5 | Initial sample had been tampered with |

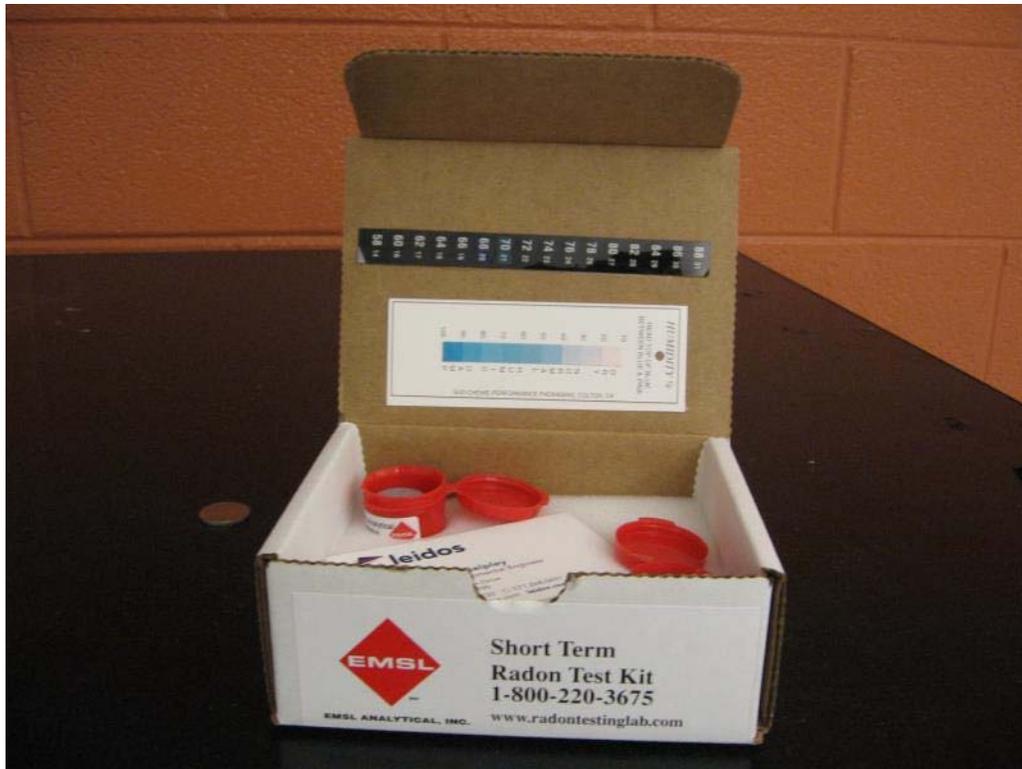


Figure 3. Photograph of Typical Radon Test Kit With Dual Devices

Appendix A. Radon Survey Results

| Unique Sample Identifier | Sample Location Description (Room Number, Area) | Sample Result |
|--------------------------|---|---------------|
| 230151 | SB 1B - Classroom B110/109 - South side, 6 ft shelf | 4.8 |
| 230323 | SB 1B - Classroom B110/109 - South side, 6 ft shelf | 5.0 |
| 230213 | SB 1C - Classroom B110/109 - South side, 6 ft shelf | 4.4 |
| 230131 | SB 1C - Classroom B110/109 - South side, 6 ft shelf | 4.9 |
| 231863 | SB 2B - Office B109B, South Side, 5 ft shelf | 5.7 |
| 231813 | SB 2B - Office B109B, South Side, 5 ft shelf | 5.6 |
| 230189 | SB 53B - Classroom B104, South Side, 6 ft shelf | 4.9 |
| 230340 | SB 53B - Classroom B104, South Side, 6 ft shelf | 4.3 |
| 231835 | SB 3B - Office B109A, East side, 6 ft shelf | 11.3 |
| 231785 | SB 3B - Office B109A, East side, 6 ft shelf | 10.8 |
| 231833 | SB 56 - Auditorium Office C-103-H, North side, 4 ft shelf | 4.2 |

| Unique Sample Identifier | Sample Location Description (Room Number, Area) | Sample Result |
|--------------------------|---|---------------|
| 231837 | SB 56 - Auditorium Office C-103-H, North side, 4 ft shelf | 3.8 |
| 231832 | SB 18B - Classroom G108, NW side, 6 ft shelf | 2.7 |
| 231831 | SB 18B - Classroom G108, NW side, 6 ft shelf | 2.5 |
| 231741 | SB 22B - Lab F106, East Side, 6 ft Shelf | 1.2 |
| 231822 | SB 22B - Lab F106, East Side, 6 ft Shelf | 1.0 |
| 230250 | SB 23B - Classroom F107, NE Side, On teacher computer at 3 ft | 2.9 |
| 230239 | SB 23B - Classroom F107, NE Side, On teacher computer at 3 ft | 2.9 |
| 230103 | SB 24B - Classroom F105, SW Side, 5 ft File Cabinet | 7.7 |
| 230228 | SB 24B - Classroom F105, SW Side, 5 ft File Cabinet | 7.9 |
| 230178 | SB 57 - Boys Locker Room D-1, SE side, 5 ft locker | 2.6 |
| 230334 | SB 57 - Boys Locker Room D-1, SE side, 5 ft locker | 2.9 |

| Unique Sample Identifier | Sample Location Description (Room Number, Area) | Sample Result |
|--------------------------|---|---------------|
| 231874 | SB 58 - Classroom E209, SE side, 3 ft table | 1.7 |
| 231734 | SB 58 - Classroom E209, SE side, 3 ft table | 1.9 |
| 230290 | SB 59 - Classroom E209, SE side, 3 ft table | 2.0 |
| 230123 | SB 59 - Classroom E209, SE side, 3 ft table | 2.0 |
| 231869 | SB 60 - Classroom F206, NE side, 3 ft table | 1.1 |
| 231827 | SB 60 - Classroom F206, NE side, 3 ft table | 1.1 |
| 230198 | SB 61 - Classroom G208, NW side, 6 ft shelf | 1.3 |
| 230128 | SB 61 - Classroom G208, NW side, 6 ft shelf | 1.6 |
| 231790 | SB 34B - Daycare E108, SE Side, 6 ft Shelf | 4.1 |
| 231866 | SB 34B - Daycare E108, SE Side, 6 ft Shelf | 3.1 |
| 231781 | SB 33B - Classroom E111, SE Side, 6.5 ft Shelf | 7.6 |

| Unique Sample Identifier | Sample Location Description (Room Number, Area) | Sample Result |
|--------------------------|---|---------------|
| 231865 | SB 33B - Classroom E111, SE Side, 6.5 ft Shelf | 7.7 |
| 231807 | SB 8B - Classroom E115, SE Side, 3 ft table | 2.5 |
| 231794 | SB 8B - Classroom E115, SE Side, 3 ft table | 2.3 |
| 231814 | SB 62 - Field Blank | 0.0 |
| 231888 | SB 62 - Field Blank | -0.2 |

Appendix B. Chain of Custody



**CHAIN OF CUSTODY
RADON LABORATORY SERVICES
(COMMERCIAL USE)**

EMSL ANALYTICAL, INC.
200 ROUTE 130 NORTH
CINNAMINSON, NJ 08077
PHONE: 800-220-3675
FAX: 856-786-0327

EMSL ANALYTICAL, INC.

EMSL Job #: ~~38150776~~ CINNAMINSON, N.J.

2016 JAN -5 P 2:30

Company Information

Company Name: LEIDOS
 EMSL Account #: LEID42 3day
 Contact: John Whelpley
 Address: 11951 Freedom Dr.
 City: Reston
 State: VA Zip Code: 20190
 Phone: 571-268-0697
 Fax: -
 Email: whelpley.j@leidos.com

Project / Property Information:

Name: SPRINGBROOK HS
 Address: 201 Valley Brook Drive
 City: Silver Spring
 Municipality: - County: Montgomery
 State: MD Zip Code: 20904
 PO#/Project#: 316041.00.00.001
 Please check box if this is a Post Mitigation Test
 Technician Name: John Whelpley
 Technician Certification #: -
 Technician Signature: John Whelpley

Disclaimer

In no event shall EMSL be liable for indirect, special, consequential, or incidental damages for loss of profit or goodwill regardless of the negligence (either sole or concurrent) of EMSL and whether EMSL has been informed of the possibility of such damages arising out of or in connection with EMSL's services there under or the delivery, use, reliance upon or interpretation of test results by client or third party. We accept no legal responsibility for the purposes for which the client uses the test results. In no event shall EMSL be liable to a client or any third party, whether based upon theories of tort, contract or any other legal or equitable theory, in excess of the amount paid to EMSL by client thereafter.

| Box Number | Device Number | Location | Exposure Period Beginning Date and Time | Exposure Period Ending Date and Time | Temperature, °F | Humidity, % |
|------------|---------------|--|---|--------------------------------------|-----------------|-------------|
| SP10 | 136272 | Classroom 0110/0109 S Side, 6' Shelf | 12/28/15 0939 | 12/31/15 808 | 70° | 40% |
| " | 230323 | " | " | " | " | " |
| SP1C | 136271 | D | 12/28/15 0940 | 12/31/15 809 | 70° | 40% |
| " | 230131 | D | " | " | " | " |
| SP20 | 136303 | Office 01090 S Side, 5' Shelf | 12/28/15 0944 | 12/31/15 810 | 68° | 50% |
| " | 231813 | " | " | " | " | " |
| SP5B | 136273 | Classroom 0109 S Side, 6' Shelf | 12/28/15 0951 | 12/31/15 814 | 68° | 60% |
| " | 230340 | " | " | " | " | " |
| SP3W | 136298 | Office 0109A E Side, 6' Shelf | 12/28/15 0959 | 12/31/15 811 | 68° | 60% |
| " | 231785 | " | " | " | " | " |
| SP56 | 136302 | Auditorium Office C-103-H N Side, 4' Shelf | 12/28/15 1010 | 12/31/15 752 | 68° | 40% |
| " | 231837 | " | " | " | " | " |

Relinquished By: John Whelpley 1400 to UPS
 Received By: _____

381600078



**CHAIN OF CUSTODY
RADON LABORATORY SERVICES
(COMMERCIAL USE)**

EMSL ANALYTICAL, INC.
200 ROUTE 130 NORTH
CINNAMINSON, NJ 08077
PHONE: 800-220-3675
FAX: 856-786-0327

EMSL Job #: 381509976

EMSL ANALYTICAL, INC.

| Box Number | Device Number | Location | Exposure Period Beginning Date and Time | Exposure Period Ending Date and Time | Temperature, °F | Humidity, % |
|------------|---------------|---|---|--------------------------------------|-----------------|-------------|
| SO180 | 136299 | Classroom G108 NW Side, 6' Shelf | 12/28/15 1016 | 12/31/15 742 | 78° | 40% |
| " | 231831 | " | " | " | " | " |
| SO220 | 136296 | Lab F106 E Side, 6' Shelf | 12/28/15 1019 | 12/31/15 745 | 68° | 40% |
| " | 231822 | " | " | " | " | " |
| SO230 | 136274 | Classroom F107 NE Side, 3' Table | 12/28/15 1022 | 12/31/15 746 | 68° | 40% |
| " | 230239 | " | " | " | " | " |
| SO240 | 136269 | Classroom F105 SW Side, 5' File Cabinet | 12/28/15 1026 | 12/31/15 747 | 68° | 50% |
| " | 230228 | " | " | " | " | " |
| SO57 | 136275 | Boys Locker Room D-1 SW Side, 5' Locker | 12/28/15 1039 | 12/31/15 726 | 68° | 60% |
| " | 230334 | " | " | " | " | " |
| SO58 | 136295 | Classroom E209 SE Side, 3' Table | 12/28/15 1048 | 12/31/15 734 | 70° | 40% |
| " | 231734 | " | " | " | " | " |
| SO59 | 136276 | D | 12/28/15 1049 | 12/31/15 735 | 70° | 40% |
| " | 230123 | D | " | " | " | " |
| SO60 | 136297 | Classroom F206 NE Side, 3' Table | 12/28/15 1054 | 12/31/15 737 | 66° | 60% |
| " | 231827 | " | " | " | " | " |
| SO61 | 136270 | Classroom G208 NW Side, 6' Shelf | 12/28/15 1058 | 12/31/15 739 | 70° | 40% |
| " | 230128 | " | " | " | " | " |
| SO340 | 136300 | Daycare E108 SE Side, 6' Shelf | 12/28/15 1108 | 12/31/15 729 | 80° | 30% |
| " | 231866 | " | " | " | " | " |
| SO330 | 136301 | Kitchen E111 SE Side, 4' Shelf | 12/28/15 1111 | 12/31/15 731 | 72° | 40% |
| " | 231865 | " | " | " | " | " |
| SO80 | 136304 | Classroom E115 SE Side, 3' Table | 12/28/15 1115 | 12/31/15 803 | 68° | 40% |
| " | 231794 | " | " | " | " | " |
| SO61 | 136294 | P | 12/28/15 1116 | 12/31/15 804 | 72° | 60% |
| " | 231888 | P | " | " | " | " |

Relinquished By: *[Signature]* 1400 to UPS
Received By: *[Signature]*

Appendix C. Laboratory Results

**EMSL Analytical, Inc.**

200 Route 130 North, Cinnaminson, NJ 08077

Phone/Fax: (800) 220-3675 / (856) 786-0327

<http://www.EMSL.com>cinnaminsonradonlab@emsl.com

| | |
|-------------|---------------|
| EMSL Order: | 381600078 |
| CustomerID: | LEID42 |
| CustomerPO: | 316041.00.00. |
| ProjectID: | |

Attn: **John Whelpley**
Leidos Engineering, LLC
11951 Freedom Dr.
Reston, VA 20190

Phone: (571) 268-0697
 Fax:
 Received: 01/05/16 2:30 PM
 Analysis Date: 1/6/2016
 Collected: 12/28/2015

Project: **201 Valley Brook Drive**

Test Site: **Springbrook HS**
201 Valley Brook Drive
Silver Spring, MD 20904

Test Report: Radon in Air Test Results**Samples for EMSL Kit 136272**

| Liquid Scintillation ID | Location | Radon Activity pCi/L | Start | Stop | Temperature F | Humidity % | Sample Type |
|--------------------------|--|-------------------------|--------------------------|--------------------------|------------------|---------------|-------------|
| 230151 381600078-0001 | Classroom B110/B109 S side, 6' shelf | 4.8 | 12/28/2015 9:39:00 AM | 12/31/2015 8:08:00 AM | 70 | 40 | Customer |

Sample Notes:

| | | | | | | | |
|--------------------------|--|---|--------------------------|--------------------------|----|----|----------|
| 230323 381600078-0002 | Classroom B110/B109 S side, 6' shelf | 5 | 12/28/2015 9:39:00 AM | 12/31/2015 8:08:00 AM | 70 | 40 | Customer |
|--------------------------|--|---|--------------------------|--------------------------|----|----|----------|

Sample Notes:**Summary for EMSL Kit 136272 Average Radon Result: 4.9 pCi/L****Samples for EMSL Kit 136271**

| Liquid Scintillation ID | Location | Radon Activity pCi/L | Start | Stop | Temperature F | Humidity % | Sample Type |
|--------------------------|----------|-------------------------|--------------------------|--------------------------|------------------|---------------|-------------|
| 230213 381600078-0003 | D | 4.4 | 12/28/2015 9:40:00 AM | 12/31/2015 8:09:00 AM | 70 | 40 | Customer |

Sample Notes:

| | | | | | | | |
|--------------------------|---|-----|--------------------------|--------------------------|----|----|----------|
| 230131 381600078-0004 | D | 4.9 | 12/28/2015 9:40:00 AM | 12/31/2015 8:09:00 AM | 70 | 40 | Customer |
|--------------------------|---|-----|--------------------------|--------------------------|----|----|----------|

Sample Notes:**Summary for EMSL Kit 136271 Average Radon Result: 4.7 pCi/L****Samples for EMSL Kit 136303**

| Liquid Scintillation ID | Location | Radon Activity pCi/L | Start | Stop | Temperature F | Humidity % | Sample Type |
|--------------------------|-----------------------------------|-------------------------|--------------------------|--------------------------|------------------|---------------|-------------|
| 231863 381600078-0005 | Office B109B, S side, 5' shelf | 5.7 | 12/28/2015 9:44:00 AM | 12/31/2015 8:10:00 AM | 68 | 50 | Customer |

Sample Notes:

| | | | | | | | |
|--------------------------|-----------------------------------|-----|--------------------------|--------------------------|----|----|----------|
| 231813 381600078-0006 | Office B109B, S side, 5' shelf | 5.6 | 12/28/2015 9:44:00 AM | 12/31/2015 8:10:00 AM | 68 | 50 | Customer |
|--------------------------|-----------------------------------|-----|--------------------------|--------------------------|----|----|----------|

Sample Notes:**Summary for EMSL Kit 136303 Average Radon Result: 5.6 pCi/L**

**EMSL Analytical, Inc.**

200 Route 130 North, Cinnaminson, NJ 08077
 Phone/Fax: (800) 220-3675 / (856) 786-0327
<http://www.EMSL.com> cinnaminsonradonlab@emsl.com

EMSL Order: 381600078
 CustomerID: LEID42
 CustomerPO: 316041.00.00.
 ProjectID:

Attn: **John Whelpley**
Leidos Engineering, LLC
11951 Freedom Dr.
Reston, VA 20190

Phone: (571) 268-0697
 Fax:
 Received: 01/05/16 2:30 PM
 Analysis Date: 1/6/2016
 Collected: 12/28/2015

Project: **201 Valley Brook Drive**

Test Site: **Springbrook HS**
201 Valley Brook Drive
Silver Spring, MD 20904

Test Report: Radon in Air Test Results**Samples for EMSL Kit 136273**

| Liquid Scintillation ID | Location | Radon Activity pCi/L | Start | Stop | Temperature F | Humidity % | Sample Type |
|--------------------------|----------------------------------|-------------------------|--------------------------|--------------------------|------------------|---------------|-------------|
| 230189 381600078-0007 | Classroom B104, S side, 6' shelf | 4.9 | 12/28/2015 9:51:00 AM | 12/31/2015 8:14:00 AM | 68 | 60 | Customer |

Sample Notes:

| | | | | | | | |
|--------------------------|----------------------------------|-----|--------------------------|--------------------------|----|----|----------|
| 230340 381600078-0008 | Classroom B104, S side, 6' shelf | 4.3 | 12/28/2015 9:51:00 AM | 12/31/2015 8:14:00 AM | 68 | 60 | Customer |
|--------------------------|----------------------------------|-----|--------------------------|--------------------------|----|----|----------|

Sample Notes:

Summary for EMSL Kit 136273 **Average Radon Result: 4.6 pCi/L**

Samples for EMSL Kit 136298

| Liquid Scintillation ID | Location | Radon Activity pCi/L | Start | Stop | Temperature F | Humidity % | Sample Type |
|--------------------------|--------------------------------|-------------------------|--------------------------|--------------------------|------------------|---------------|-------------|
| 231835 381600078-0009 | Office B109A, E side, 6' shelf | 11.3 | 12/28/2015 9:59:00 AM | 12/31/2015 8:11:00 AM | 68 | 60 | Customer |

Sample Notes:

| | | | | | | | |
|--------------------------|--------------------------------|------|--------------------------|--------------------------|----|----|----------|
| 231785 381600078-0010 | Office B109A, E side, 6' shelf | 10.8 | 12/28/2015 9:59:00 AM | 12/31/2015 8:11:00 AM | 68 | 60 | Customer |
|--------------------------|--------------------------------|------|--------------------------|--------------------------|----|----|----------|

Sample Notes:

Summary for EMSL Kit 136298 **Average Radon Result: 11.1 pCi/L**

Samples for EMSL Kit 136302

| Liquid Scintillation ID | Location | Radon Activity pCi/L | Start | Stop | Temperature F | Humidity % | Sample Type |
|--------------------------|--|-------------------------|---------------------------|--------------------------|------------------|---------------|-------------|
| 231833 381600078-0011 | Auditorium office C-103-H N side, 4' shelf | 4.2 | 12/28/2015 10:10:00 AM | 12/31/2015 7:52:00 AM | 68 | 40 | Customer |

Sample Notes:

| | | | | | | | |
|--------------------------|--|-----|---------------------------|--------------------------|----|----|----------|
| 231837 381600078-0012 | Auditorium office C-103-H N side, 4' shelf | 3.8 | 12/28/2015 10:10:00 AM | 12/31/2015 7:52:00 AM | 68 | 40 | Customer |
|--------------------------|--|-----|---------------------------|--------------------------|----|----|----------|

Sample Notes:

Summary for EMSL Kit 136302 **Average Radon Result: 4.0 pCi/L**

**EMSL Analytical, Inc.**

200 Route 130 North, Cinnaminson, NJ 08077

Phone/Fax: (800) 220-3675 / (856) 786-0327

<http://www.EMSL.com>cinnaminsonradonlab@emsl.com

| | |
|-------------|---------------|
| EMSL Order: | 381600078 |
| CustomerID: | LEID42 |
| CustomerPO: | 316041.00.00. |
| ProjectID: | |

Attn: **John Whelpley**
Leidos Engineering, LLC
11951 Freedom Dr.
Reston, VA 20190

Phone: (571) 268-0697
 Fax:
 Received: 01/05/16 2:30 PM
 Analysis Date: 1/6/2016
 Collected: 12/28/2015

Project: **201 Valley Brook Drive**

Test Site: **Springbrook HS**
201 Valley Brook Drive
Silver Spring, MD 20904

Test Report: Radon in Air Test Results**Samples for EMSL Kit 136299**

| Liquid Scintillation ID | Location | Radon Activity pCi/L | Start | Stop | Temperature F | Humidity % | Sample Type |
|--------------------------|-------------------------------------|-------------------------|---------------------------|--------------------------|------------------|---------------|-------------|
| 231832 381600078-0013 | Classroom G108 NW side, 6' shelf | 2.7 | 12/28/2015 10:16:00 AM | 12/31/2015 7:42:00 AM | 78 | 40 | Customer |

Sample Notes:

| | | | | | | | |
|--------------------------|-------------------------------------|-----|---------------------------|--------------------------|----|----|----------|
| 231831 381600078-0014 | Classroom G108 NW side, 6' shelf | 2.5 | 12/28/2015 10:16:00 AM | 12/31/2015 7:42:00 AM | 78 | 40 | Customer |
|--------------------------|-------------------------------------|-----|---------------------------|--------------------------|----|----|----------|

Sample Notes:**Summary for EMSL Kit 136299 Average Radon Result: 2.6 pCi/L****Samples for EMSL Kit 136296**

| Liquid Scintillation ID | Location | Radon Activity pCi/L | Start | Stop | Temperature F | Humidity % | Sample Type |
|--------------------------|-------------------------------|-------------------------|---------------------------|--------------------------|------------------|---------------|-------------|
| 231741 381600078-0015 | Lab F106, E side, 6' shelf | 1.2 | 12/28/2015 10:19:00 AM | 12/31/2015 7:45:00 AM | 68 | 40 | Customer |

Sample Notes:

| | | | | | | | |
|--------------------------|-------------------------------|---|---------------------------|--------------------------|----|----|----------|
| 231822 381600078-0016 | Lab F106, E side, 6' shelf | 1 | 12/28/2015 10:19:00 AM | 12/31/2015 7:45:00 AM | 68 | 40 | Customer |
|--------------------------|-------------------------------|---|---------------------------|--------------------------|----|----|----------|

Sample Notes:**Summary for EMSL Kit 136296 Average Radon Result: 1.1 pCi/L****Samples for EMSL Kit 136274**

| Liquid Scintillation ID | Location | Radon Activity pCi/L | Start | Stop | Temperature F | Humidity % | Sample Type |
|--------------------------|--------------------------------------|-------------------------|---------------------------|--------------------------|------------------|---------------|-------------|
| 230250 381600078-0017 | Classroom F107, NE side, 3' table | 2.9 | 12/28/2015 10:22:00 AM | 12/31/2015 7:46:00 AM | 68 | 40 | Customer |

Sample Notes:

| | | | | | | | |
|--------------------------|--------------------------------------|-----|---------------------------|--------------------------|----|----|----------|
| 230239 381600078-0018 | Classroom F107, NE side, 3' table | 2.9 | 12/28/2015 10:22:00 AM | 12/31/2015 7:46:00 AM | 68 | 40 | Customer |
|--------------------------|--------------------------------------|-----|---------------------------|--------------------------|----|----|----------|

Sample Notes:**Summary for EMSL Kit 136274 Average Radon Result: 2.9 pCi/L**

**EMSL Analytical, Inc.**

200 Route 130 North, Cinnaminson, NJ 08077
 Phone/Fax: (800) 220-3675 / (856) 786-0327
<http://www.EMSL.com> cinnaminsonradonlab@emsl.com

EMSL Order: 381600078
 CustomerID: LEID42
 CustomerPO: 316041.00.00.
 ProjectID:

Attn: **John Whelpley**
Leidos Engineering, LLC
11951 Freedom Dr.
Reston, VA 20190

Phone: (571) 268-0697
 Fax:
 Received: 01/05/16 2:30 PM
 Analysis Date: 1/6/2016
 Collected: 12/28/2015

Project: **201 Valley Brook Drive**

Test Site: **Springbrook HS**
201 Valley Brook Drive
Silver Spring, MD 20904

Test Report: Radon in Air Test Results**Samples for EMSL Kit 136269**

| Liquid Scintillation ID | Location | Radon Activity pCi/L | Start | Stop | Temperature F | Humidity % | Sample Type |
|--------------------------|--|-------------------------|---------------------------|--------------------------|------------------|---------------|-------------|
| 230103 381600078-0019 | Classroom F105 SW side, 5' file cabinet | 7.7 | 12/28/2015 10:26:00 AM | 12/31/2015 7:47:00 AM | 68 | 50 | Customer |

Sample Notes:

| | | | | | | | |
|--------------------------|--|-----|---------------------------|--------------------------|----|----|----------|
| 230228 381600078-0020 | Classroom F105 SW side, 5' file cabinet | 7.9 | 12/28/2015 10:26:00 AM | 12/31/2015 7:47:00 AM | 68 | 50 | Customer |
|--------------------------|--|-----|---------------------------|--------------------------|----|----|----------|

Sample Notes:

Summary for EMSL Kit 136269 **Average Radon Result: 7.8 pCi/L**

Samples for EMSL Kit 136275

| Liquid Scintillation ID | Location | Radon Activity pCi/L | Start | Stop | Temperature F | Humidity % | Sample Type |
|--------------------------|--|-------------------------|---------------------------|--------------------------|------------------|---------------|-------------|
| 230178 381600078-0021 | Boys' locker room D- 1 SE side, 5' locker | 2.6 | 12/28/2015 10:39:00 AM | 12/31/2015 7:26:00 AM | 68 | 60 | Customer |

Sample Notes:

| | | | | | | | |
|--------------------------|--|-----|---------------------------|--------------------------|----|----|----------|
| 230334 381600078-0022 | Boys' locker room D- 1 SE side, 5' locker | 2.9 | 12/28/2015 10:39:00 AM | 12/31/2015 7:26:00 AM | 68 | 60 | Customer |
|--------------------------|--|-----|---------------------------|--------------------------|----|----|----------|

Sample Notes:

Summary for EMSL Kit 136275 **Average Radon Result: 2.8 pCi/L**

Samples for EMSL Kit 136295

| Liquid Scintillation ID | Location | Radon Activity pCi/L | Start | Stop | Temperature F | Humidity % | Sample Type |
|--------------------------|--------------------------------------|-------------------------|---------------------------|--------------------------|------------------|---------------|-------------|
| 231874 381600078-0023 | Classroom E209, SE side, 3' table | 1.7 | 12/28/2015 10:48:00 AM | 12/31/2015 7:34:00 AM | 70 | 40 | Customer |

Sample Notes:

| | | | | | | | |
|--------------------------|--------------------------------------|-----|---------------------------|--------------------------|----|----|----------|
| 231734 381600078-0024 | Classroom E209, SE side, 3' table | 1.9 | 12/28/2015 10:48:00 AM | 12/31/2015 7:34:00 AM | 70 | 40 | Customer |
|--------------------------|--------------------------------------|-----|---------------------------|--------------------------|----|----|----------|

Sample Notes:

Summary for EMSL Kit 136295 **Average Radon Result: 1.8 pCi/L**

**EMSL Analytical, Inc.**

200 Route 130 North, Cinnaminson, NJ 08077

Phone/Fax: (800) 220-3675 / (856) 786-0327

<http://www.EMSL.com>cinnaminsonradonlab@emsl.com

| | |
|-------------|---------------|
| EMSL Order: | 381600078 |
| CustomerID: | LEID42 |
| CustomerPO: | 316041.00.00. |
| ProjectID: | |

Attn: **John Whelpley**
Leidos Engineering, LLC
11951 Freedom Dr.
Reston, VA 20190

Phone: (571) 268-0697
 Fax:
 Received: 01/05/16 2:30 PM
 Analysis Date: 1/6/2016
 Collected: 12/28/2015

Project: **201 Valley Brook Drive**

Test Site: **Springbrook HS**
201 Valley Brook Drive
Silver Spring, MD 20904

Test Report: Radon in Air Test Results**Samples for EMSL Kit 136276**

| Liquid Scintillation ID | Location | Radon Activity pCi/L | Start | Stop | Temperature F | Humidity % | Sample Type |
|-------------------------|----------|-------------------------|-------------|------------|------------------|---------------|-------------|
| 230290 | D | 2 | 12/28/2015 | 12/31/2015 | 70 | 40 | Customer |
| 381600078-0025 | | | 10:49:00 AM | 7:35:00 AM | | | |

Sample Notes:

| | | | | | | | |
|----------------|---|---|-------------|------------|----|----|----------|
| 230123 | D | 2 | 12/28/2015 | 12/31/2015 | 70 | 40 | Customer |
| 381600078-0026 | | | 10:49:00 AM | 7:35:00 AM | | | |

Sample Notes:**Summary for EMSL Kit 136276 Average Radon Result: 2.0 pCi/L****Samples for EMSL Kit 136297**

| Liquid Scintillation ID | Location | Radon Activity pCi/L | Start | Stop | Temperature F | Humidity % | Sample Type |
|-------------------------|-------------------------------------|-------------------------|-------------|------------|------------------|---------------|-------------|
| 231869 | Classroom F206 NE side, 3' table | 1.1 | 12/28/2015 | 12/31/2015 | 66 | 60 | Customer |
| 381600078-0027 | | | 10:54:00 AM | 7:37:00 AM | | | |

Sample Notes:

| | | | | | | | |
|----------------|-------------------------------------|-----|-------------|------------|----|----|----------|
| 231827 | Classroom F206 NE side, 3' table | 1.1 | 12/28/2015 | 12/31/2015 | 66 | 60 | Customer |
| 381600078-0028 | | | 10:54:00 AM | 7:37:00 AM | | | |

Sample Notes:**Summary for EMSL Kit 136297 Average Radon Result: 1.1 pCi/L****Samples for EMSL Kit 136270**

| Liquid Scintillation ID | Location | Radon Activity pCi/L | Start | Stop | Temperature F | Humidity % | Sample Type |
|-------------------------|-------------------------------------|-------------------------|-------------|------------|------------------|---------------|-------------|
| 230198 | Classroom G208 NW side, 6' shelf | 1.3 | 12/28/2015 | 12/31/2015 | 70 | 40 | Customer |
| 381600078-0029 | | | 10:58:00 AM | 7:39:00 AM | | | |

Sample Notes:

| | | | | | | | |
|----------------|-------------------------------------|-----|-------------|------------|----|----|----------|
| 230128 | Classroom G208 NW side, 6' shelf | 1.6 | 12/28/2015 | 12/31/2015 | 70 | 40 | Customer |
| 381600078-0030 | | | 10:58:00 AM | 7:39:00 AM | | | |

Sample Notes:**Summary for EMSL Kit 136270 Average Radon Result: 1.5 pCi/L**

**EMSL Analytical, Inc.**

200 Route 130 North, Cinnaminson, NJ 08077

Phone/Fax: (800) 220-3675 / (856) 786-0327

<http://www.EMSL.com>cinnaminsonradonlab@emsl.com

| | |
|-------------|---------------|
| EMSL Order: | 381600078 |
| CustomerID: | LEID42 |
| CustomerPO: | 316041.00.00. |
| ProjectID: | |

Attn: **John Whelpley**
Leidos Engineering, LLC
11951 Freedom Dr.
Reston, VA 20190

Phone: (571) 268-0697
 Fax:
 Received: 01/05/16 2:30 PM
 Analysis Date: 1/6/2016
 Collected: 12/28/2015

Project: **201 Valley Brook Drive**

Test Site: **Springbrook HS**
201 Valley Brook Drive
Silver Spring, MD 20904

Test Report: Radon in Air Test Results**Samples for EMSL Kit 136300**

| Liquid Scintillation ID | Location | Radon Activity pCi/L | Start | Stop | Temperature F | Humidity % | Sample Type |
|--------------------------|-----------------------------------|-------------------------|---------------------------|--------------------------|------------------|---------------|-------------|
| 231790 381600078-0031 | Daycare E108 SE side, 6' shelf | 4.1 | 12/28/2015 11:08:00 AM | 12/31/2015 7:29:00 AM | 80 | 30 | Customer |

Sample Notes:

| | | | | | | | |
|--------------------------|-----------------------------------|-----|---------------------------|--------------------------|----|----|----------|
| 231866 381600078-0032 | Daycare E108 SE side, 6' shelf | 3.1 | 12/28/2015 11:08:00 AM | 12/31/2015 7:29:00 AM | 80 | 30 | Customer |
|--------------------------|-----------------------------------|-----|---------------------------|--------------------------|----|----|----------|

Sample Notes:**Summary for EMSL Kit 136300 Average Radon Result: 3.6 pCi/L****Samples for EMSL Kit 136301**

| Liquid Scintillation ID | Location | Radon Activity pCi/L | Start | Stop | Temperature F | Humidity % | Sample Type |
|--------------------------|------------------------------------|-------------------------|---------------------------|--------------------------|------------------|---------------|-------------|
| 231781 381600078-0033 | Kitchen E111, SE side, 4' shelf | 7.6 | 12/28/2015 11:11:00 AM | 12/31/2015 7:31:00 AM | 72 | 40 | Customer |

Sample Notes:

| | | | | | | | |
|--------------------------|------------------------------------|-----|---------------------------|--------------------------|----|----|----------|
| 231865 381600078-0034 | Kitchen E111, SE side, 4' shelf | 7.7 | 12/28/2015 11:11:00 AM | 12/31/2015 7:31:00 AM | 72 | 40 | Customer |
|--------------------------|------------------------------------|-----|---------------------------|--------------------------|----|----|----------|

Sample Notes:**Summary for EMSL Kit 136301 Average Radon Result: 7.6 pCi/L****Samples for EMSL Kit 136304**

| Liquid Scintillation ID | Location | Radon Activity pCi/L | Start | Stop | Temperature F | Humidity % | Sample Type |
|--------------------------|-------------------------------------|-------------------------|---------------------------|--------------------------|------------------|---------------|-------------|
| 231807 381600078-0035 | Classroom E115 SE side, 3' table | 2.5 | 12/28/2015 11:15:00 AM | 12/31/2015 8:03:00 AM | 68 | 40 | Customer |

Sample Notes:

| | | | | | | | |
|--------------------------|-------------------------------------|-----|---------------------------|--------------------------|----|----|----------|
| 231794 381600078-0036 | Classroom E115 SE side, 3' table | 2.3 | 12/28/2015 11:15:00 AM | 12/31/2015 8:03:00 AM | 68 | 40 | Customer |
|--------------------------|-------------------------------------|-----|---------------------------|--------------------------|----|----|----------|

Sample Notes:**Summary for EMSL Kit 136304 Average Radon Result: 2.4 pCi/L**

RADON SURVEY SCREENING REPORT – FINAL

SPRINGBROOK HIGH SCHOOL

201 Valley Brook Drive, Silver Spring, Maryland 20904

5 January 2016



EXECUTIVE SUMMARY

| | |
|---------------------------|---|
| Name of Facility: | Springbrook High School, Silver Spring, MD |
| Date of Test Report: | 5 January 2016 |
| Round of Testing: | Initial Follow-up Post Remediation |
| # rooms tested: | 46 |
| # rooms \geq 4.0 pCi/L: | 10 |
| Low Value: | 1.3 pCi/L |
| High Value: | 14.6 pCi/L Classroom B109/110 (6.1 pCi/L) Office B109A (14.6 pCi/L) Office B109B (5.5 pCi/L) Classroom B104 (4.6 pCi/L) Classroom E111 (8.9 pCi/L) Daycare E108 (4.7 pCi/L) Classroom F105 (6.3 pCi/L) Classroom F106 (4.3 pCi/L) Classroom F107 (4.4 pCi/L) Classroom G108 (4.8 pCi/L) |

At the request of Montgomery County Public Schools (MCPS), Leidos conducted a radon survey at Springbrook High School (HS) in accordance with the protocols in the United States Environmental Protection Agency (USEPA) *Radon Measurement in Schools* (July 1993). On 8 December 2015, John Whelpley, P.E. (Leidos) installed sampling kits in 46 occupied classrooms and offices on the first floor and lower level of Springbrook HS. The locations of the 46 occupied classrooms and offices are shown in Figure 1. The high school was constructed in 1964 and had its last major renovation in 1994.

The radon sampling survey followed the USEPA protocols including placing a sampling device in each room selected as a sampling location. Each device or kit contains two activated charcoal adsorption devices, set at a distance of 4 inches apart. A photograph of the radon sampling kit is shown in Figure 2. Each radon sampling kit was placed at least 20 inches above the ground surface, and was usually placed on top of a surface such as a 5-foot file cabinet or 6-foot shelf to avoid contact by students during the 3-day sampling period. The radon sampling kits were also placed away from exterior walls and windows, out of direct sunlight, and away from HVAC vents as much as possible. A photograph of the radon sampling kit on a 6-foot cabinet is shown in Figure 3.

The radon test kits were installed on Tuesday after classes ended for the day at 3pm. The samples were then picked up on Friday before classes began at 8am (i.e., approximately 65 hours later). According to the Building Services personnel, the HVAC system was functioning in the school prior to and during the testing period, and no exterior windows were open. The average outdoor temperature (45 degrees F), humidity (86%), wind (0 mph), and total precipitation (0.00 inches) during the December 8-11 testing period were obtained from Weather Underground (www.weatherunderground.com).

In accordance with the USEPA protocols, all Lower Level and First Floor occupied classrooms and offices in contact with the ground were sampled. These included four rooms on the Lower Level (G1, G2, G11, and G12) and 42 rooms on the First Floor. In addition, because the C103 Auditorium was over 2,000 square feet, a second set of samples was collected within this room (SB43 and SB44 in the Western and Southern corners, respectively) in accordance with the USEPA protocols. Also, in accordance with the USEPA protocols, one First Floor

classroom (F113) was not sampled because it was directly above two classrooms on the Lower Level (G1 and G2) that were sampled (as SB9 and SB10).

The radon test kits were shipped to EMSL Analytical, Inc. in Cinnaminson, NJ, on 11 December 2015 for analysis by liquid scintillation counter using the USEPA testing protocols for testing Radon in Air. EMSL is accredited by the National Radon Safety Board (NRSB) under ARL6006 for radon analysis and the radon test kits are approved devices by the NRSB under #12199. A total of 55 paired devices were submitted for analysis, including the screening samples for 47 sampling locations (i.e., the 46 rooms include two samples in the C103 Auditorium), five duplicate samples, and three field blanks. The Chain of Custody for the shipment of the radon test kits is shown in Appendix B. The laboratory analysis results are shown in Appendix C and are summarized in the table in Appendix A.

As shown in the table in Appendix A, ten rooms had radon results above the USEPA Action Level of 4 Picocuries per Liter (pCi/L). These included four rooms in the B-Wing (Classroom B109/110 with the adjacent B109A and B109B offices and Classroom B104), two rooms in the E-Wing (Classroom E111 and the E108 Daycare), three rooms in the F-Wing (Classrooms F105, F106, and F107), and one room in the G-Wing (Classroom G108). (None of the four rooms in the Lower Level tested above the USEPA action level.) In accordance with the USEPA procedures, the ten rooms exceeding the USEPA Action Level require retesting. In addition, one room (Classroom E115) had sampling devices which were determined to have been tampered with (i.e., moved and partially closed by someone) and retesting in this room will be required. (In Classroom F105 one of the two sampling devices was moved and partially closed, but the reported result for the other fully open device was 6.3 pCi/L, and therefore, in accordance with the USEPA protocol, the location should be retested in any case). Also, at the request of MCPS, two other rooms will also be sampled during the retesting: the Boys Locker Room in the lower level and the Auditorium dressing room.

As part of the USEPA Quality Assurance (QA) procedures, Leidos collected five duplicates (covering over 10% of rooms) and three field blanks (representing more than 5% of the rooms). The five duplicates (SB 7, SB 16, SB 28, SB 45, and SB 48) all had average relative percent differences (ARPDs) within the QA limit of 25%. The three field blanks (SB 26, SB 50, and SB 55) were all between 0.1 and 0.4 pCi/L and were less than the QA limit of 1.0 pCi/L.

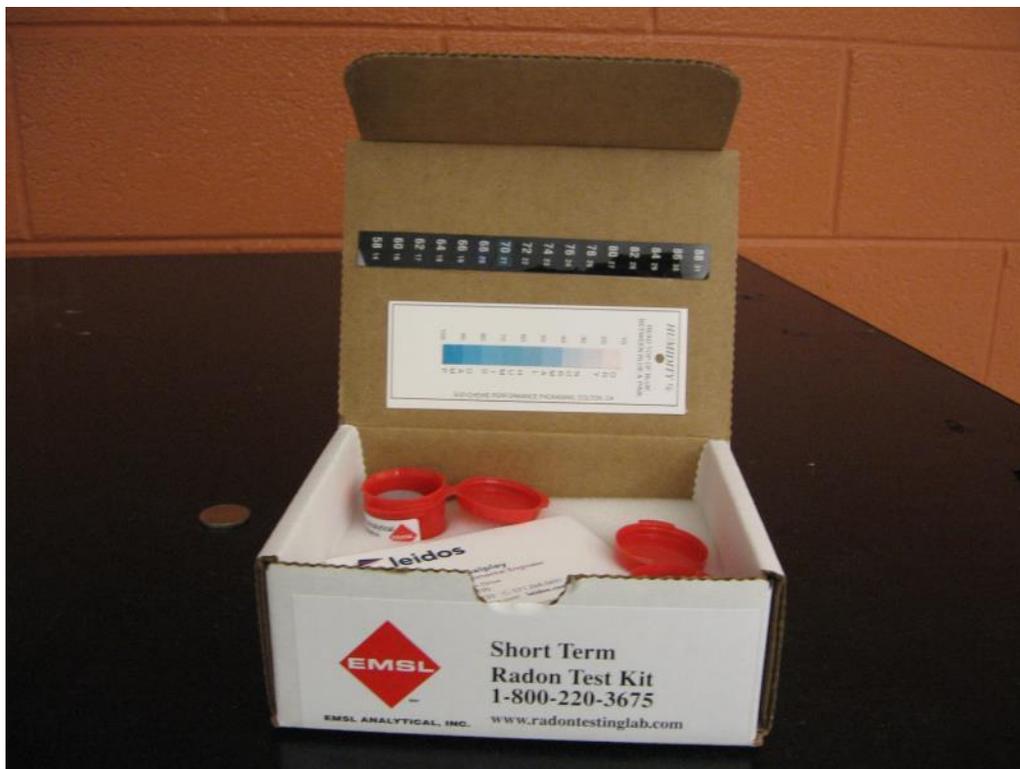


Figure 2. Photograph of Typical Radon Test Kit With Dual Devices



Figure 3. Typical Placement of Radon Test Kit

Appendix A. Radon Survey Results

| Unique Sample Identifier | Sample Location Description (Room Number, Area) | Sample Result |
|--------------------------|--|---------------|
| 225514 | SB1 - Classroom B110/109, South Side, 6 ft Shelf | 6.1 |
| 225488 | SB1 - Classroom B110/109, South Side, 6 ft Shelf | 6.1 |
| 225720 | SB 2 - Office B109B, South Side, 5 ft Shelf | 5.0 |
| 225518 | SB 2 - Office B109B, South Side, 5 ft Shelf | 5.5 |
| 225764 | SB 3 - Office B109A, East Side, 6 ft Shelf | 14.1 |
| 225547 | SB 3 - Office B109A, East Side, 6 ft Shelf | 14.6 |
| 225579 | SB 4- Classroom B108, North Side, 6 ft Shelf | 3.6 |
| 225716 | SB 4- Classroom B108, North Side, 6 ft Shelf | 3.3 |
| 225721 | SB 5 - Office B108C, West Side, 5 ft Shelf | 2.2 |
| 225689 | SB 5 - Office B108C, West Side, 5 ft Shelf | 2.0 |
| 225501 | SB 6 - Special Education Classroom B105, South Side, 4.5 ft File Cabinet | 2.6 |
| 225535 | SB 6 - Special Education Classroom B105, South Side, 4.5 ft File Cabinet | 2.4 |
| 225540 | SB 7 - Special Education Classroom B105, South Side, 4.5 ft File Cabinet | 2.7 |
| 225690 | SB 7 - Special Education Classroom B105, South Side, 4.5 ft File Cabinet | 2.7 |
| 225508 | SB 8 - Classroom E115, North Side, On Wall at 5.5 ft over Closet Door | 0.3 |
| 225703 | SB 8 - Classroom E115, North Side, On Wall at 5.5 ft over Closet Door | 0.4 |
| 225575 | SB 9 - Classroom G2, South Side, 6 ft Shelf | 1.6 |
| 225712 | SB 9 - Classroom G2, South Side, 6 ft Shelf | 1.7 |
| 225773 | SB 10 - Classroom G1, West Side, 6 ft Shelf | 2.2 |
| 225509 | SB 10 - Classroom G1, West Side, 6 ft Shelf | 2.3 |
| 225741 | SB 11 - Classroom G11, South Side, On Wall at 6 ft over Whiteboard | 2.0 |
| 225708 | SB 11 - Classroom G11, South Side, On Wall at 6 ft over Whiteboard | 1.7 |
| 225576 | SB 12 - Classroom G12, North Side, 4.5 ft Bookshelf | 3.8 |
| 225420 | SB 12 - Classroom G12, North Side, 4.5 ft Bookshelf | 3.5 |
| 225696 | SB 13 - Lab G101, NW Side, 6 ft above Eyewash | 2.3 |
| 225766 | SB 13 - Lab G101, NW Side, 6 ft above Eyewash | 2.1 |
| 225429 | SB 14 - Lab G106, SE Side, 6 ft above Safety Shower | 1.4 |
| 225686 | SB 14 - Lab G106, SE Side, 6 ft above Safety Shower | 1.6 |
| 225592 | SB 15 - Lab G105, NW Side, 6 ft Shelf | 1.7 |
| 225794 | SB 15 - Lab G105, NW Side, 6 ft Shelf | 1.4 |
| 225730 | SB 16 - Lab G105, NW Side, 6 ft Shelf | 1.4 |
| 225578 | SB 16 - Lab G105, NW Side, 6 ft Shelf | 1.3 |
| 225503 | SB 17 - Lab G109, SE Side, 6 ft Shelf | 3.5 |
| 225528 | SB 17 - Lab G109, SE Side, 6 ft Shelf | 3.5 |
| 225577 | SB 18 - Lab G108, NW Side, 6 ft Shelf | 4.5 |
| 225392 | SB 18 - Lab G108, NW Side, 6 ft Shelf | 4.8 |
| 225912 | SB 19 - Lab G110, SW Side, 6 ft Shelf | 3.9 |
| 225599 | SB 19 - Lab G110, SW Side, 6 ft Shelf | 3.9 |

| Unique Sample Identifier | Sample Location Description (Room Number, Area) | Sample Result |
|--------------------------|--|---------------|
| 225497 | SB 20 - Lab F108, NW Side, 6 ft Shelf | 2.2 |
| 225549 | SB 20 - Lab F108, NW Side, 6 ft Shelf | 2.2 |
| 225506 | SB 21 - Classroom F109, SE Side, On teacher computer at 4 ft | 3.1 |
| 225770 | SB 21 - Classroom F109, SE Side, On teacher computer at 4 ft | 3.7 |
| 225697 | SB 22 - Lab F106, East Side, 6 ft Shelf | 4.3 |
| 225795 | SB 22 - Lab F106, East Side, 6 ft Shelf | 4.3 |
| 225751 | SB 23 - Classroom F107, NE Side, On teacher computer at 3 ft | 4.0 |
| 225725 | SB 23 - Classroom F107, NE Side, On teacher computer at 3 ft | 4.4 |
| 225728 | SB 24 - Classroom F105, SW Side, 5 ft File Cabinet | 6.3 |
| 225568 | SB 24 - Classroom F105, SW Side, 5 ft File Cabinet | 3.6 |
| 225797 | SB 25 - Classroom F103, SW Side, On chalkboard at 3 ft | 3.2 |
| 225552 | SB 25 - Classroom F103, SW Side, On chalkboard at 3 ft | 2.8 |
| 225584 | SB 26 - Field Blank | 0.2 |
| 225522 | SB 26 - Field Blank | 0.1 |
| 225520 | SB 27 - Office F104, NE Side, 5 ft Shelf | 2.3 |
| 225684 | SB 27 - Office F104, NE Side, 5 ft Shelf | 2.7 |
| 225711 | SB 28 - Office F104, NE Side, 5 ft Shelf | 2.4 |
| 225726 | SB 28 - Office F104, NE Side, 5 ft Shelf | 2.6 |
| 225735 | SB 29 - Classroom F102, SW Side, On teacher computer at 3 ft | 1.3 |
| 225793 | SB 29 - Classroom F102, SW Side, On teacher computer at 3 ft | 1.7 |
| 225591 | SB 30 - Classroom F101, NW Side, 3 ft credenza | 1.4 |
| 225596 | SB 30 - Classroom F101, NW Side, 3 ft credenza | 1.4 |
| 225784 | SB 31 - Classroom E117, NE Side, 4 ft file cabinet | 1.9 |
| 225567 | SB 31 - Classroom E117, NE Side, 4 ft file cabinet | 1.8 |
| 225531 | SB 32 - Classroom E118, NW Side, 6 ft Shelf | 2.5 |
| 225839 | SB 32 - Classroom E118, NW Side, 6 ft Shelf | 2.9 |
| 225760 | SB 33 - Classroom E111, SE Side, 6.5 ft Shelf | 8.9 |
| 225771 | SB 33 - Classroom E111, SE Side, 6.5 ft Shelf | 8.5 |
| 225855 | SB 34 - Daycare E108, SE Side, 6 ft Shelf | 4.5 |
| 225758 | SB 34 - Daycare E108, SE Side, 6 ft Shelf | 4.7 |
| 225521 | SB 35 - Office E107, SW Side, 6 ft Shelf | 1.4 |
| 225529 | SB 35 - Office E107, SW Side, 6 ft Shelf | 1.6 |
| 225705 | SB 36 - Classroom E105, NW Side, 4 ft File Cabinet | 2.7 |
| 225565 | SB 36 - Classroom E105, NW Side, 4 ft File Cabinet | 2.4 |
| 225719 | SB 37 - Classroom E106, East Side, 6 ft Shelf | 1.6 |
| 225767 | SB 37 - Classroom E106, East Side, 6 ft Shelf | 1.8 |
| 225749 | SB 38 - Classroom E110, NW Side, Over fridge at 5 ft | 1.8 |
| 225888 | SB 38 - Classroom E110, NW Side, Over fridge at 5 ft | 1.9 |
| 225731 | SB 39 - Office E114, NW Side, 6 ft Shelf | 2.0 |

| Unique Sample Identifier | Sample Location Description (Room Number, Area) | Sample Result |
|--------------------------|---|---------------|
| 225543 | SB 39 - Office E114, NW Side, 6 ft Shelf | 1.8 |
| 225566 | SB 40 - Classroom E113, NW Side, 5 ft File Cabinet | 1.7 |
| 225718 | SB 40 - Classroom E113, NW Side, 5 ft File Cabinet | 1.9 |
| 225714 | SB 41 - Music Room D107, West Side, 4 ft Shelf | 3.9 |
| 225738 | SB 41 - Music Room D107, West Side, 4 ft Shelf | 3.4 |
| 225571 | SB 42 - Music Room D108, East Side, On teacher desk at 3 ft | 2.8 |
| 225772 | SB 42 - Music Room D108, East Side, On teacher desk at 3 ft | 3.2 |
| 225910 | SB 43 - Auditorium C103, West Side, 5 ft light stand | 3.6 |
| 225722 | SB 43 - Auditorium C103, West Side, 5 ft light stand | 3.9 |
| 225550 | SB 44 - Auditorium C103, South Side, 5 ft light stand | 3.0 |
| 225580 | SB 44 - Auditorium C103, South Side, 5 ft light stand | 3.3 |
| 225707 | SB 45 - Auditorium C103, South Side, 5 ft light stand | 3.8 |
| 225897 | SB 45 - Auditorium C103, South Side, 5 ft light stand | 3.7 |
| 225753 | SB 46 - Machine Shop B107, East Side, 6 ft Shelf | 2.8 |
| 225583 | SB 46 - Machine Shop B107, East Side, 6 ft Shelf | 2.7 |
| 225768 | SB 47 - Classroom B106, South Side, 6 ft Shelf | 2.7 |
| 225553 | SB 47 - Classroom B106, South Side, 6 ft Shelf | 2.3 |
| 225802 | SB 48 - Classroom B106, South Side, 6 ft Shelf | 3.0 |
| 225527 | SB 48 - Classroom B106, South Side, 6 ft Shelf | 2.4 |
| 225587 | SB 49 - Classroom B103, East Side, 6 ft Shelf | 2.7 |
| 225572 | SB 49 - Classroom B103, East Side, 6 ft Shelf | 2.5 |
| 225574 | SB 50- Field Blank | 0.2 |
| 225743 | SB 50- Field Blank | 0.1 |
| 225545 | SB 51 - Classroom B102, South Side, 6 ft Shelf | 2.4 |
| 225597 | SB 51 - Classroom B102, South Side, 6 ft Shelf | 2.9 |
| 225788 | SB 52 - Classroom B101, South Side, 6 ft Shelf | 1.9 |
| 225524 | SB 52 - Classroom B101, South Side, 6 ft Shelf | 1.6 |
| 225715 | SB 53 - Classroom B104, South Side, 6 ft Shelf | 4.6 |
| 225791 | SB 53 - Classroom B104, South Side, 6 ft Shelf | 4.3 |
| 225713 | SB 54 - Office A101, West Side, 6 ft Shelf | 2.0 |
| 225891 | SB 54 - Office A101, West Side, 6 ft Shelf | 1.9 |
| 225776 | SB 55 - Field Blank | 0.1 |
| 225746 | SB 55 - Field Blank | 0.4 |

Appendix B. Chain of Custody

17-149F 01 9742 4581

m#3 1/6



RECEIVED
EMSL
CINNAMINSON, N.J.

CHAIN OF CUSTODY
RADON LABORATORY SERVICES
(COMMERCIAL USE)

EMSL ANALYTICAL, INC.
200 ROUTE 130 NORTH
CINNAMINSON, NJ 08077
PHONE: 800-220-3675
FAX: 856-786-0327

EMSL ANALYTICAL, INC.

2015 DEC 15 P 12:34

EMSL Job #: 381509976

Company Information

Company Name: LEIDOS
EMSL Account #: 86184864
Contact: JOHN WHELPLEY
Address: 11951 Freedom Dr.
City: Reston
State: VA Zip Code: 20190
Phone: 571-268-0697
Fax: NA
Email: whelpley.j@leidos.com

Project / Property Information:

Project / Property Information: HIGH SCHOOL
Name: SPRING BROOK
Address: 201 Valley Brook Drive
City: Silver Spring
Municipality: - County: Montgomery
State: MD Zip Code: 20904
PO#/Project#: PO-MISC-PROD-86184864
 Please check box if this is a Post Mitigation Test
Technician Name: JOHN WHELPLEY, P.E.
Technician Certification #: NA
Technician Signature: [Signature]

Disclaimer

In no event shall EMSL be liable for indirect, special, consequential, or incidental damages for loss of profit or goodwill regardless of the negligence (either sole or concurrent) of EMSL and whether EMSL has been informed of the possibility of such damages arising out of or in connection with EMSL's services there under or the delivery, use, reliance upon or interpretation of test results by client or third party. We accept no legal responsibility for the purposes for which the client uses the test results. In no event shall EMSL be liable to a client or any third party, whether based upon theories of tort, contract or any other legal or equitable theory, in excess of the amount paid to EMSL by client thereafter.

| Box Number | Device Number | Location | Exposure Period Beginning Date and Time | Exposure Period Ending Date and Time | Temperature, °F | Humidity, % |
|------------|---------------|--|---|--------------------------------------|-----------------|-------------|
| SP1 | 133259 | Classroom 6110/109 S Side - Shelf 6 | 12/8/15 1451 | 12/11/15 0751 | 72° | 60% |
| | " | " | " | " | " | " |
| SP2 | 133265 | Office 6109B S Side - Shelf 5 | 12/8/15 1453 | 12/11/15 0753 | 72° | 60% |
| | " | " | " | " | " | " |
| SP3 | 133275 | Office 6109A E Side - Shelf 6 | 12/8/15 1456 | 12/11/15 0754 | 72° | 60% |
| | " | " | " | " | " | " |
| SP4 | 133268 | Classroom 6108 N Side - Shelf 6 | 12/8/15 1500 | 12/11/15 0758 | 74° | 30% |
| | " | " | " | " | " | " |
| SP5 | 133269 | Office 6108C W Side - Shelf 5 | 12/8/15 1502 | 12/11/15 0759 | 76° | 30% |
| | " | " | " | " | " | " |
| SP6 | 133260 | Special Educ Classroom 6105/6 S Side - Shelf 4 | 12/8/15 1512 | 12/11/15 0746 | 74° | 40% |
| | " | " | " | " | " | " |

Relinquished By: [Signature] 12/11/15 1500 to UPS
Received By: [Signature] 12/15/15

2015 DEC 15 P 12:34
EMSL
CINNAMINSON, N.J.



RECEIVED
EMSL
CINNAMINSON, NJ
CHAIN OF CUSTODY
RADON LABORATORY SERVICES
(COMMERCIAL USE)

EMSL ANALYTICAL, INC.
200 ROUTE 130 NORTH
CINNAMINSON, NJ 08077

PHONE: 800-220-3675
FAX: 856-786-0327

EMSL ANALYTICAL, INC.

2015 DEC 15 17:34
EMSL Job #: 38150997

| Box Number | Device Number | Location | Exposure Period Beginning Date and Time | Exposure Period Ending Date and Time | Temperature, °F | Humidity, % |
|------------|---------------|------------------------------------|---|--------------------------------------|-----------------|-------------|
| SB7 | 133276 | D | 12/8/15 1516 | 12/11/15 0747 | 74° | 40% |
| " | 225690 | D | " " | " " | " | " |
| SB8 | 133277 | Classroom E115 Nside - 5 1/2' | 12/8/15 1524 | 12/11/15 0808 | 68° | 30-50% |
| " | 225703 | " Door Jamb | " " | " " | " | " |
| SB9 | 133258 | Classroom G2 S Side - Shelf | 12/8/15 1547 | 12/11/15 0652 | 64° | 30% |
| " | 225712 | " " 6' | " " | " " | " | " |
| SB10 | 133273 | Classroom G1 W Side Shelf | 12/8/15 1551 | 12/11/15 0653 | 66° | 40% |
| " | 225509 | " " 6' | " " | " " | " | " |
| SB11 | 133257 | Classroom G11 S Side - White Board | 12/8/15 1600 | 12/11/15 0655 | 66° | 30% |
| " | 225708 | " " 6' | " " | " " | " | " |
| SB12 | 133261 | Classroom G12 N Side - Bookshelf | 12/8/15 1602 | 12/11/15 0657 | 68° | 70% |
| " | 225420 | " " 4 1/2' | " " | " " | " | " |
| SB13 | 133244 | Lab G101 NW Side - Eye | 12/8/15 1616 | 12/11/15 0659 | 74° | 30% |
| " | 225766 | " " W/Ch 6" | " " | " " | " | " |
| SB14 | 133243 | Lab G106 S Side Shelf | 12/8/15 1623 | 12/11/15 0645 | 76° | 30% |
| " | 225686 | " " Shelf 6' | " " | " " | " | " |
| SB15 | 133236 | Lab G105 NW Side Shelf | 12/8/15 1628 | 12/11/15 0647 | 68° | 40% |
| " | 225794 | " " 6" | " " | " " | " | " |
| SB16 | 133235 | D | 12/8/15 1630 | 12/11/15 0648 | 68° | 40% |
| " | 225578 | D | " " | " " | " | " |
| SB17 | 133242 | Lab G109 S Side Shelf | 12/8/15 1637 | 12/11/15 0642 | 68° | 80% |
| " | 225528 | " " " | " " | " " | " | " |
| SB18 | 133252 | Lab G108 NW Side - Shelf | 12/8/15 1643 | 12/11/15 0641 | 78° | 80% |
| " | 225392 | " " 6" | " " | " " | " | " |
| SB19 | 133253 | Lab G110 SW Side - Shelf | 12/8/15 1648 | 12/11/15 0639 | 72° | 30% |
| " | 225599 | " " 6" | " " | " " | " | " |
| SB20 | 133251 | Lab F108 N Side | 12/8/15 1657 | 12/11/15 0702 | 74° | 60% |

Relinquished By: Juan
Received By: [Signature]
" 225549

* Fell Down, Placed on wood shelf, Patrick
Page 2 of 6



EMSL ANALYTICAL, INC.

**CHAIN OF CUSTODY
RADON LABORATORY SERVICES
(COMMERCIAL USE)**

EMSL ANALYTICAL, INC.
200 ROUTE 130 NORTH
CINNAMINSON, NJ 08077

PHONE: 800-220-3675
FAX: 856-786-0327

EMSL Job #: 381509976

RECEIVED
EMSL
CINNAMINSON, N.J.
2015 DEC 15 P 12:34

Company Information

Company Name: <SAME>
EMSL Account #: "
Contact: "
Address: "
City: "
State: " Zip Code: "
Phone: "
Fax: "
Email: "

Project / Property Information:

Name: SPRING BROOK HS
Address: <SAME>
City: "
Municipality: " County: "
State: " Zip Code: "
PO#/Project#: "
 Please check box if this is a Post Mitigation Test
Technician Name: "
Technician Certification #: "
Technician Signature: "

Disclaimer

In no event shall EMSL be liable for indirect, special, consequential, or incidental damages for loss of profit or goodwill regardless of the negligence (either sole or concurrent) of EMSL and whether EMSL has been informed of the possibility of such damages arising out of or in connection with EMSL's services there under or the delivery, use, reliance upon or interpretation of test results by client or third party. We accept no legal responsibility for the purposes for which the client uses the test results. In no event shall EMSL be liable to a client or any third party, whether based upon theories of tort, contract or any other legal or equitable theory, in excess of the amount paid to EMSL by client thereafter.

| Box Number | Device Number | Location | Exposure Period Beginning Date and Time | Exposure Period Ending Date and Time | Temperature, °F | Humidity, % |
|------------|---------------|--|---|--------------------------------------|-----------------|-------------|
| 5821 | 133234 | Classroom F109 SE Side - Teacher | 12/8/15 1702 | 12/11/15 0708 | 72° | 30% |
| " | 225770 | " Computer 4' | " " | " " | " | " |
| 5822 | 133238 | Lab F106 E Side - Shelf 6' | 12/8/15 1710 | 12/11/15 0704 | 68° | 30% |
| " | 225795 | " " | " " | " " | " | " |
| 5823 | 133222 | Classroom F107 NE Side - Teacher | 12/8/15 1713 | 12/11/15 0710 | 72° | 30% |
| " | 225725 | " Computer 3' | " " | " " | " | " |
| 5824 | 133250 | Classroom F105 SW Side - File | 12/8/15 1721 | 12/11/15 0712 | 72° | 40% |
| " | 225568 | " Cabinet 5' | " " | " " | " | " |
| 5825 | 133245 | Classroom F103 SW Side - Chalkboard | 12/8/15 1725 | 12/11/15 0714 | 70° | 60% |
| " | 225552 | " " 3' | " " | " " | " | " |
| 5826 | 133246 | B | 12/8/15 1727 | 12/11/15 0715 | 72° | 40% |
| " | 225522 | B | " " | " " | " | " |

Relinquished By: *Jan Amy*
Received By: *Hank*

** Partially
Closed
Constr



EMSL ANALYTICAL, INC.

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RADON LABORATORY SERVICES
(COMMERCIAL USE)

2015 DEC 15 P 12:34

EMSL Job #: 381509976

EMSL ANALYTICAL, INC.
200 ROUTE 130 NORTH
CINNAMINSON, NJ 08077

PHONE: 800-220-3675
FAX: 856-786-0327

4/6

| Box Number | Device Number | Location | Exposure Period Beginning Date and Time | Exposure Period Ending Date and Time | Temperature, °F | Humidity, % |
|------------|---------------|--------------------------------|---|--------------------------------------|-----------------|-------------|
| SB27 | 133249 | Office F104 NESide Shelf | 12/8/15 1740 | 12/11/15 0704 | 68° | 30% |
| " | 225 684 | " " 5' | " " | " " | " | " |
| SB28 | 133248 | D | 12/8/15 1742 | 12/11/15 0708 | 68° | 30% |
| " | 225 726 | D | 12/8/15 1742 | " " | " | " |
| SB29 | 133247 | Classroom F102 SWSide Teacher | 12/8/15 1746 | 12/11/15 0715 | 68° | 40% |
| " | 225 793 | " Comput 3' | " " | " " | " | " |
| SB30 | 133237 | Classroom F101 NWSide Credenza | 12/8/15 1751 | 12/11/15 0716 | 64° | 50% |
| " | 225 596 | " " 3' | " " | " " | " | " |
| SB31 | 133241 | Class E117 NESide File | 12/8/15 1758 | 12/11/15 0718 | 68° | 30% |
| " | 225 567 | " Cabinet 4' | " " | " " | " | " |
| SB32 | 133232 | Classroom E118 NWSide Shelf | 12/8/15 1803 | 12/11/15 0723 | 76° | 40% |
| " | 225 839 | " " 6" | " " | " " | " | " |
| SB33 | 133240 | Classroom E111 SE Side Shelf | 12/8/15 1813 | 12/11/15 0721 | 72° | 30% |
| " | 225 771 | " " 6 1/2' | " " | " " | " | " |
| SB34 | 133230 | Day Care E108 SE Side Shelf | 12/8/15 1818 | 12/11/15 0715 | 72° | 30% |
| " | 225 758 | " " 6" | " " | " " | " | " |
| SB35 | 133227 | Office E107 SWSide Shelf | 12/8/15 1824 | 12/11/15 0730 | 68° | 40% |
| (Lack) | 225 524 | " " 6" | " " | " " | " | " |
| SB36 | 133225 | Class E105 NWSide File | 12/8/15 1831 | 12/11/15 0732 | 74° | 30% |
| " | 225 565 | " Cabinet 4' | " " | " " | " | " |
| SB37 | 133231 | Classroom E106 ESide Shelf | 12/8/15 1836 | 12/11/15 0733 | 72° | 30% |
| " | 225 767 | " " 6" | " " | " " | " | " |
| SB38 | 133239 | Classroom E110 NWSide Top of | 12/8/15 1842 | 12/11/15 0729 | 70° | 30% |
| " | 225 888 | " Fridge 5' | " " | " " | " | " |
| SB39 | 133223 | Office E114 NWSide Shelf | 12/8/15 1846 | 12/11/15 0726 | 70° | 40% |
| " | 225 543 | " " " | " " | " " | " | " |
| SB40 | 133228 | Classroom E113 NWSide File | 12/8/15 1849 | 12/11/15 0727 | 70° | 30% |
| " | " | " Cabinet 5' | " " | " " | " | " |

Relinquished By: [Signature]

Received By: [Signature]
" 225 718 "

m#3 5/6



**CHAIN OF CUSTODY
RADON LABORATORY SERVICES
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CINNAMINSON, N.J.

EMSL ANALYTICAL, INC.
200 ROUTE 130 NORTH
CINNAMINSON, NJ 08077

PHONE: 800-220-3675
FAX: 856-786-0327

EMSL Job #: 381509976 2015 DEC 15 P 12:34

Company Information

Company Name: <SAME>
 EMSL Account #: "
 Contact: "
 Address: "
 City: "
 State: " Zip Code: "
 Phone: "
 Fax: "
 Email: "

Project / Property Information:

Name: SPRING BROOK HS
 Address: <SAME>
 City: "
 Municipality: " County: "
 State: " Zip Code: "
 PO#/Project#: "
 Please check box if this is a Post Mitigation Test
 Technician Name: "
 Technician Certification #: "
 Technician Signature: "

Disclaimer

In no event shall EMSL be liable for indirect, special, consequential, or incidental damages for loss of profit or goodwill regardless of the negligence (either sole or concurrent) of EMSL and whether EMSL has been informed of the possibility of such damages arising out of or in connection with EMSL's services there under or the delivery, use, reliance upon or interpretation of test results by client or third party. We accept no legal responsibility for the purposes for which the client uses the test results. In no event shall EMSL be liable to a client or any third party, whether based upon theories of tort, contract or any other legal or equitable theory, in excess of the amount paid to EMSL by client thereafter.

| Box Number | Device Number | Location | Exposure Period Beginning Date and Time | Exposure Period Ending Date and Time | Temperature, °F | Humidity, % |
|------------|---------------|---|---|--------------------------------------|-----------------|-------------|
| 5041 | 133224 | Music Room D107 West Side, Shelf | 12/8/15 1858 | 12/11/15 0737 | 70° | 40% |
| | " | " " 4' | " " | " " | " | " |
| 5042 | 133226 | Music Room D108 E Side, Teacher Desk 3' | 12/8/15 1902 | 12/11/15 0739 | 72° | 30% |
| | " | 225772 | " " | " " | " | " |
| 5043 | 133229 | Auditorium W Side - Light Stand 5' | 12/8/15 1908 | 12/11/15 0619 | 70° | 60% |
| | " | 225722 | " " | " " | " | " |
| 5044 | 133233 | Auditorium S Side - Light Stand 5' | 12/8/15 1910 | 12/11/15 0620 | 70° | 60% |
| | " | 225580 | " " | " " | " | " |
| 5045 | 133191 | (225707) D | 12/8/15 1914 | 12/11/15 0621 | 70° | 60% |
| | " | 225897 | " " | " " | " | " |
| 5046 | 133197 | Music Room D107 E Side, Shelf 6' | 12/8/15 1923 | 12/11/15 0801 | 74° | 30% |
| | " | 225583 | " " | " " | " | " |

Relinquished By: *[Signature]*
 Received By: *[Signature]*

m# 3 6/6

EMSL ANALYTICAL, INC.
200 ROUTE 130 NORTH
CINNAMINSON, NJ 08077
PHONE: 800-220-3675
FAX: 856-786-0327



CHAIN OF CUSTODY
RADON LABORATORY SERVICES
(COMMERCIAL USE)

EMSL Job #: 381509976

EMSL ANALYTICAL, INC.

| Box Number | Device Number | Location | Exposure Period Beginning Date and Time | Exposure Period Ending Date and Time | Temperature, °F | Humidity, % |
|------------|---------------|-------------------------------|---|--------------------------------------|-----------------|-------------|
| S047 | 133207 | Class #106 S Side, Shelf | 12/8/15 1931 | 12/11/15 0756 | 72° | 30% |
| " | 225 553 | " " " " | " " | " " | " | " |
| S048 | 133206 | D | 12/8/15 1933 | 12/11/15 0757 | 72° | 30% |
| " | 225 527 | D | " " | " " | " | " |
| S049 | 133198 | Class #103 E Side, Shelf | 12/8/15 1946 | 12/11/15 0634 | 66° | 60% |
| " | 225 572 | " " " " | " " | " " | " | " |
| S050 | 133214 | B | 12/8/15 1948 | 12/11/15 0635 | 72°F | 40% |
| " | 225 743 | B | " " | " " | " | " |
| S051 | 133196 | Class #102 S Side Shelf | 12/8/15 1951 | 12/11/15 0637 | 66° | 60% |
| " | 225 597 | " " " " | " " | " " | " | " |
| S052 | 133205 | Class #101 S Side, Shelf | 12/8/15 1955 | 12/11/15 0630 | 66° | 30% |
| " | 225 524 | " " " " | " " | " " | " | " |
| S053 | 133213 | Class #104 S Side, Shelf | 12/8/15 2005 | 12/11/15 0744 | 70° | 30% |
| " | 225 791 | " " " " | " " | " " | " | " |
| S054 | 133204 | Office A 101 W Side, Shelf | 12/8/15 2009 | 12/11/15 0614 | 72° | 30% |
| " | 225 891 | " " " " | " " | " " | " | " |
| S055 | 133221 | B | 12/8/15 1220 | 12/11/15 0615 | 72° | 40% |
| " | 225 746 | B | " " | " " | " | " |

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Jul [Signature]

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12/15/15
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Appendix C. Laboratory Results

**EMSL Analytical, Inc.**

200 Route 130 North, Cinnaminson, NJ 08077
 Phone/Fax: (800) 220-3675 / (856) 786-0327
<http://www.EMSL.com> cinnaminsonradonlab@emsl.com

EMSL Order: 381509976
 CustomerID: LEID42
 CustomerPO:
 ProjectID:

Attn: **John Whelpley**
Leidos Engineering, LLC
11951 Freedom Dr.
Reston, VA 20190

Phone: (571) 268-0697
 Fax:
 Received: 12/15/15 12:34 PM
 Analysis Date: 12/17/2015
 Collected: 12/8/2015

Project: **Spring Brook High School / 201 Valley Brook Drive**

Test Site: **Spring Brook High School**
201 Valley Brook Drive
Silver Spring, MD 20904

Test Report: Radon in Air Test Results**Samples for EMSL Kit 133259**

| Liquid Scintillation ID | Location | Radon Activity pCi/L | Start | Stop | Temperature F | Humidity % | Sample Type |
|--------------------------|---|-------------------------|-------------------------|--------------------------|------------------|---------------|-------------|
| 225514 381509976-0001 | Classroom B110/109 S. Side- Shelf 6' | 6.1 | 12/8/2015 2:51:00 PM | 12/11/2015 7:51:00 AM | 72 | 60 | Customer |

Sample Notes:

| | | | | | | | |
|--------------------------|---|-----|-------------------------|--------------------------|----|----|----------|
| 225488 381509976-0002 | Classroom B110/109 S. Side- Shelf 6' | 6.1 | 12/8/2015 2:51:00 PM | 12/11/2015 7:51:00 AM | 72 | 60 | Customer |
|--------------------------|---|-----|-------------------------|--------------------------|----|----|----------|

Sample Notes:

Summary for EMSL Kit 133259 Average Radon Result: 6.1 pCi/L

Samples for EMSL Kit 133265

| Liquid Scintillation ID | Location | Radon Activity pCi/L | Start | Stop | Temperature F | Humidity % | Sample Type |
|--------------------------|-----------------------------------|-------------------------|-------------------------|--------------------------|------------------|---------------|-------------|
| 225720 381509976-0003 | Office B109B S. Side- Shelf 5' | 5 | 12/8/2015 2:53:00 PM | 12/11/2015 7:53:00 AM | 72 | 60 | Customer |

Sample Notes:

| | | | | | | | |
|--------------------------|-----------------------------------|-----|-------------------------|--------------------------|----|----|----------|
| 225518 381509976-0004 | Office B109B S. Side- Shelf 5' | 5.5 | 12/8/2015 2:53:00 PM | 12/11/2015 7:53:00 AM | 72 | 60 | Customer |
|--------------------------|-----------------------------------|-----|-------------------------|--------------------------|----|----|----------|

Sample Notes:

Summary for EMSL Kit 133265 Average Radon Result: 5.3 pCi/L

Samples for EMSL Kit 133275

| Liquid Scintillation ID | Location | Radon Activity pCi/L | Start | Stop | Temperature F | Humidity % | Sample Type |
|--------------------------|-----------------------------------|-------------------------|-------------------------|--------------------------|------------------|---------------|-------------|
| 225764 381509976-0005 | Office B109A E. Side- Shelf 6' | 14.1 | 12/8/2015 2:56:00 PM | 12/11/2015 7:54:00 AM | 72 | 60 | Customer |

Sample Notes:

| | | | | | | | |
|--------------------------|-----------------------------------|------|-------------------------|--------------------------|----|----|----------|
| 225547 381509976-0006 | Office B109A E. Side- Shelf 6' | 14.6 | 12/8/2015 2:56:00 PM | 12/11/2015 7:54:00 AM | 72 | 60 | Customer |
|--------------------------|-----------------------------------|------|-------------------------|--------------------------|----|----|----------|

Sample Notes:

Summary for EMSL Kit 133275 Average Radon Result: 14.4 pCi/L

**EMSL Analytical, Inc.**

200 Route 130 North, Cinnaminson, NJ 08077
 Phone/Fax: (800) 220-3675 / (856) 786-0327
<http://www.EMSL.com> cinnaminsonradonlab@emsl.com

EMSL Order: 381509976
 CustomerID: LEID42
 CustomerPO:
 ProjectID:

Attn: **John Whelpley**
Leidos Engineering, LLC
11951 Freedom Dr.
Reston, VA 20190

Phone: (571) 268-0697
 Fax:
 Received: 12/15/15 12:34 PM
 Analysis Date: 12/17/2015
 Collected: 12/8/2015

Project: **Spring Brook High School / 201 Valley Brook Drive**

Test Site: **Spring Brook High School**
201 Valley Brook Drive
Silver Spring, MD 20904

Test Report: Radon in Air Test Results**Samples for EMSL Kit 133268**

| Liquid Scintillation ID | Location | Radon Activity pCi/L | Start | Stop | Temperature F | Humidity % | Sample Type |
|--------------------------|-------------------------------------|-------------------------|-------------------------|--------------------------|------------------|---------------|-------------|
| 225579 381509976-0007 | Classroom B108 N. Side- Shelf 6' | 3.6 | 12/8/2015 3:00:00 PM | 12/11/2015 7:58:00 AM | 74 | 30 | Customer |

Sample Notes:

| | | | | | | | |
|--------------------------|-------------------------------------|-----|-------------------------|--------------------------|----|----|----------|
| 225716 381509976-0008 | Classroom B108 N. Side- Shelf 6' | 3.3 | 12/8/2015 3:00:00 PM | 12/11/2015 7:58:00 AM | 74 | 30 | Customer |
|--------------------------|-------------------------------------|-----|-------------------------|--------------------------|----|----|----------|

Sample Notes:

Summary for EMSL Kit 133268 **Average Radon Result: 3.4 pCi/L**

Samples for EMSL Kit 133269

| Liquid Scintillation ID | Location | Radon Activity pCi/L | Start | Stop | Temperature F | Humidity % | Sample Type |
|--------------------------|-----------------------------------|-------------------------|-------------------------|--------------------------|------------------|---------------|-------------|
| 225721 381509976-0009 | Office B108C W. Side- Shelf 5' | 2.2 | 12/8/2015 3:02:00 PM | 12/11/2015 7:59:00 AM | 76 | 30 | Customer |

Sample Notes:

| | | | | | | | |
|--------------------------|-----------------------------------|---|-------------------------|--------------------------|----|----|----------|
| 225689 381509976-0010 | Office B108C W. Side- Shelf 5' | 2 | 12/8/2015 3:02:00 PM | 12/11/2015 7:59:00 AM | 76 | 30 | Customer |
|--------------------------|-----------------------------------|---|-------------------------|--------------------------|----|----|----------|

Sample Notes:

Summary for EMSL Kit 133269 **Average Radon Result: 2.1 pCi/L**

Samples for EMSL Kit 133260

| Liquid Scintillation ID | Location | Radon Activity pCi/L | Start | Stop | Temperature F | Humidity % | Sample Type |
|--------------------------|--|-------------------------|-------------------------|--------------------------|------------------|---------------|-------------|
| 225501 381509976-0011 | Special Ed Classrm B105 S Side-File Cabinet 4 1/2' | 2.6 | 12/8/2015 3:12:00 PM | 12/11/2015 7:46:00 AM | 74 | 40 | Customer |

Sample Notes:

| | | | | | | | |
|--------------------------|--|-----|-------------------------|--------------------------|----|----|----------|
| 225535 381509976-0012 | Special Ed Classrm B105 S Side-File Cabinet 4 1/2' | 2.4 | 12/8/2015 3:12:00 PM | 12/11/2015 7:46:00 AM | 74 | 40 | Customer |
|--------------------------|--|-----|-------------------------|--------------------------|----|----|----------|

Sample Notes:

Summary for EMSL Kit 133260 **Average Radon Result: 2.5 pCi/L**

**EMSL Analytical, Inc.**

200 Route 130 North, Cinnaminson, NJ 08077
 Phone/Fax: (800) 220-3675 / (856) 786-0327
<http://www.EMSL.com> cinnaminsonradonlab@emsl.com

EMSL Order: 381509976
 CustomerID: LEID42
 CustomerPO:
 ProjectID:

Attn: **John Whelpley**
Leidos Engineering, LLC
11951 Freedom Dr.
Reston, VA 20190

Phone: (571) 268-0697
 Fax:
 Received: 12/15/15 12:34 PM
 Analysis Date: 12/17/2015
 Collected: 12/8/2015

Project: **Spring Brook High School / 201 Valley Brook Drive**

Test Site: **Spring Brook High School**
201 Valley Brook Drive
Silver Spring, MD 20904

Test Report: Radon in Air Test Results**Samples for EMSL Kit 133276**

| Liquid Scintillation ID | Location | Radon Activity pCi/L | Start | Stop | Temperature F | Humidity % | Sample Type |
|-------------------------|----------|-------------------------|------------|------------|------------------|---------------|-------------|
| 225540 | D | 2.7 | 12/8/2015 | 12/11/2015 | 74 | 40 | Customer |
| 381509976-0013 | | | 3:16:00 PM | 7:47:00 AM | | | |

Sample Notes:

| | | | | | | | |
|----------------|---|-----|------------|------------|----|----|----------|
| 225690 | D | 2.7 | 12/8/2015 | 12/11/2015 | 74 | 40 | Customer |
| 381509976-0014 | | | 3:16:00 PM | 7:47:00 AM | | | |

Sample Notes:

Summary for EMSL Kit 133276 **Average Radon Result: 2.7 pCi/L**

Samples for EMSL Kit 133277

| Liquid Scintillation ID | Location | Radon Activity pCi/L | Start | Stop | Temperature F | Humidity % | Sample Type |
|-------------------------|--|-------------------------|------------|------------|------------------|---------------|-------------|
| 225508 | Classroom E115 N.Side- 5 1/2 Door Jamb | 0.3 | 12/8/2015 | 12/11/2015 | 68 | 30 | Customer |
| 381509976-0015 | | | 3:24:00 PM | 8:08:00 AM | | | |

Sample Notes: Device fell during testing, was retrieved partially closed.

| | | | | | | | |
|----------------|---|-----|------------|------------|----|----|----------|
| 225703 | Classroom E115 N.Side- 5 1/2' Door Jamb | 0.4 | 12/8/2015 | 12/11/2015 | 68 | 30 | Customer |
| 381509976-0016 | | | 3:24:00 PM | 8:08:00 AM | | | |

Sample Notes:

Summary for EMSL Kit 133277 **Average Radon Result: 0.4 pCi/L**

Samples for EMSL Kit 133258

| Liquid Scintillation ID | Location | Radon Activity pCi/L | Start | Stop | Temperature F | Humidity % | Sample Type |
|-------------------------|-----------------------------------|-------------------------|------------|------------|------------------|---------------|-------------|
| 225575 | Classroom G2 S. Side- Shelf 6' | 1.6 | 12/8/2015 | 12/11/2015 | 64 | 30 | Customer |
| 381509976-0017 | | | 3:47:00 PM | 6:52:00 AM | | | |

Sample Notes:

| | | | | | | | |
|----------------|-----------------------------------|-----|------------|------------|----|----|----------|
| 225712 | Classroom G2 S. Side- Shelf 6' | 1.7 | 12/8/2015 | 12/11/2015 | 64 | 30 | Customer |
| 381509976-0018 | | | 3:47:00 PM | 6:52:00 AM | | | |

Sample Notes:

Summary for EMSL Kit 133258 **Average Radon Result: 1.7 pCi/L**

**EMSL Analytical, Inc.**

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 Phone/Fax: (800) 220-3675 / (856) 786-0327
<http://www.EMSL.com> cinnaminsonradonlab@emsl.com

EMSL Order: 381509976
 CustomerID: LEID42
 CustomerPO:
 ProjectID:

Attn: **John Whelpley**
Leidos Engineering, LLC
11951 Freedom Dr.
Reston, VA 20190

Phone: (571) 268-0697
 Fax:
 Received: 12/15/15 12:34 PM
 Analysis Date: 12/17/2015
 Collected: 12/8/2015

Project: **Spring Brook High School / 201 Valley Brook Drive**

Test Site: **Spring Brook High School**
201 Valley Brook Drive
Silver Spring, MD 20904

Test Report: Radon in Air Test Results**Samples for EMSL Kit 133273**

| Liquid Scintillation ID | Location | Radon Activity pCi/L | Start | Stop | Temperature F | Humidity % | Sample Type |
|--------------------------|---------------------------------|-------------------------|-------------------------|--------------------------|------------------|---------------|-------------|
| 225773 381509976-0019 | ClassroomG1 W. Side Shelf 6' | 2.2 | 12/8/2015 3:51:00 PM | 12/11/2015 6:53:00 AM | 66 | 40 | Customer |

Sample Notes:

| | | | | | | | |
|--------------------------|---------------------------------|-----|-------------------------|--------------------------|----|----|----------|
| 225509 381509976-0020 | ClassroomG1 W. Side Shelf 6' | 2.3 | 12/8/2015 3:51:00 PM | 12/11/2015 6:53:00 AM | 66 | 40 | Customer |
|--------------------------|---------------------------------|-----|-------------------------|--------------------------|----|----|----------|

Sample Notes:

Summary for EMSL Kit 133273 Average Radon Result: 2.3 pCi/L

Samples for EMSL Kit 133257

| Liquid Scintillation ID | Location | Radon Activity pCi/L | Start | Stop | Temperature F | Humidity % | Sample Type |
|--------------------------|--|-------------------------|-------------------------|--------------------------|------------------|---------------|-------------|
| 225741 381509976-0021 | Classroom G11 S. Side- White Board 6' | 2 | 12/8/2015 4:00:00 PM | 12/11/2015 6:55:00 AM | 66 | 30 | Customer |

Sample Notes:

| | | | | | | | |
|--------------------------|--|-----|-------------------------|--------------------------|----|----|----------|
| 225708 381509976-0022 | Classroom G11 S. Side- White Board 6' | 1.7 | 12/8/2015 4:00:00 PM | 12/11/2015 6:55:00 AM | 66 | 30 | Customer |
|--------------------------|--|-----|-------------------------|--------------------------|----|----|----------|

Sample Notes:

Summary for EMSL Kit 133257 Average Radon Result: 1.9 pCi/L

Samples for EMSL Kit 133261

| Liquid Scintillation ID | Location | Radon Activity pCi/L | Start | Stop | Temperature F | Humidity % | Sample Type |
|--------------------------|---|-------------------------|-------------------------|--------------------------|------------------|---------------|-------------|
| 225576 381509976-0023 | Classroom G12 N.Side- Book Shelf 4 1/2' | 3.8 | 12/8/2015 4:02:00 PM | 12/11/2015 6:57:00 AM | 68 | 70 | Customer |

Sample Notes:

| | | | | | | | |
|--------------------------|---|-----|-------------------------|--------------------------|----|----|----------|
| 225420 381509976-0024 | Classroom G12 N.Side- Book Shelf 4 1/2' | 3.5 | 12/8/2015 4:02:00 PM | 12/11/2015 6:57:00 AM | 68 | 70 | Customer |
|--------------------------|---|-----|-------------------------|--------------------------|----|----|----------|

Sample Notes:

Summary for EMSL Kit 133261 Average Radon Result: 3.7 pCi/L

**EMSL Analytical, Inc.**

200 Route 130 North, Cinnaminson, NJ 08077
 Phone/Fax: (800) 220-3675 / (856) 786-0327
<http://www.EMSL.com> cinnaminsonradonlab@emsl.com

EMSL Order: 381509976
 CustomerID: LEID42
 CustomerPO:
 ProjectID:

Attn: **John Whelpley**
Leidos Engineering, LLC
11951 Freedom Dr.
Reston, VA 20190

Phone: (571) 268-0697
 Fax:
 Received: 12/15/15 12:34 PM
 Analysis Date: 12/17/2015
 Collected: 12/8/2015

Project: **Spring Brook High School / 201 Valley Brook Drive**

Test Site: **Spring Brook High School**
201 Valley Brook Drive
Silver Spring, MD 20904

Test Report: Radon in Air Test Results**Samples for EMSL Kit 133244**

| Liquid Scintillation ID | Location | Radon Activity pCi/L | Start | Stop | Temperature F | Humidity % | Sample Type |
|--------------------------|----------------------------------|-------------------------|-------------------------|--------------------------|------------------|---------------|-------------|
| 225696 381509976-0025 | Lab G101 NW. Sode Rye Wash 6' | 2.3 | 12/8/2015 4:16:00 PM | 12/11/2015 6:59:00 AM | 74 | 30 | Customer |

Sample Notes:

| | | | | | | | |
|--------------------------|----------------------------------|-----|-------------------------|--------------------------|----|----|----------|
| 225766 381509976-0026 | Lab G101 NW. Sode Rye Wash 6' | 2.1 | 12/8/2015 4:16:00 PM | 12/11/2015 6:59:00 AM | 74 | 30 | Customer |
|--------------------------|----------------------------------|-----|-------------------------|--------------------------|----|----|----------|

Sample Notes:

Summary for EMSL Kit 133244 **Average Radon Result: 2.2 pCi/L**

Samples for EMSL Kit 133243

| Liquid Scintillation ID | Location | Radon Activity pCi/L | Start | Stop | Temperature F | Humidity % | Sample Type |
|--------------------------|------------------------------|-------------------------|-------------------------|--------------------------|------------------|---------------|-------------|
| 225429 381509976-0027 | Lab G106 SE. Side S.S. 6' | 1.4 | 12/8/2015 4:23:00 PM | 12/11/2015 6:45:00 AM | 76 | 30 | Customer |

Sample Notes:

| | | | | | | | |
|--------------------------|------------------------------|-----|-------------------------|--------------------------|----|----|----------|
| 225686 381509976-0028 | Lab G106 SE. Side S.S. 6' | 1.6 | 12/8/2015 4:23:00 PM | 12/11/2015 6:45:00 AM | 76 | 30 | Customer |
|--------------------------|------------------------------|-----|-------------------------|--------------------------|----|----|----------|

Sample Notes:

Summary for EMSL Kit 133243 **Average Radon Result: 1.5 pCi/L**

Samples for EMSL Kit 133236

| Liquid Scintillation ID | Location | Radon Activity pCi/L | Start | Stop | Temperature F | Humidity % | Sample Type |
|--------------------------|-------------------------------|-------------------------|-------------------------|--------------------------|------------------|---------------|-------------|
| 225592 381509976-0029 | Lab G105 NW. Side Shelf 6' | 1.7 | 12/8/2015 4:28:00 PM | 12/11/2015 6:47:00 AM | 68 | 40 | Customer |

Sample Notes:

| | | | | | | | |
|--------------------------|-------------------------------|-----|-------------------------|--------------------------|----|----|----------|
| 225794 381509976-0030 | Lab G105 NW. Side Shelf 6' | 1.4 | 12/8/2015 4:28:00 PM | 12/11/2015 6:47:00 AM | 68 | 40 | Customer |
|--------------------------|-------------------------------|-----|-------------------------|--------------------------|----|----|----------|

Sample Notes:

Summary for EMSL Kit 133236 **Average Radon Result: 1.5 pCi/L**

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 Phone/Fax: (800) 220-3675 / (856) 786-0327
<http://www.EMSL.com> cinnaminsonradonlab@emsl.com

EMSL Order: 381509976
 CustomerID: LEID42
 CustomerPO:
 ProjectID:

Attn: **John Whelpley**
Leidos Engineering, LLC
11951 Freedom Dr.
Reston, VA 20190

Phone: (571) 268-0697
 Fax:
 Received: 12/15/15 12:34 PM
 Analysis Date: 12/17/2015
 Collected: 12/8/2015

Project: **Spring Brook High School / 201 Valley Brook Drive**

Test Site: **Spring Brook High School**
201 Valley Brook Drive
Silver Spring, MD 20904

Test Report: Radon in Air Test Results**Samples for EMSL Kit 133235**

| Liquid Scintillation ID | Location | Radon Activity pCi/L | Start | Stop | Temperature F | Humidity % | Sample Type |
|-------------------------|----------|-------------------------|------------|------------|------------------|---------------|-------------|
| 225730 | D | 1.4 | 12/8/2015 | 12/11/2015 | 68 | 40 | Customer |
| 381509976-0031 | | | 4:30:00 PM | 6:48:00 AM | | | |

Sample Notes:

| | | | | | | | |
|----------------|---|-----|------------|------------|----|----|----------|
| 225578 | D | 1.3 | 12/8/2015 | 12/11/2015 | 68 | 40 | Customer |
| 381509976-0032 | | | 4:30:00 PM | 6:48:00 AM | | | |

Sample Notes:

Summary for EMSL Kit 133235 **Average Radon Result: 1.3 pCi/L**

Samples for EMSL Kit 133242

| Liquid Scintillation ID | Location | Radon Activity pCi/L | Start | Stop | Temperature F | Humidity % | Sample Type |
|-------------------------|----------------------------|-------------------------|------------|------------|------------------|---------------|-------------|
| 225503 | Lab G109 SE. Side Shelf 6' | 3.5 | 12/8/2015 | 12/11/2015 | 68 | 60 | Customer |
| 381509976-0033 | | | 4:37:00 PM | 6:42:00 AM | | | |

Sample Notes:

| | | | | | | | |
|----------------|----------------------------|-----|------------|------------|----|----|----------|
| 225528 | Lab G109 SE. Side Shelf 6' | 3.5 | 12/8/2015 | 12/11/2015 | 68 | 60 | Customer |
| 381509976-0034 | | | 4:37:00 PM | 6:42:00 AM | | | |

Sample Notes:

Summary for EMSL Kit 133242 **Average Radon Result: 3.5 pCi/L**

Samples for EMSL Kit 133252

| Liquid Scintillation ID | Location | Radon Activity pCi/L | Start | Stop | Temperature F | Humidity % | Sample Type |
|-------------------------|----------------------------|-------------------------|------------|------------|------------------|---------------|-------------|
| 225577 | Lab G108 NW. Side-Shelf 6' | 4.5 | 12/8/2015 | 12/11/2015 | 78 | 70 | Customer |
| 381509976-0035 | | | 4:43:00 PM | 6:41:00 AM | | | |

Sample Notes:

| | | | | | | | |
|----------------|----------------------------|-----|------------|------------|----|----|----------|
| 225392 | Lab G108 NW. Side-Shelf 6' | 4.8 | 12/8/2015 | 12/11/2015 | 78 | 70 | Customer |
| 381509976-0036 | | | 4:43:00 PM | 6:41:00 AM | | | |

Sample Notes:

Summary for EMSL Kit 133252 **Average Radon Result: 4.7 pCi/L**

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Phone/Fax: (800) 220-3675 / (856) 786-0327

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EMSL Order: 381509976

CustomerID: LEID42

CustomerPO:

ProjectID:

Attn: **John Whelpley**
Leidos Engineering, LLC
11951 Freedom Dr.
Reston, VA 20190

Phone: (571) 268-0697
 Fax:
 Received: 12/15/15 12:34 PM
 Analysis Date: 12/17/2015
 Collected: 12/8/2015

Project: **Spring Brook High School / 201 Valley Brook Drive**

Test Site: **Spring Brook High School**
201 Valley Brook Drive
Silver Spring, MD 20904

Test Report: Radon in Air Test Results**Samples for EMSL Kit 133253**

| Liquid Scintillation ID | Location | Radon Activity pCi/L | Start | Stop | Temperature F | Humidity % | Sample Type |
|--------------------------|----------------------------|-------------------------|-------------------------|--------------------------|------------------|---------------|-------------|
| 225912 381509976-0037 | Lab G110 SW. Side-Shelf 6' | 3.9 | 12/8/2015 4:48:00 PM | 12/11/2015 6:39:00 AM | 72 | 30 | Customer |

Sample Notes:

| | | | | | | | |
|--------------------------|----------------------------|-----|-------------------------|--------------------------|----|----|----------|
| 225599 381509976-0038 | Lab G110 SW. Side-Shelf 6' | 3.9 | 12/8/2015 4:48:00 PM | 12/11/2015 6:39:00 AM | 72 | 30 | Customer |
|--------------------------|----------------------------|-----|-------------------------|--------------------------|----|----|----------|

Sample Notes:**Summary for EMSL Kit 133253 Average Radon Result: 3.9 pCi/L****Samples for EMSL Kit 133234**

| Liquid Scintillation ID | Location | Radon Activity pCi/L | Start | Stop | Temperature F | Humidity % | Sample Type |
|--------------------------|---|-------------------------|-------------------------|--------------------------|------------------|---------------|-------------|
| 225506 381509976-0040 | Classroom F109 SE. Side- Teacher Compter 4' | 3.1 | 12/8/2015 5:02:00 PM | 12/11/2015 7:08:00 AM | 72 | 30 | Customer |

Sample Notes:

| | | | | | | | |
|--------------------------|---|-----|-------------------------|--------------------------|----|----|----------|
| 225770 381509976-0041 | Classroom F109 SE. Side- Teacher Compter 4' | 3.7 | 12/8/2015 5:02:00 PM | 12/11/2015 7:08:00 AM | 72 | 30 | Customer |
|--------------------------|---|-----|-------------------------|--------------------------|----|----|----------|

Sample Notes:**Summary for EMSL Kit 133234 Average Radon Result: 3.4 pCi/L****Samples for EMSL Kit 133238**

| Liquid Scintillation ID | Location | Radon Activity pCi/L | Start | Stop | Temperature F | Humidity % | Sample Type |
|--------------------------|---------------------------|-------------------------|-------------------------|--------------------------|------------------|---------------|-------------|
| 225697 381509976-0042 | Lab F106 E. Side-Shelf 6' | 4.3 | 12/8/2015 5:10:00 PM | 12/11/2015 7:04:00 AM | 68 | 30 | Customer |

Sample Notes:

| | | | | | | | |
|--------------------------|---------------------------|-----|-------------------------|--------------------------|----|----|----------|
| 225795 381509976-0043 | Lab F106 E. Side-Shelf 6' | 4.3 | 12/8/2015 5:10:00 PM | 12/11/2015 7:04:00 AM | 68 | 30 | Customer |
|--------------------------|---------------------------|-----|-------------------------|--------------------------|----|----|----------|

Sample Notes:**Summary for EMSL Kit 133238 Average Radon Result: 4.3 pCi/L**

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 Phone/Fax: (800) 220-3675 / (856) 786-0327
<http://www.EMSL.com> cinnaminsonradonlab@emsl.com

EMSL Order: 381509976
 CustomerID: LEID42
 CustomerPO:
 ProjectID:

Attn: **John Whelpley**
Leidos Engineering, LLC
11951 Freedom Dr.
Reston, VA 20190

Phone: (571) 268-0697
 Fax:
 Received: 12/15/15 12:34 PM
 Analysis Date: 12/17/2015
 Collected: 12/8/2015

Project: **Spring Brook High School / 201 Valley Brook Drive**

Test Site: **Spring Brook High School**
201 Valley Brook Drive
Silver Spring, MD 20904

Test Report: Radon in Air Test Results**Samples for EMSL Kit 133222**

| Liquid Scintillation ID | Location | Radon Activity pCi/L | Start | Stop | Temperature F | Humidity % | Sample Type |
|-------------------------|------------------------------|-------------------------|------------|------------|------------------|---------------|-------------|
| 225751 | Classroom F107 NE. | 4 | 12/8/2015 | 12/11/2015 | 72 | 30 | Customer |
| 381509976-0044 | Side- Teacher Computer 3' | | 5:13:00 PM | 7:10:00 AM | | | |

Sample Notes:

| | | | | | | | |
|----------------|------------------------------|-----|------------|------------|----|----|----------|
| 225725 | Classroom F107 NE. | 4.4 | 12/8/2015 | 12/11/2015 | 72 | 30 | Customer |
| 381509976-0045 | Side- Teacher Computer 3' | | 5:13:00 PM | 7:10:00 AM | | | |

Sample Notes:

Summary for EMSL Kit 133222 **Average Radon Result: 4.2 pCi/L**

Samples for EMSL Kit 133250

| Liquid Scintillation ID | Location | Radon Activity pCi/L | Start | Stop | Temperature F | Humidity % | Sample Type |
|-------------------------|-----------------------|-------------------------|------------|------------|------------------|---------------|-------------|
| 225728 | Classroom F105 SW. | 6.3 | 12/8/2015 | 12/11/2015 | 72 | 40 | Customer |
| 381509976-0046 | Side- File Cabinet 5' | | 5:21:00 PM | 7:12:00 AM | | | |

Sample Notes:

| | | | | | | | |
|----------------|-----------------------|-----|------------|------------|----|----|----------|
| 225568 | Classroom F105 SW. | 3.6 | 12/8/2015 | 12/11/2015 | 72 | 40 | Customer |
| 381509976-0047 | Side- File Cabinet 5' | | 5:21:00 PM | 7:12:00 AM | | | |

Sample Notes: Radon device was tampered with during testing, found partially closed.

Summary for EMSL Kit 133250 **Average Radon Result: 4.9 pCi/L**

Samples for EMSL Kit 133245

| Liquid Scintillation ID | Location | Radon Activity pCi/L | Start | Stop | Temperature F | Humidity % | Sample Type |
|-------------------------|---------------------|-------------------------|------------|------------|------------------|---------------|-------------|
| 225797 | Classroom F103 SW. | 3.2 | 12/8/2015 | 12/11/2015 | 70 | 60 | Customer |
| 381509976-0048 | Side- Chalkboard 3' | | 5:25:00 PM | 7:17:00 AM | | | |

Sample Notes:

| | | | | | | | |
|----------------|---------------------|-----|------------|------------|----|----|----------|
| 2225552 | Classroom F103 SW. | 2.8 | 12/8/2015 | 12/11/2015 | 70 | 60 | Customer |
| 381509976-0049 | Side- Chalkboard 3' | | 5:25:00 PM | 7:17:00 AM | | | |

Sample Notes:

Summary for EMSL Kit 133245 **Average Radon Result: 3.0 pCi/L**

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200 Route 130 North, Cinnaminson, NJ 08077
 Phone/Fax: (800) 220-3675 / (856) 786-0327
<http://www.EMSL.com> cinnaminsonradonlab@emsl.com

EMSL Order: 381509976
 CustomerID: LEID42
 CustomerPO:
 ProjectID:

Attn: **John Whelpley**
Leidos Engineering, LLC
11951 Freedom Dr.
Reston, VA 20190

Phone: (571) 268-0697
 Fax:
 Received: 12/15/15 12:34 PM
 Analysis Date: 12/17/2015
 Collected: 12/8/2015

Project: **Spring Brook High School / 201 Valley Brook Drive**

Test Site: **Spring Brook High School**
201 Valley Brook Drive
Silver Spring, MD 20904

Test Report: Radon in Air Test Results**Samples for EMSL Kit 133246**

| Liquid Scintillation ID | Location | Radon Activity pCi/L | Start | Stop | Temperature F | Humidity % | Sample Type |
|-------------------------|----------|-------------------------|------------|------------|------------------|---------------|-------------|
| 225584 | B | 0.2 | 12/8/2015 | 12/11/2015 | 72 | 40 | Customer |
| 381509976-0050 | | | 5:27:00 PM | 7:15:00 AM | | | |

Sample Notes:

| | | | | | | | |
|----------------|---|-----|------------|------------|----|----|----------|
| 225522 | B | 0.1 | 12/8/2015 | 12/11/2015 | 72 | 40 | Customer |
| 381509976-0051 | | | 5:27:00 PM | 7:15:00 AM | | | |

Sample Notes:

Summary for EMSL Kit 133246 Average Radon Result: **0.2 pCi/L**

Samples for EMSL Kit 133249

| Liquid Scintillation ID | Location | Radon Activity pCi/L | Start | Stop | Temperature F | Humidity % | Sample Type |
|-------------------------|-------------------------------|-------------------------|------------|------------|------------------|---------------|-------------|
| 225520 | Office F104 NE. Side Shelf 5' | 2.3 | 12/8/2015 | 12/11/2015 | 68 | 30 | Customer |
| 381509976-0052 | | | 5:40:00 PM | 7:04:00 AM | | | |

Sample Notes:

| | | | | | | | |
|----------------|-------------------------------|-----|------------|------------|----|----|----------|
| 225684 | Office F104 NE. Side Shelf 5' | 2.7 | 12/8/2015 | 12/11/2015 | 68 | 30 | Customer |
| 381509976-0053 | | | 5:40:00 PM | 7:04:00 AM | | | |

Sample Notes:

Summary for EMSL Kit 133249 Average Radon Result: **2.5 pCi/L**

Samples for EMSL Kit 133248

| Liquid Scintillation ID | Location | Radon Activity pCi/L | Start | Stop | Temperature F | Humidity % | Sample Type |
|-------------------------|----------|-------------------------|------------|------------|------------------|---------------|-------------|
| 225711 | D | 2.4 | 12/8/2015 | 12/11/2015 | 68 | 30 | Customer |
| 381509976-0054 | | | 5:42:00 PM | 7:08:00 AM | | | |

Sample Notes:

| | | | | | | | |
|----------------|---|-----|------------|------------|----|----|----------|
| 225726 | D | 2.6 | 12/8/2015 | 12/11/2015 | 68 | 30 | Customer |
| 381509976-0055 | | | 5:42:00 PM | 7:08:00 AM | | | |

Sample Notes:

Summary for EMSL Kit 133248 Average Radon Result: **2.5 pCi/L**

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200 Route 130 North, Cinnaminson, NJ 08077

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<http://www.EMSL.com>cinnaminsonradonlab@emsl.com

EMSL Order: 381509976

CustomerID: LEID42

CustomerPO:

ProjectID:

Attn: **John Whelpley**
Leidos Engineering, LLC
11951 Freedom Dr.
Reston, VA 20190

Phone: (571) 268-0697
 Fax:
 Received: 12/15/15 12:34 PM
 Analysis Date: 12/17/2015
 Collected: 12/8/2015

Project: **Spring Brook High School / 201 Valley Brook Drive**

Test Site: **Spring Brook High School**
201 Valley Brook Drive
Silver Spring, MD 20904

Test Report: Radon in Air Test Results**Samples for EMSL Kit 133247**

| Liquid Scintillation ID | Location | Radon Activity pCi/L | Start | Stop | Temperature F | Humidity % | Sample Type |
|--------------------------|---|-------------------------|-------------------------|--------------------------|------------------|---------------|-------------|
| 225735 381509976-0056 | Classroom F102 SW. Side Teacher Computer 3' | 1.3 | 12/8/2015 5:46:00 PM | 12/11/2015 7:15:00 AM | 68 | 40 | Customer |

Sample Notes:

| | | | | | | | |
|--------------------------|---|-----|-------------------------|--------------------------|----|----|----------|
| 225793 381509976-0057 | Classroom F102 SW. Side Teacher Computer 3' | 1.7 | 12/8/2015 5:46:00 PM | 12/11/2015 7:15:00 AM | 68 | 40 | Customer |
|--------------------------|---|-----|-------------------------|--------------------------|----|----|----------|

Sample Notes:**Summary for EMSL Kit 133247 Average Radon Result: 1.5 pCi/L****Samples for EMSL Kit 133237**

| Liquid Scintillation ID | Location | Radon Activity pCi/L | Start | Stop | Temperature F | Humidity % | Sample Type |
|--------------------------|---------------------------------------|-------------------------|-------------------------|--------------------------|------------------|---------------|-------------|
| 225591 381509976-0058 | Classroom F101 SW Side Credenza 3' | 1.4 | 12/8/2015 5:51:00 PM | 12/11/2015 7:16:00 AM | 64 | 50 | Customer |

Sample Notes:

| | | | | | | | |
|--------------------------|---------------------------------------|-----|-------------------------|--------------------------|----|----|----------|
| 225596 381509976-0059 | Classroom F101 SW Side Credenza 3' | 1.4 | 12/8/2015 5:51:00 PM | 12/11/2015 7:16:00 AM | 64 | 50 | Customer |
|--------------------------|---------------------------------------|-----|-------------------------|--------------------------|----|----|----------|

Sample Notes:**Summary for EMSL Kit 133237 Average Radon Result: 1.4 pCi/L****Samples for EMSL Kit 133241**

| Liquid Scintillation ID | Location | Radon Activity pCi/L | Start | Stop | Temperature F | Humidity % | Sample Type |
|--------------------------|--|-------------------------|-------------------------|--------------------------|------------------|---------------|-------------|
| 225784 381509976-0060 | Class E117 NE. Side File Cabinet 4' | 1.9 | 12/8/2015 5:58:00 PM | 12/11/2015 7:18:00 AM | 68 | 30 | Customer |

Sample Notes:

| | | | | | | | |
|--------------------------|--|-----|-------------------------|--------------------------|----|----|----------|
| 225567 381509976-0061 | Class E117 NE. Side File Cabinet 4' | 1.8 | 12/8/2015 5:58:00 PM | 12/11/2015 7:18:00 AM | 68 | 30 | Customer |
|--------------------------|--|-----|-------------------------|--------------------------|----|----|----------|

Sample Notes:**Summary for EMSL Kit 133241 Average Radon Result: 1.8 pCi/L**

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 Phone/Fax: (800) 220-3675 / (856) 786-0327
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EMSL Order: 381509976
 CustomerID: LEID42
 CustomerPO:
 ProjectID:

Attn: **John Whelpley**
Leidos Engineering, LLC
11951 Freedom Dr.
Reston, VA 20190

Phone: (571) 268-0697
 Fax:
 Received: 12/15/15 12:34 PM
 Analysis Date: 12/17/2015
 Collected: 12/8/2015

Project: **Spring Brook High School / 201 Valley Brook Drive**

Test Site: **Spring Brook High School**
201 Valley Brook Drive
Silver Spring, MD 20904

Test Report: Radon in Air Test Results**Samples for EMSL Kit 133232**

| Liquid Scintillation ID | Location | Radon Activity pCi/L | Start | Stop | Temperature F | Humidity % | Sample Type |
|--------------------------|-------------------------------------|-------------------------|-------------------------|--------------------------|------------------|---------------|-------------|
| 225531 381509976-0062 | Classroom E118 NW. Side Shelf 6' | 2.5 | 12/8/2015 6:03:00 PM | 12/11/2015 7:23:00 AM | 76 | 40 | Customer |

Sample Notes:

| | | | | | | | |
|--------------------------|-------------------------------------|-----|-------------------------|--------------------------|----|----|----------|
| 225839 381509976-0063 | Classroom E118 NW. Side Shelf 6' | 2.9 | 12/8/2015 6:03:00 PM | 12/11/2015 7:23:00 AM | 76 | 40 | Customer |
|--------------------------|-------------------------------------|-----|-------------------------|--------------------------|----|----|----------|

Sample Notes:

Summary for EMSL Kit 133232 **Average Radon Result: 2.7 pCi/L**

Samples for EMSL Kit 133240

| Liquid Scintillation ID | Location | Radon Activity pCi/L | Start | Stop | Temperature F | Humidity % | Sample Type |
|--------------------------|--|-------------------------|-------------------------|--------------------------|------------------|---------------|-------------|
| 225760 381509976-0064 | Classroom E111 SE Side. Shelf 6 1/2 | 8.9 | 12/8/2015 6:13:00 PM | 12/11/2015 7:21:00 AM | 72 | 30 | Customer |

Sample Notes:

| | | | | | | | |
|--------------------------|--|-----|-------------------------|--------------------------|----|----|----------|
| 225771 381509976-0065 | Classroom E111 SE Side. Shelf 6 1/2 | 8.5 | 12/8/2015 6:13:00 PM | 12/11/2015 7:21:00 AM | 72 | 30 | Customer |
|--------------------------|--|-----|-------------------------|--------------------------|----|----|----------|

Sample Notes:

Summary for EMSL Kit 133240 **Average Radon Result: 8.7 pCi/L**

Samples for EMSL Kit 133230

| Liquid Scintillation ID | Location | Radon Activity pCi/L | Start | Stop | Temperature F | Humidity % | Sample Type |
|--------------------------|------------------------------------|-------------------------|-------------------------|--------------------------|------------------|---------------|-------------|
| 225855 381509976-0066 | Day Care E108 SE. Side Shelf 6' | 4.5 | 12/8/2015 6:18:00 PM | 12/11/2015 7:35:00 AM | 72 | 30 | Customer |

Sample Notes:

| | | | | | | | |
|--------------------------|------------------------------------|-----|-------------------------|--------------------------|----|----|----------|
| 225758 381509976-0067 | Day Care E108 SE. Side Shelf 6' | 4.7 | 12/8/2015 6:18:00 PM | 12/11/2015 7:35:00 AM | 72 | 30 | Customer |
|--------------------------|------------------------------------|-----|-------------------------|--------------------------|----|----|----------|

Sample Notes:

Summary for EMSL Kit 133230 **Average Radon Result: 4.6 pCi/L**

**EMSL Analytical, Inc.**

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 Phone/Fax: (800) 220-3675 / (856) 786-0327
<http://www.EMSL.com> cinnaminsonradonlab@emsl.com

EMSL Order: 381509976
 CustomerID: LEID42
 CustomerPO:
 ProjectID:

Attn: **John Whelpley**
Leidos Engineering, LLC
11951 Freedom Dr.
Reston, VA 20190

Phone: (571) 268-0697
 Fax:
 Received: 12/15/15 12:34 PM
 Analysis Date: 12/17/2015
 Collected: 12/8/2015

Project: **Spring Brook High School / 201 Valley Brook Drive**

Test Site: **Spring Brook High School**
201 Valley Brook Drive
Silver Spring, MD 20904

Test Report: Radon in Air Test Results**Samples for EMSL Kit 133227**

| Liquid Scintillation ID | Location | Radon Activity pCi/L | Start | Stop | Temperature F | Humidity % | Sample Type |
|--------------------------|-----------------------------------|-------------------------|-------------------------|--------------------------|------------------|---------------|-------------|
| 225521 381509976-0068 | Office E107 SW. Side- Shelf 6' | 1.4 | 12/8/2015 6:24:00 PM | 12/11/2015 7:30:00 AM | 68 | 40 | Customer |

Sample Notes:

| | | | | | | | |
|--------------------------|-----------------------------------|-----|-------------------------|--------------------------|----|----|----------|
| 225529 381509976-0069 | Office E107 SW. Side- Shelf 6' | 1.6 | 12/8/2015 6:24:00 PM | 12/11/2015 7:30:00 AM | 68 | 40 | Customer |
|--------------------------|-----------------------------------|-----|-------------------------|--------------------------|----|----|----------|

Sample Notes:

Summary for EMSL Kit 133227 **Average Radon Result: 1.5 pCi/L**

Samples for EMSL Kit 133225

| Liquid Scintillation ID | Location | Radon Activity pCi/L | Start | Stop | Temperature F | Humidity % | Sample Type |
|--------------------------|--|-------------------------|-------------------------|--------------------------|------------------|---------------|-------------|
| 225705 381509976-0070 | Class E105 NW Side- File Cabinet 4' | 2.7 | 12/8/2015 6:31:00 PM | 12/11/2015 7:32:00 AM | 74 | 30 | Customer |

Sample Notes:

| | | | | | | | |
|--------------------------|--|-----|-------------------------|--------------------------|----|----|----------|
| 225565 381509976-0071 | Class E105 NW Side- File Cabinet 4' | 2.4 | 12/8/2015 6:31:00 PM | 12/11/2015 7:32:00 AM | 74 | 30 | Customer |
|--------------------------|--|-----|-------------------------|--------------------------|----|----|----------|

Sample Notes:

Summary for EMSL Kit 133225 **Average Radon Result: 2.6 pCi/L**

Samples for EMSL Kit 133231

| Liquid Scintillation ID | Location | Radon Activity pCi/L | Start | Stop | Temperature F | Humidity % | Sample Type |
|--------------------------|-----------------------------------|-------------------------|-------------------------|--------------------------|------------------|---------------|-------------|
| 225719 381509976-0072 | Classroom E106 W. Side Shelf6' | 1.6 | 12/8/2015 6:36:00 PM | 12/11/2015 7:35:00 AM | 72 | 30 | Customer |

Sample Notes:

| | | | | | | | |
|--------------------------|-----------------------------------|-----|-------------------------|--------------------------|----|----|----------|
| 225767 381509976-0073 | Classroom E106 W. Side Shelf6' | 1.8 | 12/8/2015 6:36:00 PM | 12/11/2015 7:35:00 AM | 72 | 30 | Customer |
|--------------------------|-----------------------------------|-----|-------------------------|--------------------------|----|----|----------|

Sample Notes:

Summary for EMSL Kit 133231 **Average Radon Result: 1.7 pCi/L**

**EMSL Analytical, Inc.**

200 Route 130 North, Cinnaminson, NJ 08077
 Phone/Fax: (800) 220-3675 / (856) 786-0327
<http://www.EMSL.com> cinnaminsonradonlab@emsl.com

EMSL Order: 381509976
 CustomerID: LEID42
 CustomerPO:
 ProjectID:

Attn: **John Whelpley**
Leidos Engineering, LLC
11951 Freedom Dr.
Reston, VA 20190

Phone: (571) 268-0697
 Fax:
 Received: 12/15/15 12:34 PM
 Analysis Date: 12/17/2015
 Collected: 12/8/2015

Project: **Spring Brook High School / 201 Valley Brook Drive**

Test Site: **Spring Brook High School**
201 Valley Brook Drive
Silver Spring, MD 20904

Test Report: Radon in Air Test Results**Samples for EMSL Kit 133239**

| Liquid Scintillation ID | Location | Radon Activity pCi/L | Start | Stop | Temperature F | Humidity % | Sample Type |
|--------------------------|--|-------------------------|-------------------------|--------------------------|------------------|---------------|-------------|
| 225749 381509976-0074 | Classroom E110 NW Side Top Of Fridge 5' | 1.8 | 12/8/2015 6:42:00 PM | 12/11/2015 7:29:00 AM | 70 | 30 | Customer |

Sample Notes:

| | | | | | | | |
|--------------------------|--|-----|-------------------------|--------------------------|----|----|----------|
| 225888 381509976-0075 | Classroom E110 NW Side Top Of Fridge 5' | 1.9 | 12/8/2015 6:42:00 PM | 12/11/2015 7:29:00 AM | 70 | 30 | Customer |
|--------------------------|--|-----|-------------------------|--------------------------|----|----|----------|

Sample Notes:

Summary for EMSL Kit 133239 **Average Radon Result: 1.8 pCi/L**

Samples for EMSL Kit 133223

| Liquid Scintillation ID | Location | Radon Activity pCi/L | Start | Stop | Temperature F | Humidity % | Sample Type |
|--------------------------|----------------------------------|-------------------------|-------------------------|--------------------------|------------------|---------------|-------------|
| 225731 381509976-0076 | Office E114 NW. Side Shelf 6' | 2 | 12/8/2015 6:46:00 PM | 12/11/2015 7:26:00 AM | 70 | 40 | Customer |

Sample Notes:

| | | | | | | | |
|--------------------------|----------------------------------|-----|-------------------------|--------------------------|----|----|----------|
| 225543 381509976-0077 | Office E114 NW. Side Shelf 6' | 1.8 | 12/8/2015 6:46:00 PM | 12/11/2015 7:26:00 AM | 70 | 40 | Customer |
|--------------------------|----------------------------------|-----|-------------------------|--------------------------|----|----|----------|

Sample Notes:

Summary for EMSL Kit 133223 **Average Radon Result: 1.9 pCi/L**

Samples for EMSL Kit 133224

| Liquid Scintillation ID | Location | Radon Activity pCi/L | Start | Stop | Temperature F | Humidity % | Sample Type |
|--------------------------|---------------------------------------|-------------------------|-------------------------|--------------------------|------------------|---------------|-------------|
| 225714 381509976-0079 | Music Room D107 West Side Shelf 4' | 3.9 | 12/8/2015 6:58:00 PM | 12/11/2015 7:37:00 AM | 70 | 40 | Customer |

Sample Notes:

| | | | | | | | |
|--------------------------|---------------------------------------|-----|-------------------------|--------------------------|----|----|----------|
| 225738 381509976-0080 | Music Room D107 West Side Shelf 4' | 3.4 | 12/8/2015 6:58:00 PM | 12/11/2015 7:37:00 AM | 70 | 40 | Customer |
|--------------------------|---------------------------------------|-----|-------------------------|--------------------------|----|----|----------|

Sample Notes:

Summary for EMSL Kit 133224 **Average Radon Result: 3.7 pCi/L**

**EMSL Analytical, Inc.**

200 Route 130 North, Cinnaminson, NJ 08077
 Phone/Fax: (800) 220-3675 / (856) 786-0327
<http://www.EMSL.com> cinnaminsonradonlab@emsl.com

EMSL Order: 381509976
 CustomerID: LEID42
 CustomerPO:
 ProjectID:

Attn: **John Whelpley**
Leidos Engineering, LLC
11951 Freedom Dr.
Reston, VA 20190

Phone: (571) 268-0697
 Fax:
 Received: 12/15/15 12:34 PM
 Analysis Date: 12/17/2015
 Collected: 12/8/2015

Project: **Spring Brook High School / 201 Valley Brook Drive**

Test Site: **Spring Brook High School**
201 Valley Brook Drive
Silver Spring, MD 20904

Test Report: Radon in Air Test Results**Samples for EMSL Kit 133226**

| Liquid Scintillation ID | Location | Radon Activity pCi/L | Start | Stop | Temperature F | Humidity % | Sample Type |
|--------------------------|--|-------------------------|-------------------------|--------------------------|------------------|---------------|-------------|
| 225571 381509976-0081 | Music Rm D108 E. Side Teacher Desk 3' | 2.8 | 12/8/2015 7:02:00 PM | 12/11/2015 7:39:00 AM | 72 | 30 | Customer |

Sample Notes:

| | | | | | | | |
|--------------------------|--|-----|-------------------------|--------------------------|----|----|----------|
| 225772 381509976-0082 | Music Rm D108 E. Side Teacher Desk 3' | 3.2 | 12/8/2015 7:02:00 PM | 12/11/2015 7:39:00 AM | 72 | 30 | Customer |
|--------------------------|--|-----|-------------------------|--------------------------|----|----|----------|

Sample Notes:

Summary for EMSL Kit 133226 Average Radon Result: 3.0 pCi/L

Samples for EMSL Kit 133229

| Liquid Scintillation ID | Location | Radon Activity pCi/L | Start | Stop | Temperature F | Humidity % | Sample Type |
|--------------------------|---------------------------------------|-------------------------|-------------------------|--------------------------|------------------|---------------|-------------|
| 225910 381509976-0083 | Auditorium W. Side- Light Stand 5' | 3.6 | 12/8/2015 6:08:00 PM | 12/11/2015 6:19:00 AM | 70 | 60 | Customer |

Sample Notes:

| | | | | | | | |
|--------------------------|---------------------------------------|-----|-------------------------|--------------------------|----|----|----------|
| 225722 381509976-0084 | Auditorium W. Side- Light Stand 5' | 3.9 | 12/8/2015 6:08:00 PM | 12/11/2015 6:19:00 AM | 70 | 60 | Customer |
|--------------------------|---------------------------------------|-----|-------------------------|--------------------------|----|----|----------|

Sample Notes:

Summary for EMSL Kit 133229 Average Radon Result: 3.8 pCi/L

Samples for EMSL Kit 133233

| Liquid Scintillation ID | Location | Radon Activity pCi/L | Start | Stop | Temperature F | Humidity % | Sample Type |
|--------------------------|---------------------------------------|-------------------------|-------------------------|--------------------------|------------------|---------------|-------------|
| 225550 381509976-0085 | Auditorium S. Side- Light Stand 5' | 3 | 12/8/2015 7:10:00 PM | 12/11/2015 6:20:00 AM | 70 | 60 | Customer |

Sample Notes:

| | | | | | | | |
|--------------------------|---------------------------------------|-----|-------------------------|--------------------------|----|----|----------|
| 225580 381509976-0086 | Auditorium S. Side- Light Stand 5' | 3.3 | 12/8/2015 7:10:00 PM | 12/11/2015 6:20:00 AM | 70 | 60 | Customer |
|--------------------------|---------------------------------------|-----|-------------------------|--------------------------|----|----|----------|

Sample Notes:

Summary for EMSL Kit 133233 Average Radon Result: 3.2 pCi/L

**EMSL Analytical, Inc.**

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 Phone/Fax: (800) 220-3675 / (856) 786-0327
<http://www.EMSL.com> cinnaminsonradonlab@emsl.com

EMSL Order: 381509976
 CustomerID: LEID42
 CustomerPO:
 ProjectID:

Attn: **John Whelpley**
Leidos Engineering, LLC
11951 Freedom Dr.
Reston, VA 20190

Phone: (571) 268-0697
 Fax:
 Received: 12/15/15 12:34 PM
 Analysis Date: 12/17/2015
 Collected: 12/8/2015

Project: **Spring Brook High School / 201 Valley Brook Drive**

Test Site: **Spring Brook High School**
201 Valley Brook Drive
Silver Spring, MD 20904

Test Report: Radon in Air Test Results**Samples for EMSL Kit 133191**

| Liquid Scintillation ID | Location | Radon Activity pCi/L | Start | Stop | Temperature F | Humidity % | Sample Type |
|-------------------------|----------|-------------------------|------------|------------|------------------|---------------|-------------|
| 225707 | D | 3.8 | 12/8/2015 | 12/11/2015 | 70 | 60 | Customer |
| 381509976-0087 | | | 7:14:00 PM | 6:21:00 AM | | | |

Sample Notes:

| | | | | | | | |
|----------------|---|-----|------------|------------|----|----|----------|
| 225897 | D | 3.7 | 12/8/2015 | 12/11/2015 | 70 | 60 | Customer |
| 381509976-0088 | | | 7:14:00 PM | 6:21:00 AM | | | |

Sample Notes:

Summary for EMSL Kit 133191 **Average Radon Result: 3.8 pCi/L**

Samples for EMSL Kit 133197

| Liquid Scintillation ID | Location | Radon Activity pCi/L | Start | Stop | Temperature F | Humidity % | Sample Type |
|-------------------------|-----------------------------------|-------------------------|------------|------------|------------------|---------------|-------------|
| 225753 | M. Shop B107 W. Side- Shelf 6' | 2.8 | 12/8/2015 | 12/11/2015 | 74 | 30 | Customer |
| 381509976-0089 | | | 7:23:00 PM | 8:01:00 AM | | | |

Sample Notes:

| | | | | | | | |
|----------------|-----------------------------------|-----|------------|------------|----|----|----------|
| 225583 | M. Shop B107 W. Side- Shelf 6' | 2.7 | 12/8/2015 | 12/11/2015 | 74 | 30 | Customer |
| 381509976-0090 | | | 7:23:00 PM | 8:01:00 AM | | | |

Sample Notes:

Summary for EMSL Kit 133197 **Average Radon Result: 2.8 pCi/L**

Samples for EMSL Kit 133207

| Liquid Scintillation ID | Location | Radon Activity pCi/L | Start | Stop | Temperature F | Humidity % | Sample Type |
|-------------------------|--------------------------------|-------------------------|------------|------------|------------------|---------------|-------------|
| 225768 | Class B106 S. Side Shelf 6' | 2.7 | 12/8/2015 | 12/11/2015 | 72 | 30 | Customer |
| 381509976-0091 | | | 7:31:00 PM | 7:56:00 AM | | | |

Sample Notes:

| | | | | | | | |
|----------------|--------------------------------|-----|------------|------------|----|----|----------|
| 225553 | Class B106 S. Side Shelf 6' | 2.3 | 12/8/2015 | 12/11/2015 | 72 | 30 | Customer |
| 381509976-0092 | | | 7:31:00 PM | 7:56:00 AM | | | |

Sample Notes:

Summary for EMSL Kit 133207 **Average Radon Result: 2.5 pCi/L**

**EMSL Analytical, Inc.**

200 Route 130 North, Cinnaminson, NJ 08077
 Phone/Fax: (800) 220-3675 / (856) 786-0327
<http://www.EMSL.com> cinnaminsonradonlab@emsl.com

EMSL Order: 381509976
 CustomerID: LEID42
 CustomerPO:
 ProjectID:

Attn: **John Whelpley**
Leidos Engineering, LLC
11951 Freedom Dr.
Reston, VA 20190

Phone: (571) 268-0697
 Fax:
 Received: 12/15/15 12:34 PM
 Analysis Date: 12/17/2015
 Collected: 12/8/2015

Project: **Spring Brook High School / 201 Valley Brook Drive**

Test Site: **Spring Brook High School**
201 Valley Brook Drive
Silver Spring, MD 20904

Test Report: Radon in Air Test Results**Samples for EMSL Kit 133206**

| Liquid Scintillation ID | Location | Radon Activity pCi/L | Start | Stop | Temperature F | Humidity % | Sample Type |
|-------------------------|----------|-------------------------|------------|------------|------------------|---------------|-------------|
| 225802 | D | 3 | 12/8/2015 | 12/11/2015 | 72 | 30 | Customer |
| 381509976-0093 | | | 7:33:00 PM | 7:57:00 AM | | | |

Sample Notes:

| | | | | | | | |
|----------------|---|-----|------------|------------|----|----|----------|
| 225527 | D | 2.4 | 12/8/2015 | 12/11/2015 | 72 | 30 | Customer |
| 381509976-0094 | | | 7:33:00 PM | 7:57:00 AM | | | |

Sample Notes:

Summary for EMSL Kit 133206 **Average Radon Result: 2.7 pCi/L**

Samples for EMSL Kit 133198

| Liquid Scintillation ID | Location | Radon Activity pCi/L | Start | Stop | Temperature F | Humidity % | Sample Type |
|-------------------------|------------------------------------|-------------------------|------------|------------|------------------|---------------|-------------|
| 225587 | Classroom B103 E. Side Shelf 6' | 2.7 | 12/8/2015 | 12/11/2015 | 66 | 60 | Customer |
| 381509976-0095 | | | 7:46:00 PM | 6:34:00 AM | | | |

Sample Notes:

| | | | | | | | |
|----------------|------------------------------------|-----|------------|------------|----|----|----------|
| 225572 | Classroom B103 E. Side Shelf 6' | 2.5 | 12/8/2015 | 12/11/2015 | 66 | 60 | Customer |
| 381509976-0096 | | | 7:46:00 PM | 6:34:00 AM | | | |

Sample Notes:

Summary for EMSL Kit 133198 **Average Radon Result: 2.6 pCi/L**

Samples for EMSL Kit 133214

| Liquid Scintillation ID | Location | Radon Activity pCi/L | Start | Stop | Temperature F | Humidity % | Sample Type |
|-------------------------|----------|-------------------------|------------|------------|------------------|---------------|-------------|
| 225574 | B | 0.2 | 12/8/2015 | 12/11/2015 | 72 | 40 | Customer |
| 381509976-0097 | | | 7:48:00 PM | 6:35:00 AM | | | |

Sample Notes:

| | | | | | | | |
|----------------|---|-----|------------|------------|----|----|----------|
| 225743 | B | 0.1 | 12/8/2015 | 12/11/2015 | 72 | 40 | Customer |
| 381509976-0098 | | | 7:48:00 PM | 6:35:00 AM | | | |

Sample Notes:

Summary for EMSL Kit 133214 **Average Radon Result: 0.2 pCi/L**

**EMSL Analytical, Inc.**

200 Route 130 North, Cinnaminson, NJ 08077
 Phone/Fax: (800) 220-3675 / (856) 786-0327
<http://www.EMSL.com> cinnaminsonradonlab@emsl.com

EMSL Order: 381509976
 CustomerID: LEID42
 CustomerPO:
 ProjectID:

Attn: **John Whelpley**
Leidos Engineering, LLC
11951 Freedom Dr.
Reston, VA 20190

Phone: (571) 268-0697
 Fax:
 Received: 12/15/15 12:34 PM
 Analysis Date: 12/17/2015
 Collected: 12/8/2015

Project: **Spring Brook High School / 201 Valley Brook Drive**

Test Site: **Spring Brook High School**
201 Valley Brook Drive
Silver Spring, MD 20904

Test Report: Radon in Air Test Results**Samples for EMSL Kit 133196**

| Liquid Scintillation ID | Location | Radon Activity pCi/L | Start | Stop | Temperature F | Humidity % | Sample Type |
|--------------------------|-------------------------------------|-------------------------|-------------------------|--------------------------|------------------|---------------|-------------|
| 225545 381509976-0099 | Classroom B102 S. Side- Shelf 6' | 2.4 | 12/8/2015 7:51:00 PM | 12/11/2015 6:32:00 AM | 66 | 60 | Customer |

Sample Notes:

| | | | | | | | |
|--------------------------|-------------------------------------|-----|-------------------------|--------------------------|----|----|----------|
| 225597 381509976-0100 | Classroom B102 S. Side- Shelf 6' | 2.9 | 12/8/2015 7:51:00 PM | 12/11/2015 6:32:00 AM | 66 | 60 | Customer |
|--------------------------|-------------------------------------|-----|-------------------------|--------------------------|----|----|----------|

Sample Notes:

Summary for EMSL Kit 133196 **Average Radon Result: 2.7 pCi/L**

Samples for EMSL Kit 133205

| Liquid Scintillation ID | Location | Radon Activity pCi/L | Start | Stop | Temperature F | Humidity % | Sample Type |
|--------------------------|------------------------------------|-------------------------|-------------------------|--------------------------|------------------|---------------|-------------|
| 225788 381509976-0101 | Classroom B101 S. Side Shelf 6' | 1.9 | 12/8/2015 7:55:00 PM | 12/11/2015 6:30:00 AM | 66 | 30 | Customer |

Sample Notes:

| | | | | | | | |
|--------------------------|------------------------------------|-----|-------------------------|--------------------------|----|----|----------|
| 225524 381509976-0102 | Classroom B101 S. Side Shelf 6' | 1.6 | 12/8/2015 7:55:00 PM | 12/11/2015 6:30:00 AM | 66 | 30 | Customer |
|--------------------------|------------------------------------|-----|-------------------------|--------------------------|----|----|----------|

Sample Notes:

Summary for EMSL Kit 133205 **Average Radon Result: 1.8 pCi/L**

Samples for EMSL Kit 133213

| Liquid Scintillation ID | Location | Radon Activity pCi/L | Start | Stop | Temperature F | Humidity % | Sample Type |
|--------------------------|------------------------------------|-------------------------|-------------------------|--------------------------|------------------|---------------|-------------|
| 225715 381509976-0103 | Classroom B104 S. Side Shelf 6' | 4.6 | 12/8/2015 8:05:00 PM | 12/11/2015 7:44:00 AM | 70 | 30 | Customer |

Sample Notes:

| | | | | | | | |
|--------------------------|------------------------------------|-----|-------------------------|--------------------------|----|----|----------|
| 225791 381509976-0104 | Classroom B104 S. Side Shelf 6' | 4.3 | 12/8/2015 8:05:00 PM | 12/11/2015 7:44:00 AM | 70 | 30 | Customer |
|--------------------------|------------------------------------|-----|-------------------------|--------------------------|----|----|----------|

Sample Notes:

Summary for EMSL Kit 133213 **Average Radon Result: 4.4 pCi/L**

**EMSL Analytical, Inc.**

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 Phone/Fax: (800) 220-3675 / (856) 786-0327
<http://www.EMSL.com> cinnaminsonradonlab@emsl.com

EMSL Order: 381509976
 CustomerID: LEID42
 CustomerPO:
 ProjectID:

Attn: **John Whelpley**
Leidos Engineering, LLC
11951 Freedom Dr.
Reston, VA 20190

Phone: (571) 268-0697
 Fax:
 Received: 12/15/15 12:34 PM
 Analysis Date: 12/17/2015
 Collected: 12/8/2015

Project: **Spring Brook High School / 201 Valley Brook Drive**

Test Site: **Spring Brook High School**
201 Valley Brook Drive
Silver Spring, MD 20904

Test Report: Radon in Air Test Results**Samples for EMSL Kit 133204**

| Liquid Scintillation ID | Location | Radon Activity pCi/L | Start | Stop | Temperature F | Humidity % | Sample Type |
|--------------------------|---------------------------------|-------------------------|-------------------------|--------------------------|------------------|---------------|-------------|
| 225713 381509976-0105 | Office A101 W. Side Shelf 6' | 2 | 12/8/2015 8:09:00 PM | 12/11/2015 6:14:00 AM | 72 | 30 | Customer |

Sample Notes:

| | | | | | | | |
|--------------------------|---------------------------------|-----|-------------------------|--------------------------|----|----|----------|
| 225891 381509976-0106 | Office A101 W. Side Shelf 6' | 1.9 | 12/8/2015 8:09:00 PM | 12/11/2015 6:14:00 AM | 72 | 30 | Customer |
|--------------------------|---------------------------------|-----|-------------------------|--------------------------|----|----|----------|

Sample Notes:

Summary for EMSL Kit 133204 **Average Radon Result: 2.0 pCi/L**

Samples for EMSL Kit 133221

| Liquid Scintillation ID | Location | Radon Activity pCi/L | Start | Stop | Temperature F | Humidity % | Sample Type |
|--------------------------|----------|-------------------------|--------------------------|--------------------------|------------------|---------------|-------------|
| 225776 381509976-0107 | B | 0.1 | 12/8/2015 12:20:00 PM | 12/11/2015 6:15:00 AM | 72 | 40 | Customer |

Sample Notes:

| | | | | | | | |
|--------------------------|---|-----|--------------------------|--------------------------|----|----|----------|
| 225746 381509976-0108 | B | 0.4 | 12/8/2015 12:20:00 PM | 12/11/2015 6:15:00 AM | 72 | 40 | Customer |
|--------------------------|---|-----|--------------------------|--------------------------|----|----|----------|

Sample Notes:

Summary for EMSL Kit 133221 **Average Radon Result: 0.3 pCi/L**

Samples for EMSL Kit 133251

| Liquid Scintillation ID | Location | Radon Activity pCi/L | Start | Stop | Temperature F | Humidity % | Sample Type |
|--------------------------|------------------|-------------------------|-------------------------|--------------------------|------------------|---------------|-------------|
| 225497 381509976-0039 | Lab F108 NE Side | 2.2 | 12/8/2015 4:57:00 PM | 12/11/2015 7:02:00 AM | 74 | 60 | Customer |

Sample Notes:

| | | | | | | | |
|--------------------------|------------------|-----|-------------------------|--------------------------|----|----|----------|
| 225549 381509976-0109 | Lab F108 NE Side | 2.2 | 12/8/2015 4:57:00 PM | 12/11/2015 7:02:00 AM | 74 | 60 | Customer |
|--------------------------|------------------|-----|-------------------------|--------------------------|----|----|----------|

Sample Notes:

Summary for EMSL Kit 133251 **Average Radon Result: 2.2 pCi/L**

**EMSL Analytical, Inc.**

200 Route 130 North, Cinnaminson, NJ 08077
 Phone/Fax: (800) 220-3675 / (856) 786-0327
<http://www.EMSL.com> cinnaminsonradonlab@emsl.com

EMSL Order: 381509976
 CustomerID: LEID42
 CustomerPO:
 ProjectID:

Attn: **John Whelpley**
Leidos Engineering, LLC
11951 Freedom Dr.
Reston, VA 20190

Phone: (571) 268-0697
 Fax:
 Received: 12/15/15 12:34 PM
 Analysis Date: 12/17/2015
 Collected: 12/8/2015

Project: **Spring Brook High School / 201 Valley Brook Drive**

Test Site: **Spring Brook High School**
201 Valley Brook Drive
Silver Spring, MD 20904

Test Report: Radon in Air Test Results**Samples for EMSL Kit 133228**

| Liquid Scintillation ID | Location | Radon Activity pCi/L | Start | Stop | Temperature F | Humidity % | Sample Type |
|--------------------------|--|-------------------------|-------------------------|--------------------------|------------------|---------------|-------------|
| 225566 381509976-0078 | Classroom E113 NE Side- File Cabinet 5' | 1.7 | 12/8/2015 6:49:00 PM | 12/11/2015 7:29:00 AM | 70 | 30 | Customer |

Sample Notes:

| | | | | | | | |
|--------------------------|--|-----|-------------------------|--------------------------|----|----|----------|
| 225718 381509976-0110 | Class E113 NW Side, File Cabinet 5' | 1.9 | 12/8/2015 6:49:00 PM | 12/11/2015 7:27:00 AM | 70 | 30 | Customer |
|--------------------------|--|-----|-------------------------|--------------------------|----|----|----------|

Sample Notes:

Summary for EMSL Kit 133228 **Average Radon Result: 1.8 pCi/L**

The radon test was performed using a liquid scintillation radon detector/s and counted on a liquid scintillation counter using approved EPA testing protocols for Radon in Air testing. The EPA recommends fixing your home if the average of two short-term tests taken in the lowest lived-in level of the home show radon levels that are equal to or greater than 4.0pCi/L. The EPA recommends retesting your home every two years.

Please contact EMSL Analytical, Inc. or your State Health Department for further information. All procedures used for generating this report are in complete accordance with the current EPA protocols for the analysis of Radon in Air.

Report Note

Analyst(s)

Tiffanie Cosgrove (110)

Laura Freeman Subash Rashat

Laura Freeman, Interim Laboratory Manager &
 Subash Rashat, New Jersey Radiation Specialist NJ MES 10152
 or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ Accreditations: NRSB ARL6006, NJ DEP 03036, MEB 92525, PA 2573, IN 00455, IA L00032, RI RAS-024, ME 20200C, NE RMB-1083, NY ELAP 10872, NM 885-10L, FL RB2034, OH RL-39, NRPP #106178AL, KS-LB-0005. Subash Rashat certification #MES10152

Initial report from 12/18/2015 10:47:53

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