KCI TECHNOLOGIES

ENGINEERS • PLANNERS • SCIENTISTS • CONSTRUCTION MANAGERS

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

MCPS RADON TESTING – EXECUTIVE SUMMARY

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

Project Status

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

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May 12, 2022

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

Re: **Radon Testing Services**
KCI Job # 122108316

Location: Paint Branch High School
22500 Wims Rd.
Clarksburg, MD 20871

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 Paint Branch High School, 22500 Wims Rd. Clarksburg, MD 20871 (subject site).

Scope of Services:

KCI conducted radon testing at the subject site to evaluate indoor radon levels relative to the USEPA's recommended action level of 4.0 picocuries per Liter (pCi/L) - the level at which EPA recommends that schools take action to reduce the level. KCI conducted the radon testing in accordance with American Association of Radon Scientists and Technologists (AARST) *Protocol for Conducting Measurements of Radon and Radon Decay Products in Schools and Large Buildings*. A National Radon Proficiency Program (NRPP) Radon Measurement Specialist (certification #111004 RT) supervised the testing. Additional information on radon management and the health effects of radon exposure is available from https://www.montgomeryschoolsmd.org or www.epa.gov/radon.

KCI visited the site on March 22, 2022 and deployed three (3) activated charcoal (AC) radon test kits. KCI deployed radon test kits in all frequently-occupied ground contact rooms, and other areas, (if applicable) in accordance with AARST guidance.

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

1. Rooms with missing test kits from the Radon 2022 testing period (i.e. test kit was deployed but not recovered),
2. Rooms with invalidated test kits from the Radon 2022 testing period (e.g. an open window in the room or disturbed test kit),
3. Rooms which were locked/inaccessible during the Radon 2022 testing period,
4. Rooms with elevated radon results (i.e. ≥3.5 piC/L),
5. Rooms previously tested for radon but not tested in Radon 2022, and
6. Additional rooms that require testing (if applicable.)

A floor plan map of the building with the test locations is included as Attachment A of this report.

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

KCI returned to the site on March 25, 2022 to retrieve the radon sampling test kits. KCI shipped all radon tests via overnight delivery to Airchek, Inc. for analysis by gamma-ray spectroscopy. Airchek, Inc. is a NRSB certified analytical laboratory for radon analysis (certification # ARL1402) located at 1936 Butler Bridge Road, Mills River, North Carolina.

Evaluation of Testing Conditions:

These tests represent:

- Follow-up to initial testing.

These tests were conducted to:

- Evaluate radon concentrations at the facility.

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

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

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

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

Results:

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

The results of the radon test analysis indicated the following:

Radon Concentration	Room	Result
≥4.0 piC/L	None	N/A
<4.0 piC/L	See Attachment B	

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

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

Sincerely,

Tyler McCleaf

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

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

ATTACHMENT A

Floor Plan With Test Locations

ATTACHMENT B

Radon Test Summary Spreadsheet

Table Notes:

AC- Activated Charcoal
ACI- Air Check, Inc.
D- Duplicate
FB- Field Blank
KCI- KCI Technologies, Inc.
OB- Office Blank
PM- Project Manager
QC- Quality Control

Table 1- Radon Testing Results		
Paintbranch HS RT		
Test Period: 03/22/2022 - 03/25/2022		
Kit Number	Room / Area	Result
11139903	1017	< 0.3
11139910	1017	< 0.3
11139922	1017	< 0.3

Table 2- Radon Testing Results			
Paintbranch HS RT			
Test Period: 03/22/2022 - 03/25/2022			
Kit Number	QC Type	Room / Area	Result
11139910	D	1017	< 0.3
11139903	FB	1017	< 0.3
11139902	OB	OFFICE BLANK	< 0.3
11139928	TB	TRAVEL BLANK	< 0.3

Summary of Missed Locations		
Paintbranch HS RT		
Test Period: 03/22/22 - 03/25/22		
Kit Number	Room/Area	Result
	NA	

Summary of Missing, Compromised and >/= 4 piC/L Tests		
Paintbranch HS RT		
Test Period: 03/22/22 - 03/25/22		
Kit Number	Room/Area	Result
	NA	

Table Note:

* Missing or Compromised Sample

ATTACHMENT C

Laboratory Analytical Results

March 28, 2022

** LABORATORY ANALYSIS REPORT **

Radon test result report for:

Kit #	Room Id	Started	Ended	pCi/L	Analyzed
11139903	1017	2022-03-22 @ 4:00 pm	2022-03-25 @ 2:00 pm	< 0.3	2022-03-28
11139910	1017	2022-03-22 @ 4:00 pm	2022-03-25 @ 2:00 pm	< 0.3	2022-03-28
11139922	1017	2022-03-22 @ 4:00 pm	2022-03-25 @ 2:00 pm	< 0.3	2022-03-28

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

EXPOSURE IN BOWSER-MORNER RADON CHAMBER

CLIENT KCI Technologies, Inc. Job Number 204620

NOMINAL Conditions: Radon Conc 27.0 pCi/L Rel. Hum 50.1 % Temp. 70.0 F

Date Start: 3/18/22 Date Stop: 3/21/22	Date Start: _____ Date Stop: _____
Time Start: 0705 Time Stop: 0705	Time Start: _____ Time Stop: _____
Device No.'s: (5) Char Bags -	Device No.'s: _____
11139367, 11139368, 11139371,	_____
11139710, 11139717	_____
E3 Eight	_____
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

March 30, 2022

** LABORATORY ANALYSIS REPORT **

Radon test result report for:

MCPS - Spike Sample Lab Results. Measured values are satisfactory, i.e., within ± 25% of the chamber's reference value (25.7 pCi/L).

Kit #	Room Id	Started	Ended	pCi/L	Analyzed
11139367	SK1	2022-03-18 @ 7:00 am	2022-03-21 @ 7:00 am	25.9 ± 2.1	2022-03-30
11139368	SK2	2022-03-18 @ 7:00 am	2022-03-21 @ 7:00 am	23.9 ± 2.0	2022-03-30
11139371	SK3	2022-03-18 @ 7:00 am	2022-03-21 @ 7:00 am	25.7 ± 2.1	2022-03-30
11139710	SK4	2022-03-18 @ 7:00 am	2022-03-21 @ 7:00 am	26.4 ± 2.1	2022-03-30
11139717	SK5	2022-03-18 @ 7:00 am	2022-03-21 @ 7:00 am	24.6 ± 2.0	2022-03-30

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

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Corporate Office: 936 Ridgebrook road • Sparks , Maryland 21152 • 410-316-7800 • (Fax) 410-316-7935

Radon Test Kit Chain of Custody

Project Name: MCPS Radon – March 2022 Schools – Retesting

Name of Schools:

1. Herbert Hoover MS
2. Parkland MS
3. Redland MS
4. Rock Creek Valley ES
5. Tilden MS
6. Rockville HS
7. Wootton HS
8. Capt. James E. Daly ES
9. Clarksburg HS
10. Clearspring ES
11. Hallie Wells MS
12. Northwest HS
13. Paint Branch HS
14. Rocky Hills MS
15. Seneca Valley HS
16. Sherwood HS
17. Wilson Wims ES

	Date	Initials
Radon Test Kits Deployed	03/22/2022	BMM
Radon Test Kits Collected	03/25/2022	BMM
Radon Test Kits Shipped to Lab*	03/25/2022	BMM
Radon Test Kits Received by Lab*	03/28/2022	BMM

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

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MCPS RADON TESTING – EXECUTIVE SUMMARY

Site Name	Paint Branch High School
Date of Test Report	4/6/2022
Round of Testing	Initial Follow-up Post Remediation 2 Year Testing 5 Year Testing HVAC Upgrade Window Replacement New Addition New Facility
# Rooms Tested	123
# Rooms ≥ 4.0 pCi/L	0
Lowest Value	<0.3 pCi/L
Highest Value	0.9 pCi/L

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

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

April 6, 2022

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

Re: **Radon Testing Services**
KCI Job # 122108316

Location: Paint Branch HS
14121 Old Columbia Pike
Burtonsville, MD 20866

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 Paint Barnch HS, located at 14121 Old Columbia Pike Burtonsville, MD 20866 (subject site).

Scope of Services:

KCI conducted radon testing at the subject site to evaluate indoor radon levels relative to the USEPA's recommended action level of 4.0 picocuries per Liter (pCi/L) - the level at which EPA recommends that schools take action to reduce the level. KCI conducted the radon testing in accordance with American Association of Radon Scientists and Technologists (AARST) *Protocol for Conducting Measurements of Radon and Radon Decay Products in Schools and Large Buildings*. A National Radon Proficiency Program (NRPP) Radon Measurement Specialist (certification #111004 RT) supervised the testing. Additional information on radon management and the health effects of radon exposure is available from https://www.montgomeryschoolsmd.org or www.epa.gov/radon.

KCI visited the site on February 14, 2022 and deployed one hundred and forty one (141) activated charcoal (AC) radon test kits. KCI deployed radon test kits in all frequently-occupied ground contact rooms, and other areas, (if applicable) in accordance with AARST guidance.

A floor plan map of the building with the test locations is included as Attachment A of this report.

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

KCI returned to the site on February 17, 2022 to retrieve the radon sampling test kits. KCI shipped all radon tests via overnight delivery to Airchek, Inc. for analysis by gamma-ray spectroscopy. Airchek, Inc.

is a NRSB certified analytical laboratory for radon analysis (certification # ARL1402) located at 1936 Butler Bridge Road, Mills River, North Carolina.

Evaluation of Testing Conditions:

These tests represent:

- Follow-up to initial testing.
- Initial testing for an Addition.

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 low temperatures were in the 20s and high temperatures ranged from the high 30s to the high 40s Fahrenheit. Maximum sustained winds ranged from 5-18 miles per hour. Average humidity was around 15% with 1.5 inches of precipitation (rain) was recorded during testing period.

Results:

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

The results of the radon test analysis indicated the following:

Radon Concentration	Room	Result
≥4.0 piC/L	None	N/A
<4.0 piC/L	See Attachment B	

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

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

Sincerely,

Tyler McCleaf

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

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

ATTACHMENT A

Floor Plan With Test Locations

ATTACHMENT B

Radon Test Summary Spreadsheet

Table Notes:

AC- Activated Charcoal
ACI- Air Check, Inc.
D- Duplicate
FB- Field Blank
KCI- KCI Technologies, Inc.
OB- Office Blank
PM- Project Manager
QC- Quality Control

Table 1- Radon Testing Results		
Paint Branch HS		
Test Period: 02/14/2022 - 02/17/2022		
Kit Number	Room / Area	Result
11123792	1000	< 0.3
11123796	1000	< 0.3
11123797	1000	< 0.3
11123838	1001	< 0.3
11123817	1003	< 0.3
11123822	1003	< 0.3
11123844	1003	< 0.3
11123849	1003	0.6
11123730	1005	< 0.3
11123719	1010	< 0.3
11123775	1015	< 0.3
11123776	1015	< 0.3
11123781	1015	< 0.3
11123830	1015	< 0.3
11123851	1017	< 0.3
11123852	1017	< 0.3
11123858	1018	< 0.3
11123840	1020	0.6
11123756	1021	< 0.3
11123859	1021	0.6
11123749	1024	< 0.3
11123753	1026	< 0.3
11123748	1027	< 0.3
11123754	1030	< 0.3
11123784	1033	< 0.3
11123767	1038	< 0.3
11123813	1102	< 0.3
11123815	1103	< 0.3
11123816	1103	< 0.3
11123818	1105	< 0.3
11123819	1111	< 0.3
11123855	1113	< 0.3
11123827	1114	< 0.3
11123863	1115	< 0.3
11123829	1117	< 0.3
11123828	1119	< 0.3
11123831	1123	< 0.3
11123834	1124	< 0.3
11123824	1128	< 0.3
11123773	1129	< 0.3
11123812	1130	< 0.3
11123846	1133	< 0.3

Table 1- Radon Testing Results		
Paint Branch HS		
Test Period: 02/14/2022 - 02/17/2022		
Kit Number	Room / Area	Result
11123853	1134	0.5
11123786	1141	< 0.3
11123787	1142	< 0.3
11123789	1143	< 0.3
11123760	1200	< 0.3
11123763	1201	< 0.3
11123758	1204	< 0.3
11123759	1204	< 0.3
11123764	1205	< 0.3
11123769	1212	< 0.3
11123765	1216	< 0.3
11123761	1220	< 0.3
11123778	1222	< 0.3
11123779	1222	< 0.3
11123780	1222	< 0.3
11123770	1227	< 0.3
11123731	1302	0.6
11123750	1312	< 0.3
11123751	1312	< 0.3
11123752	1312	< 0.3
11123743	1316	0.6
11123744	1317	< 0.3
11123790	1318	< 0.3
11123746	1319	< 0.3
11123747	1322	< 0.3
11123740	1324	< 0.3
11123742	1326	0.5
11123865	1342	< 0.3
11123820	1400	< 0.3
11123847	1607	< 0.3
11123726	2011	< 0.3
11123739	2110	< 0.3
11123732	2126	< 0.3
11123728	2212	< 0.3
11123725	2228	< 0.3
11123727	2300	< 0.3
11123741	2300	< 0.3
11123734	2403	< 0.3
11123735	3003	< 0.3
11123736	3003	< 0.3
11123737	3003	< 0.3
11123799	1000B	< 0.3

Table 1- Radon Testing Results		
Paint Branch HS		
Test Period: 02/14/2022 - 02/17/2022		
Kit Number	Room / Area	Result
11123800	1000C	< 0.3
11123795	1000F	< 0.3
11123793	1000H	< 0.3
11123794	1000I	< 0.3
11123783	1000J	< 0.3
11123842	1000K	< 0.3
11123798	1000L	< 0.3
11123841	1000T	< 0.3
11123791	1015L	< 0.3
11123850	1017D	< 0.3
11123848	1018C	0.6
11123839	1020A	< 0.3
11123755	1030A	< 0.3
11123762	1038A	< 0.3
11123768	1038A	< 0.3
11123757	1038D	0.9
11123862	1115E	< 0.3
11123860	1117B	< 0.3
11123823	1123A	< 0.3
11123833	1123A	< 0.3
11123864	1123A	< 0.3
11123788	1142A	< 0.3
11123777	1143A	< 0.3
11123774	1143B	< 0.3
11123771	1216A	< 0.3
11123745	1319A	< 0.3
11123866	1344B	< 0.3
11123854	1344C	< 0.3
11123766	1344D	< 0.3
11123772	1344D	< 0.3
11123782	1344E	< 0.3
11123785	1344G	< 0.3
11123811	1400A	< 0.3
11123826	1400D	< 0.3
11123835	1400I	< 0.3
11123808	1400J	< 0.3
11123832	1400J	< 0.3
11123809	1400K	< 0.3
11123836	1400K	< 0.3
11123810	1400L	< 0.3
11123825	1400L	< 0.3
11123802	1400M	< 0.3

Table 1- Radon Testing Results		
Paint Branch HS		
Test Period: 02/14/2022 - 02/17/2022		
Kit Number	Room / Area	Result
11123856	1400M	< 0.3
11123867	1400M	< 0.3
11123801	1400N	< 0.3
11123807	1400N	< 0.3
11123814	1400N	< 0.3
11123803	1400P	< 0.3
11123804	1400Q	< 0.3
11123805	1400S	< 0.3
11123806	1400T	< 0.3
11123857	1601G	0.6
11123843	1605C	< 0.3
11123821	1609C	< 0.3
11123837	1613E	< 0.3
11123733	2001A	< 0.3
11123738	2319B	< 0.3

Table 2- Radon Testing Results			
Paint Branch HS			
Test Period: 02/14/2022 - 02/17/2022			
Kit Number	QC Type	Room / Area	Result
11123797	D	1000	< 0.3
11123792	FB	1000	< 0.3
11123822	D	1003	< 0.3
11123849	D	1003	< 0.3
11123816	D	1103	< 0.3
11123814	D	1400n	< 0.3
11123807	FB	1400n	< 0.3
11123867	D	1400m	< 0.3
11123864	D	1123a	< 0.3
11123833	FB	1123a	< 0.3
11123778	D	1222	< 0.3
11123779	FB	1222	< 0.3
11123759	D	1204	< 0.3
11123751	D	1312	< 0.3
11123752	FB	1312	< 0.3
11123727	D	2300	< 0.3
11123735	D	3003	< 0.3
11123736	FB	3003	< 0.3
11107385	OB	OFFICE BLANK	< 0.3
11123161	TB	TRAVEL BLANK	< 0.3

Summary of Missed Locations		
Paint Branch HS		
Test Period: 02/14/22 - 02/17/22		
Kit Number	Room/Area	Result
NA	1017 (ISI on floor plan)	NA

Summary of Missing, Compromised and >/= 4 piC/L Tests		
Paint Branch HS		
Test Period: 02/14/22 - 02/17/22		
Kit Number	Room/Area	Result
	NA	

Table Note:
* Missing or Compromised Sample

ATTACHMENT C

Laboratory Analytical Results

February 21, 2022

** LABORATORY ANALYSIS REPORT **

Radon test result report for:

Kit #	Room Id	Started	Ended	pCi/L	Analyzed
11123842	1000K	2022-02-14 @ 9:00 am	2022-02-17 @ 8:00 am	< 0.3	2022-02-21
11123841	1000T	2022-02-14 @ 9:00 am	2022-02-17 @ 8:00 am	< 0.3	2022-02-21
11123838	1001	2022-02-14 @ 9:00 am	2022-02-17 @ 9:00 am	< 0.3	2022-02-21
11123844	1003	2022-02-14 @ 9:00 am	2022-02-17 @ 9:00 am	< 0.3	2022-02-21
11123849	1003	2022-02-14 @ 9:00 am	2022-02-17 @ 9:00 am	0.6 ± 0.3	2022-02-21
11123822	1003	2022-02-14 @ 9:00 am	2022-02-17 @ 9:00 am	< 0.3	2022-02-21
11123776	1015	2022-02-14 @ 9:00 am	2022-02-17 @ 8:00 am	< 0.3	2022-02-21
11123775	1015	2022-02-14 @ 9:00 am	2022-02-17 @ 8:00 am	< 0.3	2022-02-21
11123781	1015	2022-02-14 @ 9:00 am	2022-02-17 @ 8:00 am	< 0.3	2022-02-21
11123791	1015L	2022-02-14 @ 9:00 am	2022-02-17 @ 8:00 am	< 0.3	2022-02-21
11123851	1017	2022-02-14 @ 9:00 am	2022-02-17 @ 8:00 am	< 0.3	2022-02-21
11123852	1017	2022-02-14 @ 9:00 am	2022-02-17 @ 8:00 am	< 0.3	2022-02-21
11123850	1017D	2022-02-14 @ 9:00 am	2022-02-17 @ 8:00 am	< 0.3	2022-02-21
11123858	1018	2022-02-14 @ 9:00 am	2022-02-17 @ 8:00 am	< 0.3	2022-02-21
11123848	1018C	2022-02-14 @ 9:00 am	2022-02-17 @ 8:00 am	0.6 ± 0.3	2022-02-21
11123840	1020	2022-02-14 @ 9:00 am	2022-02-17 @ 8:00 am	0.6 ± 0.3	2022-02-21
11123839	1020A	2022-02-14 @ 9:00 am	2022-02-17 @ 8:00 am	< 0.3	2022-02-21
11123859	1021	2022-02-14 @ 9:00 am	2022-02-17 @ 8:00 am	0.6 ± 0.3	2022-02-21
11123857	1601G	2022-02-14 @ 10:00 am	2022-02-17 @ 9:00 am	0.6 ± 0.3	2022-02-21

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

February 21, 2022 **** LABORATORY ANALYSIS REPORT ****

Radon test result report for:
PAINT BRANCH HS

Kit #	Room Id	Started	Ended	pCi/L	Analyzed
11123792	1000	2022-02-14 @ 9:00 am	2022-02-17 @ 8:00 am	< 0.3	2022-02-21
11123797	1000	2022-02-14 @ 9:00 am	2022-02-17 @ 8:00 am	< 0.3	2022-02-21
11123796	1000	2022-02-14 @ 9:00 am	2022-02-17 @ 8:00 am	< 0.3	2022-02-21
11123799	1000B	2022-02-14 @ 9:00 am	2022-02-17 @ 8:00 am	< 0.3	2022-02-21
11123800	1000C	2022-02-14 @ 9:00 am	2022-02-17 @ 8:00 am	< 0.3	2022-02-21
11123795	1000F	2022-02-14 @ 9:00 am	2022-02-17 @ 8:00 am	< 0.3	2022-02-21
11123793	1000H	2022-02-14 @ 9:00 am	2022-02-17 @ 8:00 am	< 0.3	2022-02-21
11123794	1000I	2022-02-14 @ 9:00 am	2022-02-17 @ 8:00 am	< 0.3	2022-02-21
11123783	1000J	2022-02-14 @ 1:00 pm	2022-02-17 @ 8:00 am	< 0.3	2022-02-21
11123798	1000L	2022-02-14 @ 9:00 am	2022-02-17 @ 8:00 am	< 0.3	2022-02-21
11123817	1003	2022-02-14 @ 10:00 am	2022-02-17 @ 9:00 am	< 0.3	2022-02-21
11123730	1005	2022-02-14 @ 2:00 pm	2022-02-17 @ 8:00 am	< 0.3	2022-02-21
11123719	1010	2022-02-14 @ 2:00 pm	2022-02-17 @ 8:00 am	< 0.3	2022-02-21
11123830	1015	2022-02-14 @ 11:00 am	2022-02-17 @ 9:00 am	< 0.3	2022-02-21
11123756	1021	2022-02-14 @ 1:00 pm	2022-02-17 @ 10:00 am	< 0.3	2022-02-21
11123749	1024	2022-02-14 @ 1:00 pm	2022-02-17 @ 10:00 am	< 0.3	2022-02-21
11123753	1026	2022-02-14 @ 12:00 pm	2022-02-17 @ 10:00 am	< 0.3	2022-02-21
11123748	1027	2022-02-14 @ 12:00 pm	2022-02-17 @ 10:00 am	< 0.3	2022-02-21
11123754	1030	2022-02-14 @ 12:00 pm	2022-02-17 @ 10:00 am	< 0.3	2022-02-21
11123755	1030A	2022-02-14 @ 12:00 pm	2022-02-17 @ 10:00 am	< 0.3	2022-02-21
11123784	1033	2022-02-14 @ 12:00 pm	2022-02-17 @ 10:00 am	< 0.3	2022-02-21
11123767	1038	2022-02-14 @ 12:00 pm	2022-02-17 @ 10:00 am	< 0.3	2022-02-21
11123762	1038A	2022-02-14 @ 12:00 pm	2022-02-17 @ 10:00 am	< 0.3	2022-02-21
11123768	1038A	2022-02-14 @ 12:00 pm	2022-02-17 @ 10:00 am	< 0.3	2022-02-21
11123757	1038D	2022-02-14 @ 12:00 pm	2022-02-17 @ 10:00 am	0.9 ± 0.3	2022-02-21
11123813	1102	2022-02-14 @ 10:00 am	2022-02-17 @ 9:00 am	< 0.3	2022-02-21
11123815	1103	2022-02-14 @ 10:00 am	2022-02-17 @ 9:00 am	< 0.3	2022-02-21
11123816	1103	2022-02-14 @ 10:00 am	2022-02-17 @ 9:00 am	< 0.3	2022-02-21
11123818	1105	2022-02-14 @ 10:00 am	2022-02-17 @ 9:00 am	< 0.3	2022-02-21
11123819	1111	2022-02-14 @ 10:00 am	2022-02-17 @ 9:00 am	< 0.3	2022-02-21
11123855	1113	2022-02-14 @ 11:00 am	2022-02-17 @ 9:00 am	< 0.3	2022-02-21
11123827	1114	2022-02-14 @ 11:00 am	2022-02-17 @ 9:00 am	< 0.3	2022-02-21
11123863	1115	2022-02-14 @ 11:00 am	2022-02-17 @ 9:00 am	< 0.3	2022-02-21
11123862	1115E	2022-02-14 @ 11:00 am	2022-02-17 @ 9:00 am	< 0.3	2022-02-21
11123829	1117	2022-02-14 @ 11:00 am	2022-02-17 @ 9:00 am	< 0.3	2022-02-21
11123860	1117B	2022-02-14 @ 11:00 am	2022-02-17 @ 9:00 am	< 0.3	2022-02-21
11123828	1119	2022-02-14 @ 11:00 am	2022-02-17 @ 9:00 am	< 0.3	2022-02-21

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

February 21, 2022 **** LABORATORY ANALYSIS REPORT ****

Radon test result report for:
PAINT BRANCH HS

Kit #	Room Id	Started	Ended	pCi/L	Analyzed
11123831	1123	2022-02-14 @ 11:00 am	2022-02-17 @ 9:00 am	< 0.3	2022-02-21
11123823	1123A	2022-02-14 @ 11:00 am	2022-02-17 @ 9:00 am	< 0.3	2022-02-21
11123864	1123A	2022-02-14 @ 11:00 am	2022-02-17 @ 9:00 am	< 0.3	2022-02-21
11123833	1123A	2022-02-14 @ 11:00 am	2022-02-17 @ 9:00 am	< 0.3	2022-02-21
11123834	1124	2022-02-14 @ 11:00 am	2022-02-17 @ 9:00 am	< 0.3	2022-02-21
11123824	1128	2022-02-14 @ 11:00 am	2022-02-17 @ 9:00 am	< 0.3	2022-02-21
11123773	1129	2022-02-14 @ 11:00 am	2022-02-17 @ 9:00 am	< 0.3	2022-02-21
11123812	1130	2022-02-14 @ 11:00 am	2022-02-17 @ 10:00 am	< 0.3	2022-02-21
11123846	1133	2022-02-14 @ 11:00 am	2022-02-17 @ 10:00 am	< 0.3	2022-02-21
11123853	1134	2022-02-14 @ 11:00 am	2022-02-17 @ 10:00 am	0.5 ± 0.3	2022-02-21
11123786	1141	2022-02-14 @ 11:00 am	2022-02-17 @ 10:00 am	< 0.3	2022-02-21
11123787	1142	2022-02-14 @ 12:00 pm	2022-02-17 @ 10:00 am	< 0.3	2022-02-21
11123788	1142A	2022-02-14 @ 12:00 pm	2022-02-17 @ 10:00 am	< 0.3	2022-02-21
11123789	1143	2022-02-14 @ 12:00 pm	2022-02-17 @ 10:00 am	< 0.3	2022-02-21
11123777	1143A	2022-02-14 @ 12:00 pm	2022-02-17 @ 10:00 am	< 0.3	2022-02-21
11123774	1143B	2022-02-14 @ 12:00 pm	2022-02-17 @ 10:00 am	< 0.3	2022-02-21
11123760	1200	2022-02-14 @ 12:00 pm	2022-02-17 @ 10:00 am	< 0.3	2022-02-21
11123763	1201	2022-02-14 @ 12:00 pm	2022-02-17 @ 10:00 am	< 0.3	2022-02-21
11123759	1204	2022-02-14 @ 12:00 pm	2022-02-17 @ 10:00 am	< 0.3	2022-02-21
11123758	1204	2022-02-14 @ 12:00 pm	2022-02-17 @ 10:00 am	< 0.3	2022-02-21
11123764	1205	2022-02-14 @ 12:00 pm	2022-02-17 @ 10:00 am	< 0.3	2022-02-21
11123769	1212	2022-02-14 @ 12:00 pm	2022-02-17 @ 10:00 am	< 0.3	2022-02-21
11123765	1216	2022-02-14 @ 12:00 pm	2022-02-17 @ 10:00 am	< 0.3	2022-02-21
11123771	1216A	2022-02-14 @ 12:00 pm	2022-02-17 @ 10:00 am	< 0.3	2022-02-21
11123761	1220	2022-02-14 @ 12:00 pm	2022-02-17 @ 10:00 am	< 0.3	2022-02-21
11123779	1222	2022-02-14 @ 12:00 pm	2022-02-17 @ 10:00 am	< 0.3	2022-02-21
11123780	1222	2022-02-14 @ 12:00 pm	2022-02-17 @ 10:00 am	< 0.3	2022-02-21
11123778	1222	2022-02-14 @ 12:00 pm	2022-02-17 @ 10:00 am	< 0.3	2022-02-21
11123770	1227	2022-02-14 @ 12:00 pm	2022-02-17 @ 10:00 am	< 0.3	2022-02-21
11123731	1302	2022-02-14 @ 1:00 pm	2022-02-17 @ 10:00 am	0.6 ± 0.3	2022-02-21
11123751	1312	2022-02-14 @ 1:00 pm	2022-02-17 @ 10:00 am	< 0.3	2022-02-21
11123750	1312	2022-02-14 @ 1:00 pm	2022-02-17 @ 10:00 am	< 0.3	2022-02-21
11123752	1312	2022-02-14 @ 1:00 pm	2022-02-17 @ 10:00 am	< 0.3	2022-02-21
11123743	1316	2022-02-14 @ 1:00 pm	2022-02-17 @ 10:00 am	0.6 ± 0.3	2022-02-21
11123744	1317	2022-02-14 @ 1:00 pm	2022-02-17 @ 10:00 am	< 0.3	2022-02-21
11123790	1318	2022-02-14 @ 1:00 pm	2022-02-17 @ 10:00 am	< 0.3	2022-02-21
11123746	1319	2022-02-14 @ 1:00 pm	2022-02-17 @ 10:00 am	< 0.3	2022-02-21

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

February 21, 2022 **** LABORATORY ANALYSIS REPORT ****

Radon test result report for:
PAINT BRANCH HS

Kit #	Room Id	Started	Ended	pCi/L	Analyzed
11123745	1319A	2022-02-14 @ 1:00 pm	2022-02-17 @ 10:00 am	< 0.3	2022-02-21
11123747	1322	2022-02-14 @ 1:00 pm	2022-02-17 @ 10:00 am	< 0.3	2022-02-21
11123740	1324	2022-02-14 @ 1:00 pm	2022-02-17 @ 10:00 am	< 0.3	2022-02-21
11123742	1326	2022-02-14 @ 1:00 pm	2022-02-17 @ 10:00 am	0.5 ± 0.3	2022-02-21
11123865	1342	2022-02-14 @ 11:00 am	2022-02-17 @ 10:00 am	< 0.3	2022-02-21
11123866	1344B	2022-02-14 @ 11:00 am	2022-02-17 @ 10:00 am	< 0.3	2022-02-21
11123854	1344C	2022-02-14 @ 11:00 am	2022-02-17 @ 10:00 am	< 0.3	2022-02-21
11123766	1344D	2022-02-14 @ 11:00 am	2022-02-17 @ 10:00 am	< 0.3	2022-02-21
11123772	1344D	2022-02-14 @ 11:00 am	2022-02-17 @ 10:00 am	< 0.3	2022-02-21
11123782	1344E	2022-02-14 @ 11:00 am	2022-02-17 @ 10:00 am	< 0.3	2022-02-21
11123785	1344G	2022-02-14 @ 11:00 am	2022-02-17 @ 10:00 am	< 0.3	2022-02-21
11123820	1400	2022-02-14 @ 10:00 am	2022-02-17 @ 9:00 am	< 0.3	2022-02-21
11123811	1400A	2022-02-14 @ 10:00 am	2022-02-17 @ 9:00 am	< 0.3	2022-02-21
11123826	1400D	2022-02-14 @ 10:00 am	2022-02-17 @ 9:00 am	< 0.3	2022-02-21
11123835	1400I	2022-02-14 @ 10:00 am	2022-02-17 @ 9:00 am	< 0.3	2022-02-21
11123832	1400J	2022-02-14 @ 10:00 am	2022-02-17 @ 9:00 am	< 0.3	2022-02-21
11123808	1400J	2022-02-14 @ 10:00 am	2022-02-17 @ 9:00 am	< 0.3	2022-02-21
11123809	1400K	2022-02-14 @ 10:00 am	2022-02-17 @ 9:00 am	< 0.3	2022-02-21
11123836	1400K	2022-02-14 @ 10:00 am	2022-02-17 @ 9:00 am	< 0.3	2022-02-21
11123825	1400L	2022-02-14 @ 11:00 am	2022-02-17 @ 9:00 am	< 0.3	2022-02-21
11123810	1400L	2022-02-14 @ 10:00 am	2022-02-17 @ 9:00 am	< 0.3	2022-02-21
11123867	1400M	2022-02-14 @ 11:00 am	2022-02-17 @ 9:00 am	< 0.3	2022-02-21
11123802	1400M	2022-02-14 @ 10:00 am	2022-02-17 @ 9:00 am	< 0.3	2022-02-21
11123856	1400M	2022-02-14 @ 11:00 am	2022-02-17 @ 9:00 am	< 0.3	2022-02-21
11123803	1400P	2022-02-14 @ 10:00 am	2022-02-17 @ 9:00 am	< 0.3	2022-02-21
11123804	1400Q	2022-02-14 @ 10:00 am	2022-02-17 @ 9:00 am	< 0.3	2022-02-21
11123805	1400S	2022-02-14 @ 10:00 am	2022-02-17 @ 9:00 am	< 0.3	2022-02-21
11123806	1400T	2022-02-14 @ 10:00 am	2022-02-17 @ 9:00 am	< 0.3	2022-02-21
11123843	1605C	2022-02-14 @ 10:00 am	2022-02-17 @ 9:00 am	< 0.3	2022-02-21
11123847	1607	2022-02-14 @ 10:00 am	2022-02-17 @ 9:00 am	< 0.3	2022-02-21
11123821	1609C	2022-02-14 @ 10:00 am	2022-02-17 @ 9:00 am	< 0.3	2022-02-21
11123837	1613E	2022-02-14 @ 10:00 am	2022-02-17 @ 9:00 am	< 0.3	2022-02-21
11123733	2001A	2022-02-14 @ 1:00 pm	2022-02-17 @ 11:00 am	< 0.3	2022-02-21
11123726	2011	2022-02-14 @ 1:00 pm	2022-02-17 @ 11:00 am	< 0.3	2022-02-21
11123739	2110	2022-02-14 @ 1:00 pm	2022-02-17 @ 11:00 am	< 0.3	2022-02-21
11123732	2126	2022-02-14 @ 1:00 pm	2022-02-17 @ 11:00 am	< 0.3	2022-02-21
11123728	2212	2022-02-14 @ 1:00 pm	2022-02-17 @ 11:00 am	< 0.3	2022-02-21

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February 21, 2022 **** LABORATORY ANALYSIS REPORT ****

Radon test result report for:
PAINT BRANCH HS

Kit #	Room Id	Started	Ended	pCi/L	Analyzed
11123725	2228	2022-02-14 @ 1:00 pm	2022-02-17 @ 11:00 am	< 0.3	2022-02-21
11123741	2300	2022-02-14 @ 1:00 pm	2022-02-17 @ 11:00 am	< 0.3	2022-02-21
11123727	2300	2022-02-14 @ 1:00 pm	2022-02-17 @ 11:00 am	< 0.3	2022-02-21
11123738	2319B	2022-02-14 @ 1:00 pm	2022-02-17 @ 11:00 am	< 0.3	2022-02-21
11123734	2403	2022-02-14 @ 1:00 pm	2022-02-17 @ 11:00 am	< 0.3	2022-02-21
11123735	3003	2022-02-14 @ 1:00 pm	2022-02-17 @ 11:00 am	< 0.3	2022-02-21
11123737	3003	2022-02-14 @ 1:00 pm	2022-02-17 @ 11:00 am	< 0.3	2022-02-21
11123736	3003	2022-02-14 @ 1:00 pm	2022-02-17 @ 11:00 am	< 0.3	2022-02-21

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February 21, 2022 **** LABORATORY ANALYSIS REPORT ****

Radon test result report for:
PAINT BRANCH HS
MAIN

Kit #	Room Id	Started	Ended	pCi/L	Analyzed
11123807	1400N	2022-02-14 @ 10:00 am	2022-02-17 @ 10:00 am	< 0.3	2022-02-21
11123801	1400N	2022-02-14 @ 10:00 am	2022-02-17 @ 10:00 am	< 0.3	2022-02-21
11123814	1400N	2022-02-14 @ 10:00 am	2022-02-17 @ 10:00 am	< 0.3	2022-02-21

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

EXPOSURE IN BOWSER-MORNER RADON CHAMBER

CLIENT KCI Technologies, Inc. Job Number 204186

NOMINAL Conditions: Radon Conc 25.8 pCi/L Rel. Hum 59.1 % Temp. 70.9 F

Date Start: 2/18/22 Date Stop: 2/21/22	Date Start: _____ Date Stop: _____
Time Start: 0911 Time Stop: 0911	Time Start: _____ Time Stop: _____
Device No.'s: (3) Char Bags - 11113484, 11192998, 20107126	Device No.'s: _____
23 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 µR/h Elevation = 820 ft

MCPS - Spike Sample Lab Results. Measured values are satisfactory, i.e., within ± 25% of the chamber's reference value (25.7 pCi/L).

Kit Number	Start Date	Start Time	End Date	End Time	Temp.	Facility	Building	Room	Project ID	Floor	Result
11113484	2022-02-18	9:00 am	2022-02-21	9:00 am	71	OFFICE	MAIN	SK1		1	27.9
11122998	2022-02-18	9:00 am	2022-02-21	9:00 am	71	OFFICE	MAIN	SK2		1	26.0
20107126	2022-02-18	9:00 am	2022-02-21	9:00 am	71	OFFICE	MAIN	SK3		1	27.6

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

KCI TECHNOLOGIES

ENGINEERS • PLANNERS • SCIENTISTS • CONSTRUCTION MANAGERS

Corporate Office: 936 Ridgebrook road • Sparks , Maryland 21152 • 410-316-7800 • (Fax) 410-316-7935

Radon Test Kit Chain of Custody

Project Name: MCPS Radon – February 2022 Schools

Name of Schools:

1. Sherwood HS
2. Paint Branch HS
3. Clarksburg HS
4. Hallie Wells MS
5. Rocky Hill MS
6. Wilson Wims ES
7. John T. Baker MS
8. Clearspring ES
9. Damascus ES

	Date	Initials
Radon Test Kits Deployed	02/14/2022	
Radon Test Kits Collected	02/17/2022	
Radon Test Kits Shipped to Lab*	02/17/2022	
Radon Test Kits Received by Lab*	02/19/2022	

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

RADON SCREENING SURVEY – FOLLOW-UP PAINT BRANCH HIGH SCHOOL

14121 Old Columbia Pike, Burtonsville ,Maryland 20866

EXECUTIVE SUMMARY

Date of Test Report:	3/22/16 Follow-Up
Round of Testing:	Initial Follow-up Post Remediation
# Rooms Tested	10
# Rooms ≥ 4.0 pCi/L:	0
Low Value:	<0.4
High Value:	0.7
Confirmed Rooms ≥ 4.0 pCi/L US EPA Action Level	0

Summary of Sampling Events ≥ 4.0 pCi/L

Room	Result (pCi/L) 2/1/16 Initial	Result (pCi/L) 3/22/16 Follow-Up	Average Result (pCi/L)
1003	--- Missing	0.4	0.4
1103	<0.3 Tampered	0.7	0.5
1111	--- Missing	<0.4	<0.4
1115G	<0.3 Tampered	<0.4	<0.4
1117F	<0.3 Tampered	<0.4	<0.4
1312	--- Missing	<0.4	<0.4
1324	0.8 Tampered	<0.4	0.6
1342	0.6 Tampered	<0.4	0.5
2221	--- Missing	<0.4	<0.4

KCI TECHNOLOGIES

ENGINEERS • PLANNERS • SCIENTISTS • CONSTRUCTION MANAGERS

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

MCPS RADON TESTING

Executive Summary: Paint Branch High School

Date of Test Report:	3/22/2016
Round of Testing:	Initial Follow-up Post Remediation
# Rooms Tested:	10
# Rooms ≥ 4.0 pCi/L:	0
Low Value:	< 0.4
High Value:	0.7

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

KCI TECHNOLOGIES

ENGINEERS • PLANNERS • SCIENTISTS • CONSTRUCTION MANAGERS

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

March 22, 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 # 12146341.30

Location: Paint Branch High School
14121 Old Columbia Pike
Burtonsville, MD 20866

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 Paint Branch High School, located at 14121 Old Columbia Pike in Burtonsville, Maryland 20866 (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 29, 2016 and deployed fourteen (14) 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 March 3, 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 ≤ 65° 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.

Results:

The results of the radon test analysis indicated the following:

Radon Concentration	Room	Result
≥4.0 piC/L	none	n/a
<4.0 piC/L	See Attachment B	

Notes:
D- Duplicate sample

The field blank, 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. Moulsdale
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 10 testing. Office blanks were not submitted under each school individually.

Radon Testing Results		
Paint Branch High School		
Test Period: 02/29/16-03/03/16		
Kit Number	**Room / Area**	**Result**
2038825	1003	0.4
2038831	1003	<0.4
3028840	1103	0.7
3028824	1111	<0.4
3028829	1142	<0.4
3028826	1312	<0.4
3028821	1324	<0.4
3028822	1342	<0.4
2038839	2221	<0.4
3028827	1115G	<0.4
3028881	1117F	<0.4

Table Note:
* Missing or Compromised Sample

Radon Testing Results		
Paint Branch High School		
Test Period: 02/29/16-03/03/16		
Kit Number	**QC Type**	**Result**
3028823	D (1111)	<0.4
3028835	D (1142)	<0.4
2038830	FB (2221)	<0.4

Table Note:
* Missing or Compromised Sample

ATTACHMENT C

Laboratory Analytical Results

AccuStar
Professional Radon Laboratory Services Since 1984

Radon in Air

NRPP 10511AL
NRSB ARL0007

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

Laboratory Report for:

KCI Technologies
936 Ridgebrook Rd
Sparks MD 21152

Property Tested: Project # 12146341

Paint Branch H. S.
14121 Old Columbia Pike
Burtonsville MD 20866

Log Number	Device Number	Test Exposure Duration:		Area Tested	Result (pCi/L)
3015361	3028826	02/29/2016 4:25 pm	03/03/2016 12:20 pm	Unit 1312 First Floor	<0.4
3015362	3028821	02/29/2016 4:27 pm	03/03/2016 12:28 pm	Unit 1324 First Floor	<0.4
3015363	3028822	02/29/2016 4:30 pm	03/03/2016 12:23 pm	Unit 1342 First Floor	<0.4
3015364	3028881	02/29/2016 4:36 pm	03/03/2016 12:27 pm	Unit 1117F First Floor	<0.4
3015365	3028827	02/29/2016 4:38 pm	03/03/2016 12:28 pm	Unit 1115G First Floor	<0.4
3015366	3028824	02/29/2016 4:47 pm	03/03/2016 12:30 pm	Unit 1111 First Floor	<0.4
3015367	3028823	02/29/2016 4:49 pm	03/03/2016 12:30 pm	Unit 1111 First Floor	<0.4
3015368	3028840	02/29/2016 5:01 pm	03/03/2016 12:32 pm	Unit 1103 First Floor	0.7
3015369	3028829	02/29/2016 5:15 pm	03/03/2016 12:33 pm	Unit 1142 First Floor	<0.4
3015370	3028835	02/29/2016 5:15 pm	03/03/2016 12:33 pm	Unit 1142 First Floor	<0.4

Comment: A copy of this report was emailed to tehsin@kci.com.

Distributed by: KCI Technologies, Inc.

Date Received: 03/07/2016 Date Logged: 03/07/2016 Date Analyzed: 03/08/2016 Date Reported: 03/08/2016

Report Reviewed By: Jeffrey Karten Report Approved By: Carolyn D. Koke

Carolyn D. Koke, President, 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.

AccuStar
Professional Radon Laboratory Services Since 1984

Radon in Air

NRPP 10511AL
NRSB ARL0007

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

Laboratory Report for:

KCI Technologies
936 Ridgebrook Rd
Sparks MD 21152

Property Tested: Project # 12146341

Paint Branch HS
14121 Old Columbia Pike
Burtonsville MD 20866

Log Number	Device Number	Test Exposure Duration:		Area Tested	Result (pCi/L)
3015310	3028839	02/29/2016 5:20 pm	03/03/2016 12:40 pm	Unit 2221 Second Floor	<0.4
3015311	3028830	02/29/2016 5:20 pm	03/03/2016 12:40 pm	Unit 2221 Second Floor	<0.4
3015312	3028831	02/29/2016 4:52 pm	03/03/2016 12:44 pm	Unit 1003 Second Floor	<0.4
3015313	3028825	02/29/2016 4:52 pm	03/03/2016 12:44 pm	Unit 1003 Second Floor	0.4

Comment: A copy of this report was emailed to tehsin@kci.com.

Distributed by: KCI Technologies, Inc.

Date Received: 03/07/2016 Date Logged: 03/07/2016 Date Analyzed: 03/08/2016 Date Reported: 03/08/2016

Report Reviewed By: Jeffrey Karten Report Approved By: Carolyn D. Koke

Carolyn D. Koke, President, AccuStar Labs

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AccuStar
Professional Radon Laboratory Services Since 1984

AccuStar Labs
11 Awl Street
Medway MA 02053
888-480-8812
www.accustarlabs.com

Radon Device Type Open Face Canister

Send Written Report To:

Name: KCI Technologies, Inc
Address: 936 Ridgebrook Road
Address:
City / Town: Sparks
State/Province Postal Code: MD 21152
Report Country: Baltimore County
Email Address: tehsin@kci.com

Site Tested:

Site Name: Paint Branch H S.
Address: 14121 Old Columbia Pike
Address:
City / Town: Burtonsville
State/Province Postal Code: MD 20866
Test Country: Montgomery County
Project Number: 12146341

Contact Information:

Contact: Tehsin Aurangabadwala
Telephone: 410-891-1726
Technician:
Cert. Number:
Signature:

Lab Use Only	Device Number	Building Number	Unit Number	Floor	Name of Room	Start Date mm/dd/yyyy	Start Time hh:mm am / pm	Stop Date mm/dd/yyyy	Stop Time hh:mm am / pm	Lab Use Only
	3028826		1312	1	73°	02/29/2016	16:25 pm	03/03/2016	12:20 pm	
	3028821		1324	1	73	02/29/2016	16:27 pm	03/03/2016	12:28 pm	
	3028822		1342	1	73°	02/29/2016	16:30 pm	03/03/2016	12:29 pm	
	3028881		1117F	1	73°	02/29/2016	16:36 pm	03/03/2016	12:27 pm	
	3028827		1115G	1	73°	02/29/2016	16:38 pm	03/03/2016	12:28 pm	
	3028828		1111	1	73°	02/29/2016	16:47 pm	03/03/2016	12:30 pm	
	3028823		1111	1	73°	02/29/2016	16:49 pm	03/03/2016	12:30 pm	
	3028840		1103	1	73°	02/29/2016	17:01 pm	03/03/2016	12:32 pm	
	3028829		1142	1	73°	02/29/2016	17:15 pm	03/03/2016	12:33 pm	
	3028835		1142	1	73°	02/29/2016	17:15 pm	03/03/2016	12:33 pm	

Test must start before the expiration date shown on your device or test results will be invalid

AccuStar
Professional Radon Laboratory Services Since 1984

AccuStar Labs
11 Awl Street
Medway MA 02053
888-480-8812
www.accustarlabs.com

Radon Device Type Open Face Canister

Send Written Report To:

Name: KCI Technologies, Inc
Address: 936 Ridgebrook Road
Address:
City / Town: Sparks
State/Province Postal Code: MD 21152
Report Country: Baltimore County
Email Address: tehsin@kci.com

Site Tested:

Site Name: Paint Branch H.S.
Address: 14121 old Columbia Pike
Address:
City / Town: Burtonsville
State/Province Postal Code: MD 20866
Test Country: Montgomery County
Project Number: 12146341

Contact Information:

Contact: Tehsin Aurangabadwala
Telephone: 410-891-1726
Technician:
Cert. Number:
Signature:

Lab Use Only	Device Number	Building Number	Unit Number	Floor	Name of Room	Start Date mm/dd/yyyy	Start Time hh:mm am / pm	Stop Date mm/dd/yyyy	Stop Time hh:mm am / pm	Lab Use Only
	2038839		2221	2	730	02/29/2016	17:20 pm	03/03/2016	12:40 pm	
	2038830		2221	2	730	02/29/2016	17:20pm	03/03/2016	12:40 pm	
	2038831		1003	1	73'	02/29/2016	16:52pm	03/03/2016	12:44 pm	
	2038825		1003	1	73°	02/29/2016	16:52pm	03/03/2016	12:44 pm	
						02/29/2016		03/03/2016		
						02/29/2016		03/03/2016		
						02/29/2016		03/03/2016		
						02/29/2016		03/03/2016		
						02/29/2016		03/03/2016		
						02/29/2016		03/03/2016		

Test must start before the expiration date shown on your device or test results will be invalid

AccuStar
Professional Radon Laboratory Services Since 1984

Radon in Air

NRPP 10511AL
NRSB ARL0007

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

Laboratory Report for:

KCI Technologies
936 Ridgebrook Rd
Sparks MD 21152

Property Tested: Project # 12146341

MCPS Radon Phase 10 Office Blank

Log Number	Device Number	Test Exposure Duration:		Area Tested	Result (pCi/L)
3015360	3028828	02/29/2016 9:30 am	03/03/2016 9:30 am	Office Blank	<0.4

Comment: A copy of this report was emailed to tehsin@kci.com.

Distributed by: KCI Technologies, Inc.

Date Received: 03/07/2016 Date Logged: 03/07/2016 Date Analyzed: 03/08/2016 Date Reported: 03/08/2016

Report Reviewed By: Jeffrey Karten Report Approved By: Carolyn D. Koke

Carolyn D. Koke, President, AccuStar Labs

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Professional Radon Laboratory Services Since 1984

AccuStar Labs
11 Awl Street
Medway MA 02053
888-480-8812
www.accustarlabs.com

Radon Device Type Open Face Canister

Send Written Report To:

Name	KCI Technologies, Inc
Address	936 Ridgebrook Road
Address	
City / Town	Sparks
State/Province Postal Code	MD 21152
Report Country	Baltimore County
Email Address	tehsin@kci.com

Site Tested:

Site Name	KCI OFFICE
Address	936 Ridgebrook Road
Address	
City / Town	Sparks
State/Province Postal Code	MD 21152
Test Country	Montgomery County
Project Number	12146341

Contact Information:

Contact	Tehsin Aurangabadwala
Telephone	410-891-1726
Technician	
Cert. Number	
Signature	

Lab Use Only	Device Number	Building Number	Unit Number	Floor	Name of Room	Start Date mm/dd/yyyy	Start Time hh:mm am / pm	Stop Date mm/dd/yyyy	Stop Time hh:mm am / pm	Lab Use Only
	3028828		0	1	OFFICE (TEMP - 70F)	02/29/2016	9:30 am	03/03/2016	9:30 am	

Rev E1512

Test must start before the expiration date shown on your device or test results will be invalid

AccuStar
Professional Radon Laboratory Services Since 1984

Radon in Air

NRPP 10511AL
NRSB ARL0007

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

Laboratory Report for:

KCI Technologies
936 Ridgebrook Rd
Sparks MD 21152

Property Tested:

MCPS
Transit Blanks

Log Number	Device Number	Test Exposure Duration:		Area Tested	Result (pCi/L)
3010588	3028953	01/19/2016 1:00 pm	01/22/2016 9:30 am	1	< 0.4
3010589	3028955	01/19/2016 1:00 pm	01/22/2016 9:30 am	2	< 0.4
3010590	3028954	01/19/2016 1:00 pm	01/22/2016 9:30 am	3	< 0.4
3010591	3028997	01/19/2016 1:00 pm	01/22/2016 9:30 am	4	< 0.4

Comment: AMENDED REPORT for 3028953-8955, 3028997 on 2/22/16 to add all missing information from the blank datasheet. A copy of this report was emailed to james.moulsdale@kci.com.

Distributed by: KCI Technologies, Inc.

Date Received: 01/27/2016 Date Logged: 01/27/2016 Date Analyzed: 01/28/2016 Date Reported: 01/28/2016

Report Reviewed By: Crystal Bates Report Approved By: Carolyn D. Koke

Carolyn D. Koke, President, AccuStar Labs

Disclaimer:

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Return canisters for analysis to:
AccuStar Labs
929 Mt. Zion Rd., Lebanon, PA 17046
800-523-4964

RECEIVED JAN 27 2016

AccuStar Labs – Lebanon, PA
INFORMATION FORM - Large Buildings - Projects - Apartments

Instructions on back of form
Read instructions carefully
Discrepancies will invalidate tests

Do not use this form in New Jersey or Florida Call for correct forms.

Test Site Info

Name of Building/Project or Owner Transit

Site Address: Transit

City: _____ State _____ Zip _____ County _____

Projects Contact Name: Jon Coale Phone: _____ Email: _____

Multi-Page Report Y-N

Detector Serial#	ROOM NAME & NUMBER - LOCATION OF DETECTOR IN ROOM (indicate duplicates and blanks)		Floor	Start Date	Start Time Include AM/PM	Stop Date	Stop Time Include AM/PM	LAB USE ONLY Wgt. Gain	LAB USE ONLY pCi/L
12 3028953	Transit	3010588	1	1/19/16	1:00pm	1/22/16	9:30am		<0.4
1 8955	Transit	3010589	1	1/19/16	↓	↓	↓		<0.4
2 8954	Transit	3010590	1	1/19/16					<0.4
3 8997	Transit	3010591	1	1/19/16					<0.4

KCI Technologies, Inc. 1/27/2016
3010588 **3028953** ACPC275B EXP12/31/2018

Structure Type: (circle one or more) Basement - Crawlspace - Slab on Grade - Other

Test Purpose: (Circle all that apply) Initial Screening - Follow Up Test - Post Mitigation - Real Estate - Other

Building Type: (Circle One) Residential - Non Residential; Private Day Care - Private School; Day Care in Public School - Public School

Both Placed by and Retrieved by signatures are required Certified Tester's Name #

Canisters placed by _____ #_____

Canisters retrieved by _____ #_____

Owner waives confidentiality by signing here _____ Date 1/22/16

Were general operating conditions maintained? Yes - No explain if NO

Were closed building conditions maintained? Yes - No explain if NO

Normal Temp. Yes - No
Normal Humidity Yes - No
Windy Y-N Rainy Y-N

Send Results To:

Company Name: KCI Tech Attention: James Moulsdale

Address: 936 Ridgebrook

City: Sparks State: MD Zip 21152

Phone: 410-584-3826 Fax:

EMAIL Results to: James.Moulsdale@kci.com

Make sure information is complete and correct.

If a recalculation is requested there is a $10.00 recalc fee PER Canister.

Mailing: PO Box 990 Jonestown, PA 17038
Shipping: 929 Mt Zion Road, Lebanon, PA 17046
800-523-4964 fax 717-274-5662
NEHA 10511AL NRSB ARL 0007

EXPOSURE IN BOWSER-MORNER RADON CHAMBER

CLIENT KCI Technologies Inc. Job Number 173618

NOMINAL Conditions: Radon Conc 25.2 pCi/L Rel. Hum 49.1 % Temp. 70.0 F

Date Start: 1/23/16 Date Stop: 1/25/16	Date Start: _____ Date Stop: _____
Time Start: 0821 Time Stop: 0821	Time Start: _____ Time Stop: _____
Device No.'s: (6) Char. Cans -	Device No.'s: _____
3028985 thru 3028990	_____
_____	_____
E2 LOT	_____
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

AccuStar
Professional Radon Laboratory Services Since 1984

Radon in Air

NRPP 10511AL
NRSB ARL0007

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

Laboratory Report for:

KCI Technologies
936 Ridgebrook Rd
Sparks MD 21152

Property Tested:

MCPS
Radon Spike Sample Laboratory Results

Log Number	Device Number	Test Exposure Duration:		Area Tested	Result (pCi/L)
3010551	3028985	01/23/2016 8:20 am	01/25/2016 8:20 am	1 First Floor	24.2
3010552	3028986	01/23/2016 8:20 am	01/25/2016 8:20 am	2 First Floor	25.7
3010553	3028987	01/23/2016 8:20 am	01/25/2016 8:20 am	3 First Floor	23.8
3010554	3028988	01/23/2016 8:20 am	01/25/2016 8:20 am	4 First Floor	23.3
3010555	3028989	01/23/2016 8:20 am	01/25/2016 8:20 am	5 First Floor	24.0
3010556	3028990	01/23/2016 8:20 am	01/25/2016 8:20 am	6 First Floor	24.4

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.

Comment: A copy of this report was emailed to james.moulsdale@kci.com.

Distributed by: KCI Technologies, Inc.

Date Received: 01/27/2016 Date Logged: 01/27/2016 Date Analyzed: 01/28/2016 Date Reported: 01/28/2016

Report Reviewed By: _____ Report Approved By: _____

Carolyn D. Koke, President, AccuStar Labs

Disclaimer:

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Return canisters for analysis to:
AccuStar Labs
929 Mt. Zion Rd., Lebanon, PA 17046
800-523-4964

RECEIVED JAN 27 2016

AccuStar Labs – Lebanon, PA
INFORMATION FORM - Large Buildings - Projects - Apartments

Instructions on back of form
Read instructions carefully
Discrepancies will invalidate tests

Do not use this form in New Jersey or Florida Call for correct forms.

Test Site Info

Name of Building/Project or Owner: MCPS
Site Address: 850 Hungerford dr
City: Rockville MD State: MD Zip: 20850 County: Montgomery
Projects Contact Name: James Moulsdale Phone: 410-891-1842 Email: James.moulsdale@kci.com

Multi-Page Report Y-N

	Detector Serial#	ROOM NAME & NUMBER - LOCATION OF DETECTOR IN ROOM (indicate duplicates and blanks)		Floor	Start Date	Start Time Include AM/PM	Stop Date	Stop Time Include AM/PM	LAB USE ONLY Wgt. Gain	LAB USE ONLY pCi/L
2	3028985	1	3010551	1	1/23/16	08:20	1/25/16	08:20		N/A
3	3028986	2	3010552	1	↓	↓	↓	↓		↓
1	3028987	3	3010553	1						
3	3028988	4	3010554	1						
1	3028989	5	3010555	1						
2	3028990	6	3010556	1						

Structure Type: (circle one or more) Basement - Crawlspace - Slab on Grade - Other

Test Purpose: (Circle all that apply) (Initial Screening) - Follow Up Test - Post Mitigation - Real Estate - Other

Building Type: (Circle One) Residential - Non Residential - Private Day Care - Private School - Day Care in Public School - (Public School)

Both Placed by and Retrieved by signatures are required

Certified Testers Provide #

Canisters placed by James Moulsdale #

Canisters retrieved by James Moulsdale #

Owner waives confidentiality by signing here _____ Date _____

Were general operating conditions maintained? (Yes) - No explain if NO

Were closed building conditions maintained? (Yes) - No explain if NO

Normal Temp. (Yes) - No

Normal Humidity (Yes) - No

Windy Y-(N) Rainy Y-(N)

Send Results To:

Company Name: KCI Technologies Inc
Attention: James Moulsdale
Address: 936 Ridgebrook Rd
City: Sparks State: MD Zip: 21152
Phone: 410-891-1842 Fax:
EMAIL Results to: James.moulsdale@kci.com

1/27/2016

KCI Technologies, Inc.

3010551 **3028985** ACPC275B EXP12/31/2018

Make sure information is complete and correct.
If a recalculation is requested there is a $10.00 recalc fee PER Canister.

Mailing: PO Box 990 Jonest
Shipping: 929 Mt Zion Road, Le
800-523-4964 fax 717-2

NEHA 10511AL NRSB ARL 0007

Revision 5
4/2015

KCI TECHNOLOGIES

ENGINEERS • PLANNERS • SCIENTISTS • CONSTRUCTION MANAGERS

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

MCPS RADON TESTING

Executive Summary: Paint Branch High School

Date of Test Report:	2/1/2016
Round of Testing:	Initial Follow-up Post Remediation
# Rooms Tested:	112
# Rooms ≥ 4.0 pCi/L:	0
Low Value:	< 0.3
High Value:	2.5

Project Status:
Initial testing completed; missing or compromised samples need re-test.

KCI TECHNOLOGIES

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February 1, 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 # 12146341.22

Location: Paint Branch High School
14121 Old Columbia Pike
Burtonsville, MD 20866

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 Paint Branch High School, located at 14121 Old Columbia Pike in Burtonsville, Maryland 20866 (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 January 4, 2016 and deployed one hundred thirty-one (131) 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 January 7, 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 ≤ 65° 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.

Results:

The results of the radon test analysis indicated the following:

Radon Concentration	Room	Result
≥4.0 piC/L	none	n/a
<4.0 piC/L	See Attachment B	

Notes:
D- Duplicate sample

All field blanks, office blank, 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. Moulsdale
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

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		
Paint Branch HS		
Test Period: 01/04/16-01/07/16		
Kit Number	**Room / Area**	**Result**
7711259	1001	0.6
7711239	1003	< 0.3
7711262	1003	< 0.3
7711245	1015	1.1
7711266	1015	0.8
7711248	1015	1.2
7711273	1017	2.5
7708345	1018	< 0.3
7711207	1020	0.7
7711264	1023	< 0.3
7711254	1024	< 0.3
7706731	1026	< 0.3
7706517	1030	< 0.3
7711226	1033	< 0.3
7711228	1038	< 0.3
7704644	1038	< 0.3
7706515	1038	< 0.3
7704631	1038	< 0.3
7711238	1102	< 0.3
7711253	1105	0.7
7711267	1113	< 0.3
7711249	1115	< 0.3
7711297	1117	< 0.3
7711276	1119	< 0.3
7708328	1123	< 0.3
7706525	1124	< 0.3
7711213	1128	< 0.3
7708346	1129	< 0.3
7708616	1130	< 0.3
7706513	1133	0.6
7706538	1134	< 0.3
7711215	1142	< 0.3
7711220	1143	< 0.3
7708615	1200	< 0.3
7711216	1201	< 0.3
7706521	1204	0.6
7704632	1205	< 0.3
7711218	1212	0.8
7711219	1216	< 0.3
7711221	1220	< 0.3
7708341	1222	< 0.3
7711229	1227	< 0.3
7706723	1302	< 0.3
7711282	1316	< 0.3
7711265	1317	< 0.3
7711278	1318	< 0.3

Table Note:
* Missing or Compromised Sample

Radon Testing Results		
Paint Branch HS		
Test Period: 01/04/16-01/07/16		
Kit Number	**Room / Area**	**Result**
7711286	1319	< 0.3
7711298	1322	< 0.3
7711277	1326	0.6
7714916	1400	0.7
7711244	2010	< 0.3
7711258	2010	< 0.3
7711291	2012	< 0.3
7711290	2018	< 0.3
7711299	2315	< 0.3
7711296	2328	< 0.3
7708340	2409	0.6
7711285	2411	0.9
7711280	3214	0.5
7711210	1000B	0.5
7711214	1000C	0.8
7711217	1000F	< 0.3
7711209	1000H	< 0.3
7711223	1000I	1
7704607	1000J	< 0.3
7711205	1000K	< 0.3
7706532	1000L	< 0.3
7711295	1000T	< 0.3
7711271	* 1003 (Missing)	0
7711300	1015G	< 0.3
7711212	1017C	< 0.3
7711293	1017D	0.7
7706534	1018C	< 0.3
7706542	1020A	< 0.3
7711275	1021/1025	< 0.3
7711261	* 1103 (Tampered)	< 0.3
7711250	* 1111 (Missing)	0
7711241	1115E	< 0.3
7711289	* 1115G (Tampered)	< 0.3
7711268	1117B	< 0.3
7711240	* 1117F (Tampered)	< 0.3
7704601	1142 OFFICE	< 0.3
7711222	1216A	< 0.3
7711232	* 1312 (Missing)	0
7711272	1319A	0.6
7711270	* 1324 (Tampered)	0.8
7711230	* 1342 (Tampered)	0.6
7711225	1344B	< 0.3
7711206	1344C	< 0.3
7711227	1344D	< 0.3
7708386	1344E	< 0.3
7711231	1344G	< 0.3
7710682	1400A	< 0.3
7710667	1400D	< 0.3
7714922	1400I	0.6
7714924	1400J	< 0.3

Table Note:
* Missing or Compromised Sample

Radon Testing Results		
Paint Branch HS		
Test Period: 01/04/16-01/07/16		
Kit Number	**Room / Area**	**Result**
7714921	1400J2	0.8
7714926	1400K	1
7714919	1400K2	0.9
7714918	1400L2	< 0.3
7710680	1400M	0.8
7714920	1400M2	< 0.3
7711204	1400P	< 0.3
7714917	1400Q	< 0.3
7710679	1400S	< 0.3
7710674	1400T	0.7
7714923	1440L	1.2
7711234	1609C	< 0.3
7711243	1609C	< 0.3
7711247	1613E	< 0.3
7711284	* 2221 (Missing)	0
7706509	MAIN OFFICE	< 0.3

Table Note:
* Missing or Compromised Sample

Radon Testing Results		
Paint Branch HS		
Test Period: 01/04/16-01/07/16		
Kit Number	**QC Type**	**Result**
7711242	D (1003)	< 0.3
7711233	D (1015)	1.3
7704690	D (1030)	< 0.3
7706523	D (1038)	< 0.3
7711224	D (1038)	< 0.3
7711263	D (1103)	0.7
7711237	D (1105)	< 0.3
7711246	* D (1111:Missing)	0
7711283	D (1322)	< 0.3
7711211	D (1344C)	< 0.3
7710686	D (1400)	0.7
7710678	D (1400D)	< 0.3
7714915	D (1400L2)	0.7
7704645	FB (1030)	< 0.3
7704622	FB (1038)	< 0.3
7710675	FB (1400S)	< 0.3
7711274	FB (2018)	< 0.3
7710673	OB (0)	< 0.3
7714925	OB (0)	< 0.3

Table Note:
* Missing or Compromised Sample

ATTACHMENT C

Laboratory Analytical Results

January 25, 2016

** LABORATORY ANALYSIS REPORT **

Radon test result report for:

PAINT BRANCH HS
MAIN

Kit #	Room Id	Started	Ended	pCi/L	Analyzed
7710673	0	2016-01-04 @ 7:00 pm	2016-01-07 @ 3:00 pm	< 0.3	2016-01-11
7714925	0	2016-01-04 @ 7:00 pm	2016-01-07 @ 3:00 pm	< 0.3	2016-01-11
7711210	1000B	2016-01-04 @ 9:00 am	2016-01-07 @ 8:00 am	0.5 ± 0.3	2016-01-11
7711214	1000C	2016-01-04 @ 9:00 am	2016-01-07 @ 8:00 am	0.8 ± 0.3	2016-01-11
7711217	1000F	2016-01-04 @ 9:00 am	2016-01-07 @ 8:00 am	< 0.3	2016-01-11
7711209	1000H	2016-01-04 @ 9:00 am	2016-01-07 @ 8:00 am	< 0.3	2016-01-11
7711223	1000I	2016-01-04 @ 9:00 am	2016-01-07 @ 8:00 am	1.0 ± 0.3	2016-01-11
7704607	1000J	2016-01-04 @ 9:00 am	2016-01-07 @ 8:00 am	< 0.3	2016-01-11
7711205	1000K	2016-01-04 @ 9:00 am	2016-01-07 @ 8:00 am	< 0.3	2016-01-12
7706532	1000L	2016-01-04 @ 9:00 am	2016-01-07 @ 8:00 am	< 0.3	2016-01-11
7711295	1000T	2016-01-04 @ 11:00 am	2016-01-07 @ 8:00 am	< 0.3	2016-01-11
7711259	1001	2016-01-04 @ 1:00 pm	2016-01-07 @ 10:00 am	0.6 ± 0.3	2016-01-11
7711271	1003	@	@		
7711239	1003	2016-01-04 @ 12:00 pm	2016-01-07 @ 10:00 am	< 0.3	2016-01-11
7711262	1003	2016-01-04 @ 12:00 pm	2016-01-07 @ 10:00 am	< 0.3	2016-01-11
7711242	1003	2016-01-04 @ 12:00 pm	2016-01-07 @ 10:00 am	< 0.3	2016-01-12
7711245	1015	2016-01-04 @ 12:00 pm	2016-01-07 @ 10:00 am	1.1 ± 0.3	2016-01-11
7711233	1015	2016-01-04 @ 12:00 pm	2016-01-07 @ 10:00 am	1.3 ± 0.3	2016-01-11
7711266	1015	2016-01-04 @ 12:00 pm	2016-01-07 @ 10:00 am	0.8 ± 0.3	2016-01-11
7711248	1015	2016-01-04 @ 12:00 pm	2016-01-07 @ 10:00 am	1.2 ± 0.4	2016-01-12
7711300	1015G	2016-01-04 @ 11:00 am	2016-01-07 @ 10:00 am	< 0.3	2016-01-12
7711273	1017	2016-01-04 @ 12:00 pm	2016-01-07 @ 10:00 am	2.5 ± 0.4	2016-01-11
7711212	1017C	2016-01-04 @ 12:00 pm	2016-01-07 @ 11:00 am	< 0.3	2016-01-11
7711293	1017D	2016-01-04 @ 12:00 pm	2016-01-07 @ 11:00 am	0.7 ± 0.3	2016-01-12
7708345	1018	2016-01-04 @ 9:00 am	2016-01-07 @ 11:00 am	< 0.3	2016-01-11
7706534	1018C	2016-01-04 @ 9:00 am	2016-01-07 @ 11:00 am	< 0.3	2016-01-11
7711207	1020	2016-01-04 @ 9:00 am	2016-01-07 @ 11:00 am	0.7 ± 0.3	2016-01-12
7706542	1020A	2016-01-04 @ 9:00 am	2016-01-07 @ 11:00 am	< 0.3	2016-01-11
7711275	1021/1025	2016-01-04 @ 11:00 am	2016-01-07 @ 9:00 am	< 0.3	2016-01-12
7711264	1023	2016-01-04 @ 12:00 pm	2016-01-07 @ 1:00 pm	< 0.3	2016-01-11
7711254	1024	2016-01-04 @ 1:00 pm	2016-01-07 @ 9:00 am	< 0.3	2016-01-11
7706731	1026	2016-01-04 @ 9:00 am	2016-01-07 @ 9:00 am	< 0.3	2016-01-11
7704645	1030	2016-01-04 @ 9:00 am	2016-01-07 @ 9:00 am	< 0.3	2016-01-11
7704690	1030	2016-01-04 @ 9:00 am	2016-01-07 @ 9:00 am	< 0.3	2016-01-11
7706517	1030	2016-01-04 @ 9:00 am	2016-01-07 @ 9:00 am	< 0.3	2016-01-11
7711226	1033	2016-01-04 @ 10:00 am	2016-01-07 @ 9:00 am	< 0.3	2016-01-11
7704622	1038	2016-01-04 @ 10:00 am	2016-01-07 @ 9:00 am	< 0.3	2016-01-11

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

January 25, 2016

** LABORATORY ANALYSIS REPORT **

Radon test result report for:

PAINT BRANCH HS
MAIN

Kit #	Room Id	Started	Ended	pCi/L	Analyzed
7704631	1038	2016-01-04 @ 10:00 am	2016-01-07 @ 9:00 am	< 0.3	2016-01-11
7704644	1038	2016-01-04 @ 10:00 am	2016-01-07 @ 9:00 am	< 0.3	2016-01-11
7706515	1038	2016-01-04 @ 10:00 am	2016-01-07 @ 9:00 am	< 0.3	2016-01-11
7706523	1038	2016-01-04 @ 10:00 am	2016-01-07 @ 9:00 am	< 0.3	2016-01-11
7711228	1038	2016-01-04 @ 10:00 am	2016-01-07 @ 9:00 am	< 0.3	2016-01-11
7711224	1038	2016-01-04 @ 10:00 am	2016-01-07 @ 9:00 am	< 0.3	2016-01-12
7711238	1102	2016-01-04 @ 12:00 pm	2016-01-07 @ 10:00 am	< 0.3	2016-01-11
7711261	1103	2016-01-04 @ 12:00 pm	2016-01-07 @ 10:00 am	< 0.3	2016-01-11
7711263	1103	2016-01-04 @ 12:00 pm	2016-01-07 @ 10:00 am	0.7 ± 0.3	2016-01-12
7711253	1105	2016-01-04 @ 12:00 pm	2016-01-07 @ 10:00 am	0.7 ± 0.3	2016-01-11
7711237	1105	2016-01-04 @ 12:00 pm	2016-01-07 @ 10:00 am	< 0.3	2016-01-12
7711246	1111	@	@		
7711250	1111	@	@		
7711267	1113	2016-01-04 @ 11:00 am	2016-01-07 @ 10:00 am	< 0.3	2016-01-11
7711249	1115	2016-01-04 @ 11:00 am	2016-01-07 @ 10:00 am	< 0.3	2016-01-12
7711241	1115E	2016-01-04 @ 11:00 am	2016-01-07 @ 10:00 am	< 0.3	2016-01-11
7711289	1115G	2016-01-04 @ 11:00 am	2016-01-07 @ 10:00 am	< 0.3	2016-01-11
7711297	1117	2016-01-04 @ 11:00 am	2016-01-07 @ 10:00 am	< 0.3	2016-01-11
7711268	1117B	2016-01-04 @ 11:00 am	2016-01-07 @ 10:00 am	< 0.3	2016-01-11
7711240	1117F	2016-01-04 @ 11:00 am	2016-01-07 @ 10:00 am	< 0.3	2016-01-11
7711276	1119	2016-01-04 @ 11:00 am	2016-01-07 @ 10:00 am	< 0.3	2016-01-11
7708328	1123	2016-01-04 @ 10:00 am	2016-01-07 @ 9:00 am	< 0.3	2016-01-11
7706525	1124	2016-01-04 @ 10:00 am	2016-01-07 @ 9:00 am	< 0.3	2016-01-11
7711213	1128	2016-01-04 @ 10:00 am	2016-01-07 @ 9:00 am	< 0.3	2016-01-11
7708346	1129	2016-01-04 @ 10:00 am	2016-01-07 @ 9:00 am	< 0.3	2016-01-11
7708616	1130	2016-01-04 @ 10:00 am	2016-01-07 @ 9:00 am	< 0.3	2016-01-11
7706513	1133	2016-01-04 @ 10:00 am	2016-01-07 @ 9:00 am	0.6 ± 0.3	2016-01-11
7706538	1134	2016-01-04 @ 10:00 am	2016-01-07 @ 9:00 am	< 0.3	2016-01-11
7711215	1142	2016-01-04 @ 10:00 am	2016-01-07 @ 9:00 am	< 0.3	2016-01-12
7704601	1142 OFFICE	2016-01-04 @ 10:00 am	2016-01-07 @ 9:00 am	< 0.3	2016-01-11
7711220	1143	2016-01-04 @ 10:00 am	2016-01-07 @ 9:00 am	< 0.3	2016-01-11
7708615	1200	2016-01-04 @ 9:00 am	2016-01-07 @ 9:00 am	< 0.3	2016-01-11
7711216	1201	2016-01-04 @ 9:00 am	2016-01-07 @ 9:00 am	< 0.3	2016-01-11
7706521	1204	2016-01-04 @ 9:00 am	2016-01-07 @ 9:00 am	0.6 ± 0.3	2016-01-11
7704632	1205	2016-01-04 @ 9:00 am	2016-01-07 @ 9:00 am	< 0.3	2016-01-11
7711218	1212	2016-01-04 @ 10:00 am	2016-01-07 @ 9:00 am	0.8 ± 0.3	2016-01-12
7711219	1216	2016-01-04 @ 10:00 am	2016-01-07 @ 9:00 am	< 0.3	2016-01-11

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

January 25, 2016

** LABORATORY ANALYSIS REPORT **

Radon test result report for:

PAINT BRANCH HS
MAIN

Kit #	Room Id	Started	Ended	pCi/L	Analyzed
7711222	1216A	2016-01-04 @ 10:00 am	2016-01-07 @ 9:00 am	< 0.3	2016-01-11
7711221	1220	2016-01-04 @ 10:00 am	2016-01-07 @ 9:00 am	< 0.3	2016-01-11
7708341	1222	2016-01-04 @ 10:00 am	2016-01-07 @ 9:00 am	< 0.3	2016-01-11
7711229	1227	2016-01-04 @ 10:00 am	2016-01-07 @ 9:00 am	< 0.3	2016-01-11
7706723	1302	2016-01-04 @ 9:00 am	2016-01-07 @ 9:00 am	< 0.3	2016-01-11
7711232	1312	@	@		
7711282	1316	2016-01-04 @ 11:00 am	2016-01-07 @ 10:00 am	< 0.3	2016-01-11
7711265	1317	2016-01-04 @ 11:00 am	2016-01-07 @ 10:00 am	< 0.3	2016-01-11
7711278	1318	2016-01-04 @ 11:00 am	2016-01-07 @ 10:00 am	< 0.3	2016-01-12
7711286	1319	2016-01-04 @ 11:00 am	2016-01-07 @ 10:00 am	< 0.3	2016-01-11
7711272	1319A	2016-01-04 @ 11:00 am	2016-01-07 @ 10:00 am	0.6 ± 0.3	2016-01-11
7711298	1322	2016-01-04 @ 11:00 am	2016-01-07 @ 10:00 am	< 0.3	2016-01-11
7711283	1322	2016-01-04 @ 11:00 am	2016-01-07 @ 10:00 am	< 0.3	2016-01-11
7711270	1324	2016-01-04 @ 11:00 am	2016-01-07 @ 10:00 am	0.8 ± 0.3	2016-01-11
7711277	1326	2016-01-04 @ 11:00 am	2016-01-07 @ 10:00 am	0.6 ± 0.3	2016-01-11
7711230	1342	2016-01-04 @ 10:00 am	2016-01-07 @ 9:00 am	0.6 ± 0.3	2016-01-12
7711225	1344B	2016-01-04 @ 10:00 am	2016-01-07 @ 9:00 am	< 0.3	2016-01-12
7711206	1344C	2016-01-04 @ 10:00 am	2016-01-07 @ 9:00 am	< 0.3	2016-01-11
7711211	1344C	2016-01-04 @ 10:00 am	2016-01-07 @ 9:00 am	< 0.3	2016-01-11
7711227	1344D	2016-01-04 @ 10:00 am	2016-01-07 @ 9:00 am	< 0.3	2016-01-11
7708386	1344E	2016-01-04 @ 10:00 am	2016-01-07 @ 9:00 am	< 0.3	2016-01-11
7711231	1344G	2016-01-04 @ 10:00 am	2016-01-07 @ 9:00 am	< 0.3	2016-01-11
7710686	1400	2016-01-04 @ 6:00 pm	2016-01-07 @ 11:00 am	0.7 ± 0.3	2016-01-12
7714916	1400	2016-01-04 @ 6:00 pm	2016-01-07 @ 11:00 am	0.7 ± 0.4	2016-01-12
7710682	1400A	2016-01-04 @ 6:00 pm	2016-01-07 @ 11:00 am	< 0.3	2016-01-12
7710667	1400D	2016-01-04 @ 6:00 pm	2016-01-07 @ 11:00 am	< 0.3	2016-01-12
7710678	1400D	2016-01-04 @ 6:00 pm	2016-01-07 @ 11:00 am	< 0.3	2016-01-12
7714922	1400I	2016-01-04 @ 6:00 pm	2016-01-07 @ 11:00 am	0.6 ± 0.3	2016-01-12
7714924	1400J	2016-01-04 @ 6:00 pm	2016-01-07 @ 11:00 am	< 0.3	2016-01-12
7714921	1400J2	2016-01-04 @ 6:00 pm	2016-01-07 @ 11:00 am	0.8 ± 0.3	2016-01-12
7714926	1400K	2016-01-04 @ 6:00 pm	2016-01-07 @ 11:00 am	1.0 ± 0.3	2016-01-12
7714919	1400K2	2016-01-04 @ 6:00 pm	2016-01-07 @ 11:00 am	0.9 ± 0.3	2016-01-12
7714915	1400L2	2016-01-04 @ 6:00 pm	2016-01-07 @ 11:00 am	0.7 ± 0.3	2016-01-11
7714918	1400L2	2016-01-04 @ 6:00 pm	2016-01-07 @ 11:00 am	< 0.3	2016-01-12
7710680	1400M	2016-01-04 @ 6:00 pm	2016-01-07 @ 11:00 am	0.8 ± 0.3	2016-01-11
7714920	1400M2	2016-01-04 @ 6:00 pm	2016-01-07 @ 11:00 am	< 0.3	2016-01-12
7711204	1400P	2016-01-04 @ 6:00 pm	2016-01-07 @ 12:00 pm	< 0.3	2016-01-12

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

January 25, 2016

** LABORATORY ANALYSIS REPORT **

Radon test result report for:

PAINT BRANCH HS
MAIN

Kit #	Room Id	Started	Ended	pCi/L	Analyzed
7714917	1400Q	2016-01-04 @ 6:00 pm	2016-01-07 @ 12:00 pm	< 0.3	2016-01-12
7710675	1400S	2016-01-04 @ 6:00 pm	2016-01-07 @ 11:00 am	< 0.3	2016-01-12
7710679	1400S	2016-01-04 @ 6:00 pm	2016-01-07 @ 11:00 am	< 0.3	2016-01-12
7710674	1400T	2016-01-04 @ 6:00 pm	2016-01-07 @ 11:00 am	0.7 ± 0.3	2016-01-12
7714923	1440L	2016-01-04 @ 6:00 pm	2016-01-07 @ 11:00 am	1.2 ± 0.4	2016-01-12
7711243	1609C	2016-01-04 @ 12:00 pm	2016-01-07 @ 10:00 am	< 0.3	2016-01-11
7711234	1609C	2016-01-04 @ 12:00 pm	2016-01-07 @ 10:00 am	< 0.3	2016-01-12
7711247	1613E	2016-01-04 @ 12:00 pm	2016-01-07 @ 10:00 am	< 0.3	2016-01-11
7711244	2010	2016-01-04 @ 1:00 pm	2016-01-07 @ 12:00 pm	< 0.3	2016-01-12
7711258	2010	2016-01-04 @ 1:00 pm	2016-01-07 @ 12:00 pm	< 0.3	2016-01-12
7711291	2012	2016-01-04 @ 1:00 pm	2016-01-07 @ 12:00 pm	< 0.3	2016-01-12
7711290	2018	2016-01-04 @ 1:00 pm	2016-01-07 @ 12:00 pm	< 0.3	2016-01-12
7711274	2018	2016-01-04 @ 1:00 pm	2016-01-07 @ 12:00 pm	< 0.3	2016-01-12
7711284	2221	@	@		
7711299	2315	2016-01-04 @ 1:00 pm	2016-01-07 @ 12:00 pm	< 0.3	2016-01-12
7711296	2328	2016-01-04 @ 1:00 pm	2016-01-07 @ 12:00 pm	< 0.3	2016-01-12
7708340	2409	2016-01-04 @ 1:00 pm	2016-01-07 @ 12:00 pm	0.6 ± 0.3	2016-01-12
7711285	2411	2016-01-04 @ 1:00 pm	2016-01-07 @ 12:00 pm	0.9 ± 0.3	2016-01-12
7711280	3214	2016-01-04 @ 1:00 pm	2016-01-07 @ 12:00 pm	0.5 ± 0.3	2016-01-12
7706509	MAIN OFFICE	2016-01-04 @ 9:00 am	2016-01-07 @ 8:00 am	< 0.3	2016-01-11

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

January 15, 2016

** LABORATORY ANALYSIS REPORT **

Radon test result report for:

MCPS PHASE 3 & 4
TRANSIT BLANKS

Kit #	Room Id	Started	Ended	pCi/L	Analyzed
7708218	TRAMSIT 4	2015-12-18 @ 12:00 pm	2015-12-21 @ 12:00 pm	< 0.3	2015-12-23
7708200	TRANSIT 1	2015-12-18 @ 12:00 pm	2015-12-21 @ 12:00 pm	< 0.3	2015-12-23
7708190	TRANSIT 10	2015-12-18 @ 12:00 pm	2015-12-21 @ 12:00 pm	< 0.3	2015-12-23
7708189	TRANSIT 11	2015-12-18 @ 12:00 pm	2015-12-21 @ 12:00 pm	< 0.3	2015-12-23
7708191	TRANSIT 12	2015-12-18 @ 12:00 pm	2015-12-21 @ 12:00 pm	< 0.3	2015-12-23
7708188	TRANSIT 13	2015-12-18 @ 12:00 pm	2015-12-21 @ 12:00 pm	< 0.3	2015-12-23
7708197	TRANSIT 14	2015-12-18 @ 12:00 pm	2015-12-21 @ 12:00 pm	< 0.3	2015-12-23
7708186	TRANSIT 15	2015-12-18 @ 12:00 pm	2015-12-21 @ 12:00 pm	< 0.3	2015-12-23
7708185	TRANSIT 16	2015-12-18 @ 12:00 pm	2015-12-21 @ 12:00 pm	< 0.3	2015-12-23
7708184	TRANSIT 17	2015-12-18 @ 12:00 pm	2015-12-21 @ 12:00 pm	< 0.3	2015-12-23
7708182	TRANSIT 18	2015-12-18 @ 12:00 pm	2015-12-21 @ 12:00 pm	< 0.3	2015-12-23
7708187	TRANSIT 18	2015-12-18 @ 12:00 pm	2015-12-21 @ 12:00 pm	< 0.3	2015-12-23
7708199	TRANSIT 2	2015-12-18 @ 12:00 pm	2015-12-21 @ 12:00 pm	< 0.3	2015-12-23
7708181	TRANSIT 20	2015-12-18 @ 12:00 pm	2015-12-21 @ 12:00 pm	< 0.3	2015-12-23
7708180	TRANSIT 21	2015-12-18 @ 12:00 pm	2015-12-21 @ 12:00 pm	< 0.3	2015-12-23
7708183	TRANSIT 22	2015-12-18 @ 12:00 pm	2015-12-21 @ 12:00 pm	< 0.3	2015-12-23
7708178	TRANSIT 23	2015-12-18 @ 12:00 pm	2015-12-21 @ 12:00 pm	< 0.3	2015-12-23
7708179	TRANSIT 24	2015-12-18 @ 12:00 pm	2015-12-21 @ 12:00 pm	< 0.3	2015-12-23
7708177	TRANSIT 25	2015-12-18 @ 12:00 pm	2015-12-21 @ 12:00 pm	< 0.3	2015-12-23
7708176	TRANSIT 26	2015-12-18 @ 12:00 pm	2015-12-21 @ 12:00 pm	< 0.3	2015-12-23
7708174	TRANSIT 27	2015-12-18 @ 12:00 pm	2015-12-21 @ 12:00 pm	< 0.3	2015-12-23
7708173	TRANSIT 28	2015-12-18 @ 12:00 pm	2015-12-21 @ 12:00 pm	< 0.3	2015-12-23
7708175	TRANSIT 29	2015-12-18 @ 12:00 pm	2015-12-21 @ 12:00 pm	< 0.3	2015-12-23
7708198	TRANSIT 3	2015-12-18 @ 12:00 pm	2015-12-21 @ 12:00 pm	< 0.3	2015-12-23
7708172	TRANSIT 30	2015-12-18 @ 12:00 pm	2015-12-21 @ 12:00 pm	< 0.3	2015-12-23
7708194	TRANSIT 5	2015-12-18 @ 12:00 pm	2015-12-21 @ 12:00 pm	< 0.3	2015-12-23
7708196	TRANSIT 6	2015-12-18 @ 12:00 pm	2015-12-21 @ 12:00 pm	< 0.3	2015-12-23
7708193	TRANSIT 7	2015-12-18 @ 12:00 pm	2015-12-21 @ 12:00 pm	< 0.3	2015-12-23
7708192	TRANSIT 8	2015-12-18 @ 12:00 pm	2015-12-21 @ 12:00 pm	< 0.3	2015-12-23
7708195	TRANSIT 9	2015-12-18 @ 12:00 pm	2015-12-21 @ 12:00 pm	< 0.3	2015-12-23

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

December 23, 2015

** LABORATORY ANALYSIS REPORT **

Spike Sample Laboratory Results

Radon test result report for:

MCPS

Kit #	Room Id	Started	Ended	pCi/L	Analyzed
7706380	101	2015-12-18 @ 9:00 am	2015-12-21 @ 9:00 am	25.2	2015-12-23
7706381	102	2015-12-18 @ 9:00 am	2015-12-21 @ 9:00 am	26.5	2015-12-23
7706208	103	2015-12-18 @ 9:00 am	2015-12-21 @ 9:00 am	27.7	2015-12-23
7705132	104	2015-12-18 @ 9:00 am	2015-12-21 @ 9:00 am	28.6	2015-12-23
7706366	105	2015-12-18 @ 9:00 am	2015-12-21 @ 9:00 am	26.5	2015-12-23
7706211	106	2015-12-18 @ 9:00 am	2015-12-21 @ 9:00 am	26.1	2015-12-23

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 173224

NOMINAL Conditions: Radon Conc 26.9 pCi/L Rel. Hum 49.6 % Temp. 69.9 F

Date Start: 12/18/15 Date Stop: 12/21/15	Date Start: _____ Date Stop: _____
Time Start: 0929 Time Stop: 0929	Time Start: _____ Time Stop: _____
Device No.'s: 7705132, 7706208, 7706211, 7706366, 7706380, 7706381 F3 Left	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: _____
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

KCI TECHNOLOGIES

ENGINEERS • PLANNERS • SCIENTISTS • CONSTRUCTION MANAGERS

Corporate Office: 936 Ridgebrook road • Sparks , Maryland 21152 • 410-316-7800 • (Fax) 410-316-7935

Chain of Custody

Project Name: MCPS Radon Phase IV

Name of Schools:

1. Albert Einstein HS
2. Bel Pre ES
3. Benjamin Banneker MS
4. Bethesda Chevy Chase HS
5. Beverly Farms ES
6. Cabin John MS
7. Chevy Chase ES
8. Farmland ES
9. Forest Oak MS
10. Gaithersburg HS
11. Garrett Park ES
12. Herbert Hoover MS
13. Kohn F. Kennedy HS
14. Julius West MS
15. Kensington Parkwood ES
16. Lakewood ES
17. Mill Creek ES
18. Montgomery Blair HS
19. Montgomery Village MS
20. Northwood HS
21. Paint Branch ES
22. Rock Creek Forest ES
23. Stephen Knolls School
24. Strathmore ES
25. Summit Hall ES
26. Travilah ES
27. Twinbrook ES
28. Waters Landing ES
29. Watkins Mill HAS
30. Weller Road ES
31. White Oak MS
32. Winston Churchill HS

	Date	Initials
Radon Test Kits Deployed	1/4/16	JM
Radon Test Kits Sampled	1/7/16	JM
Radon Test Kits Shipped to Lab*	1/8/16	JM
Radon Test Kits Received by Lab*	1/11/16	JM

*All samples sent to Air Check, Inc., 1936 Butler Bridge Road, Mills River, NC 28758

Note: tests kits deployed at Montgomery Blair HS 1/4/16 and 1/5/16, test kits sampled at Montgomery Blair HS 1/7/16 and 1/8/16