RADON SCREENING SURVEY – FOLLOW-UP TILDEN CENTER

6300 Tilden Lane, Rockville, Maryland 20852

Date of Test Report:	4/15/16 Follow-Up		
Round of Testing:	Initial		
	Follow-up		
	Post Remediation		
# Rooms Tested	2		
# Rooms <u>></u> 4.0 pCi/L:	0		
Low Value:	<0.4		
High Value:	0.7		
Confirmed Rooms ≥ 4.0 pCi/L US EPA	0		
Action Level			

EXECUTIVE SUMMARY

Summary of Sampling Events ≥ 4.0 pCi/L

Room	Result (pCi/L)	Result (pCi/L)	Average Result
	3/2/16 Initial	4/15/16 Follow-Up	(pCi/L)
B108	1.1 Tampered	<0.4	0.8
B108	0.6 Tampered	Not tested	0.6
C126A	Missing	0.7	0.7



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

MCPS RADON TESTING

Executive Summary: Tilden Center

Date of Test Report:	4/15/2016
Round of Testing:	Initial
(Follow-up
	Post Remediation
# Rooms Tested:	2
# Rooms \geq 4.0 pCi/L:	0
Low Value:	< 0.4
High Value:	0.7

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



ENGINEERS • PLANNERS • SCIENTISTS • CONSTRUCTION MANAGERS

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

April 15, 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 # 12146341.32
Location:	Tilden Center

Location: Tilden Center 6300 Tilden Lane Rockville, MD 20852

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 Tilden Center, located at 6300 Tilden Lane in Rockville, Maryland 20852 (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 14, 2016 and deployed three (3) 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 TCS Industries Inc. as spike samples. The spiked tests were exposed to a known radon concentration by TCS prior to being returned to the laboratory for analysis.

KCI returned to the site on March 17, 2016 to retrieve the radon sampling test kits. KCI 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 (certification # ARL0007) located at 929 Mount

Zion Road, Lebanon, Pennsylvania.

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.

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 office blanks 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 (410) 316-7800.

Mr. Richard Cox April 15, 2016 Page 4

Sincerely,

James Makler

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 12 testing. Office blanks were not submitted under each school individually.

Radon Testing Results						
Tilden Center						
Те	est Period: 03/14/16-03/17/16					
Kit Number Room / Area Result						
3028783	B108	<0.4				
3028790 C126 A 0.7						

	Radon Testing Results						
	Tilden Center						
	Test Period: 03/14/16-03/17/16						
Kit Number	QC Type	Result					
3028789	D (B108)	<0.4					

ATTACHMENT C

Laboratory Analytical Results



NRPP 10511AL

NRSB ARL0007

Radon in Air

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

Laboratory Report for:

Property Tested: Project # 12146341

KCI Technologies	Tilden Center
936 Ridgebrook Rd	6300 Tilden Lane
Sparks MD 21152	Rockville MD 20852

Log Number	Device Number	Test Exposu	re Duration:	:	Area Tested	Result (pCi/L)
3017547	3028790	03/14/2016 2:37 pm	03/17/2016	12:29 pm	C126 A	0.7
3017548	3028783	03/14/2016 3:05 pm	03/17/2016	12:33 pm	B108	<0.4
3017549	3028789	03/14/2016 3:05 pm	03/17/2016	12:33 pm	B108	<0.4

Comment: Beginning & ending time assumed as PM. Accurate results are dependent on the correct time. Contact the lab if this is incorrect. A copy of this report was emailed to tehsin@kci.com.

Distributed by: KCI Technologies, Inc.

Date Received: 03/21/2016 Date Logged:

03/21/2016

Date Analyzed: 03/21/2016 Date Reported: 03/22/2016

Disclaimer:

Report Reviewed By: ___ effry Cartin

Report Approved By: ______ Report Approved By: ______

Carolyn D. Koke, President, AccuStar Labs

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

1 of 1

Rev E1512



Sparks MD 21152

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:	Property Tested: Project # 12146341
KCI Technologies 936 Ridgebrook Rd	MCPS Radon Phase 12 Office Blank

Log Number	Device Number	Test Exposu	re Duration:	Area Tested	Result (pCi/L)
3017546	3029151	03/14/2016 9:30 am	03/17/2016 9:30 am	Unit # 0 Office First Floor	<0.4

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

Distributed by: KCI Technologies, Inc.

Date Received: 03/21/2016 Date Logged:

03/21/2016

Date Analyzed: 03/21/2016

Date Reported: 03/22/2016

Disclaimer:

Report Reviewed By: <u>Share Laburling</u> Report Approved By: <u>Caroly D. Koke</u> Carolyn D. Koke, President, AccuStar Labs

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Sparks MD 21152

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:	Property Tested: Project # 12146341
KCI Technologies 936 Ridgebrook Rd	MCPS Radon Phase 12 Office Blank

Log Number	Device Number	Test Exposu	re Duration:	Area Tested	Result (pCi/L)
3017545	3029152	03/15/2016 9:30 am	03/18/2016 9:30 am	Unit # 0 Office First Floor	<0.4

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

Distributed by: KCI Technologies, Inc.

Date Received: 03/21/2016 Date Logged:

03/21/2016

Date Analyzed: 03/21/2016

Date Reported: 03/22/2016

Disclaimer:

Report Reviewed By: <u>Share Laburling</u> Report Approved By: <u>Caroly D. Koke</u> Carolyn D. Koke, President, AccuStar Labs

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Radon in Air

				EPA Method #402-R-92-004					
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NRSB A	RL0007			NRPP Device Code 6048					
				NRSB Device Code 10317					
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ę	936 Ridgebro	ook Rd	Transit Blanks						
5	Sparks MD	21152							
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3010588	3028053	01/10/2016 1.00 pm $01/22/2016$ 9.30	am 1	< 0.4					

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3010588	3028953	01/19/2016 1:00 pm	01/22/2016 9:30 am	1	< (
3010589	3028955	01/19/2016 1:00 pm	01/22/2016 9:30 am	2	< (
3010590	3028954	01/19/2016 1:00 pm	01/22/2016 9:30 am	3	<
3010591	3028997	01/19/2016 1:00 pm	01/22/2016 9:30 am	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: Crueste Bates Report Approved By: Cruely D. Koke

Disclaimer:

Carolyn D. Koke, President, AccuStar Labs 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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TCS INDUSTRIES, INC.

(717) 657-7032

RADON GAS DETECTION

www.radondetek.com

4326 Crestview Road, Harrisburg, PA 17112

James Moulsdale KCI 936 Ridgebrook Rd. Sparks, MD 21152 April 04, 2016

Dear Mr. Moulsdale:

The spike exposure data were:

Start 04/04/16 @ 1110 hrs EDT End 04/06/16 @ 1113 hrs EDT

AC 3029218, 3029219, 3029220, 3029217, 3029214, 3029217, and 3029166

Average radon concentration was 10.6 pCi/L +/- 5%

Avg, Temp. was 71FAvg. RHwas 51%Elevationwas 490 feet above sea level

Sincerely,

Cut

Carl H. Distenfeld, CHP



NRPP 10511AL NRSB ARL0007

Laboratory Report for:

KCI Technologies

936 Ridgebrook Rd Sparks MD 21152 EPA Method #402-R-92-004 Charcoal Canister NRPP Device Code 6048 NRSB Device Code 10317

Property Tested:

MCPS Radon Spike Sample Laboratory Results

Log Number	Number	Test Exposur	e Duration:	Area Tested	Result (pCi/L)
3020102	3029166	04/04/2016 11:10 am	04/06/2016 11:1	3 am Not Indicated	11.9
3020103	3029214	04/04/2016 11:10 am	04/06/2016 11:1	3 am Not Indicated	11.5
3020104	3029217	04/04/2016 11:10 am	04/06/2016 11:1	3 am Not Indicated	10.7
3020105	3029218	04/04/2016 11:10 am	04/06/2016 11:1	3 am Not Indicated	11.3
3020106	3029219	04/04/2016 11:10 am	04/06/2016 11:1	3 am Not Indicated	11.0
3020107	3029220	04/04/2016 11:10 am	04/06/2016 11:1	3 am Not Indicated	10.5

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

Distributed by: KCI Technolo	gies, Inc.					
Date Received: 04/07/2016	Date Logged:	04/07/2016	Date Analyzed:	04/07/2016	Date Reported:	04/08/2016
Note: Spike samples are test canisters t They provide a quality control measur tested.	hat are deliberately exp e in the testing process	osed to a controlled h and do NOT reflect ra	igh level of radon in a lat Idon levels in the buildin	boratory. g being		
Report Review Disclaimer: The uncertainty of this radon measu concentrations, sample collection ter	red By:	Factors contributing	Report Approv	ed By: Carolyn statistical variatio ditions may influ	D. Koke, President, Ad ns, daily and seasonal ence the test results.	ccuStar Labs variations in radon

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PO BOX 990 Jonestown PA 17038 717-274-8310

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

1 of 1

Rev E1512



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

MCPS RADON TESTING

Executive Summary: Tilden Center

Date of Test Report:	3/2/2016
Round of Testing:	Initial
	Follow-up
	Post Remediation
# Rooms Tested:	33
# Rooms \geq 4.0 pCi/L:	0
Low Value:	< 0.3
High Value:	2.3

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



ENGINEERS • PLANNERS • SCIENTISTS • CONSTRUCTION MANAGERS

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

March 2, 2016

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



Location: Tilden Center 6300 Tilden Lane Rockville, MD 20852

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 Tilden Center, located at 6300 Tilden Lane in Rockville, Maryland 20852 (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 1, 2016 and deployed forty-two (42) 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 February 4, 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.

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 Attachn	nent B

Notes:

D- Duplicate sample

The 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.

Mr. Richard Cox March 2, 2016 Page 4

Sincerely,

James Makler

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

	Radon Testing Results						
	Tilden Center						
	Test Period: 02/01/16-02/04/16						
Kit Number	Kit Number Room / Area Result						
7718949	A101	1.3					
7722582	A104	1.5					
7727205	A104	0.9					
7718954	A105	1.7					
7717400	A109	0.9					
7718953	B101	1.3					
7722578	B104	2.0					
7717394	* B108 (Tampered)	1.1					
7717396	* B108 (Tampered)	0.6					
7718948	B109	1.5					
7727201	C103	< 0.3					
7718951	C104	1.1					
7727206	C106	0.7					
7722598	C106A	0.8					
7718950	C107	0.7					
7722586	C108	0.8					
7722600	C109	1.0					
7727202	C110	0.7					
7717397	C111	0.8					
7722593	C116	1.2					
7717389	C120	< 0.3					
7717390	C121	< 0.3					
7722587	C122	0.6					
7718956	C123	0.7					
7722589	C126	1.3					
7722580	* C126A (Missing)	-					
7722592	C126B	1.1					
7717392	C126C	1.1					
7722596	C126D	1.4					
7722599	C126E	1.4					
7718955	C126G	2.3					
7727208	C203	0.7					
7722597	C204	0.8					
7718952	C205	< 0.3					
7722594	C206	0.9					

Radon Testing Results Tilden Center			
Kit Number	QC Type	Result	
7717395	D (C111)	0.8	
7717398	D (C120)	< 0.3	
7717391	D (C126C)	0.9	
7727203	D (C206)	0.8	
7722588	FB (C126)	< 0.3	
7727207	FB (C205)	< 0.3	
7722579	OB (0)	< 0.3	

ATTACHMENT C

Laboratory Analytical Results

February LABORATORY ANALYSIS 23, REPORT **

Radon test result report for: TILDEN CENTER MAIN

Kit #	Room Id	Started	Ended	pCi/L	Analyzed
7722579	0	2016-02-01 @ 5:00 pm	2016-02-04 @ 2:00 pm	< 0.3	2016-02-08
7718949	A101	2016-02-01 @ 12:00 pm	2016-02-04 @ 11:00 am	1.3 ± 0.4	2016-02-08
7727205	A104	2016-02-01 @ 12:00 pm	2016-02-04 @ 11:00 am	0.9 ± 0.3	2016-02-08
7722582	A104	2016-02-01 @ 12:00 pm	2016-02-04 @ 11:00 am	1.5 ± 0.4	2016-02-08
7718954	A105	2016-02-01 @ 12:00 pm	2016-02-04 @ 11:00 am	1.7 ± 0.4	2016-02-08
7717400	A109	2016-02-01 @ 12:00 pm	2016-02-04 @ 11:00 am	0.9 ± 0.3	2016-02-08
7718953	B101	2016-02-01 @ 12:00 pm	2016-02-04 @ 11:00 am	1.3 ± 0.4	2016-02-08
7722578	B104	2016-02-01 @ 12:00 pm	2016-02-04 @ 11:00 am	2.0 ± 0.4	2016-02-08
7717394	B108	2016-02-01 @ 12:00 pm	2016-02-04 @ 11:00 am	1.1 ± 0.3	2016-02-08
7717396	B108	2016-02-01 @ 12:00 pm	2016-02-04 @ 11:00 am	0.6 ± 0.3	2016-02-08
7718948	B109	2016-02-01 @ 12:00 pm	2016-02-04 @ 11:00 am	1.5 ± 0.4	2016-02-08
7727201	C103	2016-02-01 @ 12:00 pm	2016-02-04 @ 11:00 am	< 0.3	2016-02-08
7718951	C104	2016-02-01 @ 1:00 pm	2016-02-04 @ 11:00 am	1.1 ± 0.3	2016-02-08
7727206	C106	2016-02-01 @ 1:00 pm	2016-02-04 @ 11:00 am	0.7 ± 0.3	2016-02-08
7722598	C106A	2016-02-01 @ 1:00 pm	2016-02-04 @ 11:00 am	0.8 ± 0.3	2016-02-08
7718950	C107	2016-02-01 @ 1:00 pm	2016-02-04 @ 11:00 am	0.7 ± 0.3	2016-02-08
7722586	C108	2016-02-01 @ 1:00 pm	2016-02-04 @ 11:00 am	0.8 ± 0.3	2016-02-08
7722600	C109	2016-02-01 @ 1:00 pm	2016-02-04 @ 11:00 am	1.0 ± 0.3	2016-02-08
7727202	C110	2016-02-01 @ 12:00 pm	2016-02-04 @ 11:00 am	0.7 ± 0.3	2016-02-08
7717395	C111	2016-02-01 @ 12:00 pm	2016-02-04 @ 11:00 am	0.8 ± 0.3	2016-02-08
7717397	C111	2016-02-01 @ 12:00 pm	2016-02-04 @ 11:00 am	0.8 ± 0.3	2016-02-08
7722593	C116	2016-02-01 @ 12:00 pm	2016-02-04 @ 11:00 am	1.2 ± 0.3	2016-02-08
7717389	C120	2016-02-01 @ 12:00 pm	2016-02-04 @ 11:00 am	< 0.3	2016-02-08
7717398	C120	2016-02-01 @ 12:00 pm	2016-02-04 @ 11:00 am	< 0.3	2016-02-08
7717390	C121	2016-02-01 @ 12:00 pm	2016-02-04 @ 11:00 am	< 0.3	2016-02-08
7722587	C122	2016-02-01 @ 12:00 pm	2016-02-04 @ 11:00 am	0.6 ± 0.3	2016-02-08
7718956	C123	2016-02-01 @ 12:00 pm	2016-02-04 @ 11:00 am	0.7 ± 0.3	2016-02-08
7722588	C126	2016-02-01 @ 11:00 am	2016-02-04 @ 11:00 am	< 0.3	2016-02-08
7722589	C126	2016-02-01 @ 11:00 am	2016-02-04 @ 11:00 am	1.3 ± 0.3	2016-02-08
7722580	C126A	@	@		
7722592	C126B	2016-02-01 @ 11:00 am	2016-02-04 @ 11:00 am	1.1 ± 0.3	2016-02-08
7717391	C126C	2016-02-01 @ 12:00 pm	2016-02-04 @ 11:00 am	0.9 ± 0.3	2016-02-08
7717392	C126C	2016-02-01 @ 12:00 pm	2016-02-04 @ 11:00 am	1.1 ± 0.3	2016-02-08
7722596	C126D	2016-02-01 @ 12:00 pm	2016-02-04 @ 11:00 am	1.4 ± 0.3	2016-02-08
7722599	C126E	2016-02-01 @ 12:00 pm	2016-02-04 @ 11:00 am	1.4 ± 0.4	2016-02-08
7718955	C126G	2016-02-01 @ 12:00 pm	2016-02-04 @ 11:00 am	2.3 ± 0.4	2016-02-08
7727208	C203	2016-02-01 @ 1:00 pm	2016-02-04 @ 11:00 am	0.7 ± 0.3	2016-02-08

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

February LABORATORY ANALYSIS 23, REPORT **

Radon test result report for: TILDEN CENTER MAIN

Kit #	Room Id	Started		Ended	pC	i/L Analyzed
7722597	C204	2016-02-01 @ 1	:00 pm	2016-02-04 @ 11:00 a	m $0.8 \pm 0.$	3 2016-02-08
7727207	C205	2016-02-01 @ 1	:00 pm	2016-02-04 @ 11:00 a	m < 0.	3 2016-02-08
7718952	C205	2016-02-01 @ 1	:00 pm	2016-02-04 @ 11:00 a	m < 0.	3 2016-02-08
7727203	C206	2016-02-01 @ 1	:00 pm	2016-02-04 @ 11:00 a	m $0.8 \pm 0.$	3 2016-02-08
7722594	C206	2016-02-01 @ 1	:00 pm	2016-02-04 @ 11:00 a	m $0.9 \pm 0.$	3 2016-02-08

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

February LABORATORY ANALYSIS 23, REPORT **

Radon test result report for: TRANSIT- PHASE 7, 8, 9 NONE

Kit #	Room Id	Started	Ended	pCi/L	Analyzed
7734937	1	2016-02-19 @ 3:00 pm	2016-02-22 @ 11:00 am	< 0.3	2016-02-23
7734946	10	2016-02-19 @ 4:00 pm	2016-02-22 @ 11:00 am	< 0.3	2016-02-23
7734955	11	2016-02-19 @ 4:00 pm	2016-02-22 @ 11:00 am	< 0.3	2016-02-23
7734956	12	2016-02-19 @ 4:00 pm	2016-02-22 @ 11:00 am	< 0.3	2016-02-23
7734959	13	2016-02-19 @ 4:00 pm	2016-02-22 @ 11:00 am	< 0.3	2016-02-23
7734930	14	2016-02-19 @ 4:00 pm	2016-02-22 @ 11:00 am	< 0.3	2016-02-23
7734953	15	2016-02-19 @ 4:00 pm	2016-02-22 @ 11:00 am	< 0.3	2016-02-23
7734954	16	2016-02-19 @ 4:00 pm	2016-02-22 @ 11:00 am	< 0.3	2016-02-23
7734940	17	2016-02-19 @ 4:00 pm	2016-02-22 @ 11:00 am	< 0.3	2016-02-23
7734949	18	2016-02-19 @ 4:00 pm	2016-02-22 @ 11:00 am	< 0.3	2016-02-23
7734948	19	2016-02-19 @ 4:00 pm	2016-02-22 @ 11:00 am	< 0.3	2016-02-23
7734939	2	2016-02-19 @ 3:00 pm	2016-02-22 @ 11:00 am	< 0.3	2016-02-23
7734942	20	2016-02-19 @ 4:00 pm	2016-02-22 @ 11:00 am	< 0.3	2016-02-23
7734929	21	2016-02-19 @ 4:00 pm	2016-02-22 @ 11:00 am	< 0.3	2016-02-23
7734933	22	2016-02-19 @ 4:00 pm	2016-02-22 @ 11:00 am	< 0.3	2016-02-23
7734934	23	2016-02-19 @ 4:00 pm	2016-02-22 @ 11:00 am	< 0.3	2016-02-23
7734936	24	2016-02-19 @ 4:00 pm	2016-02-22 @ 11:00 am	< 0.3	2016-02-23
7734943	25	2016-02-19 @ 4:00 pm	2016-02-22 @ 11:00 am	< 0.3	2016-02-23
7734944	26	2016-02-19 @ 4:00 pm	2016-02-22 @ 11:00 am	< 0.3	2016-02-23
7734935	27	2016-02-19 @ 4:00 pm	2016-02-22 @ 11:00 am	< 0.3	2016-02-23
7734928	28	2016-02-19 @ 4:00 pm	2016-02-22 @ 11:00 am	< 0.3	2016-02-23
7734952	29	2016-02-19 @ 4:00 pm	2016-02-22 @ 11:00 am	< 0.3	2016-02-23
7734947	3	2016-02-19 @ 3:00 pm	2016-02-22 @ 11:00 am	< 0.3	2016-02-23
7734931	30	2016-02-19 @ 4:00 pm	2016-02-22 @ 11:00 am	< 0.3	2016-02-23
7734932	31	2016-02-19 @ 4:00 pm	2016-02-22 @ 11:00 am	< 0.3	2016-02-23
7718520	32	2016-02-19 @ 4:00 pm	2016-02-22 @ 11:00 am	< 0.3	2016-02-23
7718523	33	2016-02-19 @ 4:00 pm	2016-02-22 @ 11:00 am	< 0.3	2016-02-23
7718522	34	2016-02-19 @ 4:00 pm	2016-02-22 @ 11:00 am	< 0.3	2016-02-23
7718521	35	2016-02-19 @ 4:00 pm	2016-02-22 @ 11:00 am	< 0.3	2016-02-23
7734945	4	2016-02-19 @ 3:00 pm	2016-02-22 @ 11:00 am	< 0.3	2016-02-23
7734960	5	2016-02-19 @ 4:00 pm	2016-02-22 @ 11:00 am	< 0.3	2016-02-23
7734958	6	2016-02-19 @ 4:00 pm	2016-02-22 @ 11:00 am	< 0.3	2016-02-23
7734951	7	2016-02-19 @ 4:00 pm	2016-02-22 @ 11:00 am	< 0.3	2016-02-23
7734957	8	2016-02-19 @ 4:00 pm	2016-02-22 @ 11:00 am	< 0.3	2016-02-23
7734938	9	2016-02-19 @ 4:00 pm	2016-02-22 @ 11:00 am	< 0.3	2016-02-23

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February LABORATORY ANALYSIS 15, REPORT **

Spike Sample Laboratory Results

Radon test result report for: MCPS

Kit #	Room Id	Started	Ended	pCi/L	Analyzed
7718273	101A	2016-01-30 @ 9:00 am	2016-02-01 @ 9:00 am	6.5 ± 0.6	2016-02-04
7718281	102B	2016-01-30 @ 9:00 am	2016-02-01 @ 9:00 am	6.4 ± 0.6	2016-02-04
7718282	103C	2016-01-30 @ 9:00 am	2016-02-01 @ 9:00 am	6.3 ± 0.6	2016-02-04
7718288	104D	2016-01-30 @ 9:00 am	2016-02-01 @ 9:00 am	6.7 ± 0.6	2016-02-04
7718289	105E	2016-01-30 @ 9:00 am	2016-02-01 @ 9:00 am	6.6 ± 0.6	2016-02-04
7718291	106F	2016-01-30 @ 9:00 am	2016-02-01 @ 9:00 am	6.5 ± 0.6	2016-02-04

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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 KCF Technologie	5 Inc. Job Number 173704
NOMINAL Conditions: Radon Conc 5.9	pCi/L Rel. Hum <u>45.9</u> % Temp. <u>79.0</u> F
Date Start: 1/30/16 Date Stop: 2/1/16	Date Start: Date Stop:
Time Start: <u>9926</u> Time Stop: <u>9986</u>	Time Start: Time Stop:
Device No.'s: (6) Char. Bago-	Device No.'s:
, ופבצורר, הוצבצורר ווצבצורר	
7718288, 7718289, 7718273	
E3 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



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Radon Test Kit Chain of Custody

Project Name: MCPS Radon Phase 7 (2-1-2016)

Name of School/Facility:

1.	Wyngate E.S.	10. Bethesda Depot	18. Stone Mill E.S.
2.	Seven Locks E.S.	11. Bethesda Trans Depot	19. Strawberry Knoll E.S.
3.	Takoma Park M.S.	12. Sligo M.S.	20. Shady Grove M.S.
4.	Somerset E.S.	13. Stonegate E.S.	21. Washington Grove E.S.
5.	Silver Spring Int. M.S.	14. Randolph Transportation	22. Sherwood E.S.
6.	Sligo Creek E.S.	15. Earl B. Wood M.S.	23. Woodfield E.S.
7.	Tilden M.S.	16. Sargent Shriver E.S.	24. Taylor Learning Center
8.	Tilden Center	17. Thomas Wooten H.S.	25. Kingsley Wilderness

9. Bethesda Annex

	Date	Initials
Radon Test Kits Deployed	2/1/16	M
Radon Test Kits Collected	2/4/16	JM
Radon Test Kits Shipped to Lab*	2/4/16	JUM
Radon Test Kits Received by Lab*	2/8/16	JM

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



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Radon Test Kit Chain of Custody

Project Name: MCPS Radon Phase 7 (2-2-2016)

Name of School/Facility:

- 1. Concord Center
- 2. Lynnbrook Center
- 3. Carver (CESC)
- 4. Spring Mill (area 1 Office)
- 5. Wheaton H.S
- 6. Montrose Center
- 7. West Farm Trans Depot

- 8. Food & Nutritional Services
- 9. Fairland Center
- 10. Redland M.S. (retest)
- 11. Clarksburg Trans Depot
- 12. Clarksburg Main Depot
- 13. Clarksburg E.S.

	Date	Initials
Radon Test Kits Deployed	2/2/16	1M
Radon Test Kits Collected	2/5/16	ÎM
Radon Test Kits Shipped to Lab*	2/5/16	Ĵμ
Radon Test Kits Received by Lab*	2/9/16	JA

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