

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

MCPS RADON TESTING

Executive Summary: Festival Center

Date of Test Report:	4/15/2016
Round of Testing:	Initial
	Follow-up
	Post Remediation
# Rooms Tested:	11
# Rooms \geq 4.0 pCi/L:	0
Low Value:	< 0.4
High Value:	1.0

Project Status: Initial testing 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:	Festival Center

Location: Festival Center 283 Muddy Branch Road Gaithersburg, MD 20878

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 Festival Center, located at 283 Muddy Branch Road in Gaithersburg, Maryland 20878 (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 15, 2016 and deployed twelve (12) 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 18, 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 Attachn	nent 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 Makelen

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.

Festival Center Test Period: 03/15/16-03/18/16							
Kit Number	Room / Area	Result					
3029176	1	1.0					
3029180	2	0.6					
3029172	3	0.9					
3029174	4	<0.4					
3029175	5	0.6					
3029179	6	<0.4					
3029145	Conf. room	<0.4					
3029041	Hoffman Training Room	0.9					
3029075	Kitchen/lounge	<0.4					
3029178	Secretary	0.4					
3029177	Training Room	0.8					
3029173	Training Room	0.7					

ATTACHMENT C

Laboratory Analytical Results



NRPP 10511AL NRSB ARL0007

Laboratory Report for:

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

Property Tested: Project # 12146341

KCI Technologies	Festival Center
936 Ridgebrook Rd	283 Muddy Branch Road
Sparks MD 21152	Gaithersburg MD 20878

Log Number	Device Number	Test Exposur	e Duration:	Area Tested	Result (pCi/L)
3017565	3029179	03/15/2016 8:10 am	03/18/2016 8:16 am	Unit 6 First Floor	<0.4
3017566	3029173	03/15/2016 8:12 am	03/18/2016 8:18 am	Large Training Room First Floor	0.7
3017567	3029177	03/15/2016 8:13 am	03/18/2016 8:14 am	Large Training Room First Floor	0.8
3017568	3029175	03/15/2016 8:17 am	03/18/2016 8:20 am	Unit 5 First Floor	0.6
3017569	3029174	03/15/2016 8:19 am	03/18/2016 8:21 am	Unit 4 First Floor	<0.4
3017570	3029172	03/15/2016 8:21 am	03/18/2016 8:22 am	Unit 3 First Floor	0.9
3017571	3029180	03/15/2016 8:24 am	03/18/2016 8:23 am	Unit 2 First Floor	0.6
3017572	3029145	03/15/2016 8:26 am	03/18/2016 8:24 am	Conference Room First Floor	<0.4
3017573	3029176	03/15/2016 8:31 am	03/18/2016 8:26 am	Unit 1 First Floor	1.0
3017574	3029075	03/15/2016 8:32 am	03/18/2016 8:27 am	Kitchen / Lounge 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: 03/22/2016

Date Reported: 03/22/2016

Report Reviewed By: Course Bates

Report Approved By: Couche A. Koho

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. 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.



Laboratory Report for:

NRPP 10511AL

NRSB ARL0007

Radon in Air

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

Property Tested: Project # 12146341

KCI Technologies	Festival Center
936 Ridgebrook Rd	283 Muddy Branch Road
Sparks MD 21152	Gaithersburg MD 20878

Log Number	Device Number	Test Exposu	re Duration:	Area Tested	Result (pCi/L)
3017575	3029041	03/15/2016 8:35 am	03/18/2016 8:28 am	Hoffman Training Room First Floor	0.9
3017576	3029178	03/15/2016 8:38 am	03/18/2016 8:12 am	Secretary First Floor	0.4

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

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Test must start before the expiration date sh

Rev E1512

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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)
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

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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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

NRPP 10 NRSB A					EPA Method #402-R-92-004 Charcoal Canister NRPP Device Code 6048 NRSB Device Code 10317	
Labora	atory Report	for:		Property Tested:		
ę	KCI Technolo 936 Ridgebro Sparks MD	•		MCPS Transit Blanks		
Log Number 3010588	Device Number 3028953	Test Exposu	re Duration: 01/22/2016 9:30 am	Area Tested	Result (pCi/L < 0.4	.)
3010388	JUZ0933	01/19/2016 1:00 pm	01/22/2010 9:30 am		< 0.4	

Number	Number					
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: Cruese Bates Report Approved By: Curly 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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Return canisters for analysis to: AccuStar Labs 929 Mt. Zion Rd., Lebanon, PA 1 800-523-4964	Return canisters for analysis to: AccuStar Labs 929 Mt. Zion Rd., Lebanon, PA 17046 RECEIVED JAN 2NFORMATION FORM - Large Buildings 800-523-4964 Projects - Apartments	ED JAN 2NFORMAT	uStar Labs ATION FOF Projects -	AccuStar Labs – Lebanon, PA RMATION FORM - Large Build Projects - Apartments	n, PA Buildings - Its		Instructions on back of form Read instructions carefully Discrepancies will invalidate tests	ck of fo careful invalid	rm ly ate tests	
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6-42

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	Device Number	Test Exposur	e Duration:	Area Tested	Result (pCi/L)
3020102	3029166	04/04/2016 11:10 am	04/06/2016 11:13 am	Not Indicated	11.9
3020103	3029214	04/04/2016 11:10 am	04/06/2016 11:13 am	Not Indicated	11.5
3020104	3029217	04/04/2016 11:10 am	04/06/2016 11:13 am	Not Indicated	10.7
3020105	3029218	04/04/2016 11:10 am	04/06/2016 11:13 am	Not Indicated	11.3
3020106	3029219	04/04/2016 11:10 am	04/06/2016 11:13 am	Not Indicated	11.0
3020107	3029220	04/04/2016 11:10 am	04/06/2016 11:13 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.	· 1		0			
Report Review Disclaimer: The uncertainty of this radon measu concentrations, sample collection ter		Factors contributing	to uncertainty include s	Carolyn statistical variatio	· ·	cuStar Labs

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

PO BOX 990 Jonestown PA 17038 717-274-8310

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Contact Information:	<u></u>			tian	umber	Le		Stop Date	4/6/16					>			
Contac	Contact	Telephone		Technician				Start Time	11:10an	_				\uparrow			
		nd Dr			20850			Start Date	4/4/16					>			
Site Tested:	Site Name MC PS	Address 852 Hurverd	Address	City / Town Rockw/le	State/Province Postal Code MD	Test Country Montgomery County	Project Number 12146341	Name of Room Temp		2	M	J	Ь	9			
labs.com	S	▼	A		S			Floor	1	-		1	-	-			
	JC L	p			21152			Unit Number									
Medway MA 02053	KCI Technologies, Inc	936 Ridgebrook Road			MD	e County	kci.com	Building Number	1		-						
n Report Tc	KCI Tec	936 Rid(Sparks	ce Postal Co	try Baltimor	ss tehsin@kci.com	Device Number	3029166	3029214	3029217	3029218	3029219	3029220		-	
Professional Redon Leboratory Services Since 1984 Send Written Report To:	Name	Address	Address	City / Town	State/Province Postal Code	Report Country Baltimore County	Email Address	Lab Use Only			., .			• - 1			

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

1 of 1

Rev E1512