

J.C. Broderick & Associates, Inc.

Environmental / Construction Consulting & Testing



1775 Expressway Drive North
Hauppauge, NY 11788
631.584.5492
Fax: 631.584.3395
www.jcbroderick.com

January 15, 2021

Mr. Severino Fasulo
Syosset Central School District
99 Pell Lane
Syosset, New York 11791

**Re: Indoor Radon Sampling
South Grove Elementary School
60 Colony Lane
Syosset, New York 11791
Sampling Dates: December 28-31, 2020**

JCB#: 20-46692A

Dear Mr. Fasulo:

J.C. Broderick and Associates, Inc. (JCB) was retained to perform indoor radon sampling within the above referenced school building.

The sampling was performed by experienced JCB representatives following the EPA Radon Measurement in Schools (EPA 402-R-92-014) guidance document. Sampling was performed utilizing Short-Term test devices which were placed in frequently occupied rooms in contact with the ground after the building was closed for a minimum of 12 hours.

The samples were assigned unique identification numbers, logged into a chain of custody document, and delivered to an accredited laboratory for the analysis of Radon. The results were compared with the decision-making flowchart found in the EPA Radon Measurement in Schools (EPA 402-R-92-014) guidance document which establishes an action level of 4 pCi/L.

The results of the sampling performed revealed the following:

- All results were reported below the EPA action level.

Please see the attached laboratory reports to be included in the District's Radon Measurement Plan. If there are any questions or if more information is needed, please feel free to contact our office.

Sincerely,

A handwritten signature in black ink, appearing to read 'Bryan Ezelius', written over a light blue horizontal line.

Bryan Ezelius
J. C. Broderick & Associates, Inc.

A handwritten signature in black ink, appearing to read 'Edward McGuire III', written over a light blue horizontal line.

Edward McGuire III
J. C. Broderick & Associates, Inc.

Fed ex 7959 7903 2047

M4 2D



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

EMSL ANALYTICAL, INC.
200 ROUTE 130 NORTH
CINNAMINSON, NJ 08077
PHONE: 800-220-3675
www.emsl.com

EMSL Job #: 382100109

EMSL ANALYTICAL, INC.

Company Information:

EMSL Acct #: _____

Company Name: JC Broderick & Associates

Contact: Bryan Ezelius

Address: 1775 Expressway Dr N Hauppauge

City: Hauppauge

State: New York Zip: 11788

Phone: 631-584-5442 Fax: _____

Email: Bezelius@JCBroderick.com

Technician Certification #: _____

Tech Name: Jarett Boniface

Tech Signature: [Signature]

Project/Site Information: *Required

Project Name: South Grove Elementary School

Project # / PO: 20-46692

*Address: 60 Colony Lane

*City: Syosset *State: NY *Zip: 11791

*Building type? Residential Non-Residential
 School Other: _____

*Building foundation type? Basement Crawlspace
 Slab on Grade Other: _____

Special Notes / Instructions: _____

***Turnaround Time (TAT) Options**

1 Day 2 Day 3 Day 4 Day

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

(S) Sample (B) Blank (D) Duplicate	Device Number	Location	Room #	Exposure Period Beginning Date		Exposure Period Ending Date		Temp, °F	Humidity, %
				Date	Time	Date	Time		
(S) Sample	<u>439603</u>	<u>Center Desk</u>	<u>2005</u>	<u>12/28/20</u>	<u>8:50</u>	<u>12/31/20</u>	<u>10:05</u>	<u>70.1</u>	<u>26.1</u>
S	<u>439594</u>	<u>Center Table</u>	<u>2002</u>	<u>12/28/20</u>	<u>8:52</u>	<u>12/31/20</u>	<u>10:06</u>	<u>73.2</u>	<u>27.3</u>
B	<u>439668</u>								
S	<u>439691</u>	<u>Center Desk</u>	<u>2008</u>	<u>12/28/20</u>	<u>8:55</u>	<u>12/31/20</u>	<u>10:06</u>	<u>67.7</u>	<u>23.6</u>
D	<u>439528</u>								
S	<u>439584</u>	<u>Center Table</u>	<u>2011</u>	<u>12/28/20</u>	<u>8:57</u>	<u>12/31/20</u>	<u>10:07</u>	<u>80.1</u>	<u>28.2</u>
S	<u>439661</u>	<u>Center Desk</u>	<u>2015</u>	<u>12/28/20</u>	<u>8:58</u>	<u>12/31/20</u>	<u>10:08</u>	<u>69.8</u>	<u>24.4</u>
S	<u>439701</u>	<u>Center Table</u>	<u>2018</u>	<u>12/28/20</u>	<u>8:59</u>	<u>12/31/20</u>	<u>10:09</u>	<u>69.3</u>	<u>26.2</u>
S	<u>439622</u>	<u>Center Desk</u>	<u>2023</u>	<u>12/28/20</u>	<u>9:00</u>	<u>12/31/20</u>	<u>10:12</u>	<u>67.6</u>	<u>26.1</u>

Relinquished by (Sign): _____ Date: _____ Time: _____ Page of _____

Received by EMSL (Sign): [Signature] Date: 1/5/21 Time: 12:11

Domènec Bohner



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EMSL ANALYTICAL, INC.
200 ROUTE 130 NORTH
CINNAMINSON, NJ 08077
PHONE: 800-220-3675
www.emsl.com

EMSL Job #: _____

EMSL ANALYTICAL, INC.

(S) Sample (B) Blank (D) Duplicate	Device Number	Location	Room #	Exposure Period Beginning Date		Exposure Period Ending Date		Temp, °F	Humidity, %
				Date	Time	Date	Time		
S B	439527 439573	Center Table	2030	12/23/20	9:09	12/31/20	10:13	68.9	24.3
S	439572	Center Desk	2027	12/28/20	9:10	12/31/20	10:15	68.8	24.1
S	439650	Center Desk	2032	12/28/20	9:12	12/31/20	10:16	67.9	23.8
S	439678	Center Desk	2070	12/28/20	9:14	12/31/20	10:18	67.7	23.5
S D	439722 439557	Center Desk	2068B	12/28/20	9:20	12/31/20	10:20	69.9	24.6
S	439726	Center Table	2041	12/19/20	9:24	12/31/20	10:22	75.3	24.1
S	439689	Center Desk	2043	12/28/20	9:25	12/31/20	10:25	75.2	24.2
S	439597	Center Table	2044	12/28/20	9:26	12/31/20	10:28	75.3	24.3
S	439638	Center Table	2068	12/28/20	9:28	12/31/20	10:29	71.2	23.8
S	439620	Center Desk	2096	12/28/20	9:30	12/31/20	SAMPLE DISPLAYED	70.3	23.2
S B	439574 439736	Center Desk	2071	12/28/20	9:33	12/31/20	10:32	71.7	24.1
S	439596	Center Desk	2075	12/28/20	9:35	12/31/20	10:34	69.9	23.6
S	439552	Center Desk	2078	12/28/20	9:37	12/31/20	10:35	69.8	23.8
S	439753	Center Desk	2081	12/28/20	9:38	12/31/20	10:37	71.1	24.0
S D	439625 439785	Center Desk	2086	12/28/20	9:39	12/31/20	10:40	67.8	23.3
S	439818	Center Desk	2089	12/28/20	9:40	12/31/20	10:42	71.2	24.3

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Date: _____

Time: _____

Page of _____

Received by EMSL (Sign): 

Date: 1/5/21

Time: 1211

Dominic Gebret



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PHONE: 800-220-3675
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EMSL Job #: _____

EMSL ANALYTICAL, INC.

(S) Sample (B) Blank (D) Duplicate	Device Number	Location	Room #	Exposure Period Beginning Date		Exposure Period Ending Date		Temp. °F	Humidity, %
				Date	Time	Date	Time		
S	439589	Center Desk	2045	12/28/20	9:45	12/31/20	10:45	73.1	23.5
S B	439670 439727	Center Desk	2062	12/28/20	9:48	12/31/20	10:50	75.6	24.6
S	439566	Center Desk	2060	12/28/20	9:49	12/31/20	10:51	75.4	24.3
S	439529	Center Desk	2050	12/28/20	9:50	12/31/20	10:52	74.6	24.6
S D	439700 439525	Center Desk	2052	12/28/20	9:51	12/31/20	10:56	75.1	24.1
S	439486	Center Desk	2058	12/28/20	9:52	12/31/20	10:59	74.7	23.3
S	439699	Center Desk	2056	12/28/20	9:53	12/31/20	11:00	75.5	22.9
S	439521	Center Desk	2054	12/28/20	9:55	12/31/20	11:02	75.6	22.6
S	439575	Center Desk	Gym Office 123	12/29/20	9:59	12/31/20	11:08	70.9	23.1
S	439524	Center Desk	Gym Office 124	12/28/20	10:00	12/31/20	11:09	70.7	23.4

Relinquished by (Sign): _____ Date: _____ Time: _____

Received by EMSL (Sign):  Date: 1/5/21 Time: 12:11

Page of _____

Dominic Gehner



EMSL Analytical, Inc.

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

EMSL Order: 382100109
CustomerID: JCBR50
CustomerPO:
ProjectID:

Attn: **Bryan Ezelius**
J.C. Broderick & Associates
1775 Expressway Drive North, Suite 1
Hauppauge, NY 11788

Phone: (631) 584-5492
Fax:
Received: 1/5/2021 12:11 PM
Analysis Date: 1/6/2021
Collected: 12/28/2020

Project: **South Grove Elementary School / 60 Colony Lane**

Test Site: **South Grove Elementary School**
60 Colony Lane
Syosset, NY 11791

Test Report: Radon in Air Test Results

Liquid Scintillation ID	Location	Radon Activity (pCi/L)	Start	Stop	Temperature F	Humidity %	Sample Type
439603 382100109-0001	Center Desk - Room 2005	0.6	12/28/2020 8:50:00 AM	12/31/2020 10:05:00 AM	70	26	Customer
Sample Notes:							
439594 382100109-0002	Center Table - Room 2002	0.4	12/28/2020 8:52:00 AM	12/31/2020 10:06:00 AM	78	27	Customer
Sample Notes:							
439668 382100109-0003	Center Table - Room 2002	-0.1	12/28/2020 8:52:00 AM	12/31/2020 10:06:00 AM	78	27	Blank
Sample Notes:							
439691 382100109-0004	Center Desk - Room 2008	0.4	12/28/2020 8:55:00 AM	12/31/2020 10:06:00 AM	68	24	Customer
Sample Notes:							
439528 382100109-0005	Center Desk - Room 2008	0.6	12/28/2020 8:55:00 AM	12/31/2020 10:06:00 AM	68	24	Duplicate
Sample Notes: Duplicate's Customer Sample:382100109-0004 Duplicate RPD = 40.0%							
439584 382100109-0006	Center Table - Room 2011	0.2	12/28/2020 8:57:00 AM	12/31/2020 10:07:00 AM	80	28	Customer
Sample Notes:							
439661 382100109-0007	Center Desk - Room 2015	0.4	12/28/2020 8:58:00 AM	12/31/2020 10:08:00 AM	70	24	Customer
Sample Notes:							
439701 382100109-0008	Center Table - Room 2018	0.8	12/28/2020 8:59:00 AM	12/31/2020 10:09:00 AM	69	26	Customer
Sample Notes:							
439622 382100109-0009	Center Desk - Room 2023	0.3	12/28/2020 9:00:00 AM	12/31/2020 10:12:00 AM	68	26	Customer
Sample Notes:							
439527 382100109-0010	Center Table - Room 2030	0.4	12/28/2020 9:09:00 AM	12/31/2020 10:13:00 AM	69	24	Customer
Sample Notes:							



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EMSL Order: 382100109

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ProjectID:

Test Report: Radon in Air Test Results

Liquid Scintillation ID	Location	Radon Activity (pCi/L)	Start	Stop	Temperature F	Humidity %	Sample Type
439573 382100109-0011	Center Table - Room 2030	-0.4	12/28/2020 9:09:00 AM	12/31/2020 10:13:00 AM	69	24	Blank
Sample Notes:							
439572 382100109-0012	Center Desk - Room 2027	0.6	12/28/2020 9:10:00 AM	12/31/2020 10:15:00 AM	69	24	Customer
Sample Notes:							
439650 382100109-0013	Center Desk - Room 2032	1	12/28/2020 9:12:00 AM	12/31/2020 10:16:00 AM	68	24	Customer
Sample Notes:							
439678 382100109-0014	Center Desk - Room 2070	0	12/28/2020 9:14:00 AM	12/31/2020 10:18:00 AM	68	24	Customer
Sample Notes:							
439722 382100109-0015	Center Desk - Room 2068B	0.2	12/28/2020 9:20:00 AM	12/31/2020 10:20:00 AM	70	25	Customer
Sample Notes:							
439557 382100109-0016	Center Desk - Room 2068B	0.4	12/28/2020 9:20:00 AM	12/31/2020 10:20:00 AM	70	25	Duplicate
Sample Notes: Duplicate's Customer Sample:382100109-0015					Duplicate RPD = 66.7%		
439726 382100109-0017	Center Table - Room 2041	1	12/28/2020 9:24:00 AM	12/31/2020 10:22:00 AM	75	24	Customer
Sample Notes:							
439689 382100109-0018	Center Desk - Room 2043	0.8	12/28/2020 9:25:00 AM	12/31/2020 10:25:00 AM	75	24	Customer
Sample Notes:							
439597 382100109-0019	Center Table - Room 2044	0.1	12/28/2020 9:26:00 AM	12/31/2020 10:28:00 AM	75	24	Customer
Sample Notes:							
439638 382100109-0020	Center Table - Room 2068	-0.2	12/28/2020 9:28:00 AM	12/31/2020 10:29:00 AM	71	24	Customer
Sample Notes:							
439620 382100109-0021	Center Desk - Room 2096		12/28/2020 9:30:00 AM	12/31/2020	70	23	Customer
Sample Notes: Not Analyzed Radon device not received.							
439574 382100109-0022	Center Desk - Room 2071	0.1	12/28/2020 9:33:00 AM	12/31/2020 10:32:00 AM	72	24	Customer
Sample Notes:							
439736 382100109-0023	Center Desk - Room 2071	-0.5	12/28/2020 9:33:00 AM	12/31/2020 10:32:00 AM	72	24	Blank
Sample Notes:							

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EMSL Order: 382100109

CustomerID: JCBR50

CustomerPO:

ProjectID:

Test Report: Radon in Air Test Results

Liquid Scintillation ID	Location	Radon Activity (pCi/L)	Start	Stop	Temperature F	Humidity %	Sample Type
439596 382100109-0024	Center Desk - Room 2075	0.8	12/28/2020 9:35:00 AM	12/31/2020 10:34:00 AM	70	24	Customer
Sample Notes:							
439552 382100109-0025	Center Desk - Room 2078	0.6	12/28/2020 9:37:00 AM	12/31/2020 10:35:00 AM	70	23	Customer
Sample Notes:							
439753 382100109-0026	Center Desk - Room 2081	0	12/28/2020 9:38:00 AM	12/31/2020 10:37:00 AM	71	24	Customer
Sample Notes:							
439625 382100109-0027	Center Desk - Room 2086	0.5	12/28/2020 9:39:00 AM	12/31/2020 10:40:00 AM	68	23	Customer
Sample Notes:							
439785 382100109-0028	Center Desk - Room 2086	-0.1	12/28/2020 9:39:00 AM	12/31/2020 10:40:00 AM	68	23	Duplicate
Sample Notes: Duplicate's Customer Sample:382100109-0027 Duplicate RPD >67%					Duplicate RPD = 200.0%		
439818 382100109-0029	Center Desk - Room 2089	0.8	12/28/2020 9:40:00 AM	12/31/2020 10:42:00 AM	71	24	Customer
Sample Notes:							
439589 382100109-0030	Center Desk - Room 2045	0.1	12/28/2020 9:45:00 AM	12/31/2020 10:45:00 AM	73	24	Customer
Sample Notes:							
439676 382100109-0031	Center Desk - Room 2062	0.5	12/28/2020 9:48:00 AM	12/31/2020 10:50:00 AM	76	25	Customer
Sample Notes:							
439727 382100109-0032	Center Desk - Room 2062	-0.4	12/28/2020 9:48:00 AM	12/31/2020 10:50:00 AM	76	25	Blank
Sample Notes:							
439566 382100109-0033	Center Desk - Room 2060	0.4	12/28/2020 9:49:00 AM	12/31/2020 10:51:00 AM	75	24	Customer
Sample Notes:							
439529 382100109-0034	Center Desk - Room 2050	0.4	12/28/2020 9:50:00 AM	12/31/2020 10:52:00 AM	75	25	Customer
Sample Notes:							
439700 382100109-0035	Center Desk - Room 2052	0.8	12/28/2020 9:51:00 AM	12/31/2020 10:56:00 AM	75	24	Customer
Sample Notes:							
439525 382100109-0036	Center Desk - Room 2052	0.3	12/28/2020 9:51:00 AM	12/31/2020 10:56:00 AM	75	24	Duplicate
Sample Notes: Duplicate's Customer Sample:382100109-0035 Duplicate RPD >67%					Duplicate RPD = 90.9%		

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cinnaminsonradonlab@emsl.com

EMSL Order: 382100109

CustomerID: JCBR50

CustomerPO:

ProjectID:

Test Report: Radon in Air Test Results

Liquid Scintillation ID	Location	Radon Activity (pCi/L)	Start	Stop	Temperature F	Humidity %	Sample Type
439486 382100109-0037	Center Desk - Room 2058	0.5	12/28/2020 9:52:00 AM	12/31/2020 10:59:00 AM	75	23	Customer
Sample Notes:							
439699 382100109-0038	Center Desk - Room 2056	0.6	12/28/2020 9:53:00 AM	12/31/2020 11:00:00 AM	76	23	Customer
Sample Notes:							
439521 382100109-0039	Center Desk - Room 2054	0.4	12/28/2020 9:55:00 AM	12/31/2020 11:02:00 AM	76	23	Customer
Sample Notes:							
439575 382100109-0040	Center Desk - Gym Office 123	2	12/28/2020 9:59:00 AM	12/31/2020 11:08:00 AM	71	23	Customer
Sample Notes:							
439524 382100109-0041	Center Desk - Gym Office 124	0.6	12/28/2020 10:00:00 AM	12/31/2020 11:09:00 AM	71	23	Customer
Sample Notes:							

Report Notes

The United States Environmental Protection Agency (EPA) has established a radon action level of 4.0pCi/L. EPA recommends mitigation of a structure if the confirmed radon level is equal to or greater than 4.0pCi/L. The radon tests were performed using liquid scintillation radon detectors and counted on a liquid scintillation counter following EPA Method # 402-R-92-004 testing protocol for Radon in Air testing. EPA recommends retesting every two years. Please contact EMSL Analytical, Inc. or your State Health Department for further information. All procedures used for generating this report are in complete accordance with the current EPA protocols for the analysis of Radon in Air.

Analyst(s)

Dominic Gehret (40)

Dominic Gehret, Radiochemistry Laboratory Manager, 10872

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

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

Initial report from 01/07/2021 13:12:33

Please visit www.radontestinglab.com