

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

March 28, 2022

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

**Re: Indoor Radon Sampling / Methane Monitoring
South Grove Annex
60 Colony Lane
Syosset, New York 11791
Sampling Dates: February 22 - 25, 2022**

JCB#: 22-51127

Dear Mr. Fasulo:

J.C. Broderick and Associates, Inc. (JCB) was retained to perform indoor radon sampling and methane monitoring within the above referenced school building. The existing active sub-slab depressurization system (SSDS) for radon mitigation at the South Grove Elementary School was turned off 48-hours prior to the start and throughout the duration of the sampling. The purpose of the SSDS shut down was to provide the first of two sampling events to represent site conditions without an active mitigation system.

The radon 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 monitoring for methane gas was also performed utilizing a Landtec GEM 5000 methane detecting real-time monitor. The monitor detected the percentage of methane along with carbon dioxide and oxygen.

The results of the sampling performed revealed the following:

- All results were reported below the EPA action level.
- No methane was recorded by the detector.

March 28, 2022
Mr. Severino Fasulo of Syosset CSD
Indoor Radon Sampling / Methane Monitoring
South Grove Annex
60 Colony Ln., Syosset, NY 11791
JCB#: 22-51127

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,
J. C. Broderick & Associates, Inc.

A handwritten signature in black ink, appearing to read "Steven Muller", written in a cursive style.

Steven Muller, P.G.
Director, Subsurface Division

Fedex: 7903
1393

JC BR50
2 Day



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

382201545

EMSL Job #: _____

2022 FEB 29 A 11:43

Company Information: EMSL Acct #: _____

Company Name: JC Broderick & Associates

Contact: Bryan Ezelius

Address: 1775 Expressway Dr North

City: Hauppauge

State: NY Zip: 11788

Phone: 631-584-5492 Fax: _____

Email: Bezelius@JCBroderick.com

Technician Certification #: _____

Tech Name: Jarett Boniface

Tech Signature: *[Signature]*

Project/Site Information: *Required

Project Name: South Grove Annex

Project # / PO: 21-49341

*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	488661	center Desk	2013	2/22/22	9:28	2/25/22	9:40	75.9	30.1
B	488704	center Desk	2015	2/22/22	9:29	2/25/22	9:41	74.7	32.2
S	488643	center Desk	2016	2/22/22	9:31	2/25/22	9:43	74.3	33.8
D	488673	center Desk	2018	2/22/22	9:32	2/25/22	9:44	74.4	33.1
S	488565	center Desk	2020	2/22/22	9:34	2/25/22	9:46	74.1	32.7
S	488721	center Desk	2024	2/22/22	9:35	2/25/22	9:47	74.4	34.3
S	488700	center Table	2022	2/22/22	9:37	2/25/22	9:49	75.5	31.4
S	488647	center Desk							

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

Received by EMSL (Sign): _____ Date: _____ Time: _____

Page of _____



382201545

RECEIVED
EMSL
CINNAMINSON, NJ.
**CHAIN OF CUSTODY
RADON LABORATORY SERVICES**
(COMMERCIAL USE)

EMSL Job #: 2022 FEB 29 A 11:43

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

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	488615	Center Table	2022A	2/22/22	9:38	2/25/22	9:41	76.2	27.2
S	488720	Center Desk	Rm 9	2/22/22	9:40	2/25/22	9:48	69.8	27.4
S	488663	Center Desk	Rm 8	2/22/22	9:41	2/25/22	9:48	70.5	30.6
S B	488604 488740	Center Desk	2025	2/22/22	9:50	2/25/22	9:54	69.2	38.4
S	488682	Center Desk	2027	2/22/22	9:51	2/25/22	9:56	72.5	35.9
S D	488618 488718	Center Desk	2029	2/22/22	9:53	2/25/22	9:57	75.7	31.9
S	488741	Center Desk	2006A	2/22/22	9:55	2/25/22	9:59	75.0	33.2
S	488634	Center Desk	2009	2/22/22	10:00	2/25/22	10:02	75.3	32.5

Relinquished by (Sign): _____ Date: _____ Time: _____ Page of _____
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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: 382201545
 CustomerID: JCBR50
 CustomerPO: 21-49341
 ProjectID:

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

Phone: (631) 584-5492
 Fax:
 Received: 3/1/2022 11:43 AM
 Analysis Date: 3/3/2022
 Collected: 2/22/2022

Project: **South Grove Annex / 60 Colony Ln / 21-49341**

Test Site: **South Grove Annex**
60 Colony Ln
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
488661 382201545-0001	Center Desk 2013	-0.1	2/22/2022 9:28:00 AM	2/25/2022 9:40:00 AM	75	30	Customer
Sample Notes:							
488704 382201545-0002	Center Desk 2013	-0.2	2/22/2022 9:28:00 AM	2/25/2022 9:40:00 AM	75	30	Blank
Sample Notes:							
488643 382201545-0003	Center Desk 2015	0	2/22/2022 9:29:00 AM	2/25/2022 9:41:00 AM	74	32	Customer
Sample Notes:							
488628 382201545-0004	Center Desk 2016	0.1	2/22/2022 9:31:00 AM	2/25/2022 9:43:00 AM	74	33	Customer
Sample Notes:							
488673 382201545-0005	Center Desk 2016	-0.6	2/22/2022 9:31:00 AM	2/25/2022 9:43:00 AM	74	33	Duplicate
Sample Notes: Duplicate's Customer Sample:382201545-0004 Duplicate RPD >67% Duplicate RPD = 200.0%							
488565 382201545-0006	Center Desk 2018	-0.5	2/22/2022 9:32:00 AM	2/25/2022 9:44:00 AM	74	33	Customer
Sample Notes:							
488721 382201545-0007	Center Desk 2020	0	2/22/2022 9:34:00 AM	2/25/2022 9:46:00 AM	74	32	Customer
Sample Notes:							
488700 382201545-0008	Center Desk 2024	-0.2	2/22/2022 9:35:00 AM	2/25/2022 9:47:00 AM	74	34	Customer
Sample Notes:							
488647 382201545-0009	Center Desk 2022	-0.2	2/22/2022 9:37:00 AM	2/25/2022 9:49:00 AM	75	31	Customer
Sample Notes:							
488615 382201545-0010	Center Desk 2022A	-0.1	2/22/2022 9:38:00 AM	2/25/2022 9:41:00 AM	76	27	Customer
Sample Notes:							



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cinnaminsonradonlab@emsl.com

EMSL Order: 382201545

CustomerID: JCBR50

CustomerPO: 21-49341

ProjectID:

Test Report: Radon in Air Test Results

Liquid Scintillation ID	Location	Radon Activity (pCi/L)	Start	Stop	Temperature F	Humidity %	Sample Type
488720 382201545-0011	Center Desk Rm 9	0.1	2/22/2022 9:40:00 AM	2/25/2022 9:46:00 AM	69	27	Customer
Sample Notes:							
488663 382201545-0012	Center Desk Rm 8	0.2	2/22/2022 9:41:00 AM	2/25/2022 9:48:00 AM	70	30	Customer
Sample Notes:							
488604 382201545-0013	Center Desk 2025	-0.3	2/22/2022 9:50:00 AM	2/25/2022 9:54:00 AM	69	38	Customer
Sample Notes:							
488740 382201545-0014	Center Desk 2025	-0.2	2/22/2022 9:50:00 AM	2/25/2022 9:54:00 AM	72	38	Blank
Sample Notes:							
488682 382201545-0015	Center Desk 2027	0	2/22/2022 9:51:00 AM	2/25/2022 9:56:00 AM	72	35	Customer
Sample Notes:							
488618 382201545-0016	Center Desk 2029	-0.2	2/22/2022 9:53:00 AM	2/25/2022 9:57:00 AM	75	31	Customer
Sample Notes:							
488718 382201545-0017	Center Desk 2029	-0.2	2/22/2022 9:53:00 AM	2/25/2022 9:57:00 AM	75	31	Duplicate
Sample Notes: Duplicate's Customer Sample:382201545-0016							
488741 382201545-0018	Center Desk 2006A	-0.2	2/22/2022 9:55:00 AM	2/25/2022 9:59:00 AM	75	33	Customer
Sample Notes:							
488634 382201545-0019	Center Desk 2009	-0.1	2/22/2022 10:00:00 AM	2/25/2022 10:02:00 AM	75	32	Customer
Sample Notes:							

Duplicate RPD = 0%

Report Notes



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EMSL Order:	382201545
CustomerID:	JCBR50
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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
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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)

Racquel Hafiz (19)

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 03/03/2022 13:32:49