

J.C. Broderick & Associates, Inc.

Environmental / Construction Consulting & Testing



March 10, 2023

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: March 3 - 6, 2023**

JCB#: 22-52916

Dear Mr. Fasulo:

J.C. Broderick and Associates, Inc. (JCB) was retained to perform indoor radon sampling within the above referenced school building. This short-term sampling event was targeted to two (2) locations within the gym addition as a result of the most recent February 2023 sampling results. To perform the sampling under normal building conditions, the existing active sub-slab depressurization system (SSDS) for radon mitigation was operational throughout the duration of the sampling. It should also be noted that air purifiers containing activated carbon filtration was also operating in each space during the sampling period.

The radon sampling was performed by experienced JCB representatives following the AARST Consortium on National Radon Standards - *Protocol for Conducting Measurements of Radon and Radon Decay Products in Schools and Large Buildings*, dated 2015 guidance document. Sampling was performed utilizing Short-Term test devices which were placed in frequently occupied rooms in contact with the ground.

Radon Laboratory Analytical Summary

The short-term Radon in Air sampling was performed utilizing laboratory supplied test kits, assigned individual identification numbers, and were secured. Chain of Custody documents were prepared, and the samples were then delivered to an independent New York State Department of Health (NYSDOH) Environmental Laboratory Approval Program (ELAP) certified laboratory for analysis of Radon in Air.

EMSL Analytical Inc. (EMSL) of Cinnaminson, New Jersey provided laboratory analytical services. Copies of EMSL's NYSDOH certifications are available upon request.

The laboratory analytical results for the Radon in Air samples were reviewed and compared to the United States Environmental Protection Agency (EPA) recommended action level of 4.0 pCi/L as reported in the AARST guidance document.

The table on the following page summarizes the Radon Analytical Results for the last several sampling events:

March 10, 2023
 Mr. Severino Fasulo of Syosset CSD
 Indoor Radon Sampling
 South Grove Elementary School
 60 Colony Ln., Syosset, NY 11791
 JCB#: 22-52916

Table No. 1: Summary of Radon Samples Analysis Results						
AHERA Room Identification	Radon Activity pCi/L – 3/6/23	Radon Activity pCi/L – 2/15/23	Radon Activity pCi/L – 2/8/23	Radon Activity pCi/L – 1/12/23	Radon Activity pCi/L – 4/25/22	Radon Activity pCi/L – 2/25/22
Gym Vestibule		0.6	0.8			
Gym Vestibule - Duplicate		0.5	0.9			
Gym (stage)		1.3	1.7			
Gym (stage) - Duplicate		1.3	1.4			
Room 123	1.3	2.1	2.6	4.0	0.8	2.3
Room 123 - Duplicate	1.4	0.6	2.6			
Room 124	0.8	1.8	1.6	3.8	0.9	2.0
Room 124 - Duplicate	0.7	1.5	1.2			

The laboratory analytical results from the Radon in Air samples collected on March 6, 2023, indicated a concentration of Radon below the guidance value established by the EPA of equal to or greater than 4.0 pCi/L in all samples tested.

Please see the attached laboratory reports and to include 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.

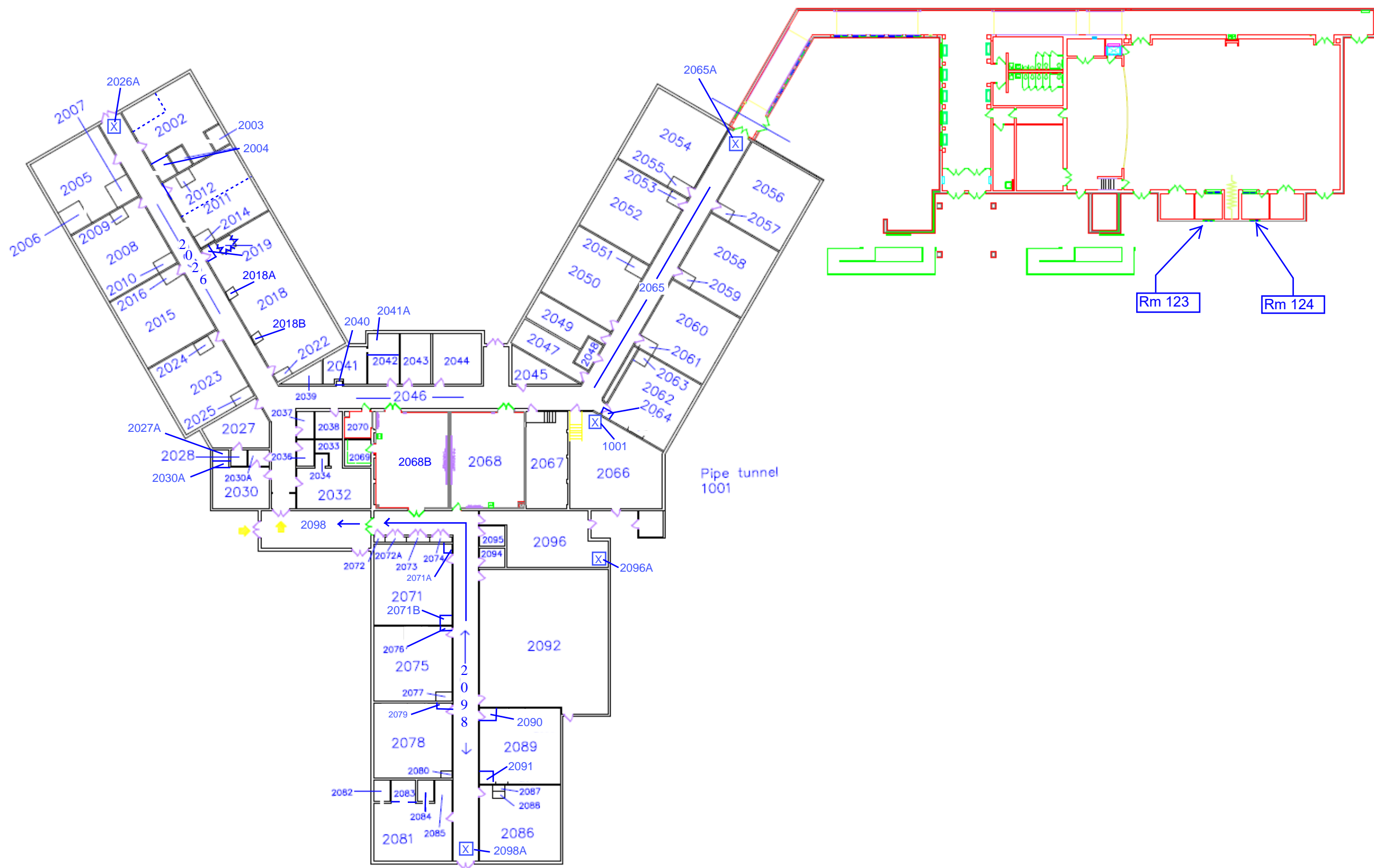
Sincerely,
J. C. Broderick & Associates, Inc.



Steven Muller, P.G.
 Director, Subsurface Division

Appendix A

Figures



J.C. Broderick & Associates
 Environmental Consulting & Testing
 1775 Expressway Dr. North
 Hauppauge, New York 11788
 Phone: 631.584.5492 Fax: 631.584.5913

JCB #: 12-22347
SYOSSET CENTRAL SCHOOL DISTRICT
 South Grove Elementary School
 60 Colony Lane, Syosset, NY 11791

Appendix B

Laboratory Analysis Reports



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: 382301428
CustomerID: JCBR50
CustomerPO: 22-52916
ProjectID:

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

Phone: (631) 584-5492
Fax:
Received: 3/8/2023 02:01 PM
Analysis Date: 3/9/2023
Collected: 3/3/2023

Project: **South Grove EM / 22-52916**

Test **South Grove EM / 22-52916**
Site: **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
521383 382301428-0001	File Cabinet #123	1.3	3/3/2023 7:15:00 AM	3/6/2023 5:33:00 PM	66	34	Customer
Sample Notes:							
524386 382301428-0002	File Cabinet #123	1.4	3/3/2023 7:15:00 AM	3/6/2023 5:33:00 PM	66	34	Duplicate
Sample Notes: Duplicate's Customer Sample:382301428-0001						Duplicate RPD = 7.4%	
524341 382301428-0003	File Cabinet #124	0.8	3/3/2023 7:18:00 AM	3/6/2023 5:34:00 PM	67	33	Customer
Sample Notes:							
524444 382301428-0004	File Cabinet #124	0.7	3/3/2023 7:18:00 AM	3/6/2023 5:34:00 PM	67	33	Duplicate
Sample Notes: Duplicate's Customer Sample:382301428-0003						Duplicate RPD = 13.3%	

Report Notes



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:	382301428
CustomerID:	JCBR50
CustomerPO:	22-52916
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)

Jeanel Zoll (4)

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 03/10/2023 14:06:57



EMSL ANALYTICAL, INC.

RECEIVED
EMSL
CINNAMINSON, NJ
**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 #: 382301428
23 MAR - 8 PM 2:02

Company Information:

EMSL Acct #: JCB R50

Company Name: JCBRODOWICZ & ASSOCIATES, INC

Contact: STEVEN MULLER

Address: 1775 EXPRESSWAY DR. N

City: HAUPPAUGE

State: NEW YORK Zip: 11788

Phone: 631-584-5492 Fax: 631-584-3395

Email: smuller@jcbrodowicz.com

Technician Certification #:

Tech Name: Steven Muller

Tech Signature: *[Signature]*

Project/Site Information: *Required

Project Name: SOUTH GROVE EM

Project #/PO: 22-52916

*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	521383	FILE CABINET ROOM	123	3/3/23	0715	3/6/23	1733	65.8	34.2
D	524386								
S	524341	FILE CABINET	124	3/3/23	0718	3/6/23	1734	66.5	33.2
D	524444								

Relinquished by (Sign): *[Signature]* Date: 3/7/23 Time: 12:00

Received by EMSL (Sign): *[Signature]* Date: 3/8/23 Time: 14:01 PM (Page of 1)

Page 1 of 1 2-day TAT m3