

J.C. Broderick & Associates, Inc.

Environmental / Construction Consulting & Testing



March 6, 2024

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

Re: Perform Professional Consulting and Environmental Sampling and Testing for Radon in Air at:

**Site: South Grove Elementary School
60 Colony Lane
Syosset, New York 11791
Site Visits: February 5 & 8, 2024**

JCB#: 23-55371

Dear Mr. Fasulo:

J.C. Broderick and Associates, Inc. (JCB) was retained by the Syosset Central School District (SCSD) to perform environmental sampling for indoor radon gas within the above referenced school building. The radon sampling was performed by experienced JCB representatives on the above referenced dates following the American National Standards Institute (ANSI)/American Association of Radon Scientists and Technologists (AARST) *Protocol for Conducting Measurements of Radon and Radon Decay Products in Multifamily, School, Commercial and Mixed-Use Buildings* MA-MFLB-2023, effective date December 1, 2023, guidance document. The site visits consisted of the following:

- Collection of radon in air samples from 34 locations within occupied rooms in contact with the ground at the above referenced school building.
- Submission of designated samples to an independent New York State Department of Health (NYSDOH) Environmental Laboratory Approval Program (ELAP) certified laboratory for radon in air analysis.
- Review and compare the laboratory results to the ANSI/AARST *Protocol for Conducting Measurements of Radon and Radon Decay Products in Multifamily, School, Commercial and Mixed-Use Buildings* MA-MFLB-2023, effective date December 1, 2023.

Summary of Sample Collection, Field Screening and Sample Submission

The following section summarizes the environmental sampling performed. Please refer to attachments located at the end of this report for additional details.

- On February 5, 2024, a total of 43 short-term radon test kits were deployed at 34 strategic occupied spaces located throughout the above referenced school building. The test kits remained within the given space for a period of three (3) days. A select number of samples served as a duplicate or remained closed as a field blank for QA/QC compliance.

March 6, 2024

Mr. Severino Fasulo of Syosset CSD

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JCB#: 23-55371

- The area around each test kit location was field screened for the presence of total volatile organic compounds utilizing a MiniRAE 3000 Portable photo-ionization detector (PID). Technical data pertaining to the MiniRAE 3000 Portable PID is available upon request.
- On February 8, 2024, a total of 43 short-term radon test kits were retrieved, sealed, and assigned unique identification numbers, logged into a chain of custody document, and delivered to an independent New York State Department of Health (NYSDOH) Environmental Laboratory Approval Program (ELAP) accredited radon laboratory for analysis. Prior to sample retrieval, temperature and humidity were recorded utilizing a OXV Thermo-Hygrometer meter.
- During the same monitoring period continuous radon in air testing was performed in Room 123 and Room 124 utilizing a Radon Eye Pro, a professional continuous radon monitor. Please refer to Figure 2 located in Attachment #2 of this report for additional details. Technical data pertaining to the Radon Eye Pro is available upon request.

Quality Assurance and Quality Control (QA/QC) Procedures

To ensure that measurement results are reliable, JCB performed duplicate sampling at six (6) sample locations. JCB representatives maintained a Radon sampling chain of custody used to track samples from sampling point to analysis which summarized the following:

- Sample identification;
- Test Kit ID number;
- Device ID number;
- Sampling beginning date and time;
- Sampling ending date and time;
- Temperature, °F;
- Humidity, %.

Summary of Laboratory Analysis

Please refer to the Tables located in Attachment #1 for a summary of submitted samples and laboratory analysis results.

- The laboratory analytical results for the radon in air samples were reviewed and compared to the ANSI/AARST *Protocol for Conducting Measurements of Radon and Radon Decay Products in Multifamily, School, Commercial and Mixed-Use Buildings* MA-MFLB-2023, effective date December 1, 2023, which establishes a radon in air action concentration level of 4.0 pCi/L.
 - The continuous monitoring data collected from the Radon Eye Pro over the 3-day period is depicted on Figure 2 in Attachment 2. The average level of radon recorded during the occupied period of each day was 2.0 pCi/L in Room 123 and 1.7 pCi/L in Room 124; however, these are not certified laboratory results and should be used for screening purposes only.
 - The laboratory analysis results from the radon in air samples submitted did **not** reveal any elevated concentrations of radon exceeding 4.0 pCi/L, the referenced action level. The highest recorded radon level was located in spaces Room 123 and Room 124 at a concentration of 1.1 pCi/L each, well below the 4.0 pCi/L action level.

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

Conclusions and Recommendations

Based upon the results of the laboratory analysis, the USEPA decision matrix does not recommend any additional investigation pertaining to radon in air associated with the above referenced school building.

The ANSI/AARST guidance document recommends that responsible care requires repeating initial testing procedures for all building(s) at least every 5 years and in conjunction with any sale of a building.

Radon testing should also be conducted when any of the following circumstances occur:

- a new addition is constructed or alterations for building reconfiguration or rehabilitation occur;
- a ground contact area not previously tested is occupied, or a building is newly occupied;
- heating or cooling systems are significantly altered, resulting in changes to air pressures or pressure relationships;
- ventilation is significantly altered by extensive weatherization, changes to mechanical systems or comparable procedures;
- significant openings to soil occur due to:
 - groundwater or slab surface water control systems that are altered or added (e.g., sumps, perimeter drain tile, shower/tub retrofits, etc.) or,
 - natural settlement causing major cracks to develop;
- earthquakes or construction blasting, fracking or formation of sink holes nearby; or
- a mitigation system is altered, modified, or repaired.

Should testing indicate concentrations that meet or exceed the action level, conduct evaluations, corrections and further testing until radon concentrations have been mitigated to below the action level.

However, to monitor for possible changes in indoor quality, JCB does recommend that the current annual testing schedule for radon in air within the school building continue.

Please refer to the attached laboratory reports to be included in the District's Radon Measurement Plan.

Attachment #1 Tables

Attachment #2 Figures

Attachment #3 Field Photograph Logs

Attachment #4 Laboratory Analysis Reports

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

Attachment #1 Tables

Table 1. Summary of Radon Samples Submitted for Laboratory Analysis

Sample ID#	AHERA Space ID	Sample Start Date	Sample End Date	Description of Sample	Analysis Method
524398	2002	2/5/2024	2/8/2024	Bookshelf	Radon in Air
524550 (Blank)		2/5/2024	2/8/2024		Radon in Air
524509	2005	2/5/2024	2/8/2024	Bookshelf	Radon in Air
521636	2008	2/5/2024	2/8/2024	Closet Shelf	Radon in Air
524429 (Dup)		2/5/2024	2/8/2024		Radon in Air
521958	2011	2/5/2024	2/8/2024	Electrical Panel	Radon in Air
524527	2015	2/5/2024	2/8/2024	Closet Shelf	Radon in Air
521387	2018	2/5/2024	2/8/2024	Cabinet	Radon in Air
524498	2023	2/5/2024	2/8/2024	Closet Shelf	Radon in Air
524523	2041	2/5/2024	2/8/2024	File Cabinet	Radon in Air
524474	2027	2/5/2024	2/8/2024	File Cabinet	Radon in Air
524606	2030	2/5/2024	2/8/2024	Shelf	Radon in Air
524497	2032	2/5/2024	2/8/2024	AED	Radon in Air
524524	2071	2/5/2024	2/8/2024	Bookshelf	Radon in Air
524405 (Blank)		2/5/2024	2/8/2024		Radon in Air
524447	2075	2/5/2024	2/8/2024	Bookshelf	Radon in Air
524402	2078	2/5/2024	2/8/2024	Bookshelf	Radon in Air
524576	2081	2/5/2024	2/8/2024	Bookshelf	Radon in Air
524397	2086	2/5/2024	2/8/2024	File Cabinet	Radon in Air
524539 (Dup)		2/5/2024	2/8/2024		Radon in Air
524546	2089	2/5/2024	2/8/2024	Shelf	Radon in Air
524673	2096	2/5/2024	2/8/2024	Cabinet	Radon in Air
524881	2068	2/5/2024	2/8/2024	Cabinet	Radon in Air
524573	2068B	2/5/2024	2/8/2024	Cabinet	Radon in Air
522587 (Dup)		2/5/2024	2/8/2024		Radon in Air
524638	2043	2/5/2024	2/8/2024	Bookshelf	Radon in Air
524441	2044	2/5/2024	2/8/2024	Vending Machine	Radon in Air
523474	2045	2/5/2024	2/8/2024	Electrical Panel	Radon in Air
524449	2062	2/5/2024	2/8/2024	File Cabinet	Radon in Air
524499 (Blank)		2/5/2024	2/8/2024		Radon in Air
524457	2060	2/5/2024	2/8/2024	Shelf	Radon in Air
524605	2058	2/5/2024	2/8/2024	Shelf	Radon in Air
524531	2056	2/5/2024	2/8/2024	Shelf	Radon in Air
521318	2054	2/5/2024	2/8/2024	Bookshelf	Radon in Air
524532	2052	2/5/2024	2/8/2024	Bookshelf	Radon in Air
524477 (Dup)		2/5/2024	2/8/2024		Radon in Air
524541	2050	2/5/2024	2/8/2024	Bookshelf	Radon in Air
524483	*	2/5/2024	2/8/2024	Cabinet - Vestibule	Radon in Air
524505	*	2/5/2024	2/8/2024	Stage	Radon in Air
524513	Room 123	2/5/2024	2/8/2024	File Cabinet	Radon in Air
524456 (Dup)		2/5/2024	2/8/2024		Radon in Air
524548	Room 124	2/5/2024	2/8/2024	File Cabinet	Radon in Air
524511 (Dup)		2/5/2024	2/8/2024		Radon in Air

Notes:

B = Blank

Dup = Duplicate

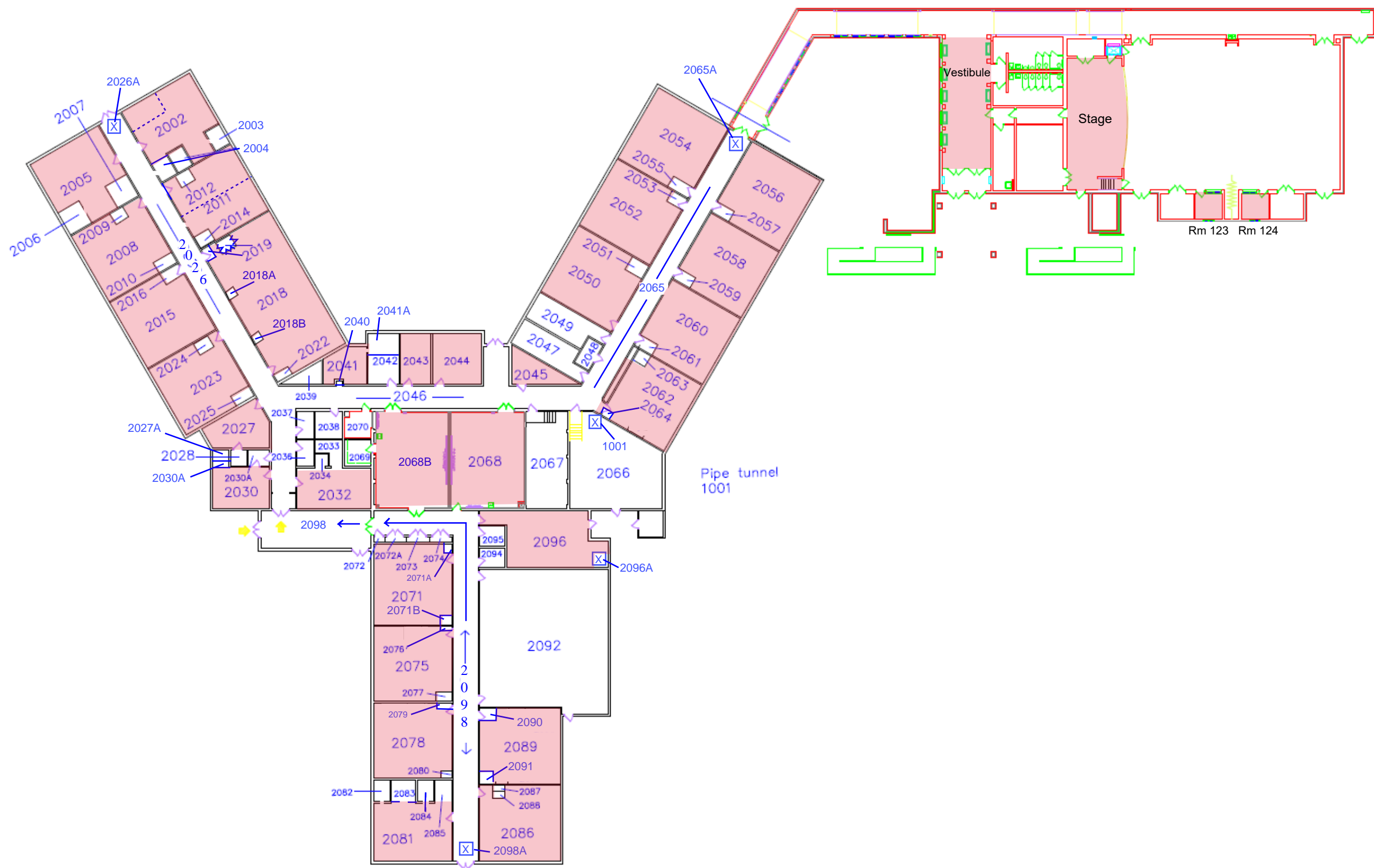
* = No Functional Space ID

Table 2. Summary of Radon Laboratory Results				
AHERA Space ID	2/5/24-2/8/24 (pCi/L)	1/9/23 - 1/12/23 (pCi/L)	2/6/23 - 2/8/23 (pCi/L)	3/3/23 - 3/6/23 (pCi/L)
2002	0.60	1.50	-	-
2002 (Blank)	0.10	0.40	-	-
2005	0.70	1.90	-	-
2008	0.40	1.90	-	-
2008 (Dup)	0.50	1.90	-	-
2011	0.10	1.30	-	-
2015	0.30	1.30	-	-
2018	0.30	2.20	-	-
2023	0.30	1.40	-	-
2041	0.30	2.00	-	-
2027	0.40	1.70	-	-
2030	0.50	1.50	-	-
2032	0.50	1.60	-	-
2071	0.20	1.60	-	-
2071 (Blank)	0.30	0.10	-	-
2075	0.50	2.10	-	-
2078	0.40	1.70	-	-
2081	0.80	1.80	-	-
2086	0.70	1.30	-	-
2086 (Dup)	0.40	1.50	-	-
2089	0.50	1.70	-	-
2096	0.40	1.80	-	-
2068	0.30	1.20	-	-
2068B	0.10	1.00	-	-
2068B (Dup)	0.30	1.40	-	-
2043	0.30	1.60	-	-
2044	0.70	1.60	-	-
2045	0.40	0.80	-	-
2062	0.40	1.90	-	-
2062 (Blank)	-0.20	0.20	-	-
2060	0.40	2.10	-	-
2058	0.30	2.40	-	-
2056	0.50	1.60	-	-
2054	0.40	2.20	-	-
2052	0.60	2.00	-	-
2052 (Dup)	0.00	1.90	-	-
2050	0.40	1.60	-	-
Cabinet - Vestibule	0.70	-	0.8	-
Cabinet - Vestibule (Dup)	-	-	0.9	-
Stage	0.80	-	1.7	-
Stage (Dup)	-	-	1.4	-
Room 123	1.10	4.00	2.6	1.3
Room 123 (Dup)	1.10	-	2.6	1.4
Room 124	1.10	3.80	1.6	0.8
Room 124 (Dup)	0.80	-	1.2	0.7

Notes:
B = Blank
Dup = Duplicate
- = Not Analyzed

Attachment #2

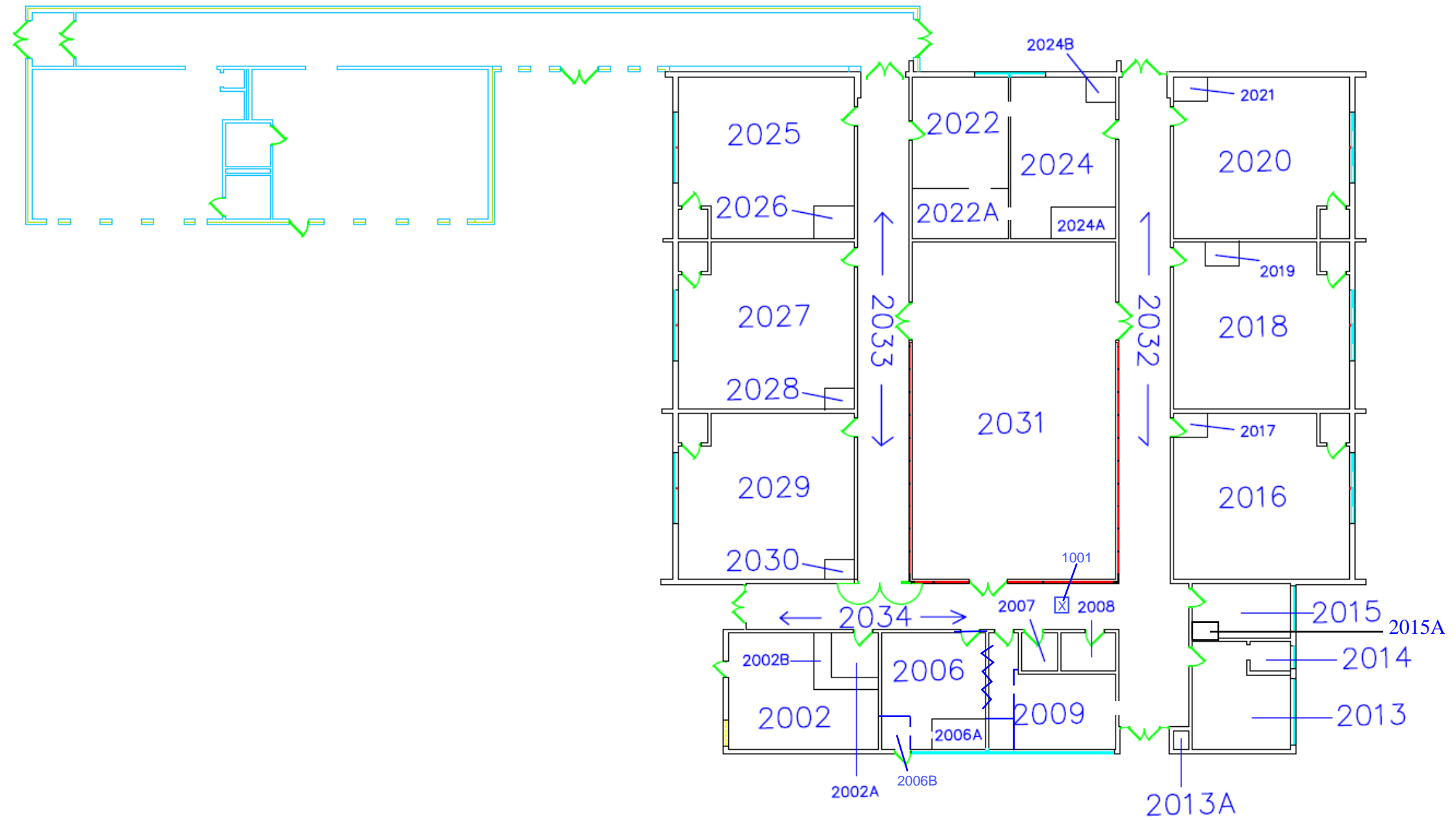
Figures



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

NEW



ANNEX

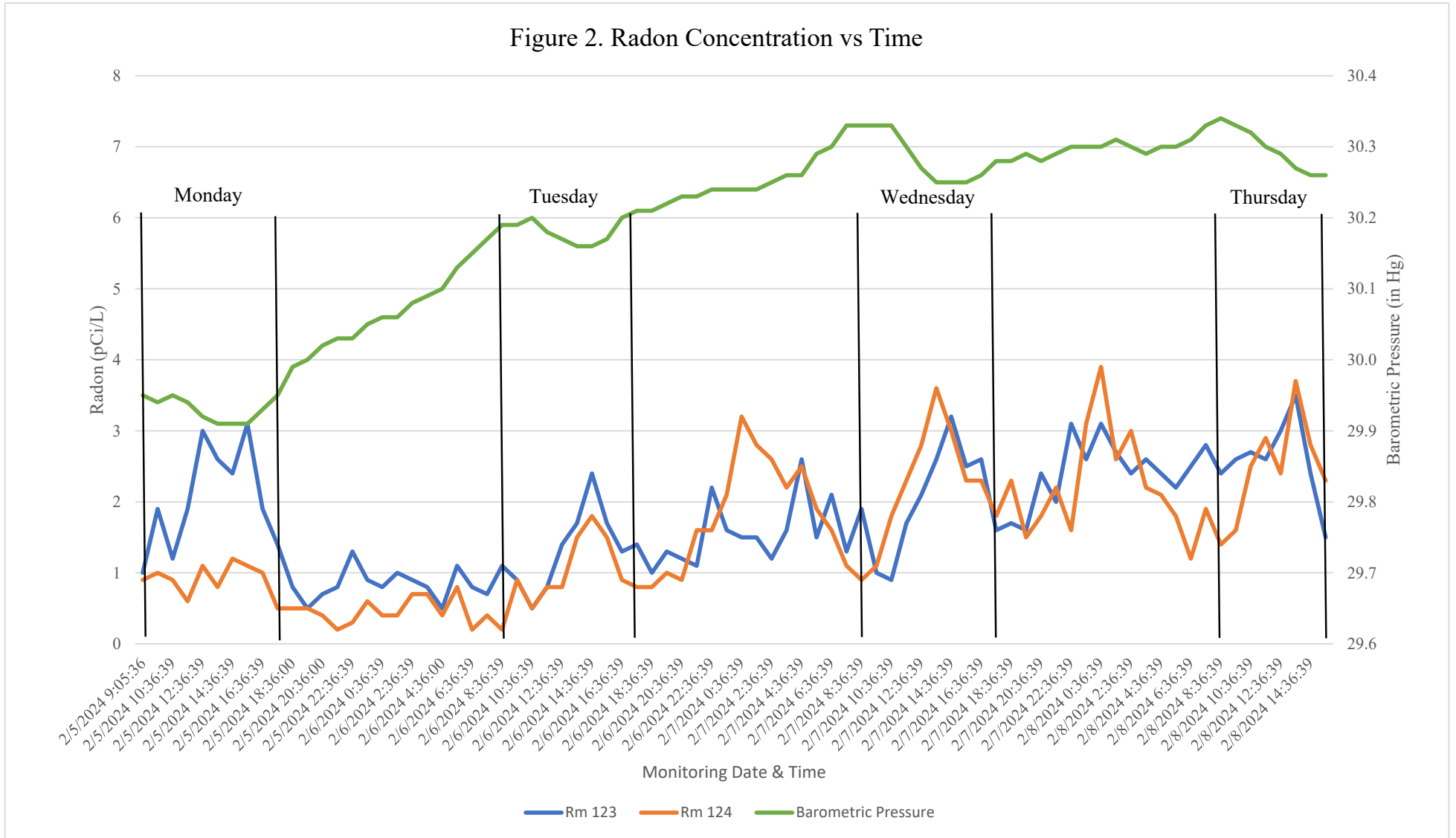
Pipe tunnel 1001



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

Figure 2. Radon Concentration vs Time



Attachment #3
Field Photograph Logs

Typical Radon Sample



Field Photograph Log

Indoor Radon Investigation at:

South Grove Elementary School
60 Colony Lane
Syosset, New York 11791

Photo No. 01

JCB#: 23-55371

Typical Radon Sample with Blank



Field Photograph Log

Indoor Radon Investigation at:

**South Grove Elementary School
60 Colony Lane
Syosset, New York 11791**

Photo No. 02

JCB#: 23-55371

Typical Radon Sample with Duplicate



Field Photograph Log

Indoor Radon Investigation at:

**South Grove Elementary School
60 Colony Lane
Syosset, New York 11791**

Photo No. 03

JCB#: 23-55371

Attachment #4
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: 382400767
CustomerID: JCBR50
CustomerPO: 23-55371
ProjectID:

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

Phone: (631) 584-5492
Fax:
Received: 2/13/2024 12:10 PM
Analysis Date: 2/15/2024
Collected: 2/5/2024

Project: **South Grove ES / 23-55371**

Test **South Grove ES**
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
524398 382400767-0001	Bookshelf Room 2002	0.6	2/5/2024 7:02:00 AM	2/8/2024 3:53:00 PM	76	17	Customer
Sample Notes:							
524550 382400767-0002	Bookshelf Room 2002	0.1	2/5/2024 7:02:00 AM	2/8/2024 3:53:00 PM	76	17	Blank
Sample Notes:							
524509 382400767-0003	Bookshelf Room 2005	0.7	2/5/2024 7:02:00 AM	2/8/2024 3:51:00 PM	75	17	Customer
Sample Notes:							
521636 382400767-0004	Closet Shelf Room 2008	0.4	2/5/2024 7:04:00 AM	2/8/2024 3:54:00 PM	76	20	Customer
Sample Notes:							
524429 382400767-0005	Closet Shelf Room 2008	0.5	2/5/2024 7:04:00 AM	2/8/2024 3:54:00 PM	76	20	Duplicate
Sample Notes: Duplicate's Customer Sample:382400767-0004 Duplicate RPD = 22.2%							
521958 382400767-0006	Electrical Panel Room 2011	0.1	2/5/2024 7:04:00 AM	2/8/2024 3:54:00 PM	78	13	Customer
Sample Notes:							
524527 382400767-0007	Closet shelf - Room 2015	0.3	2/5/2024 7:05:00 AM	2/8/2024 3:56:00 PM	77	15	Customer
Sample Notes:							
521387 382400767-0008	Cabinet Room 2018	0.3	2/5/2024 7:05:00 AM	2/8/2024 3:58:00 PM	78	14	Customer
Sample Notes:							
524498 382400767-0009	Closet Shelf Room 2023	0.3	2/5/2024 7:06:00 AM	2/8/2024 3:58:00 PM	78	13	Customer
Sample Notes:							
524523 382400767-0010	File Cabinet Room 2041	0.3	2/5/2024 7:06:00 AM	2/8/2024 3:59:00 PM	78	13	Customer
Sample 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:	382400767
CustomerID:	JCBR50
CustomerPO:	23-55371
ProjectID:	

Test Report: Radon in Air Test Results

Liquid Scintillation ID	Location	Radon Activity (pCi/L)	Start	Stop	Temperature F	Humidity %	Sample Type
524474 382400767-0011	File Cabinet Room 2027	0.4	2/5/2024 7:08:00 AM	2/8/2024 4:00:00 PM	76	19	Customer
Sample Notes:							
524606 382400767-0012	Shelf Room 2030	0.5	2/5/2024 7:08:00 AM	2/8/2024 4:02:00 PM	74	19	Customer
Sample Notes:							
524497 382400767-0013	AED Room 2032	0.5	2/5/2024 7:09:00 AM	2/8/2024 4:03:00 PM	74	19	Customer
Sample Notes:							
524524 382400767-0014	Bookshelf Room 2071	0.2	2/5/2024 7:11:00 AM	2/8/2024 4:04:00 PM	73	15	Customer
Sample Notes:							
524405 382400767-0015	Bookshelf Room 2071	0.3	2/5/2024 7:11:00 AM	2/8/2024 4:04:00 PM	73	15	Blank
Sample Notes:							
524447 382400767-0016	Bookshelf Room 2075	0.5	2/5/2024 7:11:00 AM	2/8/2024 4:05:00 PM	74	15	Customer
Sample Notes:							
524402 382400767-0017	Bookshelf Room 2078	0.4	2/5/2024 7:12:00 AM	2/8/2024 4:07:00 PM	74	14	Customer
Sample Notes:							
524576 382400767-0018	Bookshelf Room 2081	0.8	2/5/2024 7:12:00 AM	2/8/2024 4:08:00 PM	74	14	Customer
Sample Notes:							
524397 382400767-0019	File Cabinet Room 2086	0.7	2/5/2024 7:14:00 AM	2/8/2024 4:09:00 PM	75	15	Customer
Sample Notes:							
524539 382400767-0020	File Cabinet Room 2086	0.4	2/5/2024 7:14:00 AM	2/8/2024 4:09:00 PM	75	15	Duplicate
Sample Notes: Duplicate's Customer Sample:382400767-0019						Duplicate RPD = 54.5%	
524546 382400767-0021	Shelf Room 2089	0.5	2/5/2024 7:15:00 AM	2/8/2024 4:10:00 PM	75	15	Customer
Sample Notes:							
524673 382400767-0022	Cabinet Room 2096	0.4	2/5/2024 7:16:00 AM	2/8/2024 4:11:00 PM	74	15	Customer
Sample Notes:							
524881 382400767-0023	Cabinet Room 2068	0.3	2/5/2024 7:16:00 AM	2/8/2024 4:12:00 PM	74	15	Customer
Sample Notes:							

Please visit www.radontestinglab.com



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<http://www.EMSL.com>

cinnaminsonradonlab@emsl.com

EMSL Order:	382400767
CustomerID:	JCBR50
CustomerPO:	23-55371
ProjectID:	

Test Report: Radon in Air Test Results

Liquid Scintillation ID	Location	Radon Activity (pCi/L)	Start	Stop	Temperature F	Humidity %	Sample Type
524573 382400767-0024	Cabinet Room 2068B	0.1	2/5/2024 7:17:00 AM	2/8/2024 4:13:00 PM	74	13	Customer
Sample Notes:							
522587 382400767-0025	Cabinet Room 2068B	0.3	2/5/2024 7:17:00 AM	2/8/2024 4:13:00 PM	74	13	Duplicate
Sample Notes: Duplicate's Customer Sample:382400767-0024 Duplicate RPD >67%						Duplicate RPD = 100.0%	
524638 382400767-0026	Bookshelf Room 2043	0.3	2/5/2024 7:18:00 AM	2/8/2024 4:14:00 PM	74	14	Customer
Sample Notes:							
524441 382400767-0027	Vending Machine Room 2044	0.7	2/5/2024 7:19:00 AM	2/8/2024 4:15:00 PM	73	13	Customer
Sample Notes:							
523474 382400767-0028	Electrical Panel Room 2045	0.4	2/5/2024 7:19:00 AM	2/8/2024 4:16:00 PM	76	18	Customer
Sample Notes:							
524449 382400767-0029	File Cabinet Room 2062	0.4	2/5/2024 7:21:00 AM	2/8/2024 4:16:00 PM	75	15	Customer
Sample Notes:							
524499 382400767-0030	File Cabinet Room 2062	-0.2	2/5/2024 7:21:00 AM	2/8/2024 4:16:00 PM	75	15	Blank
Sample Notes:							
524457 382400767-0031	Shelf Room 2060	0.4	2/5/2024 7:23:00 AM	2/8/2024 4:18:00 PM	76	16	Customer
Sample Notes:							
524605 382400767-0032	Shelf Room 2058	0.3	2/5/2024 7:24:00 AM	2/8/2024 4:19:00 PM	77	24	Customer
Sample Notes:							
524531 382400767-0033	Shelf Room 2056	0.5	2/5/2024 7:24:00 AM	2/8/2024 4:21:00 PM	76	16	Customer
Sample Notes:							
521318 382400767-0034	Bookshelf Room 2054	0.4	2/5/2024 7:25:00 AM	2/8/2024 4:22:00 PM	77	17	Customer
Sample Notes:							
524532 382400767-0035	Bookshelf Room 2052	0.6	2/5/2024 7:26:00 AM	2/8/2024 4:22:00 PM	75	14	Customer
Sample Notes:							
524477 382400767-0036	Bookshelf Room 2052	0	2/5/2024 7:26:00 AM	2/8/2024 4:22:00 PM	75	14	Duplicate
Sample Notes: Duplicate's Customer Sample:382400767-0035 Duplicate RPD >67%						Duplicate RPD = 200.0%	

Please visit www.radontestinglab.com



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<http://www.EMSL.com>

cinnaminsonradonlab@emsl.com

EMSL Order: 382400767

CustomerID: JCBR50

CustomerPO: 23-55371

ProjectID:

Test Report: Radon in Air Test Results

Liquid Scintillation ID	Location	Radon Activity (pCi/L)	Start	Stop	Temperature F	Humidity %	Sample Type
524541 382400767-0037	Bookshelf Room 2050	0.4	2/5/2024 7:26:00 AM	2/8/2024 4:24:00 PM	76	15	Customer
Sample Notes:							
524483 382400767-0038	Cabinet Vestibule	0.7	2/5/2024 7:29:00 AM	2/8/2024 4:25:00 PM	77	18	Customer
Sample Notes:							
524505 382400767-0039	Stage	0.8	2/5/2024 7:30:00 AM	2/8/2024 4:26:00 PM	72	21	Customer
Sample Notes:							
524513 382400767-0040	File Cabinet Room 123	1.1	2/5/2024 7:31:00 AM	2/8/2024 4:27:00 PM	72	22	Customer
Sample Notes:							
524456 382400767-0041	File Cabinet Room 123	1.1	2/5/2024 7:31:00 AM	2/8/2024 4:27:00 PM	72	22	Duplicate
Sample Notes: Duplicate's Customer Sample:382400767-0040					Duplicate RPD = 0.0%		
524548 382400767-0042	File Cabinet Room 124	1.1	2/5/2024 7:32:00 AM	2/8/2024 4:30:00 PM	71	24	Customer
Sample Notes:							
524511 382400767-0043	File Cabinet Room 124	0.8	2/5/2024 7:32:00 AM	2/8/2024 4:30:00 PM	71	24	Duplicate
Sample Notes: Duplicate's Customer Sample:382400767-0042					Duplicate RPD = 31.6%		

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:	382400767
CustomerID:	JCBR50
CustomerPO:	23-55371
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 (43)

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

Report Amended: 02/27/2024 11:35:38 Replaces the Inital Report 02/16/2024 15:13:23. Reason Code: Data Entry-Change to Location



**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 #: 382400767

EMSL ANALYTICAL, INC.

Company Information:

EMSL Acct #: JCBRSO N.J.

Company Name: JC Broderick & Assoc. Inc.

Contact: Steven Muller

Address: 1775 Express Dr. N.

City: Hanappauge

State: NY Zip: 11788

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

Email: smuller@jcbroderick.com

Technician Certification #: _____

Tech Name: Shirley Murray

Tech Signature: [Signature]

Project/Site Information: *Required

Project Name: South Grove ES

Project # / PO: 23-55371

*Address: 60 Colony Lane

*City: Sydsset *State: NY *Zip: 11791

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

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

Special Notes / Instructions:
43 Samples

***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	524398	Bookshelf	2002	2/5/24	7:02	2/8/24	15:53	75.9	16.8
B	524550								
S	524509	Bookshelf	2005	2/5/24	7:02	2/8/24	15:54	74.6	17.3
S	521636	Closet shelf	2008	2/5/24	7:04	2/8/24	15:54	75.9	19.8
D	524429								
S	521958	Electrical Panel	2011	2/5/24	7:04	2/8/24	15:54	77.7	12.9
S	524527	Closet shelf	2015	2/5/24	7:05	2/8/24	15:56	77.3	14.9
S	521387	Cabinet	2018	2/5/24	7:05	2/8/24	15:58	77.9	13.9
S	524498	Closet shelf	2023	2/5/24	7:06	2/8/24	15:58	77.7	12.9

EMSL ANALYTICAL, INC. RECEIVED CARLE PLACE, N.J.

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Received by EMSL (Sign): [Signature] Date: 2/9/24 Time: 4:00 PM

2/13/24 12:10 PM

Page 1 of 4 Page of 3

(43)



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

EMSL Job #: 382400767

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	524523	File Cabinet	2041	2/5/24	7:06	2/8/24	15:59	77.9	12.9
S	524474	File Cabinet	2027	2/5/24	7:08	2/8/24	16:00	75.5	18.8
S	524606	Shelf	2030	2/5/24	7:08	2/8/24	16:02	74.4	18.7
S	524497	AED	2032	2/5/24	7:09	2/8/24	16:03	74.3	18.7
S	524524	Bookshelf	2071	2/5/24	7:11	2/8/24	16:04	73.0	14.6
B	524405								
S	524447	Bookshelf	2075	2/5/24	7:11	2/8/24	16:05	74.3	14.7
S	524402	Bookshelf	2078	2/5/24	7:12	2/8/24	16:07	73.9	13.6
S	524576	Bookshelf	2081	2/5/24	7:12	2/8/24	16:08	74.3	13.8
S	524397	File Cabinet	2086	2/5/24	7:14	2/8/24	16:09	75.3	14.7
D	524539								
S	524546	Shelf	2089	2/5/24	7:15	2/8/24	16:10	75.3	14.7
S	524673	Cabinet	2096	2/5/24	7:16	2/8/24	16:11	74.4	14.7
S	524881	Cabinet	2068	2/5/24	7:16	2/8/24	16:12	73.7	14.7
S	524573	Cabinet	2068B	2/5/24	7:17	2/8/24	16:13	73.9	13.4
D	522587								
S	524638	Bookshelf	2043	2/5/24	7:18	2/8/24	16:14	74.3	13.7
S	524441	Vending Machine	2044	2/5/24	7:19	2/8/24	16:15	73.4	12.6
S	523474	Electrical Panel	2045	2/5/24	7:19	2/8/24	16:16	75.7	17.8

Relinquished by (Sign):

Date: _____ Time: _____

2 Page of 3

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Date: 2/9/24 Time: 4:06pm



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(COMMERCIAL USE)

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

EMSL Job #: 382400 467

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	524449	File cabinet	2062	2/5/24	7:21	2/8/24	16:16	75.3	14.7
B	524499								
S	524452	Shelf	2060	2/5/24	7:23	2/8/24	16:18	76.1	15.9
S	524605	Shelf	2058	2/5/24	7:24	2/8/24	16:19	76.6	23.8
S	524531	Shelf	2056	2/5/24	7:24	2/8/24	16:21	76.4	15.8
S	521318	Book-shelf	2054	2/5/24	7:25	2/8/24	16:22	76.8	16.8
S	524532	Bookshelf	2052	2/5/24	7:26	2/8/24	16:22	75.2	14.0
D	524477								
S	524541	Bookshelf	2050	2/5/24	7:26	2/8/24	16:24	75.9	15.3
S	524483	cabinet - vestibule		2/5/24	7:29	2/8/24	16:25	76.6	17.8
S	524505	stage		2/5/24	7:30	2/8/24	16:26	77.9	20.5
S	524513	File Cabinet	123	2/5/24	7:31	2/8/24	16:27	77.6	21.5
D	524456								
S	524548	File Cabinet	124	2/5/24	7:32	2/8/24	16:30	77.6	23.5
D	524511								

Relinquished by (Sign): [Signature] Date: 2/9/24 Time: 11:00 AM

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3 Page of 3



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(COMMERCIAL USE)**

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

EMSL Job #: 382400 467

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	524449	File cabinet	2062	2/5/24	7:21	2/8/24	16:16	75.3	14.7
B	524499								
S	524452	Shelf	2060	2/5/24	7:23	2/8/24	16:18	76.1	15.9
S	524605	Shelf	2058	2/5/24	7:24	2/8/24	16:19	76.6	23.8
S	524531	Shelf	2056	2/5/24	7:24	2/8/24	16:21	76.4	15.8
S	521318	Book-shelf	2054	2/5/24	7:25	2/8/24	16:22	76.8	16.8
S	524532	Bookshelf	2052	2/5/24	7:26	2/8/24	16:22	75.2	14.0
D	524477								
S	524541	Bookshelf	2050	2/5/24	7:26	2/8/24	16:24	75.9	15.3
S	524483	cabinet - vestibule		2/5/24	7:29	2/8/24	16:25	76.6	17.8
S	524505	stage		2/5/24	7:30	2/8/24	16:26	75.9	20.5
S	524513	File Cabinet	123	2/5/24	7:31	2/8/24	16:27	75.9	21.5
D	524456								
S	524548	File Cabinet	124	2/5/24	7:32	2/8/24	16:30	75.9	23.5
D	524511								

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 EMSL ANALYTICAL, INC.
 CARLE PLACE, NY
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3 Page of 3