J.C. Broderick & Associates, Inc.

Environmental/Construction Consulting & Testing

March 28, 2022

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

Re: Indoor Radon Sampling and Methane Monitoring

Baylis Elementary School 580 Woodbury Road Plainview, New York 11803

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 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 radon 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 and Methane Monitoring Baylis Elementary School 580 Woodbury Rd., Plainview, NY 11803

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.

Steven Muller, P.G.

Director, Subsurface Division



Company Information:

City: Hauppauge

State: NY

Contact: Bryan Ezelius

Phone: 631-584-5492 Fax:

Tech Name: Jarett Boniface

Technician Certification #:

Tech Signature:

JCBR50 Z Day

Company Name: JC Broderick & Associates

Address: 1775 Expressway Dr North

Email: Bezelius@ JC Broderick . com

CHAIN OF CUSTODY RADON LABORATORY SERVICES

EMSL Job #:

EMSL ANALYTICAL, INC. 200 ROUTE 130 NORTH CINNAMINSON, NJ 08077

PHONE: 800-220-3675 www.emsl.com

/-	382201544	EMSL Job #:		1000		
LYTICAL, INC.	2074012 14	2022	FEB	29	A III:	4
	EMSL					

Acct #:

Zip: 11788

Project/Site Information:	*Requir
Project Name: Baylis Elementary	School
Project # / PO: 21-49341	
*Address: 580 Woodbury Rd	
*City: Plainview *State: NY	*Zip: 11803
*Building type? ☐ Residential ☐ N ☑ School ☐ Other:	on-Residential
*Building foundation type? ☐ Basement☐ Slab on Grade ☐ Other	☑ Crawlspace
Special Notes / Instructions:	

Disclaimer: In no event shall EMSL be liable for regirect, 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.

Turnaround Time (TAT) Options

3 Day

2 Day

(S)Sample	Device Number	vice Number Location	Room #	Exposure Period Beginning Date		Exposure Period Ending Date		Temp,	Humidity
D) Duplicate	Dovido italiiboi			Date	Time	Date	Time	F	%
(S) Sample	488549 488736	Center Desk	2005	2/22/22	10:37	2/25/2	10:55	69.1	26.2
5	488508	Certer Desk	2006	2/22/11	10:38	2/25/21	10:56	69.4	25.6
5	488561	centur Desk	2007	2/22/21	10:39	2/15/11	10:58	69.8	76.5
5 8	488602	Center Desk	2008	22422	10:40	2/25/22	10:59	70.1	25-0
S	488658	Center Desk	2009	2/12/11	10:41	2/25/22	11:01	70.2	26.1
5	438554	Center Desk	2011	2/24/22	10:42	2/25/22	11:02	69.3	26.6
\$	488688	Center Desk	2010	2124/11	10:44	2/25/22	11:04	69.6	25,1

Date:	Time:	
Date:	Time:	Page of

OrderID: 382201544



RECEIVED CHAIN OF CUSTODY RADON LABORATORY SERVICES

(COMMERCIAL USE)

EMSL Job #:

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

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(S)Sample (B)Blank	Device Number	Location	Room #	Exposure Beginnin				Temp,	Humidity
(D) Duplicate		200411011	110011111	Date	Time	Date	Time	°F	%
S	488627	Center Desk	2012	2/12/12	10:46	2/25/12	11:06	69,8	27.3
5	438639	Derk	2013	2/22/n	10:47	2/25/22	11:08	69.6	24,7
5	482708	center Desk	2015	2/22/12	10:49	2/25/12	11:10	69.6	25.6
S	482674	center Desk	2022	2/22/22	10:50	2/25/12	11:13	69.2	25.8
\$	488 560	Center Desk	1055	2/22/2	10:53	2/15/11	11:15	68.0	27.2
5	486833	Center Desk	2050	1/22/21	10:55	2/25/22	11:17	67.4	27.8
S	488625	center Desk	2053	2/22/12	10:57	2/15/11	11:20	66.7	28.1
S	488745	Center Table	2046	2/23/11	16:58	2/25/21	11:22	65.4	29.0
\$	488.642	Center Table	2047	2121/11	10:59	2/25/12	11:23	65.2	29.5
\$	488646	certer Table	2048	2/22/22	11100	2/25/22	11:25	65.6	30.5
\$	488692	Center Table	2049	razh	11:02	2/25/12	11:26	64.9	30.9
5	488756	Center Desk	2049A	2122/22	11:04	2/25/22	11:27	64.8	31.0
5	486845	Center Desk	2077	2/22/22	11:05	2/25/22	11:30	67.4	29.6
S B S	486815 488705	Center Desk	2061	2/22/22	11.06	2/25/22	11:31	64.9	28.3
S	488694	Center Desk	2063	2/22/11	11:08	2/25/22	11:33	64.4	30.4
5	488698	Center Desk	2065	2/22/12	11:10	2/25/22	11:35	64.5	30.0

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(COMMERCIAL USE) EMSL Job #:

EMSL ANALYTIC	CAL, INC. OCACOI	311		A 11: 42			www.emsl.com		
(S)Sample (B)Blank (D)Duplicate	Device Number	Location	Room #	Exposure Beginnin	Period g Date	Exposur Endin	re Period g Date	Temp,	Humidity %
S	488 635	center Table	2068	2 (2 2/2)	Time	2/25/22	Time	64,4	29.4
S	488679	Center Table	C-16	2/22/2	11:13	2/25/22	11:37	64,3	29.8
S	488665	center Desk	C-12	2012/22	11:17	2/25/22	11:38	64.4	28.8
S	488746	Serter	C-9	2/22/22	11:18	2/25/12	11:39	64.3	29.3
S	488612	Center Table	C-7	2/22/22	1019	2/25/22	11:40	64.4	30.0
S	438687	Center Desk	2070	2/22/22	16.51	2/25/22	11:41	64.3	30.1
S	488715	center Desk	2073	2/22/22	11:22	2/25/22	11:43	64.5	30.5
S	488611	Center	2673A	2/22/22	11:13	2/25/22	11:44	64,4	30.6
SB	438670	Center Desk	2044	2/22/22	11:25	2/25/22	[1:47	64.6	30.4
S	4 88 684	Certir Table	2041	2/22/22	[F26	2/25/12	11:48	64.0	31.4
5	4 36997	center Desk	2038	1/21/22	1127	2/25/22	11:50	64.7	30.3
5	488626	center Desk	B-6	1/22/22	11:28	2/25/22	11:52	64,2	30,4
.5	438644	centr Desk	B-9	2/22/12	17:29	2/25/22	11:53	65,1	29.4
S D	488759 4885 9 7	Censer Desk	2035	rryn	11:30	2/24/12	11:55	64.1	30.1
S	488733	Cener Desk	2032	2/2422	11:31	2/25/12	ltis6	64.5	30.0
S	498577	Centro	2029	2/22/22	11:32	2/25/22	11.57	65.3	79,8

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EMSL Job #:

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www.emsl.com

(S)Sample (B)Blank	Device Number	Location	Room #	Exposure Period Beginning Date		Exposur Ending	e Period g Date	Temp,	Humidity,	
(D) Dup					Date	Time	Date	Time	F	%
S		489.580	center Desk	2026	1/22/11	11:33	2/25/2	11:58	64,4	30.9
5		488617	Center Desk	2021	2/22/11	11:34	2/25/22	12:00	69.0	25.7
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http://www.EMSL.com cinnaminsonradonlab@emsl.com EMSL Order: 382201544 CustomerID: CustomerPO:

JCBR50 21-49341

ProjectID:

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

(631) 584-5492 Phone: Fax:

Received: 3/1/2022 11:42 AM

Analysis Date: 3/3/2022 Collected: 2/22/2022

Project: Baylis Elementary School / 580 Woodbury Rd / 21-49341

Test **Baylis Elementary School** Site: 580 Woodbury Rd Plainview, NY 11803

Test Report: Radon in Air Test Results

Liquid Scintillatio	n ID Location	Radon Activity (pCi/L)	Start	Stop	Temperature F	Humidity %	Sample Type
488549 382201544-0001 Sample Notes:	Center Desk 2005	0.5	2/22/2022 10:37:00 AM	2/25/2022 10:55:00 AM	69	26	Customer
488736 382201544-0002 Sample Notes:	Center Desk 2005 Duplicate's Customer Sample:382201544-0001	0.6	2/22/2022 10:37:00 AM	2/25/2022 10:55:00 AM	69 Dupl i	26 icate RPD =	Duplicate
488508 382201544-0003 Sample Notes:	Center Desk 2006	0.1	2/22/2022 10:38:00 AM	2/25/2022 10:56:00 AM	69	25	Customer
488561 382201544-0004 Sample Notes:	Center Desk 2007	0.4	2/22/2022 10:39:00 AM	2/25/2022 10:58:00 AM	69	26	Customer
488636 382201544-0005 Sample Notes:	Center Desk 2008	0.1	2/22/2022 10:40:00 AM	2/25/2022 10:59:00 AM	70	25	Customer
488602 382201544-0006 Sample Notes:	Center Desk 2008	0.3	2/22/2022 10:40:00 AM	2/25/2022 10:59:00 AM	70	25	Blank
488658 382201544-0007 Sample Notes:	Center Desk 2009	0.4	2/22/2022 10:41:00 AM	2/25/2022 11:01:00 AM	70	26	Customer
488554 382201544-0008 Sample Notes:	Center Desk 2011	0.2	2/22/2022 10:42:00 AM	2/25/2022 11:02:00 AM	69	26	Customer
488688 382201544-0009 Sample Notes:	Center Desk 2010	0.4	2/22/2022 10:44:00 AM	2/25/2022 11:04:00 AM	69	25	Customer
488627 382201544-0010 Sample Notes:	Center Desk 2012	0.2	2/22/2022 10:46:00 AM	2/25/2022 11:06:00 AM	69	27	Customer



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EMSL Order: CustomerID: CustomerPO:

382201544 JCBR50 21-49341

ProjectID:

Test Report: Radon in Air Test Results

Liquid Scintillation	n ID Location	Radon Activity (pCi/L)	Start	Stop	Temperature F	Humidity %	Sample Type
488639 382201544-0011 Sample Notes:	Center Desk 2013	0.1	2/22/2022 10:47:00 AM	2/25/2022 11:08:00 AM	69	24	Customer
488708 382201544-0012 Sample Notes:	Center Desk 2015	0.1	2/22/2022 10:49:00 AM	2/25/2022 11:10:00 AN	69	25	Customer
488674 382201544-0013 Sample Notes:	Center Desk 2022	0.6	2/22/2022 10:50:00 AM	2/25/2022 11:13:00 AN	69	25	Customer
488560 382201544-0014 Sample Notes:	Center Desk 1055	1.1	2/22/2022 10:53:00 AM	2/25/2022 11:15:00 AN	68	27	Customer
486833 382201544-0015 Sample Notes:	Center Desk 2050	0.9	2/22/2022 10:55:00 AM	2/25/2022 11:17:00 AN	67	27	Customer
488659 382201544-0016 Sample Notes:	Center Desk 2050 Duplicate's Customer Sample:382201544-0015	1.1	2/22/2022 10:55:00 AM	2/25/2022 11:17:00 AN	67 Dupl i	27 icate RPD =	Duplicate 20.0%
488625 382201544-0017 Sample Notes:	Center Desk 2053	0.7	2/22/2022 10:57:00 AM	2/25/2022 11:20:00 AM	66	28	Customer
488713 382201544-0018 Sample Notes:	Center Desk 2053	0.2	2/22/2022 10:57:00 AM	2/25/2022 11:20:00 AN	66	28	Blank
488745 382201544-0019 Sample Notes:	Center Desk 2046	1.3	2/22/2022 10:58:00 AM	2/25/2022 11:22:00 AN	65	29	Customer
488642 382201544-0020 Sample Notes:	Center Desk 2047	1.2	2/22/2022 10:59:00 AM	2/25/2022 11:23:00 AN	65	29	Customer
488696 382201544-0021 Sample Notes:	Center Desk 2048	1.4	2/22/2022 11:00:00 AM	2/25/2022 11:25:00 AN	65 I	30	Customer
488692 382201544-0022 Sample Notes:	Center Desk 2049	0.6	2/22/2022 11:02:00 AM	2/25/2022 11:26:00 AM	64	30	Customer
488756 382201544-0023 Sample Notes:	Center Desk 2049A	1	2/22/2022 11:04:00 AM	2/25/2022 11:27:00 AW	64	31	Customer



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EMSL Order: 382201544 CustomerID: CustomerPO:

JCBR50 21-49341

ProjectID:

Test Report: Radon in Air Test Results

Liquid Scintillation	n ID Location	Radon Activity (pCi/L)	Start	Stop	Temperature F	Humidity %	Sample Type
486845 382201544-0024 Sample Notes:	Center Desk 2077	0.4	2/22/2022 11:05:00 AM	2/25/2022 11:30:00 AM	67	29	Customer
486815 382201544-0025 Sample Notes:	Center Desk 2061	0.8	2/22/2022 11:06:00 AM	2/25/2022 11:31:00 AM	64	28	Customer
488705 382201544-0026 Sample Notes:	Center Desk 2061	-0.2	2/22/2022 11:06:00 AM	2/25/2022 11:31:00 AM	64	28	Blank
488694 382201544-0027 Sample Notes:	Center Desk 2063	1.1	2/22/2022 11:08:00 AM	2/25/2022 11:33:00 AM	64	30	Customer
488698 382201544-0028 Sample Notes:	Center Desk 2065	1	2/22/2022 11:10:00 AM	2/25/2022 11:35:00 AM	64	30	Customer
488623 382201544-0029 Sample Notes:	Center Desk 2065 Duplicate's Customer Sample:382201544-0028	1.1	2/22/2022 11:10:00 AM	2/25/2022 11:35:00 AM	64 Dupl i	30 icate RPD =	Duplicate 9.5%
488635 382201544-0030 Sample Notes:	Center Desk 2068	1.4	2/22/2022 11:12:00 AM	2/25/2022 11:36:00 AM	64	29	Customer
488679 382201544-0031 Sample Notes:	Center Desk C-10	0.7	2/22/2022 11:13:00 AM	2/25/2022 11:37:00 AM	64	29	Customer
488665 382201544-0032 Sample Notes:	Center Desk C-12	0.9	2/22/2022 11:17:00 AM	2/25/2022 11:38:00 AM	64	28	Customer
488746 382201544-0033 Sample Notes:	Center Desk C-9	0.7	2/22/2022 11:18:00 AM	2/25/2022 11:39:00 AM	64	29	Customer
488612 382201544-0034 Sample Notes:	Center Desk C-7	0.6	2/22/2022 11:19:00 AM	2/25/2022 11:40:00 AM	64	30	Customer
488687 382201544-0035 Sample Notes:	Center Desk 2070	1	2/22/2022 11:21:00 AM	2/25/2022 11:41:00 AM	64	30	Customer
488715 382201544-0036 Sample Notes:	Center Desk 2073	1.6	2/22/2022 11:22:00 AM	2/25/2022 11:43:00 AM	64	30	Customer



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EMSL Order: 382201544 CustomerID: CustomerPO:

JCBR50 21-49341

ProjectID:

Test Report: Radon in Air Test Results

Liquid Scintillatio	n ID Location	Radon Activity (pCi/L)	Start	Stop	Temperature F	Humidity %	Sample Type
488611 382201544-0037 Sample Notes:	Center Desk 2073A	1.1	2/22/2022 11:23:00 AM	2/25/2022 11:44:00 AM	64 I	30	Customer
488670 382201544-0038 Sample Notes:	Center Desk 2044	1.3	2/22/2022 11:25:00 AM	2/25/2022 11:47:00 AN	64 I	30	Customer
488677 382201544-0039 Sample Notes:	Center Desk 2044	-0.1	2/22/2022 11:25:00 AM	2/25/2022 11:47:00 AN	64 I	30	Blank
488684 382201544-0040 Sample Notes:	Center Desk 2041	1	2/22/2022 11:26:00 AM	2/25/2022 11:48:00 AN	64 I	31	Customer
486997 382201544-0041 Sample Notes:	Center Desk 2038	1.4	2/22/2022 11:27:00 AM	2/25/2022 11:50:00 AN	64 I	30	Customer
488626 382201544-0042 Sample Notes:	Center Desk B-6	0.9	2/22/2022 11:28:00 AM	2/25/2022 11:52:00 AM	64 I	30	Customer
488644 382201544-0043 Sample Notes:	Center Desk B-9	0.6	2/22/2022 11:29:00 AM	2/25/2022 11:53:00 AN	65 I	29	Customer
488759 382201544-0044 Sample Notes:	Center Desk 2035	0.9	2/22/2022 11:30:00 AM	2/25/2022 11:55:00 AN	64 I	30	Customer
488597 382201544-0045 Sample Notes:	Center Desk 2035 Duplicate's Customer Sample:382201544-0044	1	2/22/2022 11:30:00 AM	2/25/2022 11:55:00 AN	64 Dupli	30 cate RPD =	Duplicate : 10.5%
488733 382201544-0046 Sample Notes:	Center Desk 2032	1.3	2/22/2022 11:31:00 AM	2/25/2022 11:56:00 AM	64 I	30	Customer
488577 382201544-0047 Sample Notes:	Center Desk 2029	1.3	2/22/2022 11:32:00 AM	2/25/2022 11:57:00 AN	65 I	29	Customer
488580 382201544-0048 Sample Notes:	Center Desk 2026	1.4	2/22/2022 11:33:00 AM	2/25/2022 11:58:00 AM	64 I	30	Customer
488617 382201544-0049 Sample Notes:	Center Desk 2021	1	2/22/2022 11:34:00 AM	2/25/2022 12:00:00 PN	69 I	25	Customer

Report Notes



200 Route 130 North, Cinnaminson, NJ 08077

Phone/Fax: http://www.EMSL.com

(800) 220-3675 / (856) 786-0327

cinnaminsonradonlab@emsl.com

EMSL Order: 382201544 CustomerID: CustomerPO:

JCBR50 21-49341

ProjectID:

Test Report: Radon in Air Test Results

Radon Activity Temperature Humidity (pCi/L) Liquid Scintillation ID Location Start Stop Sample Type % 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 (49) 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 12:12:59