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- Asbestos Inspections
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- Mercury Vapor Assessments
- Radon Measurements
- Mold Investigations
- Lead-Based Paint Inspections
- Hazardous Materials Assessments
- Asbestos Training Services

Limited Lead-Based Paint Sampling Report

Former Marysville Water Plant
409 N. Main Street
Marysville, Ohio 43040

Prepared for:

City of Marysville
209 South Main Street
Marysville, Ohio 43040
(937) 645-7362

Report Date: June 20, 2023
Project Number: 23-232-004

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35 Compark Road, Suite 203, Dayton, Ohio 45459
937-751-7872 Office
www.daytontesting.com

Dayton Environmental Testing, LLC

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June 20, 2023

Mr. Jeremy Hoyt, P.E.
Public Service Director
City of Marysville, Ohio
209 South Main Street
Marysville, Ohio 43040
(937) 645-7357
jhoyt@marysvilleohio.org

Re: Limited Lead Sampling Report
Former Marysville Water Plant
409 N. Main Street
Marysville, Ohio 43040
DET Project Number: 23-232-004

Dear Mr. Hoyt,

Dayton Environmental Testing, LLC (DET) has prepared this report to document the purpose, methodology, and results of the lead-based paint sampling conducted within the former Marysville Water Plant building located at 409 N. Main Street in Maryville, Ohio (Project Site). The results, conclusions, and recommendations presented in this report are based on conditions that were present during our site visit on May 30, 2023.

PURPOSE AND SCOPE

The City of Marysville, Ohio (Client) requested that DET perform lead sampling within the main building at the Project Site to screen various paints for lead content. This sampling effort is not inclusive of all paints located at the Project Site.

GENERAL LEAD-BASED PAINT INFORMATION

Elemental lead is a heavy, soft, easily worked, bluish metal. Lead has been mined, smelted, and made into products for thousands of years. Lead compounds, such as white lead and lead chromate, have been widely used in paint. Lead has also been added to varnishes, stains, shellacs, and primers. Lead is added to paint primarily for its color, durability, and fast drying capability. Lead exposure can cause serious health problems. Primary routes of lead exposure are from inhaling lead dust particles or by ingesting paint chips, dust, or soil containing lead.

Lead-based paint is defined as paint or other surface coatings that contain lead equal to or greater than 1.0 milligram per square centimeter (1.0 mg/cm^2) or 0.5 percent by weight. Lead-based paint is still available for commercial applications.

INSPECTION METHODOLOGY

The lead-based paint sampling was performed on May 30, 2023 by Ohio-Licensed Lead Risk Assessor Michael Lee (License # LA9387, expiring January 13, 2025). A copy of the assessor's license is included in Attachment C.

Surface coatings were analyzed for lead content using an Olympus Vanta C X-ray Fluorescence (XRF) Spectrum Lead Detector (Serial no. B22720B).

The calibration of the XRF unit was checked before beginning the sampling period and at the end of the sampling period. The calibration of the XRF was also checked every 4 hours during while collecting sample readings, if applicable. Portable XRF calibration check readings are taken on the National Institute of Standards and Technology (NST) Standard Reference Material (SRM) using the 2573 paint film. The results of the calibration checks are included on the Summary of Lead-Based Paint Analysis in Attachment B.

Individual room names are depicted on building floor plans provided in Attachment A. Side allocation of walls within each room equivalent are identified as either "A, B, C or D", based on the orientation to the side of the building facing N. Main Street. The wall closest and parallel to N. Main Street was identified as Wall A. Facing the building from N. Main Street, Walls B, C, and D are identified clockwise from Wall A.

RESULTS

Many paints within this building were found to be lead-based paint or to contain detectible concentrations of lead. Results of all components tested during this inspection are detailed on the Summary of Lead-Based Paint Analysis provided in Attachment B.

RECOMMENDATIONS

DET recommends that contractors disturbing lead-containing paints comply with OSHA's Lead in Construction Standard (29 CFR 1926.62). Paints containing any amount of lead have the potential to create lead exposure hazards and contamination.

We sincerely appreciate the opportunity to provide this service to you and the City of Marsyville. Please feel free to contact us if you have any questions regarding this report, or if we can be of further assistance.

Respectfully,

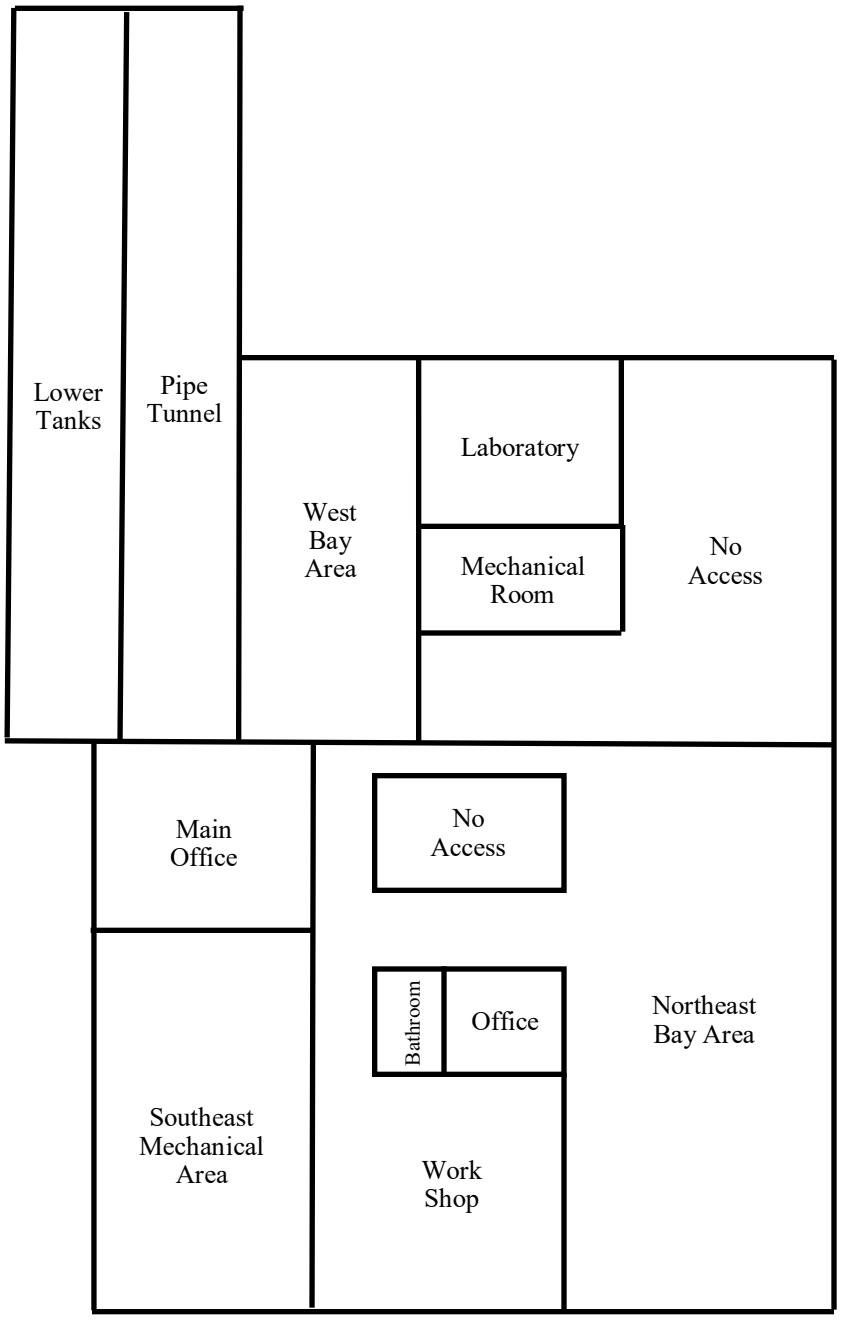
Dayton Environmental Testing, LLC

Michael B. Lee
Senior Project Manager
Ohio-Licensed Lead Risk Assessor LA-9387

ATTACHMENTS

Attachment A – Building Floor Plans
Attachment B – Summary of Lead-Based Paint Analysis
Attachment C – Qualifications of Assessor

ATTACHMENT A
BUILDING FLOOR PLANS



N. Main Street

North →

Building Floor Plans
Marysville Water Plant
409 N. Main Street, Marysville, Ohio 43040

Sampling Dates: May 30, 2023		Floor : First Floor	
Project #: 23-232-004	Scale: Not to Scale	Drawn By: MBL	PAGE 1 OF 2

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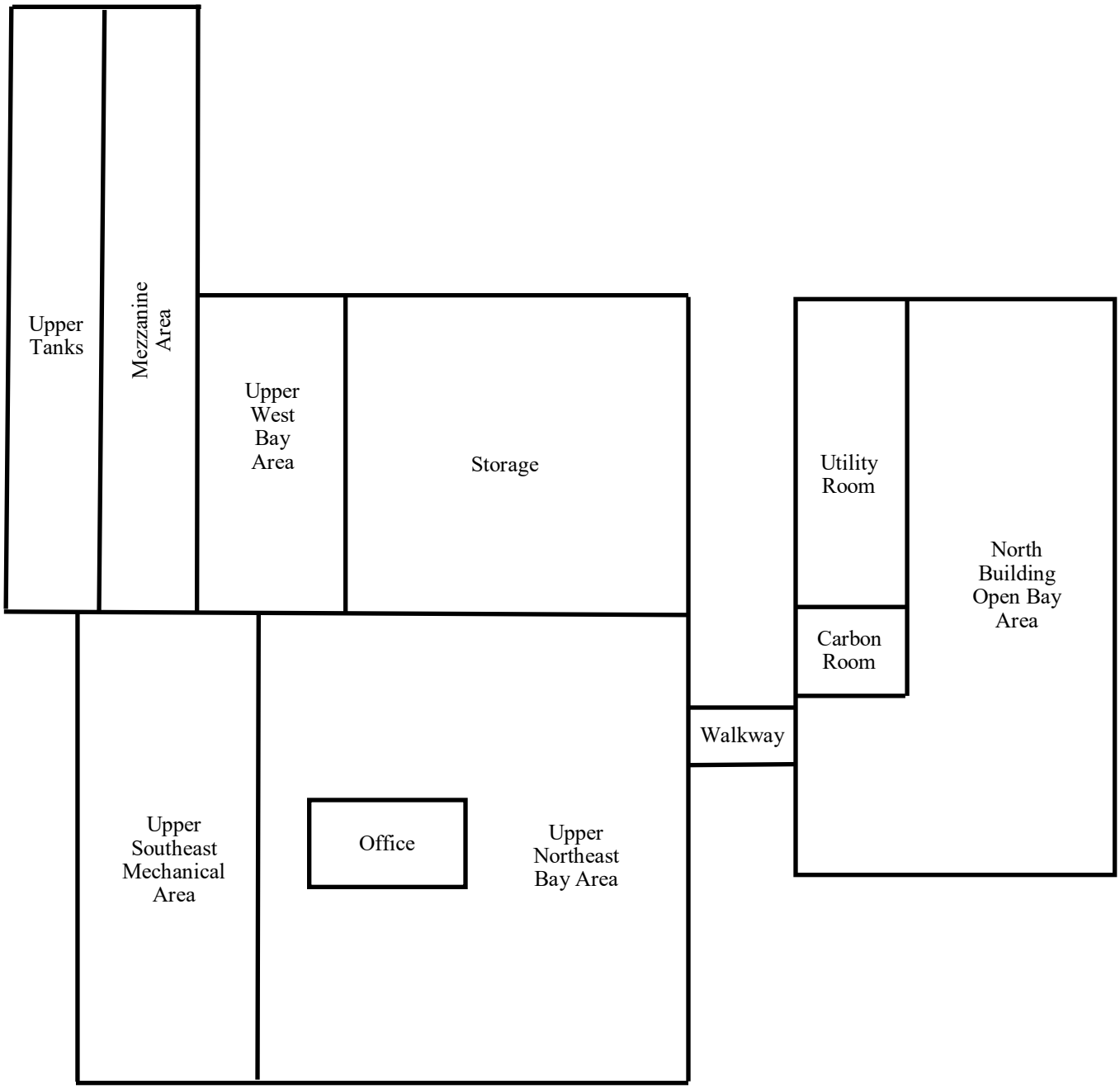

N. Main Street

North →

Building Floor Plans
Marysville Water Plant
409 N. Main Street, Marysville, Ohio 43040

Sampling Dates: May 30, 2023			Floor : Second Floor
Project #: 23-232-004	Scale: Not to Scale	Drawn By: MBL	PAGE 2 OF 2

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ATTACHMENT B
SUMMARY OF LEAD-BASED PAINT ANALYSIS

Dayton
Environmental Testing, LLC

Summary of Lead-Based Paint Analysis

Former Marysville Water Plant
409 N. Main Street
Marysville, Ohio 43040

Reading #	Date	Time	Type	Component	Substrate	Side	Color	Floor Level	Room Number/Name	Pb mg/cm^2	+/-	Inspector
Instrument Calibration												
1	5/30/2023	8:14	NIST Check	--	--	--	--	--	--	1.127	0.039	Lee
2	5/30/2023	8:15	NIST Check	--	--	--	--	--	--	1.141	0.039	Lee
3	5/30/2023	8:16	NIST Check	--	--	--	--	--	--	1.135	0.039	Lee
Painted Surfaces												
4	5/30/2023	8:18	Lead Paint	Wall	Drywall	C	White	1	Main Office	ND	<0.0006	Lee
5	5/30/2023	8:19	Lead Paint	Baseboard	Wood	D	Tan	1	Main Office	ND	<0.0006	Lee
6	5/30/2023	8:20	Lead Paint	Door	Wood	D	White	1	Main Office	ND	<0.0006	Lee
7	5/30/2023	8:21	Lead Paint	Door Jamb	Wood	B	Tan	1	Main Office	ND	<0.0004	Lee
8	5/30/2023	8:22	Lead Paint	Door	Metal	B	White	1	Main Office	ND	<0.0004	Lee
9	5/30/2023	8:23	Lead Paint	Door	Metal	D	White	1	Main Office	ND	<0.0005	Lee
10	5/30/2023	8:24	Lead Paint	Ceiling	Drywall	--	White	1	Main Office	ND	<0.0004	Lee
11	5/30/2023	8:25	Lead Paint	Chair rail	Wood	D	Green	1	Southeast Mechanical Area	1.91	0.10	Lee
12	5/30/2023	8:27	Lead Paint	Panel	Wood	D	White	1	Southeast Mechanical Area	5.00	<0.42	Lee
13	5/30/2023	8:28	Lead Paint	Catwalk Railing	Metal	--	Green	1	Southeast Mechanical Area	0.010	0.0004	Lee
14	5/30/2023	8:29	Lead Paint	Window	Wood	D	Green	1	Southeast Mechanical Area	0.099	0.014	Lee
15	5/30/2023	8:30	Lead Paint	Door Casing	Wood	D	White	1	Southeast Mechanical Area	5.00	0.27	Lee
16	5/30/2023	8:31	Lead Paint	Door	Wood	D	White	1	Southeast Mechanical Area	0.060	0.014	Lee
17	5/30/2023	8:32	Lead Paint	Wall	Concrete	A	White	1	Southeast Mechanical Area	ND	<0.0005	Lee
18	5/30/2023	8:33	Lead Paint	Wall	Concrete	B	White	1	Southeast Mechanical Area	ND	<0.0004	Lee
19	5/30/2023	8:34	Lead Paint	Window Jamb	Concrete	B	Green	1	Southeast Mechanical Area	5.00	0.11	Lee
20	5/30/2023	8:35	Lead Paint	Pipe	Metal	--	Green	1	Southeast Mechanical Area	ND	<0.006	Lee
21	5/30/2023	8:36	Lead Paint	Pipe	Metal	--	Green	1	Southeast Mechanical Area	ND	<0.006	Lee
22	5/30/2023	8:37	Lead Paint	Glazed Brick	Concrete	C	Green	1	Southeast Mechanical Area	ND	<0.003	Lee
23	5/30/2023	8:38	Lead Paint	Catwalk Platform	Metal	--	Green	1	Southeast Mechanical Area	0.040	0.008	Lee
24	5/30/2023	8:41	Lead Paint	Wall	Plaster	B	Green	1	Work Shop	5.00	0.54	Lee
25	5/30/2023	8:42	Lead Paint	Wall Panel	Wood	B	Green	1	Work Shop	5.00	0.31	Lee
26	5/30/2023	8:43	Lead Paint	Column	Metal	--	Green	1	Work Shop	3.80	0.12	Lee
27	5/30/2023	8:44	Lead Paint	Wall	Plaster	A	White	1	Northeast Bay Area	5.00	0.68	Lee
28	5/30/2023	8:45	Lead Paint	Wall	Wood	A	White	1	Northeast Bay Area	ND	<0.0004	Lee

ND=Below the equipment's dectection limit

Dayton
Environmental Testing, LLC

Summary of Lead-Based Paint Analysis

Former Marysville Water Plant
409 N. Main Street
Marysville, Ohio 43040

Reading #	Date	Time	Type	Component	Substrate	Side	Color	Floor Level	Room Number/Name	Pb mg/cm^2	+/-	Inspector
29	5/30/2023	8:46	Lead Paint	Wall	Concrete	A	White	1	Northeast Bay Area	0.019	0.012	Lee
30	5/30/2023	8:47	Lead Paint	Wall	Drywall	A	Off-White	1	Office (Near Bathroom)	ND	<0.0004	Lee
31	5/30/2023	8:48	Lead Paint	Ceiling	Drywall	--	Off-White	1	Office (Near Bathroom)	ND	<0.0004	Lee
32	5/30/2023	8:49	Lead Paint	Door	Metal	C	Red	1	Office (Near Bathroom)	ND	<0.0007	Lee
33	5/30/2023	8:50	Lead Paint	Stall Divider	Metal	--	Green	1	Bathroom	0.022	0.006	Lee
34	5/30/2023	8:51	Lead Paint	Wall	Drywall	D	White	1	Bathroom	ND	<0.0004	Lee
35	5/30/2023	8:53	Lead Paint	Ceiling	Drywall	--	White	1	Bathroom	ND	<0.0004	Lee
36	5/30/2023	8:54	Lead Paint	Wall	Brick	A	Blue	1	West Bay Area	0.158	0.028	Lee
37	5/30/2023	8:55	Lead Paint	Wall	Brick	A	Blue	1	West Bay Area	0.170	0.03	Lee
38	5/30/2023	8:56	Lead Paint	Stairs	Metal	--	Gray	1	West Bay Area	3.35	0.15	Lee
39	5/30/2023	8:57	Lead Paint	Wall	Concrete	D	Blue	1	West Bay Area	0.055	0.014	Lee
40	5/30/2023	8:58	Lead Paint	Wall	Drywall	D	Blue	1	West Bay Area	ND	<0.0004	Lee
41	5/30/2023	8:59	Lead Paint	Door	Metal	D	White	1	West Bay Area	ND	<0.0004	Lee
42	5/30/2023	9:00	Lead Paint	Door Jamb	Metal	D	White	1	West Bay Area	ND	<0.0006	Lee
43	5/30/2023	9:01	Lead Paint	Door	Metal	C	Gray	1	West Bay Area	ND	<0.0004	Lee
44	5/30/2023	9:02	Lead Paint	Door Jamb	Wood	C	Gray	1	West Bay Area	ND	<0.0005	Lee
45	5/30/2023	9:03	Lead Paint	Wall	Drywall	A	White	1	Laboratory	ND	<0.0004	Lee
46	5/30/2023	9:04	Lead Paint	Wall	Brick	D	White	1	Laboratory	0.093	0.17	Lee
47	5/30/2023	9:05	Lead Paint	Cabinet	Metal	B	Blue	1	Laboratory	ND	<0.0004	Lee
48	5/30/2023	9:07	Lead Paint	Floor	Concrete	--	Gray	1	Laboratory	ND	<0.0005	Lee
49	5/30/2023	9:08	Lead Paint	Wall	Brick	D	Gray	1	Mechanical Room	0.057	0.009	Lee
50	5/30/2023	9:09	Lead Paint	Wall	Concrete	A	Gray	1	Mechanical Room	0.023	0.006	Lee
51	5/30/2023	9:10	Lead Paint	Door Jamb	Metal	B	Gray	1	Mechanical Room	ND	<0.0005	Lee
52	5/30/2023	9:11	Lead Paint	Door	Metal	B	White	1	Mechanical Room	0.0056	0.0009	Lee
53	5/30/2023	9:12	Lead Paint	Ceiling	Concrete	--	Black	1	Mechanical Room	0.126	0.014	Lee
54	5/30/2023	9:13	Lead Paint	Pipe	Metal	--	Green	1	Pipe Tunnel	0.232	0.018	Lee
55	5/30/2023	9:14	Lead Paint	Pipe	Metal	--	Blue	1	Pipe Tunnel	0.171	0.027	Lee
56	5/30/2023	9:15	Lead Paint	Wall	Concrete	A	Blue	1	Upper Tank Area (East)	0.126	0.029	Lee
57	5/30/2023	9:16	Lead Paint	Railing	Metal	--	Gray	1	Upper Tank Area (East)	0.241	0.028	Lee
58	5/30/2023	9:17	Lead Paint	Ceiling	Wood	--	Green	1	Upper Tank Area (East)	0.063	0.013	Lee

ND=Below the equipment's dectection limit

Dayton Environmental Testing, LLC

Summary of Lead-Based Paint Analysis

Former Marysville Water Plant
409 N. Main Street
Marysville, Ohio 43040

Reading #	Date	Time	Type	Component	Substrate	Side	Color	Floor Level	Room Number/Name	Pb mg/cm^2	+/-	Inspector
59	5/30/2023	9:19	Lead Paint	Ceiling	Concrete	--	Blue	1	Upper Tank Area (East)	ND	<0.0002	Lee
60	5/30/2023	9:20	Lead Paint	Wall	Brick	C	Blue	1	Upper Tank Area (East)	ND	<0.0005	Lee
61	5/30/2023	9:21	Lead Paint	Ceiling	Concrete	--	Blue	1	Upper Tank Area (West)	ND	<0.0005	Lee
62	5/30/2023	9:22	Lead Paint	Door	Metal	C	Brown	1	Upper Tank Area (West)	ND	<0.0007	Lee
63	5/30/2023	9:23	Lead Paint	Door Casing	Metal	C	Brown	1	Upper Tank Area (West)	ND	<0.0005	Lee
64	5/30/2023	9:24	Lead Paint	Wall	Brick	A	Blue	1	Upper Tank Area (West)	0.054	0.014	Lee
65	5/30/2023	9:25	Lead Paint	Tank	Concrete	--	Blue	1	Upper Tank Area (West)	ND	<0.0004	Lee
66	5/30/2023	9:26	Lead Paint	Pipe	Concrete	--	Blue	1	Upper Tank Area (West)	ND	<0.0004	Lee
67	5/30/2023	9:27	Lead Paint	Window	Wood	B	Gray	2	Storage	0.039	0.002	Lee
68	5/30/2023	9:28	Lead Paint	Wall	Brick	C	Gray	2	Storage	0.051	0.008	Lee
69	5/30/2023	9:29	Lead Paint	Wall	Wood	A	Gray	2	Storage	0.057	0.009	Lee
70	5/30/2023	9:30	Lead Paint	Door	Wood	A	Gray	2	Storage	0.065	0.01	Lee
71	5/30/2023	9:31	Lead Paint	Wall	Drywall	C	White	2	Office (2nd Floor)	ND	<0.0004	Lee
72	5/30/2023	9:32	Lead Paint	Ceiling	Wood	--	White	2	Office (2nd Floor)	5.00	0.52	Lee
73	5/30/2023	9:33	Lead Paint	Ceiling	Wood	--	White	2	Northeast Bay Area (Upper)	5.00	0.37	Lee
74	5/30/2023	9:34	Lead Paint	Wall	Plaster	C	White	2	Northeast Bay Area (Upper)	0.079	0.018	Lee
75	5/30/2023	9:35	Lead Paint	Wall	Metal	A	Green	2	Walkway	0.015	0.006	Lee
76	5/30/2023	9:37	Lead Paint	Wall	Drywall	B	Blue	2	Walkway	ND	<0.0004	Lee
77	5/30/2023	9:38	Lead Paint	Wall	Concrete	A	Blue	2	North Building Open Bay Area	ND	<0.0005	Lee
78	5/30/2023	9:39	Lead Paint	Wall	Concrete	C	Blue	2	North Building Open Bay Area	ND	<0.0005	Lee
79	5/30/2023	9:40	Lead Paint	Door	Metal	C	White	2	North Building Open Bay Area	ND	<0.0006	Lee
80	5/30/2023	9:41	Lead Paint	Door Jamb	Metal	C	White	2	North Building Open Bay Area	ND	<0.0008	Lee
81	5/30/2023	9:42	Lead Paint	Railing	Metal	--	Gray	2	Exterior	0.169	0.017	Lee
82	5/30/2023	9:43	Lead Paint	Roof Ladder	Metal	C	Blue	2	Exterior	0.078	0.011	Lee
83	5/30/2023	9:44	Lead Paint	Wall	Concrete	D	Green	2	Carbon Room	ND	<0.0006	Lee
84	5/30/2023	9:46	Lead Paint	Wall	Concrete	A	White	1	North Building Lower Mech.	ND	<0.0004	Lee
Instrument Calibration												
85	5/30/2023	9:49	NIST Check	--	--	--	--	--	--	1.135	0.039	Lee
86	5/30/2023	9:50	NIST Check	--	--	--	--	--	--	1.138	0.039	Lee
87	5/30/2023	9:51	NIST Check	--	--	--	--	--	--	1.129	0.039	Lee

ND=Below the equipment's dectection limit

ATTACHMENT C
QUALIFICATIONS OF ASSESSOR

Ohio | Department of Health

Mike DeWine, Governor
Jon Husted, Lt.Governor

Bruce Vanderhoff, MD, MBA, Director

December 20, 2022

Michael B Lee
P.O. Box 1084
Marysville OH 43040

RE: Lead Risk Assessor
License Number: LA9387
Expiration Date: 01/13/2025

Dear Michael B Lee:

This letter and enclosed license approves your request to be licensed as a Lead Risk Assessor. You must present your license upon request at any project site while performing duties. A copy of your license is not acceptable as proof of licensure.

Please be aware of the rules and regulations governing your discipline for Ohio. If you choose to renew this license, you must take an Ohio approved refresher course appropriate for the discipline within your current two year licensure period. Please visit our website at www.odh.ohio.gov for information.

This license may be revoked by the Director of Health for violation of any of the requirements of 3701-32 of the Ohio Administrative Code.

If you have any questions, please call the Ohio Department of Health, Lead Poisoning Prevention Program at (614) 466-1450.

Sincerely,

Shamus Estep
Program Administrator
Bureau of Environmental Health and Radiation Protection

246 North High Street
Columbus, Ohio 43215 U.S.A.
614 I 466-3543
www.odh.ohio.gov