

March 3, 2021

Ms. Patricia Omondi Senior Construction Adviser/Special Projects Administrator **Redevelopment Authority of Prince Georges County** 9200 Basil Court - Suite 504 Largo, MD 20774

Re: Lead Screening Inspection Report 4785 Towne Square Boulevard Suitland, MD 20746

One Source Environmental Project Number: 21-1040B-LBP

Dear Ms. Omondi:

### **INTRODUCTION**

On February 20<sup>th</sup>, 2021, One Source Environmental, LLC (OSE) performed a lead-based paint (LBP)/lead component screening inspection of the referenced Building. The scope of work included testing of component surfaces to the specifications described in the protocols for Lead Based Paint testing in the Housing and Urban Development (HUD) Guidelines Chapter 7 (including all revisions thru 2020). This inspection was also done in accordance with Lead Safe Housing Rule 24 CFR Part 35 subpart F as amended June 21, 2004. The inspection was performed prior to planned demolition activities of the Building. The Building was vacant at the time of the inspection.

### **METHODOLOGY**

HUD defines Lead-Based Paint (LBP) as paint containing greater than or equal to 1.0 milligrams per square centimeter (mg/cm<sup>2</sup>). The Maryland Department of the Environment (MDE) has a more stringent standard of greater than 0.7 mg/cm<sup>2</sup> which was used for this report. Representative interior, common area, and exterior surfaces were tested for lead content using a Direct-Read X-Ray Fluorescent (XRF) Spectrometer. The screening inspection was performed by Dharam Kissoondath, an MDE accredited Lead Risk Assessor (Accreditation Number 7148), using a Radiation Monitoring Devices (RMD) LPA-1 X-Ray Fluorescence (XRF) Spectrometer. OSE is an MDE accredited Lead Paint Inspection Contractor (Accreditation Number 10401). Representative components were tested in three (3) dwelling units as well as representative common area and exterior components during the screening inspection.

The calibration of the RMD LPA-1 is done in accordance with the Performance Characteristic Sheet (PCS) for this instrument. These XRF instruments are calibrated using a calibration standard block of known lead content. Three calibration readings are taken before and after each property is tested to ensure manufacturers standards are met. If for any reason the instrument is not

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maintaining a consistent calibration reading within the manufacturer's standards for performance on the calibration block supplied by the manufacturer, manufacturer's recommendations are used to bring the instrument into calibration. If the instrument cannot be brought back into calibration, it is taken off the site and sent back to the manufacturer for repair and/or re-calibration.

The inspection included readings from surfaces throughout the site. Each surface was classified as being in Intact (I) or Poor (P) condition. For each room or area, the wall facing the front of the Building was designated as Wall A. The remaining walls, Wall B, Wall C and Wall D were assigned clockwise from Wall A. This allows a uniform method for describing sample locations throughout the dwelling. The attached Spreadsheets show all positive readings as well as all readings taken.

### **FINDINGS**

A total of 123 individual XRF Readings were collected during the inspection. This included 96 dwelling unit interior surfaces, 21 common area and exterior surfaces, and 6 calibration readings. Four (4) readings had lead levels above the threshold of 0.7 mg/cm<sup>2</sup>.

The following table summarizes components that are coated with Lead-Based Paint (LBP) that are in <u>poor</u> (P) condition and currently present existing lead-based paint hazards:

Location	Component(s)	Substrate	Color(s)
Exterior	Window Lintels	Metal	White

The following table summarizes components that are coated with Lead-Based Paint (LBP) that are in <u>intact</u> (I) condition and are potential lead-based paint hazards if disturbed or paint film becomes deteriorated:

Location	Component(s)	Substrate	Color(s)
Exterior	Door Jambs	Wood	Green

See attached spreadsheets for all positive readings and all readings.

### **DISCUSSION OF EPA REGULATIONS**

As of April 22, 2010, all contractors and renovation/maintenance workers are required to have a one day EPA renovator class when working in residential and Child occupied facilities constructed prior to 1978 that contain LBP which may be disturbed.

EPA also regulates disposal of debris containing greater than 5 parts per million (ppm) lead. A composite sample of debris generated from any renovation projects should be sampled and analyzed for lead content using the Toxicity Characteristics Leaching Procedure (TCLP) to determine if it is classified as hazardous waste prior to disposal.

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### **DISCUSSION OF OSHA REGULATIONS**

In addition to the components that tested positive for LBP, the XRF testing revealed lead concentrations less than 1.0 mg/cm<sup>2</sup>, but greater than the limit of detection (0.1 mg/cm<sup>2</sup>) for the instrument used for the other surfaces. In addition, some unpainted surfaces such as metals or ceramics or enclosed/covered components may contain lead and could possibly contribute to airborne, dust or soil hazards if they become deteriorated or disturbed. Structural components, metal alloys, and solder may also contain lead.

Components identified as containing lead in *any concentration* are required be handled in accordance with 29 CFR 1926.62, the OSHA "Lead Exposure in Construction" Standard. The OSHA standard does not define LBP.

The OSHA Standard requires an employer to assure that no employee is exposed to airborne lead at concentrations greater than 50 micrograms of lead per cubic meter of air  $(ug/M^3)$  averaged over an eight-hour period. The standard further requires the employer to make a determination of its employee's potential exposure to lead by blood testing if airborne exposures reach 30  $ug/M^3$  over an eight hour time weighted average. The standard presumes exposure levels for various activities such as sanding, grinding, welding, blasting or other activities that may create lead hazards. Ceramic components should be removed intact without breakage if they are to be disturbed during renovations as these may also contain lead.

If such activities are performed, the employer must provide adequate personal and respiratory protection to match the presumed exposures listed in the Standard. Deviation from the presumed exposure is typically achieved by performing personal monitoring during various "representative" construction activities. The level of personal and respiratory protection can then be modified based upon the results of monitoring. Any renovation work should follow lead safe work practices outlined in 29 CFR 1926.62, the OSHA "Lead Exposure in Construction" Standard.

### CONCLUSIONS AND RECOMMENDATIONS

Any future demolition work should follow lead safe work practices outlined in 29 CFR 1926.62, the OSHA "Lead Exposure in Construction" Standard. All workers on the site should have a minimum of one day EPA renovator training.

Representative waste from the demolition project should be tested for overall lead content using the TCLP methodology to determine if it should be classified as hazardous waste.

### DISCLAIMER

This is our report of a visual survey, and X-Ray Fluorescence (XRF) analysis of the readily accessible areas of this property and tested components. The presence or absence of lead-based paint or lead-based paint hazards applies only to the tested or assessed surfaces on the date of the field visit and it should be understood that conditions noted within this report were accurate at the time of the inspection and in no way reflect the conditions at the property after the date of the inspection.

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The attachments referenced below are an integral part of this report. OSE appreciates your interest in our services. If you have any questions, or if we can be of further assistance, please do not hesitate to contact me at (240) 286-2601.

Very truly yours, One Source Environmental, LLC

William R. Ciancaglini Project Manager <u>bill@ose-llc.com</u>

### **ATTACHMENTS**

XRF Results – (XRF Summary, Positive XRF Readings, and All XRF Readings) Property Diagrams Photographs Licenses and Accreditations Performance Characteristics Sheet (PCS) for the XRF

### XRF Results Summary 4785 Towne Square Blvd Suitland, MD 20764

#	Unit #/Area	# of Readings	# of Positives	Positive Readings Poor Condition Readigs in BOLD	Drawing Number
1	Unit 2	33	0		1
2	Unit 7	33	0		2
3	Unit 11	33	0		3
	Common/Exterior Areas	24	4	Exterior - Door Jambs Exterior - Window Lintels	4
	Property Totals	123	4		

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Read	Unit	Area	Room	Side	Comp	Location	Feature	Condition	Mode	Substrate	Color	Int/Ext	Pb	Result
#	Onic	Area	#	Side	Comp	LOCALION	reature	Condition	woue	Substrate	COIOI	IIII, EXL	mg/cm2	Result
114	Exterior	2	Side A	Α	Door	Ctr	Lft jamb	I	QM	Wood	green	Exterior	2.2	Positive
115	Exterior	2	Side A	Α	Window	Lft	lintel	Р	QM	Metal	white	Exterior	2.3	Positive
116	Exterior	2	Side A	Α	Window	Rgt	lintel	Р	QM	Metal	white	Exterior	2.0	Positive
120	Exterior	3	Side B	В	Window	Lft	lintel	Р	QM	Metal	white	Exterior	1.9	Positive

Read #	Unit	Area	Room	Side	Comp	Location	Feature	Condition		Substrate	Color	Int/Ext	Pb mg/cm2	Result
1			Calibration						TC				1.0	
2			Calibration						TC				1.1	
3			Calibration						TC		1.11		1.1	N
4	11 11	1	Living Rm	A B	Wall Wall	U Lft U Lft			QM QM	Plaster	white	Interior	0.0	Negative
6	11	1	Living Rm Living Rm	C	Wall	U Lft			QM	Plaster Plaster	white white	Interior	0.2	Negative Negative
7	11	1	Living Rm	C	Ceiling	Lft			QM	Plaster	white	Interior Interior	0.2	Negative
8	11	1	Living Rm	c	Baseboard	Lft			QM	Wood	white	Interior	0.3	Negative
9	11	1	Living Rm	C C	Window	Ctr	Sill		QM	Wood	white	Interior	0.2	Negative
10	11	1	Living Rm	C	Window	Ctr	Apron		QM	Wood	white	Interior	0.0	Negative
11	11	1	Living Rm	C	Window	Ctr	Rgt casing		QM	Wood	white	Interior	0.1	Negative
12	11	1	Living Rm	D	Vent	Lft			QM	Metal	white	Interior	0.2	Negative
13	11	1	Living Rm	A	Door	Rgt	L Rgt		QM	Metal	white	Interior	0.3	Negative
14	11	1	Living Rm	A	Door	Rgt	Lft casing		QM	Metal	white	Interior	0.5	Negative
15	11	2	Kitchen	В	Cabinet	Rgt			QM	Wood	white	Interior	0.0	Negative
16	11	2	Kitchen	B	Cabinet	Rgt	door		QM	Wood	white	Interior	0.1	Negative
17	11	2	Kitchen	C	Vent	Ctr			QM	Metal	white	Interior	0.1	Negative
18	11	2	Kitchen	C	Window	Ctr	Sill		QM	Wood	white	Interior	0.1	Negative
19	11	2	Kitchen	C	Window	Ctr	Apron		QM	Wood	white	Interior	0.0	Negative
20	11	3	Bathroom	A	Wall	U Ctr			QM	Plaster	white	Interior	0.2	Negative
21	11	3	Bathroom	C	Wall	U Ctr			QM	Plaster	white	Interior	0.0	Negative
22	11	3	Bathroom	D	Wall	U Ctr			QM	Ceramic	white	Interior	0.0	Negative
23	11	3	Bathroom	В	toilet	Rgt			QM	Ceramic	white	Interior	-0.2	Negative
24	11	3	Bathroom	C	Floor	Ctr			QM	Ceramic	white	Interior	0.0	Negative
25	11	3	Bathroom	A	Door	Ctr	L Rgt		QM	Wood	white	Interior	0.0	Negative
26	11	3	Bathroom	A	Door	Ctr	Lft jamb		QM	Wood	white	Interior	-0.2	Negative
27	11	3	Bathroom	A	Door	Ctr	Lft casing		QM	Wood	white	Interior	0.0	Negative
28	11	4	Bedroom	В	Wall	U Ctr			QM	Plaster	white	Interior	0.2	Negative
29	11	4	Bedroom	D	Wall	U Ctr			QM	Plaster	white	Interior	0.1	Negative
30	11	4	Bedroom	D	Baseboard	Ctr			QM	Wood	white	Interior	0.1	Negative
31	11	4	Bedroom	В	Closet	Ctr	Door		QM	Wood	white	Interior	0.0	Negative
32	11	4	Bedroom	В	Closet	Ctr	Shelf		QM	Wood	white	Interior	0.0	Negative
33	11	4	Bedroom	В	Closet	Ctr	baseboard		QM	Wood	white	Interior	0.1	Negative
34	7	1	Living Rm	Α	Wall	U Lft			QM	Plaster	Beige	Interior	0.2	Negative
35	7	1	Living Rm	С	Wall	U Lft			QM	Plaster	white	Interior	0.0	Negative
36	7	1	Living Rm	C	Ceiling	Lft			QM	Plaster	white	Interior	0.3	Negative
37	7	1	Living Rm	Α	Baseboard	Lft			QM	Wood	white	Interior	0.0	Negative
38	7	1	Living Rm	С	Baseboard	Lft			QM	Wood	white	Interior	-0.2	Negative
39	7	1	Living Rm	С	Window	Lft	Sill		QM	Wood	white	Interior	0.2	Negative
40	7	1	Living Rm	С	Window	Lft	Apron		QM	Wood	white	Interior	0.0	Negative
41	7	1	Living Rm	С	Window	Lft	Rgt casing		QM	Wood	white	Interior	0.1	Negative
42	7	1	Living Rm	Α	Door	Rgt	L Rgt	I	QM	Metal	white	Interior	0.2	Negative
43	7	1	Living Rm	Α	Door	Rgt	Lft casing	1	QM	Metal	white	Interior	0.2	Negative
44	7	2	Kitchen	В	Cabinet	Rgt		1	QM	Wood	white	Interior	0.0	Negative
45	7	2	Kitchen	В	Cabinet	Rgt	door	1	QM	Wood	white	Interior	-0.2	Negative
46	7	2	Kitchen	С	Vent	Ctr		1	QM	Metal	white	Interior	0.2	Negative
47	7	2	Kitchen	С	Window	Ctr	Sill	1	QM	Wood	white	Interior	0.0	Negative
48	7	2	Kitchen	С	Window	Ctr	Apron	I	QM	Wood	white	Interior	0.0	Negative
49	7	2	Kitchen	С	Baseboard	Ctr		I	QM	Wood	white	Interior	0.2	Negative
50	7	3	Bathroom	С	Wall	U Ctr		I	QM	Plaster	white	Interior	0.1	Negative
51	7	3	Bathroom	С	Wall	L Rgt			QM	Ceramic	white	Interior	0.0	Negative
52	7	3	Bathroom	D	Wall	L Rgt			QM	Ceramic	white	Interior	-0.2	Negative
53	7	3	Bathroom	С	Window	Ctr	Sill	I	QM	Wood	white	Interior	0.0	Negative
54	7	3	Bathroom	С	Window	Ctr	Apron	I	QM	Wood	white	Interior	-0.2	Negative
55	7	3	Bathroom	Α	Door	Ctr	L Rgt	I	QM	Wood	white	Interior	0.0	Negative
56	7	3	Bathroom	Α	Door	Ctr	Lft jamb	I	QM	Wood	white	Interior	-0.2	Negative
57	7	3	Bathroom	Α	Door	Ctr	Lft casing	I	QM	Wood	white	Interior	0.0	Negative
58	7	4	Bedroom	Α	Wall	U Ctr		I	QM	Plaster	white	Interior	0.2	Negative
59	7	4	Bedroom	С	Wall	U Ctr		I	QM	Plaster	white	Interior	0.1	Negative
60	7	4	Bedroom	С	Ceiling	Ctr		I	QM	Plaster	white	Interior	0.3	Negative
61	7	4	Bedroom	Α	Baseboard	Ctr		1	QM	Wood	white	Interior	0.2	Negative
62	7	4	Bedroom	В	Closet	Ctr	Door	1	QM	Wood	white	Interior	-0.1	Negative
	7	4	Bedroom	В	Closet	Ctr	Shelf	1	QM	Wood	white	Interior	0.0	Negative

1	21-1040B-LBP	- 4785	Towne Squ	are Blvd,	Suitland,	MD 20	746 - All	XRF Readin	gs

Read #	Unit	Area	Room	Side	Comp	Location	Feature	Condition	Mode	Substrate	Color	Int/Ext	Pb mg/cm2	Result
64	7	4	Bedroom	В	Closet	Ctr	baseboard	I	QM	Wood	white	Interior	0.2	Negative
65	7	4	Bedroom	В	Door	Lft	L Rgt	I	QM	Wood	white	Interior	0.0	Negative
66	7	4	Bedroom	В	Door	Lft	Lft jamb	I	QM	Wood	white	Interior	-0.2	Negative
67	2	1	Living Rm	Α	Wall	U Lft		Ι	QM	Plaster	white	Interior	0.2	Negative
68	2	1	Living Rm	В	Wall	U Lft		I	QM	Plaster	white	Interior	0.1	Negative
69	2	1	Living Rm	C	Wall	U Lft		-	QM	Plaster	white	Interior	0.3	Negative
70	2	1	Living Rm	C	Ceiling	Lft			QM	Plaster	white	Interior	0.2	Negative
71	2	1	Living Rm	Α	Baseboard	Lft		_	QM	Wood	white	Interior	0.0	Negative
72	2	1	Living Rm	С	Window	Ctr	Sill	I	QM	Wood	white	Interior	0.2	Negative
73	2	1	Living Rm	C	Window	Ctr	Apron	1	QM	Wood	white	Interior	0.3	Negative
74	2	1	Living Rm	C	Window	Ctr	Rgt casing		QM	Wood	white	Interior	0.1	Negative
75	2	1	Living Rm	Α	Door	Lft	U Rgt	I	QM	Metal	white	Interior	0.4	Negative
76	2	1	Living Rm	Α	Door	Lft	Lft casing	1	QM	Metal	white	Interior	0.3	Negative
77	2	2	Kitchen	В	Cabinet	Lft		1	QM	Wood	white	Interior	0.0	Negative
78	2	2	Kitchen	В	Cabinet	Lft	door	I	QM	Wood	white	Interior	-0.2	Negative
79	2	2	Kitchen	C	Window	Ctr	Sill		QM	Wood	white	Interior	0.0	Negative
80	2	2	Kitchen	C	Window	Ctr	Apron	Ι	QM	Wood	white	Interior	0.0	Negative
81	2	2	Kitchen	C	Vent	Ctr			QM	Metal	white	Interior	0.2	Negative
82	2	3	Bathroom	Α	Wall	U Ctr			QM	Plaster	white	Interior	0.2	Negative
83	2	3	Bathroom	C	Wall	U Ctr			QM	Plaster	white	Interior	0.1	Negative
84	2	3	Bathroom	D	Wall	L Ctr		I	QM	Ceramic	white	Interior	0.0	Negative
85	2	3	Bathroom	D	Ceiling	Ctr			QM	Plaster	white	Interior	0.2	Negative
86	2	3	Bathroom	A	Door	Ctr	L Rgt		QM	Wood	white	Interior	0.0	Negative
87	2	3	Bathroom	A	Door	Ctr	Lft jamb	I	QM	Wood	white	Interior	-0.2	Negative
88	2	4	Bedroom	A	Wall	U Ctr			QM	Plaster	white	Interior	0.2	Negative
89	2	4	Bedroom	С	Wall	U Ctr		I	QM	Plaster	white	Interior	0.3	Negative
90	2	4	Bedroom	C	Ceiling	Ctr		I	QM	Plaster	white	Interior	0.2	Negative
91	2	4	Bedroom	A	Baseboard	Ctr		I	QM	Wood	white	Interior	-0.2	Negative
92	2	4	Bedroom	C	Window	Ctr	Sill	I	QM	Wood	white	Interior	0.1	Negative
93	2	4	Bedroom	C	Window	Ctr	Apron		QM	Wood	white	Interior	0.2	Negative
94	2	4	Bedroom	D	Closet	Ctr	Door		QM	Wood	white	Interior	0.1	Negative
95	2	4	Bedroom	D	Closet	Ctr	Shelf		QM	Wood	white	Interior	0.3	Negative
96	2	4	Bedroom	D	Closet	Ctr	baseboard		QM	Wood	white	Interior	0.2	Negative
97	2	4	Bedroom	D	Closet	Ctr	Wall		QM	Plaster	white	Interior	0.2	Negative
98	2	4	Bedroom	D	Door	Rgt	L Rgt		QM	Wood	white	Interior	0.0	Negative
99	2	4	Bedroom	D	Door	Rgt	Lft jamb		QM	Wood	white	Interior	0.2	Negative
100	Commons	1	1st floor	A	Wall	ULft			QM	Concrete	white	Exterior	0.4	Negative
101	Commons	1	1st floor	B	Wall	ULft			QM	Concrete	white	Exterior	0.3	Negative
102 103	Commons	1	1st floor 1st floor	C C	Wall	U Lft Lft			QM QM	Concrete Plaster	white	Exterior	0.5 0.3	Negative
103	Commons Commons	1	1st floor	A	Ceiling Stairs	Ctr	handrail	P	QM	Metal	white	Exterior Exterior	0.3	Negative Negative
104	Commons	1	1st floor	A	Stairs	Ctr	Balusters	P P	QM	Metal	green	Exterior	0.4	Negative
105	Commons	1	1st floor	A	Stairs	Ctr	Newel post	P	QM	Metal	green green	Exterior	0.5	Negative
100	Commons	1	1st floor	A	Stairs	Ctr	Railing cap	P	QM	Metal	green	Exterior	0.3	Negative
107	Commons	1	1st floor	A	Stairs	Ctr	Stringers		QM	Metal	green	Exterior	0.2	Negative
108	Commons	1	1st floor	A	Window	Ctr	Sill		QM	Wood	green	Exterior	0.3	Negative
110	Commons	1	1st floor	A	Window	Ctr	Apron		QM	Wood	green	Exterior	0.3	Negative
110	Commons	1	1st floor	B	door@#1	Rgt	Аргон		QM	Metal	-	Exterior	0.3	Negative
112	Commons	1	1st floor	B	door@#1	Rgt	door case		QM	Metal	green green	Exterior	0.5	Negative
112	Exterior	2	Side A	A	Door	Ctr	L Rgt		QM	Metal	white	Exterior	0.0	Negative
114	Exterior	2	Side B	A	Door	Ctr	Lft jamb		QM	Wood	green	Exterior	2.2	Positive
114	Exterior	2	Side B	A	Window	Lft	lintel	P	QM	Metal	white	Exterior	2.2	Positive
115	Exterior	2	Side B	A	Window	Rgt	lintel	P	QM	Metal	white	Exterior	2.0	Positive
117	Exterior	2	Side A	A	fence	Lft	miter	г	QM	Metal	black	Exterior	0.1	Negative
117	Exterior	2	Side A	A	Downspout	Lft			QM	Metal	white	Exterior	0.1	Negative
118	Exterior	2	Side B	B	fence	Ctr			QM	Metal	black	Exterior	0.0	Negative
119	Exterior	3 3	Side B	B	Window	Lft	lintel	P		Metal	white	Exterior	1.9	Positive
120	LALCHUI	3	Calibration	D	window	LIL	milei	r	TC	IVICIAI	white	LACETION	1.9	FUSILIVE
121			Calibration						TC				0.8	
122				$\left  - \right $										
123	1		Calibration						TC			1	1.0	



DIAGRAM #1

# Property Diagram

JOB #: \_ 21-1040 B-1.6P

Inspector's	s Name: _DHARAN	I KISSOONDA	ГН	Accr	editation #:	7148
Property A	ddress: 4785			Unit/	/apt #	
City:	Suitland	State:	MD	Zip:	20746	
2. Nu	tions: aw a diagram of the pro unber each room, Inclu d/or structures.		es, exterior structure	es and any other	significant featu	:es

1 Bedroom

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DIAGRAM #2

# **Property Diagram**

JOB #: \_21-1040 B-LBP

Inspect	or's Name: _DHARAM	I KISSOONDAT	TH	Accr	editation #:	7148
Propert	y Address: ィコ&う 1	TOWNE SQUA	re blud	Unit/	'apt #	
City:	Suitland	State:	MD	Zip:	20746	
1.	tructions: Draw a diagram of the pro Number each room. Inclu and/or structures.		s, exterior structures a	and any other s	significant featur	es

1 Bedroom

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PIAGRAM #3

# Property Diagram

JOB #: \_\_\_\_\_O40 B-LBP

Inspector's Name: _DHARAM KISSOONDATH	Accreditation #:714	8
Property Address: 4785 TOWN SQUARE BLVD	Unit/apt #	
City:SuitlandState:MD	Zip:20746	
<ol> <li>Instructions:</li> <li>Draw a diagram of the property</li> <li>Number each room. Include hallways, porches, exterior structures ar and/or structures.</li> </ol>	nd any other significant features	

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JOB #: \_ 21-1040 B-LBP

ptortm #4

### **Property Diagram**

Inspec	tor's Name: _DHARAM	I KISSOONDA'I	TH	Ассто	editation #:	7148
Proper	ty Address:_ 4785	TOWNE SON	UARE BLVA	Unit/	apt # <u>conno</u>	<u>~S</u>
City: _	Suitland	State:	MD	Zip:	20746	
ŧ	structions: Draw a diagram of the pro	perty				
2.	Number each room. Inclu and/or structures.	de hallways, porche	exterior structures	and any other	significant featur	es

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### Photographs

Project No.: 21-1040B-LBP

### Project Name: 4785 Towne Square Blvd – Suitland, MD



Photo Site #1:



Photo Typical Living Room Components #3: No LBP





Photo Front Door Jambs #2: Intact LBP



Photo Typical Bedroom Components #4: No LBP



Photo Typical Bathroom Components #6: No LBP No Elevated Lead in Ceramics



### Photographs

### Project No.: 21-1040B-LBP

### Project Name: 4785 Towne Square Blvd – Suitland, MD



Photo Exterior #7: Window Lintels LBP in Poor Condition





Photo Typical Hallway Components #8: No LBP

# THIS IS TO CERTIFY THAT One Source Environmental, LLC

# HAS MET THE LEAD PAINT SERVICES ACCREDITATION REQUIREMENTS FOR

Lead Paint Inspection Contractor

EXPIRATION DATE 09, 23, 2021

**TRAINING PROVIDER** 

COURSE DATE

ADMINISTRATOR, LEAD PAINT ACCREDITATION MARYLAND DEPARTMENT OF THE ENVIRONMENT

8/2/19

DATE

# **STATE OF MARYLAND**

Application for reaccreditation shall be submitted to MDE 60 days prior to accreditation expiration indicated on this certificate.

Certificate # 10401



Department of the Environment

### RADIOLOGICAL HEALTH PROGRAM RADIOACTIVE MATERIAL LICENSE

Page 1 of 4

Pursuant to the Maryland Radiation Act, and in reliance on statements and representations heretofore made by the licensee, a license is hereby issued authorizing the licensee to receive, acquire, possess and transfer radioactive material listed below; and to use such radioactive material for the purpose(s) and at the place(s) designated below. The license is subject to all applicable rules, regulations and orders of the Maryland State Department of the Environment, now or hereinafter in effect and to any conditions specified below.

Department of the Environment, nov								
1. Name:     One Source Environmental, LLC     3. License No.:     MD-17-029-01								
2. Address: 4476 Irish Peach Court		4. Amendment No.: 04: CODE 03126						
Waldorf, Maryland 2060	02 5. E	5. Expiration Date: August 31, 2021						
6. Radioactive material element &	7. Chemical and/or phy	sical form: 8	8. Maximum amount of					
mass number:			radioactivity which licensee may					
			possess at any one time:					
A C 1-1-57		[						
A. Cobalt-57	A. Sealed source:		A. No source to exceed 15 millicuries					
	QSA Global Corpora → Model CTC.P1	lion	minicuries					
	Isotopes Products La	oratories						
	$\rightarrow$ Model 3814							
	Model 3901 Seri	es						
	North American Scie							
	Model IND 115							
	Model IND 140	3						
	DuPont Merck Pharr	naceutical						
	Company → Model NER 372							
	Model NER 372							
B. Cobalt-57	B. Isotopes Products L	aboratories	B. No source to exceed 10					
	➢ Model 3901 Ser		millicuries					
9. Authorized Use(s):	* <u></u>	· · · · · · · · · · · · · · · · · · ·						
A. For use in Protec LPA-1 x-	ray fluorescence to measur	e lead-in-paint	in situ.					
B. For use in Viken (Heuresi	•	-						
	· ·		L					
	License Condit	ons						

- 10. The authorized place of use is the licensee's address stated in Item 2 and temporary job sites of the licensee throughout Maryland except those areas under federal jurisdiction. The licensee must notify the Radiological Health Program 30 days prior to vacating a permanent use address.
- 11A. The radiation protection program shall be under the supervision of Dharam Kissoondath.



#### RADIOLOGICAL HEALTH PROGRAM RADIOACTIVE MATERIAL LICENSE

License No.: MD-17-029-01

Amendment No.: 04

### **Conditions Continued**

- 11B. Radioactive material shall be used by or under the supervision and in the physical presence of an employee who:
  - 1) has a certificate from a licensed training course on file with the licensee; and
  - 2) the licensee has authorized to use radioactive material and has so notified the Radiological Health Program, in writing.
- 12. The licensee shall comply with all appropriate provisions of COMAR 26.12.01.01 "Regulations for the Control of Ionizing Radiation," and possess a copy of these regulations.
- 13A. Each sealed source containing radioactive material, other than Hydrogen-3 with a half-life greater than thirty (30) days and in any form other than gas shall be tested for leakage and/or contamination at intervals not to exceed twelve (12) months. In the absence of a certificate from a transferor indicating that a test has been made within six (6) months prior to the transfer, the sealed source shall not be put into use until tested. If there is reason to suspect that a sealed source might have been damaged, or might be leaking, it shall be tested for leakage before further use.
- 13B. The test shall be capable of detecting the presence of 0.005 microcurie of radioactive material on the test sample. The test sample shall be taken from the sealed source or from the surfaces of a device in which the sealed source is permanently mounted or stored on which one might expect contamination to accumulate.
- 13C. Records of leak tests shall be kept in units of microcuries and maintained for inspection by the Department.
- 13D. If the test reveals the presence of 0.005 microcurie or more of removable contamination, the licensee shall immediately withdraw the sealed source from use and shall cause it to be decontaminated and repaired or to be disposed of in accordance with Department regulations. A report shall be filed within five (5) days of the test with the Administrator, Radiological Health Program, 1800 Washington Blvd., Baltimore, Maryland 21230 describing the equipment involved, the test results, and the corrective action taken.
- 13E. Test for leakage and/or contamination shall be performed by licensee or by other persons specifically authorized by the Department, the U.S. Nuclear Regulatory Commission or another Agreement State to perform such services.
- 14. Sealed sources containing radioactive material shall not be opened or removed from their respective source holders by the licensee.
- 15. Maintenance and repair of devices containing radioactive material and installation, replacement, and disposal of sealed sources shall be performed by persons specifically authorized by the Department, the U.S. Nuclear Regulatory Commission or another Agreement State to perform such services.

Page 2 of 4



Department of the Environment

### RADIOLOGICAL HEALTH PROGRAM RADIOACTIVE MATERIAL LICENSE

Page 3 of 4

License No.: MD-17-029-01

Amendment No.: 04

### Conditions Continued

- 16. The licensee shall conduct a physical inventory every six- (6) months to account for all sealed sources received and possessed under the license. The records of the inventories shall be maintained for three (3) years from the date of the inventory for inspection by the Department, and shall include the quantities and kinds of radioactive material, location of sealed sources, and the date of the inventory.
- 17. Transportation of radioactive material in the State of Maryland shall be in compliance with Part T, Section T.5 "Transportation of Licensed Material" of COMAR 26.12.01.01.
- 18A. The licensee shall not make any false statement, representation, or certification in any application, record, report, plan, or other document regarding radiation levels, tests performed or radiation safety conditions or practices. Additionally, the licensee shall not falsify, tamper with, or render inaccurate any monitoring device or method.
- 18B. Violation of any term, condition, or regulation could subject the licensee to administrative or civil penalty or criminal prosecution, as specified in Title 8, Radiation, of the Article Environment of the Annotated Code of Maryland.
- 18C. The licensee shall not transfer ownership and/or control of this license to any person or entity without providing required information regarding the transfer for the Agency's review and without receiving written authorization for the transfer by the Agency.



### RADIOLOGICAL HEALTH PROGRAM RADIOACTIVE MATERIAL LICENSE

License No.: MD-17-029-01

Amendment No.: 04

### **Conditions Continued**

- 19. Except as specifically provided otherwise by this license, the licensee shall possess and use radioactive material authorized by this license in accordance with statements representations, and procedures contained in:
  - Renewal application dated May 31, 2014.
  - Letter with attachments dated July 25, 2014.
  - E-mail dated May 21, 2018, changing the authorized place of use to 4476 Irish Peach Court, Waldorf, Maryland 20602, and changing the Radiation Safety Officer to Dharam Kissoondath. Your Radioactive Material License Number has been changed to MD-17-029-01. MD-03-113-01 is no longer valid.
  - E-mail dated July 22, 2019, adding a Vikens (Heuresis) Pb200i XRF.

COMAR 26.12.01.01 "Regulations for the Control of Ionizing Radiation" shall govern the licensee's statements in applications or letters, unless the statements are more restrictive than the regulations.

August 9, 2019 URBT 8/14/2019 (000 8/14/2019 MW 8/14/2019

FOR THE MARYLAND DEPARTMENT OF THE ENVIRONMENT

Ex Dai

Eva S. Nair, Program Manager IV Radiological Health Program Air and Radiation Administration

Page 4 of 4

# THIS IS TO CERTIFY THAT Dharam Kissoondath

# HAS MET THE LEAD PAINT SERVICES ACCREDITATION REQUIREMENTS FOR

### **Risk Assessor**

# EXPIRATION DATE 07, 15, 2021

Aerosol Monitoring & Analysis,

TRAINING PROVIDER Inc.

COURSE DATE 07, 26, 2018

ADMINISTRATOR, LEAD PAINT ACCREDITATION MARYLAND DEPARTMENT OF THE ENVIRONMENT

DATE

# **STATE OF MARYLAND**

Application for reaccreditation shall be submitted to MDE 60 days prior to accreditation expiration indicated on this certificate.

Certificate # 7148

# Certificate of Achievement

This is to certify that

Sharam Kissoondath

# One Source Environmental, LLC

On September 30, 2020

Successfully completed the factory training for

### Protec Instrument Corporation XRF Lead Paint Inspection System

Including, but not limited to, the topics of Radiation Safety, DOT Regulations, Haz-Mat Security Awareness, and the Proper Use of the Instrument.

rundthe

Verena Streber, President Protec Instrument Corporation 38 Edge Hill Road, Waltham, MA 02451



### **Performance Characteristic Sheet**

### EFFECTIVE DATE: October 24, 2000

**EDITION NO.: 4** 

### MANUFACTURER AND MODEL:

Make:	Radiation Monitoring Devices
Model:	LPA-1
Source:	<sup>57</sup> Co
Note:	This sheet supersedes all previous sheets for the XRF instrument of the make, model, and source shown above <u>for instruments sold or</u> <u>serviced after June 26, 1995. For other instruments, see prior</u> editions.

### FIELD OPERATION GUIDANCE

### **OPERATING PARAMETERS**

Quick mode or nominal 30-second standard mode readings.

### XRF CALIBRATION CHECK LIMITS

0.7 to 1.3 mg/cm<sup>2</sup> (inclusive)

### SUBSTRATE CORRECTION:

For XRF results below 4.0 mg/cm<sup>2</sup>, substrate correction is recommended for:

Metal using 30-second standard mode readings.

None using quick mode readings.

Substrate correction is not needed for:

Brick, Concrete, Drywall, Plaster, and Wood using 30-second standard mode readings

Brick, Concrete, Drywall, Metal, Plaster, and Wood using quick mode readings

#### THRESHOLDS:

30-SECOND STANDARD MODE	SUBSTRATE	THRESHOLD (mg/cm <sup>2</sup> )				
READING DESCRIPTION						
Results corrected for substrate bias	Brick	1.0				
on metal substrate only	Concrete	1.0				
	Drywall	1.0				
	Metal	0.9				
	Plaster	1.0				
	Wood	1.0				

QUICK MODE READING DESCRIPTION	SUBSTRATE	THRESHOLD (mg/cm <sup>2</sup> )
Readings not corrected for substrate bias on any	Brick	1.0
substrate	Concrete	1.0
	Drywall	1.0
	Metal	1.0
	Plaster	1.0
	Wood	1.0

### **BACKGROUND INFORMATION**

### **EVALUATION DATA SOURCE AND DATE:**

This sheet is supplemental information to be used in conjunction with Chapter 7 of the HUD *Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housin*(HUD Guidelines"). Performance parameters shown on this sheet are calculated from the EPA/HUD evaluation using archived building components. Testing was conducted on approximately 150 test locations in July 1995. The instrument that performed testing in September had a new source installed in June 1995 with 12 mCi initial strength.

#### **OPERATING PARAMETERS:**

Performance parameters shown in this sheet are applicable only when properly operating the instrument using the manufacturer's instructions and procedures described in Chapter 7 of the HUD Guidelines.

### **XRF CALIBRATION CHECK:**

The calibration of the XRF instrument should be checked using the paint film nearest 1.0 mg/cm<sup>2</sup> in the NIST Standard Reference Material (SRM) used (e.g., for NIST SRM 2579, use the 1.02 mg/cm<sup>2</sup> film).

If readings are outside the acceptable calibration check range, follow the manufacturer's instructions to bring the instruments into control before XRF testing proceeds

#### SUBSTRATE CORRECTION VALUE COMPUTATION

Chapter 7 of the HUD Guidelines provides guidance on correcting XRF results for substrate bias. Supplemental guidance for using the paint film nearest 1.0 mg/cm<sup>2</sup> for substrate correction is provided:

XRF results are corrected for substrate bias by subtracting from each XRF result a correction value determined separately in each house for single-family housing or in each development for multifamily housing, for each substrate. The correction value is an average of XRF readings taken over the NIST SRM paint film nearest to 1.0 mg/cm<sup>2</sup> at test locations that have been scraped bare of their paint covering. Compute the correction values as follows:

Using the same XRF instrument, take three readings on a <u>bare</u> substrate area covered with the NIST SRM paint film nearest 1 mg/cm<sup>2</sup>. Repeat this procedure by taking three more readings on a second <u>bare</u> substrate area of the same substrate covered with the NIST SRM.

Compute the correction value for each substrate type where XRF readings indicate substrate correction is needed by computing the average of all six readings as shown below.

For each substrate type (the 1.02 mg/cm<sup>2</sup> NIST SRM is shown in this example; use the actual lead loading of the NIST SRM used for substrate correction):

Correction value = (1st + 2nd + 3rd + 4th + 5th + 6th Reading) / 6 - 1.02 mg/cm<sup>2</sup>

Repeat this procedure for each substrate requiring substrate correction in the house or housing development.

### **EVALUATING THE QUALITY OF XRF TESTING:**

Randomly select ten testing combinations for retesting from each house or from two randomly selected units in multifamily housing. Use either 15-second readings or 60-second readings.

Conduct XRF re-testing at the ten testing combinations selected for retesting.

Determine if the XRF testing in the units or house passed or failed the test by applying the steps below.

Compute the Retest Tolerance Limit by the following steps:

Determine XRF results for the original and retest XRF readings. Do not correct the original or retest results for substrate bias. In single-family housing a result is defined as the average of three readings. In multifamily housing, a result is a single reading. Therefore, there will be ten original and ten retest XRF results for each house or for the two selected units.

Calculate the average of the original XRF result and retest XRF result for each testing combination.

Square the average for each testing combination.

Add the ten squared averages together. Call this quantity C.

Multiply the number C by 0.0072. Call this quantity D.

Add the number 0.032 to D. Call this quantity E.

Take the square root of E. Call this quantity F.

Multiply F by 1.645. The result is the Retest Tolerance Limit.

Compute the average of all ten original XRF results.

Compute the average of all ten re-test XRF results.

Find the absolute difference of the two averages.

If the difference is less than the Retest Tolerance Limit, the inspection has passed the retest. If the difference of the overall averages equals or exceeds the Retest Tolerance Limit, this procedure should be repeated with ten new testing combinations. If the difference of the overall averages is equal to or greater than the Retest Tolerance Limit a second time, then the inspection should be considered deficient.

Use of this procedure is estimated to produce a spurious result approximately 1% of the time. That is, results of this procedure will call for further examination when no examination is warranted in approximately 1 out of 100 dwelling units tested.

### **BIAS AND PRECISION:**

Do not use these bias and precision data to correct for substrate bias. These bias and precision data were computed without substrate correction from samples with reported laboratory results less than 4.0 mg/cm<sup>2</sup> lead. The data which were used to determine the bias and precision estimates given in the table below have the following properties. During the July 1995 testing, there were 15 test locations with a laboratory-reported result equal to or greater than 4.0 mg/cm<sup>2</sup> lead. Of these, one 30-second standard mode reading was less than 1.0 mg/cm<sup>2</sup> and none of the quick mode readings were less than 1.0 mg/cm<sup>2</sup>. The instrument that tested in July is representative of instruments sold or serviced after June 26, 1995. These data are for illustrative purposes only. Actual bias must be determined on the site. Results provided above already account for bias and precision. Bias and precision ranges are provided to show the variability found between machines of the same model.

30-SECOND STANDARD MODE READING MEASURED AT	SUBSTRATE	BIAS (mg/cm <sup>2</sup> )	PRECISION <sup>*</sup> (mg/cm <sup>2</sup> )
0.0 mg/cm <sup>2</sup>	Brick	0.0	0.1
0.0 mg/om	Concrete	0.0	0.1
	Drywall	0.1	0.1
	Metal	0.3	0.1
	Plaster	0.1	0.1
	Wood	0.0	0.1
0.5 mg/cm <sup>2</sup>	Brick	0.0	0.2
0.0g, 0	Concrete	0.0	0.2
	Drywall	0.0	0.2
	Metal	0.2	0.2
	Plaster	0.0	0.2
	Wood	0.0	0.2
1.0 mg/cm <sup>2</sup>	Brick	0.0	0.3
5	Concrete	0.0	0.3
	Drywall	0.0	0.3
	Metal	0.2	0.3
	Plaster	0.0	0.3
	Wood	0.0	0.3
2.0 mg/cm <sup>2</sup>	Brick	-0.1	0.4
J J J J J J J J J J J J J J J J J J J	Concrete	-0.1	0.4
	Drywall	-0.1	0.4
	Metal	0.1	0.4
	Plaster	-0.1	0.4
	Wood	-0.1	0.4

Precision at 1 standard deviation.

### **CLASSIFICATION RESULTS:**

XRF results are classified as positive if they are greater than the upper boundary of the inconclusive range, and negative if they are less than the lower boundary of the inconclusive range, or inconclusive if in between. The inconclusive range includes both its upper and lower bounds. Earlier editions of this *XRF Performance Characteristics Sheet* did not include both bounds of the inconclusive range as "inconclusive." While this edition of the Performance Characteristics Sheet uses a different system, the specific XRF readings that are considered positive, negative, or inconclusive for a given XRF model and substrate remain unchanged, so previous inspection results are not affected.

### **DOCUMENTATION:**

An EPA document titled *Methodology for XRF Performance Characteristic Sheet***pr**ovides an explanation of the statistical methodology used to construct the data in the sheets, and provides empirical results from using the recommended inconclusive ranges or thresholds for specific XRF instruments. For a copy of this document call the National Lead Information Center Clearinghouse at 1-800-424-LEAD. A HUD document titled *A Nonparametric Method for Estimating the 5th and 95th Percentile Curves of Variable-Time XRF Readings Based on Monotone Regression* vides supplemental information on the methodology for variable-time XRF instruments. A copy of this document can be obtained from the HUD lead web site, www.hud.gov/lea.

This edition of the XRF Performance Characteristic Sheet was developed by QuanTech, Inc., under a contract from the U.S. Department of Housing and Urban Development (HUD). HUD has determined that the information provided here is acceptable when used as guidance in conjunction with Chapter 7, Lead-Based Paint Inspection, of HUD's *Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing*