Lead Paint Testing 2121 Garfield Ave S. # 108 May 2015

Per a conversation with Nathan Olson, Health Inspector with the City of Minneapolis, there was no lead paint found and KRC is not required to take any further action.

No Repairs are needed and it is not necessary to add to the lease.

The original report can be found in the "Building" file. A copy of this report has been added to the residents file, and also the "Incidents" file.

Jane Loney 6/3/2015



Health Department

250 South 4th Street - Room 510 Minnespolis, MN 55415

Office 612 673-2301 Fax 612 673-3866 TTY 612 673-2157

www.minneapolismn.govhealth

Hmong - Ceeb toom. Yog koj xau kev pab txhais cov xov rau koj dawb, hu 612-673-2800.

Somali – Ogow. Haddii aad dooneyso in lagaa kaalmeeyo tarjamadda macluumaadkani oo lacag la' aan wac 612-673-3500

Spanish – Atención. Si desea recibir asistencia gratuita para traducer esta información, llama 612-673-2700.

5/5/2015

Northern Gopher Enterprises % Kleinman Realty Co. Fridley MN 55421

Re 2121 Garfield AVE S 108

Dear Northern Gopher Enterprises:

Recently, a child that has lived at (or has regularly visited) the above referenced address over the past 12 months has been diagnosed as having an elevated blood lead level. This elevated blood lead level is most likely due to ingesting lead paint chips or dust particles from deteriorating lead based paint. Possible sources of lead exposure include loose or flaking paint and dust found on windows, doors, walls, porches and trim on both the interior and exterior of the home. Soil, water, batteries and other such items may also be sources of lead.

Minnesota State Statute 144.9501-144.9509 requires that the Minneapolis Health Department (MHD) perform a Lead Risk Assessment inspection at the property and issue corrective orders to the property owner to repair lead hazards.

State statute also allows the MHD to provide a free swab cleaning to the property owner. The purpose of a swab cleaning is to clean window sills, window wells and floors for lead dust in order to immediately remove accessible lead hazards from the child's environment. In some instances it may be necessary to stabilize deteriorated painted surfaces which cannot be cleaned in order reduce the hazard for the child(ren). A swab cleaning will be provided if the inspection indicates that the lead levels are found to be hazardous and immediately accessible to the child(ren). The swab service will be performed by a contractor hired by the Minneapolis Department of Health and is free of charge to the property owner and occupants. Please contact me if you have any questions or concerns about the swab cleaning.

Any sources of lead hazards found at the inspection will be identified in a written report and you will be required to correct them in a timely manner. Currently, there is grant money available to assist with the cost of repairing lead hazards. If you are interested in applying for the grant, please contact Alex Vollmer at 612-673-2710 for a grant application.

I appreciate your cooperation in reducing potential lead hazards for the children living at or visiting the property. If you have any questions please call me at (612) 673-3791

Sincerely, Annual Nathan Olson

Health Inspector

City of Minneapolis - Healthy Homes and Lead Hazard Control





Health Department

250 South 4P Street - Room 510 Minnespolis, MN 55415

Office 612 673-2301 Fax 612 673-3866 TTY 612 673-2157

www.minneapolismn.gov/health

If you need this material in an alternative format please call the Minneapolis Health Department at (612) 673-2301 or email health@minneapolismn.gov.

Deef and head of heaving secretary may be a robust to call 331 persons at (612) 673-3000.

Deaf and hard-of-hearing persons may use a relay service to call 311 agents at (612) 673-3000. TTY users may call (612) 673-2157 or (612) 673-2626.

Attention: If you have any questions regarding this material please call 311 or (612) 673-2301; Hmong - Ceeb toom. You key pab takis cov xov no rau key dawb, hu (612) 673-2800; Spanish - Atención. Si desen recibir asistencia gratuita para traducir esta información, llame al teléfono (612) 673-2700; Somali - Ogow. Haddii aud dooneyso in lagra knalmeeyo tarjamadda macluumandkani oo lacng la' aan wac (612) 673-3500.

5/28/2015

Northern Gopher Enterprises C/O Kleinman Realty Co., 5021 East River Rd, #308 Fridley MN 55421

RE: 2121 Garfield AVE S #108 and common areas

Dear Northern Gopher Enterprises:

A child that has lived at or regularly visited the above referenced address in the past 12 months has been diagnosed as having an elevated blood lead level. As a result of an investigation at this address, it is our opinion that the dwelling contains amounts of lead that make it a hazard for children to live there. Due to the danger which lead and lead-based paint presents to children, the lead must be removed from the child's environment.

Enclosed with this letter please find the following:

- Lead Risk Assessment Report: This report includes the testing results and the lead orders to be performed by the owner of the property or a licensed lead abatement contractor. These results must be disclosed at property transfer and rental transactions.
- <u>List of Contractors</u>: This is a list of firms licensed to perform lead abatement in the State of Minnesota.
- Work Plan for the Owner: This form is a work plan to be submitted to the Minnesota Department of Health by the owner of the property or hired licensed lead abatement contractor.



Working Safely with Lead: If you choose to perform the work orders yourself
please review the enclosed information on how to work lead safe.

The lead orders are issued under Section 240,40 and 240,50 of the Minneapolis Code of Ordinances; Minnesota Statutes 144,9501-9509 as amended. Failure to comply may result in the condemnation of the referenced property.

MINNESOTA STATUTES 144.9501-9509 REQUIRE ANY CONTRACTOR WHO ABATES LEAD-BASED PAINT TO HAVE A MINNESOTA LEAD ABATEMENT LICENSE. EACH MEMBER OF THE WORK CREW MUST BE A LICENSED LEAD WORKER. LEAD ABATEMENT LICENSES ARE ISSUED BY THE MINNESOTA DEPARTMENT OF HEALTH (651-201-4620).

If the referenced property/dwelling becomes vacant, it may not be re-occupied until all lead specifications/orders are completed and complied with Minnesota Statutes 144.9501-9509.

The federal Residential Lead-Based Paint Hazard Reduction Act, 42 U.S.C. 4852d, requires seliets and landlords of most residential bousing built before 1978 to disclose all available records and reports concerning lead-based paint and/or lead-based paint hazards, including the test results contained in this notice, to purchasers and tenants at the time of sale or lease or upon lease renewal. This disclosure must occur even if hazard reduction or abatement has been completed. Failure to disclose these test results is a violation of the U.S. Department of housing and Urban Development and the U.S. Environmental Protection Agency regulations at 24 CFR Part 35 and 40 CFR Part 745 and can result in a fine of up to \$11,000 per violation. To find out more information about your obligations under federal lead-based paint requirements cal! 1-800-424-LEAD.

Sincerely,

Nathan Olson

Environmental Health Specialist

City of Minneapolis - Healthy Homes and Lead Hazard Control

(612) 673-3791



Lead-Based Paint Risk Assessment Report

2121 Garfield AVE S #108 and common areas Minneapolis MN, 55405

Prepared For:

Northern Gopher Enterprises C/O Kleinman Realty Co., 5021 East River Rd, #308 Fridley, MN 55421 No Phone Number Available

By:

Nathan Olson City of Minneapolis 250 S 4th St, Rm. 414 Minneapolis, MN 55415-1372

Minnesota License Number: LR2217

5/28/2015

City of Minneapolis - Healthy Homes and Lead Hazard Control

Paint Inspection / Risk Assessment Summary

Site Address: 2121 Garfield AVE S #108 and common areas

Property Information:

Owner:

Northern Gopher Enterprises

C/O Kieinman Realty Co., 5021 East River Rd, #308

Fridley, MN 55421

Date of Construction: 1970

Occupancy Status: Occupied

Inspection Date: 5/19/2015

Report Date: 5/28/2015

Summary of Findings: No lead Hezards were found.

Summary of Locations of Lead-Based Paint:

Interior

Summary of Lead-Based Paint Hazards:

Paint Hazards: None. Visible dust and debris was not found at the time of the initial

inspection.

Dust Hazards: None

Soil Hazards: None. No bare soil.

Information Included in Report:

Appendix A: Residential Questionnaire

Appendix B: Dwelling Sketches

Appendix C: Exterior Building Assessment

Appendix D: Paint Sampling Results
Appendix E: Visual Assessment Survey

Appendix F: Analytical Results

Appendix G: Lead Violations/Orders/Recommendations

Appendix H: Monitoring Schedules

Appendix I: Niton Performance Characteristics Sheet

Appendix J: Lead Risk Assessor License

Risk Assessor (for more information):

Nathan Olson 2

Minnesota License Number: LR2217

City of Minneapolis

Healthy Homes and Lead Hazard Control

250 S 4th Street, Rm 414

Minneapolis, MN 55415

(612) 673-3791

Report prepared by:

Nathan Olson

City of Minneapolis

Healthy Homes and Lead Hazard Control

250 S 4th Street, Rm 414

Minneapolis, MN 55415

(612) 673-3791







Appendix A: Residential Questionnaire

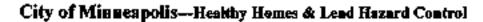
Risk Assessment Report Questionnaire - Public Data

Address: Earth Govern Americans.	Date: 5/19/15
Occupied or Vecant: MN 554e5 Vacant Occupied	
2. Which entrance is used most often?	From door to Street
3. Which windows are opened most often?	Larry sour
4. Are window ACs used? If so, where?	no uman Ats
5. Do you have a garden? If so, where?	<i></i>
6. Are you planning any new gardening or landscaping activities?	\sim 0
 7. Has there been any painting, repair, or renovation done on the property within the last 12 months? if yes: • What type of work was done? 	Mone
When was the work performed?	No
Where was the work performed?	<i>№</i> 0
Was the family home at the time of the work?	MA
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Where was debris stored afterwards?

8. Are you planning any painting, repair, or renovation work in the near future?







Appendix B: Dwelling Sketches

These sketches are diagrams of the exterior and interior rooms of the reference property. The room numbers on the sketches correspond to the "Room" column on the XRF report and the "Room #" column on the analytical sample sheets.

Each room in a dwelling unit or common area is given a room number including the exterior and the garage. Dwelling units and common areas are treated separately and individually numbered beginning with Room 02 (Room 01 is never used). The exterior and garage are numbered as part of the common areas.

The sketches include the locations of both lead dust and soil samples that were collected at the Risk Assessment. They are marked on the sketches as follows:

Window sill – WS Window well – WW Floor – FW Soil Sample – SS



City of Minneapolis - Lead Hazard Control - Dwelling Sketch



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City of Minneapolis - Lead Hazard Control - Dwelling Sketch



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City of Minnespolis - Lead Hazard Control - Dwelling Sketch



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This sketch is not to scale.





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Appendix C Exterior Building Assessment:

Exterior Visual Assessment

Address	2121 Gardield Avenue South, Minneapolis, MN 55405
Date of inspection	5/14/15

Findings- Circled items indicate poor condition* They in for Condition

House	Garage	Porát
Walk	Walls	Walk
Soffit	Soffit	Floor
Fascia	Fascia	Stair
Trim	Trim	Column
Door	Door	Door
Roof	Roof	Ceiling
Chimney		

[&]quot;EPA/HUD definition of deteriorated paint: peeling, chipping, chalking, cracking or any peint coating located on any interior/exterior surface or figure that is otherwise demaged or separated from the surface.

Interior <10% peeling, chipping, chalking, cracking, demaged or separated

Poors > 10% peeling, chipping, chalking, cracking; damaged or separated; boards missing or loose, holes evident, many shingles missing, roof sagging.

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Appendix D: Paint Sampling Results Report

An XRF device was used to test painted surfaces for lead content. The paint inspection was conducted according to established HUD guidelines and according to the City of Minneapolis Protocol.

Paint Standard

The legal definition of lead point is $\ge 1.0 \text{ mg/cm}^2$. The result column will indicate "pos" when the lead content of the point is greater than this standard.

Please note that some painted surfaces tested below this legal definition. However, the paint will contain lead if the result is >0 mg/cm² and it therefore, has the potential to cause lead poisoning. It is best to always use lead safe work practices when disturbing paint that contains any lead.

Explanation of Column Headings:

Reading # (No)- the reading number generated by the XRF machine

Insp/XRF - the initials of the inspector and the serial number of the machine

Floor - Floor level tested

Room - room being tested (see site diagrams also included)

Side - Wall side of the room starting with A on the street side and going clock-wise.

Component- the structural component tested (e.g. wall, window sill, floor)

Substrate - the composition of the tested component

Condition - the condition of the paint

Color - the color of the paint

DI - Depth index - the larger the number the deeper the lead-based paint layer

Results - the result of the test (positive for lead or negative for lead)

Pbe - the total combined lead in the layers of paint

Phy Error - the error of the total combined lead level

17 CMZ/22261

18 CMZ/22261

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Unit #108

City	of Mi	inneapolis			2121 Garfield	Avenu	ue South, #108	and comr	non areas			Date in	pectec	d: 5/19/15
KRE	# Ins	spector/XRF#	Site	Floor	Room	Side	Component	Substrate	Condition	Color	DI	Results	PbC	PbC Error
	-	MZ/22261	Unit #108	0	Shutter Cal.								7.94	0
	_	MZ/22261	Unit #108	0	Calibrate						A 15 - Saltino		9.01	0
N	-	MZ/22261	Unit #108	0	Calibrate	OF THE REAL PROPERTY.	CERCE III PER	N. STEERS		KING TO	1.07	Positive	1	0.1
	4 CN	MZ/22261	Unit #108	0	Calibrate						1.13	Positive	1.1	0.1
	5 CN	MZ/22261	Unit #108	0	Calibrate						2.76	Positive	1.1	0.1
	6 CN	MZ/22261	Unit #108	0	Living Room/Kitchen 2	Α	Wall	Drywall	Intact	Beige	1	Negative	0	0.02
	7 CN	NZ/22261	Unit #108	0	Living Room/Kitchen 2	В	Wall	Drywall	Intact	Beige	1	Negative	0	0.02
	8 CN	NZ/22261	Unit #108	0	Living Room/Kitchen 2	C	Wall	Drywall	Intact	Beige	1	Negative	0	0.02
	9 CN	NZ/22261	Unit #108	0	Living Room/Kitchen 2	D	Wall	Drywall	Intact	Beige	1	Negative	0	0.02
	10 CM	MZ/22261	Unit #108	0	Living Room/Kitchen 2	A	Window Sill	Wood	Intact	Natural	1	Negative	0	0.03
		MZ/22261	Unit #108	0	Living Room/Kitchen 2	Α	Window Stop	Wood	Intact	Natural	1	Negative	0	0.03
	12 CM	NZ/22261	Unit #108	0	Living Room/Kitchen 2	C	Door Casing	Wood	Intact	Natural	2.76	Negative	0.01	0.08
	13 CN	NZ/22261	Unit #108	0	Living Room/Kitchen 2	C	Door Jamb	Wood	Intact	Natural	1	Negative	0	0.03
		MZ/22261	Unit #108	0	Living Room/Kitchen 2	C	Door	Wood	Intact	Natural	1	Negative	0	0.03
		NZ/22261	Unit #108	_	Living Room/Kitchen 2	C	Door Threshold	Wood	Intact	Natural	1	Negative	0.01	0.04
		VIZ/22261	Unit #108	_	Living Room/Kitchen 2	В	Door	Wood	Intact	Natural	1	Negative	0	0.02
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Closet Wall

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Window Sill

2121 Ga	rfield Aven	ue South, #10	8 and common a	reas	Date in	rspecte	ed: 5/19/15
					and the second second		

XRF# In	spector/XRF#	Site	Floor Room	Side	Component	Substrate	Condition	Color	DI	Results	PbC	PbC Error
	MZ/22261	Unit #108	0 Child's Bedroom 3	D	Window Stop	Wood	Intact	Natural	1	Negative	0	0.02
35 C	MZ/22261	Unit #108	0 Child's Bedroom 3	Α	Door Casing	Wood	Intact	Natural	1	Negative	0	0.02
	MZ/22261	Unit #108	0 Child's Bedroom 3	Α	Door Jamb	Wood	Intact	Natural	1	Negative	0	0.02
	MZ/22261	Unit #108	0 Child's Bedroom 3	Α	Door	Wood	Intact	Natural	1	Negative	0	0.02
	MZ/22261	Unit #108	0 Child's Bedroom 3	Α	Door	Wood	Intact	Natural	1	Negative	0	0.03
	MZ/22261	Unit #108	0 Child's Bedroom 3	A	Baseboard	Wood	Intact	Natural	1	Negative	0	0.02
	MZ/22261	Unit #108	0 Child's Bedroom 3	D	Blinds	Vinyl	Intact	White	1	Negative	0	0.02
41 C	MZ/22261	Unit #108	0 Child's Bedroom 3		Floor	Carpet	Intact	Multi	1	Negative	0	0.02
	MZ/22261	Unit #108	0 Child's Bedroom 3		Ceiling	Drywall	Intact	Beige	1	Null	0	0.02
43 C	MZ/22261	Unit #108	0 Child's Bedroom 3		Ceiling	Drywall	Intact	Beige	1	Null	0	0.02
	MZ/22261	Unit #108	0 Child's Bedroom 3		Ceiling	Drywall	Intact	Beige	1	Negative	0	0.02
	MZ/22261	Unit #108	0 Child's Bedroom 3	В	Closet Wall	Drywall	Intact	Beige	1	Negative	0	0.02
	MZ/22261	Unit #108	0 Child's Bedroom 3	В	Closet Shelf	Wood	Intact	Beige	1	Negative	0	0.03
	MZ/22261	Unit #108	0 Child's Bedroom 3		Bed	Wood	Intact	White	1	Negative	0	0.02
-	MZ/22261	Unit #108	0 Child's Bedroom 3		Bedside Cabinet	Wood	Intact	White	1	Negative	0	0.02
	MZ/22261	Unit #108	0 Bathroom 4	A	Wall	Drywall	Intact	White	1	Negative	0	0.02
50 C	MZ/22261	Unit #108	0 Bathroom 4	В	Wall	Drywall	Intact	White	1	Negative	0	0.02
	MZ/22261	Unit #108	0 Bathroom 4	С	Wall	Drywall	Intact	White	1	Negative	0	0.02
-	MZ/22261	Unit #108	0 Bathroom 4	D	Wall	Drywall	Intact	White	1	Negative	0	0.02
	MZ/22261	Unit #108	0 Bathroom 4	A	Wall	Ceramic	Intact	White	1.84	Positive	7.3	5.4
	MZ/22261	Unit #108	0 Bathroom 4	В	Wall	Ceramic	Intact	White	1.84	Positive	7.3	5.4
	MZ/22261	Unit #108	0 Bathroom 4	С	Wall	Ceramic	Intact	White	1.75	Positive	6.5	4.6
- 56 C	MZ/22261	Unit #108	0 Bathroom 4	D	Wall	Ceramic	Intact	White	3.12	Negative	0.06	0.28
57 0	MZ/22261	Unit #108	0 Bathroom 4	D	Wall	Ceramic	Intact	White	1	Negative	0.02	0.07
58 0	MZ/22261	Unit #108	0 Bathroom 4	D	Wall	Ceramic	Intact	White	1	Negative	0.01	0.07
59 0	MZ/22261	Unit #108	0 Bathroom 4	D.	Wall	Ceramic	Intact	White	5.35	Negative	0.14	0.57
60 0	MZ/22261	Unit #108	0 Bathroom 4		Ceiling	Drywall	Intact	Beige	1	Negative	0	0.02
61 0	MZ/22261	Unit #108	0 Bathroom 4		Floor	Ceramic	Intact	White	1	Negative	0.01	0.04
62 0	MZ/22261	Unit #108	0 Bathroom 4	В	Door Casing	Wood	Intact	Natural	1.05	Negative	0	0.04
	MZ/22261	Unit #108	0 Bathroom 4	В	Door Jamb	Wood	intact	Natural	1	Negative	0	0.02
-	MZ/22261	Unit #108	0 Bathroom 4	В	Door	Wood	Intact	Natural	2.87	Negative	0.01	0.07
	MZ/22261	Unit #108	0 Bathroom 4	C	Register	Metal	Intact	White	1	Negative	0	0.02
	MZ/22261	Unit #108	0 Bathroom 4	С	Cabinet	Wood	Intact	Natural	1.13	Negative	0	0.04

2121 Garfield Avenue South, #108 and common areas

Date inspected: 5/1	19/15
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XRF # Inspector/XRF#	Site	Floor	Room	Side	Component	Substrate	Condition	Color	DI	Results	The second second	PbC Error
67 CMZ/22261	Unit #108	0	Master Bedroom 5	A	Wall	Drywall	Intact	Beige	1	Negative	0	0.02
68 CMZ/22261	Unit #108	0	Master Bedroom 5	В	Wall	Drywall	Intact	Beige	1	Negative	0	0.02
69 CMZ/22261	Unit #108		Master Bedroom 5	C	Wall	Drywall	Intact	Beige	2.99	Negative	0.01	0.05
70 CMZ/22261	Unit #108	0	Master Bedroom 5	D	Wall	Drywall	Intact	Beige	1	Negative	0	0.02
71 CMZ/22261	Unit #108	0	Master Bedroom 5	A	Window Sill	Drywall	Intact	Beige	1	Negative	0.01	0.04
72 CMZ/22261	Unit #108	0	Master Bedroom 5	A	Window Sill	Wood	Intact	Natural	1	Negative	0	0.02
73 CMZ/22261	Unit #108	0	Master Bedroom 5	A	Window Stop	Wood	Intact	Natural	1	Negative	0	0.03
74 CMZ/22261	Unit #108	0	Master Bedroom 5	С	Door Casing	Wood	Intact	Natural	1	Negative	0	0.02
75 CMZ/22261	Unit #108		Master Bedroom 5	C	Door Jamb	Wood	Intact	Natural	1.42	Negative	0.01	0.05
76 CMZ/22261	Unit #108	. 0	Master Bedroom 5	C	Door	Wood	Intact	Natural	1	Negative	0	0.02
77 CMZ/22261	Unit #108	(Master Bedroom 5	C	Door	Wood	Intact	Natural	1	Negative	0	0.02
78 CMZ/22261	Unit #108	(Master Bedroom 5	В	Baseboard	Wood	Intact	Natural	1	Negative	0	0.02
79 CMZ/22261	Unit #108	-	Master Bedroom 5		Floor	Carpet	Intact	Multi	1	Negative	0	0.02
80 CMZ/22261	Unit #108	- (Master Bedroom 5		Ceiling	Drywall	Intact	Beige	1	Negative	0	0.02
81 CMZ/22261	Unit #108		Master Bedroom 5	В	Closet Wall	Drywall	Intact	Beige	1	Negative	0	0.02
82 CMZ/22261	Unit #108	(Master Bedroom 5	Α	Register	Metal	Intact	White	1	Negative	0	0.02
83 CMZ/22261	Unit #108	(Calibrate	1 32	Car State Hands				1.1	Positive	1	0.1
84 CMZ/22261	Unit #108	(Calibrate						1.08	Positive	1	0.1
85 CMZ/22261	Unit #108	(Calibrate						2.85	Positive	1.2	0.1
30 MA/15553	Unit #108	(Shutter Cal.								6.77	0
31 MA/15553	Unit #108	(Calibrate		Tools and the				1.09	Positive	1	0.1
32 MA/15553	Unit #108	() Calibrate						1.11	Positive	1.1	0.1
33 MA/15553	Unit #108	(Calibrate						2.64	Positive	1.1	0.1
34 MA/15553	Common	1st	Front Entry 3	Α	Wall	Brick	Intact	Red	1	Negative	0	
35 MA/15553	Common	1st	Front Entry 3	В	Wall	Plaster	Intact	White	1.71	Null	0.01	0.05
36 MA/15553	Common	1st	Front Entry 3	C	Wall	Plaster	Intact	White	1	Negative	0	0.02
37 MA/15553	Common	1st	Front Entry 3	C	Wall	Brick	Intact	Red	1	Negative	0	0.02
38 MA/15553	Common	1st	Front Entry 3	D	Wall	Brick	Intact	Red	1	Negative	0	0.02
39 MA/15553	Common	1st	Front Entry 3	A	Door Casing	Metal	Intact	Natural	1.48	Negative	0	0.02
40 MA/15553	Соттоп	1st	Front Entry 3	A	Door	Metal	Intact	Natural	1.18	Negative	0	0.02
41 MA/15553	Common	1st	Front Entry 3	A	Door Jamb	Metal	Intact	Natural	1	Negative	0	0.02
42 MA/15553	Common	1st	Front Entry 3	A	Door Threshold	Metal	Intact	Natural	3.2	Negative	0.01	0.96
43 MA/15553	Common	1st	Front Entry 3	С	Baseboard	Wood	Deteriorated	Brown	1	Negative	0	0.03

Date	inspected:	5/19	/15
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KRF#	Inspector/XRF#	Site	Floor	Room	Side	Component	Substrate	Condition	Color	DI	Results	PbC	PbC Error
44	MA/15553	Common	1st	Front Entry 3		Floor	Carpet	Intact	Natural	1	Negative	0	0.02
45	MA/15553	Common	1st	Front Entry 3		Ceiling	Plaster	Intact	White	1	Negative	0	0.02
46	MA/15553	Common	1st	Front Stairs 6	A	Wall	Plaster	Intact	White	1	Negative	0	0.02
47	MA/15553	Common	1st	Front Stairs 6	В	Wall	Plaster	Intact	White	1	Negative	0	0.02
48	MA/15553	Common	1st	Front Stairs 6	C	Wall	Plaster	Intact	White	1	Null	0	0.02
49	MA/15553	Common	1st	Front Stairs 6	C	Wall	Plaster	Intact	White	3.9	Negative	0.01	0.02
50	MA/15553	Common	1st	Front Stairs 6	D	Wall	Plaster	Intact	White	1.12	Negative	0	0.02
51	MA/15553	Common	1st	Front Stairs 6	A	Door Casing	Wood	Intact	Natural	1.48	Negative	0.04	0.1
52	MA/15553	Common	1st	Front Stairs 6	A	Door Jamb	Metal	Intact	Natural	1	Negative	0	0.02
-	MA/15553	Common	1st	Front Stairs 6	A	Door Threshold	Metal	Intact	Natural	5.33	Negative	< LOD	0
_	MA/15553	Common	1st	Front Stairs 6	A	Door	Metal	Intact	Natural	1	Negative	0	0.02
55	MA/15553	Common	1st	Front Stairs 6	D	Baseboard	Wood	Intact	Natural	1	Negative	0	0.02
56	MA/15553	Common	2nd	Front Stairs 6	D	Floor	Carpet	Intact	Natural	1	Negative	0	0.02
57	MA/15553	Common	1.5	Front Stairs 6	D	Hand rail	Metal	Intact	Natural	2.51	Negative	0.03	0.12
58	MA/15553	Common	1.5	Front Stairs 6	D	Stair Tread	Carpet	Intact	Natural	1.68	Negative	0.01	0.05
59	MA/15553	Common	1.5	Front Stairs 6	D	Stair Riser	Carpet	Intact	Natural	1.36	Negative	0	0.02
60	MA/15553	Common	2nd	Front Stairs 6	A	Window Sash Int.	Metal	Intact	Beige	1	Negative	0.01	0.03
61	MA/15553	Common	1st	Front Stairs 6		Ceiling	Plaster	Intact	Beige	1.14	Negative	0	0.02
	MA/15553	Common	1st	Front Stairs 6		Floor	Concrete	Deteriorated	Red	3.3	Negative	0.02	0.04
63	MA/15553	Common	1st	Hall 5	A	Wall	Plaster	Intact	Beige	1.72	Negative	0	0.02
64	MA/15553	Common	1st	Hall 5	В	Wall	Plaster	Intact	Beige	1	Negative	0	0.02
	MA/15553	Common	1st	Hall 5	C	Wall	Plaster	Intact	Beige	1	Negative	0	0.02
	MA/15553	Common	1st	Hall 5	D	Wall	Plaster	Intact	Beige	1.7	Negative	0.01	0.02
-	MA/15553	Common	1st	Hall 5	A	Door Casing	Metal	Intact	Red	1.16	Negative	0.01	0.05
	MA/15553	Common	1st	Hall 5	А	Door Jamb	Metal	Intact	Red	3.01	Negative	0.03	0.14
	MA/15553	Common	1st	Hall 5	A	Door Threshold	Metal	Intact	Gold	2.95	Negative	0.06	0.84
	MA/15553	Common	1st	Hall 5	A	Door	Wood	Intact	Natural	1	Negative	0	0.02
	MA/15553	Common	1st	Hall 5	A	Baseboard	Wood	Intact	Natural	1	Negative	0	0.02
72	MA/15553	Common	1st	Hall 5		Floor	Carpet	Intact	Natural	1.5	Negative	0	0.02
	MA/15553	Common	1st	Hall 5		Ceiling	Plaster	Intact	White	1	Negative	0	0.02
	MA/15553	Common	1st	Rear Stairs 7	A	Wall	Plaster	Intact	White	1	Negative	0	0.02
	MA/15553	Common	1st	Rear Stairs 7	В	Wall	Plaster	Intact	White	1.76	Negative	0	0.02
	MA/15553	Common	1st	Rear Stairs 7	C	Wall	Plaster	Intact	White	1	Negative	0	0.02

2121 Garfield Avenue South, #108 and common areas

Date inspected: 5/19/15

XRF#	Inspector/XRF#	Site	Floor	Room	Side	Component	Substrate	Condition	Color	DI	Results	PbC	PbC Error
77	MA/15553	Common	1st	Rear Stairs 7	D	Wall	Plaster	Intact	White	1.05	Negative	0	0.02
78	MA/15553	Common	1st	Rear Stairs 7	A	Door Casing	Metal	Intact	Red	2.11	Negative	0.03	0.11
79	MA/15553	Common	1st	Rear Stairs 7	A	Door Jamb	Metal	Intact	Red	1.33	Negative	0.01	0.05
80	MA/15553	Common	1st	Rear Stairs 7	A	Door	Wood	Intact	Natural	1	Negative	0	0.02
81	MA/15553	Common	1st	Rear Stairs 7	A	Door Threshold	Metal	Intact	Natural	1	Negative	0	0.02
82	MA/15553	Common	1st	Rear Stairs 7		Floor	Carpet	Intact	Natural	1	Negative	0	0.02
83	MA/15553	Common	2nd	Rear Stairs 7	A	Window Sash Int.	Metal	Intact	Natural	1.23	Negative	0	0.02
84	MA/15553	Common	2nd	Rear Stairs 7	A	Baseboard	Wood	Intact	Natural	3.49	Negative	0.02	0.12
85	MA/15553	Common	1.5	Rear Stairs 7	D	Hand rail	Metal	Intact	Black	1.57	Negative	0.03	0.1
86	MA/15553	Common	1.5	Rear Stairs 7	D	Stair Tread	Carpet	Intact	Natural	1.13	Negative	0.01	0.03
87	MA/15553	Common	1.5	Rear Stairs 7	D	Stair Riser	Carpet	Intact	Natural	1	Negative	0	0.02
88	MA/15553	Common	1st	Rear Stairs 7		Ceiling	Plaster	Intact	White	1.29	Negative	0	0.02
89	MA/15553	Common	1st	Laundry Room 4	A	Wall	Plaster	Intact	White	1.66	Negative	0.01	0.03
90	MA/15553	Common	1st	Laundry Room 4	В	Wall	Plaster	Intact	White	1	Negative	0	0.02
91	MA/15553	Common	1st	Laundry Room 4	C	Wall	Concrete	Intact	White	2.81	Negative	0.01	0.02
92	MA/15553	Common	1st	Laundry Room 4	D	Wall	Concrete	Intact	White	1	Negative	0	0.02
93	MA/15553	Common	1st	Laundry Room 4	C	Window Casing	Wood	Intact	White	1.71	Negative	0	0.02
94	MA/15553	Common	1st	Laundry Room 4	C	Window Sill	Wood	Intact	White	1.03	Negative	0	0.02
95	MA/15553	Common	1st	Laundry Room 4	C	Window Sill	Wood	Intact	White	1	Negative	0	0.03
96	MA/15553	Common	1st	Laundry Room 4	C	Window Sash Int.	Metal	Intact	Natural	1	Negative	0	0.02
97	MA/15553	Common	1st	Laundry Room 4	Α	Door Casing	Wood	Intact	Natural	1.26	Negative	0.01	0.04
98	MA/15553	Common	1st	Laundry Room 4	Α	Door Jamb	Wood	Intact	Natural	1	Negative	0	0.02
99	MA/15553	Common	1st	Laundry Room 4	D	Wall	Drywall	Intact	White	1.78	Negative	0.03	0.09
100	MA/15553	Common	1st	Laundry Room 4	A	Baseboard	Rubber	Intact	White	3.53	Negative	0.03	0.04
101	MA/15553	Common	1st	Laundry Room 4	В	Baseboard	Wood	Intact	Natural	1	Negative	0	0.02
102	MA/15553	Common	1st	Laundry Room 4		Floor	Ceramic	Intact	White	1.82	Positive	1.2	0.2
103	MA/15553	Common	1st	Laundry Room 4		Floor	Ceramic	Intact	White	1.75	Null	1.1	0.1
104	MA/15553	Common	1st	Laundry Room 4		Floor	Ceramic	Intact	White	2.09	Positive	1.3	0.2
105	MA/15553	Common	1st	Laundry Room 4	В	Storage Door	Wood	Intact	Natural	1	Negative	0	0.02
106	MA/15553	Common	1st	Laundry Room 4		Ceiling	Plaster	Intact	White	1.37	Negative	0.01	0.03
107	MA/15553	Common	1st	Exterior 2	Α	Wall	Brick	Intact	Red	1.91	Negative	0.01	0.02
108	MA/15553	Common	1st	Exterior 2	Α	Door Casing	Metal	Intact	Natural	1	Negative	0	0.02
109	MA/15553	Common	1st	Exterior 2	Α	Door	Metal	Intact	Natural	1	Negative	0	0.02

2121 Garfield Avenue South, #108 and common areas

Date inspected: 5/19/15

110	Inspector/XRF#	Site	FIDOR	Room	Side	Component	Substrate	Condition	Color	DI	Results	PbC	PbC Error
-	MA/15553	Common	1st	Exterior 2	A	Door Jamb	Metal	Intact	Natural	1.13	Negative	0	0.02
111	MA/15553	Common	1st	Exterior 2	A	Hand rail	Metal	Intact	Black	1	Negative	0.02	0.06
112	MA/15553	Common	1st	Exterior 2	A	Stair Tread	Concrete	Intact	Natural	1	Negative	0	0.02
113	MA/15553	Common	1st	Exterior 2	A	Stair Riser	Concrete	Intact	Natural	1.02	Negative	0	0.02
114	MA/15553	Common	1st	Exterior 2	A	Window Casing	Metal	Intact	Natural	1	Negative	0	0.02
115	MA/15553	Common	1st	Exterior 2	A	Window Sash Ext.	Metal	Intact	Natural	1	Negative	0	0.02
116	MA/15553	Common	1st	Exterior 2	A	Window Sill	Concrete	Intact	Natural	3.04	Negative	0.03	0.91
117	MA/15553	Common	1st	Exterior 2	В	Wall	Stucco	Intact	Beige	1.03	Negative	0	0.02
118	MA/15553	Common	1st	Exterior 2	C	Wall	Stucco	Intact	Beige	3.65	Negative	0.01	0.04
119	MA/15553	Common	1st	Exterior 2	С	Grate	Metal	Deteriorated	White	1.9	Negative	0.03	0.08
120	MA/15553	Common	1st	Exterior 2	D	Wall	Stucco	Intact	Beige	4.29	Negative	0.03	0.0
121	MA/15553	Unit #108	0	Calibrate	5000	P. Carlotte	1 de 100 de	of the selection		1.07	Positive	1	0.1
122	MA/15553	Unit #108	0	Calibrate						1.08	Positive	1	0.1
123	MA/15553	Unit #108	0	Calibrate						2.66	Null	1.1	0.1
AND DESCRIPTION OF THE PERSON NAMED IN COLUMN 1	MA/15553	Unit #108	0	Calibrate		The state of the s	THE STATE	A PURE N	38 N 8	2.71	Positive	1.2	0.1
											14	100	
te: Th	ne tile surroundir	ng the batht	ub app	ears to be newer tha	n the tile th	nat tested positive.	All tile was i	n good condition	on.				







Appendix E: Visual Assessment Survey

The information below is generic in nature. The specific locations of deteriorated paint, dust and soil hazards can be found in Appendices D & F. Any deviations of items 3-4 below can be found at the end of Appendix D.

1) Area description

Please use the bulleted points below as a guide throughout this report.

- Location of building component can be found on the XRF spreadsheet for each component tested.
- Location of dust can be found on the analytical results in conjunction with the dwelling sketches
- Location of bare soil can be found on the analytical results in conjunction with the dwelling sketches.

2) Deteriorated Paint

is defined in the HUD Lead Safe Housing Rule, 24 CFR 35 as any interior or exterior paint or other coating that is peeling, chipping, chalking or cracking, or any paint or coating located on an interior or exterior surface or fixture that is otherwise damaged or separated from the substrate.

3) Probable cause of deterioration

The following are assumed to be the "probable cause of deterioration" for the components tested unless otherwise specified at the end of the XRF report.

Enterior walls, soffits, fascias, doors, door/window trim, roof, foundations, perch floors, columns, ceilings are due to moisture, ultraviolet light, extreme heat/cold and wind.







Interior components

- Windows and window components including (double hung, crank out and swing windows), floors, and stair surfaces are due to friction.
- Doors, door frames, baseboards, and walls are due to impaction through repeated and sudden force.
- o Ceilings-moisture
- Radiators, window trim, closet walls due to excessive heat and cold, age and normal wear and tear

4) Friction/Impact Surfaces

The following components are friction surfaces unless specifically noted at the end of the XRF report: Windows and window components including (double hung, crank out and swing windows), floors, and stair surfaces

The following components are impact surfaces unless specifically noted at the end of the XRF report: Doors, door frames, baseboards, and walls

5) Visible teeth marks Window sills with visible teeth marks are specifically noted at the end of the XRF report.







Appendix F: Analytical Results

Analytical Laboratory: EMSL Analytical, Inc. 14375 23rd Ave N

Plymouth, MN 55447

Tel: 763-449-4922 AIHA Lab ID: 163162

Dust wipes are collected by Minnesota licensed lead risk assessors and according to HUD guidelines in accordance with the City of Minneapolis Protocol.

A copy of the lead dust and soil sample results are attached. The locations of the samples are indicated on the building sketches by a star (*). The standards for the lead dust wipes are based on the US Environmental Protection Agency Dust Wipe standards. The soil standard is based on the Minnesota Department of Health standard for soil hazards.

The lead dust and soil is considered a lead hazard when it exceeds the applicable standard below.

Floor Wipe (FW) 40 µg/ft²

Window Sill (WS) 250 $\mu g/\hbar^2$

Window Well (WW) 400 µg/ft²

Soil (SS) 100 ppm



Attn: Nathan Olson

Room 414

250 S. 4th Street

EMSL Analytical, Inc.

14375 23rd Avenue North, Minneapolis, Mn 56447 (763) 449-4922 / (763) 449-4924 Phone/Fax

http://www.EMSL.com

Minneapolis Health Department

minneapolislab@emsl.com

EMSL Order:

351502987

CustomerID:

MNHD42

CustomerPO: ProjectID:

435813

Phone: Fax Received:

(612) 673-5874 (612) 673-2635 05/20/15 9:30 AM

Collected:

5/19/2015

CLEARANCE

Minneapolis, MN 55415 Project 2121 Garfield Ave. S., #108

Test Report: Lead in Dust by Flame AAS (SW 846 3050B/7000B)*

Client SampleDescription	Collected Analyzed	Area Sampled	RDL	Lead Concentration
2121-1 351502987-0001	5/19/2015 5/22/2015 Site: Living Room Floor	144 ir²	10 µg/R ²	<10 µg/ñ²
2121-2 351502987-0002	5/19/2015 5/22/2015 Site: Living Room Wind	57 in ² ow SNI	25 µg/tt²	<25 µg/ft²
2121-3 351502987-0003	5/19/2015 5/22/2015 She: Child's Bed Floor	144 in²	10 µg/ft ^e	<10 µg/N²
2121-4 351502987-0004	5/19/2015 5/22/2015 Site: Child's Bad Windo	78.75 in ^s w Sil	18 µg/ft ^a	<18 µg/F
2121-5 351502987-0005	5/19/2015 5/22/2015 Site: Front Stairs Floor	144 in*	10 µg/N²	<10 µg/ff ^t
2121-6 351502987-0006	5/19/2015	33 in² ow Sili	44 µg/ft²	<44 µg/ft²
2121-7 351502987-0007	5/19/2015 5/22/2015 Site: Master Bed Floor	144 in ^a	10 µg/ft²	<10 µg/ft²
2121-8 351502987-0008	5/19/2015 5/22/2015 Sits: Master Bed Windo	67.0625 in ^g ow Sil	21 µg/ft²	<21 µg/ft²
2121-9 351502987-0009	5/19/2015 5/22/2015 Site: Field Blank	n/a	10 µg/wipe	<10 µg/wipe

Rachel Travis, Laboratory Manager or other approved signatory

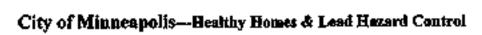
Analysis following Lead in Duerby EMSL SCPI Determination of Engineer origin Lead by FLAA. Reporting Smiths 16 updating, updates, updates update a update a update report relates only to the samples reported above and may not be reproduced, encept in full, without enter apparent by EMSL. EMSL bears no responsibility for samples collection activities (such as volume sampled) or analytical method irritations. Samples received is good condition unless otherwise noted. The lab is not responsible for data reported in update which is dependent on the cross provided by non-tell personnel. The test results constand within this report meet the requirements of NELAC unless otherwise noted. "<" Jesus thanks organized that the onalyte was not detected at or above the reporting limit. Nonexpersonal at uncertainting is available upon request. The CC data associated with the sample results included in this report meet the recovery and precision. requirements established by the AHA-LAP, unless specifically indicated otherwise

Samples analyzed by EMSL Analytical, Inc. Minnespolis, Mr. AMA-LAP, LLC-ELLAP According #163152

initial report from 05/22/2015 15:17:45

Page 1 of 1







Appendix G:

Lead Violations/Recommendations

LEAD VIOLATIONS

*No lead violations were found at the property.



City of Minneapolis---Healthy Homes & Lead Hazard Control



Appendix H: Monitoring Schedule

The following is guidance for property owners to monitor the property for lead hazards into the future. The attached XRF spreadsheet outlines all the locations that lead based paint was found on the property and therefore areas that require ongoing monitoring.

The owner shall conduct an annual visual assessment of all painted surfaces if interim control methods (stabilize and paint) were used to resolve the lead hazards found in this lead risk assessment report. All deteriorated surfaces should be repaired using lead-safe work practices.

Monitoring is not required if lead dust, lead in soil, or lead-based paint was not found.

If no hazards are found, but lead-based paint is found, an owner's visual survey should occur annually and all surfaces with lead-based paint should receive regular maintenance.

If lead dust, lead in soil, and/or lead-based point hazards were found to be present, then choosing to remove all lead-based paint, will require less on-going maintenance.

In general, all painted surfaces should be monitored. A result found to be negative for lead does not necessarily mean that lead is not present; but rather it indicates that the coating is not considered lead paint under a legal definition of 1.0 mg/cm². Therefore all painted surfaces should be maintained in accordance with the Minneapolis Housing Ordinances.

The federal Residential Lead-Based Paint Hazard Reduction Act, 42 U.S.C. 4852d, requires sellers and landlerds of most residential housing built before 1978 to disclose all available records and reports concerning lead-based paint and/or lead-based paint bazards, including the test results contained in this notice, to purchasers and tenants at the time of sale or lease or upon lease renewal. This disclosure must occur even if bazard reduction or abatement has been completed.

Failure to disclose these test results is a violation of the U.S. Department of Housing and Urban Development and the U.S. Environmental Protection Agency regulations at 24 CFR Part 35 and 40CFR Part 745 and can result in a fine of up to \$11,000 per violation. To find out more information about your obligations under federal lead-based paint requirements call 1-800-424-LEAD.

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XRF # Inspector/XRF#	# Site	Floor Room	Side Component	nponent	Substrate	Substrate Condition	Color	D I Results	Pbc	PbC PbC Error
3 CMZ/22261	Unit #108	0 Calibrate						1.07 Positive	1	0.1
4 CMZ/22261	Unit #108	0 Calibrate						1.13 Positive	11	0.1
5 CMZ/22261	Unit #108	0 Calibrate						2.76 Positive	1,1	0.1
53 CMZ/22261	Unit #108	0 Bathroom 4	A Wa		Ceramic	Intact	White	1.84 Positive	7,3	5.4
54 CMZ/22261	Unit #108	0 Bathroom 4	B Wall		Ceramic	Intact	White	1.84 Positive	7.3	5,4
55 CMZ/22261	Unit #108	0 Bathroom 4	C Wa		Ceramic	Intact	White	1,75 Positive	6.5	4.6
83 CMZ/22261	Unit #108	0 Calibrate						1.1 Positive	1	0.1
84 CMZ/22261	Unit #108	0 Calibrate						1.08 Positive	1	0.1
85 CMZ/22261	Unit #108	0 Calibrate						2.85 Positive	1.2	0.1
31 MA/15553	Unit #108	0 Calibrate						1.09 Positive	1	0.1
32 MA/15553	Unit #108	0 Calibrate						1.11 Positive	11	0.1
33 MA/15553	Unit #108	0 Calibrate						2.64 Positive	1.1	0.1
102 MA/15553	Common	1st Laundry Room 4	Floor	or.	Ceramic	Intact	White	1.82 Positive	1.2	0.2
104 MA/15553	Common	1st	Floor	or	Ceramic	Intact	White	2.09 Positive	1.3	0.2
121 MA/15553	Unit #108	0 Calibrate						1.07 Positive	П	0.1
122 MA/15553	Unit #108	0 Calibrate						1.08 Positive	-	0.1
124 MA/15553	Unit #108	O Calibrate						2.71 Positive	1.2	0.1

Date printed: 5/28/15







Appendix I: Niton Performance Characteristics Sheet

Serial numbers of XRFs used by the City of Minneapolis Niton XL 309 U9914096LY

Niton XIi 15553

Niton Xlp 3006AW 23480

Niton Xlp 303A 22261

Performance Characteristic Sheet

EFFECTIVE DATE:

September 24, 2004

EDITION NO.: 1

MANUFACTURER AND MODEL:

Make:

Niton LLC

Tested Model: XLb 300

Source:

¹⁰⁹Cd

Note:

This PCS is also applicable to the equivalent model variations indicated

below, for the Lead-in-Paint K+L variable reading time mode, in the XLi and

XLn series:

XLI 300A, XLI 301A, XLI 302A and XLI 303A. XLp 300A, XLp 304A, XLp 302A and XLp 303A. XLI 700A, XLI 701A, XU 702A and XLI 703A. XLD 700A, XLD 701A, XLD 702A, and XLD 703A.

Note: The XL and XLp versions refer to the shape of the handle part of the instrument. The differences in the model numbers reflect other modes available, in addition to Lead-in-Paint modes. The manufacturer states that specifications for these instruments are identical for the source, detector, and detector electronics relative to the Lead-in-Paint mode.

FIELD OPERATION GUIDANCE

OPERATING PARAMETERS:

Lead-in-Paint K+L variable reading time mode.

XRF CALIBRATION CHECK LIMITS:

0.6 to 1.2 mg/cm² (inclusive)

The calibration of the XRF instrument should be checked using the paint film nearest 1.0 mg/cm² in the NIST Standard Reference Material (SRM) used (e.g., for NIST SRM 2579, use the 1.02 mg/cm2 f/m).

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

BUBSTRATE CORRECTION:

For XRF results using Lead-in-Paint K+L variable reading time mode, substrate correction is not needed for: Brick, Concrete, Drywali, Metal, Plaster, and Wood

INCONCLUSIVE RANGE OR THRESHOLD:

K+L MODE READING DESCRIPTION	SUBSTRATE	THRESHOLD (nig/cm²)
Results not corrected for substrate bias on any	Brick	1.0
eledue	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 Housing ("HUD Guidelines"). Performance parameters shown on this sheet are calculated from the EPAHUD evaluation using prohived building components. Testing was conducted in August 2004 on 133 testing combinations. The instruments that were used to perform the testing field new sources; one instrument's was installed in November 2003 with 40 mCl initial strength, and the other's was installed June 2004 with 40 mCl 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.

SUBSTRATE CORRECTION VALUE COMPUTATION:

Substrate correction is not needed for brick, concrete, drywall, metal, plaster or wood when using Lead-in-Paint K+L variable reading time mode, the normal operating mode for these instruments. If substrate correction is desired, refer to Chapter 7 of the HUO Guidelines for guidance on correcting XRF results for substrate bias.

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 the K+L varieble time mode readings.

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

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

Compute the Retest Tolerance Limit by the following steps:

Determine XRF results for the original end 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 lealing combination.

Square the everage for each testing combination.

Add the ten squared everages 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.

TESTING TIMES:

For the Lead-in-Paint K+L variable reading time mode, the instrument continues to read until it is moved away from the testing surface, terminated by the user, or the instrument software indicates the reading is complete. The following table provides testing time information for this testing mode. The times have been adjusted for source decay, normalized to the initial source strengths as noted above. Source strength and type of substrate will affect actual testing times. At the time of testing, the instruments had source strengths of 26.6 and 36.6 mCi.

	Testing Times Using K+L Reading Mode (Seconds)						
	All Data			Median for laboratory-measured lead levels (mg/cm²)			
Substrate	25 th Percentile	Median	75 th Percentile	Pb < 0.25	0.25 ≤ P b<1.0	1.0 <u>≤</u> Pb	
Wood Orywali	4	11	19	11	15	11	
Metal	4	12	18	9	12	14	
Brick Concrete Plaster	8	16	22	15	18	16	

CLASSIFICATION RESULTS:

XRF results are classified as positive if they are greater than or equal to the threshold, and negative if they are less than the threshold.

DOCUMENTATION:

A document titled Methodology for XRF Performance Characteristic Sheets provides 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.

This XRF Performance Characteristic Sheet was developed by the Midwest Research Institute (MFd) and QuanTech, Inc., under a contract between MRI and the XRF manufacturer. 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 Hezerds in Housing.







Appendix J: Minnesota Department of Health Licensed Lead Risk Assessor License

Risk Assessor	Initials	Risk Assessor License #
Lisa Smestad	LAFS	LR269
Eliza Schell	EMS	LR507
Nathan Olson	МĵО	LR2217
Jennifer Tschida	JAT	LR2312
Alex Vollmer	AIV	LR3509
Fardowza Omar	FAO	LR3236
Michelle Anderson	MEA	LR4761
Hanna Henscheid	HBH	LR4397
Christine McCune-Zierath	CMZ	LR4970