



**COMMUNITY LED
SERVICE DRIVEN
POWERED BY GROWTH**



**Moses Property Report
Eligible CDBG Uses
August 2023**

Table of Contents

Introduction	3
Description of Neighborhood	3
Today	4
Zoning	4
Description of Properties	5
136 State Street	5
140 State Street	6
533 East 2 nd Street	6
Opportunity Zone	7
Community Development Block Grant (CDBG)	7
CDBG National Objectives & Eligible Activities	7
Low- and Moderate-Income Area Benefit	7
Eligible Activities	7
Low- and Moderate-income Limited Clientele	8
Eligible Activities	9
Low- and Moderate-Income Housing	9
Eligible Activities	9
Ineligible Activities:	10
National Objective and Eligibility Matrix	10
Eligible applicants	10
Non-profit	10
For-profit	10
Appendix	11
ShakeRag Historic District Map	11
Flood Plain Map	12
Zoning Map	13
Opportunity Zone Map	14
Assessors Cards	15
Lead-Based Paint Inspection & Risk Assessment	16
Asbestos NESHAP Inspection Reports	17
 City of Bowling Green, Moses Property Report	 2

Introduction

Over the past few years, the City has acquired three properties in the Northeast section of the City commonly referred to as the ShakeRag neighborhood. The City plans to use a portion of their CDBG entitlement funds to rehabilitate the properties to support redevelopment. The properties located at:

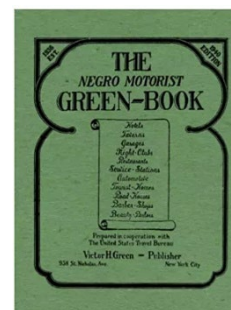
- 136 State Street
- 140 State Street
- 533 East 2nd Street

The purpose of this report is to describe eligible uses for the three properties. The report will also be used as a companion document to the redevelopment RFP that will be opened in September. The RFP will allow for-profit or non-profit organizations to respond with a proposal to redevelop the properties.

Description of Neighborhood

The three properties are in an area of Bowling Green with a rich history. The neighborhood developed around Lee Square, that was donated for public use at the turn of the 19th century by Bowling Green founder Robert Moore. In the 20th century the area was a thriving middle-class neighborhood with a vibrant business district, services, and bungalow style homes.

One of the most prominent and important structures in the district was called the Southern Queen. Located at **140 State Street**, it is one of the featured properties in this report. It was built in 1906 and was typical of an elegant home of the era with a large living room, formal dining room, and dedicated entry area including a Tiffany chandelier and a marble fireplace. The Southern Queen was a residence built and used as a home, as well as a hotel. James Covington built and lived in the home with his wife, their great niece Mrs. O.A. Moses and her family. Mrs. Moses's son Albert remembers during its heyday that the home was a vibrant place built on old U.S. Highway 31. As he describes it, "all the guest rooms were occupied most evenings with travelers driving their fancy cars from far-away places like Florida, Georgia, Louisiana, Alabama, Michigan, Ohio, Illinois, Pennsylvania and New York"¹. The house would also play host to very famous African American singers like Ike and Tina Turner, B.B. King, Ray Charles, and Patti Labelle. During segregation African Americans were not allowed to stay in white hotels, but instead stayed at the Southern Queen when passing through Bowling Green. It was listed as a stop in the Green Book, a popular guide for African American travelers noting safe places to rest and stay on their journeys across America.



Located next door to the Southern Queen is **136 State Street**. The George Washington Carver Center is also located across the street and at the other corner of the intersection is the State Street High School Gymnasium. The gym was built in 1925 and hosted athletic championships for the students who attended State Street High School. Although the school was razed in 1962, it had a long history of academic and athletic success: Notably in 1929 over half of the students went on to college². Down the street is the third featured property, **533 East 2nd street**, a single-family home with embellished ornamentation on the front porch.

¹ Moses, Albert, *Growing up at the Southern Queen*, Self-Published Manuscript, 2005

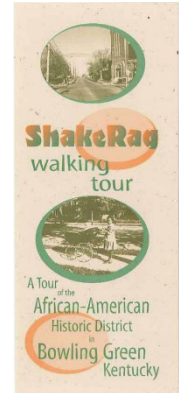
² Bowling Green Area Convention & Visitors Bureau, *Shakerag Historic District*, July 14, 2023, {<https://www.visitbgky.com/shakerag/>}

Today

In 2000, the north end of State Street was placed on the National Register of Historic Places. The ShakeRag Historic District was recognized for its significance to African America history. There is a walking tour of the neighborhood with a brochure and website created by the Bowling Green Area Convention & Visitors Bureau. The area is a mix of residential and commercial buildings. An anchor to the district is The George Washington Carver Center. Set up originally to honor George Washington Carver, a scientist, humanitarian, inventor, and environmentalist, the center started by hosting guest speakers and offering presentations.³ The center continues to host events as well as after school tutoring and can be rented for both indoor and outdoor events.

A prominent business in the area is the ShakeRag Barbershop, a central spot for community news and sharing stories. It is representational of the businesses that used to thrive along State Street. The old State Street High School Gymnasium is also being redeveloped for future business in the area.

This report is the culmination of a three-year process to begin the redevelopment of the ShakeRag area as part of the City's Neighborhood Improvements Program (NIP). In 2021, it started with gathering input from the residents in the ShakeRag neighborhood through a public hearing, stakeholder meetings, as well as post cards sent to each resident for their feedback about what they liked about their neighborhood and their ideas for improvements on both public and private property in the neighborhood. The residents expressed an interest in pedestrian improvements like cross walks and sidewalk maintenance; road improvements like signage and parking; and housing improvements like rehabilitation of vacant properties and preservation of the historic nature of the neighborhood. In 2022, the City negotiated the purchase of the three properties discussed in this report to begin implementation of the NIP. In 2023, the City will publish this report as well as releasing a redevelopment RFP for the three properties.



Revitalization of these properties will create opportunities in the district. The report lists potential uses for each property. There are residential options, either single-family rental or home ownership. However, since two of the properties are along State Street, the previous hub of the district, the properties can also be used for business purposes or community use.

Zoning

The Light Industrial District as defined in [Article 4](#) Zoning Districts is intended to provide areas segregated for industrial use where processes and equipment employed and goods processed are limited to those which are not objectionable by reason of odor, dust, smoke, cinders, gas fumes, noise, vibration, refuse matter or water-carried waste.

Examples include welding; machine shop; tool repair; electric motor repair; repair of scientific or professional instruments; towing/vehicle storage; Vehicle (Class 6 and above) service, repair and body work (that does not include outdoor storage of parts or vehicles); truck stop; general and other contractors; building, heating, plumbing or electrical contractors; exterminator; janitorial/business maintenance services; research/development laboratory.

Activities currently not permitted as listed in [Article 5](#) Use Regulations in the Light Industrial use are:

- Overnight accommodation
- Household living

³ George Washington Carver Center, *What Inspired it All*, July 14, 2023, <https://www.carvercenterbg.com/about> }

- Group living
- Community services

The current properties would be considered non-conforming structures and would be grandfathered into the current zoning. However, the properties could be rezoned for eligible uses. Please see the Zoning map located in the appendix for more details.

Description of Properties

The properties are owned by the City of Bowling Green. The City completed an Asbestos NESHAP Inspection Report and a Lead-Based Paint Inspection & Risk Assessment for each property. Those reports are summarized below. The full reports can be found in the Appendix. The property information below is taken from the assessor card for each property which can also be found in the Appendix.



136 State Street

Property Information:

The 2023 working taxable valuation on the property is \$66,500. The property is currently used as a single family, single story residential structure. It was built in 1896. There are two bedrooms and one bathroom. There is a total of 1,162 sq. ft. of living space. The structure has a gabled roof with two fireplaces. It has aluminum siding with a brick and stone foundation and asphalt shingles. There is no basement. There is no carport or garage. The driveway is gravel. The building’s condition is listed as fair by the assessor.

Asbestos NESHAP Inspection Report Summary:

The site inspection took place on February 13, 2023 by Micro-Analytics. During the site inspection samples were collected. Asbestos containing materials were identified. The full inspection report includes additional details of the inspection as well as the types and qualities of asbestos-containing material. The report is available in the appendix to this report.

Lead-Based Paint Inspection & Risk Assessment:

The site inspection took place on February 24, 2023 by Micro-Analytics. A XRF survey was performed. Lead-based paints (LBP) and lead-based paint hazards were present. The full inspection report includes additional details of the inspection as well as the location of the LBP and LBP Hazards. The report is available in the appendix to this report.



140 State Street

Property Information:

The 2023 working taxable valuation on the property is \$110,000. The property is currently used as a single family, two story residential structure. It was built in 1906. There are eight bedrooms and four bathrooms. There is a total of 4,084 sq. ft. of living space. The structure has a hip roof with one fireplace. It has aluminum siding with a brick and stone foundation and asphalt shingles. There is a cellar. There is a two-car attached carport. The driveway is paved. The building's condition is listed as fair by the assessor.

Asbestos NESHAP Inspection Report Summary:

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The site inspection took place on February 24, 2023 by Micro-Analytics. A XRF survey was performed. Lead-based paints (LBP) and lead-based paint hazards were present. The full inspection report includes additional details of the inspection as well as the location of the LBP and LBP Hazards. The report is available in the appendix to this report.



533 East 2nd Street

Property Information:

The 2023 working taxable valuation on the property is \$72,000. The property is currently used as a single family, one story residential structure. It was built in 1896. There are three bedrooms and one bathroom. There is a total of 1,482 sq. ft. of living space. The structure has a gable roof with two fireplaces. It has a brick and stone foundation and asphalt shingles. There is no basement. There is no garage or carport. There is no driveway. The building condition is listed as poor by the assessor.

Asbestos NESHAP Inspection Report Summary:

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Opportunity Zone

In 2018, Census Tract (102) encompassing the ShakeRag neighborhood was chosen by the City and certified by the U.S. Treasury as an Opportunity Zone. Investors can receive significant federal tax breaks and deferrals for investing in economic development projects within the Opportunity Zone. A map of the Opportunity Zone is in the Appendix of the report. For more information, please see the Bowling Green Opportunity Zone: Prospectus at <https://www.bgky.org/files/hDiz91Bv.pdf>.

Community Development Block Grant (CDBG)

The Community Development Block Grant (CDBG) Program is administered by the Department of Housing and Urban Development (HUD) and they provide annual block grants to communities like Bowling Green to assist them in providing suitable housing, living environment and expanding economic opportunities, principally for low- and moderate-income persons. The program is authorized under Title 1 of the Housing and Community Development Act of 1974, Public Law 93-383, as amended 42 U.S.C. 5301 et seq.

CDBG funding must be used on pre-described eligible activities and meet one of three CDBG national objectives, either slum and blight, urgent need, or serving low-and moderate- income households. The City plans to use a portion of their CDBG grant to fund the redevelopment of the three properties. Below is a description of the eligible activities that can be funded with CDBG funds. The City has elected to use the low- and moderate- income national objective.

CDBG National Objectives & Eligible Activities

At the core of the CDBG program is finding the correct mix of eligible activities and national objectives. Below is a listing of each low-and moderate- income moderate income national objective and how it can be combined with eligible activities to redevelop the properties.

All three properties are in a HUD approved Neighborhood Revitalization Strategy Area (NRSA). The city created the NRSA to provide economic empowerment to the area. The designation allows economic development and public service activities to be exempt from certain HUD requirements and regulations. Those exceptions are noted in the below discussion.

Low- and Moderate-Income Area Benefit

To qualify for meeting the low- and moderate-income area benefit (LMA) the CDBG funded activity must be available to benefit all the residents of an area which is primarily residential and at least 51% of the residents are low- and moderate-income. The benefits of this type of activity are available to all residents in the area regardless of income. As stated previously, the three properties are within a NRSA. Therefore, activities that involve the three properties are considered to meet the LMA national objective.

Eligible Activities

Community Facilities

For community facilities, eligible CDBG activities include all facilities that are either publicly owned or owned by a nonprofit and open to the general public. Examples include:

- A community center
- A museum

- An art center.

A best practice would be for a facility that is not in operation all the time to have a supplemental activity that can be offered to the public such as a community center that has ESL or literacy programs and a museum that offers classes.

Economic Development

For economic development, almost any activity aimed at sustaining or increasing the level of business activity is eligible. All projects must be underwritten. There are two types of economic development activities that can be considered to meet the LMA benefit requirement.

Creating Jobs: Assistance can be provided to a business to create or retain jobs. Since the properties are in a NRSA, any job created can be assumed to meet the LMA benefit requirement. Businesses assisted do not need to track the income of persons that take the offered jobs to be certain they are low- and moderate-income.

When funding economic development activities there is a public benefit standard that must be met. Since the properties are in a NRSA, the aggregate standard of no more than \$35,000 per FTE does not apply. However, the individual standard of no more than \$50,000 per FTE is still required.

The business will use CDBG funds to rehabilitate a property and create or retain jobs. Examples of activities include:

- create a short-term rental like an Air BnB
- a small business.

Providing Goods and Services: Assistance can be provided to a business that provides goods or services to residents of a low-and moderate- income residential area. Funds can be used to improve the building, purchase inventory, or use as working capital. This financial assistance can be distributed as grants, loans, loan guarantees or interest supplements. Examples include:

- a grocery store
- a laundromat
- other services that a community would need.

Low- and Moderate-income Limited Clientele

To qualify for meeting the low- and moderate-income limited clientele (LMC) activity it must be an activity which provides benefits to a specific group of people rather than everyone in an area. At least 51% of the beneficiaries of the activity must be low- and moderate-income persons.

For activities that serve a group presumed by HUD to be principally low- and moderate-income persons, LMC can be used for activities that include a specific pre-designated group and include:

- abused children
- elderly persons
- battered spouses
- homeless persons
- adults meeting Bureau of Census' definition of severely disabled persons
- illiterate adults.

For activities that serve predominately low- and moderate-income persons, LMC can be used for activities that are targeted so that at least 51% of the clientele are low- and moderate-income households. This can also include activities that serve only low- and moderate-income persons.

Eligible Activities

Community Facilities

The public facility or improvement will be used for an activity designed to benefit a pre-designated group (referenced above) that are presumed to be at least 51 percent low- and moderate-income persons. Examples of activities include:

- a senior center only open to seniors for scheduled activities including meals.
- a shelter for those living with special needs like nursing homes, domestic violence shelters, or a group home for the developmentally disabled.

Economic Development

Funds can be used to provide job training or other employment support services as part of an eligible CDBG project for the pre-designated group of LMI clientele.

Low- and Moderate-Income Housing

To qualify for meeting the low- and moderate-income housing (LMH) national objective residential structures must be occupied by low- and moderate-income households upon completion and during the initial occupancy. The residential structures can be either owner- or renter-occupied and can be either one family or multi-unit structures. For rental housing affordable rents must be offered to low- and moderate-income households. Either a non-profit or for-profit organization may be the developer of the property.

Typically, for a multi-unit structure to qualify for the LMH benefit, 51% of the units in each structure assisted must be occupied by low- and moderate-income households. Since the properties are located in a NRSA, meeting the LMH benefit requirement changes and several structures can be combined to calculate that 51% of the units are occupied by low- and moderate-income households.

Eligible Activities

Residential Housing

Examples of activities include:

- rehabilitation for resale to a low- and moderate-income household
- rehabilitation for rental to a low- and moderate-income household(s) at affordable rents
- create upper-story housing located above a business that is rented to low- and moderate-income persons.

Additionally, CDBG funding can be used for:

- Landscaping, driveways, and sidewalks – when incidental to the other rehabilitation on the property
- Rehabilitation that promotes energy efficiency
- Additions to existing structure if it is incidental to the rehabilitation of the property.

Homeownership

Funds can be used to assist low- and moderate-income households to purchase a home. Eligible costs for homeownership include:

- Subsidize interest rates and mortgage principal amounts.
- Pay all reasonable closing costs.

- Pay up to 50% of the down payment required by the mortgagee for the purchase of the home.

Ineligible Activities:

There are certain activities that are not allowed by regulation, or the City is not considering for the properties. These activities include:

- costs of furnishings, or other personal property not an integral structural fixture
- demolition
- creation of secondary housing unit attached to the primary unit.
- installation of luxury items.

National Objective and Eligibility Matrix

Eligible Activity	LMA	LMH	LMC
Community Facilities	X		X
Residential Housing		X	
Homeownership		X	
Economic Development	X		X

Eligible applicants

Non-profit

Non- profit entities are eligible for all types of CDBG funding. Non-profit recipients must own the property prior to completion of the activity. If not, any money earned from the use of the property would be considered program income.

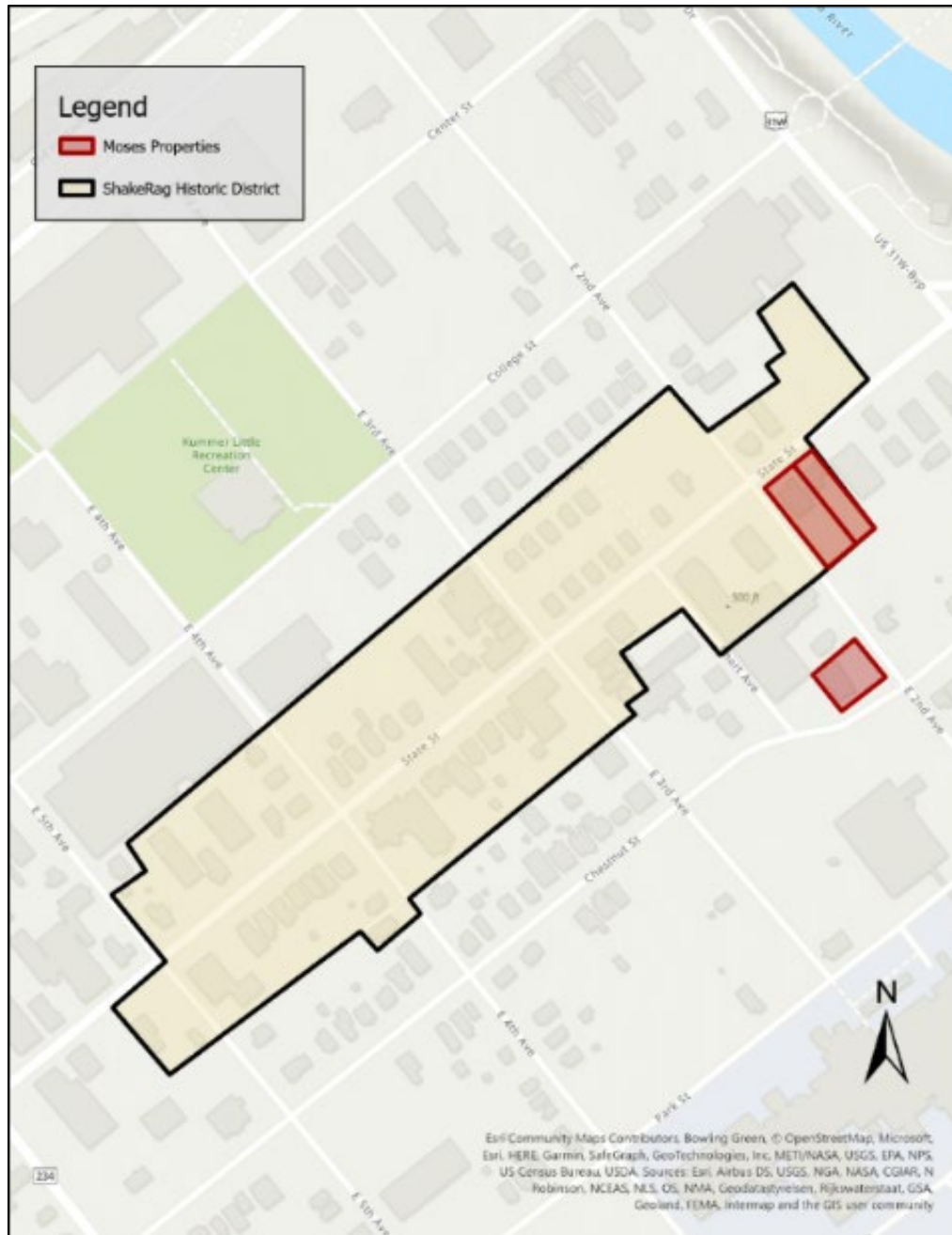
For-profit

They can be direct recipients if they are providing housing to low- and moderate-income households using the LMH national objective and creating jobs for using the LMJ national objective.

Appendix

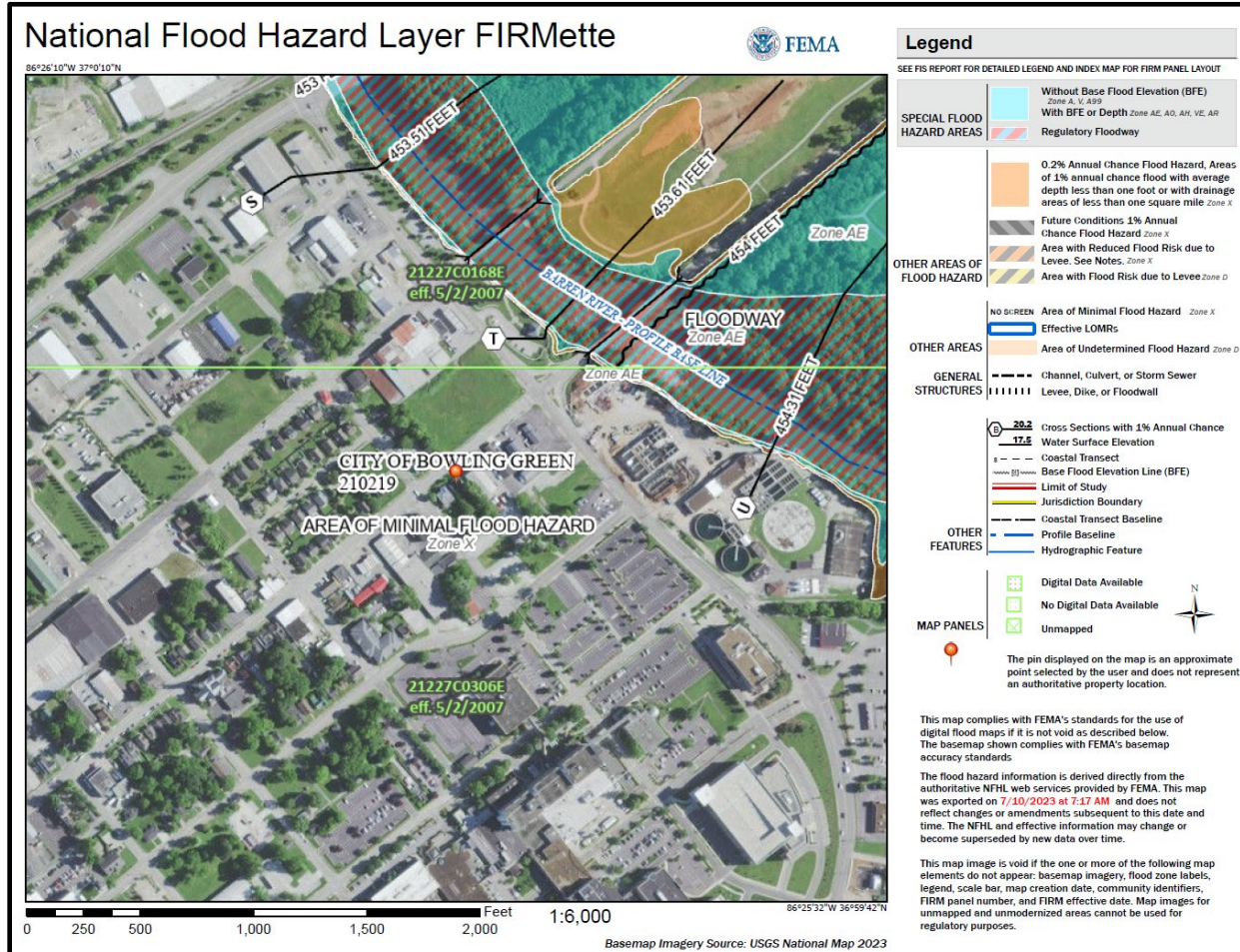
ShakeRag Historic District Map

The map below depicts the boundaries of the Shake Rag historic district and the three properties.



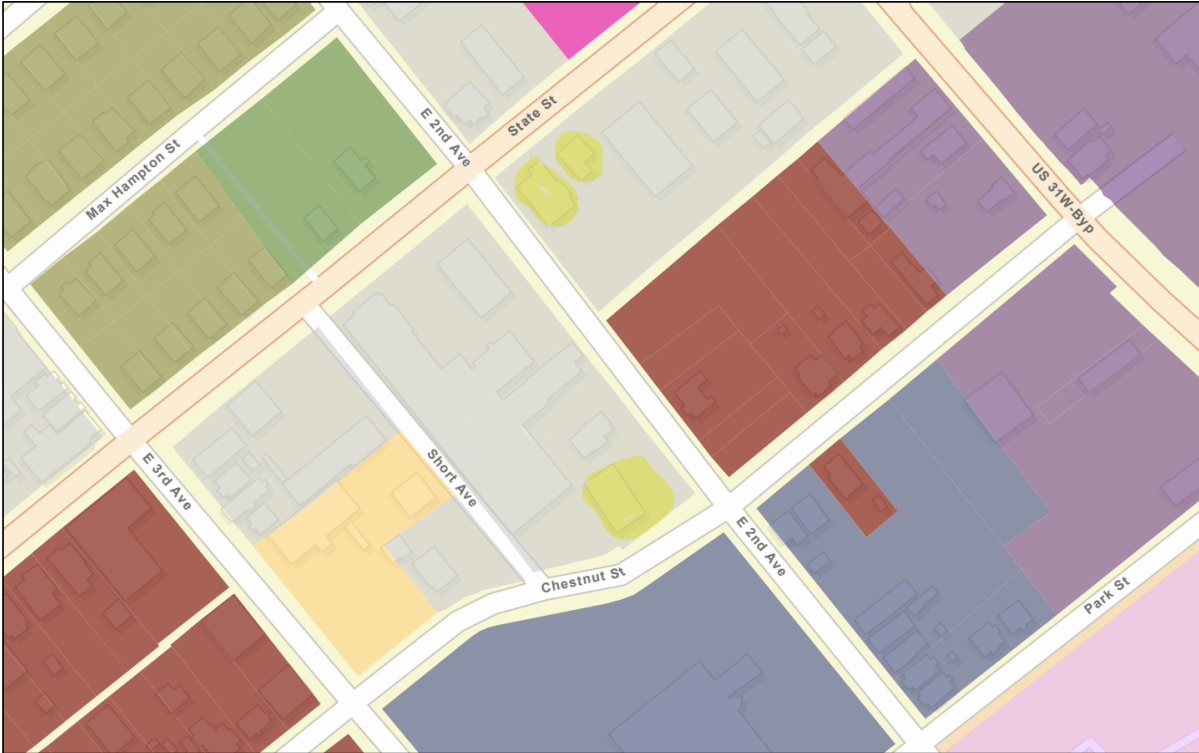
Flood Plain Map

The national flood hazard map below shows that none of the properties are in the Special Flood Hazard area.



Zoning Map

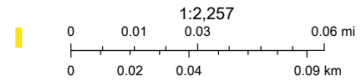
The zoning map for the City of Bowling Green has a mix of business, public, multi-family rental, and professional commercial around the properties. The properties are zoned as Light Industrial. The City of Bowling Green has an interactive GIS zoning mapping system that can be found at [City of Bowling Green, KY \(arcgis.com\)](http://City of Bowling Green, KY (arcgis.com)). The properties below are highlighted in yellow.



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Property Zoning

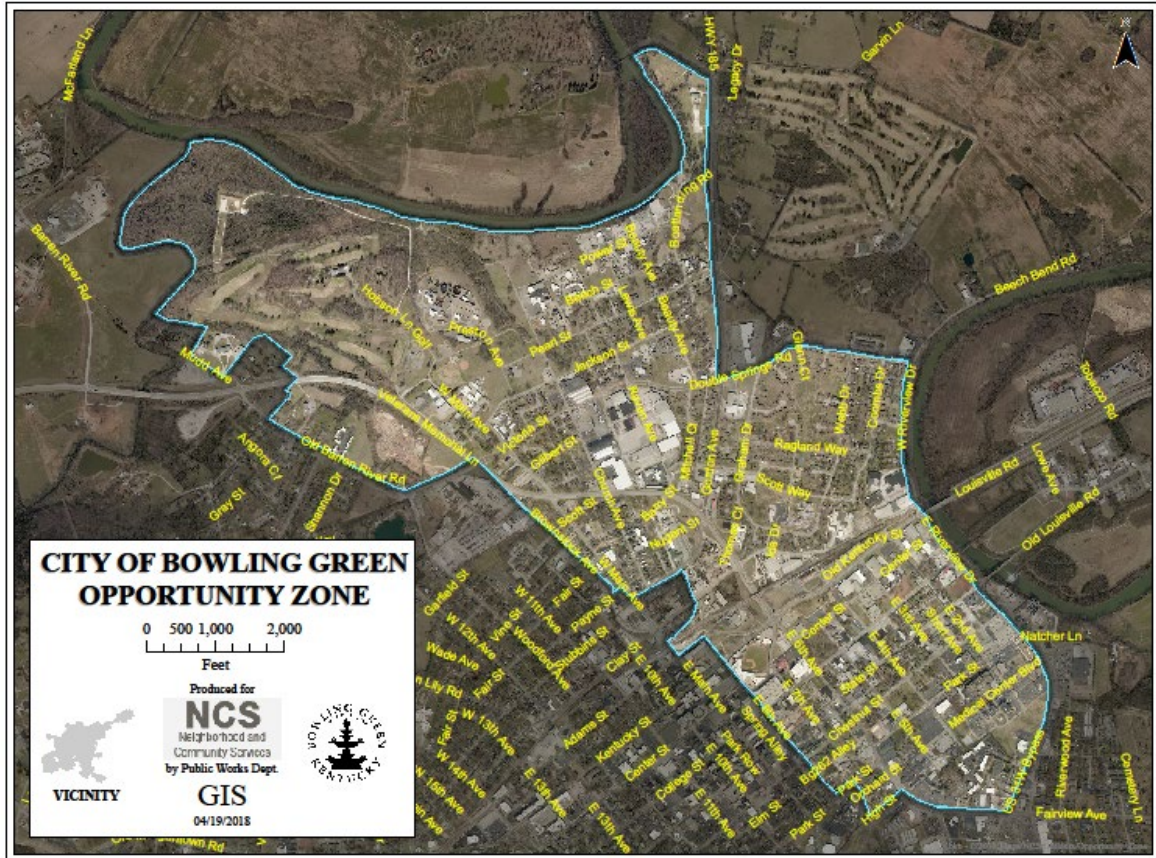
GB	LI	P BE	RM-4
CB BE	HB	OP-C BE	PUD BE
		RS-1D BE	



Esri Community Maps Contributors, Bowling Green, © OpenStreetMap, Microsoft, Esri, HERE, Garmin, SafeGraph, GeoTechnologies, Inc., METI/
 Web AppBuilder for ArcGIS
 Esri, TomTom | Kentucky Legislative Research Commission

Opportunity Zone Map

The three properties are in an Opportunity Zone.



Assessors Cards

Parcel Information

Parcel Number 039A-04-012
Account Number 255750
Location Address 136 STATE ST
Subdivision
Description (Note: Not to be used on legal documents)
Class EXEMPT CITY (94)
Tax District 11 State Tif
Deed Book/Page 1265-65
Acres 0.229



[View Map](#)

Owners

CITY OF BOWLING GREEN KY
 PO BOX 430
 BOWLING GREEN, KY 421020430

Valuation

	2023 Working Values	2022 Certified Values
+ Land Value after Ag Exemption (if applicable)		\$20,000
+ Improvement Value	\$46,500	\$46,500
= Total Taxable Value	\$66,500	\$66,500
- Exemption Value	(\$66,500)	(\$66,500)
= Net Taxable Value	\$0	\$0
Exemption	Homestead: Yes - \$46,350	Homestead: Yes - \$40,500

[Sheriff Tax Bill Info](#)

Improvement Information

Building Number	1	Kitchens	1
Description	Residential	Dining Rooms	0
Residence Type	Single Family	Living Rooms	1
Comm Type		Family Rooms	1
Mobile Home Type		Bedrooms	2
Year Built	1896	Full Baths	1
Effective Age	0	Half Baths	0
Ave. Wall Height	0	Other Rooms	0
Structure	1 Story	Total Rooms	6
Number of Stories	0	Living Sq Ft	1,162
Exterior	Aluminum	Basement Sq Ft	0
Foundation	Brick/Stone	Fireplaces/Water	2 / N
Construction Type	None	Supplemental Heat	None
Construction Quality	Average/Standard	Mobile Home Model	
Building Condition	Fair	Mobile Home Manufacturer	
Roof Type	RY-Gable	MH Skirt Foundation	
Roof Cover	RF-Asphalt Shingles	Heat	Y
Roof Pitch	RP-None	Heat Source	Natural Gas
Basement Type	BT-None	Heat Type	Stove/Space Htr
Basement Finish	None	Air Conditioning	Y
Basement Size	BS-None	AC/Type	Wall Units
Garage/Carport		Special Improvements	N
Garage Size		Fire Alarm	N
Garage Type		Sprinklers	N
Garage Exterior		Porch/Deck	Covered
Width	0	Porch Sq Ft	108
Length	0	Deck Sq Ft	0
Garage Sq Ft	0	Concrete Sq Ft	0
Pool	None	Farm Bldg Type	
Pool Size	0	Value	\$46,500.00
Tennis Courts	None	Driveway	Gravel
		Fence	0

Sales

Sale Date	Sale Price	Deed Book	Deed Page	Grantee	Grantor
8/19/2022	\$248,500	1265	65	CITY OF BOWLING GREEN KY	MOSES DOLORES M & O A (ESTATE)
6/16/1978	\$0	467	227	MOSES DOLORES M & O A	FRESH ZELLA MALLORY

Photos



Archive Cards

039a-04-012 (PDF)

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[Contact Us](#)

Developed by
 **Schneider**
GEOSPATIAL

Parcel Information

Parcel Number 039A-04-015
Account Number 255750
Location Address 140 STATE ST
Subdivision
Description (Note: Not to be used on legal documents)
Class EXEMPT CITY (94)
Tax District 11 State Tif
Deed Book/Page 1265-65
Acres 0.32



[View Map](#)

Owners

CITY OF BOWLING GREEN KY
 PO BOX 430
 BOWLING GREEN, KY 421020430

Valuation

	2023 Working Values	2022 Certified Values
+ Land Value after Ag Exemption (if applicable)		\$20,000
+ Improvement Value	\$90,000	\$90,000
= Total Taxable Value	\$110,000	\$110,000
- Exemption Value	(\$110,000)	(\$110,000)
= Net Taxable Value	\$0	\$0
Exemption	Homestead: Yes - \$46,350	Homestead: Yes - \$40,500

[Sheriff Tax Bill Info](#)

Improvement Information

Building Number	1	Kitchens	1
Description	Residential	Dining Rooms	0
Residence Type	Single Family	Living Rooms	1
Comm Type		Family Rooms	1
Mobile Home Type		Bedrooms	8
Year Built	1906	Full Baths	4
Effective Age	0	Half Baths	0
Ave. Wall Height	0	Other Rooms	0
Structure	2 Story	Total Rooms	15
Number of Stories	0	Living Sq Ft	4,084
Exterior	Aluminum	Basement Sq Ft	0
Foundation	Brick/Stone	Fireplaces/Water	1 / N
Construction Type	None	Supplemental Heat	None
Construction Quality	Average/Standard	Mobile Home Model	
Building Condition	Fair	Mobile Home Manufacturer	
Roof Type	RY-Hip	MH Skirt Foundation	
Roof Cover	RF-Asphalt Shingles	Heat	Y
Roof Pitch	RP-None	Heat Source	Natural Gas
Basement Type	BT-None	Heat Type	Floor Furnace
Basement Finish	None	Air Conditioning	Y
Basement Size	BS-None	AC/Type	Wall Units
Garage/Carport	Carport	Special Improvements	N
Garage Size	2 Car	Fire Alarm	N
Garage Type	Attached Carport	Sprinklers	N
Garage Exterior	None	Porch/Deck	Covered
Width	0	Porch Sq Ft	584
Length	0	Deck Sq Ft	0
Garage Sq Ft	538	Concrete Sq Ft	0
Pool	None	Farm Bldg Type	
Pool Size	0	Value	\$90,000.00
Tennis Courts	None	Driveway	Paved/Asphalt
		Fence	0

Sales

Sale Date	Sale Price	Deed Book	Deed Page	Grantee	Grantor
8/1/2022	\$248,500	1265	65	CITY OF BOWLING GREEN KY	MOSES DOLORES W ET AL (ESTATE)
6/25/1993	\$0	670	832	MOSES DOLORES W	WILLIAMS ASHULA PEARL

Photos



Archive Cards

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[Contact Us](#)

Developed by
 **Schneider**
GEOSPATIAL

Parcel Information

Parcel Number 039A-03-016
Account Number 255750
Location Address 533 2ND AVE E
Subdivision
Description (Note: Not to be used on legal documents)
Class EXEMPT CITY (94)
Tax District 11 State Tif
Deed Book/Page 1265-65
Acres 0.19



[View Map](#)

Owners

CITY OF BOWLING GREEN KY
 PO BOX 430
 BOWLING GREEN, KY 421020430

Valuation

	2023 Working Values	2022 Certified Values
+ Land Value after Ag Exemption (if applicable)	\$20,000	\$20,000
+ Improvement Value	\$52,000	\$52,000
= Total Taxable Value	\$72,000	\$72,000
- Exemption Value	(\$72,000)	(\$72,000)
= Net Taxable Value	\$0	\$0
Exemption	Homestead: Yes - \$46,350	Homestead: Yes - \$40,500

[Sheriff Tax Bill Info](#)

Improvement Information

Building Number	1	Kitchens	1
Description	Residential	Dining Rooms	0
Residence Type	Single Family	Living Rooms	1
Comm Type		Family Rooms	1
Mobile Home Type		Bedrooms	3
Year Built	1896	Full Baths	1
Effective Age	0	Half Baths	0
Ave. Wall Height	0	Other Rooms	0
Structure	1 Story	Total Rooms	7
Number of Stories	0	Living Sq Ft	1,482
Exterior	Combination	Basement Sq Ft	0
Foundation	Brick/Stone	Fireplaces/Water	2 / N
Construction Type	None	Supplemental Heat	None
Construction Quality	Fair/Economy	Mobile Home Model	
Building Condition	Poor	Mobile Home Manufacturer	
Roof Type	RY-Gable	MH Skirt Foundation	
Roof Cover	RF-Asphalt Shingles	Heat	Y
Roof Pitch	RP-None	Heat Source	Natural Gas
Basement Type	BT-None	Heat Type	Radiant/Wall
Basement Finish	None	Air Conditioning	Y
Basement Size	BS-None	AC/Type	Wall Units
Garage/Carport		Special Improvements	N
Garage Size		Fire Alarm	N
Garage Type		Sprinklers	N
Garage Exterior		Porch/Deck	Covered
Width	0	Porch Sq Ft	101
Length	0	Deck Sq Ft	0
Garage Sq Ft	0	Concrete Sq Ft	0
Pool	None	Farm Bldg Type	
Pool Size	0	Value	\$52,000.00
Tennis Courts	None	Driveway	None
		Fence	0

Sales

Sale Date	Sale Price	Deed Book	Deed Page	Grantee	Grantor
9/19/2022	\$248,500	1265	65	CITY OF BOWLING GREEN KY	MOSES ALFRED & MOSES MITCHELL
6/25/1993	\$0	670	823	MOSES DOLORES M	WILLIAMS ASHULA PEARL

Photos



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Developed by
 **Schneider**
GEOSPATIAL

Lead-Based Paint Inspection & Risk Assessment



3310-C Gilmore Industrial Boulevard
Louisville, KY 40213

Phone: (502) 964-8737
Facsimile: (502) 964-1123

February 24, 2023

Attn: Brad Schargorodski
City of Bowling Green
1201 East 15th Street
Bowling Green, Kentucky

**Subject: Lead-Based Paint Inspection & Risk Assessment
For Single family dwelling located at:**

**136 State Street
Bowling Green, Kentucky**

Dear Brad Schargorodski:

Please find enclosed the lead-based paint inspection & risk assessment report for the single-family dwelling located at 136 State Street, Bowling Green, Kentucky. The XRF survey was performed within current acceptable industrial guidelines- Housing and Urban Development (HUD) guidelines Chapter 7 (Revised 2012) and Kentucky Regulations. Lead-based Paint Hazards refer to deteriorated lead-based paints, chewable surfaces, friction surfaces, impact surfaces or contaminated dust or soil above Louisville-Metro, Kentucky or Federal standards.

Micro-Analytics, Inc. conducted the lead-based paint inspection on February 24, 2023. The results of the inspection indicate that lead-based paints (LBP) and lead-based paint hazards are present. The location of LBP and LBP Hazards are summarized in Table 1 and 2 (attached). Columns have been added to Table 2 for you to record how and when the LBP hazards are corrected.

A copy of the report summary must be provided to new lessees (tenants) and purchasers of this property under Federal Law (24 CFR part 35 and 40 CFR part 745) before they become obligated under a lease or sales contract. The complete report must also be provided to new purchasers and it must be made available to new tenants. Landlords (lessors) and sellers are also required to distribute an educational pamphlet and include standard warning language in their lease or sales contract to ensure that parents have the information they need to protect their children from lead-based paint hazards.

If you have any questions or need additional information, please call us at 502-964-8737.

Sincerely,
Micro-Analytics, Inc.

Nick Leow, Lead Hazard Risk Assessor

Table 1 - Location of Lead-Based Paint

Exterior:

Component	Side	Substrate	Color
WALL (SIDING)	ABCD	METAL*	WHITE
BUILDING SOFFIT	ABCD	METAL*	WHITE
ORIGINAL WOOD WINDOW COMPONENTS	ABCD	WOOD	WHITE
PORCH CEILING, HEADER & SUPPORTS	A	WOOD	WHITE

(*) assume lead-based paint on surfaces under metal/vinyl.

Interior:

Room Equivalent	Component	Side	Substrate	Color
HALL	BASEBOARD	ABCD	WOOD	WHITE
HALL	DOOR CASING	B, C & D	WOOD	WHITE/GREEN
LIVING ROOM	BASEBOARD	ABCD	WOOD	WHITE
LIVING ROOM	DOOR CASING	B	WOOD	WHITE
LIVING ROOM	WINDOW SASH, CASING & SILL	A	WOOD	WHITE
LIVING ROOM	FIREPLACE	D	WOOD	GREEN
BEDROOM 1	BASEBOARD	ABCD	WOOD	WHITE
BEDROOM 1	DOOR & CASING	C	WOOD	WHITE
BEDROOM 1	CLOSET DOOR & CASING	C	WOOD	WHITE
BEDROOM 1	WINDOW SASH, CASING & SILL	A & B	WOOD	WHITE
BEDROOM 1	FIREPLACE	C	WOOD	GREEN
BEDROOM 2	BASEBOARD	ABCD	WOOD	WHITE
BEDROOM 2	DOOR & CASING	A & D	WOOD	WHITE
BEDROOM 2	WINDOW CASING	B & C	WOOD	WHITE

Table 2 - Locations of surfaces with lead-based paint hazards:

Type of Hazard	Location		Side	Method used to Control Hazard	Date Control Implemented
DETERIORATED PAINT	EXTERIOR	WALL (SIDING)*	ABCD		
DETERIORATED PAINT	EXTERIOR	BUILDING SOFFIT*	ABCD		
DETERIORATED PAINT	EXTERIOR	ORIGINAL WOOD WINDOW COMPONENTS	ABCD		
DETERIORATED PAINT	EXTERIOR	PORCH CEILING, HEADER & SUPPORTS	A		
DETERIORATED PAINT	HALL	BASEBOARD	ABCD		
DETERIORATED PAINT	HALL	DOOR CASING	B, C & D		
DETERIORATED PAINT	LIVING ROOM	BASEBOARD	ABCD		
DETERIORATED PAINT	LIVING ROOM	DOOR CASING	B		
DETERIORATED PAINT	LIVING ROOM	WINDOW SASH, CASING & SILL	A		
DETERIORATED PAINT	BEDROOM 1	BASEBOARD	ABCD		
DETERIORATED PAINT	BEDROOM 1	DOOR & CASING	C		
DETERIORATED PAINT	BEDROOM 1	CLOSET DOOR & CASING	C		
DETERIORATED PAINT	BEDROOM 1	WINDOW SASH, CASING & SILL	A & B		
DETERIORATED PAINT	BEDROOM 2	BASEBOARD	ABCD		
DETERIORATED PAINT	BEDROOM 2	DOOR & CASING	A & D		
DETERIORATED PAINT	BEDROOM 2	WINDOW CASING	B & C		
FRICTION SURFACE	HALL	DOOR CASING	B, C & D		
FRICTION SURFACE	LIVING ROOM	DOOR CASING	B		
FRICTION SURFACE	BEDROOM 1	DOOR & CASING	C		

Type of Hazard	Location	Side	Method used to Control Hazard	Date Control Implemented	Type of Hazard
FRICTION SURFACE	BEDROOM 1	CLOSET DOOR & CASING	C		
FRICTION SURFACE	BEDROOM 2	DOOR & CASING	A & D		
DUST	LIVING ROOM	FLOOR & WINDOWSILL	A		
DUST	KITCHEN	FLOOR			
DUST	BEDROOM 1	WINDOWSILLS, SIDE	A & B		
DUST	BEDROOM 3	FLOOR & WINDOWSILLS	B & C		

*** These components are enclosed with metal or vinyl wraps. These enclosures are not in good condition and represent lead hazards.**

Combination
Lead-Based Paint Inspection
& Risk Assessment Report

for the Single-family dwelling located at:
136 State Street
Bowling Green, Kentucky



Project Number: 72249
February 24, 2023

Prepared For:
City of Bowling Green
1201 East 15th Street
Bowling Green, Kentucky

By:
Nick Leow
Certification Number: KY 41-148
Micro-Analytics, Inc.
3310-C Gilmore Industrial Blvd.
Louisville, KY 40213
(502) 964-8737

Lead-based Paint Inspection & Risk Assessment
136 State Street
Bowling Green, Kentucky

I. INTRODUCTION

Micro-Analytics Inc. was contracted by City of Bowling Green to perform a combination lead-based paint inspection / risk assessment at a single-family dwelling located at 136 State Street in Bowling Green, Kentucky. The dwelling was constructed prior to 1978.

Micro-Analytics, Inc. has no knowledge of any previous lead-based paint testing at this dwelling.

II. LEAD-BASED PAINT INSPECTION

Measurements of lead in paint were made by a Kentucky certified lead-based paint inspector using an XRF analyzer and a protocol based on the 2012 Housing Urban Development (HUD) Guideline inspection procedure. The instrument used was a Niton XLp-300A Lead Paint Detector and Complete Lead Analyzer XRF (Serial #15202). The Niton XLp-300A does not require making substrate corrections, nor have an inconclusive range. As such, no destructive sampling was required on painted surfaces. One XRF reading was made per painted component in each room, approximately in the center of a randomly selected quadrant of the total building component surface area. HUD/EPA Performance Characteristic Sheets included in this report were used to inventory painted surfaces and XRF results.

III. LEAD PAINT INSPECTION RESULTS

XRF Manufacturer:	Niton Corporation
XRF Serial No:	15202
Model No:	XLp-300A
License No:	401-675-20
Operator:	Nick Leow
KY Certification No:	41-148
Inspection Date:	February 24, 2023
Inspection Site:	136 State Street, Bowling Green, Kentucky
Age of Dwelling:	Built prior to 1978

This report was prepared exclusively for City of Bowling Green. Conditions reported are limited to those observed during the inspection / risk assessment performed on February 24, 2023, by Nick Leow, Kentucky Certified Risk Assessor (41-148).

A lead paint inspection is a surface-by-surface investigation of all surfaces with a coating, to determine the presence of lead-based paint or coatings. The lead paint inspection activities identified lead-based paint or coating on the following surfaces:

Exterior:

Component	Side	Substrate	Color
WALL (SIDING)	ABCD	METAL*	WHITE
BUILDING SOFFIT	ABCD	METAL*	WHITE
ORIGINAL WOOD WINDOW COMPONENTS	ABCD	WOOD	WHITE
PORCH CEILING, HEADER & SUPPORTS	A	WOOD	WHITE

(*) assume lead-based paint on surfaces under metal/vinyl.

Interior:

Room Equivalent	Component	Side	Substrate	Color
HALL	BASEBOARD	ABCD	WOOD	WHITE
HALL	DOOR CASING	B, C & D	WOOD	WHITE/GREEN
LIVING ROOM	BASEBOARD	ABCD	WOOD	WHITE
LIVING ROOM	DOOR CASING	B	WOOD	WHITE
LIVING ROOM	WINDOW SASH, CASING & SILL	A	WOOD	WHITE
LIVING ROOM	FIREPLACE	D	WOOD	GREEN
BEDROOM 1	BASEBOARD	ABCD	WOOD	WHITE
BEDROOM 1	DOOR & CASING	C	WOOD	WHITE
BEDROOM 1	CLOSET DOOR & CASING	C	WOOD	WHITE
BEDROOM 1	WINDOW SASH, CASING & SILL	A & B	WOOD	WHITE
BEDROOM 1	FIREPLACE	C	WOOD	GREEN
BEDROOM 2	BASEBOARD	ABCD	WOOD	WHITE
BEDROOM 2	DOOR & CASING	A & D	WOOD	WHITE
BEDROOM 2	WINDOW CASING	B & C	WOOD	WHITE

IV. RISK ASSESSMENT

A risk assessment is designed to determine the existence, nature, severity and location of lead-based paint hazards in or on a residential property and for reporting the findings of the assessment and the options for controlling or abating the hazards that are found. The risk assessment was performed in accordance with selected portions of the HUD Guidelines for the evaluation and Control of Lead-based Paint Hazards in Housing, July 2012, Chapter 5.

The risk assessment included the following:

- Sampling and visually assessing the dwelling and exterior area as part of the lead paint inspection of the property.
- Visually assessment of the dwelling and paint conditions.
- Environmental sampling for dust-lead.
- Environmental sampling for soil-lead.
- Interpreting the laboratory results.
- Evaluation of collected data for the presence or absence of any lead-based paint hazards.
- Final Report that lists any hazards identified, control measures and abatement cost estimates.

V. RISK ASSESSMENT RESULTS

A. Location and Type of Identified Hazards

The building and its paint are in generally poor condition. The risk assessment showed that lead-based paint hazards (as defined by regulating agency standards – Appendix A) exist. The lead-based paint hazards identified below should receive priority attention.

Deteriorated Paint Hazards

Location of deteriorated paint hazards		
Location	Structure	Side
EXTERIOR	WALL (SIDING)*	ABCD
EXTERIOR	BUILDING SOFFIT*	ABCD
EXTERIOR	ORIGINAL WOOD WINDOW COMPONENTS	ABCD
EXTERIOR	PORCH CEILING, HEADER & SUPPORTS	A
HALL	BASEBOARD	ABCD
HALL	DOOR CASING	B, C & D
LIVING ROOM	BASEBOARD	ABCD
LIVING ROOM	DOOR CASING	B
LIVING ROOM	WINDOW SASH, CASING & SILL	A
BEDROOM 1	BASEBOARD	ABCD
BEDROOM 1	DOOR & CASING	C
BEDROOM 1	CLOSET DOOR & CASING	C
BEDROOM 1	WINDOW SASH, CASING & SILL	A & B
BEDROOM 2	BASEBOARD	ABCD
BEDROOM 2	DOOR & CASING	A & D
BEDROOM 2	WINDOW CASING	B & C

*** These components are enclosed with metal or vinyl wraps. These enclosures are not in good condition and represent lead hazards.**

Chewed Surface Hazards

Location of chewed surface hazards		
Location	Structure	Side
	None	

Friction Surface Hazards

Location of friction surface hazards		
Location	Structure	Side
HALL	DOOR CASING	B, C & D
LIVING ROOM	DOOR CASING	B
BEDROOM 1	DOOR & CASING	C
BEDROOM 1	CLOSET DOOR & CASING	C
BEDROOM 2	DOOR & CASING	A & D

Impact Surface Hazards

Location of impact surface hazards		
Location	Structure	Side
None		

Dust-Lead Hazards

Location of dust-lead hazards		
Location	Structure	Side
Living room	Floor & windowsill	A
Kitchen	Floor	
Bedroom 1	Windowsills	A & B
Bedroom 3	Floor & windowsills	B & C

Soil-Lead Hazards

Location of soil-lead hazards	Side
None	

Intact LBP Surfaces Being Disturbed by Renovation or Maintenance

Location of intact LBP surfaces being disturbed		
Location	Structure	Side
UNKNOWN		

B. Location and Type of Lead-Based Painted Surfaces in Intact Condition

Other painted surfaces have been identified as in “intact” condition. These surfaces are not considered to be immediate “hazards”. Lead-Based Painted surfaces in “intact” condition are reported on the Visual Assessment of Lead-Based Paint Form included in Appendix B.

C. Ongoing Monitoring and Re-evaluation

Lead-based paint and lead-based paint hazards have been identified at the dwelling. Re-evaluation guidelines apply to this property.

Ongoing monitoring is necessary in all dwellings in which LBP is known or presumed to be present. At these dwellings, the very real potential exists for LBP hazards to develop. Hazards can develop by means such as, but not limited to: the failure of lead hazard control measures; previously intact LBP becoming deteriorated; dangerous levels of dust lead re-accumulating through friction, impact, and deterioration of paint; or, through the introduction of contaminated exterior dust and soil into the interior of the structure. Ongoing monitoring typically includes two different activities: re-evaluation and annual visual assessments. A re-evaluation is a risk assessment that includes limited soil and dust sampling and a visual evaluation of paint films and any existing lead hazard controls. Re-evaluations are supplemented with visual assessments by the Client, which should be conducted at least once a year, when the Client or its management agent (if the housing is rented in the future) receives complaints from residents about deteriorated paint or other potential lead hazards, when the residence (or if, in the future, the house will have more than one dwelling unit, any unit that turns over or becomes vacant), or when significant damage occurs that could affect the integrity of hazard control treatments (e.g., flooding, vandalism, fire). The visual assessment should cover the dwelling unit (if, in the future, the housing will have more than one dwelling unit, each unit and each common area used by residents), exterior painted surfaces, and ground cover (if control of soil-lead hazards is required or recommended). Visual assessments should confirm that all paint with known or suspected LBP is not deteriorating, that lead hazard control methods have not failed, and that structural problems do not threaten the integrity of any remaining known, presumed or suspected LBP.

The visual assessments do not replace the need for professional re-evaluations by a certified Risk Assessor. The re-evaluation should include:

1. A review of prior reports to determine where lead-based paint and lead-based paint hazards have been found, what controls were done, and when these findings and controls happened;
2. A visual assessment to identify deteriorated paint, failures of previous hazard controls, visible dust and debris, and bare soil;

3. Environmental testing for lead in dust, newly deteriorated paint, and newly bare soil; and

4. A report describing the findings of the re-evaluation, including the location of any lead-based paint hazards, the location of any failures of previous hazard controls, and, as needed, acceptable options for the control of hazards, the repair of previous controls, and modification of monitoring and maintenance practices.

The first re-evaluation should be conducted no later than two years after completion of hazard controls, or, if specific controls or treatments are not conducted, two years from the beginning of ongoing lead-based paint monitoring and maintenance activities. Subsequent re-evaluations should be conducted at intervals of two years, plus or minus 60 days. If two consecutive re-evaluations are conducted two years apart without finding a lead-based paint hazard, re-evaluation may be discontinued.

VI. BUILDING CONDITION FORM

Condition	Yes	No
Roof missing parts of surfaces (tiles, boards, shakes, etc.)		X
Roof has holes or large cracks	X	
Gutters or downspouts broken or missing	X	
Chimney: masonry cracked, bricks loose or broken, out of plumb		X
Exterior or interior walls have large cracks or holes requiring more than routine pointing or painting	X	
Exterior siding has missing boards or shingles		X
Water stains on interior walls or ceilings	X	
Walls or ceilings deteriorated	X	
More than the de minimis amount of paint in a room deteriorated	X	
Two or more windows or doors broken, missing, or boarded up	X	
Porch or steps have major elements broken, missing, or boarded up		X
Foundation has major cracks, missing material, structural leans, or visibly unsound		X
Total number	7	5

If the “Yes” column any checks, the dwelling is usually considered not to be in good condition for the purpose of a risk assessment, and a lead hazard screen is not advisable.

VII. FIELD SAMPLING FORM FOR DUST

Name of Risk Assessor: Nick Leow
Name of Client: City of Bowling Green
Property Address: 136 State Street, Bowling Green, Kentucky
Target dwelling criteria: Random Sampling

Sample Number	Room	Surface Type	Is surface smooth and cleanable?	Area (ft ²)	Results of lab analysis (µg/ft ²)
1	Living room	Floor	Yes	1.00	13.9
2	Living room	Window sill	Yes	0.312	4730
3	Kitchen	Floor	Yes	1.00	88.2
4	Kitchen	Window sill	Yes	0.312	81.8
5	Bedroom 1	Floor	Yes	1.00	5.64
6	Bedroom 1	Window sill	Yes	0.312	6650
7	Bedroom 3	Floor	Yes	1.00	27.2
8	Bedroom 3	Window sill	Yes	0.312	75.0

Standards: 10 µg/ft² (floors)
100 µg/ft² (interior window sills)

VIII. FIELD SAMPLING FORM FOR SOIL

Name of Risk Assessor: Nick Leow

Name of Client: City of Bowling Green

Property Address: 136 State Street, Bowling Green, Kentucky

Sample Number	Location	Bare or Covered	Lab Result (PPM)
09	DRIPLINE SIDE A	BARE	470
10	DRIPLINE SIDE B	BARE	510

Standard: 400 PPM (play areas)
1,200 PPM (rest of the yard)

IX. LEAD HAZARD CONTROLS

The homeowner may select the following forms of lead hazard control, all of the below lead hazard control measures are acceptable based on Federal Regulations and HUD Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing.

A) Lead Based Paint Classified as Intact:

- Re-evaluate lead-based paint surfaces every twelve months in accordance with 24 CFR Part 35.1355.
- Re-evaluation performed every three years by an independent risk assessment firm.
- Abatement (i.e. enclosure, encapsulation, removal or replacement) may be used at any time in lieu of interim controls.

B) Lead Based Paint Classified as Deteriorated:

- Correct all defective lead-based paint surfaces to intact condition. Re-evaluate all painted surfaces every twelve months in accordance with 24 CFR Part 35.1355.
- Corrective actions shall be performed in accordance with both interim Control Measures described in 24 CFR 35.1330 and Safe Work Practices as described in 24 CFR 35.1350.
- Clearance examinations shall be performed when Interim Controls, Paint Stabilization, Standard Treatments, On-going Lead-based Paint maintenance or rehabilitation is conducted in accordance with 24 CFR 35.1340.
- Re-evaluation performed every two years by an independent risk assessment firm.
- Abatement (i.e. enclosure, encapsulation, removal or replacement) may be used at any time in lieu of interim controls.

C) Lead Based Paint Classified as Deteriorated on stair treads and risers:

- Remove loose lead-based paint. Install protective covering on treads and risers.
- Re-evaluate all painted surfaces every twelve months in accordance with 24 CFR Part 35.1355.
- Corrective actions shall be performed in accordance with both interim Control Measures described in 24 CFR 35.1330 and Safe Work Practices as described in 24 CFR 35.1350.
- Clearance examinations shall be performed when Interim Controls, Paint Stabilization, Standard Treatments, On-going Lead-based Paint maintenance or rehabilitation is conducted in accordance with 24 CFR 35.1340.
- Re-evaluation performed every two years by an independent risk assessment firm.
- Abatement (i.e. enclosure, encapsulation, removal or replacement) may be used at any time in lieu of interim controls.

D) Lead Based Paint Classified as Deteriorated on windows:

- Remove loose lead-based paint. Install window glides or channels. Lubricate and re-evaluate every twelve months, in accordance with 24 CFR 35.1355.
- Corrective actions shall be performed in accordance with both interim Control Measures described in 24 CFR 35.1330 and Safe Work Practices as described in 24 CFR 35.1350.
- Clearance examinations shall be performed when Interim Controls, Paint Stabilization, Standard Treatments, On-going Lead-based Paint maintenance or rehabilitation is conducted in accordance with 24 CFR 35.1340.
- Re-evaluation performed every two years by an independent risk assessment firm.
- Abatement (i.e. enclosure, encapsulation, removal or replacement) may be used at any time in lieu of interim controls.

E) Dust-lead hazards on window sills:

- Perform specialized cleaning in accordance with 24 CFR 35.1350 (c).
- Lubricate adjacent friction surfaces (i.e. window sashes).
- Clearance examinations shall be performed when Interim Controls, Paint Stabilization, Standard Treatments, On-going Lead-based Paint maintenance or rehabilitation is conducted in accordance with 24 CFR 35.1340.
- Re-evaluation performed every two years by an independent risk assessment firm.
- Abatement (i.e. enclosure, encapsulation, removal or replacement) may be used at any time in lieu of interim controls.

F) Dust-lead hazards on hard surfaced floors:

Perform specialized cleaning in accordance with 24 CFR 35.1350 (c).

- Lubricate adjacent friction surfaces (i.e. window sashes).
- Correct Lead based Paint Hazards if present.
- Make all bare floors smooth and cleanable.
- Clearance examinations shall be performed when Interim Controls, Paint Stabilization, Standard Treatments, On-going Lead-based Paint maintenance or rehabilitation is conducted in accordance with 24 CFR 35.1340.
- Re-evaluation performed every two years by an independent risk assessment firm.
- Abatement (i.e. enclosure, encapsulation, removal or replacement) may be used at any time in lieu of interim controls.

G) Dust-lead hazards on dwelling carpet floors (Carpet):

- Correct Lead based Paint Hazards if present.
- Lubricate adjacent friction surfaces (i.e. window sashes and door hinges).

- Re-hang doors to prevent friction and impact damage.
- Perform specialized cleaning in accordance with 24 CFR 35.1350 (c).
- Steam-cleaning carpeting.
- Clearance examinations shall be performed when Interim Controls, Paint Stabilization, Standard Treatments, On-going Lead-based Paint maintenance or rehabilitation is conducted in accordance with 24 CFR 35.1340.
- For common areas, install door mats at building entrance.
- Re-evaluation performed every two years by an independent risk assessment firm.
- Abatement (i.e. enclosure, encapsulation, removal or replacement) may be used at any time in lieu of interim controls.

H) Soil-lead hazards of greater than 1200 but less than 5000 PPM in general yard and drip line and less than 400 PPM in play areas:

- Apply an impermanent surface covering which may include grass (seed or sod) or other ground cover (i.e. ivy), artificial turf, bark, mulch and gravel.
- If bark or gravel is selected, apply a covering of at least six to twelve inches deep. These materials should contain less than 50 PPM of lead.
- Re-evaluate all soil conditions every 12 months, in accordance with 24 CFR Part 35.1355.
- Re-evaluation performed every two years by an independent risk assessment firm.
- Abatement (removal and replacement) may be used at any time in lieu of interim controls.

I) Soil-lead hazards greater than or equal to 5000 PPM:

- Abatement is required in accordance with 40 CFR 745.227(e).

Abatement (i.e. enclosure, encapsulation, removal or replacement) may be used at any time in lieu of interim controls.

The term “interim controls” means a set of measures designed to reduce temporarily human exposure or likely exposure to lead-based paint hazards, including specialized cleaning, repairs, maintenance, painting, temporary containment, ongoing monitoring of lead-based paint hazards or potential hazards, and the establishment and operation of management and resident education programs.

The term “abatement” means any set of measures designed to permanently eliminate lead-based paint hazards in accordance with standards established by appropriate Federal agencies.

After any abatement or paint stabilization or cleaning work has been completed, clearance dust samples must be taken to make certain that the dwelling is lead-safe before the family reoccupies the work areas.

X. COST ESTIMATES

**DETERIORATED POSITIVE RESULTS
PAINT STABILIZATION WORKSHEET**

- ◆ Remove all loose surface contaminants - wetting surface to minimize dust as you work
- ◆ Repair any areas of the surface that are not in good condition.
- ◆ De-gloss surfaces to be painted using wet sanding or a de-glossing paint.
- ◆ Prepare surface by using an appropriate cleaning agent before applying new paint
- ◆ Use a primer before applying new paint to all surfaces

Location and Description of Lead-based Paint – Deteriorated	Estimated Cost
Exterior wall siding*, all sides	\$1000.00
Exterior building soffit*, all sides	1000.00
Exterior original wood window components, all sides	2000.00
Exterior porch ceiling, header & supports, side A	1000.00
Hall baseboard, all sides	100.00
Hall door casings, side B, C & D	300.00
Living room baseboard, all sides	200.00
Living room door casing, side B	100.00
Living room window sash, casing & sill, side A	200.00
Bedroom 1 baseboard, all sides	200.00
Bedroom 1 door & casing, side C	200.00
Bedroom 1 closet door & casing, side C	200.00
Bedroom 1 window sash, casing & sill, side A & B	400.00
Bedroom 2 baseboard, all sides	200.00
Bedroom 2 door & casing, side A & D	400.00
Bedroom 2 window casing, side B & C	200.00
Estimated cost for Paint Stabilization and Repainting	\$7700.00

The above cost estimates are for paint stabilization activities to be performed on these components.

***These components are wrapped in metal or vinyl coverings. The coverings are not intact. The cost estimates are for repair to the existing coverings.**

Location and Description of Chewed Surface Hazard	Estimated Costs
None	

Location and Description of Friction Surface Hazard	Estimated Costs
Hall door casing, side B, C & D	\$300.00
Living room door casing, side B	100.00
Bedroom 1 door & casing, side C	200.00
Bedroom 1 closet door & casing, side C	200.00
Bedroom 2 door & casing, side A & D	400.00

Location and Description of Impact Surface Hazard	Estimated Costs
None	

Location and Description of Dust-Lead clean-up areas	Estimated Costs
Living room floor & windowsill, side A	\$100.00
Kitchen floor	50.00
Bedroom 1 windowsills, side A & B	100.00
Bedroom 3 floor	50.00

Location and Description of Soil-Lead Hazards	Estimated Costs
None	

Location and Description of Intact Surfaces Being Disturbed	Estimated Costs
Unknown	

Additional Notes:

1) When maintenance or other work impacts a material, surface coating, substrate, component, or surface and its lead content is not known, those areas and/or items must be presumed to be lead-based paint.

2) During the period of lead hazard control activities, daily clean-up of the work areas should be performed. Accumulation of debris should be prevented. All trash must be disposed of promptly and properly. At the end of each day, time must be reserved for a thorough cleaning of the work area.

The cost above includes labor, worker protection, and site containment and clean up. These are only very rough estimates that may be impacted by multiply factors, such as time of year; time allotted for completion and replacement material expenses.

Please review the above lead hazard control options. Once a decision to perform interim controls, abatement or a combination of both has been decided, Micro-Analytics, Inc. would be pleased to provide a cost estimate for a Lead Hazard Design Plan, Lead Hazard Controls and Clearance.

XI. INACCESSIBLE AREAS

Only readily accessible areas were evaluated. Generally, the following areas were considered inaccessible:

- Original walls, ceiling surfaces or stair components enclosed with wallboard or similar material.
- Locked areas.

XII. CERTIFICATION

The Environmental Inspector certifies to the Client – (Principal Party) as named in the inspection report, and the Inspector and the Client agree that:

1. The Risk Assessor has no present or contemplated future (a) partnership with the Principal Party nor (b) an interest in the property inspected which could adversely affect the Inspector's ability to perform an objective inspection; and neither the employment of the Inspector to conduct the inspection, nor the compensation for it, is contingent on the results of this inspection.
2. The Risk Assessor has no personal interest in or bias with respect to the subject matter of the report or any parties who may be part of a financial transaction involving the property. The conclusions and recommendations of the report are not based in whole or in part upon the race, color, creed, sex, or national origin of any of the principal parties.
3. Any sketch appearing in or attached to the report, or any statement of dimensions, capacities, quantities, or distances, are approximate and are included to assist the reader in visualizing the dwelling.
4. The Risk Assessor is not required to give testimony, or appear in court because of having made the inspection with reference to the property in question, unless arrangements have been previously made therefore.
5. The Risk Assessor assumes that there are no hidden, unapparent, or latent conditions or defects in or on the property, other than those noted on the report or any addendum to the report which the Inspector has included. The Inspector assumes no responsibility for such conditions, or for inspection, engineering or repair which might be required to discover or correct such factors.
6. All contingent and limiting conditions are contained herein (imposed by terms of the inspection assignment or by the undersigned) affecting the conclusions and recommendations contained in the report.
7. This inspection and report has been conducted and prepared in conformity with principals, practices, and standards that are generally accepted throughout the industry.
8. All opinions, conclusions, and recommendations concerning the inspected property that are set forth in the report were prepared by the Risk Assessor whose signature appears on the report. No change of any item in the report shall be made by anyone other than the Inspector, and the Inspector shall have no responsibility for any such unauthorized change.

XIII. CONTINGENT AND LIMITING CONDITIONS

1. The certification of the Risk Assessor appearing in the inspection report is subject to the following conditions and to such other specific and limiting conditions as are set forth by the Inspector in the report:
2. The Inspector assumes no responsibility for matters of a legal nature affecting the property inspected.
3. Information, estimates and opinions furnished to the Inspector, and contained in the report, were obtained from sources considered reliable and are believed to be true and correct. However, the Inspector has made no independent investigation as to such matters and undertakes no responsibility for the accuracy of such items.
4. The Inspection and Risk Assessment report are made by the Risk Assessor solely for the benefit and personal use of the principal party. No disclosure may be made of the inspection report without prior written consent of the Inspector, and the Inspector undertakes no responsibility for harm or damage to any party other than the Principal Party.
5. Neither the inspection report, or any part thereof, nor any copy of the same (including results or recommendations, the identity of the Inspector, professional designations, reference to any professional organization, or firm with which the Inspector is connected), shall be used for any purpose by anyone but the Principal Party. The report shall not be conveyed by anyone to the public through advertising, public relations, news, sales, or other media, without prior written consent and approval of the Inspector.



Nick Leow, Certified Risk Assessor

March 7, 2023

Date of Signature

APPENDIX A

Regulatory Standards for Lead-Based Paint Hazards

Deteriorated Paint Hazards

The following lead levels are used to determine if paint or similar coatings are considered as lead-based paint, as well as a lead-based paint hazard.

The federal and state standard is:

one (1.0) milligram per square centimeter (mg/cm^2), which can be measured by either portable XRF or laboratory analysis, or

five-tenths (0.5) percent by weight, which can only be measured by laboratory analysis.

The Louisville-Metro standard is

0.7 milligram per square centimeter (mg/cm^2), which can be measured by either portable XRF or laboratory analysis, or

thirty five hundredths (0.35) percent by weight, which can only be measured by laboratory analysis.

Chewed Surface Hazards

The federal standard is “an interior or exterior surface painted with lead-based paint that a young child can mouth or chew. Hard metal surfaces and other surfaces that cannot be dented by the bite of a young child are not considered chewable.”

Friction Surface Hazards

The federal standard is “ any lead-based paint on a friction surface that is subject to abrasion and where the lead-dust on the nearest horizontal surface underneath the friction surface equals or exceeds the applicable lead-dust standard.”

Impact Surface Hazard

The federal standard defines an impact surface as a hazard when “there is damaged or otherwise deteriorated lead-based paint on an interior or exterior surface that is subject to damage by repeated sudden force that is caused by impact from a related building component.”

Dust-Lead Hazards

The following lead levels are used to determine a dust-lead hazard in a residential structure or child-occupied facility.

Floors – 10 $\mu\text{g}/\text{ft}^2$ (micrograms per square foot)
Interior Window Sills – 100 $\mu\text{g}/\text{ft}^2$
Window Troughs – 100 $\mu\text{g}/\text{ft}^2$

Soil-Lead Hazards

Federal standards consider soil to be a soil-lead hazard on residential property or child-occupied facility if the lead level is equal to or exceeds the following:

in a play area – 400 PPM (parts per million)
drip line and rest of yard – 1,200 PPM

APPENDIX B

Condition of Lead-Based Paint Form

The HUD regulation defines deteriorated paint as:

“Any interior or exterior paint or other coating that is peeling, chalking, chipping, 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.”

Condition of Lead-Based Paint

Location	Component	Side	Coating Condition	Substrate	Deterioration due to friction or impact ?	Deterioration due to moisture ?	Component has visual bite marks ?
HALL	BASEBOARD	ABCD	DETERIORATED	WOOD	YES	NO	NO
HALL	DOOR CASING	B	DETERIORATED	WOOD	YES	NO	NO
HALL	DOOR CASING	C	DETERIORATED	WOOD	YES	NO	NO
HALL	DOOR CASING	D	DETERIORATED	WOOD	YES	NO	NO
LIVING ROOM	BASEBOARD	ABCD	DETERIORATED	WOOD	YES	NO	NO
LIVING ROOM	DOOR CASING	B	DETERIORATED	WOOD	YES	NO	NO
LIVING ROOM	WINDOW SASH	A	DETERIORATED	WOOD	NO	YES	NO
LIVING ROOM	WINDOW CASING	A	DETERIORATED	WOOD	NO	YES	NO
LIVING ROOM	WINDOW SILL	A	DETERIORATED	WOOD	NO	YES	NO
LIVING ROOM	FIREPLACE	D	INTACT	WOOD	NO	NO	NO
BEDROOM 1	BASEBOARD	ABCD	DETERIORATED	WOOD	YES	NO	NO
BEDROOM 1	DOOR	C	DETERIORATED	WOOD	YES	NO	NO
BEDROOM 1	DOOR CASING	C	DETERIORATED	WOOD	YES	NO	NO
BEDROOM 1	DOOR CLOSET	C	DETERIORATED	WOOD	YES	NO	NO
BEDROOM 1	DOOR CASING CLOSET	C	DETERIORATED	WOOD	YES	NO	NO
BEDROOM 1	WINDOW SASH	A	DETERIORATED	WOOD	NO	YES	NO
BEDROOM 1	WINDOW CASING	A	DETERIORATED	WOOD	NO	YES	NO
BEDROOM 1	WINDOW SILL	A	DETERIORATED	WOOD	NO	YES	NO
BEDROOM 1	WINDOW CASING	B	DETERIORATED	WOOD	NO	YES	NO
BEDROOM 1	WINDOW SILL	B	DETERIORATED	WOOD	NO	YES	NO
BEDROOM 1	FIREPLACE	C	INTACT	WOOD	NO	NO	NO
BEDROOM 2	BASEBOARD	ABCD	DETERIORATED	WOOD	YES	NO	NO
BEDROOM 2	DOOR	A	DETERIORATED	WOOD	YES	NO	NO
BEDROOM 2	DOOR CASING	A	DETERIORATED	WOOD	YES	NO	NO
BEDROOM 2	WINDOW CASING	B	DETERIORATED	WOOD	NO	YES	NO
BEDROOM 2	WINDOW CASING	C	DETERIORATED	WOOD	NO	YES	NO
BEDROOM 2	DOOR	D	DETERIORATED	WOOD	YES	NO	NO
BEDROOM 2	DOOR CASING	D	DETERIORATED	WOOD	YES	NO	NO

EXTERIOR	BUILDING SOFFIT	ABCD	DETERIORATED	METAL*	NO	YES	NO
EXTERIOR	WALL	A	DETERIORATED	METAL*	NO	YES	NO
EXTERIOR	WINDOW SASH	A	DETERIORATED	WOOD	NO	YES	NO
EXTERIOR	WINDOW CASING	A	DETERIORATED	WOOD	NO	YES	NO
EXTERIOR	WINDOW SILL	A	DETERIORATED	WOOD	NO	YES	NO
EXTERIOR	WINDOW TROUGH	A	DETERIORATED	WOOD	NO	YES	NO
EXTERIOR	PORCH CEILING	A	DETERIORATED	WOOD	NO	YES	NO
EXTERIOR	PORCH HEADER	A	DETERIORATED	WOOD	NO	YES	NO
EXTERIOR	PORCH SUPPORTS	A	DETERIORATED	WOOD	NO	YES	NO
EXTERIOR	WALL	B	DETERIORATED	METAL*	NO	YES	NO
EXTERIOR	WINDOW SASH	B	DETERIORATED	WOOD	NO	YES	NO
EXTERIOR	WINDOW SILL	B	DETERIORATED	METAL*	NO	YES	NO
EXTERIOR	WALL	C	DETERIORATED	METAL*	NO	YES	NO
EXTERIOR	WALL	D	DETERIORATED	METAL*	NO	YES	NO

APPENDIX C

XRF RESULTS

Reading No.	Floor	Room	Structure	Side	Condition	Substrate	Color	Lead Concentration
								mg/cm ²
1		CALIBRATION						1.00
2		CALIBRATION						1.00
3		CALIBRATION						1.00
4	1	HALL	WALL	A	DETERIORATED	PLASTER	BROWN	0.04
5	1	HALL	WALL	B	DETERIORATED	PLASTER	BROWN	0.05
6	1	HALL	WALL	C	DETERIORATED	PLASTER	BROWN	0.01
7	1	HALL	WALL	D	DETERIORATED	PLASTER	GREEN	0.00
8	1	HALL	BASEBOARD	ABCD	DETERIORATED	WOOD		9.40
9	1	HALL	DOOR	A	DETERIORATED	METAL	WHITE	0.00
10	1	HALL	DOOR CASING	A	DETERIORATED	WOOD	WHITE	0.00
11	1	HALL	DOOR CASING	B	DETERIORATED	WOOD	GREEN	11.10
12	1	HALL	DOOR CASING	C	DETERIORATED	WOOD	WHITE	9.90
13	1	HALL	DOOR CASING	D	DETERIORATED	WOOD	WHITE	6.50
14	1	LIVING ROOM	WALL	A	DETERIORATED	PLASTER	GREEN	0.00
15	1	LIVING ROOM	WALL	B	DETERIORATED	PLASTER	GREEN	0.00
16	1	LIVING ROOM	WALL	C	DETERIORATED	PLASTER	GREEN	0.00
17	1	LIVING ROOM	WALL	D	DETERIORATED	PLASTER	GREEN	0.00
18	1	LIVING ROOM	CEILING		DETERIORATED	PLASTER	GREEN	0.00
19	1	LIVING ROOM	BASEBOARD	ABCD	DETERIORATED	WOOD	WHITE	4.60
20	1	LIVING ROOM	DOOR CASING	B	DETERIORATED	WOOD	WHITE	7.20
21	1	LIVING ROOM	WINDOW SASH	A	DETERIORATED	WOOD	WHITE	1.60
22	1	LIVING ROOM	WINDOW CASING	A	DETERIORATED	WOOD	WHITE	8.00
23	1	LIVING ROOM	WINDOW SILL	A	DETERIORATED	WOOD	WHITE	4.90
24	1	LIVING ROOM	FIREPLACE	D	INTACT	WOOD	GREEN	9.00
25	1	BEDROOM 1	WALL	A	DETERIORATED	PLASTER	GREEN	0.00
26	1	BEDROOM 1	WALL	B	DETERIORATED	PLASTER	GREEN	0.00
27	1	BEDROOM 1	WALL	C	DETERIORATED	PLASTER	GREEN	0.00
28	1	BEDROOM 1	WALL	D	DETERIORATED	PLASTER	GREEN	0.00
29	1	BEDROOM 1	BASEBOARD	ABCD	DETERIORATED	WOOD	WHITE	10.80
30	1	BEDROOM 1	DOOR	C	DETERIORATED	WOOD	WHITE	6.70
31	1	BEDROOM 1	DOOR CASING	C	DETERIORATED	WOOD	WHITE	8.00
32	1	BEDROOM 1	DOOR CLOSET	C	DETERIORATED	WOOD	WHITE	3.50
33	1	BEDROOM 1	DOOR CASING CLOSET	C	DETERIORATED	WOOD	WHITE	7.90
34	1	BEDROOM 1	WINDOW SASH	A	DETERIORATED	WOOD	WHITE	1.70
35	1	BEDROOM 1	WINDOW CASING	A	DETERIORATED	WOOD	WHITE	10.50
36	1	BEDROOM 1	WINDOW SILL	A	DETERIORATED	WOOD	WHITE	1.60
37	1	BEDROOM 1	WINDOW SASH	B	DETERIORATED	WOOD	WHITE	0.40
38	1	BEDROOM 1	WINDOW CASING	B	DETERIORATED	WOOD	WHITE	11.90
39	1	BEDROOM 1	WINDOW SILL	B	DETERIORATED	WOOD	WHITE	11.60
40	1	BEDROOM 1	FIREPLACE	C	INTACT	WOOD	GREEN	8.70
41	1	BEDROOM 2	WALL	A	DETERIORATED	PLASTER	YELLOW	0.00
42	1	BEDROOM 2	WALL	B	DETERIORATED	PLASTER	YELLOW	0.00

43	1	BEDROOM 2	WALL	C	DETERIORATED	PLASTER	YELLOW	0.00
44	1	BEDROOM 2	WALL	D	DETERIORATED	PLASTER	YELLOW	0.00
45	1	BEDROOM 2	CEILING		DETERIORATED	PLASTER	YELLOW	0.00
46	1	BEDROOM 2	BASEBOARD	ABCD	DETERIORATED	WOOD	WHITE	9.90
47	1	BEDROOM 2	DOOR	A	DETERIORATED	WOOD	WHITE	5.90
48	1	BEDROOM 2	DOOR CASING	A	DETERIORATED	WOOD	WHITE	10.30
49	1	BEDROOM 2	DOOR	C	DETERIORATED	WOOD	YELLOW	0.22
50	1	BEDROOM 2	DOOR CASING	C	DETERIORATED	WOOD	YELLOW	0.50
51	1	BEDROOM 2	WINDOW SASH	B	DETERIORATED	WOOD	WHITE	0.80
52	1	BEDROOM 2	WINDOW CASING	B	DETERIORATED	WOOD	YELLOW	10.00
53	1	BEDROOM 2	WINDOW SILL	B	DETERIORATED	WOOD	YELLOW	0.10
54	1	BEDROOM 2	WINDOW CASING	C	DETERIORATED	WOOD	WHITE	8.70
55	1	BEDROOM 2	WINDOW SILL	C	DETERIORATED	WOOD	WHITE	0.70
56	1	BEDROOM 2	DOOR	D	DETERIORATED	WOOD	WHITE	12.20
57	1	BEDROOM 2	DOOR CASING	D	DETERIORATED	WOOD	YELLOW	14.10
58	1	KITCHEN	WALL	A	DETERIORATED	WOOD	NATURAL	0.00
59	1	KITCHEN	WALL	B	DETERIORATED	WOOD	NATURAL	0.00
60	1	KITCHEN	WALL	C	DETERIORATED	WOOD	NATURAL	0.00
61	1	KITCHEN	WALL	D	DETERIORATED	WOOD	NATURAL	0.00
62	1	KITCHEN	CEILING		DETERIORATED	DRYWALL	WHITE	0.00
63	1	KITCHEN	DOOR	C	INTACT	METAL	WHITE	0.00
64	1	KITCHEN	DOOR CASING	C	DETERIORATED	WOOD	WHITE	0.00
65	1	KITCHEN	WINDOW SASH	D	DETERIORATED	WOOD	NATURAL	0.00
66	1	KITCHEN	WINDOW CASING	D	DETERIORATED	WOOD	NATURAL	0.00
67	1	KITCHEN	WINDOW SILL	D	DETERIORATED	WOOD	NATURAL	0.00
68	1	KITCHEN	CABINETS	CD	DETERIORATED	WOOD	NATURAL	0.00
69	1	BEDROOM 3	WALL	A	DETERIORATED	WOOD	NATURAL	0.00
70	1	BEDROOM 3	WALL	B	DETERIORATED	WOOD	NATURAL	0.00
71	1	BEDROOM 3	WALL	C	DETERIORATED	WOOD	NATURAL	0.00
72	1	BEDROOM 3	WALL	D	DETERIORATED	WOOD	NATURAL	0.00
73	1	BEDROOM 3	CEILING		DETERIORATED	PLASTER	WHITE	0.00
74	1	BEDROOM 3	WINDOW SASH	B	DETERIORATED	WOOD	NATURAL	0.00
75	1	BEDROOM 3	WINDOW CASING	B	DETERIORATED	WOOD	NATURAL	0.00
76	1	BEDROOM 3	WINDOW SILL	B	DETERIORATED	WOOD	NATURAL	0.00
77	1	BEDROOM 3	WINDOW SASH	C	DETERIORATED	WOOD	NATURAL	0.00
78	1	BEDROOM 3	WINDOW CASING	C	DETERIORATED	WOOD	NATURAL	0.00
79	1	BEDROOM 3	WINDOW SILL	C	DETERIORATED	WOOD	NATURAL	0.00
80	1	BATHROOM	WALL	A	DETERIORATED	DRYWALL	GREEN	0.00
81	1	BATHROOM	WALL	B	DETERIORATED	DRYWALL	GREEN	0.00
82	1	BATHROOM	WALL	C	DETERIORATED	DRYWALL	GREEN	0.00
83	1	BATHROOM	WALL	D	DETERIORATED	DRYWALL	GREEN	0.00
84	1	BATHROOM	CEILING		DETERIORATED	PLASTER	WHITE	0.00
85	1	BATHROOM	BASEBOARD	ABCD	DETERIORATED	WOOD	WHITE	0.00
86	1	BATHROOM	DOOR	B	DETERIORATED	WOOD	NATURAL	0.00
87	1	BATHROOM	DOOR CASING	B	DETERIORATED	WOOD	NATURAL	0.00
88	1	BATHROOM	WINDOW SASH	C	DETERIORATED	WOOD	NATURAL	0.00
89	1	BATHROOM	WINDOW CASING	C	DETERIORATED	WOOD	NATURAL	0.00
90	1	BATHROOM	WINDOW SILL	C	DETERIORATED	WOOD	NATURAL	0.00
91	2	ATTIC	WALL	A	DETERIORATED	DRYWALL	GREEN	0.00
92	2	ATTIC	WALL	B	DETERIORATED	DRYWALL	BROWN	0.00

93	2	ATTIC	WALL	C	DETERIORATED	DRYWALL	BROWN	0.00
94	2	ATTIC	WALL	D	DETERIORATED	DRYWALL	PINK	0.00
95	2	ATTIC	WINDOW SASH	D	DETERIORATED	WOOD	WHITE	0.00
96	2	ATTIC	WINDOW CASING	D	DETERIORATED	WOOD	NATURAL	0.00
97	2	ATTIC	WINDOW SILL	D	DETERIORATED	WOOD	NATURAL	0.00
98		EXTERIOR	BUILDING FASCIA	ABCD	DETERIORATED	METAL*	WHITE	0.00
99		EXTERIOR	BUILDING SOFFIT	ABCD	DETERIORATED	METAL*	WHITE	5.50
100		EXTERIOR	WALL	A	DETERIORATED	METAL*	WHITE	2.40
101		EXTERIOR	DOOR	A	DETERIORATED	METAL*	WHITE	0.00
102		EXTERIOR	DOOR JAMB	A	DETERIORATED	WOOD	WHITE	0.00
103		EXTERIOR	WINDOW SASH	A	DETERIORATED	WOOD	WHITE	1.30
104		EXTERIOR	WINDOW CASING	A	DETERIORATED	WOOD	WHITE	6.70
105		EXTERIOR	WINDOW SILL	A	DETERIORATED	WOOD	WHITE	24.90
106		EXTERIOR	WINDOW TROUGH	A	DETERIORATED	WOOD	WHITE	7.20
107		EXTERIOR	PORCH CEILING	A	DETERIORATED	WOOD	WHITE	1.80
108		EXTERIOR	PORCH HEADER	A	DETERIORATED	WOOD	WHITE	3.70
109		EXTERIOR	PORCH SUPPORTS	A	DETERIORATED	WOOD	WHITE	25.20
110		EXTERIOR	WALL	B	DETERIORATED	METAL*	WHITE	1.70
111		EXTERIOR	WINDOW SASH	B	DETERIORATED	WOOD	WHITE	1.20
112		EXTERIOR	WINDOW SILL	B	DETERIORATED	METAL*	WHITE	7.60
113		EXTERIOR	WINDOW TROUGH	B	DETERIORATED	WOOD	WHITE	0.26
114		EXTERIOR	WALL	C	DETERIORATED	METAL*	WHITE	11.50
115		EXTERIOR	DOOR	C	DETERIORATED	METAL*	WHITE	0.00
116		EXTERIOR	WINDOW SASH	C	DETERIORATED	WOOD	WHITE	0.00
117		EXTERIOR	WALL	D	DETERIORATED	METAL*	WHITE	4.10
118		CALIBRATION						1.00
119		CALIBRATION						1.00
120		CALIBRATION						1.00

APPENDIX D

Kentucky Dept. for Public Health, Certifications.





CABINET FOR HEALTH AND FAMILY SERVICES
Department for Public Health

Andy Beshear
Governor

Division of Public Health Protection and Safety
275 East Main Street HS1EB
Frankfort, Kentucky 40621
Phone (502) 564-4537
Fax (502) 564-0885
Website: <http://chfs.kv.gov/dph>

Eric Friedlander
Secretary

Steven J. Stack, MD
Commissioner

4/4/2022

Nicholas Leow 41-148
Micro-Analytics, Inc.
3310-C Gilmore Industrial Blvd.
Louisville, KY 40213

To Whom It May Concern

Enclosed is your identification card. It is being issued pursuant to 902 KAR 48:040. This card is subject to revocation, and/or suspension, and is non-transferable and will become invalid if loaned or given to another person for identification while performing lead-hazard detection and/or abatement activities for the Commonwealth of Kentucky.

This identification card must be carried at all times while performing lead-hazard activities in the State of Kentucky. If there are any corrections needed please call (502) 564-4537.

Note: In revised certification regulation 902 KAR 48:020, if you fail to pass a refresher course and submit your application for recertification at least 30 days prior to the expiration date on your identification card and certificate, you must reapply for certification and retake the third party examination. An applicant who fails to reapply for certification after six (6) months from the date the certification has lapsed shall pass an initial course and reapply through the initial certification process. This will also modify your certification date.


Sincerely,


Jennifer Billingslea





An Equal Opportunity Employer M/F/D

Kentucky Environmental Lead Program
275 East Main Street
Frankfort, KY 40621



Nicholas Leow
Risk Assessor
D.O.B.: 8/21/1978
41-148
8/21/1978
EXP: June 18, 2024

APPENDIX E

Laboratory Analysis, Chain of Custody and Laboratory Accreditations



Environmental Hazards Services, L.L.C.
 7469 Whitepine Rd
 Richmond, VA 23237
 Telephone: 800.347.4010

Lead in Soil Analysis Report

Report Number: 23-02-04837

Client: Micro-Analytics Inc.
 3310-C Gilmore Industrial Blv
 Louisville, KY 40213

Received Date: 02/28/2023
 Analyzed Date: 03/03/2023
 Reported Date: 03/06/2023

Project/Test Address: 136 State St; Bowling Green, Kentucky
 Collection Date: 02/24/2023

Client Number:
 18-2532

Laboratory Results

Fax Number:
 502-964-1123

Lab Sample Number	Client Sample Number	Collection Location	Concentration ppm (ug/g)	Narrative ID
23-02-04837-009	09	DRIPLINE SIDE A	470	
23-02-04837-010	10	DRIPLINE SIDE B	510	

Method: ASTM E-1979-17/EPA SW846 7000B

Reviewed By Authorized Signatory: *Amanda Lowery*
 Amanda Lowery

The Reporting Limit (RL) is 10.0 ug Total Pb. All internal quality control requirements associated with this batch were met, unless otherwise noted.

The condition of the samples analyzed was acceptable upon receipt per laboratory protocol unless otherwise noted on this report. Results represent the analysis of samples submitted by the client. Unless otherwise noted, samples are reported without a dry weight correction. Sample location, description, area, volume, etc., was provided by the client. If the report does not contain the result for a field blank, it is due to the fact that the client did not include a field blank with their samples. EHS sample results do not reflect blank correction. This report shall not be reproduced except in full, without the written consent of Environmental Hazards Services, L.L.C.

ELLAP Accreditation through AIHA LAP, LLC (100420), NY ELAP #11714.

LEGEND ug = microgram ppm = parts per million
 ug/g = micrograms per gram



Environmental Hazards Services, L.L.C.
 7469 Whitepine Rd
 Richmond, VA 23237
 Telephone: 800.347.4010

Lead Dust Wipe Analysis Report

Report Number: 23-02-04837

Client: Micro-Analytics Inc.
 3310-C Gilmore Industrial Blv
 Louisville, KY 40213

Received Date: 02/28/2023
 Analyzed Date: 03/03/2023
 Reported Date: 03/06/2023

Project/Test Address: 136 State St; Bowling Green, Kentucky
 Collection Date: 02/24/2023

Client Number:
 18-2532

Laboratory Results

Fax Number:
 502-964-1123

Lab Sample Number	Client Sample Number	Collection Location	Surface	Total Pb (ug)	Wipe Area (ft ²)	Concentration (ug/ft ²)	Narrative ID
23-02-04837-001	01	LIV	FL	13.9	1.00	13.9	
23-02-04837-002	02	LIV	SL	1480	0.312	4730	
23-02-04837-003	03	KIT	FL	88.2	1.00	88.2	
23-02-04837-004	04	KIT	SL	25.5	0.312	81.8	
23-02-04837-005	05	BED 1	FL	5.64	1.00	5.64	
23-02-04837-006	06	BED 1	SL	2070	0.312	6650	
23-02-04837-007	07	BED 3	FL	27.2	1.00	27.2	
23-02-04837-008	08	BED 3	SL	23.4	0.312	75.0	

Environmental Hazards Services, L.L.C

Client Number: 18-2532

Report Number: 23-02-04837

Project/Test Address: 136 State St; Bowling Green, Kentucky

Lab Sample Number	Client Sample Number	Collection Location	Surface	Total Pb (ug)	Wipe Area (ft ²)	Concentration (ug/ft ²)	Narrative ID
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Method: ASTM E-1979-17/EPA SW846 7000B

Accreditation #:

Reviewed By Authorized Signatory:



Amanda Lowery

The condition of the samples analyzed was acceptable upon receipt per laboratory protocol unless otherwise noted on this report. Results represent the analysis of samples submitted by the client. Sample location, description, area, etc., was provided by the client. Results reported above in ug/ft² are calculated based on area supplied by the client. If the report does not contain the result for a field blank, it is due to the fact that the client did not include a field blank with their samples. These sample results do not reflect blank correction. This report shall not be reproduced except in full, without the written consent of Environmental Hazards Services, L.L.C.

ELLAP Accreditation through AIHA LAP, LLC (100420), NY ELAP #11714.

Legend	ug = microgram	ug/ft ² = micrograms per square foot	Pb = lead
	mL = milliliter	ft ² = square foot	

ENVIRONMENTAL HAZARDS SERVICES, LLC

Lead Chain of Custody Form

Page ___ of ___

Company Name: <u>Micro AnalyTics</u>	Account #: <u>18-2532-S</u>
Company Address: <u>3310-C Guilmore Industrial Blvd</u>	City/State/Zip: <u>Louisville, KY 40213</u>
Phone: <u>502-964-8737</u>	Email: _____
Project Name / Testing Address: <u>136 State St, Bowling Green, Kentucky</u>	
PO Number: <u>72249</u>	Collected By: <u>Harris Hagerthey</u>
Turn-Around Time: <input checked="" type="radio"/> 5 Day <input type="radio"/> 3 Day <input type="radio"/> 2 Day <input type="radio"/> 1 Day <input type="radio"/> Same Day / Weekend - Must Call Ahead	

Do Submitted Dust Wipe Samples Meet ASTM E1792 Requirements? Yes No **NEW YORK CITY Pb DUST WIPE PROJECTS: Please take floor dust wipe samples using a 2 ft² wipe area.**

SAMPLE TYPES				SAMPLE LOCATION ABBREVIATIONS										SURFACE TYPE FOR DUST WIPES			
Dust Wipe	DW	Air	A	Family Room	FR	Front	F	1st FL	1	Bath	BA	Bedroom	BR	Floor	FL	Window Well	WW
Paint Chip	PC	Soil	S	Living Room	LR	Rear	R	2nd FL	2	Dining	DR	Basement	O	Carpet	CP	Window Sill	SL
Composite Soil	CS	Composite Wipe	CW	Den	DN	Left	LT	Right	RT	Kitchen	KT						

LAB NUMBER	Client Sample ID	Collection Date	Sample Type	Collection Location [LR, KT, BA,]	Surface Type	Area		Paint Chip		Air		
						Length X Width (In Inches) [Provide paint chip area only if results are needed in mg/cm ²]	mg/cm ²	% by weight	Total Time [minutes]	Flow Rate [L/min]	Total Volume [Liters]	
1	01	2-24-23	D	Liv	F	12 x 12						
2	02		D	LIV	S	3 x 15						
3	03		D	KIT	F	12 x 12						
4	04		D	KIT	S	3 x 15						
5	05		D	Bed 1	F	12 x 12						
6	06		D	Bed 1	S	3 x 15						
7	07		D	Bed 3	F	12 x 12						
8	08		D	Bed 3	S	3 x 15						
9	09		S	Dripline, side A		X						
10	10		S	Dripline, side B		X						
11						X						
12						X						
13						X						
14						X						

Released By: <u>L.H. Hagerthey</u>	Date: <u>2-27-23</u>	Time: _____
Signature: <u>L.H. Hagerthey</u>		

LAB USE ONLY - BELOW THIS LINE

Received By: Amy Vejar

Signature: _____

Date: 2, 28, 23 Time: 4 02 AM PM

Portal Contact Added

23-02-04837

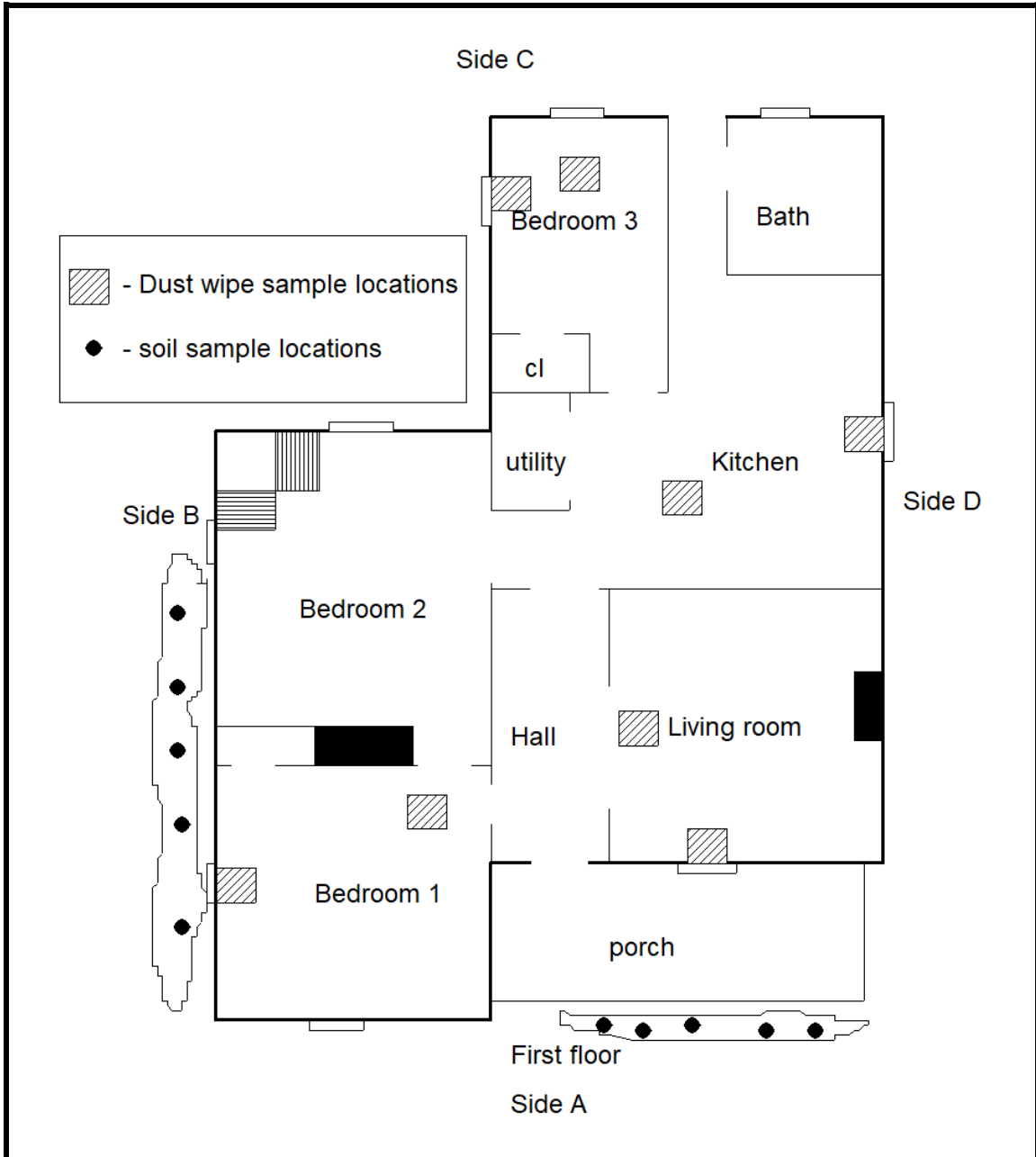


Due Date:
03/07/2023
(Tuesday)
AE

AS

APPENDIX F

Floor Plan Drawings



Micro-Analytics, Inc. 3310-C Gilmore Industrial Blvd. Louisville, KY 40213 (502)964-8737	136 State Street, Bowling Green, Kentucky		
	Project #	Drawn by	Scale
	72249	Harris Hagerthey	NTS
		Date	February 24, 2023



3310-C Gilmore Industrial Boulevard
Louisville, KY 40213

Phone: (502) 964-8737
Facsimile: (502) 964-1123

February 23, 2023

Attn: Brad Schargorodski
City of Bowling Green
1017 College Street
Bowling Green, Kentucky 42101

**Subject: Lead-Based Paint Inspection & Risk Assessment
For single family dwelling located at:**

**140 State Street
Bowling Green, Kentucky**

Dear Brad Schargorodski:

Please find enclosed the lead-based paint inspection & risk assessment report for the single-family dwelling located at 140 State Street, Bowling Green, Kentucky. The XRF survey was performed within current acceptable industrial guidelines- Housing and Urban Development (HUD) guidelines Chapter 7 (Revised 2012) and Kentucky Regulations. Lead-based Paint Hazards refer to deteriorated lead-based paints, chewable surfaces, friction surfaces, impact surfaces or contaminated dust or soil above Louisville-Metro, Kentucky or Federal standards.

Micro-Analytics, Inc. conducted the lead-based paint inspection on February 23, 2023. The results of the inspection indicate that lead-based paints (LBP) and lead-based paint hazards are present. The location of LBP and LBP Hazards are summarized in Table 1 and 2 (attached). Columns have been added to Table 2 for you to record how and when the LBP hazards are corrected.

A copy of the report summary must be provided to new lessees (tenants) and purchasers of this property under Federal Law (24 CFR part 35 and 40 CFR part 745) before they become obligated under a lease or sales contract. The complete report must also be provided to new purchasers and it must be made available to new tenants. Landlords (lessors) and sellers are also required to distribute an educational pamphlet and include standard warning language in their lease or sales contract to ensure that parents have the information they need to protect their children from lead-based paint hazards.

If you have any questions or need additional information, please call us at 502-964-8737.

Sincerely,
Micro-Analytics, Inc.

Nick Leow, Lead Hazard Risk Assessor

Table 1 - Location of Lead-Based Paint

Exterior:

Component	Side	Substrate	Color
WALL (SIDING)	ABCD	METAL*	WHITE
DOOR	B & C	WOOD	WHITE
DOOR CASING & JAMB	A, C & D	WOOD	WHITE
PORCH HEADER & SUPPORTS	A & D	WOOD	WHITE
ORIGINAL WOOD WINDOW COMPONENTS	ABCD	WOOD/METAL*	WHITE
BUILDING SOFFIT	ABCD	METAL*	WHITE

(*) assume lead-based paint on wood surfaces under metal/vinyl

Interior:

Room Equivalent	Component	Side	Substrate	Color
BEDROOM 2	DOOR & DOOR CASING	ABCD	WOOD	TAN
BATHROOM 1	DOOR CASING	A	WOOD	WHITE
UTILITY	WALL	B	WOOD	GREEN
UTILITY	DOOR CASING	A	WOOD	WHITE
UTILITY	WINDOW SASH & CASING	A & B	WOOD	WHITE
UTILITY	CLOSET WALL	A	WOOD	WHITE
BACK HALLWAY	WALL	ACD	PLASTER	PAPER
BATHROOM 3	WINDOW SASH, CASING & SILL	B	WOOD	NATURAL
BEDROOM 3	WINDOW SSH	D	WOOD	NATURAL
BEDROOM 5	FLOOR		WOOD	NATURAL
BEDROOM 8	WALL	A	WOOD	WHITE
BEDROOM 8	WINDOW CASING & SILL	A	WOOD	NATURAL
BEDROOM 8	WINDOW SSH & CASING	C	WOOD	WHITE
BEDROOM 8	FLOOR		WOOD	NATURAL
BATHROOM 4	WINDOW SASH, CASING & SILL	C	WOOD	NATURAL
BACK HALLWAY 2	WALL	A & B	WOOD	WHITE
BACK HALLWAY 2	CEILING		WOOD	WHITE
BACK HALLWAY 2	DOOR CASING	A & B	WOOD	WHITE/TAN

Table 2 - Locations of surfaces with lead-based paint hazards:

Type of Hazard	Location		Side	Method used to Control Hazard	Date Control Implemented
DETERIORATED PAINT	BEDROOM 2	DOOR & DOOR CASING	A		
DETERIORATED PAINT	BATHROOM 1	DOOR CASING	A		
DETERIORATED PAINT	UTILITY	WALL	B		
DETERIORATED PAINT	UTILITY	DOOR CASING	A		
DETERIORATED PAINT	UTILITY	WINDOW SASH & CASING	A & B		
DETERIORATED PAINT	UTILITY	CLOSET WALL	A		
DETERIORATED PAINT	BACK HALLWAY	WALL	ACD		
DETERIORATED PAINT	BATHROOM 3	WINDOW SASH, CASING & SILL	B		
DETERIORATED PAINT	BEDROOM 3	WINDOW SSH	D		
DETERIORATED PAINT	BEDROOM 5	FLOOR			
DETERIORATED PAINT	BEDROOM 8	WALL	A		
DETERIORATED PAINT	BEDROOM 8	WINDOW CASING & SILL	A		
DETERIORATED PAINT	BEDROOM 8	WINDOW SSH & CASING	C		
DETERIORATED PAINT	BEDROOM 8	FLOOR			
DETERIORATED PAINT	BATHROOM 4	WINDOW SASH, CASING & SILL	C		
DETERIORATED PAINT	BACK HALLWAY 2	WALL	A & B		
DETERIORATED PAINT	BACK HALLWAY 2	CEILING			
DETERIORATED PAINT	BACK HALLWAY 2	DOOR CASING	A & B		
DETERIORATED PAINT	EXTERIOR	WALL (SIDING)*	ABCD		

Type of Hazard	Location		Side	Method used to Control Hazard	Date Control Implemented
DETERIORATED PAINT	EXTERIOR	DOOR	B & C		
DETERIORATED PAINT	EXTERIOR	DOOR CASING & JAMB*	A, C & D		
DETERIORATED PAINT	EXTERIOR	PORCH HEADER & SUPPORTS	A & D		
DETERIORATED PAINT	EXTERIOR	ORIGINAL WOOD WINDOW COMPONENTS*	ABCD		
DETERIORATED PAINT	EXTERIOR	BUILDING SOFFIT*	ABCD		
FRICION SURFACE	BEDROOM 2	DOOR & DOOR CASING	A		
FRICION SURFACE	BATHROOM 1	DOOR CASING	A		
FRICION SURFACE	UTILITY	DOOR CASING	A		
FRICION SURFACE	BEDROOM 5	FLOOR			
FRICION SURFACE	BEDROOM 8	FLOOR			
FRICION SURFACE	BACK HALLWAY 2	DOOR CASING	A & B		
FRICION SURFACE	EXTERIOR	DOOR	B & C		
FRICION SURFACE	EXTERIOR	DOOR CASING & JAMB*	A, C & D		
IMPACT SURFACE	BEDROOM 2	DOOR & DOOR CASING	A		
IMPACT SURFACE	BATHROOM 1	DOOR CASING	A		
IMPACT SURFACE	UTILITY	DOOR CASING	A		
IMPACT SURFACE	BACK HALLWAY 2	DOOR CASING	A & B		
IMPACT SURFACE	EXTERIOR	DOOR	B & C		
IMPACT SURFACE	EXTERIOR	DOOR CASING & JAMB*	A, C & D		
DUST	LIVING ROOM	FLOOR & WINDOWSILLS	C & D		

Type of Hazard	Location	Side	Method used to Control Hazard	Date Control Implemented	Type of Hazard
DUST	KITCHEN	FLOOR			
DUST	BEDROOM 3	FLOOR & WINDOWSILL	A, B & D		
DUST	BEDROOM 5	FLOOR & WINDOWSILLS	B		
SOIL	DRIPLINE		D		

*** These components are enclosed with metal or vinyl wraps. These enclosures are not in good condition and represent lead hazards.**

Combination
Lead-Based Paint Inspection
& Risk Assessment Report

for the single family dwelling located at:
140 State Street
Bowling Green, Kentucky



Project Number: 72248
February 23, 2023

Prepared For:
City of Bowling Green
1017 College Street
Bowling Green, Kentucky 42101

By:
Nick Leow
Certification Number: KY 41-148
Micro-Analytics, Inc.
3310-C Gilmore Industrial Blvd.
Louisville, KY 40213
(502) 964-8737

Lead-based Paint Inspection & Risk Assessment
140 State Street
Bowling Green, Kentucky

I. INTRODUCTION

Micro-Analytics Inc. was contracted by City of Bowling Green to perform a combination lead-based paint inspection / risk assessment at a single-family dwelling located at 140 State Street in Bowling Green, Kentucky. The dwelling was constructed prior to 1978.

Micro-Analytics, Inc. has no knowledge of any previous lead-based paint testing at this dwelling.

II. LEAD-BASED PAINT INSPECTION

Measurements of lead in paint were made by a Kentucky certified lead-based paint inspector using an XRF analyzer and a protocol based on the 2012 Housing Urban Development (HUD) Guideline inspection procedure. The instrument used was a Niton XLp-300A Lead Paint Detector and Complete Lead Analyzer XRF (Serial #15202). The Niton XLp-300A does not require making substrate corrections, nor have an inconclusive range. As such, no destructive sampling was required on painted surfaces. One XRF reading was made per painted component in each room, approximately in the center of a randomly selected quadrant of the total building component surface area. HUD/EPA Performance Characteristic Sheets included in this report were used to inventory painted surfaces and XRF results.

III. LEAD PAINT INSPECTION RESULTS

XRF Manufacturer:	Niton Corporation
XRF Serial No:	15202
Model No:	XLp-300A
License No:	401-675-20
Operator:	Nick Leow
KY Certification No:	41-148
Inspection Date:	February 23, 2023
Inspection Site:	140 State Street, Bowling Green, Kentucky
Age of Dwelling:	Built prior to 1978

This report was prepared exclusively for City of Bowling Green. Conditions reported are limited to those observed during the inspection / risk assessment performed on February 23, 2023, by Nick Leow, Kentucky Certified Risk Assessor (41-148).

A lead paint inspection is a surface-by-surface investigation of all surfaces with a coating, to determine the presence of lead-based paint or coatings. The lead paint inspection activities identified lead-based paint or coating on the following surfaces:

Exterior:

Component	Side	Substrate	Color
WALL (SIDING)	ABCD	METAL*	WHITE
DOOR	B & C	WOOD	WHITE
DOOR CASING & JAMB	A, C & D	WOOD	WHITE
PORCH HEADER & SUPPORTS	A & D	WOOD	WHITE
ORIGINAL WOOD WINDOW COMPONENTS	ABCD	WOOD/METAL*	WHITE
BUILDING SOFFIT	ABCD	METAL*	WHITE

(*) assume lead-based paint on wood surfaces under metal/vinyl

Interior:

Room Equivalent	Component	Side	Substrate	Color
BEDROOM 2	DOOR & DOOR CASING	A	WOOD	TAN
BATHROOM 1	DOOR CASING	A	WOOD	WHITE
UTILITY	WALL	B	WOOD	GREEN
UTILITY	DOOR CASING	A	WOOD	WHITE
UTILITY	WINDOW SASH & CASING	A & B	WOOD	WHITE
UTILITY	CLOSET WALL	A	WOOD	WHITE
BACK HALLWAY	WALL	ACD	PLASTER	PAPER
BATHROOM 3	WINDOW SASH, CASING & SILL	B	WOOD	NATURAL
BEDROOM 3	WINDOW SSH	D	WOOD	NATURAL
BEDROOM 5	FLOOR		WOOD	NATURAL
BEDROOM 8	WALL	A	WOOD	WHITE
BEDROOM 8	WINDOW CASING & SILL	A	WOOD	NATURAL
BEDROOM 8	WINDOW SSH & CASING	C	WOOD	WHITE
BEDROOM 8	FLOOR		WOOD	NATURAL
BATHROOM 4	WINDOW SASH, CASING & SILL	C	WOOD	NATURAL
BACK HALLWAY 2	WALL	A & B	WOOD	WHITE
BACK HALLWAY 2	CEILING		WOOD	WHITE
BACK HALLWAY 2	DOOR CASING	A & B	WOOD	WHITE/TAN

IV. RISK ASSESSMENT

A risk assessment is designed to determine the existence, nature, severity and location of lead-based paint hazards in or on a residential property and for reporting the findings of the assessment and the options for controlling or abating the hazards that are found. The risk assessment was performed in accordance with selected portions of the HUD Guidelines for the evaluation and Control of Lead-based Paint Hazards in Housing, July 2012, Chapter 5.

The risk assessment included the following:

- Sampling and visually assessing the dwelling and exterior area as part of the lead paint inspection of the property.
- Visually assessment of the dwelling and paint conditions.
- Environmental sampling for dust-lead.
- Environmental sampling for soil-lead.
- Interpreting the laboratory results.
- Evaluation of collected data for the presence or absence of any lead-based paint hazards.
- Final Report that lists any hazards identified, control measures and abatement cost estimates.

V. RISK ASSESSMENT RESULTS

A. Location and Type of Identified Hazards

The building and its paint are in generally poor condition. The risk assessment showed that lead-based paint hazards (as defined by regulating agency standards – Appendix A) exist. The lead-based paint hazards identified below should receive priority attention.

Deteriorated Paint Hazards

Location of deteriorated paint hazards		
Location	Structure	Side
BEDROOM 2	DOOR & DOOR CASING	A
BATHROOM 1	DOOR CASING	A
UTILITY	WALL	B
UTILITY	DOOR CASING	A
UTILITY	WINDOW SASH & CASING	A & B
UTILITY	CLOSET WALL	A
BACK HALLWAY	WALL	ACD
BATHROOM 3	WINDOW SASH, CASING & SILL	B
BEDROOM 3	WINDOW SASH	D
BEDROOM 5	FLOOR	
BEDROOM 8	WALL	A
BEDROOM 8	WINDOW CASING & SILL	A
BEDROOM 8	WINDOW SASH & CASING	C
BEDROOM 8	FLOOR	
BATHROOM 4	WINDOW SASH, CASING & SILL	C
BACK HALLWAY 2	WALL	A & B
BACK HALLWAY 2	CEILING	
BACK HALLWAY 2	DOOR CASING	A & B
EXTERIOR	WALL (SIDING)*	ABCD
EXTERIOR	DOOR	B & C
EXTERIOR	DOOR CASING & JAMB*	A, C & D
EXTERIOR	PORCH HEADER & SUPPORTS	A & D
EXTERIOR	ORIGINAL WOOD WINDOW COMPONENTS*	ABCD
EXTERIOR	BUILDING SOFFIT*	ABCD

*** These components are enclosed with metal or vinyl wraps. These enclosures are not in good condition and represent lead hazards.**

Chewed Surface Hazards

Location of chewed surface hazards		
Location	Structure	Side
None		

Friction Surface Hazards

Location of friction surface hazards		
Location	Structure	Side
BEDROOM 2	DOOR & DOOR CASING	A
BATHROOM 1	DOOR CASING	A
UTILITY	DOOR CASING	A
BEDROOM 5	FLOOR	
BEDROOM 8	FLOOR	
BACK HALLWAY 2	DOOR CASING	A & B
EXTERIOR	DOOR	B & C
EXTERIOR	DOOR CASING & JAMB*	A, C & D

*** These components are enclosed with metal or vinyl wraps. These enclosures are not in good condition and represent lead hazards.**

Impact Surface Hazards

Location of impact surface hazards		
Location	Structure	Side
BEDROOM 2	DOOR & DOOR CASING	A
BATHROOM 1	DOOR CASING	A
UTILITY	DOOR CASING	A
BACK HALLWAY 2	DOOR CASING	A & B
EXTERIOR	DOOR	B & C
EXTERIOR	DOOR CASING & JAMB*	A, C & D

*** These components are enclosed with metal or vinyl wraps. These enclosures are not in good condition and represent lead hazards.**

Dust-Lead Hazards

Location of dust-lead hazards		
Location	Structure	Side
Living room	Floor & windowsills	C & D
Kitchen	Floor	
Bedroom 3	Floor & windowsill	A, B & D
Bedroom 5	Floor & windowsills	B

Soil-Lead Hazards

Location of soil-lead hazards	Side
Dripline	D

Intact LBP Surfaces Being Disturbed by Renovation or Maintenance

Location of intact LBP surfaces being disturbed		
Location	Structure	Side
Unknown		

B. Location and Type of Lead-Based Painted Surfaces in Intact Condition

Other painted surfaces have been identified as in “intact” condition. These surfaces are not considered to be immediate “hazards”. Lead-Based Painted surfaces in “intact” condition are reported on the Visual Assessment of Lead-Based Paint Form included in Appendix B.

C. Ongoing Monitoring and Re-evaluation

Lead-based paint and lead-based paint hazards have been identified at the dwelling. Re-evaluation guidelines apply to this property.

Ongoing monitoring is necessary in all dwellings in which LBP is known or presumed to be present. At these dwellings, the very real potential exists for LBP hazards to develop. Hazards can develop by means such as, but not limited to: the failure of lead hazard control measures; previously intact LBP becoming deteriorated; dangerous levels of dust lead re-accumulating through friction, impact, and deterioration of paint; or, through the introduction of contaminated exterior dust and soil into the interior of the structure. Ongoing monitoring typically includes two different activities: re-evaluation and annual visual assessments. A re-evaluation is a risk assessment that includes limited soil and dust sampling and a visual evaluation of paint films and any existing lead hazard controls. Re-evaluations are supplemented with visual assessments by the Client, which should be conducted at least once a year, when the Client or its management agent (if the housing is rented in the future) receives complaints from residents about deteriorated paint or other potential lead hazards, when the residence (or if, in the future, the house will have more than one dwelling unit, any unit that turns over or becomes vacant), or when significant damage occurs that could affect the integrity of hazard control treatments (e.g., flooding, vandalism, fire). The visual assessment should cover the dwelling unit (if, in the future, the housing will have more than one dwelling unit, each unit and each common area used by residents), exterior painted surfaces, and ground cover (if control of soil-lead hazards is required or recommended). Visual assessments should confirm that all paint with known or suspected LBP is not deteriorating, that lead hazard control methods have not failed, and that structural problems do not threaten the integrity of any remaining known, presumed or suspected LBP.

The visual assessments do not replace the need for professional re-evaluations by a certified Risk Assessor. The re-evaluation should include:

1. A review of prior reports to determine where lead-based paint and lead-based paint hazards have been found, what controls were done, and when these findings and controls happened;
2. A visual assessment to identify deteriorated paint, failures of previous hazard controls, visible dust and debris, and bare soil;

3. Environmental testing for lead in dust, newly deteriorated paint, and newly bare soil; and

4. A report describing the findings of the re-evaluation, including the location of any lead-based paint hazards, the location of any failures of previous hazard controls, and, as needed, acceptable options for the control of hazards, the repair of previous controls, and modification of monitoring and maintenance practices.

The first re-evaluation should be conducted no later than two years after completion of hazard controls, or, if specific controls or treatments are not conducted, two years from the beginning of ongoing lead-based paint monitoring and maintenance activities. Subsequent re-evaluations should be conducted at intervals of two years, plus or minus 60 days. If two consecutive re-evaluations are conducted two years apart without finding a lead-based paint hazard, re-evaluation may be discontinued.

VI. BUILDING CONDITION FORM

Condition	Yes	No
Roof missing parts of surfaces (tiles, boards, shakes, etc.)	X	
Roof has holes or large cracks	X	
Gutters or downspouts broken or missing	X	
Chimney: masonry cracked, bricks loose or broken, out of plumb	X	
Exterior or interior walls have large cracks or holes requiring more than routine pointing or painting	X	
Exterior siding has missing boards or shingles	X	
Water stains on interior walls or ceilings	X	
Walls or ceilings deteriorated	X	
More than the de minimis amount of paint in a room deteriorated	X	
Two or more windows or doors broken, missing, or boarded up	X	
Porch or steps have major elements broken, missing, or boarded up		X
Foundation has major cracks, missing material, structural leans, or visibly unsound	X	
Total number	11	1

If the “Yes” column any checks, the dwelling is usually considered not to be in good condition for the purpose of a risk assessment, and a lead hazard screen is not advisable.

VII. FIELD SAMPLING FORM FOR DUST

Name of Risk Assessor: Nick Leow
Name of Client: City of Bowling Green
Property Address: 140 State Street, Bowling Green, Kentucky
Target dwelling criteria: Random Sampling

Sample Number	Room	Surface Type	Is surface smooth and cleanable?	Area (ft ²)	Results of lab analysis (µg/ft ²)
1	Dining room	Floor	Yes	1.00	70.4
2	Dining room	Window sill	Yes	0.312	602
3	Kitchen	Floor	Yes	1.00	71.9
4	Kitchen	Window sill	Yes	0.312	61.3
5	Bedroom 3	Floor	Yes	1.00	508
6	Bedroom 3	Window sill	Yes	0.312	468
7	Bedroom 5	Floor	Yes	1.00	639
8	Bedroom 5	Window sill	Yes	0.312	917

Standards: 10 µg/ft² (floors)
100 µg/ft² (interior window sills)

VIII. FIELD SAMPLING FORM FOR SOIL

Name of Risk Assessor: Nick Leow

Name of Client: City of Bowling Green

Property Address: 140 State Street, Bowling Green, Kentucky

Sample Number	Location	Bare or Covered	Lab Result (PPM)
09	Dripline side A	Bare	480
10	Dripline side B	Bare	630
11	Dripline side D	Bare	1800

Standard: 400 PPM (play areas)
1,200 PPM (rest of the yard)

IX. LEAD HAZARD CONTROLS

The homeowner may select the following forms of lead hazard control, all of the below lead hazard control measures are acceptable based on Federal Regulations and HUD Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing.

A) Lead Based Paint Classified as Intact:

- Re-evaluate lead-based paint surfaces every twelve months in accordance with 24 CFR Part 35.1355.
- Re-evaluation performed every three years by an independent risk assessment firm.
- Abatement (i.e. enclosure, encapsulation, removal or replacement) may be used at any time in lieu of interim controls.

B) Lead Based Paint Classified as Deteriorated:

- Correct all defective lead-based paint surfaces to intact condition. Re-evaluate all painted surfaces every twelve months in accordance with 24 CFR Part 35.1355.
- Corrective actions shall be performed in accordance with both interim Control Measures described in 24 CFR 35.1330 and Safe Work Practices as described in 24 CFR 35.1350.
- Clearance examinations shall be performed when Interim Controls, Paint Stabilization, Standard Treatments, On-going Lead-based Paint maintenance or rehabilitation is conducted in accordance with 24 CFR 35.1340.
- Re-evaluation performed every two years by an independent risk assessment firm.
- Abatement (i.e. enclosure, encapsulation, removal or replacement) may be used at any time in lieu of interim controls.

C) Lead Based Paint Classified as Deteriorated on stair treads and risers:

- Remove loose lead-based paint. Install protective covering on treads and risers.
- Re-evaluate all painted surfaces every twelve months in accordance with 24 CFR Part 35.1355.
- Corrective actions shall be performed in accordance with both interim Control Measures described in 24 CFR 35.1330 and Safe Work Practices as described in 24 CFR 35.1350.
- Clearance examinations shall be performed when Interim Controls, Paint Stabilization, Standard Treatments, On-going Lead-based Paint maintenance or rehabilitation is conducted in accordance with 24 CFR 35.1340.
- Re-evaluation performed every two years by an independent risk assessment firm.
- Abatement (i.e. enclosure, encapsulation, removal or replacement) may be used at any time in lieu of interim controls.

D) Lead Based Paint Classified as Deteriorated on windows:

- Remove loose lead-based paint. Install window glides or channels. Lubricate and re-evaluate every twelve months, in accordance with 24 CFR 35.1355.
- Corrective actions shall be performed in accordance with both interim Control Measures described in 24 CFR 35.1330 and Safe Work Practices as described in 24 CFR 35.1350.
- Clearance examinations shall be performed when Interim Controls, Paint Stabilization, Standard Treatments, On-going Lead-based Paint maintenance or rehabilitation is conducted in accordance with 24 CFR 35.1340.
- Re-evaluation performed every two years by an independent risk assessment firm.
- Abatement (i.e. enclosure, encapsulation, removal or replacement) may be used at any time in lieu of interim controls.

E) Dust-lead hazards on window sills:

- Perform specialized cleaning in accordance with 24 CFR 35.1350 (c).
- Lubricate adjacent friction surfaces (i.e. window sashes).
- Clearance examinations shall be performed when Interim Controls, Paint Stabilization, Standard Treatments, On-going Lead-based Paint maintenance or rehabilitation is conducted in accordance with 24 CFR 35.1340.
- Re-evaluation performed every two years by an independent risk assessment firm.
- Abatement (i.e. enclosure, encapsulation, removal or replacement) may be used at any time in lieu of interim controls.

F) Dust-lead hazards on hard surfaced floors:

Perform specialized cleaning in accordance with 24 CFR 35.1350 (c).

- Lubricate adjacent friction surfaces (i.e. window sashes).
- Correct Lead based Paint Hazards if present.
- Make all bare floors smooth and cleanable.
- Clearance examinations shall be performed when Interim Controls, Paint Stabilization, Standard Treatments, On-going Lead-based Paint maintenance or rehabilitation is conducted in accordance with 24 CFR 35.1340.
- Re-evaluation performed every two years by an independent risk assessment firm.
- Abatement (i.e. enclosure, encapsulation, removal or replacement) may be used at any time in lieu of interim controls.

G) Dust-lead hazards on dwelling carpet floors (Carpet):

- Correct Lead based Paint Hazards if present.
- Lubricate adjacent friction surfaces (i.e. window sashes and door hinges).

- Re-hang doors to prevent friction and impact damage.
- Perform specialized cleaning in accordance with 24 CFR 35.1350 (c).
- Steam-cleaning carpeting.
- Clearance examinations shall be performed when Interim Controls, Paint Stabilization, Standard Treatments, On-going Lead-based Paint maintenance or rehabilitation is conducted in accordance with 24 CFR 35.1340.
- For common areas, install door mats at building entrance.
- Re-evaluation performed every two years by an independent risk assessment firm.
- Abatement (i.e. enclosure, encapsulation, removal or replacement) may be used at any time in lieu of interim controls.

H) Soil-lead hazards of greater than 1200 but less than 5000 PPM in general yard and drip line and less than 400 PPM in play areas:

- Apply an impermanent surface covering which may include grass (seed or sod) or other ground cover (i.e. ivy), artificial turf, bark, mulch and gravel.
- If bark or gravel is selected, apply a covering of at least six to twelve inches deep. These materials should contain less than 50 PPM of lead.
- Re-evaluate all soil conditions every 12 months, in accordance with 24 CFR Part 35.1355.
- Re-evaluation performed every two years by an independent risk assessment firm.
- Abatement (removal and replacement) may be used at any time in lieu of interim controls.

I) Soil-lead hazards greater than or equal to 5000 PPM:

- Abatement is required in accordance with 40 CFR 745.227(e).

Abatement (i.e. enclosure, encapsulation, removal or replacement) may be used at any time in lieu of interim controls.

The term “interim controls” means a set of measures designed to reduce temporarily human exposure or likely exposure to lead-based paint hazards, including specialized cleaning, repairs, maintenance, painting, temporary containment, ongoing monitoring of lead-based paint hazards or potential hazards, and the establishment and operation of management and resident education programs.

The term “abatement” means any set of measures designed to permanently eliminate lead-based paint hazards in accordance with standards established by appropriate Federal agencies.

After any abatement or paint stabilization or cleaning work has been completed, clearance dust samples must be taken to make certain that the dwelling is lead-safe before the family reoccupies the work areas.

X. COST ESTIMATES

DETERIORATED POSITIVE RESULTS PAINT STABILIZATION WORKSHEET

- ◆ Remove all loose surface contaminants - wetting surface to minimize dust as you work
- ◆ Repair any areas of the surface that are not in good condition.
- ◆ De-gloss surfaces to be painted using wet sanding or a de-glossing paint.
- ◆ Prepare surface by using an appropriate cleaning agent before applying new paint
- ◆ Use a primer before applying new paint to all surfaces

Location and Description of Lead-based Paint – Deteriorated	Estimated Cost
Bedroom 2 door & door casing, side A	\$200.00
Bedroom 1 door casing, side A	100.00
Utility wall, side B	100.00
Utility door casing, side A	100.00
Utility window sash & casing side A & B	200.00
Utility closet wall, side A	100.00
Back hallway wall, side A, C & D	300.00
Bathroom 3 window sash, casing & sill, side B	200.00
Bedroom 3 window sash, side D	100.00
Bedroom 5 floor	200.00
Bedroom 8 window casing & sill, side A	200.00
Bedroom 8 window sash & casing, side C	200.00
Bedroom 8 floor	200.00
Bathroom 4 window sash, casing & sill, side C	200.00
Back hallway 2 walls, side A & B	400.00
Back hallway 2 ceiling	200.00
Back hallway 2 door casing, side A & B	200.00
Exterior wall (siding)*, all sides	1000.00
Exterior doors, side B & C	200.00
Exterior door casings & jambs*, sides A, C & D	200.00
Exterior porch headers & supports, side A & D	500.00
Exterior original wood window components*, all sides	500.00
Exterior building soffit*, all sides	1000.00
Estimated cost for Paint Stabilization and Repainting	\$6400.00

* These components are enclosed with metal or vinyl wraps. These enclosures are not in good condition and represent lead hazards.

The above cost estimates are for paint stabilization activities to be performed on these components.

Location and Description of Chewed Surface Hazard	Estimated Costs
None	

Location and Description of Friction Surface Hazard	Estimated Costs
Bedroom 2 door & door casing, side A	200.00
Bathroom 1 door casing, side A	100.00
Utility door casing, side A	100.00
Bedroom 5 floor	200.00
Bedroom 8 floor	200.00
Back hallway 2 door casing, side A & B	200.00
Exterior door, side B & C	200.00
Exterior door casing & jamb*, side A, C & D	200.00

*** These components are enclosed with metal or vinyl wraps. These enclosures are not in good condition and represent lead hazards. Cost estimates reflect repair to existing wraps.**

Location and Description of Impact Surface Hazard	Estimated Costs
Bedroom 2 door & door casing, side A	200.00
Bathroom 1 door casing, side A	100.00
Utility door casing, side A	100.00
Back hallway 2 door casing, side A & B	200.00
Exterior door, side B & C	200.00
Exterior door casing & jamb*, side A, C & D	200.00

*** These components are enclosed with metal or vinyl wraps. These enclosures are not in good condition and represent lead hazards.**

Location and Description of Dust-Lead clean-up areas	Estimated Costs
Living room floor & windowsills, side C & D	\$150.00
Kitchen floor	50.00
Bedroom 3 floor & windowsill, side A, B & D	400.00
Bedroom 5 floor & windowsills, side B	100.00

Location and Description of Soil-Lead Hazards	Estimated Costs
Dripline, side D	\$500.00

Location and Description of Intact Surfaces Being Disturbed	Estimated Costs
Unknown	

Additional Notes:

1) When maintenance or other work impacts a material, surface coating, substrate, component, or surface and its lead content is not known, those areas and/or items must be presumed to be lead-based paint.

2) During the period of lead hazard control activities, daily clean-up of the work areas should be performed. Accumulation of debris should be prevented. All trash must be disposed of promptly and properly. At the end of each day, time must be reserved for a thorough cleaning of the work area.

The cost above includes labor, worker protection, and site containment and clean up. These are only very rough estimates that may be impacted by multiply factors, such as time of year; time allotted for completion and replacement material expenses.

Please review the above lead hazard control options. Once a decision to perform interim controls, abatement or a combination of both has been decided, Micro-Analytics, Inc. would be pleased to provide a cost estimate for a Lead Hazard Design Plan, Lead Hazard Controls and Clearance.

XI. INACCESSIBLE AREAS

Only readily accessible areas were evaluated. Generally, the following areas were considered inaccessible:

- Original walls, ceiling surfaces or stair components enclosed with wallboard or similar material.
- Locked areas.

XII. CERTIFICATION

The Environmental Inspector certifies to the Client – (Principal Party) as named in the inspection report, and the Inspector and the Client agree that:

1. The Risk Assessor has no present or contemplated future (a) partnership with the Principal Party nor (b) an interest in the property inspected which could adversely affect the Inspector's ability to perform an objective inspection; and neither the employment of the Inspector to conduct the inspection, nor the compensation for it, is contingent on the results of this inspection.
2. The Risk Assessor has no personal interest in or bias with respect to the subject matter of the report or any parties who may be part of a financial transaction involving the property. The conclusions and recommendations of the report are not based in whole or in part upon the race, color, creed, sex, or national origin of any of the principal parties.
3. Any sketch appearing in or attached to the report, or any statement of dimensions, capacities, quantities, or distances, are approximate and are included to assist the reader in visualizing the dwelling.
4. The Risk Assessor is not required to give testimony, or appear in court because of having made the inspection with reference to the property in question, unless arrangements have been previously made therefore.
5. The Risk Assessor assumes that there are no hidden, unapparent, or latent conditions or defects in or on the property, other than those noted on the report or any addendum to the report which the Inspector has included. The Inspector assumes no responsibility for such conditions, or for inspection, engineering or repair which might be required to discover or correct such factors.
6. All contingent and limiting conditions are contained herein (imposed by terms of the inspection assignment or by the undersigned) affecting the conclusions and recommendations contained in the report.
7. This inspection and report has been conducted and prepared in conformity with principals, practices, and standards that are generally accepted throughout the industry.
8. All opinions, conclusions, and recommendations concerning the inspected property that are set forth in the report were prepared by the Risk Assessor whose signature appears on the report. No change of any item in the report shall be made by anyone other than the Inspector, and the Inspector shall have no responsibility for any such unauthorized change.

XIII. CONTINGENT AND LIMITING CONDITIONS

1. The certification of the Risk Assessor appearing in the inspection report is subject to the following conditions and to such other specific and limiting conditions as are set forth by the Inspector in the report:
2. The Inspector assumes no responsibility for matters of a legal nature affecting the property inspected.
3. Information, estimates and opinions furnished to the Inspector, and contained in the report, were obtained from sources considered reliable and are believed to be true and correct. However, the Inspector has made no independent investigation as to such matters and undertakes no responsibility for the accuracy of such items.
4. The Inspection and Risk Assessment report are made by the Risk Assessor solely for the benefit and personal use of the principal party. No disclosure may be made of the inspection report without prior written consent of the Inspector, and the Inspector undertakes no responsibility for harm or damage to any party other than the Principal Party.
5. Neither the inspection report, or any part thereof, nor any copy of the same (including results or recommendations, the identity of the Inspector, professional designations, reference to any professional organization, or firm with which the Inspector is connected), shall be used for any purpose by anyone but the Principal Party. The report shall not be conveyed by anyone to the public through advertising, public relations, news, sales, or other media, without prior written consent and approval of the Inspector.



Nick Leow, Certified Risk Assessor

March 7, 2023

Date of Signature

APPENDIX A

Regulatory Standards for Lead-Based Paint Hazards

Deteriorated Paint Hazards

The following lead levels are used to determine if paint or similar coatings are considered as lead-based paint, as well as a lead-based paint hazard.

The federal and state standard is:

one (1.0) milligram per square centimeter (mg/cm^2), which can be measured by either portable XRF or laboratory analysis, or

five-tenths (0.5) percent by weight, which can only be measured by laboratory analysis.

The Louisville-Metro standard is

0.7 milligram per square centimeter (mg/cm^2), which can be measured by either portable XRF or laboratory analysis, or

thirty five hundredths (0.35) percent by weight, which can only be measured by laboratory analysis.

Chewed Surface Hazards

The federal standard is “an interior or exterior surface painted with lead-based paint that a young child can mouth or chew. Hard metal surfaces and other surfaces that cannot be dented by the bite of a young child are not considered chewable.”

Friction Surface Hazards

The federal standard is “ any lead-based paint on a friction surface that is subject to abrasion and where the lead-dust on the nearest horizontal surface underneath the friction surface equals or exceeds the applicable lead-dust standard.”

Impact Surface Hazard

The federal standard defines an impact surface as a hazard when “there is damaged or otherwise deteriorated lead-based paint on an interior or exterior surface that is subject to damage by repeated sudden force that is caused by impact from a related building component.”

Dust-Lead Hazards

The following lead levels are used to determine a dust-lead hazard in a residential structure or child-occupied facility.

Floors – 10 $\mu\text{g}/\text{ft}^2$ (micrograms per square foot)
Interior Window Sills – 100 $\mu\text{g}/\text{ft}^2$
Window Troughs – 100 $\mu\text{g}/\text{ft}^2$

Soil-Lead Hazards

Federal standards consider soil to be a soil-lead hazard on residential property or child-occupied facility if the lead level is equal to or exceeds the following:

in a play area – 400 PPM (parts per million)
drip line and rest of yard – 1,200 PPM

APPENDIX B

Condition of Lead-Based Paint Form

The HUD regulation defines deteriorated paint as:

“Any interior or exterior paint or other coating that is peeling, chalking, chipping, 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.”

Condition of Lead-Based Paint

Location	Component	Side	Coating Condition	Substrate	Deterioration due to friction or impact ?	Deterioration due to moisture ?	Component has visual bite marks ?
BEDROOM 2	DOOR	A	DETERIORATED	WOOD			
BEDROOM 2	DOOR CASING	A	DETERIORATED	WOOD			
BATHROOM 1	DOOR CASING	A	DETERIORATED	WOOD			
UTILITY	WALL	B	DETERIORATED	WOOD			
UTILITY	DOOR CASING	A	DETERIORATED	WOOD			
UTILITY	WINDOW SASH	A	DETERIORATED	WOOD			
UTILITY	WINDOW CASING	A	DETERIORATED	WOOD			
UTILITY	WINDOW SASH	B	DETERIORATED	WOOD			
UTILITY	WINDOW CASING	B	DETERIORATED	WOOD			
UTILITY	CLOSET WALL	A	DETERIORATED	WOOD			
BACK HALLWAY	WALL	A	DETERIORATED	PLASTER			
BACK HALLWAY	WALL	C	DETERIORATED	PLASTER			
BACK HALLWAY	WALL	D	DETERIORATED	DRYWALL			
BATHROOM 3	WINDOW SASH	B	DETERIORATED	WOOD			
BATHROOM 3	WINDOW CASING	B	DETERIORATED	WOOD			
BATHROOM 3	WINDOW SILL	B	DETERIORATED	WOOD			
BEDROOM 3	WINDOW SASH	D	DETERIORATED	WOOD			
BEDROOM 5	FLOOR	ABCD	DETERIORATED	WOOD			

BEDROOM 8	WALL	A	DETERIORATED	WOOD			
BEDROOM 8	WINDOW CASING	A	DETERIORATED	WOOD			
BEDROOM 8	WINDOW SILL	A	DETERIORATED	WOOD			
BEDROOM 8	WINDOW SASH	C	DETERIORATED	WOOD			
BEDROOM 8	WINDOW CASING	C	DETERIORATED	WOOD			
BEDROOM 8	FLOOR	ABCD	DETERIORATED	WOOD			
BATHROOM 4	WINDOW SASH	C	DETERIORATED	WOOD			
BATHROOM 4	WINDOW CASING	C	DETERIORATED	WOOD			
BATHROOM 4	WINDOW SILL	C	DETERIORATED	WOOD			
BACK HALLWAY 2	WALL	A	DETERIORATED	WOOD			
BACK HALLWAY 2	WALL	B	DETERIORATED	WOOD			
BACK HALLWAY 2	CEILING		DETERIORATED	WOOD			
BACK HALLWAY 2	DOOR CASING	A	DETERIORATED	WOOD			
BACK HALLWAY 2	DOOR CASING	B	DETERIORATED	WOOD			
EXTERIOR	WALL	A	DETERIORATED	METAL			
EXTERIOR	DOOR CASING	A	DETERIORATED	WOOD			
EXTERIOR	DOOR JAMB	A	DETERIORATED	WOOD			
EXTERIOR	WINDOW SASH	A	DETERIORATED	METAL			
EXTERIOR	WINDOW CASING	A	DETERIORATED	METAL			
EXTERIOR	WINDOW SILL	A	DETERIORATED	METAL			
EXTERIOR	WINDOW TROUGH	A	DETERIORATED	METAL			
EXTERIOR	WINDOW STOPS	A	DETERIORATED	METAL			
EXTERIOR	PORCH HEADER	A	DETERIORATED	WOOD			
EXTERIOR	PORCH SUPPORTS	A	DETERIORATED	WOOD			
EXTERIOR	BUILDING FASCIA	A	ENCASED	METAL			

EXTERIOR	BUILDING SOFFIT	A	ENCASED	METAL			
EXTERIOR	WALL	B	DETERIORATED	METAL			
EXTERIOR	DOOR	B	DETERIORATED	WOOD			
EXTERIOR	WINDOW CASING	B	DETERIORATED	METAL			
EXTERIOR	WINDOW SILL	B	ENCASED	METAL			
EXTERIOR	BUILDING SOFFIT	B	ENCASED	METAL			
EXTERIOR	WALL	C	ENCASED	METAL			
EXTERIOR	DOOR	C	DETERIORATED	WOOD			
EXTERIOR	DOOR CASING	C	DETERIORATED	WOOD			

APPENDIX C

XRF RESULTS

Reading No.	Floor	Room	Structure	Side	Condition	Substrate	Color	Lead Concentration
								mg/cm ²
1		CALIBRATION						1.00
2		CALIBRATION						1.00
3		CALIBRATION						1.00
4	1	BEDROOM 1	WALL	A	DETERIORATED	PLASTER	PAPER	0.04
5	1	BEDROOM 1	WALL	B	DETERIORATED	PLASTER	PAPER	0.03
6	1	BEDROOM 1	WALL	C	DETERIORATED	PLASTER	PAPER	0.06
7	1	BEDROOM 1	BASEBOARD	ABCD	DETERIORATED	WOOD	NATURAL	0.21
8	1	BEDROOM 1	DOOR	A/D	DETERIORATED	WOOD	NATURAL	0.18
9	1	BEDROOM 1	DOOR CASING	A/D	DETERIORATED	WOOD	NATURAL	0.02
10	1	BEDROOM 1	DOOR CASING	C	DETERIORATED	WOOD	NATURAL	0.09
11	1	BEDROOM 1	WINDOW SASH	A	DETERIORATED	WOOD	NATURAL	0.12
12	1	BEDROOM 1	WINDOW CASING	A	DETERIORATED	WOOD	NATURAL	0.13
13	1	BEDROOM 1	WINDOW SILL	A	DETERIORATED	WOOD	NATURAL	0.03
14	1	BEDROOM 1	WINDOW SASH	B	DETERIORATED	WOOD	NATURAL	0.08
15	1	BEDROOM 1	WINDOW CASING	B	DETERIORATED	WOOD	NATURAL	0.08
16	1	BEDROOM 1	WINDOW SILL	B	DETERIORATED	WOOD	NATURAL	0.06
17	1	BEDROOM 1	FIREPLACE MANTLE	C	DETERIORATED	WOOD	NATURAL	0.06
18	1	BEDROOM 2	WALL	A	DETERIORATED	PLASTER	PAPER	0.12
19	1	BEDROOM 2	WALL	C	DETERIORATED	PLASTER	PAPER	0.06
20	1	BEDROOM 2	WALL	D	DETERIORATED	PLASTER	PAPER	0.14
21	1	BEDROOM 2	BASEBOARD	ABCD	DETERIORATED	WOOD	TAN	0.26
22	1	BEDROOM 2	DOOR	A	DETERIORATED	WOOD	TAN	2.10
23	1	BEDROOM 2	DOOR CASING	A	DETERIORATED	WOOD	TAN	1.60
24	1	BEDROOM 2	DOOR	C	DETERIORATED	WOOD	TAN	0.40
25	1	BEDROOM 2	DOOR CASING	C	DETERIORATED	WOOD	TAN	0.50
26	1	BEDROOM 2	WINDOW SASH	D	DETERIORATED	WOOD	TAN	0.08
27	1	BEDROOM 2	WINDOW CASING	D	DETERIORATED	WOOD	TAN	0.40
28	1	BEDROOM 2	WINDOW SILL	D	DETERIORATED	WOOD	TAN	0.11
29	1	BEDROOM 2	WALL WAINSCOTING	C	DETERIORATED	WOOD	TAN	0.40
30	1	BEDROOM 2	WALL WAINSCOTING	C	DETERIORATED	WOOD	TAN	0.22
31	1	BATHROOM 1	WALL	A	DETERIORATED	PLASTER	PAPER	0.00
32	1	BATHROOM 1	WALL	B	DETERIORATED	PLASTER	PAPER	0.00
33	1	BATHROOM 1	WALL	C	DETERIORATED	PLASTER	PAPER	0.00
34	1	BATHROOM 1	WALL	D	DETERIORATED	PLASTER	PAPER	0.00
35	1	BATHROOM 1	CEILING		DETERIORATED	DRYWALL	PINK	0.00
36	1	BATHROOM 1	DOOR CASING	A	DETERIORATED	WOOD	WHITE	5.40
37	1	BATHROOM 1	WINDOW SASH	B	DETERIORATED	WOOD	WHITE	0.11
38	1	BATHROOM 1	WINDOW CASING	B	DETERIORATED	WOOD	WHITE	0.07
39	1	BATHROOM 1	WINDOW SILL	B	DETERIORATED	WOOD	WHITE	0.06
40	1	BATHROOM 2	WALL	A	DETERIORATED	DRYWALL	TAN	0.40
41	1	BATHROOM 2	WALL	B	DETERIORATED	DRYWALL	TAN	0.50
42	1	BATHROOM 2	WALL	C	DETERIORATED	DRYWALL	TAN	0.40

43	1	BATHROOM 2	WALL	D	DETERIORATED	DRYWALL	TAN	0.60
44	1	BATHROOM 2	BASEBOARD	ABCD	DETERIORATED	WOOD	WHITE	0.50
45	1	BATHROOM 2	DOOR	A	DETERIORATED	WOOD	TAN	0.50
46	1	BATHROOM 2	DOOR CASING	A	DETERIORATED	WOOD	TAN	0.70
47	1	BATHROOM 2	DOOR	D	DETERIORATED	WOOD	WHITE	0.60
48	1	BATHROOM 2	DOOR CASING	D	DETERIORATED	WOOD	WHITE	0.70
49	1	BATHROOM 2	WINDOW SASH	B	DETERIORATED	WOOD	TAN	0.23
50	1	BATHROOM 2	WINDOW CASING	B	DETERIORATED	WOOD	TAN	0.40
51	1	BATHROOM 2	WINDOW SILL	B	DETERIORATED	WOOD	TAN	0.13
52	1	UTILITY	WALL	A	DETERIORATED	WOOD	GREEN	0.05
53	1	UTILITY	WALL	B	DETERIORATED	WOOD	GREEN	1.40
54	1	UTILITY	CEILING		DETERIORATED	DRYWALL	WHITE	0.02
55	1	UTILITY	DOOR CASING	A	DETERIORATED	WOOD	WHITE	5.80
56	1	UTILITY	WINDOW SASH	A	DETERIORATED	WOOD	WHITE	1.50
57	1	UTILITY	WINDOW CASING	A	DETERIORATED	WOOD	WHITE	2.70
58	1	UTILITY	WINDOW SASH	B	DETERIORATED	WOOD	WHITE	2.20
59	1	UTILITY	WINDOW CASING	B	DETERIORATED	WOOD	WHITE	4.20
60	1	UTILITY	CLOSET WALL	A	DETERIORATED	WOOD	WHITE	5.00
61	1	LIVING SPACE	WALL	A	ENCASED	PLASTER	TAN	0.00
62	1	LIVING SPACE	WALL	B	DETERIORATED	PLASTER	TAN	0.00
63	1	LIVING SPACE	WALL	C	ENCASED	PLASTER	TAN	0.00
64	1	LIVING SPACE	WALL	D	ENCASED	PLASTER	TAN	0.00
65	1	LIVING SPACE	CEILING		DETERIORATED	DRYWALL	WHITE	0.00
66	1	LIVING SPACE	WINDOW SASH	C	DETERIORATED	WOOD	WHITE	0.19
67	1	BACK HALLWAY	WALL	A	DETERIORATED	PLASTER	PAPER	10.90
68	1	BACK HALLWAY	WALL	B	DETERIORATED	WOOD	WHITE	0.03
69	1	BACK HALLWAY	WALL	C	DETERIORATED	PLASTER	PAPER	7.80
70	1	BACK HALLWAY	WALL	D	DETERIORATED	DRYWALL	WHITE	7.90
71	1	BACK HALLWAY	CEILING		DETERIORATED	DRYWALL	PAPER	0.01
72	1	BACK HALLWAY	BASEBOARD	ACD	DETERIORATED	WOOD	WHITE	0.10
73	1	BACK HALLWAY	DOOR	C	DETERIORATED	WOOD	WHITE	0.23
74	1	BACK HALLWAY	DOOR CASING	C	DETERIORATED	WOOD	WHITE	0.23
75	1	BACK HALLWAY	DOOR	D	DETERIORATED	WOOD	WHITE	0.80
76	1	BACK HALLWAY	DOOR CASING	D	DETERIORATED	WOOD	WHITE	0.28
77	1	BACK HALLWAY	WINDOW SASH	B	DETERIORATED	WOOD	WHITE	0.12
78	1	KITCHEN	WALL	A	ENCASED	WOOD	NATURAL	0.00
79	1	KITCHEN	WALL	B	ENCASED	WOOD	NATURAL	0.00
80	1	KITCHEN	WALL	C	ENCASED	WOOD	NATURAL	0.00
81	1	KITCHEN	WALL	D	ENCASED	WOOD	NATURAL	0.00
82	1	KITCHEN	CEILING		DETERIORATED	PLASTER	PAPER	0.60
83	1	FRONT HALLWAY	WALL	B	DETERIORATED	PLASTER	PAPER	0.19

84	1	FRONT HALLWAY	WALL	C	DETERIORATED	PLASTER	PAPER	0.00
85	1	FRONT HALLWAY	WALL	D	DETERIORATED	PLASTER	PAPER	0.00
86	1	FRONT HALLWAY	BASEBOARD	ABCD	DETERIORATED	WOOD	NATURAL	0.07
87	1	FRONT HALLWAY	DOOR	A	DETERIORATED	WOOD	NATURAL	0.10
88	1	FRONT HALLWAY	DOOR CASING	A	DETERIORATED	WOOD	NATURAL	0.11
89	1	FRONT HALLWAY	DOOR	C	DETERIORATED	WOOD	NATURAL	0.05
90	1	FRONT HALLWAY	DOOR CASING	C	DETERIORATED	WOOD	NATURAL	0.07
91		CALIBRATION						1.00
92		CALIBRATION						1.00
93		CALIBRATION						1.00
94	1	FRONT HALLWAY	STAIR TREAD	C	DETRIORATED	WOOD	NATURAL	0.00
95	1	FRONT HALLWAY	STAIR RISER	C	DETRIORATED	WOOD	NATURAL	0.03
96	1	FRONT HALLWAY	STAIR STRINGER	B	DETRIORATED	WOOD	NATURAL	0.05
97	1	FRONT HALLWAY	STAIR BASEBOARD	B	DETRIORATED	WOOD	NATURAL	0.04
98	1	FRONT HALLWAY	STAIR HANDRAIL	B	DETRIORATED	WOOD	NATURAL	0.09
99	1	FRONT HALLWAY	STAIR BALUSTER	B	DETRIORATED	WOOD	NATURAL	0.06
100	1	FRONT HALLWAY	STAIR POST	B	DETRIORATED	WOOD	NATURAL	0.02
101	1	DINING ROOM	WALL	A	DETERIORATED	PLASTER	PAPER	0.14
102	1	DINING ROOM	WALL	B	DETERIORATED	PLASTER	PAPER	0.07
103	1	DINING ROOM	WALL	C	DETERIORATED	PLASTER	PAPER	0.12
104	1	DINING ROOM	WALL	D	DETERIORATED	PLASTER	PAPER	0.09
105	1	DINING ROOM	CEILING		DETERIORATED	DRYWALL	PINK	0.00
106	1	DINING ROOM	BASEBOARD	ABCD	DETERIORATED	WOOD	NATURAL	0.04
107	1	DINING ROOM	DOOR	D	DETERIORATED	WOOD	NATURAL	0.19
108	1	DINING ROOM	DOOR CASING	D	DETERIORATED	WOOD	NATURAL	0.05
109	1	DINING ROOM	DOOR CASING	B	DETERIORATED	WOOD	NATURAL	0.05
110	1	DINING ROOM	WINDOW CASING	A	DETERIORATED	WOOD	NATURAL	0.06
111	1	DINING ROOM	WINDOW CASING	D	DETERIORATED	WOOD	NATURAL	0.07
112	1	DINING ROOM	WINDOW SILL	D	DETERIORATED	WOOD	NATURAL	0.03
113	1	DINING ROOM	WALL TRIM	C	DETERIORATED	WOOD	NATURAL	0.03
114	2	BATHROOM 3	WALL	A	DETERIORATED	PLASTER	PAPER	0.00
115	2	BATHROOM 3	WALL	B	DETERIORATED	PLASTER	PAPER	0.00
116	2	BATHROOM 3	WALL	C	DETERIORATED	PLASTER	PAPER	0.00
117	2	BATHROOM 3	WALL	D	DETERIORATED	PLASTER	PAPER	0.00
118	2	BATHROOM 3	CEILING		DETERIORATED	DRYWALL	WHITE	0.00
119	2	BATHROOM 3	WINDOW SASH	B	DETERIORATED	WOOD	NATURAL	1.00
120	2	BATHROOM 3	WINDOW CASING	B	DETERIORATED	WOOD	NATURAL	1.00
121	2	BATHROOM 3	WINDOW SILL	B	DETERIORATED	WOOD	NATURAL	1.00
122	2	BEDROOM 3	WALL	A	DETERIORATED	PLASTER	PAPER	0.03
123	2	BEDROOM 3	WALL	B	DETERIORATED	PLASTER	PAPER	0.01
124	2	BEDROOM 3	WALL	C	DETERIORATED	PLASTER	PAPER	0.06

125	2	BEDROOM 3	WALL	D	DETERIORATED	PLASTER	PAPER	0.06
126	2	BEDROOM 3	BASEBOARD	ABD	DETERIORATED	WOOD	NATURAL	0.02
127	2	BEDROOM 3	WINDOW SASH	A	DETERIORATED	WOOD	NATURAL	0.04
128	2	BEDROOM 3	WINDOW CASING	A	DETERIORATED	WOOD	NATURAL	0.02
129	2	BEDROOM 3	WINDOW SILL	A	DETERIORATED	WOOD	NATURAL	0.13
130	2	BEDROOM 3	WINDOW SASH	D	DETERIORATED	WOOD	NATURAL	1.20
131	2	BEDROOM 3	WINDOW CASING	D	DETERIORATED	WOOD	NATURAL	0.01
132	2	BEDROOM 3	WINDOW SILL	D	DETERIORATED	WOOD	NATURAL	0.03
133	2	BEDROOM 3	WINDOW SASH	B	DETERIORATED	WOOD	NATURAL	0.06
134	2	BEDROOM 3	WINDOW SILL	B	DETERIORATED	WOOD	NATURAL	0.02
135	2	BEDROOM 3	WINDOW CASING	B	DETERIORATED	WOOD	NATURAL	0.12
136	2	BEDROOM 3	FLOOR	ABCD	DETERIORATED	WOOD	NATURAL	0.08
137	2	BEDROOM 4	WALL	A	DETERIORATED	PLASTER	PAPER	0.16
138	2	BEDROOM 4	WALL	B	DETERIORATED	PLASTER	PAPER	0.07
139	2	BEDROOM 4	WALL	C	DETERIORATED	PLASTER	PAPER	0.08
140	2	BEDROOM 4	WALL	D	DETERIORATED	PLASTER	PAPER	0.04
141	2	BEDROOM 4	CEILING		DETERIORATED	PLASTER	PAPER	0.00
142	2	BEDROOM 4	BASEBOARD	ABCD	DETERIORATED	WOOD	NATURAL	0.05
143	2	BEDROOM 4	DOOR	C	DETERIORATED	WOOD	NATURAL	0.05
144	2	BEDROOM 4	DOOR CASING	C	DETERIORATED	WOOD	NATURAL	0.01
145	2	BEDROOM 4	WINDOW SASH	B	DETERIORATED	WOOD	NATURAL	0.12
146	2	BEDROOM 4	WINDOW CASING	B	DETERIORATED	WOOD	NATURAL	0.06
147	2	BEDROOM 4	WINDOW SILL	B	DETERIORATED	WOOD	NATURAL	0.08
148	2	BEDROOM 5	WALL	A	DETERIORATED	WOOD	NATURAL	0.02
149	2	BEDROOM 5	WALL	B	DETERIORATED	WOOD	NATURAL	0.00
150	2	BEDROOM 5	WALL	C	DETERIORATED	WOOD	NATURAL	0.00
151	2	BEDROOM 5	WALL	D	DETERIORATED	WOOD	NATURAL	0.07
152	2	BEDROOM 5	DOOR	A	DETERIORATED	WOOD	NATURAL	0.11
153	2	BEDROOM 5	DOOR CASING	A	DETERIORATED	WOOD	NATURAL	0.08
154	2	BEDROOM 5	WINDOW SASH	B	DETERIORATED	WOOD	NATURAL	0.04
155	2	BEDROOM 5	WINDOW CASING	B	DETERIORATED	WOOD	NATURAL	0.30
156	2	BEDROOM 5	WINDOW SILL	B	DETERIORATED	WOOD	NATURAL	0.02
157	2	BEDROOM 5	FLOOR	ABCD	DETERIORATED	WOOD	NATURAL	1.10
158	2	BEDROOM 6	WALL	A	DETERIORATED	PLASTER	PAPER	0.12
159	2	BEDROOM 6	WALL	B	DETERIORATED	PLASTER	PAPER	0.00
160	2	BEDROOM 6	WALL	C	DETERIORATED	PLASTER	PAPER	0.00
161	2	BEDROOM 6	WALL	D	DETERIORATED	PLASTER	PAPER	0.13
162	2	BEDROOM 6	CEILING		DETERIORATED	DRYWALL	WHITE	0.00
163	2	BEDROOM 6	BASEBOARD	ABCD	DETERIORATED	WOOD	NATURAL	0.01
164	2	BEDROOM 6	DOOR CASING	D	DETERIORATED	WOOD	NATURAL	0.00
165	2	BEDROOM 6	WINDOW SILL	C	DETERIORATED	WOOD	NATURAL	0.00
166	2	BEDROOM 6	WINDOW SASH	C	DETERIORATED	WOOD	NATURAL	0.01
167	2	BEDROOM 6	WINDOW CASING	C	DETERIORATED	WOOD	NATURAL	0.01
168	2	BEDROOM 6	WINDOW SILL	D	DETERIORATED	WOOD	NATURAL	0.00
169	2	BEDROOM 6	WINDOW SASH	D	DETERIORATED	WOOD	NATURAL	0.01
170	2	BEDROOM 6	WINDOW CASING	D	DETERIORATED	WOOD	NATURAL	0.01
171	2	BEDROOM 7	WALL	A	DETERIORATED	PLASTER	PAPER	0.15
172	2	BEDROOM 7	WALL	B	DETERIORATED	PLASTER	PAPER	0.08
173	2	BEDROOM 7	WINDOW SASH	C	DETERIORATED	WOOD	NATURAL	0.01
174	2	BEDROOM 7	WINDOW CASING	C	DETERIORATED	WOOD	NATURAL	0.01

175	2	BEDROOM 7	WINDOW SILL	C	DETERIORATED	WOOD	NATURAL	0.00
176	2	BEDROOM 7	WINDOW SASH	D	DETERIORATED	WOOD	NATURAL	0.01
177	2	BEDROOM 7	WINDOW CASING	D	DETERIORATED	WOOD	NATURAL	0.01
178	2	BEDROOM 7	WINDOW SILL	D	DETERIORATED	WOOD	NATURAL	0.00
179	2	BEDROOM 8	WALL	A	DETERIORATED	WOOD	WHITE	1.40
180	2	BEDROOM 8	WALL	B	DETERIORATED	PLASTER	WHITE	0.00
181	2	BEDROOM 8	WALL	C	DETERIORATED	PLASTER	PAPER	0.01
182	2	BEDROOM 8	WALL	D	DETERIORATED	WOOD	NATURAL	0.00
183	2	BEDROOM 8	CEILING		DETERIORATED	PLASTER	PAPER	0.01
184	2	BEDROOM 8	WINDOW SASH	A	DETERIORATED	WOOD	NATURAL	0.00
185	2	BEDROOM 8	WINDOW CASING	A	DETERIORATED	WOOD	NATURAL	2.30
186	2	BEDROOM 8	WINDOW SILL	A	DETERIORATED	WOOD	NATURAL	2.40
187	2	BEDROOM 8	WINDOW SASH	D	DETERIORATED	WOOD	NATURAL	0.00
188	2	BEDROOM 8	WINDOW CASING	D	DETERIORATED	WOOD	NATURAL	0.00
189	2	BEDROOM 8	WINDOW SILL	D	DETERIORATED	WOOD	NATURAL	0.00
190	2	BEDROOM 8	WINDOW SASH	C	DETERIORATED	WOOD	WHITE	2.10
191	2	BEDROOM 8	WINDOW CASING	C	DETERIORATED	WOOD	WHITE	13.50
192	2	BEDROOM 8	WINDOW SILL	C	DETERIORATED	WOOD	WHITE	0.40
193	2	BEDROOM 8	FLOOR	ABCD	DETERIORATED	WOOD	NATURAL	2.20
194	2	BEDROOM 9	WALL	A	DETERIORATED	PLASTER	PAPER	0.04
195	2	BEDROOM 9	WALL	B	DETERIORATED	PLASTER	PAPER	0.06
196	2	BEDROOM 9	BASEBOARD	ABCD	DETERIORATED	WOOD	NATURAL	0.06
197	2	BEDROOM 9	DOOR	B	DETERIORATED	WOOD	NATURAL	0.03
198	2	BEDROOM 9	DOOR CASING	B	DETERIORATED	WOOD	NATURAL	0.03
199	2	BATHROOM 4	WALL	A	DETERIORATED	PLASTER	PAPER	0.00
200	2	BATHROOM 4	WALL	B	DETERIORATED	PLASTER	PAPER	0.00
201	2	BATHROOM 4	WALL	C	DETERIORATED	PLASTER	PAPER	0.00
202	2	BATHROOM 4	WALL	D	DETERIORATED	PLASTER	PAPER	0.00
203	2	BATHROOM 4	CEILING		DETERIORATED	DRYWALL	WHITE	0.00
204	2	BATHROOM 4	WINDOW SASH	C	DETERIORATED	WOOD	NATURAL	1.00
205	2	BATHROOM 4	WINDOW CASING	C	DETERIORATED	WOOD	NATURAL	1.00
206	2	BATHROOM 4	WINDOW SILL	C	DETERIORATED	WOOD	NATURAL	1.00
207	2	BACK HALLWAY 2	WALL	A	DETERIORATED	WOOD	WHITE	1.90
208	2	BACK HALLWAY 2	WALL	B	DETERIORATED	WOOD	WHITE	1.90
209	2	BACK HALLWAY 2	WALL	C	DETERIORATED	PLASTER	TAN	0.60
210	2	BACK HALLWAY 2	WALL	D	DETERIORATED	PLASTER	GREEN	0.00
211	2	BACK HALLWAY 2	CEILING		DETERIORATED	WOOD	WHITE	1.00
212	2	BACK HALLWAY 2	DOOR CASING	A	DETERIORATED	WOOD	TAN	3.00
213	2	BACK HALLWAY 2	DOOR	B	DETERIORATED	WOOD	NATURAL	0.10
214	2	BACK HALLWAY 2	DOOR CASING	B	DETERIORATED	WOOD	WHITE	3.80
215	2	BACK HALLWAY 2	DOOR	D	DETERIORATED	WOOD	NATURAL	0.00
216	2	BACK HALLWAY 2	DOOR CASING	D	DETERIORATED	WOOD	NATURAL	0.00
217	2	BACK HALLWAY 2	DOOR CASING	C	DETERIORATED	WOOD	NATURAL	0.00

218	2	HALL	WALL	A	DETERIORATED	PLASTER	PAPER	0.09
219	2	HALL	WALL	B	DETERIORATED	PLASTER	PAPER	0.00
220	2	HALL	WALL	C	DETERIORATED	PLASTER	PAPER	0.09
221	2	HALL	WALL	D	DETERIORATED	PLASTER	PAPER	0.17
222	2	HALL	CEILING		DETERIORATED	PLASTER	PAPER	0.01
223	2	HALL	BASEBOARD	ABCD	DETERIORATED	WOOD	NATURAL	0.06
224	2	HALL	DOOR CASING	B	DETERIORATED	WOOD	NATURAL	0.03
225		HALL	WINDOW SASH	A	DETERIORATED	WOOD	NATURAL	0.06
226		HALL	WINDOW CASING	A	DETERIORATED	WOOD	NATURAL	0.04
227		HALL	WINDOW SILL	A	DETERIORATED	WOOD	NATURAL	0.12
228		EXTERIOR	WALL	A	DETERIORATED	METAL	WHITE	12.00
229		EXTERIOR	DOOR	A	DETERIORATED	WOOD	WHITE	0.05
230		EXTERIOR	DOOR CASING	A	DETERIORATED	WOOD	WHITE	17.90
231		EXTERIOR	DOOR JAMB	A	DETERIORATED	WOOD	WHITE	4.90
232		EXTERIOR	WINDOW SASH	A	DETERIORATED	METAL	WHITE	16.50
233		EXTERIOR	WINDOW CASING	A	DETERIORATED	METAL	WHITE	10.20
234		EXTERIOR	WINDOW SILL	A	DETERIORATED	METAL	WHITE	5.10
235		EXTERIOR	WINDOW TROUGH	A	DETERIORATED	METAL	WHITE	12.40
236		EXTERIOR	WINDOW STOPS	A	DETERIORATED	METAL	WHITE	16.40
237		EXTERIOR	PORCH HEADER	A	DETERIORATED	WOOD	WHITE	12.10
238		EXTERIOR	PORCH SUPPORTS	A	DETERIORATED	WOOD	WHITE	9.50
239		EXTERIOR	BUILDING FASCIA	A	ENCASED	METAL	WHITE	1.00
240		EXTERIOR	BUILDING SOFFIT	A	ENCASED	METAL	WHITE	1.00
241		EXTERIOR	WALL	B	DETERIORATED	METAL	WHITE	9.70
242		EXTERIOR	DOOR	B	DETERIORATED	WOOD	WHITE	1.40
243		EXTERIOR	DOOR CASING	B	DETERIORATED	WOOD	WHITE	0.01
244		EXTERIOR	DOOR JAMB	B	DETERIORATED	WOOD	WHITE	0.50
245		EXTERIOR	DOOR THRESHOLD	B	DETERIORATED	WOOD	WHITE	0.01
246		EXTERIOR	WINDOW CASING	B	DETERIORATED	METAL	WHITE	11.40
247		EXTERIOR	WINDOW SILL	B	ENCASED	METAL	WHITE	6.00
248		EXTERIOR	BUILDING SOFFIT	B	ENCASED	METAL	WHITE	1.00
249		EXTERIOR	WALL	C	ENCASED	METAL	WHITE	18.40
250		EXTERIOR	DOOR	C	DETERIORATED	WOOD	WHITE	4.00
251		EXTERIOR	DOOR CASING	C	DETERIORATED	WOOD	WHITE	7.20
252		EXTERIOR	DOOR JAMB	C	DETERIORATED	WOOD	WHITE	15.50
253		EXTERIOR	DOOR THRESHOLD	C	DETERIORATED	WOOD	NATURAL	0.07
254		EXTERIOR	WINDOW SASH	C	DETERIORATED	METAL	WHITE	9.60
255		EXTERIOR	WINDOW SILL	C	DETERIORATED	METAL	WHITE	8.70
256		EXTERIOR	PORCH HEADER	C	DETERIORATED	WOOD	WHITE	0.05
257		EXTERIOR	PORCH SUPPORTS	C	DETERIORATED	METAL	WHITE	0.80
258		EXTERIOR	WALL	D	DETERIORATED	METAL	WHITE	9.80
259		EXTERIOR	DOOR	D	DETERIORATED	WOOD	NATURAL	0.50
260		EXTERIOR	DOOR CASING	D	DETERIORATED	METAL	WHITE	12.20
261		EXTERIOR	DOOR JAMB	D	DETERIORATED	WOOD	WHITE	9.20
262		EXTERIOR	WINDOW CASING	D	DETERIORATED	METAL	WHITE	13.70
263		EXTERIOR	WINDOW SILL	D	DETERIORATED	METAL	WHITE	5.90
264		EXTERIOR	PORCH HEADER	D	DETERIORATED	WOOD	WHITE	14.30
265		EXTERIOR	PORCH SUPPORTS	D	DETERIORATED	WOOD	WHITE	9.00
266		CALIBRATION						1.00
267		CALIBRATION						1.00

268		CALIBRATION						1.00
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APPENDIX D

Kentucky Dept. for Public Health, Certifications.





CABINET FOR HEALTH AND FAMILY SERVICES
Department for Public Health

Andy Beshear
Governor

Division of Public Health Protection and Safety
275 East Main Street HS1EB
Frankfort, Kentucky 40621
Phone (502) 564-4537
Fax (502) 564-0885
Website: <http://chfs.kv.gov/dph>

Eric Friedlander
Secretary

Steven J. Stack, MD
Commissioner

4/4/2022

Nicholas Leow 41-148
Micro-Analytics, Inc.
3310-C Gilmore Industrial Blvd.
Louisville, KY 40213

To Whom It May Concern

Enclosed is your identification card. It is being issued pursuant to 902 KAR 48:040. This card is subject to revocation, and/or suspension, and is non-transferable and will become invalid if loaned or given to another person for identification while performing lead-hazard detection and/or abatement activities for the Commonwealth of Kentucky.

This identification card must be carried at all times while performing lead-hazard activities in the State of Kentucky. If there are any corrections needed please call (502) 564-4537.

Note: In revised certification regulation 902 KAR 48:020, if you fail to pass a refresher course and submit your application for recertification at least 30 days prior to the expiration date on your identification card and certificate, you must reapply for certification and retake the third party examination. An applicant who fails to reapply for certification after six (6) months from the date the certification has lapsed shall pass an initial course and reapply through the initial certification process. This will also modify your certification date.


Sincerely,

Jennifer Billingslea
Jennifer Billingslea





An Equal Opportunity Employer M/F/D

Kentucky Environmental Lead Program
275 East Main Street
Frankfort, KY 40621



Nicholas Leow
Risk Assessor
D.O.B.: 8/21/1978
41-148
8/21/1978
EXP: June 18, 2024

APPENDIX E

Laboratory Analysis, Chain of Custody and Laboratory Accreditations



Environmental Hazards Services, L.L.C.
 7469 Whitepine Rd
 Richmond, VA 23237
 Telephone: 800.347.4010

Lead in Soil Analysis Report

Report Number: 23-02-04848

Client: Micro-Analytics Inc.
 3310-C Gilmore Industrial Blv
 Louisville, KY 40213

Received Date: 02/28/2023
 Analyzed Date: 03/03/2023
 Reported Date: 03/06/2023

Project/Test Address: 140 State Street; Bowling Green, KY
 Collection Date: 02/23/2023

Client Number:
 18-2532

Laboratory Results

Fax Number:
 502-964-1123

Lab Sample Number	Client Sample Number	Collection Location	Concentration ppm (ug/g)	Narrative ID
23-02-04848-009	09	DRIPLINE SIDE A	480	
23-02-04848-010	10	DRIPLINE SIDE B	630	
23-02-04848-011	11	DRIPLINE SIDE D	1800	

Environmental Hazards Services, L.L.C

Client Number: 18-2532

Report Number: 23-02-04848

Project/Test Address: 140 State Street; Bowling Green, KY

Lab Sample Number	Client Sample Number	Collection Location	Concentration ppm (ug/g)	Narrative ID
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Method: ASTM E-1979-17/EPA SW846 7000B

Reviewed By Authorized Signatory:



Amanda Lowery

The Reporting Limit (RL) is 10.0 ug Total Pb. All internal quality control requirements associated with this batch were met, unless otherwise noted.

The condition of the samples analyzed was acceptable upon receipt per laboratory protocol unless otherwise noted on this report. Results represent the analysis of samples submitted by the client. Unless otherwise noted, samples are reported without a dry weight correction. Sample location, description, area, volume, etc., was provided by the client. If the report does not contain the result for a field blank, it is due to the fact that the client did not include a field blank with their samples. EHS sample results do not reflect blank correction. This report shall not be reproduced except in full, without the written consent of Environmental Hazards Services, L.L.C.

ELLAP Accreditation through AIHA LAP, LLC (100420), NY ELAP #11714.

LEGEND ug = microgram ppm = parts per million
 ug/g = micrograms per gram



Environmental Hazards Services, L.L.C.
 7469 Whitepine Rd
 Richmond, VA 23237
 Telephone: 800.347.4010

Lead Dust Wipe Analysis Report

Report Number: 23-02-04848

Client: Micro-Analytcs Inc.
 3310-C Gilmore Industrial Blv
 Louisville, KY 40213

Received Date: 02/28/2023
 Analyzed Date: 03/03/2023
 Reported Date: 03/06/2023

Project/Test Address: 140 State Street; Bowling Green, KY
 Collection Date: 02/23/2023

Client Number:
 18-2532

Laboratory Results

Fax Number:
 502-964-1123

Lab Sample Number	Client Sample Number	Collection Location	Surface	Total Pb (ug)	Wipe Area (ft ²)	Concentration (ug/ft ²)	Narrative ID
23-02-04848-001	01	LIV	FL	70.4	1.00	70.4	
23-02-04848-002	02	LIV	SL	188	0.312	602	
23-02-04848-003	03	KIT	FL	71.9	1.00	71.9	
23-02-04848-004	04	KIT	SL	19.1	0.312	61.3	
23-02-04848-005	05	BED 3	FL	508	1.00	508	
23-02-04848-006	06	BED 3	SL	146	0.312	468	
23-02-04848-007	07	BED 5	FL	639	1.00	639	
23-02-04848-008	08	BED 5	SL	286	0.312	917	

Environmental Hazards Services, L.L.C

Client Number: 18-2532

Report Number: 23-02-04848

Project/Test Address: 140 State Street; Bowling Green, KY

Lab Sample Number	Client Sample Number	Collection Location	Surface	Total Pb (ug)	Wipe Area (ft ²)	Concentration (ug/ft ²)	Narrative ID
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Method: ASTM E-1979-17/EPA SW846 7000B

Accreditation #:

Reviewed By Authorized Signatory:



Amanda Lowery

The condition of the samples analyzed was acceptable upon receipt per laboratory protocol unless otherwise noted on this report. Results represent the analysis of samples submitted by the client. Sample location, description, area, etc., was provided by the client. Results reported above in ug/ft² are calculated based on area supplied by the client. If the report does not contain the result for a field blank, it is due to the fact that the client did not include a field blank with their samples. These sample results do not reflect blank correction. This report shall not be reproduced except in full, without the written consent of Environmental Hazards Services, L.L.C.

ELLAP Accreditation through AIHA LAP, LLC (100420), NY ELAP #11714.

Legend	ug = microgram	ug/ft ² = micrograms per square foot	Pb = lead
	mL = milliliter	ft ² = square foot	

ENVIRONMENTAL HAZARDS SERVICES, LLC

Lead Chain of Custody Form

Company Name	Micro Analytics	Account #	18-2532-S
Company Address	3310-C Guilmore Industrial Blvd	City/State/Zip	Louisville, KY 40213
Phone	502-964-8737	Email	
Project Name / Testing Address	140 State Street, Bowling Green, KY		
PO Number	72248	Collected By	Harri Hagerthey
Turn-Around Time	<input checked="" type="radio"/> 5 Day <input type="radio"/> 3 Day <input type="radio"/> 2 Day <input type="radio"/> 1 Day <input type="radio"/> Same Day / Weekend - Must Call Ahead		

Do Submitted Dust Wipe Samples Meet ASTM E1792 Requirements?
 Yes
 No
 NEW YORK CITY Pb DUST WIPE PROJECTS: Please take floor dust wipe samples using a 2 ft² wipe area.

SAMPLE TYPES				SAMPLE LOCATION ABBREVIATIONS										SURFACE TYPE FOR DUST WIPES			
Dust Wipe	DW	Air	A	Family Room	FR	Front	F	1st FL	1	Bath	BA	Bedroom	BR	Floor	FL	Window Well	WW
Paint Chip	PC	Soil	S	Living Room	LR	Rear	R	2nd FL	2	Dining	DR	Basement	B	Carpet	CP	Window Sill	SL
Composite Soil	CS	Composite Wipe	CW	Den	DN	Left	LT	Right	RT	Kitchen	KT						

LAB NUMBER	Client Sample ID	Collection Date	Sample Type	Collection Location [LR, KT, BA,]	Surface Type	Area		Paint Chip		Air		
						Length X Width (In Inches) [Provide paint chip area only if results are needed in mg/cm ²]	mg/cm ²	% by weight	Total Time [minutes]	Flow Rate [L/min]	Total Volume [Liters]	
1	01	2-23-23	D	Liv	FL	12 x 12						
2	02		D	Liv	SL	3 x 15						
3	03		D	KIT	FL	12 x 12						
4	04		D	KIT	SL	3 x 15						
5	05		D	Bed 3	FL	12 x 12						
6	06		D	Bed 3	SL	3 x 15						
7	07		D	Bed 5	FL	12 x 12						
8	08		D	Bed 5	SL	3 x 15						
9	09		S	Dripline side A		X						
10	10		S	Dripline side B		X						
11	11		S	Dripline side D		X						
12						X						
13						X						
14						X						

Released By: L.H. Hagerthey Date: 2-27-23 Time: _____
 Signature: [Signature]

LAB USE ONLY - BELOW THIS LINE

Received By: Amy Vejnar
 Signature: [Signature]
 Date: 2/28/23 Time: 4 : 09 AM PM

Portal Contact Added

7469 WHITEPINE RD, RICHMOND, VA 23237 (800)-347-4010
 RESULTS VIA CLIENT PORTAL AVAILABLE @ www.leadlab.com

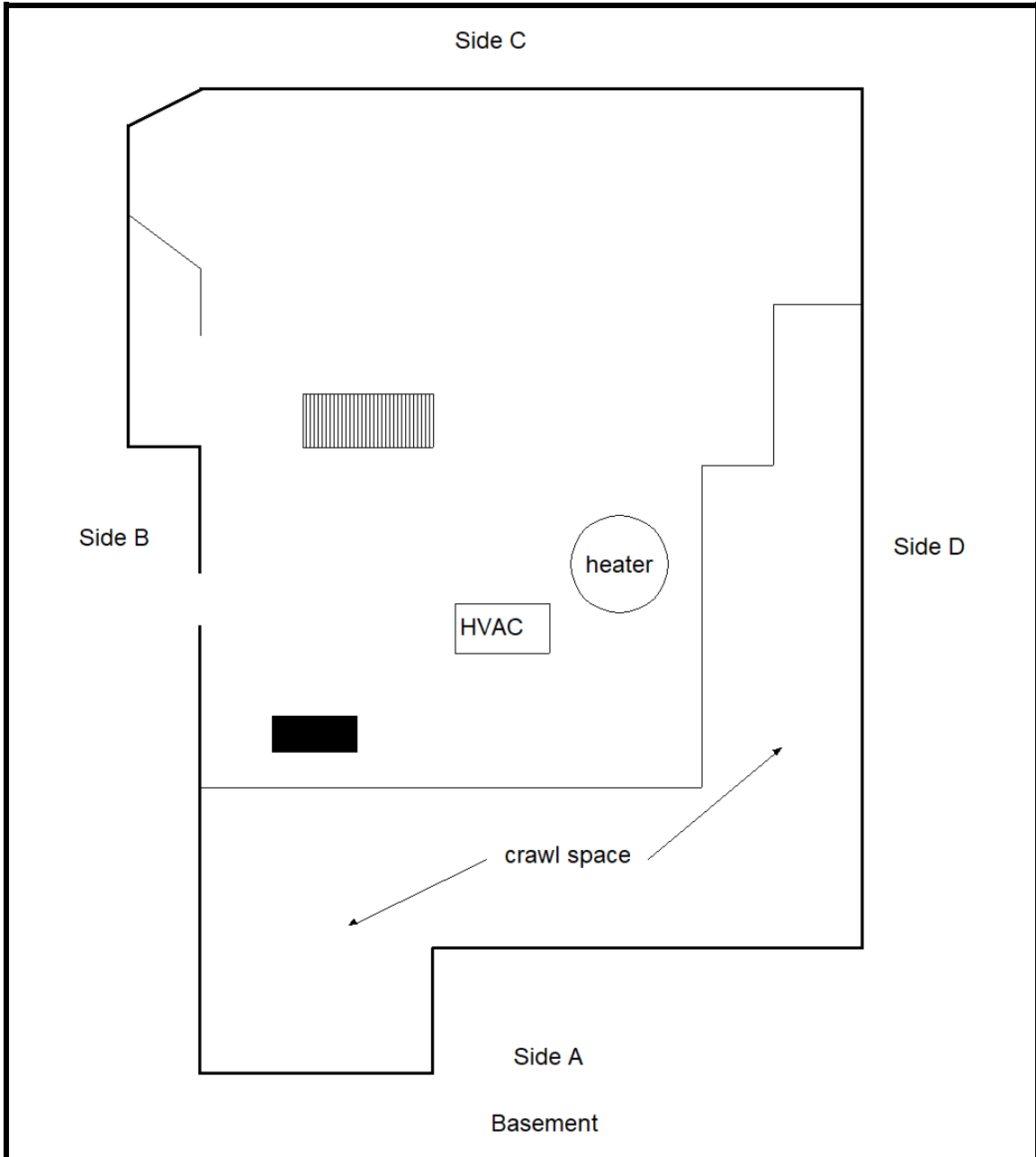
23-02-04848

Due Date:
03/07/2023
 (Tuesday)
 AE

HH

APPENDIX F

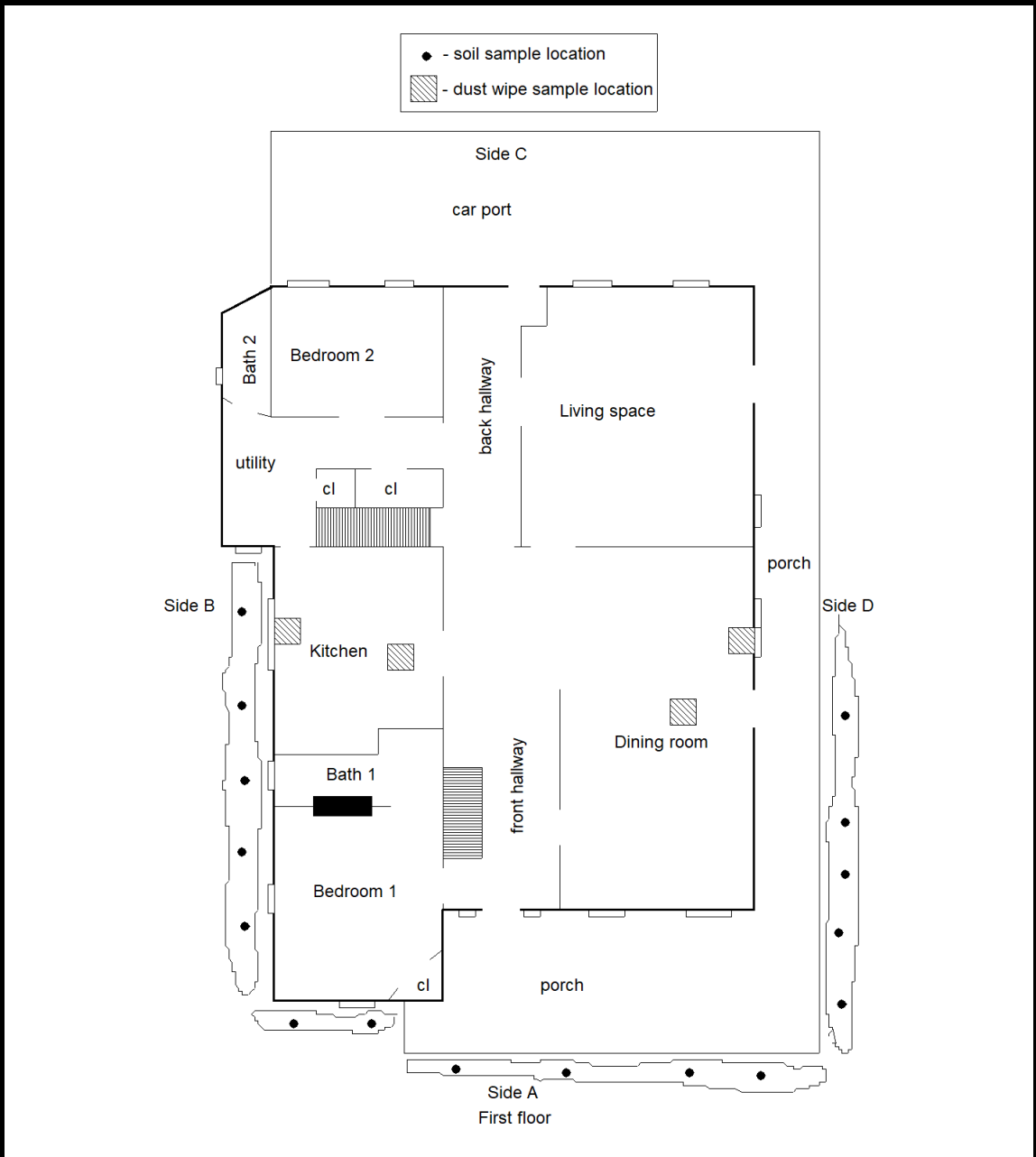
Floor Plan Drawings



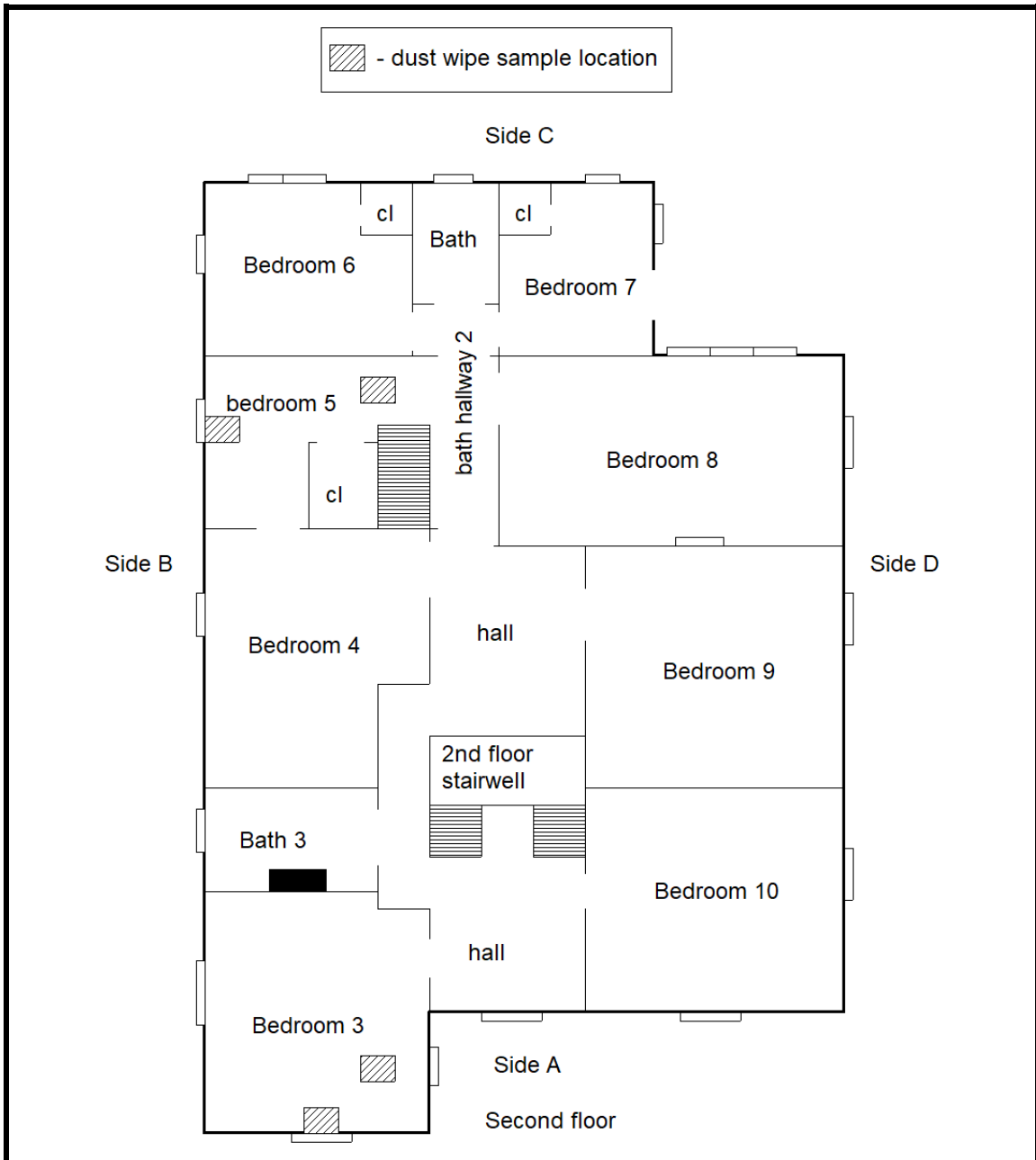
Micro-Analytics, Inc.
 3310-C Gilmore
 Industrial Blvd.
 Louisville, KY 40213
 (502)964-8737

**140 State Street, Bowling Green,
 Kentucky**

Project##	Drawn by	Scale	Date
712248	Nick Leow	NTS	February 23, 2023



Micro-Analytics, Inc. 3310-C Gilmore Industrial Blvd. Louisville, KY 40213 (502)964-8737	140 State Street, Bowling Green, Kentucky			
	Project #	Drawn by	Scale	Date
	72248	Nick Leow	NTS	February 23, 2023



Micro-Analytics, Inc. 3310-C Gilmore Industrial Blvd. Louisville, KY 40213 (502)964-8737	140 State Street, Bowling Green, Kentucky			
	Project #	Drawn by	Scale	Date
	72248	Nick Leow	NTS	February 23, 2023



3310-C Gilmore Industrial Boulevard
Louisville, KY 40213

Phone: (502) 964-8737
Facsimile: (502) 964-1123

February 24, 2023

Attn: Brad Schargorodski
City of Bowling Green
1017 College Street
Bowling Green, Kentucky

**Subject: Lead-Based Paint Inspection & Risk Assessment
For duplex located at:**

**533 East 2nd Avenue
Bowling Green, Kentucky**

Dear Brad Schargorodski:

Please find enclosed the lead-based paint inspection & risk assessment report for the duplex located at 533 East 2nd Avenue, Bowling Green, Kentucky. The XRF survey was performed within current acceptable industrial guidelines- Housing and Urban Development (HUD) guidelines Chapter 7 (Revised 2012) and Kentucky Regulations. Lead-based Paint Hazards refer to deteriorated lead-based paints, chewable surfaces, friction surfaces, impact surfaces or contaminated dust or soil above Louisville-Metro, Kentucky or Federal standards.

Micro-Analytics, Inc. conducted the lead-based paint inspection on February 24, 2023. The results of the inspection indicate that lead-based paints (LBP) and lead-based paint hazards are present. The location of LBP and LBP Hazards are summarized in Table 1 and 2 (attached). Columns have been added to Table 2 for you to record how and when the LBP hazards are corrected.

A copy of the report summary must be provided to new lessees (tenants) and purchasers of this property under Federal Law (24 CFR part 35 and 40 CFR part 745) before they become obligated under a lease or sales contract. The complete report must also be provided to new purchasers and it must be made available to new tenants. Landlords (lessors) and sellers are also required to distribute an educational pamphlet and include standard warning language in their lease or sales contract to ensure that parents have the information they need to protect their children from lead-based paint hazards.

If you have any questions or need additional information, please call us at 502-964-8737.

Sincerely,
Micro-Analytics, Inc.

Nick Leow, Lead Hazard Risk Assessor

Table 1 - Location of Lead-Based Paint

Exterior:

Component	Side	Substrate	Color
DOOR	A & B	WOOD	WHITE
DOOR CASING	A & C	WOOD	WHITE
DOOR JAMB	A & B	WOOD	WHITE
DOOR THRESHOLD	B	WOOD	BLACK
PORCH HEADER & SUPPORTS	A	WOOD	WHITE
WOOD WINDOW COMPONENTS	ALL	WOOD	WHITE
BUILDING SOFFIT & FASCIA	ALL	WOOD	WHITE

Interior:

Room Equivalent	Component	Side	Substrate	Color
APT. 1 BEDROOM	DOOR & CASING	A	WOOD	TAN
APT. 1 BEDROOM	CLOSET DOOR & CASING	A	WOOD	TAN
APT. 1 BEDROOM	WINDOW CASING & SILL	B	WOOD	WHITE
APT. 1 LIVING ROOM	BASEBOARD	ALL	WOOD	WHITE
APT. 1 LIVING ROOM	DOOR CASING	A & C	WOOD	WHITE
APT. 1 LIVING ROOM	DOOR	A	WOOD	WHITE
APT. 1 LIVING ROOM	WINDOW COMPONENTS	A & B	WOOD	WHITE
APT. 1 LIVING ROOM	FLOOR		WOOD	TAN
APT. 1 LIVING ROOM	FIREPLACE	B	WOOD	WHITE
APT. 2 LIVING ROOM	BASEBOARD	ALL	WOOD	NATURAL
APT. 2 LIVING ROOM	DOOR	B	WOOD	WHITE
APT. 2 LIVING ROOM	DOOR CASING	B & C	WOOD	WHITE
APT. 2 LIVING ROOM	WINDOW COMPONENTS	A, B & D	WOOD	WHITE
APT. 2 BEDROOM	BASEBOARD	ALL	WOOD	WHITE
APT. 2 BEDROOM	DOOR	B	WOOD	BEIGE
APT. 2 BEDROOM	WINDOW SASH & SILL	D	WOOD	BEIGE
APT. 2 BATHROOM	DOOR & DOOR CASING	B	WOOD	GREEN
APT. 2 BATHROOM	WINDOW COMPONENTS	D	WOOD	GREEN
APT. 2 KITCHEN	WALL	A, B & D	PLASTER	WHITE

Table 2 - Locations of surfaces with lead-based paint hazards:

Type of Hazard	Location		Side	Method used to Control Hazard	Date Control Implemented
DETERIORATED PAINT	EXTERIOR	DOOR	A & B		
DETERIORATED PAINT	EXTERIOR	DOOR CASING	A & C		
DETERIORATED PAINT	EXTERIOR	DOOR JAMB	A & B		
DETERIORATED PAINT	EXTERIOR	DOOR THRESHOLD	B		
DETERIORATED PAINT	EXTERIOR	PORCH HEADER & SUPPORTS	A		
DETERIORATED PAINT	EXTERIOR	WOOD WINDOW COMPONENTS	ALL		
DETERIORATED PAINT	EXTERIOR	BUILDING SOFFIT & FASCIA	ALL		
DETERIORATED PAINT	APT. 1 BEDROOM	DOOR & CASING	A		
DETERIORATED PAINT	APT. 1 BEDROOM	CLOSET DOOR & CASING	A		
DETERIORATED PAINT	APT. 1 BEDROOM	WINDOW CASING & SILL	B		
DETERIORATED PAINT	APT. 1 LIVING ROOM	BASEBOARD	ALL		
DETERIORATED PAINT	APT. 1 LIVING ROOM	DOOR CASING	A & C		
DETERIORATED PAINT	APT. 1 LIVING ROOM	DOOR	A		
DETERIORATED PAINT	APT. 1 LIVING ROOM	WINDOW COMPONENTS	A & B		
DETERIORATED PAINT	APT. 1 LIVING ROOM	FLOOR			
DETERIORATED PAINT	APT. 1 LIVING ROOM	FIREPLACE	B		
DETERIORATED PAINT	APT. 2 LIVING ROOM	BASEBOARD	ALL		
DETERIORATED PAINT	APT. 2 LIVING ROOM	DOOR	B		
DETERIORATED PAINT	APT. 2 LIVING ROOM	DOOR CASING	B & C		

Type of Hazard	Location		Side	Method used to Control Hazard	Date Control Implemented
DETERIORATED PAINT	APT. 2 LIVING ROOM	WINDOW COMPONENTS	A, B & D		
DETERIORATED PAINT	APT. 2 BEDROOM	DOOR	B		
DETERIORATED PAINT	APT. 2 BEDROOM	WINDOW SASH & SILL	D		
DETERIORATED PAINT	APT. 2 BATHROOM	DOOR & DOOR CASING	B		
DETERIORATED PAINT	APT. 2 BATHROOM	WINDOW COMPONENTS	D		
DETERIORATED PAINT	APT. 2 KITCHEN	WALL	A, B & D		
FRICION SURFACE	EXTERIOR	DOOR	A & B		
FRICION SURFACE	EXTERIOR	DOOR CASING	A & C		
FRICION SURFACE	EXTERIOR	DOOR JAMB	A & B		
FRICION SURFACE	EXTERIOR	DOOR THRESHOLD	B		
FRICION SURFACE	APT. 1 BEDROOM	DOOR & CASING	A		
FRICION SURFACE	APT. 1 BEDROOM	CLOSET DOOR & CASING	A		
FRICION SURFACE	APT. 1 LIVING ROOM	DOOR CASING	A & C		
FRICION SURFACE	APT. 1 LIVING ROOM	DOOR	A		
FRICION SURFACE	APT. 1 LIVING ROOM	FLOOR			
FRICION SURFACE	APT. 2 LIVING ROOM	DOOR	B		
FRICION SURFACE	APT. 2 LIVING ROOM	DOOR CASING	B & C		
FRICION SURFACE	APT. 2 BEDROOM	DOOR	B		

Type of Hazard	Location		Side	Method used to Control Hazard	Date Control Implemented
FRICTION SURFACE	APT. 2 BATHROOM	DOOR & DOOR CASING	B		
DUST	APT. 1 KITCHEN	FLOOR			
DUST	APT. 1 BEDROOM	FLOOR			
DUST	APT. 1 BEDROOM	WINDOWSILL	B		
DUST	APT. 2 KITCHEN	FLOOR			
DUST	APT. 2 KITCHEN	WINDOWSILL	D		
DUST	APT. 2 BEDROOM	FLOOR			
DUST	APT. 2 BEDROOM	WINDOWSILL	D		

Combination
Lead-Based Paint Inspection
& Risk Assessment Report

**for the Duplex located at:
533 East 2nd Avenue
Bowling Green, Kentucky**



**Project Number: 72250
February 24, 2023**

**Prepared For:
City of Bowling Green
1017 College Street
Bowling Green, Kentucky**

**By:
Nick Leow
Certification Number: KY 41-148
Micro-Analytics, Inc.
3310-C Gilmore Industrial Blvd.
Louisville, KY 40213
(502) 964-8737**

Lead-based Paint Inspection & Risk Assessment
533 East 2nd Avenue
Bowling Green, Kentucky

I. INTRODUCTION

Micro-Analytics Inc. was contracted by City of Bowling Green to perform a combination lead-based paint inspection / risk assessment at a duplex located at 533 East 2nd Avenue in Bowling Green, Kentucky. The dwelling was constructed prior to 1978.

Micro-Analytics, Inc. has no knowledge of any previous lead-based paint testing at this dwelling.

II. LEAD-BASED PAINT INSPECTION

Measurements of lead in paint were made by a Kentucky certified lead-based paint inspector using an XRF analyzer and a protocol based on the 2012 Housing Urban Development (HUD) Guideline inspection procedure. The instrument used was a Niton XLp-300A Lead Paint Detector and Complete Lead Analyzer XRF (Serial #15202). The Niton XLp-300A does not require making substrate corrections, nor have an inconclusive range. As such, no destructive sampling was required on painted surfaces. One XRF reading was made per painted component in each room, approximately in the center of a randomly selected quadrant of the total building component surface area. HUD/EPA Performance Characteristic Sheets included in this report were used to inventory painted surfaces and XRF results.

III. LEAD PAINT INSPECTION RESULTS

XRF Manufacturer:	Niton Corporation
XRF Serial No:	15202
Model No:	XLp-300A
License No:	401-675-20
Operator:	Nick Leow
KY Certification No:	41-148
Inspection Date:	February 24, 2023
Inspection Site:	533 East 2nd Avenue, Bowling Green, Kentucky
Age of Dwelling:	Built prior to 1978

This report was prepared exclusively for City of Bowling Green. Conditions reported are limited to those observed during the inspection / risk assessment performed on February 24, 2023, by Nick Leow, Kentucky Certified Risk Assessor (41-148).

A lead paint inspection is a surface-by-surface investigation of all surfaces with a coating, to determine the presence of lead-based paint or coatings. The lead paint inspection activities identified lead-based paint or coating on the following surfaces:

Exterior:

Component	Side	Substrate	Color
DOOR	A & B	WOOD	WHITE
DOOR CASING	A & C	WOOD	WHITE
DOOR JAMB	A & B	WOOD	WHITE
DOOR THRESHOLD	B	WOOD	BLACK
PORCH HEADER & SUPPORTS	A	WOOD	WHITE
WOOD WINDOW COMPONENTS	ALL	WOOD	WHITE
BUILDING SOFFIT & FASCIA	ALL	WOOD	WHITE

Interior:

Room Equivalent	Component	Side	Substrate	Color
APT. 1 BEDROOM	DOOR & CASING	A	WOOD	TAN
APT. 1 BEDROOM	CLOSET DOOR & CASING	A	WOOD	TAN
APT. 1 BEDROOM	WINDOW CASING & SILL	B	WOOD	WHITE
APT. 1 LIVING ROOM	BASEBOARD	ALL	WOOD	WHITE
APT. 1 LIVING ROOM	DOOR CASING	A & C	WOOD	WHITE
APT. 1 LIVING ROOM	DOOR	A	WOOD	WHITE
APT. 1 LIVING ROOM	WINDOW COMPONENTS	A & B	WOOD	WHITE
APT. 1 LIVING ROOM	FLOOR		WOOD	TAN
APT. 1 LIVING ROOM	FIREPLACE	B	WOOD	WHITE
APT. 2 LIVING ROOM	BASEBOARD	ALL	WOOD	NATURAL
APT. 2 LIVING ROOM	DOOR	B	WOOD	WHITE
APT. 2 LIVING ROOM	DOOR CASING	B & C	WOOD	WHITE
APT. 2 LIVING ROOM	WINDOW COMPONENTS	A, B & D	WOOD	WHITE
APT. 2 BEDROOM	BASEBOARD	ALL	WOOD	WHITE
APT. 2 BEDROOM	DOOR	B	WOOD	BEIGE
APT. 2 BEDROOM	WINDOW SASH & SILL	D	WOOD	BEIGE
APT. 2 BATHROOM	DOOR & DOOR CASING	B	WOOD	GREEN
APT. 2 BATHROOM	WINDOW COMPONENTS	D	WOOD	GREEN
APT. 2 KITCHEN	WALL	A, B & D	PLASTER	WHITE

IV. RISK ASSESSMENT

A risk assessment is designed to determine the existence, nature, severity and location of lead-based paint hazards in or on a residential property and for reporting the findings of the assessment and the options for controlling or abating the hazards that are found. The risk assessment was performed in accordance with selected portions of the HUD Guidelines for the evaluation and Control of Lead-based Paint Hazards in Housing, July 2012, Chapter 5.

The risk assessment included the following:

- Sampling and visually assessing the dwelling and exterior area as part of the lead paint inspection of the property.
- Visually assessment of the dwelling and paint conditions.
- Environmental sampling for dust-lead.
- Environmental sampling for soil-lead.
- Interpreting the laboratory results.
- Evaluation of collected data for the presence or absence of any lead-based paint hazards.
- Final Report that lists any hazards identified, control measures and abatement cost estimates.

V. RISK ASSESSMENT RESULTS

A. Location and Type of Identified Hazards

The building and its paint are in generally poor condition. The risk assessment showed that lead-based paint hazards (as defined by regulating agency standards – Appendix A) exist. The lead-based paint hazards identified below should receive priority attention.

Deteriorated Paint Hazards

Location of deteriorated paint hazards		
Location	Structure	Side
EXTERIOR	DOOR	A & B
EXTERIOR	DOOR CASING	A & C
EXTERIOR	DOOR JAMB	A & B
EXTERIOR	DOOR THRESHOLD	B
EXTERIOR	PORCH HEADER & SUPPORTS	A
EXTERIOR	WOOD WINDOW COMPONENTS	ALL
EXTERIOR	BUILDING SOFFIT & FASCIA	ALL
APT. 1 BEDROOM	DOOR & CASING	A
APT. 1 BEDROOM	CLOSET DOOR & CASING	A
APT. 1 BEDROOM	WINDOW CASING & SILL	B
APT. 1 LIVING ROOM	BASEBOARD	ALL
APT. 1 LIVING ROOM	DOOR CASING	A & C
APT. 1 LIVING ROOM	DOOR	A
APT. 1 LIVING ROOM	WINDOW COMPONENTS	A & B
APT. 1 LIVING ROOM	FLOOR	
APT. 1 LIVING ROOM	FIREPLACE	B
APT. 2 LIVING ROOM	BASEBOARD	ALL
APT. 2 LIVING ROOM	DOOR	B
APT. 2 LIVING ROOM	DOOR CASING	B & C
APT. 2 LIVING ROOM	WINDOW COMPONENTS	A, B & D
APT. 2 BEDROOM	DOOR	B
APT. 2 BEDROOM	WINDOW SASH & SILL	D
APT. 2 BATHROOM	DOOR & DOOR CASING	B
APT. 2 BATHROOM	WINDOW COMPONENTS	D
APT. 2 KITCHEN	WALL	A, B & D

Chewed Surface Hazards

Location of chewed surface hazards		
Location	Structure	Side
None		

Friction Surface Hazards

Location of friction surface hazards		
Location	Structure	Side
EXTERIOR	DOOR	A & B
EXTERIOR	DOOR CASING	A & C
EXTERIOR	DOOR JAMB	A & B
EXTERIOR	DOOR THRESHOLD	B
APT. 1 BEDROOM	DOOR & CASING	A
APT. 1 BEDROOM	CLOSET DOOR & CASING	A
APT. 1 LIVING ROOM	DOOR CASING	A & C
APT. 1 LIVING ROOM	DOOR	A
APT. 1 LIVING ROOM	FLOOR	
APT. 2 LIVING ROOM	DOOR	B
APT. 2 LIVING ROOM	DOOR CASING	B & C
APT. 2 BEDROOM	DOOR	B
APT. 2 BATHROOM	DOOR & DOOR CASING	B

Impact Surface Hazards

Location of impact surface hazards		
Location	Structure	Side
None		

Dust-Lead Hazards

Location of dust-lead hazards		
Location	Structure	Side
APT. 1 KITCHEN	FLOOR	
APT. 1 BEDROOM	FLOOR	
APT. 1 BEDROOM	WINDOWSILL	B
APT. 2 KITCHEN	FLOOR	
APT. 2 KITCHEN	WINDOWSILL	D
APT. 2 BEDROOM	FLOOR	
APT. 2 BEDROOM	WINDOWSILL	D

Soil-Lead Hazards

Location of soil-lead hazards	Side
NONE	

Intact LBP Surfaces Being Disturbed by Renovation or Maintenance

Location of intact LBP surfaces being disturbed		
Location	Structure	Side
UNKNOWN		

B. Location and Type of Lead-Based Painted Surfaces in Intact Condition

Other painted surfaces have been identified as in “intact” condition. These surfaces are not considered to be immediate “hazards”. Lead-Based Painted surfaces in “intact” condition are reported on the Visual Assessment of Lead-Based Paint Form included in Appendix B.

C. Ongoing Monitoring and Re-evaluation

Lead-based paint and lead-based paint hazards have been identified at the dwelling. Re-evaluation guidelines apply to this property.

Ongoing monitoring is necessary in all dwellings in which LBP is known or presumed to be present. At these dwellings, the very real potential exists for LBP hazards to develop. Hazards can develop by means such as, but not limited to: the failure of lead hazard control measures; previously intact LBP becoming deteriorated; dangerous levels of dust lead re-accumulating through friction, impact, and deterioration of paint; or, through the introduction of contaminated exterior dust and soil into the interior of the structure. Ongoing monitoring typically includes two different activities: re-evaluation and annual visual assessments. A re-evaluation is a risk assessment that includes limited soil and dust sampling and a visual evaluation of paint films and any existing lead hazard controls. Re-evaluations are supplemented with visual assessments by the Client, which should be conducted at least once a year, when the Client or its management agent (if the housing is rented in the future) receives complaints from residents about deteriorated paint or other potential lead hazards, when the residence (or if, in the future, the house will have more than one dwelling unit, any unit that turns over or becomes vacant), or when significant damage occurs that could affect the integrity of hazard control treatments (e.g., flooding, vandalism, fire). The visual assessment should cover the dwelling unit (if, in the future, the housing will have more than one dwelling unit, each unit and each common area used by residents), exterior painted surfaces, and ground cover (if control of soil-lead hazards is required or recommended). Visual assessments should confirm that all paint with known or suspected LBP is not deteriorating, that lead hazard control methods have not failed, and that structural problems do not threaten the integrity of any remaining known, presumed or suspected LBP.

The visual assessments do not replace the need for professional re-evaluations by a certified Risk Assessor. The re-evaluation should include:

1. A review of prior reports to determine where lead-based paint and lead-based paint hazards have been found, what controls were done, and when these findings and controls happened;
2. A visual assessment to identify deteriorated paint, failures of previous hazard controls, visible dust and debris, and bare soil;

3. Environmental testing for lead in dust, newly deteriorated paint, and newly bare soil; and

4. A report describing the findings of the re-evaluation, including the location of any lead-based paint hazards, the location of any failures of previous hazard controls, and, as needed, acceptable options for the control of hazards, the repair of previous controls, and modification of monitoring and maintenance practices.

The first re-evaluation should be conducted no later than two years after completion of hazard controls, or, if specific controls or treatments are not conducted, two years from the beginning of ongoing lead-based paint monitoring and maintenance activities. Subsequent re-evaluations should be conducted at intervals of two years, plus or minus 60 days. If two consecutive re-evaluations are conducted two years apart without finding a lead-based paint hazard, re-evaluation may be discontinued.

VI. BUILDING CONDITION FORM

Condition	Yes	No
Roof missing parts of surfaces (tiles, boards, shakes, etc.)		X
Roof has holes or large cracks	X	
Gutters or downspouts broken or missing	X	
Chimney: masonry cracked, bricks loose or broken, out of plumb		X
Exterior or interior walls have large cracks or holes requiring more than routine pointing or painting	X	
Exterior siding has missing boards or shingles		X
Water stains on interior walls or ceilings	X	
Walls or ceilings deteriorated	X	
More than the de minimis amount of paint in a room deteriorated	X	
Two or more windows or doors broken, missing, or boarded up	X	
Porch or steps have major elements broken, missing, or boarded up		X
Foundation has major cracks, missing material, structural leans, or visibly unsound		X
Total number	7	5

If the “Yes” column any checks, the dwelling is usually considered not to be in good condition for the purpose of a risk assessment, and a lead hazard screen is not advisable.

VII. FIELD SAMPLING FORM FOR DUST

Name of Risk Assessor: Nick Leow
Name of Client: City of Bowling Green
Property Address: 533 East 2nd Avenue, Bowling Green, Kentucky
Target dwelling criteria: Random Sampling

Sample Number	Room	Surface Type	Is surface smooth and cleanable?	Area (ft ²)	Results of lab analysis (µg/ft ²)
1	Apt. 1 kitchen	Floor	Yes	1.00	81.5
2	Apt. 1 kitchen	Window sill	Yes	0.312	81.6
3	Apt. 1 bedroom	Floor	Yes	1.00	15.5
4	Apt. 1 bedroom	Window sill	Yes	0.312	469
5	Apt. 2 kitchen	Floor	Yes	1.00	144
6	Apt. 2 kitchen	Window sill	Yes	0.312	350
7	Apt. 2 bedroom	Floor	Yes	1.00	113
8	Apt. 2 bedroom	Window sill	Yes	0.312	1270

Standards: 10 µg/ft² (floors)
100 µg/ft² (interior window sills)

VIII. FIELD SAMPLING FORM FOR SOIL

Name of Risk Assessor: Nick Leow

Name of Client: City of Bowling Green

Property Address: 533 East 2nd Avenue, Bowling Green, Kentucky

Sample Number	Location	Bare or Covered	Lab Result (PPM)
09	Dripline side A	Bare	920
10	Dripline side B	Bare	410
11	Dripline side C	Bare	480
12	Dripline side D	Bare	230

Standard: 400 PPM (play areas)
1,200 PPM (rest of the yard)

IX. LEAD HAZARD CONTROLS

The homeowner may select the following forms of lead hazard control, all of the below lead hazard control measures are acceptable based on Federal Regulations and HUD Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing.

A) Lead Based Paint Classified as Intact:

- Re-evaluate lead-based paint surfaces every twelve months in accordance with 24 CFR Part 35.1355.
- Re-evaluation performed every three years by an independent risk assessment firm.
- Abatement (i.e. enclosure, encapsulation, removal or replacement) may be used at any time in lieu of interim controls.

B) Lead Based Paint Classified as Deteriorated:

- Correct all defective lead-based paint surfaces to intact condition. Re-evaluate all painted surfaces every twelve months in accordance with 24 CFR Part 35.1355.
- Corrective actions shall be performed in accordance with both interim Control Measures described in 24 CFR 35.1330 and Safe Work Practices as described in 24 CFR 35.1350.
- Clearance examinations shall be performed when Interim Controls, Paint Stabilization, Standard Treatments, On-going Lead-based Paint maintenance or rehabilitation is conducted in accordance with 24 CFR 35.1340.
- Re-evaluation performed every two years by an independent risk assessment firm.
- Abatement (i.e. enclosure, encapsulation, removal or replacement) may be used at any time in lieu of interim controls.

C) Lead Based Paint Classified as Deteriorated on stair treads and risers:

- Remove loose lead-based paint. Install protective covering on treads and risers.
- Re-evaluate all painted surfaces every twelve months in accordance with 24 CFR Part 35.1355.
- Corrective actions shall be performed in accordance with both interim Control Measures described in 24 CFR 35.1330 and Safe Work Practices as described in 24 CFR 35.1350.
- Clearance examinations shall be performed when Interim Controls, Paint Stabilization, Standard Treatments, On-going Lead-based Paint maintenance or rehabilitation is conducted in accordance with 24 CFR 35.1340.
- Re-evaluation performed every two years by an independent risk assessment firm.
- Abatement (i.e. enclosure, encapsulation, removal or replacement) may be used at any time in lieu of interim controls.

D) Lead Based Paint Classified as Deteriorated on windows:

- Remove loose lead-based paint. Install window glides or channels. Lubricate and re-evaluate every twelve months, in accordance with 24 CFR 35.1355.
- Corrective actions shall be performed in accordance with both interim Control Measures described in 24 CFR 35.1330 and Safe Work Practices as described in 24 CFR 35.1350.
- Clearance examinations shall be performed when Interim Controls, Paint Stabilization, Standard Treatments, On-going Lead-based Paint maintenance or rehabilitation is conducted in accordance with 24 CFR 35.1340.
- Re-evaluation performed every two years by an independent risk assessment firm.
- Abatement (i.e. enclosure, encapsulation, removal or replacement) may be used at any time in lieu of interim controls.

E) Dust-lead hazards on window sills:

- Perform specialized cleaning in accordance with 24 CFR 35.1350 (c).
- Lubricate adjacent friction surfaces (i.e. window sashes).
- Clearance examinations shall be performed when Interim Controls, Paint Stabilization, Standard Treatments, On-going Lead-based Paint maintenance or rehabilitation is conducted in accordance with 24 CFR 35.1340.
- Re-evaluation performed every two years by an independent risk assessment firm.
- Abatement (i.e. enclosure, encapsulation, removal or replacement) may be used at any time in lieu of interim controls.

F) Dust-lead hazards on hard surfaced floors:

Perform specialized cleaning in accordance with 24 CFR 35.1350 (c).

- Lubricate adjacent friction surfaces (i.e. window sashes).
- Correct Lead based Paint Hazards if present.
- Make all bare floors smooth and cleanable.
- Clearance examinations shall be performed when Interim Controls, Paint Stabilization, Standard Treatments, On-going Lead-based Paint maintenance or rehabilitation is conducted in accordance with 24 CFR 35.1340.
- Re-evaluation performed every two years by an independent risk assessment firm.
- Abatement (i.e. enclosure, encapsulation, removal or replacement) may be used at any time in lieu of interim controls.

G) Dust-lead hazards on dwelling carpet floors (Carpet):

- Correct Lead based Paint Hazards if present.
- Lubricate adjacent friction surfaces (i.e. window sashes and door hinges).

- Re-hang doors to prevent friction and impact damage.
- Perform specialized cleaning in accordance with 24 CFR 35.1350 (c).
- Steam-cleaning carpeting.
- Clearance examinations shall be performed when Interim Controls, Paint Stabilization, Standard Treatments, On-going Lead-based Paint maintenance or rehabilitation is conducted in accordance with 24 CFR 35.1340.
- For common areas, install door mats at building entrance.
- Re-evaluation performed every two years by an independent risk assessment firm.
- Abatement (i.e. enclosure, encapsulation, removal or replacement) may be used at any time in lieu of interim controls.

H) Soil-lead hazards of greater than 1200 but less than 5000 PPM in general yard and drip line and less than 400 PPM in play areas:

- Apply an impermanent surface covering which may include grass (seed or sod) or other ground cover (i.e. ivy), artificial turf, bark, mulch and gravel.
- If bark or gravel is selected, apply a covering of at least six to twelve inches deep. These materials should contain less than 50 PPM of lead.
- Re-evaluate all soil conditions every 12 months, in accordance with 24 CFR Part 35.1355.
- Re-evaluation performed every two years by an independent risk assessment firm.
- Abatement (removal and replacement) may be used at any time in lieu of interim controls.

I) Soil-lead hazards greater than or equal to 5000 PPM:

- Abatement is required in accordance with 40 CFR 745.227(e).

Abatement (i.e. enclosure, encapsulation, removal or replacement) may be used at any time in lieu of interim controls.

The term “interim controls” means a set of measures designed to reduce temporarily human exposure or likely exposure to lead-based paint hazards, including specialized cleaning, repairs, maintenance, painting, temporary containment, ongoing monitoring of lead-based paint hazards or potential hazards, and the establishment and operation of management and resident education programs.

The term “abatement” means any set of measures designed to permanently eliminate lead-based paint hazards in accordance with standards established by appropriate Federal agencies.

After any abatement or paint stabilization or cleaning work has been completed, clearance dust samples must be taken to make certain that the dwelling is lead-safe before the family reoccupies the work areas.

X. COST ESTIMATES

DETERIORATED POSITIVE RESULTS PAINT STABILIZATION WORKSHEET

- ◆ Remove all loose surface contaminants - wetting surface to minimize dust as you work
- ◆ Repair any areas of the surface that are not in good condition.
- ◆ De-gloss surfaces to be painted using wet sanding or a de-glossing paint.
- ◆ Prepare surface by using an appropriate cleaning agent before applying new paint
- ◆ Use a primer before applying new paint to all surfaces

Location and Description of Lead-based Paint – Deteriorated	Estimated Cost
Exterior doors, side A & B	\$200.00
Exterior door casings, side A & C	200.00
Exterior door jambs, side A & B	200.00
Exterior door threshold, side B	50.00
Exterior porch header & supports, side A	200.00
Exterior wood window components, all sides	3200.00
Exterior wood soffit & fascia, all sides	2000.00
Apt. 1 bedroom door & casing, side A	200.00
Apt. 1 bedroom closet door & casing, side A	200.00
Apt. 1 bedroom window casing & sill, side A	100.00
Apt. 1 living room baseboard, all sides	200.00
Apt. 1 living room door casing, side A & C	200.00
Apt. 1 living room door, side A	100.00
Apt. 1 living room window components, side A & B	400.00
Apt. 1 living room floor	200.00
Apt. 1 living room fireplace, side B	100.00
Apt. 2 living room baseboard, all sides	200.00
Apt. 2 living room door, side B	100.00
Apt. 2 living room door casing, side B & C	200.00
Apt. 2 living room window components, side A, B & D	600.00
Apt. 2 bedroom door, side B	100.00
Apt. 2 bedroom window sash & sill, side D	200.00
Apt. 2 bathroom window components, side D	200.00
Apt. 2 bathroom door & door casing, side B	200.00
Apt. 2 kitchen wall, side A, B & D	300.00
Estimated cost for Paint Stabilization and Repainting	\$9850.00

The above cost estimates are for paint stabilization activities to be performed on these components.

Location and Description of Chewed Surface Hazard	Estimated Costs
None	

Location and Description of Friction Surface Hazard	Estimated Costs
Exterior doors, side A & B	\$200.00
Exterior door casings, side A & C	200.00
Exterior door jambs, side A & B	200.00
Exterior door threshold, side B	50.00
Apt. 1 bedroom door & casing, side A	200.00
Apt. 1 bedroom closet door & casing, side A	200.00
Apt. 1 living room door casing, side A & C	200.00
Apt. 1 living room door, side A	100.00
Apt. 1 living room floor	200.00
Apt. 2 living room door, side B	100.00
Apt. 2 living room door casing, side B & C	200.00
Apt. 2 bedroom door, side B	100.00
Apt. 2 bathroom door & door casing, side B	200.00

Location and Description of Impact Surface Hazard	Estimated Costs
None	

Location and Description of Dust-Lead clean-up areas	Estimated Costs
Apt. 1 kitchen floor	\$50.00
Apt. 1 bedroom floor & windowsills	100.00
Apt. 2 kitchen floor & windowsills	100.00
Apt. 2 bedroom floor & kitchen	100.00

Location and Description of Soil-Lead Hazards	Estimated Costs
None	

Location and Description of Intact Surfaces Being Disturbed	Estimated Costs
Unknown	

Additional Notes:

1) When maintenance or other work impacts a material, surface coating, substrate, component, or surface and its lead content is not known, those areas and/or items must be presumed to be lead-based paint.

2) During the period of lead hazard control activities, daily clean-up of the work areas should be performed. Accumulation of debris should be prevented. All trash must be disposed of promptly and properly. At the end of each day, time must be reserved for a thorough cleaning of the work area.

The cost above includes labor, worker protection, and site containment and clean up. These are only very rough estimates that may be impacted by multiply factors, such as time of year; time allotted for completion and replacement material expenses.

Please review the above lead hazard control options. Once a decision to perform interim controls, abatement or a combination of both has been decided, Micro-Analytics, Inc. would be pleased to provide a cost estimate for a Lead Hazard Design Plan, Lead Hazard Controls and Clearance.

XI. INACCESSIBLE AREAS

Only readily accessible areas were evaluated. Generally, the following areas were considered inaccessible:

- Original walls, ceiling surfaces or stair components enclosed with wallboard or similar material.
- Locked areas.

XII. CERTIFICATION

The Environmental Inspector certifies to the Client – (Principal Party) as named in the inspection report, and the Inspector and the Client agree that:

1. The Risk Assessor has no present or contemplated future (a) partnership with the Principal Party nor (b) an interest in the property inspected which could adversely affect the Inspector's ability to perform an objective inspection; and neither the employment of the Inspector to conduct the inspection, nor the compensation for it, is contingent on the results of this inspection.
2. The Risk Assessor has no personal interest in or bias with respect to the subject matter of the report or any parties who may be part of a financial transaction involving the property. The conclusions and recommendations of the report are not based in whole or in part upon the race, color, creed, sex, or national origin of any of the principal parties.
3. Any sketch appearing in or attached to the report, or any statement of dimensions, capacities, quantities, or distances, are approximate and are included to assist the reader in visualizing the dwelling.
4. The Risk Assessor is not required to give testimony, or appear in court because of having made the inspection with reference to the property in question, unless arrangements have been previously made therefore.
5. The Risk Assessor assumes that there are no hidden, unapparent, or latent conditions or defects in or on the property, other than those noted on the report or any addendum to the report which the Inspector has included. The Inspector assumes no responsibility for such conditions, or for inspection, engineering or repair which might be required to discover or correct such factors.
6. All contingent and limiting conditions are contained herein (imposed by terms of the inspection assignment or by the undersigned) affecting the conclusions and recommendations contained in the report.
7. This inspection and report has been conducted and prepared in conformity with principals, practices, and standards that are generally accepted throughout the industry.
8. All opinions, conclusions, and recommendations concerning the inspected property that are set forth in the report were prepared by the Risk Assessor whose signature appears on the report. No change of any item in the report shall be made by anyone other than the Inspector, and the Inspector shall have no responsibility for any such unauthorized change.

XIII. CONTINGENT AND LIMITING CONDITIONS

1. The certification of the Risk Assessor appearing in the inspection report is subject to the following conditions and to such other specific and limiting conditions as are set forth by the Inspector in the report:
2. The Inspector assumes no responsibility for matters of a legal nature affecting the property inspected.
3. Information, estimates and opinions furnished to the Inspector, and contained in the report, were obtained from sources considered reliable and are believed to be true and correct. However, the Inspector has made no independent investigation as to such matters and undertakes no responsibility for the accuracy of such items.
4. The Inspection and Risk Assessment report are made by the Risk Assessor solely for the benefit and personal use of the principal party. No disclosure may be made of the inspection report without prior written consent of the Inspector, and the Inspector undertakes no responsibility for harm or damage to any party other than the Principal Party.
5. Neither the inspection report, or any part thereof, nor any copy of the same (including results or recommendations, the identity of the Inspector, professional designations, reference to any professional organization, or firm with which the Inspector is connected), shall be used for any purpose by anyone but the Principal Party. The report shall not be conveyed by anyone to the public through advertising, public relations, news, sales, or other media, without prior written consent and approval of the Inspector.



Nick Leow, Certified Risk Assessor

March 7, 2023

Date of Signature

APPENDIX A

Regulatory Standards for Lead-Based Paint Hazards

Deteriorated Paint Hazards

The following lead levels are used to determine if paint or similar coatings are considered as lead-based paint, as well as a lead-based paint hazard.

The federal and state standard is:

one (1.0) milligram per square centimeter (mg/cm^2), which can be measured by either portable XRF or laboratory analysis, or

five-tenths (0.5) percent by weight, which can only be measured by laboratory analysis.

The Louisville-Metro standard is

0.7 milligram per square centimeter (mg/cm^2), which can be measured by either portable XRF or laboratory analysis, or

thirty five hundredths (0.35) percent by weight, which can only be measured by laboratory analysis.

Chewed Surface Hazards

The federal standard is “an interior or exterior surface painted with lead-based paint that a young child can mouth or chew. Hard metal surfaces and other surfaces that cannot be dented by the bite of a young child are not considered chewable.”

Friction Surface Hazards

The federal standard is “ any lead-based paint on a friction surface that is subject to abrasion and where the lead-dust on the nearest horizontal surface underneath the friction surface equals or exceeds the applicable lead-dust standard.”

Impact Surface Hazard

The federal standard defines an impact surface as a hazard when “there is damaged or otherwise deteriorated lead-based paint on an interior or exterior surface that is subject to damage by repeated sudden force that is caused by impact from a related building component.”

Dust-Lead Hazards

The following lead levels are used to determine a dust-lead hazard in a residential structure or child-occupied facility.

Floors – 10 $\mu\text{g}/\text{ft}^2$ (micrograms per square foot)
Interior Window Sills – 100 $\mu\text{g}/\text{ft}^2$
Window Troughs – 100 $\mu\text{g}/\text{ft}^2$

Soil-Lead Hazards

Federal standards consider soil to be a soil-lead hazard on residential property or child-occupied facility if the lead level is equal to or exceeds the following:

in a play area – 400 PPM (parts per million)
drip line and rest of yard – 1,200 PPM

APPENDIX B

Condition of Lead-Based Paint Form

The HUD regulation defines deteriorated paint as:

“Any interior or exterior paint or other coating that is peeling, chalking, chipping, 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.”

Condition of Lead-Based Paint

Location	Component	Side	Coating Condition	Substrate	Deterioration due to friction or impact ?	Deterioration due to moisture ?	Component has visual bite marks ?
APT. 1 BED	DOOR	A	DETERIORATED	WOOD	YES	NO	NO
APT. 1 BED	DOORCASING	A	DETERIORATED	WOOD	YES	NO	NO
APT. 1 BED	WINDOW CASING	B	DETERIORATED	WOOD	NO	YES	NO
APT. 1 BED	WINDOW SILL	B	DETERIORATED	WOOD	NO	YES	NO
APT. 1 BED	CLOSET DOOR	A	DETERIORATED	WOOD	YES	NO	NO
APT. 1 BED	CLOSET CASING	A	DETERIORATED	WOOD	YES	NO	NO
APT. 1 LIVING ROOM	BASEBOARD	ALL	DETERIORATED	WOOD	YES	NO	NO
APT. 1 LIVING ROOM	DOORCASING	C	DETERIORATED	WOOD	YES	NO	NO
APT. 1 LIVING ROOM	DOOR	A	DETERIORATED	WOOD	YES	NO	NO
APT. 1 LIVING ROOM	DOORCASING	A	DETERIORATED	WOOD	YES	NO	NO
APT. 1 LIVING ROOM	WINDOW SASH	A	DETERIORATED	WOOD	NO	YES	NO
APT. 1 LIVING ROOM	WINDOW CASING	A	DETERIORATED	WOOD	NO	YES	NO
APT. 1 LIVING ROOM	WINDOW SILL	A	DETERIORATED	WOOD	NO	YES	NO
APT. 1 LIVING ROOM	WINDOW SASH	B	DETERIORATED	WOOD	NO	YES	NO
APT. 1 LIVING ROOM	WINDOW CASING	B	DETERIORATED	WOOD	NO	YES	NO
APT. 1 LIVING ROOM	WINDOW SILL	B	DETERIORATED	WOOD	NO	YES	NO
APT. 1 LIVING ROOM	FLOOR	NA	DETERIORATED	WOOD	YES	NO	NO
APT. 1 LIVING ROOM	FIREPLACE	B	DETERIORATED	WOOD	YES	NO	NO
APT. 2 LIVING ROOM	BASEBOARD	ALL	DETERIORATED	WOOD	YES	NO	NO
APT. 2 LIVING ROOM	DOOR	B	DETERIORATED	WOOD	YES	NO	NO
APT. 2 LIVING ROOM	DOORCASING	B	DETERIORATED	WOOD	YES	NO	NO

APT. 2 LIVING ROOM	DOORCASING	C	DETERIORATED	WOOD	YES	NO	NO
APT. 2 LIVING ROOM	WINDOW SASH	A	DETERIORATED	WOOD	NO	YES	NO
APT. 2 LIVING ROOM	WINDOW CASING	A	DETERIORATED	WOOD	NO	YES	NO
APT. 2 LIVING ROOM	WINDOW SILL	A	DETERIORATED	WOOD	NO	YES	NO
APT. 2 LIVING ROOM	WINDOW SASH	B	DETERIORATED	WOOD	NO	YES	NO
APT. 2 LIVING ROOM	WINDOW CASING	B	DETERIORATED	WOOD	NO	YES	NO
APT. 2 LIVING ROOM	WINDOW SILL	B	DETERIORATED	WOOD	NO	YES	NO
APT. 2 LIVING ROOM	WINDOW SASH	D	DETERIORATED	WOOD	NO	YES	NO
APT. 2 LIVING ROOM	WINDOW CASING	D	DETERIORATED	WOOD	NO	YES	NO
APT. 2 LIVING ROOM	WINDOW SILL	D	DETERIORATED	WOOD	NO	YES	NO
APT. 2 BEDROOM	BASEBOARD	ALL	INTACT	WOOD	NO	NO	NO
APT. 2 BEDROOM	DOOR	B	DETERIORATED	WOOD	YES	NO	NO
APT. 2 BEDROOM	WINDOW SASH	NA	DETERIORATED	WOOD	NO	YES	NO
APT. 2 BEDROOM	WINDOW SILL	NA	DETERIORATED	WOOD	NO	YES	NO
APT. 2 BATHROOM	DOOR	B	DETERIORATED	WOOD	YES	NO	NO
APT. 2 BATHROOM	DOORCASING	B	DETERIORATED	WOOD	YES	NO	NO
APT. 2 BATHROOM	WINDOW SASH	D	DETERIORATED	WOOD	NO	YES	NO
APT. 2 BATHROOM	WINDOW CASING	D	DETERIORATED	WOOD	NO	YES	NO
APT. 2 BATHROOM	WINDOW SILL	D	DETERIORATED	WOOD	NO	YES	NO
APT. 2 KITCHEN	WALL	A	DETERIORATED	DRYWALL	YES	NO	NO
APT. 2 KITCHEN	WALL	B	DETERIORATED	DRYWALL	YES	NO	NO
APT. 2 KITCHEN	WALL	D	DETERIORATED	DRYWALL	YES	NO	NO
EXTERIOR	DOOR	A	DETERIORATED	WOOD	YES	YES	NO
EXTERIOR	DOOR CASING	A	DETERIORATED	WOOD	YES	YES	NO
EXTERIOR	DOOR JAMB	A	DETERIORATED	WOOD	YES	YES	NO
EXTERIOR	WINDOW SASH	A	DETERIORATED	WOOD	NO	YES	NO
EXTERIOR	WINDOW CASING	A	DETERIORATED	WOOD	NO	YES	NO
EXTERIOR	WINDOW SILL	A	DETERIORATED	WOOD	NO	YES	NO
EXTERIOR	WINDOW TROUGH	A	DETERIORATED	WOOD	NO	YES	NO
EXTERIOR	PORCH HEADER	A	DETERIORATED	WOOD	NO	YES	NO
EXTERIOR	PORCH SUPPORTS	A	DETERIORATED	WOOD	NO	YES	NO
EXTERIOR	BUILDING FASCIA	A	DETERIORATED	WOOD	NO	YES	NO

EXTERIOR	BUILDING SOFFIT	A	DETERIORATED	WOOD	NO	YES	NO
EXTERIOR	DOOR	B	DETERIORATED	WOOD	YES	YES	NO
EXTERIOR	DOOR JAMB	B	DETERIORATED	WOOD	YES	YES	NO
EXTERIOR	DOOR THRESHOLD	B	DETERIORATED	WOOD	YES	YES	NO
EXTERIOR	WINDOW SASH	B	DETERIORATED	WOOD	NO	YES	NO
EXTERIOR	WINDOW CASING	B	DETERIORATED	WOOD	NO	YES	NO
EXTERIOR	WINDOW SILL	B	DETERIORATED	WOOD	NO	YES	NO
EXTERIOR	WINDOW TROUGH	B	DETERIORATED	WOOD	NO	YES	NO
EXTERIOR	DOOR CASING	C	DETERIORATED	WOOD	YES	YES	NO
EXTERIOR	ORIGINAL BUILDING FASCIA	C	DETERIORATED	WOOD	NO	YES	NO
EXTERIOR	ORIGINAL BUILDING SOFFIT	C	DETERIORATED	WOOD	NO	YES	NO
EXTERIOR	WINDOW SASH	D	DETERIORATED	WOOD	NO	YES	NO
EXTERIOR	WINDOW CASING	D	DETERIORATED	WOOD	NO	YES	NO
EXTERIOR	ORIGINAL BUILDING FASCIA	D	DETERIORATED	WOOD	NO	YES	NO
EXTERIOR	ORIGINAL BUILDING SOFFIT	D	DETERIORATED	WOOD	NO	YES	NO

APPENDIX C

XRF RESULTS

Reading No.	Floor	Room	Structure	Side	Condition	Substrate	Color	Lead Concentration
								mg/cm ²
1		CALIBRATION	NA	NA	NA	NA	NA	1.00
2		CALIBRATION	NA	NA	NA	NA	NA	1.00
3		CALIBRATION	NA	NA	NA	NA	NA	1.00
4	1	APT. 1 BATH	WALL	A	DETERIORATED	DRYWALL	WHITE	0.00
5	1	APT. 1 BATH	WALL	B	DETERIORATED	DRYWALL	WHITE	0.00
6	1	APT. 1 BATH	WALL	C	DETERIORATED	DRYWALL	WHITE	0.00
7	1	APT. 1 BATH	WALL	D	DETERIORATED	DRYWALL	WHITE	0.00
8	1	APT. 1 BATH	CEILING	NA	DETERIORATED	DRYWALL	WHITE	0.00
9	1	APT. 1 BATH	BASEBOARD	A, B, C, D	DETERIORATED	WOOD	WHITE	0.00
10	1	APT. 1 BATH	DOOR	B	DETERIORATED	WOOD	WHITE	0.01
11	1	APT. 1 BATH	DOORCASING	B	DETERIORATED	WOOD	WHITE	0.00
12	1	APT. 1 BATH	WINDOW SASH	C	DETERIORATED	WOOD	WHITE	0.00
13	1	APT. 1 BATH	WINDOW CASING	C	DETERIORATED	WOOD	WHITE	0.01
14	1	APT. 1 BATH	WINDOW SILL	C	DETERIORATED	WOOD	WHITE	0.01
15	1	APT. 1 KITCHEN	WALL	A	DETERIORATED	CONCRETE	WHITE	0.60
16	1	APT. 1 KITCHEN	WALL	B	DETERIORATED	DRYWALL	WHITE	0.00
17	1	APT. 1 KITCHEN	WALL	C	DETERIORATED	DRYWALL	WHITE	0.00
18	1	APT. 1 KITCHEN	WALL	D	DETERIORATED	DRYWALL	WHITE	0.00
19	1	APT. 1 KITCHEN	CEILING	NA	DETERIORATED	DRYWALL	WHITE	0.00
20	1	APT. 1 KITCHEN	BASEBOARD	A, B, C, D	DETERIORATED	WOOD	WHITE	0.05
21	1	APT. 1 KITCHEN	DOOR	C	DETERIORATED	WOOD	WHITE	0.00
22	1	APT. 1 KITCHEN	DOORCASING	C	DETERIORATED	WOOD	WHITE	0.06
23	1	APT. 1 KITCHEN	DOOR	D	DETERIORATED	WOOD	WHITE	0.01
24	1	APT. 1 KITCHEN	DOORCASING	D	DETERIORATED	WOOD	WHITE	0.05
25	1	APT. 1 KITCHEN	WINDOW SASH	B	DETERIORATED	WOOD	WHITE	0.01
26	1	APT. 1 KITCHEN	WINDOW CASING	B	DETERIORATED	WOOD	WHITE	0.01
27	1	APT. 1 KITCHEN	WINDOW SILL	B	DETERIORATED	WOOD	WHITE	0.01
28	1	APT. 1 KITCHEN	WINDOW SASH	C	DETERIORATED	WOOD	WHITE	0.01
29	1	APT. 1 KITCHEN	WINDOW CASING	C	DETERIORATED	WOOD	WHITE	0.00
30	1	APT. 1 KITCHEN	WINDOW SILL	C	DETERIORATED	WOOD	WHITE	0.01
31	1	APT. 1 KITCHEN	DOOR CASING	A	DETERIORATED	WOOD	WHITE	0.00
32	1	APT. 1 KITCHEN	DOOR CASING	A	DETERIORATED	WOOD	WHITE	0.00
33	1	APT. 1 BED	WALL	A	INTACT	PANEL	NATURAL	0.00
34	1	APT. 1 BED	WALL	B	INTACT	PANEL	NATURAL	0.00
35	1	APT. 1 BED	WALL	C	INTACT	PANEL	NATURAL	0.00
36	1	APT. 1 BED	WALL	D	INTACT	PANEL	NATURAL	0.00
37	1	APT. 1 BED	CEILING	NA	DETERIORATED	PLYWOOD	TAN	0.00
38	1	APT. 1 BED	BASEBOARD	A, B, C, D	DETERIORATED	WOOD	TAN	0.12
39	1	APT. 1 BED	DOOR	A	DETERIORATED	WOOD	TAN	2.20
40	1	APT. 1 BED	DOORCASING	A	DETERIORATED	WOOD	TAN	17.70

41	1	APT. 1 BED	DOOR	C	DETERIORATED	WOOD	TAN	0.20
42	1	APT. 1 BED	DOORCASING	C	DETERIORATED	WOOD	TAN	0.40
43	1	APT. 1 BED	WINDOW CASING	B	DETERIORATED	WOOD	WHITE	15.40
44	1	APT. 1 BED	WINDOW SILL	B	DETERIORATED	WOOD	WHITE	14.30
45	1	APT. 1 BED	CLOSET DOOR	A	DETERIORATED	WOOD	TAN	1.60
46	1	APT. 1 BED	CLOSET CASING	A	DETERIORATED	WOOD	TAN	2.20
47	1	APT. 1 BED	FLOOR	NA	DETERIORATED	WOOD	TAN	0.03
48	1	APT. 1 LIVING ROOM	WALL	A	INTACT	WOOD PANELING	NATURAL	0.00
49	1	APT. 1 LIVING ROOM	WALL	B	INTACT	WOOD PANELING	NATURAL	0.00
50	1	APT. 1 LIVING ROOM	WALL	C	INTACT	WOOD PANELING	NATURAL	0.00
51	1	APT. 1 LIVING ROOM	WALL	D	INTACT	WOOD PANELING	NATURAL	0.00
52	1	APT. 1 LIVING ROOM	CEILING	NA	DETERIORATED	PLYWOOD	TAN	0.00
53	1	APT. 1 LIVING ROOM	BASEBOARD	A, B, C, D	DETERIORATED	WOOD	WHITE	10.00
54	1	APT. 1 LIVING ROOM	DOOR	C	DETERIORATED	WOOD	WHITE	0.29
55	1	APT. 1 LIVING ROOM	DOORCASING	C	DETERIORATED	WOOD	WHITE	10.60
56	1	APT. 1 LIVING ROOM	DOOR	A	DETERIORATED	WOOD	WHITE	9.80
57	1	APT. 1 LIVING ROOM	DOORCASING	A	DETERIORATED	WOOD	WHITE	10.30
58	1	APT. 1 LIVING ROOM	WINDOW SASH	A	DETERIORATED	WOOD	WHITE	9.70
59	1	APT. 1 LIVING ROOM	WINDOW CASING	A	DETERIORATED	WOOD	WHITE	10.10
60	1	APT. 1 LIVING ROOM	WINDOW SILL	A	DETERIORATED	WOOD	WHITE	11.00
61	1	APT. 1 LIVING ROOM	WINDOW SASH	B	DETERIORATED	WOOD	WHITE	7.00
62	1	APT. 1 LIVING ROOM	WINDOW CASING	B	DETERIORATED	WOOD	WHITE	9.00
63	1	APT. 1 LIVING ROOM	WINDOW SILL	B	DETERIORATED	WOOD	WHITE	9.70
64	1	APT. 1 LIVING ROOM	FLOOR	NA	DETERIORATED	WOOD	TAN	5.10
65	1	APT. 1 LIVING ROOM	FIREPLACE	B	DETERIORATED	WOOD	WHITE	5.10
66	1	APT. 2 LIVING ROOM	WALL	A	INTACT	WOOD PANELING	NATURAL	0.00
67	1	APT. 2 LIVING ROOM	WALL	B	INTACT	WOOD PANELING	NATURAL	0.00
68	1	APT. 2 LIVING ROOM	WALL	C	INTACT	WOOD PANELING	NATURAL	0.00
69	1	APT. 2 LIVING ROOM	WALL	D	INTACT	WOOD PANELING	NATURAL	0.00
70	1	APT. 2 LIVING ROOM	BASEBOARD	A, B, C, D	DETERIORATED	WOOD	NATURAL	8.60
71	1	APT. 2 LIVING ROOM	DOOR	B	DETERIORATED	WOOD	WHITE	4.00
72	1	APT. 2 LIVING ROOM	DOORCASING	B	DETERIORATED	WOOD	WHITE	5.50
73	1	APT. 2 LIVING ROOM	DOORCASING	C	DETERIORATED	WOOD	WHITE	3.90
74	1	APT. 2 LIVING ROOM	WINDOW SASH	A	DETERIORATED	WOOD	WHITE	6.30
75	1	APT. 2 LIVING ROOM	WINDOW CASING	A	DETERIORATED	WOOD	WHITE	4.90
76	1	APT. 2 LIVING ROOM	WINDOW SILL	A	DETERIORATED	WOOD	WHITE	4.60

77	1	APT. 2 LIVING ROOM	WINDOW SASH	B	DETERIORATED	WOOD	WHITE	2.90
78	1	APT. 2 LIVING ROOM	WINDOW CASING	B	DETERIORATED	WOOD	WHITE	3.60
79	1	APT. 2 LIVING ROOM	WINDOW SILL	B	DETERIORATED	WOOD	WHITE	7.40
80	1	APT. 2 LIVING ROOM	WINDOW SASH	D	DETERIORATED	WOOD	WHITE	3.60
81	1	APT. 2 LIVING ROOM	WINDOW CASING	D	DETERIORATED	WOOD	WHITE	6.70
82	1	APT. 2 LIVING ROOM	WINDOW SILL	D	DETERIORATED	WOOD	WHITE	3.90
83	1	APT. 2 LIVING ROOM	FIREPLACE	C	NA	CAST IRON	WHITE	0.11
84	1	APT. 2 BEDROOM	WALL	A	INTACT	WOOD PANELING	NATURAL	0.00
85	1	APT. 2 BEDROOM	WALL	B	INTACT	WOOD PANELING	NATURAL	0.00
86	1	APT. 2 BEDROOM	WALL	C	INTACT	WOOD PANELING	NATURAL	0.00
87	1	APT. 2 BEDROOM	WALL	D	INTACT	WOOD PANELING	NATURAL	0.00
88	1	APT. 2 BEDROOM	BASEBOARD	A, B, C, D	INTACT	WOOD	WHITE	8.60
89	1	APT. 2 BEDROOM	DOOR	B	DETERIORATED	WOOD	WHITE	0.08
90	1	APT. 2 BEDROOM	DOORCASING	B	DETERIORATED	WOOD	WHITE	0.17
91	1	APT. 2 BEDROOM	DOOR	B	DETERIORATED	WOOD	BEIGE	3.90
92	1	APT. 2 BEDROOM	DOORCASING	B	DETERIORATED	WOOD	BEIGE	0.04
93	1	APT. 2 BEDROOM	WINDOW SASH	NA	DETERIORATED	WOOD	BEIGE	3.00
94	1	APT. 2 BEDROOM	WINDOW CASING	NA	DETERIORATED	WOOD	BEIGE	0.20
95	1	APT. 2 BEDROOM	WINDOW SILL	NA	DETERIORATED	WOOD	BEIGE	2.20
96	1	APT. 2 BEDROOM	FIREPLACE	A	DETERIORATED	METAL	WHITE	0.23
97	1	APT. 2 BEDROOM	DOOR	C	DETERIORATED	WOOD	BEIGE	0.01
98	1	APT. 2 BEDROOM	DOOR CASING	C	DETERIORATED	WOOD	BEIGE	0.13
99	1	APT. 2 BATHROOM	WALL	A	DETERIORATED	PLASTER	GREEN	0.04
100	1	APT. 2 BATHROOM	WALL	B	DETERIORATED	PLASTER	GREEN	0.00
101	1	APT. 2 BATHROOM	WALL	C	DETERIORATED	PLASTER	GREEN	0.00
102	1	APT. 2 BATHROOM	WALL	D	DETERIORATED	PLASTER	GREEN	0.00
103	1	APT. 2 BATHROOM	BASEBOARD	A, B, C, D	DETERIORATED	WOOD	GREEN	0.00
104	1	APT. 2 BATHROOM	DOOR	B	DETERIORATED	WOOD	GREEN	7.60
105	1	APT. 2 BATHROOM	DOORCASING	B	DETERIORATED	WOOD	GREEN	13.10
106	1	APT. 2 BATHROOM	WINDOW SASH	D	DETERIORATED	WOOD	GREEN	10.30
107	1	APT. 2 BATHROOM	WINDOW CASING	D	DETERIORATED	WOOD	GREEN	14.40
108	1	APT. 2 BATHROOM	WINDOW SILL	D	DETERIORATED	WOOD	GREEN	12.40
109	1	APT. 2 KITCHEN	WALL	A	DETERIORATED	DRYWALL	WHITE	6.90
110	1	APT. 2 KITCHEN	WALL	B	DETERIORATED	DRYWALL	WHITE	7.30
111	1	APT. 2 KITCHEN	WALL	C	DETERIORATED	DRYWALL	WHITE	0.06
112	1	APT. 2 KITCHEN	WALL	D	DETERIORATED	DRYWALL	WHITE	1.60
113	1	APT. 2 KITCHEN	CEILING		DETERIORATED	DRYWALL	WHITE	0.03
114	1	APT. 2 KITCHEN	BASEBOARD	A, B, C, D	DETERIORATED	WOOD	WHITE	0.05
115	1	APT. 2 KITCHEN	DOOR CASING	A	DETERIORATED	WOOD	WHITE	0.01

116	1	APT. 2 KITCHEN	DOOR CASING	C	DETERIORATED	WOOD	WHITE	0.01
117	1	APT. 2 KITCHEN	WINDOW SASH	D	DETERIORATED	WOOD	WHITE	0.01
118	1	APT. 2 KITCHEN	WINDOW CASING	D	DETERIORATED	WOOD	WHITE	0.00
119	1	APT. 2 KITCHEN	WINDOW SILL	D	DETERIORATED	WOOD	WHITE	0.03
120	1	APT. 2 UTILITY	WALL	A	DETERIORATED	PLASTER	WHITE	0.18
121	1	APT. 2 UTILITY	WALL	B	DETERIORATED	PLASTER	WHITE	0.02
122	1	APT. 2 UTILITY	WALL	C	DETERIORATED	PLASTER	WHITE	0.15
123	1	APT. 2 UTILITY	WALL	D	DETERIORATED	PLASTER	WHITE	0.04
124	1	APT. 2 UTILITY	CEILING		DETERIORATED	PLASTER	WHITE	0.11
125	1	APT. 2 UTILITY	BASEBOARD	A, B, C, D	DETERIORATED	WOOD	WHITE	0.15
126	1	APT. 2 UTILITY	DOOR		DETERIORATED	WOOD	WHITE	0.14
127	1	APT. 2 UTILITY	DOOR CASING		DETERIORATED	WOOD	WHITE	0.02
128	1	APT. 2 UTILITY	WINDOW SASH		DETERIORATED	WOOD	WHITE	0.19
129	1	APT. 2 UTILITY	WINDOW CASING		DETERIORATED	WOOD	WHITE	0.01
130	1	APT. 2 UTILITY	WINDOW SILL		DETERIORATED	WOOD	WHITE	0.40
131	1	EXTERIOR	WALL	A	DETERIORATED	BRICK	GREY	0.06
132	1	EXTERIOR	DOOR	A	DETERIORATED	WOOD	WHITE	2.30
133	1	EXTERIOR	DOOR CASING	A	DETERIORATED	WOOD	WHITE	2.30
134	1	EXTERIOR	DOOR JAMB	A	DETERIORATED	WOOD	WHITE	7.60
135	1	EXTERIOR	WINDOW SASH	A	DETERIORATED	WOOD	WHITE	4.70
136	1	EXTERIOR	WINDOW CASING	A	DETERIORATED	WOOD	WHITE	3.80
137	1	EXTERIOR	WINDOW SILL	A	DETERIORATED	WOOD	WHITE	3.00
138	1	EXTERIOR	WINDOW TROUGH	A	DETERIORATED	WOOD	WHITE	3.60
139	1	EXTERIOR	PORCH CEILING	A	DETERIORATED	WOOD	WHITE	0.00
140	1	EXTERIOR	PORCH HEADER	A	DETERIORATED	WOOD	WHITE	16.30
141	1	EXTERIOR	PORCH SUPPORTS	A	DETERIORATED	WOOD	WHITE	12.00
142	1	EXTERIOR	BUILDING FASCIA	A	DETERIORATED	WOOD	WHITE	8.60
143	1	EXTERIOR	BUILDING SOFFIT	A	DETERIORATED	WOOD	WHITE	10.60
144	1	EXTERIOR	WALL	B	DETERIORATED	BRICK	GREY	0.10
145	1	EXTERIOR	DOOR	B	DETERIORATED	WOOD	WHITE	4.00
146	1	EXTERIOR	DOOR JAMB	B	DETERIORATED	WOOD	WHITE	7.00
147	1	EXTERIOR	DOOR THRESHOLD	B	DETERIORATED	WOOD	BLACK	6.70
148	1	EXTERIOR	WINDOW SASH	B	DETERIORATED	WOOD	WHITE	1.70
149	1	EXTERIOR	WINDOW CASING	B	DETERIORATED	WOOD	WHITE	2.20
150	1	EXTERIOR	WINDOW SILL	B	DETERIORATED	WOOD	WHITE	12.90
151	1	EXTERIOR	WINDOW TROUGH	B	DETERIORATED	WOOD	WHITE	12.90
152	1	EXTERIOR	WALL	C	DETERIORATED	WOOD	GREY	0.00
153	1	EXTERIOR	DOOR	C	DETERIORATED	WOOD	WHITE	0.10
154	1	EXTERIOR	DOOR CASING	C	DETERIORATED	WOOD	WHITE	1.50
155	1	EXTERIOR	WINDOW SILL	C	DETERIORATED	WOOD	WHITE	0.30
156	1	EXTERIOR	ORIGINAL BUILDING FASCIA	C	DETERIORATED	WOOD	WHITE	9.25
157	1	EXTERIOR	ORIGINAL BUILDING SOFFIT	C	DETERIORATED	WOOD	WHITE	5.60
158	1	EXTERIOR	WALL	D	DETERIORATED	BRICK	GREY	0.11
159	1	EXTERIOR	WINDOW SASH	D	DETERIORATED	WOOD	WHITE	2.30
160	1	EXTERIOR	WINDOW CASING	D	DETERIORATED	WOOD	WHITE	9.30
161	1	EXTERIOR	WINDOW SILL	D	DETERIORATED	WOOD	WHITE	0.03
162	1	EXTERIOR	WINDOW TROUGH	D	DETERIORATED	WOOD	WHITE	0.11
163	1	EXTERIOR	ORIGINAL BUILDING FASCIA	D	DETERIORATED	WOOD	WHITE	8.70

164	1	EXTERIOR	ORIGINAL BUILDING SOFFIT	D	DETERIORATED	WOOD	WHITE	10.60
165		CALIBRATION						1.00
166		CALIBRATION						1.00
167		CALIBRATION						1.00

APPENDIX D

Kentucky Dept. for Public Health, Certifications.





**CABINET FOR HEALTH AND FAMILY SERVICES
Department for Public Health**

Andy Beshear
Governor

Division of Public Health Protection and Safety
275 East Main Street HS1EB
Frankfort, Kentucky 40621
Phone (502) 564-4537
Fax (502) 564-0885
Website: <http://chfs.kv.gov/dph>

Eric Friedlander
Secretary

Steven J. Stack, MD
Commissioner

4/4/2022

Nicholas Leow 41-148
Micro-Analytics, Inc.
3310-C Gilmore Industrial Blvd.
Louisville, KY 40213

To Whom It May Concern

Enclosed is your identification card. It is being issued pursuant to 902 KAR 48:040. This card is subject to revocation, and/or suspension, and is non-transferable and will become invalid if loaned or given to another person for identification while performing lead-hazard detection and/or abatement activities for the Commonwealth of Kentucky.


This identification card must be carried at all times while performing lead-hazard activities in the State of Kentucky. If there are any corrections needed please call (502) 564-4537.

Note: In revised certification regulation 902 KAR 48:020, if you fail to pass a refresher course and submit your application for recertification at least 30 days prior to the expiration date on your identification card and certificate, you must reapply for certification and retake the third party examination. An applicant who fails to reapply for certification after six (6) months from the date the certification has lapsed shall pass an initial course and reapply through the initial certification process. This will also modify your certification date.



Sincerely,


Jennifer Billingslea

Kentucky Environmental Lead Program
275 East Main Street
Frankfort, KY 40621



Nicholas Leow
Risk Assessor
D.O.B.: 8/21/1978
41-148
8/21/1978
EXP: June 18, 2024


An Equal Opportunity Employer M/F/D

APPENDIX E

Laboratory Analysis, Chain of Custody and Laboratory Accreditations



Environmental Hazards Services, L.L.C.
 7469 Whitepine Rd
 Richmond, VA 23237
 Telephone: 800.347.4010

Lead in Soil Analysis Report

Report Number: 23-02-04845

Client: Micro-Analytcs Inc.
 3310-C Gilmore Industrial Blv
 Louisville, KY 40213

Received Date: 02/28/2023
 Analyzed Date: 03/03/2023
 Reported Date: 03/06/2023

Project/Test Address: 533 E 2nd Street; Bowling Green, KY
 Collection Date: 02/24/2023

Client Number:
 18-2532

Laboratory Results

Fax Number:
 502-964-1123

Lab Sample Number	Client Sample Number	Collection Location	Concentration ppm (ug/g)	Narrative ID
23-02-04845-009	09	DRIPLINE SIDE A	920	
23-02-04845-010	10	DRIPLINE SIDE B	410	
23-02-04845-011	11	DRIPLINE SIDE C	480	
23-02-04845-012	12	DRIPLINE SIDE D	230	

Environmental Hazards Services, L.L.C

Client Number: 18-2532

Report Number: 23-02-04845

Project/Test Address: 533 E 2nd Street; Bowling Green, KY

Lab Sample Number	Client Sample Number	Collection Location	Concentration ppm (ug/g)	Narrative ID
-------------------	----------------------	---------------------	--------------------------	--------------

Method: ASTM E-1979-17/EPA SW846 7000B

Reviewed By Authorized Signatory:



Amanda Lowery

The Reporting Limit (RL) is 10.0 ug Total Pb. All internal quality control requirements associated with this batch were met, unless otherwise noted.

The condition of the samples analyzed was acceptable upon receipt per laboratory protocol unless otherwise noted on this report. Results represent the analysis of samples submitted by the client. Unless otherwise noted, samples are reported without a dry weight correction. Sample location, description, area, volume, etc., was provided by the client. If the report does not contain the result for a field blank, it is due to the fact that the client did not include a field blank with their samples. EHS sample results do not reflect blank correction. This report shall not be reproduced except in full, without the written consent of Environmental Hazards Services, L.L.C.

ELLAP Accreditation through AIHA LAP, LLC (100420), NY ELAP #11714.

LEGEND ug = microgram ppm = parts per million
 ug/g = micrograms per gram



Environmental Hazards Services, L.L.C.
 7469 Whitepine Rd
 Richmond, VA 23237
 Telephone: 800.347.4010

Lead Dust Wipe Analysis Report

Report Number: 23-02-04845

Client: Micro-Analytics Inc.
 3310-C Gilmore Industrial Blv
 Louisville, KY 40213

Received Date: 02/28/2023
 Analyzed Date: 03/03/2023
 Reported Date: 03/06/2023

Project/Test Address: 533 E 2nd Street; Bowling Green, KY
 Collection Date: 02/24/2023

Client Number:
 18-2532

Laboratory Results

Fax Number:
 502-964-1123

Lab Sample Number	Client Sample Number	Collection Location	Surface	Total Pb (ug)	Wipe Area (ft ²)	Concentration (ug/ft ²)	Narrative ID
23-02-04845-001	01	APT 1 KIT	FL	81.5	1.00	81.5	
23-02-04845-002	02	APT 1 KIT	SL	25.5	0.312	81.6	
23-02-04845-003	03	APT 1 BED	FL	15.5	1.00	15.5	
23-02-04845-004	04	APT 1 BED	SL	146	0.312	469	
23-02-04845-005	05	APT 2 KIT	FL	144	1.00	144	
23-02-04845-006	06	APT 2 KIT	SL	109	0.312	350	
23-02-04845-007	07	APT 2 BED	FL	113	1.00	113	
23-02-04845-008	08	APT 2 BED	SL	397	0.312	1270	

Environmental Hazards Services, L.L.C

Client Number: 18-2532

Report Number: 23-02-04845

Project/Test Address: 533 E 2nd Street; Bowling Green, KY

Lab Sample Number	Client Sample Number	Collection Location	Surface	Total Pb (ug)	Wipe Area (ft ²)	Concentration (ug/ft ²)	Narrative ID
-------------------	----------------------	---------------------	---------	---------------	------------------------------	-------------------------------------	--------------

Method: ASTM E-1979-17/EPA SW846 7000B

Accreditation #:

Reviewed By Authorized Signatory:



Amanda Lowery

The condition of the samples analyzed was acceptable upon receipt per laboratory protocol unless otherwise noted on this report. Results represent the analysis of samples submitted by the client. Sample location, description, area, etc., was provided by the client. Results reported above in ug/ft² are calculated based on area supplied by the client. If the report does not contain the result for a field blank, it is due to the fact that the client did not include a field blank with their samples. These sample results do not reflect blank correction. This report shall not be reproduced except in full, without the written consent of Environmental Hazards Services, L.L.C.

ELLAP Accreditation through AIHA LAP, LLC (100420), NY ELAP #11714.

Legend	ug = microgram	ug/ft ² = micrograms per square foot	Pb = lead
	mL = milliliter	ft ² = square foot	

ENVIRONMENTAL HAZARDS SERVICES, LLC

Lead Chain of Custody Form

Page ____ of ____


Company Name: Micro Analytics	Account #: 18-2532-S
Company Address: 3310-C Gilmore Industrial Blvd	City/State/Zip: Louisville, KY 40213
Phone: 502-964-8737	Email: _____
Project Name / Testing Address: 533 E. 2nd Street, Bowling Green, KY	
PO Number: 72250	Collected By: Harris Hagerthey
Turn-Around Time: <input checked="" type="radio"/> 5 Day <input type="radio"/> 3 Day <input type="radio"/> 2 Day <input type="radio"/> 1 Day <input type="radio"/> Same Day / Weekend - Must Call Ahead	
Do Submitted Dust Wipe Samples Meet ASTM E1792 Requirements? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No NEW YORK CITY Pb DUST WIPE PROJECTS: Please take floor dust wipe samples using a 2 ft² wipe area.	

SAMPLE TYPES				SAMPLE LOCATION ABBREVIATIONS								SURFACE TYPE FOR DUST WIPES					
Dust Wipe	DW	Air	A	Family Room	FR	Front	F	1st FL	1	Bath	BA	Bedroom	BR	Floor	FL	Window Well	WW
Paint Chip	PC	Soil	S	Living Room	LR	Rear	R	2nd FL	2	Dining	DR	Basement	O	Carpet	CP	Window Sill	SL
Composite Soil	CS	Composite Wipe	CW	Den	DN	Left	LT	Right	RT	Kitchen	KT						

LAB NUMBER	Client Sample ID	Collection Date	Sample Type	Collection Location [LR, KT, BA,]	Surface Type	Area		Paint Chip		Air		
						Length X Width (In Inches) [Provide paint chip area only if results are needed in mg/cm ²]		mg/cm ²	% by weight	Total Time [minutes]	Flow Rate [L/min]	Total Volume [Liters]
1	01	2-24-23	D	Apt. 1 KIT	F	12 x 12						
2	02		D	Apt. 1 KIT	S	3 x 15						
3	03		D	Apt. 1 Bed	F	12 x 12						
4	04		D	Apt. 1 Bed	S	3 x 15						
5	05		D	Apt. 2 KIT	F	12 x 12						
6	06		D	Apt. 2 KIT	S	3 x 15						
7	07		D	Apt. 2 Bed	F	12 x 12						
8	08		D	Apt. 2 Bed	S	3 x 15						
9	09		S	Dripline side A		X						
10	10		S	Dripline side B		X						
11	11		S	Dripline side C		X						
12	12		S	Dripline side D		X						
13						X						
14						X						

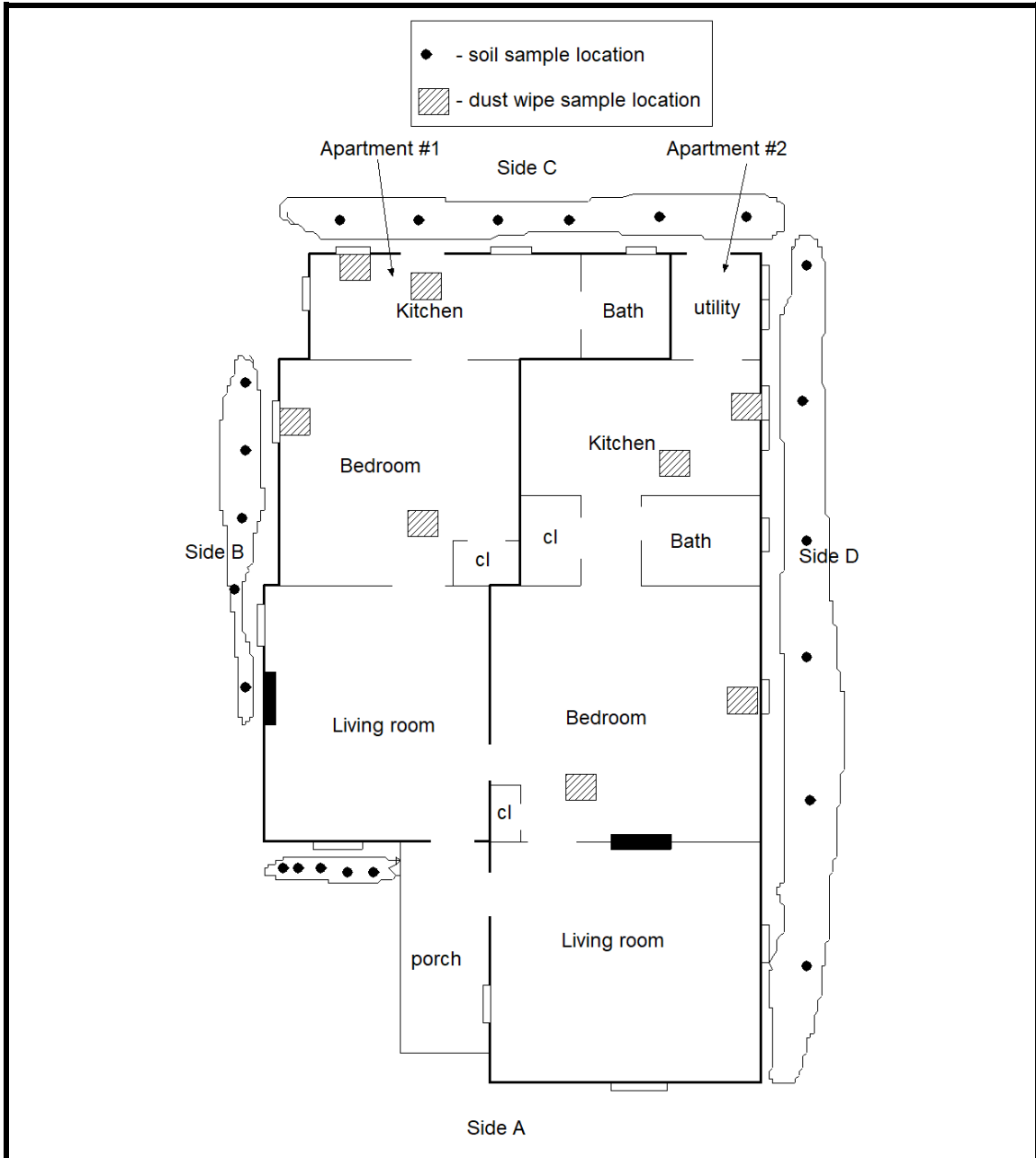
Released By: L. H. Hagerthey	Date: 2-27-23	Time: _____
Signature: <i>[Signature]</i>		

LAB USE ONLY - BELOW THIS LINE

Received By: Amy Ugnai	23-02-04845
Signature: <i>[Signature]</i>	 Due Date: 03/07/2023 (Tuesday) AE
Date: 2/28/23 Time: 4:04 <input type="checkbox"/> AM <input type="checkbox"/> PM	
<input type="checkbox"/> Portal Contact Added	
7469 WHITEPINE RD, RICHMOND, VA 23237 (800)-347-4010 RESULTS VIA CLIENT PORTAL AVAILABLE @ www.leadlab.com	

APPENDIX F

Floor Plan Drawings



Micro-Analytics, Inc. 3310-C Gilmore Industrial Blvd. Louisville, KY 40213 (502)964-8737	533 East 2nd Avenue, Bowling Green, Kentucky		
	Project #	Drawn by	Scale
	72250	Harris Hagerthey	NTS
		Date	February 24, 2023

Asbestos NESHAP Inspection Reports



3310-C Gilmore Industrial Boulevard
Louisville, Kentucky 40213

Phone: (502) 964-8737
Facsimile: (502) 964-1123

Asbestos NESHAP Inspection Report

Project Number: 72249 **Report Date:** February 17, 2023

Address: 136 State Street **City:** Bowling Green **State:** KY

Client: City of Bowling Green

Property Description: Institutional Commercial Public Industrial Residential

Inspection Date: February 13, 2023 **Inspector:** Harris Hagerthey

Accreditation No.: 70583

Type of Inspection: Complete Facility Selective, specific areas
 Invasive/Destructive Non-invasive, non-destructive

Micro-Analytics, Inc. was retained by City of Bowling Green to conduct a thorough asbestos inspection at a single family dwelling located at 136 State Street, Bowling Green, KY. According to information provided by City of Bowling Green, this building is scheduled to be renovated.

The asbestos inspection was performed in accordance with the EPA recommended protocol for a facility asbestos inspection. The inspection conforms to requirements defined in the following federal regulations, as well as any applicable state and/or local requirements:

- 40 CFR Part 763, Subpart E: Asbestos-Containing Materials in Schools
- The Asbestos School Hazard Abatement Reauthorization Act of 1990
- 29 CFR 1910.1001 OSHA General Industry Standards for Asbestos
- 40 CFR Part 61, Subpart M: National Emission Standard for Asbestos

The inspection was performed by Mr. Harris Hagerthey, a Kentucky accredited asbestos inspector on February 13, 2023.

During the site inspection, suspect asbestos-containing materials were grouped into homogeneous areas (HAs), with any given homogeneous area being a material exhibiting the same color, texture, and physical appearance. Each suspect homogeneous area was then sampled in accordance with EPA protocol, and each sample collected was given a unique identification number.

Collected samples were analyzed by an AIHA accredited laboratory using Polarized Light Microscopy (PLM) and the dispersion staining technique, the EPA-approved method for the analysis of bulk materials for the presence of asbestos.

This report summarizes the findings of the inspection. The report includes:

- An *Asbestos Materials Summary Form*, detailing the asbestos-containing materials discovered during the inspection.
- A *Homogeneous Areas Summary Form*, detailing all HAs identified during the inspection, both asbestos-containing materials and non-asbestos materials.
- A *Facility Drawing*, detailing locations where asbestos-containing materials are present in the surveyed areas.
- A *Bulk Analysis Report*, detailing the analytical results of the laboratory for the PLM analysis.
- A *Bulk Analysis Report*, detailing the analytical results of the laboratory for any PLM Point-Count analyses performed (if applicable).

Asbestos-containing materials (ACM) WERE identified within the area inspected. If asbestos-containing materials are present, their types and quantities are listed on the “*Asbestos Materials Summary Form*” that is part of this report.

Be advised that any identified asbestos-containing materials that would be impacted by any renovation or demolition at this property must be handled in strict accordance with the various federal, state, and local regulations.

The information contained within this report was prepared for the exclusive use and reliance of City of Bowling Green, their agents, and Micro-Analytics personnel. This information is based on the specific parameters of the scope of work for this project and the regulations in force at the time of this report. Micro-Analytics accepts no responsibility for the use, interpretation, or reliance by other parties on the information contained herein without the written authorization of Micro-Analytics.

LIMITATIONS

Destructive sampling techniques were utilized for this project; however some areas of the building may have been inaccessible due to safety concerns, access constraints or to avoid damaging any structural or load-bearing members. It is possible for hazardous materials (i.e. asbestos) to be contained in these inaccessible portions of the building. Care should be taken during demolition activities if unaccounted for hazardous materials are discovered. In the event of such a discovery, demolition activities that may disturb the newly discovered material should be halted until the material can be investigated by a certified asbestos inspector.

This report was prepared and reviewed by Mr. Harris Hagerthey.

L. Harris Hagerthey

Asbestos-Containing Materials (ACM) Summary

Asbestos NESHAP Inspection – Summary of Asbestos-Containing Materials

Facility: Single family residence

Date of Inspection: February 17, 2023

Location: 136 State Street, Bowling Green, KY

Inspector: Harris Hagerthey

HA No.	Description	Locations of Material	Material Type	Material Quantity	ACM Category	Asbestos Content
05	Transite siding	Exterior of original structure	Misc.	1060 sq. ft.	Non-friable	10-12% chrysotile

Homogeneous Areas Summary

Asbestos NESHAP Inspection – Summary of Homogeneous Areas

Facility: Single family residence

Date of Inspection: February 17, 2022

Location: 136 State Street, Bowling Green, KY

Inspector: Harris Hagerthey

HA No.	Description	Locations of Material	Material Type	Material Quantity	Sample Numbers	Asbestos Content
01	Linoleum, brown	Bedroom 1	Misc.	NA	1.1-1.2	NAD
02	Plaster	Throughout	Surfacing	NA	2.1-2.3	NAD
03	Linoleum, multi	Living room	Misc.	NA	3.1-3.2	NAD
04	Linoleum, brown	Bedroom 2	Misc.	NA	4.1-4.2	NAD
05	Transite siding	Exterior siding, original structure	Misc.	1060 sq. ft.	5.1-5.2	10-12% chrysotile
06	Linoleum, red & brown	Kitchen	Misc.	NA	6.1-6.2	NAD
07	Linoleum, yellow	Hallway	Misc.	NA	7.1-7.2	NAD
08	Linoleum, orange	Bathroom	Misc.	NA	8.1-8.2	NAD
09	Ceiling texture	Throughout	Misc.	NA	9.1-9.2	NAD
10	Window glazing	Exterior	Misc.	NA	10.1-10.2	NAD
11	Window glazing	Exterior	Misc.	NA	11.1-11.2	NAD

Inspection Drawings

8.1 - sample locations
— ACM siding

Bedroom 3
cl

9.3
Bath
8.1 8.2 7.2

utility

Kitchen

4.1

Bedroom 2 2.3
4.2

Hall

Living room
3.2
2.2
3.1

1.1 1.2
2.1
Bedroom 1

5.1 10.1
11.1
porch

10.2
11.2

7.1

9.2

6.2

5.2

9.1

6.1

2.2

5.1

10.1

11.1

Bulk Sample Log & Analytical Report



3310-C Gilmore Industrial Boulevard
Louisville, Kentucky 40213

Phone: (502) 964-8737
www.micro-analytics.com

Project Number: 72249 Date Sampled: 2/14/2023
 Client: City of Bowling Green Date Received: 2/14/2023
 Facility: 136 State Street Analysis Date: 2/14/2023
 Sample Type: Bulk Material Report Date: 2/15/2023
 Sampled By: T. Lyday Analyst: J. Holley

Analytical Method: Polarized Light Microscopy with Dispersion Staining as Defined in 40 CFR, Part 763, Subpart F, Appendix A; EPA 600/M4-82-020

Sampling Method: "Asbestos-Containing Materials in Schools Rule" as Defined in 40 CFR Part 763, Subpart E


Bulk Asbestos Report

<i>Laboratory Sample ID</i>	<i>Sample Description</i>	<i>Type and Percent Asbestos</i>
1.1	Linoleum, brown pattern	NAD
1.2	Linoleum, brown pattern	NAD
2.1	Plaster, white/grey	NAD
2.2	Plaster, white/grey	NAD
2.3	Plaster, white/grey	NAD
3.1	Linoleum, green	NAD
	Linoleum, multi-color	NAD
3.2	Linoleum, green	NAD
	Linoleum, multi-color	NAD
4.1	Linoleum, brown	NAD
4.2	Linoleum, brown	NAD
5.1	Transite siding, grey	10-12% CHRY
5.2	Transite siding, grey	10-12% CHRY
6.1	Linoleum, red	NAD
	Linoleum, brown	NAD
6.2	Linoleum, red	NAD
	Linoleum, brown	NAD

Reporting Limit 1% Asbestos NAD: No Asbestos Detected

The information provided in this report relate only to the items tested and received.

Reviewed and Released by Authorized Signatory


Nick Leow, Technical Manager

Micro-Analytics Inc. is an accredited laboratory through the American Industrial Hygiene Association (AIHA) Industrial Hygiene Laboratory Accreditation Program (IHLAP) and has demonstrated analytical proficiency through the Bulk Asbestos Proficiency Analytical Testing (PAT) Program.

AIHA LAP LLC #102266





3310-C Gilmore Industrial Boulevard
Louisville, Kentucky 40213

Phone: (502) 964-8737
www.micro-analytics.com

Project Number: 72249 **Date Sampled:** 2/14/2023
Client: City of Bowling Green **Date Received:** 2/14/2023
Facility: 136 State Street **Analysis Date:** 2/14/2023
Sample Type: Bulk Material **Report Date:** 2/15/2023
Sampled By: T. Lyday **Analyst:** J. Holley

Analytical Method: Polarized Light Microscopy with Dispersion Staining as Defined in 40 CFR, Part 763, Subpart F, Appendix A; EPA 600/M4-82-020

Sampling Method: "Asbestos-Containing Materials in Schools Rule" as Defined in 40 CFR Part 763, Subpart E

Bulk Asbestos Report

<i>Laboratory Sample ID</i>	<i>Sample Description</i>	<i>Type and Percent Asbestos</i>
7.1	Linoleum, yellow	NAD
7.2	Linoleum, yellow	NAD
8.1	Linoleum, orange	NAD
8.2	Linoleum, orange	NAD
9.1	Ceiling texture, white	NAD
9.2	Ceiling texture, white	NAD
9.3	Ceiling texture, white	NAD
10.1	Window glazing, white	NAD
10.2	Window glazing, white	NAD
11.1	Window glazing, white	NAD
11.2	Window glazing, white	NAD

Reporting Limit 1% Asbestos NAD: No Asbestos Detected

The information provided in this report relate only to the items tested and received.

Reviewed and Released by Authorized Signatory


 Nick Leow, Technical Manager

Micro-Analytics Inc. is an accredited laboratory through the American Industrial Hygiene Association (AIHA) Industrial Hygiene Laboratory Accreditation Program (IHLAP) and has demonstrated analytical proficiency through the Bulk Asbestos Proficiency Analytical Testing (PAT) Program.

AIHA LAP LLC #102266



Inspector(s) Credentials

ANDY BESHEAR
GOVERNOR



REBECCA W. GOODMAN
SECRETARY

ENERGY AND ENVIRONMENT CABINET
DEPARTMENT FOR ENVIRONMENTAL PROTECTION

ANTHONY R. HATTON
COMMISSIONER

300 SOWER BOULEVARD
FRANKFORT, KENTUCKY 40601

November 23, 2022

Lee Harris Hagerthey
3310-C Gilmore Industrial Blvd
Louisville, Kentucky 40213

Asbestos Inspector
AI Number: 146420
License Number: 70583
Expires: November 16, 2023

Dear Lee Harris Hagerthey:

This is to acknowledge receipt of your application for accreditation as an asbestos abatement professional. Your application has been approved and the above-referenced card is enclosed.

Initial accreditation fee is \$100.00 per person per discipline, except for abatement worker (\$20.00). Renewal fees for accreditations within one year of the expiration date are one-half of the initial fees. Renewals for accreditations expired over one year require the initial fee. There is a \$10.00 duplication charge to replace a lost card. Please also note that the expiration date on your license is determined by the expiration date on the training certificate submitted with your application.

When submitting application packets, please note the following:

- do not staple any of the application materials;
- make sure to fill out the application completely, including your signature; and
- include current proof of training for the discipline(s) for which you are applying

If you have any questions regarding this matter, please call our office at (502) 782-6717.

Sincerely,

Emma Moreo
Field Support Section
Field Operations Branch

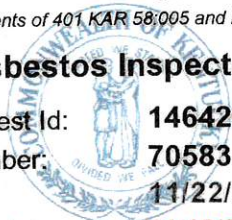
Commonwealth of Kentucky
Department for Environmental Protection
Division for Air Quality

Lee Harris Hagerthey

meets the requirements of 401 KAR 58:005 and is accredited as an:

Asbestos Inspector

Agency Interest Id: **146420**
License Number: **70583**
Issue Date: **11/22/2022**
Expiration Date: **11/16/2023**



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3310-C Gilmore Industrial Boulevard
Louisville, Kentucky 40213

Phone: (502) 964-8737
www.micro-analytics.com

Limited Asbestos NESHAP Inspection Report

Project Number: 72248 **Report Date:** March 6, 2023

Address: 140 State Street **City:** Bowling Green **State:** KY

Client: City of Bowling Green

Property Description: Institutional Commercial Public Industrial Residential

Inspection Date: February 13, 2023 **Inspector:** Timothy Lyday, Harris Hagerthey

Accreditation No.: KY 73288, KY 70583

Type of Inspection: Complete Facility Selective, specific areas
 Invasive/Destructive Non-invasive, non-destructive

Micro-Analytics, Inc. was retained by City of Bowling Green to conduct a limited asbestos inspection at 140 State Street.

Note: The basement and attic were not fully inspected do to not having full access to these areas.

The asbestos inspection was performed in accordance with the EPA recommended protocol for a facility asbestos inspection. The inspection conforms to requirements defined in the following federal regulations, as well as any applicable state and/or local requirements:

- 40 CFR Part 763, Subpart E: Asbestos-Containing Materials in Schools
- The Asbestos School Hazard Abatement Reauthorization Act of 1990
- 29 CFR 1910.1001 OSHA General Industry Standards for Asbestos
- 40 CFR Part 61, Subpart M: National Emission Standard for Asbestos

The inspection was performed by Mr. Timothy Lyday and Harris Hagerthey, Kentucky accredited asbestos inspectors on February 13, 2023. During the site inspection, suspect asbestos-containing materials were grouped into homogeneous areas (HAs), with any given homogeneous area being a material exhibiting the same color, texture, and physical appearance. Each suspect homogeneous area was then sampled in accordance with EPA protocol, and each sample collected was given a unique identification number.

Collected samples were analyzed by an AIHA accredited laboratory using Polarized Light Microscopy (PLM) and the dispersion staining technique, the EPA-approved method for the analysis of bulk materials for the presence of asbestos.

This report summarizes the findings of the inspection. The report includes:

- An *Asbestos Materials Summary Form*, detailing the asbestos-containing materials discovered during the inspection.
- A *Homogeneous Areas Summary Form*, detailing all HAs identified during the inspection, both asbestos-containing materials and non-asbestos materials.
- A *Facility Drawing*, detailing locations where asbestos-containing materials are present in the surveyed areas.
- A *Bulk Analysis Report*, detailing the analytical results of the laboratory for the PLM analysis.
- A selection of *Photographs* to assist in interpreting the report.

Asbestos-containing materials (ACM) WERE identified within the area inspected. If asbestos-containing materials are present, their types and quantities are listed on the “*Asbestos Materials Summary Form*” that is part of this report.

Be advised that any identified asbestos-containing materials that would be impacted by any renovation or demolition at this property must be handled in strict accordance with the various federal, state, and local regulations.

The information contained within this report was prepared for the exclusive use and reliance of City of Bowling Green, their agents, and Micro-Analytics personnel. This information is based on the specific parameters of the scope of work for this project and the regulations in force at the time of this report. Micro-Analytics accepts no responsibility for the use, interpretation, or reliance by other parties on the information contained herein without the written authorization of Micro-Analytics.

LIMITATIONS

Non-destructive sampling techniques were utilized for this project; however some areas of the building may have been inaccessible due to safety concerns, access constraints or to avoid damaging any structural or load-bearing members. It is possible for hazardous materials (i.e. asbestos) to be contained in these inaccessible portions of the building. Care should be taken during demolition activities if unaccounted for hazardous materials are discovered. In the event of such a discovery, demolition activities that may disturb the newly discovered material should be halted until the material can be investigated by a certified asbestos inspector.

This report was prepared and reviewed by Mr. Timothy Lyday.



Asbestos-Containing Materials (ACM) Summary

Asbestos NESHAP Inspection – Summary of Asbestos-Containing Materials

Facility: 140 State Street

Date of Inspection: 2/13/23

Location: Throughout

Inspector: Timothy Lyday, Harris Hagerthey

HA No.	Description	Locations of Material	Material Type	Material Quantity	ACM Category	Asbestos Content
11	Duct Tape	Throughout Basement HVAC System	Misc.	TBD	Friable	12-15% Chrysotile
13	Pipe Insulation Debris	Basement Exterior Door	TSI	TBD	Friable	10-12% Chrysotile
14	Linoleum - Green	2 nd Floor Front Bathroom	Misc.	60 SF	Non-Friable	10-12 % Chrysotile
15	Linoleum – Tan/Pattern	2 nd Floor Back Bathroom	Misc.	35 SF	Non-Friable	7-10% Chrysotile
17	Transite Debris	Dining Room Pile of Debris	Misc.	TBD	Non-Friable	12-15% Chrysotile
19	Boiler Insulation	Basement	TSI	TBD	Friable	*Assumed

Homogeneous Areas Summary

Asbestos NESHAP Inspection – Summary of Homogeneous Areas

Facility: 140 State Street

Date of Inspection: 2/13/23

Location: Throughout

Inspector: Timothy Lyday, Harris Hagerthey

HA No.	Description	Locations of Material	Material Type	Material Quantity	Sample Numbers	Asbestos Content
01	Wallpaper	Throughout	Misc.	NA	1.1-1.2	NAD
02	Lay-In Ceiling Tile	Back Hallway	Misc.	NA	2.1-2.2	NAD
03	Ceiling Texture	Living Room, Bedroom 2, Bedroom 4, 2 nd Floor Back Bathroom	Surfacing	NA	3.1-3.3	NAD
04	Plaster	Throughout	Surfacing	NA	4.1-4.3	NAD
05	Linoleum – Dark Brown	Back Door Entrance (Top Layer) & Kitchen	Misc.	NA	5.1-5.2	NAD
06	Linoleum – Light Brown Pattern	Back Door Entrance (Bottom Layer)	Misc.	NA	6.1-6.2	NAD
07	Drywall	Throughout	Misc.	NA	7.1-7.2	NAD
08	Plaster (New)	1 st Floor Bathroom	Surfacing	NA	8.1-8.3	NAD
09	Linoleum – Wood Grain (Top Layer)	Front Room Bathroom	Misc.	NA	9.1-9.2	NAD
	Linoleum – Tan (Bottom Layer)	Front Room Bathroom	Misc.	NA	9.1-9.2	NAD
10	Fireplace Insulation	Front Room	TSI	NA	10.1-10.3	NAD
11	Duct Tape	Throughout Basement HVAC System	Misc.	TBD	11.1-11.2	12-15% Chrysotile
12	Block of Powder	Basement	Misc.	NA	12.1-12.2	NAD
13	Pipe Insulation Debris	Basement Exterior Door	TSI	NA	13.1-13.3	10-12% Chrysotile

Asbestos NESHAP Inspection – Summary of Homogeneous Areas

Facility: 140 State Street

Date of Inspection: 2/13/23


Location: Throughout

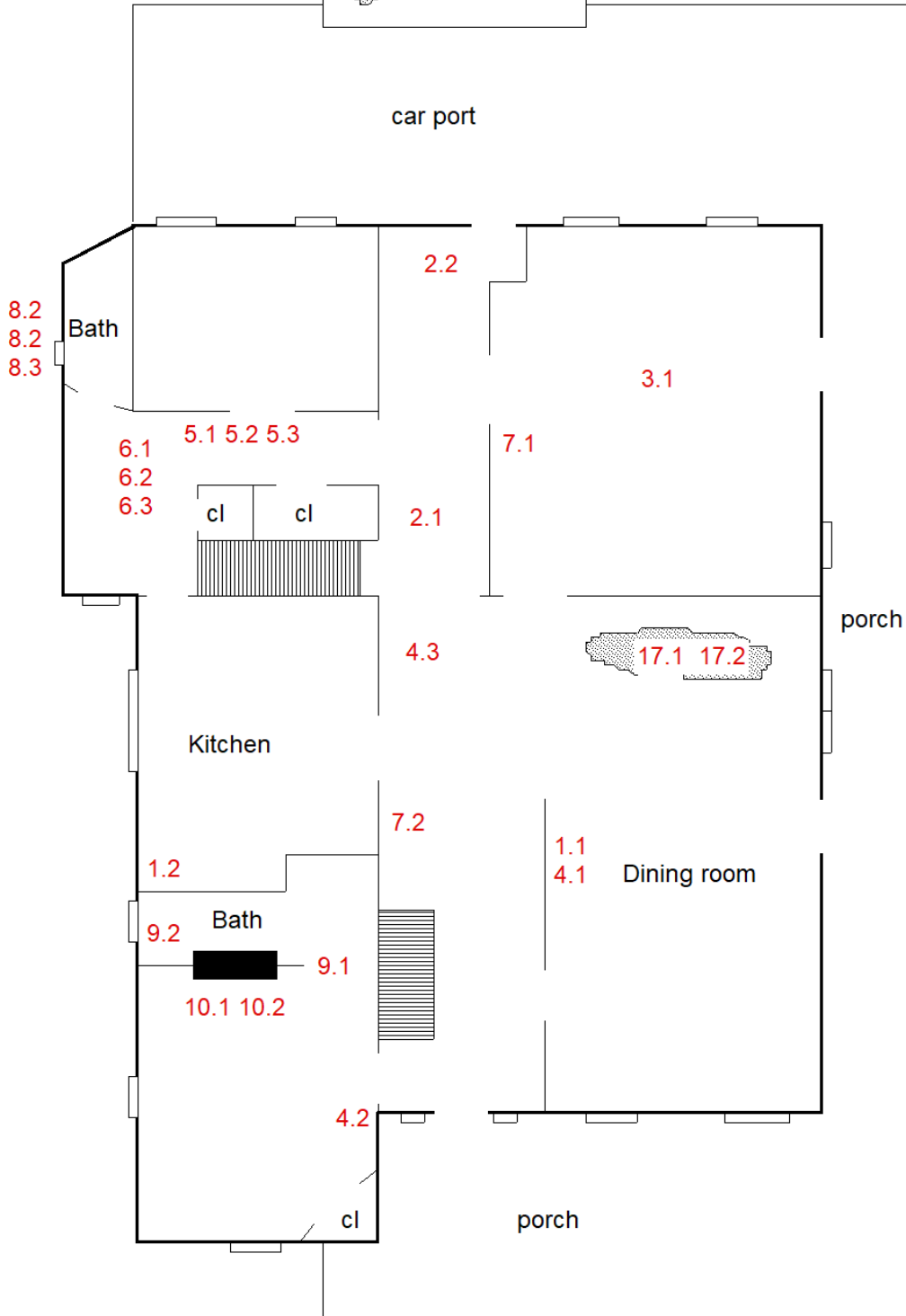
Inspector: Timothy Lyday, Harris Hagerthey

HA No.	Description	Locations of Material	Material Type	Material Quantity	Sample Numbers	Asbestos Content
14	Linoleum – Tan	2 nd Floor Front Bathroom	Misc.	NA	14.1-14.2	NAD
	Linoleum – Green	2 nd Floor Front Bathroom	Misc.	60 SF	14.1-14.2	10-12% Chrysotile
15	Linoleum – Tan/Pattern	2 nd Floor Back Bathroom	Misc.	35 SF	15.1-15.2	7-10% Chrysotile
16	Roof Shingle & Felt Paper	Exterior: Roof	Misc.	NA	16.1-16.2	NAD
17	Transite Debris	Dining Room Pile of Debris	Misc.	TBD	17.1-17.2	12-15% Chrysotile
18	Window Glazing	Exterior: Windows	Misc.	NA	18.1-18.2	NAD
19	Boiler Insulation	Basement	TSI	TBD	Not Sampled	*Assumed

Inspection Drawings

7.1 - sample location

 - transite debris





First floor

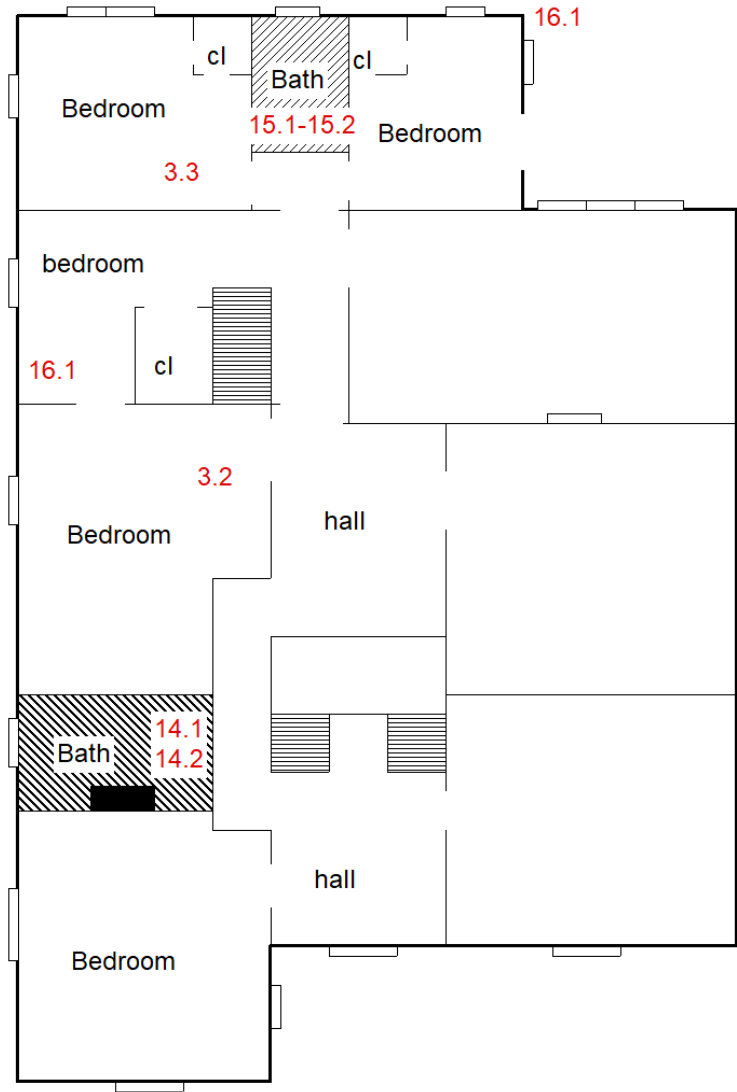
Micro-Analytics, Inc.
3310-C Gilmore Industrial Blvd.
Louisville, KY 40213
(502)964-8737

140 State Street, Bowling Green, KY

Project #	Drawn by	Scale	Date
72248	Tim Lyday	NTS	3/6/2023

7.1 - sample location

-  - ACM linoleum (HA-14)
-  - ACM linoleum (HA-15)
- 3.2 - sample location





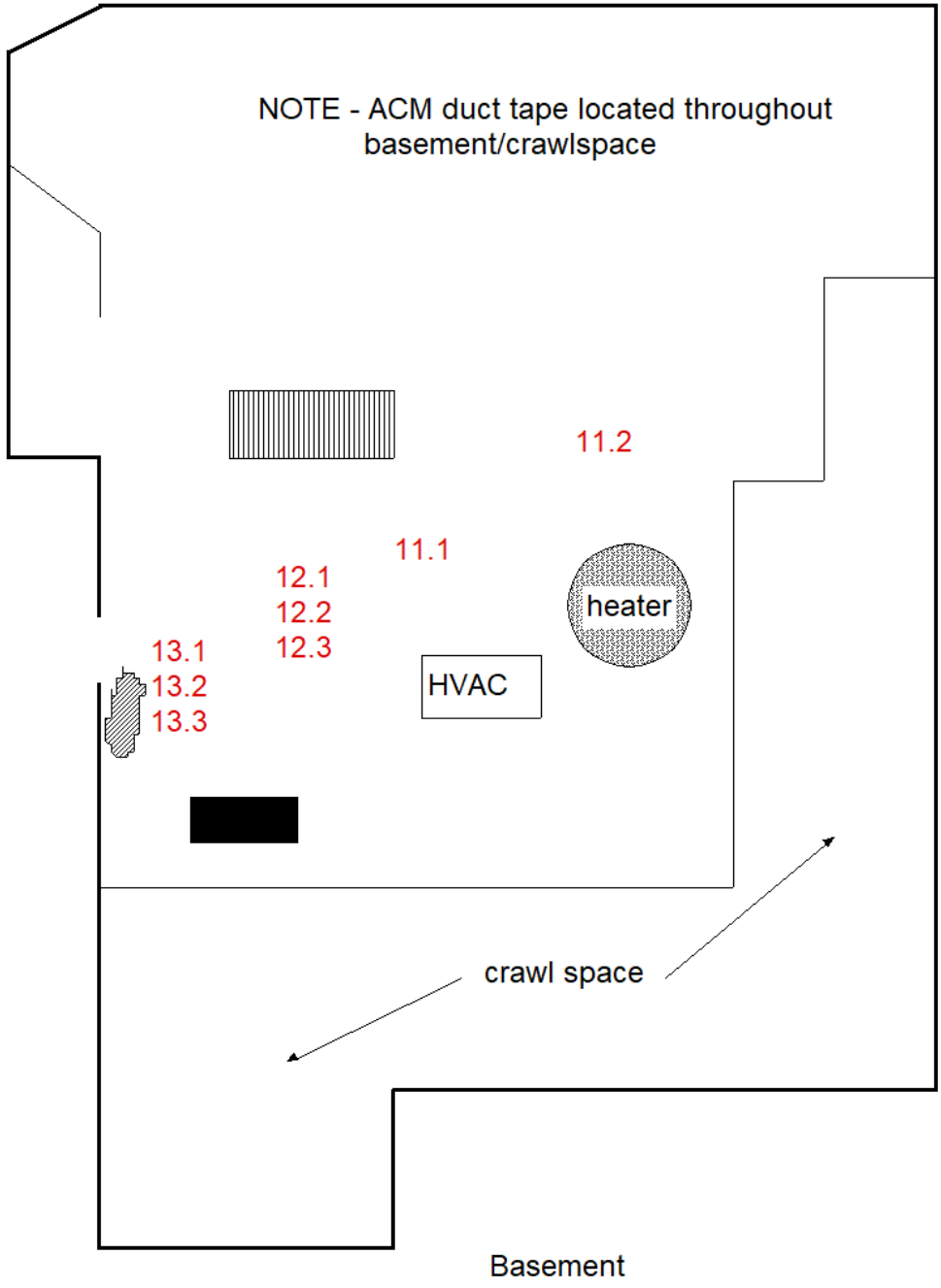
Second floor

Micro-Analytics, Inc.
3310-C Gilmore Industrial Blvd.
Louisville, KY 40213
(502)964-8737

140 State Street, Bowling Green, KY

Project #	Drawn by	Scale	Date
72248	Tim Lyday	NTS	3/6/2023

-  - suspected ACM boiler insulation
-  - ACM pipe insulation
- 11.1 - sample location



Micro-Analytics, Inc. 3310-C Gilmore Industrial Blvd. Louisville, KY 40213 (502)964-8737	140 State Street, Bowling Green, KY			
	Project #	Drawn by	Scale	Date
	72248	Tim Lyday	NTS	3/6/2023

Bulk Sample Log & Analytical Report



3310-C Gilmore Industrial Boulevard
Louisville, Kentucky 40213

Phone: (502) 964-8737
www.micro-analytics.com

Project Number: 72248 Date Sampled: 2/15/2023
 Client: City of Bowling Green Date Received: 2/15/2023
 Facility: 140 State Street Analysis Date: 2/16/2023
 Sample Type: Bulk Material Report Date: 2/16/2023
 Sampled By: Tim Lyday Analyst: J. Holley

Analytical Method: Polarized Light Microscopy with Dispersion Staining as Defined in 40 CFR, Part 763, Subpart F, Appendix A; EPA 600/M4-82-020

Sampling Method: "Asbestos-Containing Materials in Schools Rule" as Defined in 40 CFR Part 763, Subpart E


Bulk Asbestos Report

Laboratory Sample ID	Sample Description	Type and Percent Asbestos
1.1	Wallpaper, brown pattern	NAD
1.2	Wallpaper, brown pattern	NAD
2.1	Lay-In Ceiling Tile, lt. brown	NAD
2.2	Lay-In Ceiling Tile, lt. brown	NAD
3.1	Ceiling Texture, white	NAD
3.2	Ceiling Texture, white	NAD
3.3	Ceiling Texture, white	NAD
4.1	Plaster, white/grey	NAD
4.2	Plaster, white/grey	NAD
4.3	Plaster, white/grey	NAD
5.1	Linoleum, dk. brown	7-10% CHRY
5.2	Linoleum, dk. brown	7-10% CHRY
6.1	Linoleum, lt. brown pattern	7-10% CHRY
6.2	Linoleum, lt. brown pattern	7-10% CHRY
7.1	Drywall Ceiling, white	NAD
7.2	Drywall Ceiling, white	NAD
8.1	Plaster, grey/white	NAD

Reporting Limit 1% Asbestos NAD: No Asbestos Detected

The information provided in this report relate only to the items tested and received.

Reviewed and Released by Authorized Signatory


Nick Leow, Technical Manager

Micro-Analytics Inc. is an accredited laboratory through the American Industrial Hygiene Association (AIHA) Industrial Hygiene Laboratory Accreditation Program (IHLAP) and has demonstrated analytical proficiency through the Bulk Asbestos Proficiency Analytical Testing (PAT) Program.

AIHA LAP LLC #102266





3310-C Gilmore Industrial Boulevard
Louisville, Kentucky 40213

Phone: (502) 964-8737
www.micro-analytics.com

Project Number: 72248 Date Sampled: 2/15/2023
 Client: City of Bowling Green Date Received: 2/15/2023
 Facility: 140 State Street Analysis Date: 2/16/2023
 Sample Type: Bulk Material Report Date: 2/16/2023
 Sampled By: Tim Lyday Analyst: J. Holley

Analytical Method: Polarized Light Microscopy with Dispersion Staining as Defined in 40 CFR, Part 763, Subpart F, Appendix A; EPA 600/M4-82-020

Sampling Method: "Asbestos-Containing Materials in Schools Rule" as Defined in 40 CFR Part 763, Subpart E

Bulk Asbestos Report

Laboratory Sample ID	Sample Description	Type and Percent Asbestos
8.2	Plaster, grey/white	NAD
8.3	Plaster, grey/white	NAD
9.1	Linoleum, wood grain	NAD
	Linoleum, tan	NAD
9.2	Linoleum, wood grain	NAD
	Linoleum, tan	NAD
10.1	Fireplace Insulation, dk. brown	NAD
10.2	Fireplace Insulation, dk. brown	NAD
10.3	Fireplace Insulation, dk. brown	NAD
11.1	Duct Tape, grey	12-15% CHRY
11.2	Duct Tape, grey	12-15% CHRY
12.1	Block of Powder, white	NAD
12.2	Block of Powder, white	NAD
13.1	Pipe Insultation Debris, grey/white	10-12% CHRY
13.2	Pipe Insultation Debris, grey/white	10-12% CHRY
13.3	Pipe Insultation Debris, grey/white	10-12% CHRY
14.1	Linoleum, tan	NAD

Reporting Limit 1% Asbestos NAD: No Asbestos Detected

The information provided in this report relate only to the items tested and received.

Reviewed and Released by Authorized Signatory


Nick Leow, Technical Manager

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AIHA LAP LLC #102266





3310-C Gilmore Industrial Boulevard
Louisville, Kentucky 40213

Phone: (502) 964-8737
www.micro-analytics.com

Project Number: 72248 **Date Sampled:** 2/15/2023
Client: City of Bowling Green **Date Received:** 2/15/2023
Facility: 140 State Street **Analysis Date:** 2/16/2023
Sample Type: Bulk Material **Report Date:** 2/16/2023
Sampled By: Tim Lyday **Analyst:** J. Holley

Analytical Method: Polarized Light Microscopy with Dispersion Staining as Defined in 40 CFR, Part 763, Subpart F, Appendix A; EPA 600/M4-82-020

Sampling Method: "Asbestos-Containing Materials in Schools Rule" as Defined in 40 CFR Part 763, Subpart E

Bulk Asbestos Report

<i>Laboratory Sample ID</i>	<i>Sample Description</i>	<i>Type and Percent Asbestos</i>
	Linoleum, green	10-12% CHRY
14.2	Linoleum, tan	NAD
	Linoleum, green	10-12% CHRY
15.1	Linoleum, tan/pattern	7-10% CHRY
15.2	Linoleum, tan/pattern	7-10% CHRY
16.1	Roof Shingle + Felt, black	NAD
16.2	Roof Shingle + Felt, black	NAD
17.1	Transite Debris, white/grey	12-15% CHRY
17.2	Transite Debris, white/grey	12-15% CHRY
18.1	Window Glazing, white	NAD
18.2	Window Glazing, white	NAD

Reporting Limit 1% Asbestos **NAD:** No Asbestos Detected

The information provided in this report relate only to the items tested and received.

Reviewed and Released by Authorized Signatory


Nick Leow, Technical Manager

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AIHA LAP LLC #102266



Photographs

Photo Log



Photo 1. Pipe Insulation Debris.
Location: Basement next to the exterior door



Photo 2. Pile of Debris with asbestos containing transite panels.
Location: Dining Room



Photo 3. Asbestos containing transite panels.
Location: Dining Room debris pile

Inspector(s) Credentials



ANDY BESHEAR
GOVERNOR

REBECCA W. GOODMAN
SECRETARY

ENERGY AND ENVIRONMENT CABINET
DEPARTMENT FOR ENVIRONMENTAL PROTECTION

ANTHONY R. HATTON
COMMISSIONER

300 SOWER BOULEVARD
FRANKFORT, KENTUCKY 40601

August 9, 2022

Timothy Lyday
3310-C Gilmore Industrial Blvd
Louisville, Kentucky 40213

Asbestos Inspector
AI Number: 158523
License Number: 73288
Expires: July 13, 2023

Dear Timothy Lyday:

This is to acknowledge receipt of your application for accreditation as an asbestos abatement professional. Your application has been approved and the above-referenced card is enclosed.

Initial accreditation fee is \$100.00 per person per discipline, except for abatement worker (\$20.00). Renewal fees for accreditations within one year of the expiration date are one-half of the initial fees. Renewals for accreditations expired over one year require the initial fee. There is a \$10.00 duplication charge to replace a lost card. Please also note that the expiration date on your license is determined by the expiration date on the training certificate submitted with your application.

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- make sure to fill out the application completely, including your signature; and
- include current proof of training for the discipline(s) for which you are applying

If you have any questions regarding this matter, please call our office at (502) 782-6717.

Sincerely,

Emma Moreo

Emma Moreo
Field Support Section
Field Operations Branch

Commonwealth of Kentucky
Department for Environmental Protection
Division for Air Quality

Timothy Lyday
Has met the requirements of 401 KAR 58:005 and is accredited as an:

Asbestos Inspector

Agency Interest Id: **158523**
License Number: **73288**
Issue Date: **08/05/2022**
Expiration Date: **07/13/2023**



Enclosure

ANDY BESHEAR
GOVERNOR



REBECCA W. GOODMAN
SECRETARY

ENERGY AND ENVIRONMENT CABINET
DEPARTMENT FOR ENVIRONMENTAL PROTECTION

ANTHONY R. HATTON
COMMISSIONER

300 SOWER BOULEVARD
FRANKFORT, KENTUCKY 40601

November 23, 2022

Lee Harris Hagerthey
3310-C Gilmore Industrial Blvd
Louisville, Kentucky 40213

Asbestos Inspector
AI Number: 146420
License Number: 70583
Expires: November 16, 2023

Dear Lee Harris Hagerthey:

This is to acknowledge receipt of your application for accreditation as an asbestos abatement professional. Your application has been approved and the above-referenced card is enclosed.

Initial accreditation fee is \$100.00 per person per discipline, except for abatement worker (\$20.00). Renewal fees for accreditations within one year of the expiration date are one-half of the initial fees. Renewals for accreditations expired over one year require the initial fee. There is a \$10.00 duplication charge to replace a lost card. Please also note that the expiration date on your license is determined by the expiration date on the training certificate submitted with your application.

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- make sure to fill out the application completely, including your signature; and
- include current proof of training for the discipline(s) for which you are applying

If you have any questions regarding this matter, please call our office at (502) 782-6717.

Sincerely,

Emma Moreo
Field Support Section
Field Operations Branch

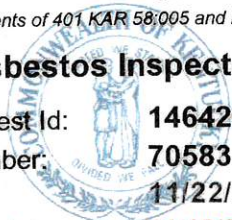
Commonwealth of Kentucky
Department for Environmental Protection
Division for Air Quality

Lee Harris Hagerthey

meets the requirements of 401 KAR 58:005 and is accredited as an:

Asbestos Inspector

Agency Interest Id: **146420**
License Number: **70583**
Issue Date: **11/22/2022**
Expiration Date: **11/16/2023**



An Equal Opportunity Employer M/F/D



3310-C Gilmore Industrial Boulevard
Louisville, Kentucky 40213

Phone: (502) 964-8737
www.micro-analytics.com

Asbestos NESHAP Inspection Report

Project Number: 72250 **Report Date:** February 24, 2023

Address: 533 East 2nd Avenue **City:** Bowling Green **State:** KY

Client: City of Bowling Green

Property Description: Institutional Commercial Public Industrial Residential

Inspection Date: February 14, 2023 **Inspector:** Timothy Lyday

Accreditation No.: KY 73288

Type of Inspection: Complete Facility Selective, specific areas
 Invasive/Destructive Non-invasive, non-destructive

Micro-Analytics, Inc. was retained by City of Bowling Green to conduct a thorough asbestos inspection at 533 East 2nd Avenue.

The asbestos inspection was performed in accordance with the EPA recommended protocol for a facility asbestos inspection. The inspection conforms to requirements defined in the following federal regulations, as well as any applicable state and/or local requirements:

- 40 CFR Part 763, Subpart E: Asbestos-Containing Materials in Schools
- The Asbestos School Hazard Abatement Reauthorization Act of 1990
- 29 CFR 1910.1001 OSHA General Industry Standards for Asbestos
- 40 CFR Part 61, Subpart M: National Emission Standard for Asbestos

The inspection was performed by Mr. Timothy Lyday, a Kentucky accredited asbestos inspector on February 14, 2023. During the site inspection, suspect asbestos-containing materials were grouped into homogeneous areas (HAs), with any given homogeneous area being a material exhibiting the same color, texture, and physical appearance. Each suspect homogeneous area was then sampled in accordance with EPA protocol, and each sample collected was given a unique identification number.

Collected samples were analyzed by an AIHA accredited laboratory using Polarized Light Microscopy (PLM) and the dispersion staining technique, the EPA-approved method for the analysis of bulk materials for the presence of asbestos.

This report summarizes the findings of the inspection. The report includes:

- An *Asbestos Materials Summary Form*, detailing the asbestos-containing materials discovered during the inspection.
- A *Homogeneous Areas Summary Form*, detailing all HAs identified during the inspection, both asbestos-containing materials and non-asbestos materials.
- A *Facility Drawing*, detailing locations where asbestos-containing materials are present in the surveyed areas.
- A *Bulk Analysis Report*, detailing the analytical results of the laboratory for the PLM analysis.
- A selection of *Photographs* to assist in interpreting the report.

Asbestos-containing materials (ACM) WERE identified within the area inspected. If asbestos-containing materials are present, their types and quantities are listed on the “*Asbestos Materials Summary Form*” that is part of this report.

Be advised that any identified asbestos-containing materials that would be impacted by any renovation or demolition at this property must be handled in strict accordance with the various federal, state, and local regulations.

The information contained within this report was prepared for the exclusive use and reliance of City of Bowling Green, their agents, and Micro-Analytics personnel. This information is based on the specific parameters of the scope of work for this project and the regulations in force at the time of this report. Micro-Analytics accepts no responsibility for the use, interpretation, or reliance by other parties on the information contained herein without the written authorization of Micro-Analytics.

LIMITATIONS

Destructive sampling techniques were utilized for this project; however some areas of the building may have been inaccessible due to safety concerns, access constraints or to avoid damaging any structural or load-bearing members. It is possible for hazardous materials (i.e. asbestos) to be contained in these inaccessible portions of the building. Care should be taken during demolition activities if unaccounted for hazardous materials are discovered. In the event of such a discovery, demolition activities that may disturb the newly discovered material should be halted until the material can be investigated by a certified asbestos inspector.

This report was prepared and reviewed by Mr. Timothy Lyday.



Asbestos-Containing Materials (ACM) Summary

Asbestos NESHAP Inspection – Summary of Asbestos-Containing Materials

Facility: 533 East 2nd Avenue

Date of Inspection: 2/14/2023

Location: Throughout

Inspector: Timothy Lyday

HA No.	Description	Locations of Material	Material Type	Material Quantity	ACM Category	Asbestos Content
01	Chimney Mastic	Exterior: Roof	Misc.	4 Ct	Non-Friable	Assumed

Homogeneous Areas Summary

Asbestos NESHAP Inspection – Summary of Homogeneous Areas

Facility: 533 East 2nd Avenue

Date of Inspection: 2/14/2023

Location: Throughout

Inspector: Timothy Lyday, Harris Hagerthey

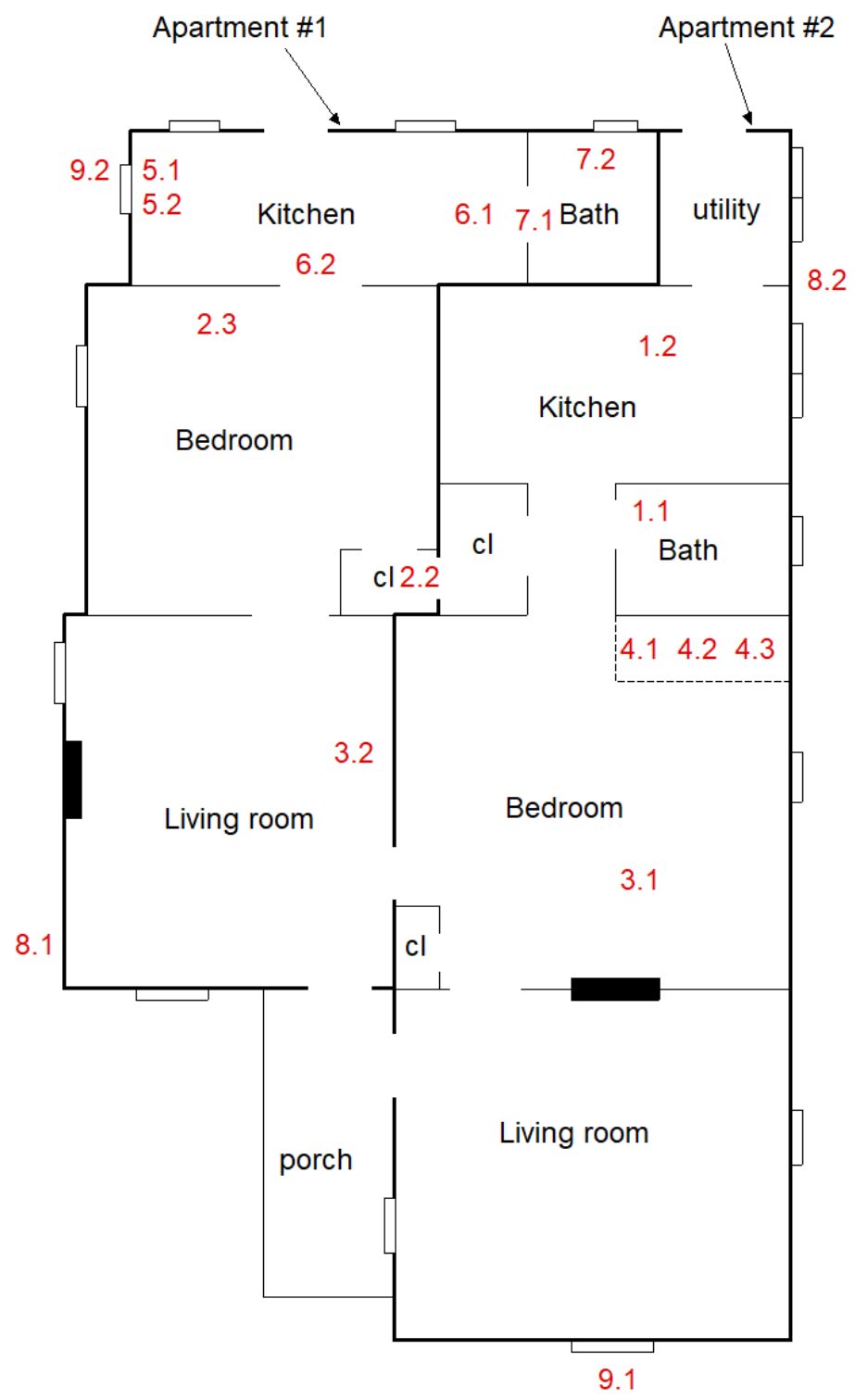
HA No.	Description	Locations of Material	Material Type	Material Quantity	Sample Numbers	Asbestos Content
01	Linoleum – Green	Apartment 2 Bathroom, Kitchen, & Utility Room	Misc.	NA	1.1-1.2	NAD
02	Plaster	Throughout	Surfacing	NA	2.1-2.3	NAD
03	Drywall	Throughout	Misc.	NA	3.1-3.2	NAD
04	Ceiling Texture	Apartment 2 Living Room	Surfacing	NA	4.1-4.3	NAD
05	Sink Coating – Black	Apartment 1 Kitchen	Misc.	NA	5.1-5.2	NAD
06	Linoleum – White	Apartment 1 Kitchen	Misc.	NA	6.1-6.2	NAD
07	Linoleum – Brown	Apartment 1 Bathroom	Misc.	NA	7.1-7.2	NAD
08	Roof Shingle	Exterior: Roof	Misc.	NA	8.1-8.2	NAD
09	Window Glazing	Exterior: Windows	Misc.	NA	9.1-9.2	NAD
10	Chimney Mastic	Exterior: Roof	Misc.	4 Ct.	NA	Assumed

Material Types: 1. Thermal System Insulation (TSI)
 2. Surfacing
 3. Miscellaneous

NAD = No Asbestos Detected

Inspection Drawings

9.1 - Sample location



Micro-Analytics, Inc.
 3310-C Gilmore Industrial Blvd.
 Louisville, KY 40213
 (502)964-8737

533 East 2nd Avenue, Bowling Green, KY

Project #	Drawn by	Scale	Date
72250	Harris Hagerthey	NTS	2/14/2023

Bulk Sample Log & Analytical Report



3310-C Gilmore Industrial Boulevard
Louisville, Kentucky 40213

Phone: (502) 964-8737
www.micro-analytics.com

Project Number: 72250 Date Sampled: 2/14/2023
 Client: City of Bowling Green Date Received: 2/14/2023
 Facility: 533 East 2nd Avenue Analysis Date: 2/16/2023
 Sample Type: Bulk Material Report Date: 2/16/2023
 Sampled By: T. Lyday Analyst: J. Holley

Analytical Method: Polarized Light Microscopy with Dispersion Staining as Defined in 40 CFR, Part 763, Subpart F, Appendix A; EPA 600/M4-82-020

Sampling Method: "Asbestos-Containing Materials in Schools Rule" as Defined in 40 CFR Part 763, Subpart E

Bulk Asbestos Report

<i>Laboratory Sample ID</i>	<i>Sample Description</i>	<i>Type and Percent Asbestos</i>
1.1	Linoleum, green	NAD
1.2	Linoleum, green	NAD
2.1	Plaster, white/grey	NAD
2.2	Plaster, white/grey	NAD
2.3	Plaster, white/grey	NAD
3.1	Drywall, white	NAD
3.2	Drywall, white	NAD
4.1	Ceiling Texture, white	NAD
4.2	Ceiling Texture, white	NAD
4.3	Ceiling Texture, white	NAD
5.1	Sink Coating, black	NAD
5.2	Sink Coating, black	NAD
6.1	Linoleum, white	NAD
6.2	Linoleum, white	NAD
7.1	Linoleum, brown	NAD
7.2	Linoleum, brown	NAD
8.1	Roof Shingle, black	NAD

Reporting Limit 1% Asbestos NAD: No Asbestos Detected

The information provided in this report relate only to the items tested and received.

Reviewed and Released by Authorized Signatory


Nick Leow, Technical Manager

Micro-Analytics Inc. is an accredited laboratory through the American Industrial Hygiene Association (AIHA) Industrial Hygiene Laboratory Accreditation Program (IHLAP) and has demonstrated analytical proficiency through the Bulk Asbestos Proficiency Analytical Testing (PAT) Program.

AIHA LAP LLC #102266





3310-C Gilmore Industrial Boulevard
Louisville, Kentucky 40213

Phone: (502) 964-8737
www.micro-analytics.com

Project Number: 72250 **Date Sampled:** 2/14/2023
Client: City of Bowling Green **Date Received:** 2/14/2023
Facility: 533 East 2nd Avenue **Analysis Date:** 2/16/2023
Sample Type: Bulk Material **Report Date:** 2/16/2023
Sampled By: T. Lyday **Analyst:** J. Holley

Analytical Method: Polarized Light Microscopy with Dispersion Staining as Defined in 40 CFR, Part 763, Subpart F, Appendix A; EPA 600/M4-82-020

Sampling Method: "Asbestos-Containing Materials in Schools Rule" as Defined in 40 CFR Part 763, Subpart E

Bulk Asbestos Report

<i>Laboratory Sample ID</i>	<i>Sample Description</i>	<i>Type and Percent Asbestos</i>
8.2	Roof Shingle, black	NAD
9.1	Window Glazing, white	NAD
9.2	Window Glazing, white	NAD

Reporting Limit 1% Asbestos NAD: No Asbestos Detected

The information provided in this report relate only to the items tested and received.

Reviewed and Released by Authorized Signatory


Nick Leow, Technical Manager

Micro-Analytics Inc. is an accredited laboratory through the American Industrial Hygiene Association (AIHA) Industrial Hygiene Laboratory Accreditation Program (IHLAP) and has demonstrated analytical proficiency through the Bulk Asbestos Proficiency Analytical Testing (PAT) Program.

AIHA LAP LLC #102266



Inspector(s) Credentials



ANDY BESHEAR
GOVERNOR

REBECCA W. GOODMAN
SECRETARY

ENERGY AND ENVIRONMENT CABINET
DEPARTMENT FOR ENVIRONMENTAL PROTECTION

ANTHONY R. HATTON
COMMISSIONER

300 SOWER BOULEVARD
FRANKFORT, KENTUCKY 40601

August 9, 2022

Timothy Lyday
3310-C Gilmore Industrial Blvd
Louisville, Kentucky 40213

Asbestos Inspector
AI Number: 158523
License Number: 73288
Expires: July 13, 2023

Dear Timothy Lyday:

This is to acknowledge receipt of your application for accreditation as an asbestos abatement professional. Your application has been approved and the above-referenced card is enclosed.

Initial accreditation fee is \$100.00 per person per discipline, except for abatement worker (\$20.00). Renewal fees for accreditations within one year of the expiration date are one-half of the initial fees. Renewals for accreditations expired over one year require the initial fee. There is a \$10.00 duplication charge to replace a lost card. Please also note that the expiration date on your license is determined by the expiration date on the training certificate submitted with your application.

When submitting application packets, please note the following:

- do not staple any of the application materials;
- make sure to fill out the application completely, including your signature; and
- include current proof of training for the discipline(s) for which you are applying

If you have any questions regarding this matter, please call our office at (502) 782-6717.

Sincerely,

Emma Moreo

Emma Moreo
Field Support Section
Field Operations Branch

Commonwealth of Kentucky
Department for Environmental Protection
Division for Air Quality

Timothy Lyday
Has met the requirements of 401 KAR 58:005 and is accredited as an:

Asbestos Inspector

Agency Interest Id: **158523**
License Number: **73288**
Issue Date: **08/05/2022**
Expiration Date: **07/13/2023**



Enclosure

ANDY BESHEAR
GOVERNOR



REBECCA W. GOODMAN
SECRETARY

ENERGY AND ENVIRONMENT CABINET
DEPARTMENT FOR ENVIRONMENTAL PROTECTION

ANTHONY R. HATTON
COMMISSIONER

300 SOWER BOULEVARD
FRANKFORT, KENTUCKY 40601

November 23, 2022

Lee Harris Hagerthey
3310-C Gilmore Industrial Blvd
Louisville, Kentucky 40213

Asbestos Inspector
AI Number: 146420
License Number: 70583
Expires: November 16, 2023

Dear Lee Harris Hagerthey:

This is to acknowledge receipt of your application for accreditation as an asbestos abatement professional. Your application has been approved and the above-referenced card is enclosed.

Initial accreditation fee is \$100.00 per person per discipline, except for abatement worker (\$20.00). Renewal fees for accreditations within one year of the expiration date are one-half of the initial fees. Renewals for accreditations expired over one year require the initial fee. There is a \$10.00 duplication charge to replace a lost card. Please also note that the expiration date on your license is determined by the expiration date on the training certificate submitted with your application.

When submitting application packets, please note the following:

- do not staple any of the application materials;
- make sure to fill out the application completely, including your signature; and
- include current proof of training for the discipline(s) for which you are applying

If you have any questions regarding this matter, please call our office at (502) 782-6717.

Sincerely,

Emma Moreo
Field Support Section
Field Operations Branch

Commonwealth of Kentucky
Department for Environmental Protection
Division for Air Quality

Lee Harris Hagerthey

meets the requirements of 401 KAR 58:005 and is accredited as an:

Asbestos Inspector

Agency Interest Id: **146420**
License Number: **70583**
Issue Date: **11/22/2022**
Expiration Date: **11/16/2023**



An Equal Opportunity Employer M/F/D