

# Lead-Based Paint Inspection & Risk Assessment

528 Virginia Avenue  
Ann Arbor, Michigan 48103

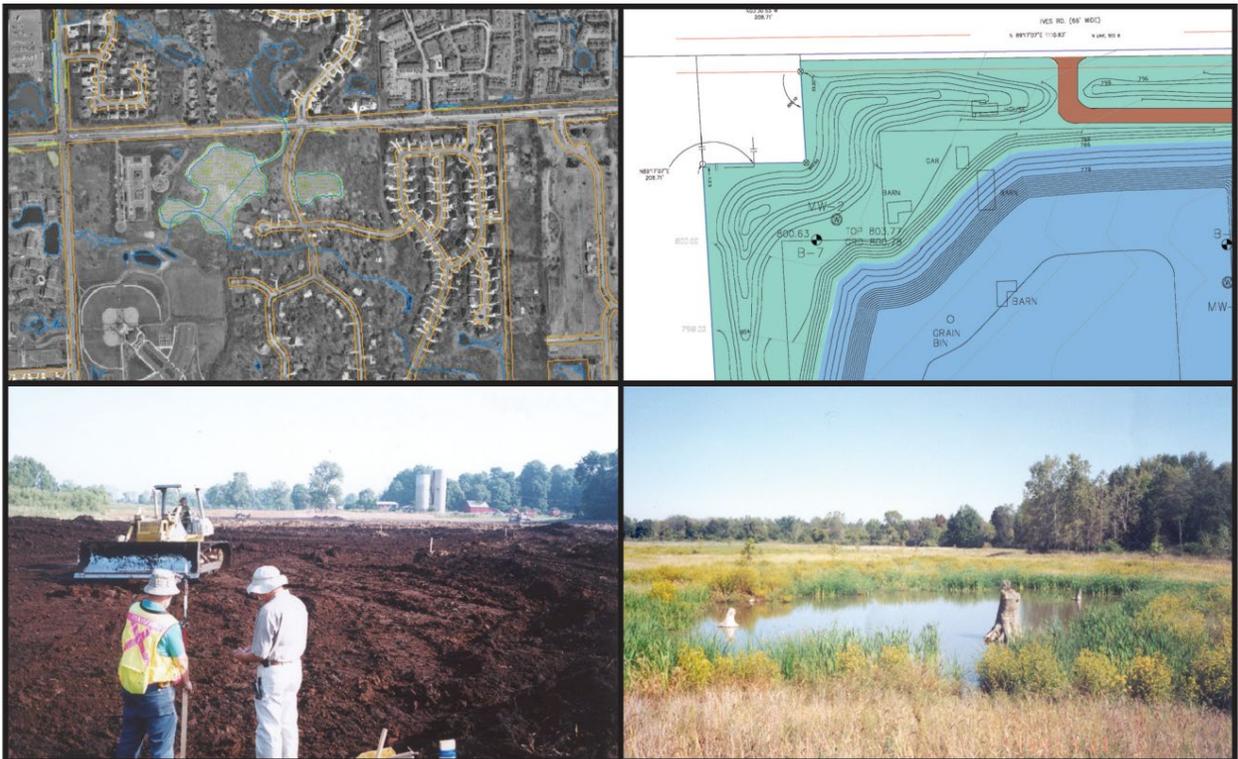
Ann Arbor Housing Development Corporation

LBP Inspection & Risk Assessment Date:

March 7, 2023

Report Date: April 13, 2023

ASTI ENVIRONMENTAL



# Lead-Based Paint Inspection & Risk Assessment

528 Virginia Avenue  
Ann Arbor, Michigan 48103

LBP Inspection & Risk Assessment Date:

March 7, 2023

Report Date: April 13, 2023

Prepared For:

Ann Arbor Housing Development Corporation  
2000 S. Industrial Highway  
Ann Arbor, MI 48104  
(734) 794-6720

**Report Prepared By:**

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**ASTI Project No. :12703**

Report Prepared by:



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Lead Inspector/Risk Assessor No. P-08947

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Lead Inspector/Risk Assessor No. P-02651



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## **Executive Summary**

ASTI Environmental (ASTI) conducted a Lead-Based Paint (LBP) Inspection and Risk Assessment of 528 Virginia Avenue, Ann Arbor, Michigan 48103 ("The Subject Property"), on March 7, 2023, on behalf of Ann Arbor Housing Development Corporation. As guidance, ASTI's work used the U.S. Department of Housing and Urban Development (HUD) Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing, (2012) and the Michigan Lead Hazard Control Rules. This LBP Inspection and Risk Assessment Report is prepared for the benefit of Ann Arbor Housing Development Corporation and ASTI acknowledges that said parties may rely on the contents, conclusions, and recommendations presented in this report. The services provided by ASTI in completing this inspection and risk assessment have been provided in a manner consistent with the normal standards of the profession. No other warranties, expressed or implied, are made.

### **Lead-Based Paint Inspection Results**

ASTI collected 125 measurements of painted surfaces. Of these measurements, 0 were positive for LBP. See Appendix C for all XRF measurements collected.

### **Lead-Based Paint Hazard Assessment Results**

During the evaluation, ASTI identified 0 areas with lead-based paint hazards, including deteriorated LBP and LBP on impact, friction or chewable surfaces. See Appendix C for all XRF measurements collected.

### **Lead Dust Wipe Sample Test Results**

ASTI personnel collected 25 lead dust wipe samples including 4 media blanks. Each sample was submitted to a NLLAP-certified laboratory. Review of the lead dust wipe sample results revealed that 0 of the samples collected exceeded the State of Michigan clearance levels and HUD and EPA standards (40 CFR Part 745.227). The current State of Michigan and HUD and EPA clearance levels for lead dust wipes are 10 micrograms per square foot ( $\mu\text{g}/\text{ft}^2$ ) for floors, 100  $\mu\text{g}/\text{ft}^2$  for window sills, 100  $\mu\text{g}/\text{ft}^2$  for window troughs (EPA and HUD are 400  $\mu\text{g}/\text{ft}^2$ ), and 40  $\mu\text{g}/\text{ft}^2$  for porches.

Refer to Table 1, Lead Dust Wipe Sample Results, for a summary of the lead dust wipe sample results along with a comparison to State of Michigan standards. Refer to Appendix F for a copy of the laboratory data sheets and associated chain-of-custody.

### **Soil Sample Results**

Bare soil was observed on the Property during ASTI's risk assessment in the front flower bed. One composite soil sample was collected and analyzed. Review of the test results revealed that the lead concentration in soil does not exceed HUD and EPA standard of 1,200 mg/kg of lead in bare soil. Refer to Table 2 for a complete summary of the lead soil sample results and refer to Appendix F for a copy of the laboratory data sheets and associated chain-of-custody.

### **Conclusions and Recommendations**

Based on the results of the LBP inspection and risk assessment, the property currently contains 0 paint-lead hazards, 0 dust-lead hazards, and 0 soil-lead hazards.

## **PURPOSE AND SCOPE OF WORK**

This report was prepared to present the results of a Lead-Based Paint (LBP) Inspection and Risk Assessment at 528 Virginia Avenue in Ann Arbor, Michigan 48103 (The Subject Property). Refer to the attached Site Location Map for the approximate site location. As guidance, ASTI's work used the United States Department of Housing and Urban Development (HUD) and the United States Environmental Protection Agency (EPA) statutes, regulations, and guidelines, as well as Michigan Lead Hazard Control Rules. This LBP Inspection and Risk Assessment report is prepared for the benefit of Ann Arbor Housing Development Corporation and ASTI acknowledges that said parties may rely on the contents, conclusions and recommendations presented in this report.

The LBP inspection and risk assessment activities were conducted on March 7, 2023. The LBP inspection and hazard risk assessment activities were completed by John Schuitema, Michigan Lead Risk Assessor No. P-07409, and Lathan Saperstein, Michigan Lead Risk Assessor No. P-08947. Their certifications are provided in Appendix A.

The purpose of the inspection and risk assessment was to identify any existing LBP and/or lead hazards that may exist at the Property. A LBP Inspection is an on-site investigation to determine the existence, nature, severity, and location of LBP hazards and the provision of a report explaining the results of the investigation and options for reducing the LBP hazards. A LBP Hazard Risk Assessment addresses the hazards related to friction, impact, and chewable surfaces that have LBP, potential hazards associated with lead dust inside the building, as well as the potential soil-lead hazards associated with bare soils outside the building. Lead hazards are defined in the EPA and HUD regulations and include the following six items:

- 1) Lead paint that is in deteriorated (flaking, chipped, peeling, etc.) condition;
- 2) Lead paint on a friction surface (rubbing doors, sliding windows, etc.) where associated dust levels exceed EPA and HUD lead dust concentration limits;
- 3) Lead paint on an impact surface (window sills, shelves, etc.) where the impact is caused by another building component;
- 4) Lead paint on a chewable surface (window sills, shelves, etc.) where there are visible teeth marks;

- 5) Lead-contaminated dust where levels exceed State of Michigan, EPA and HUD lead dust concentrations limits; and
- 6) Lead-contaminated soils where levels exceed State of Michigan, EPA and HUD lead concentration limits.

A LBP Hazard Risk Assessment identifies lead hazards by visual evaluation of the painted surfaces and the collection of dust, soil and/or deteriorated paint samples. The sample results are compared to associated lead concentration limits developed by the EPA, HUD, and the State of Michigan.

### Project Limitations

Through the completion of an LBP Inspection and Risk Assessment, problems or limitations can be encountered including areas or surfaces which cannot be tested due to locked doors, inclement weather, heights, vegetation, etc. Accordingly, some building components may not be tested or sampled, and these materials are assumed to be LBP.

The inside of the garage was locked and not able to be inspected. This space was also not accessible to tenants and was used exclusively by the property owner.

### Names and Labels of Buildings, Rooms and Walls

Locations of components in rooms or on exterior facades are described as:

*Side A* is the side facing the street.

*Side B* is the side to the left when viewed from the street.

*Side C* is the rear when viewed from the street.

*Side D* is the right side when viewed from the street.

### Regulatory Information

The scope of work (LBP Inspection and Risk Assessment) completed is conducted in general accordance with federal regulations (24 CFR Part 35 and 40 CFR Part 745) and Michigan Lead Hazard Control Rules, as well as protocols in *Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing* (2012). Results of the LBP inspection and risk assessment are compared to relevant standards promulgated by HUD, EPA and the State of Michigan.

**PROPERTY DESCRIPTION**

The Subject Property contains a two-story building, circa. 1960, with a garden-level and above grade apartment. Construction materials include gable roof, wood framing, brick façade, metal siding. Interior finishes include wood trim, carpet, and resilient flooring. A Site Features Map is provided. Refer to the attached Site Location Map for the approximate site location. Refer to the Photo Log in Appendix B for photos of the Property.

## **SURVEY METHODOLOGY**

### Lead-Based Paint Inspection

During the evaluation, ASTI collected 125 measurements of painted surfaces using a Viken Pb200i X-Ray Fluorescence (XRF) instrument.

The Viken Pb200i XRF, serial #2080, is equipped with a Cobalt-57 radioisotope. The XRF was resourced in 2021 and is calibrated at the start of each inspection, every four hours during the inspection, and at the conclusion of the inspection. Refer to Appendix C for all the XRF measurements collected.

### Lead-Based Paint Hazard Assessment

During the evaluation, ASTI identified 0 areas with lead-based paint hazards, including deteriorated LBP and LBP on impact, friction or chewable surfaces. See Appendix C for all XRF measurements collected.

### Lead Dust Assessment

ASTI personnel collected 25 lead dust wipe samples including 4 media blanks. See Appendix E. for a Building Condition Form. The dust wipe samples were collected as follows:

- Dust wipes were collected from the floors, window sills, and window troughs of each selected dwelling or common area;
- The wipe samples were then placed into a container, labeled with unique sample IDs, and sent to the following NLLAP-accredited laboratory for testing:
  - GPI  
4403 Donker Court SE  
Grand Rapids, Michigan 49512  
Phone: 616.608.0514

Following testing, the samples were compared to current State of Michigan, HUD, and EPA standards for lead dust to determine if any dust-lead hazards are present at the Property.

## **RESULTS**

### *Lead-Based Paint Inspection Results*

ASTI collected 125 measurements of painted surfaces. Of these measurements, 0 were positive for LBP. See Appendix C for all XRF measurements collected.

### *Lead-Based Paint Hazard Assessment Results*

During the evaluation, ASTI identified 0 areas with lead-based paint hazards, including deteriorated LBP and LBP on impact, friction or chewable surfaces. See Appendix C for all XRF measurements collected.

### *Lead Dust Wipe Sample Test Results*

ASTI personnel collected 25 lead dust wipe samples including 4 media blanks. Each sample was submitted to a NLLAP-certified laboratory. Review of the lead dust wipe sample results revealed that 0 of the samples collected exceeded the State of Michigan clearance levels and HUD and EPA standards (40 CFR Part 745.227). The current State of Michigan and HUD and EPA clearance levels for lead dust wipes are 10 micrograms per square foot ( $\mu\text{g}/\text{ft}^2$ ) for floors, 100  $\mu\text{g}/\text{ft}^2$  for window sills, 100  $\mu\text{g}/\text{ft}^2$  for window troughs (EPA and HUD are 400  $\mu\text{g}/\text{ft}^2$ ), and 40  $\mu\text{g}/\text{ft}^2$  for porches.

Refer to Table 1, Lead Dust Wipe Sample Results, for a summary of the lead dust wipe sample results along with a comparison to State of Michigan standards. Refer to Appendix F for a copy of the laboratory data sheets and associated chain-of-custody.

### *Soil Sample Results*

Bare soil was observed on the Property during ASTI's risk assessment in the front flower bed. One composite soil sample was collected and analyzed. Review of the test results revealed that the lead concentration in soil does not exceed HUD and EPA standard of 1,200 mg/kg of lead in bare soil. Refer to Table 2 for a complete summary of the lead soil sample results and refer to Appendix F for a copy of the laboratory data sheets and associated chain-of-custody.

### **RESULTS OF THE RISK ASSESSMENT**

1. 0 paint-lead hazards.
2. 0 dust-lead hazards.
3. 0 soil-lead hazards.

### **HAZARD CONTROL OPTIONS AND RECOMMENDATIONS**

Based on the results of the LBP hazard risk assessment, the Property currently contains 0 paint-lead hazards, 0 dust-lead hazards, and 0 soil-lead hazards.

**RE-EVALUATION SCHEDULE**

Refer to Appendix G HUD’s Standard Re-Evaluation Schedules and recommended frequencies for re-evaluation of interim controls.

**DISCLOSURE**

A summary of this report must be provided to each new tenant or purchaser of this Property under Federal law (24 CFR Part 35 and 40 CFR Part 745) before they become obligated under a tenant or sales contract. In addition, the complete report must also be provided to purchasers and made available to tenants. Landlords (lessors) and sellers are also required to distribute an educational pamphlet approved by the U.S. Environmental Protection Agency (EPA), entitled “Protect Your Family from Lead in Your Home”, and include standard warning language in their leases or sales contracts to ensure that parents have the information they need to protect their children from lead-based paint hazards.

**POISON PREVENTION**

For further information regarding lead-based paint hazards and poisoning prevention, consult the following resources:

Telephone Sources:

National Lead Information Center: .....800-424-LEAD  
U.S. Department of Housing and Urban Development: .....888-LEADLIST  
State of Michigan – Healthy Homes Section: .....866-691-LEAD

Publications:

*“Lead in Your Home: A Parent’s Reference Guide” U.S. EPA*  
*“Protect Your Family from Lead in Your Home” U.S. EPA*  
*“Lead Paint Safety: A Field Guide for Painting, Home Maintenance & Renovation Work” HUD*

Websites:

- Michigan Dept. of Community Health – Healthy Homes Section  
[www.michigan.gov/leadsafe](http://www.michigan.gov/leadsafe)
- HUD – Office of Healthy Homes and Lead Hazard Control  
[www.hud.gov/offices/lead](http://www.hud.gov/offices/lead)
- U.S. Environmental Protection Agency  
[www.epa.gov/lead](http://www.epa.gov/lead)



## DEFINITIONS

The following is a list of definitions of terms used throughout this report.

**Abatement:** A measure or set of measures designed to permanently eliminate lead-based paint hazards or lead-based paint. Abatement strategies include the removal of lead-based paint, enclosure, encapsulation, replacement of building components coated with lead-based paint, removal of lead-contaminated dust, and removal of lead-contaminated soil or overlaying of soil with a durable covering such as asphalt (grass and sod are considered interim control measures). All of these strategies require preparation; cleanup; waste disposal; post-abatement clearance testing; recordkeeping; and, if applicable, monitoring. (For full EPA definition, see 40 CFR 745.223).

**Bare soil:** Soil not covered with grass, sod, some other similar vegetation, or paving, including the sand in sandboxes.

**Chewable surface:** An interior or exterior surface painted with lead-based paint that a young child can mouth or chew. A chewable surface is the same as an “accessible surface” as defined in 42 U.S.C. 4851b(2). Hard metal substrates and other materials that cannot be dented by the bite of a young child are not considered chewable.

**Deteriorated paint:** Any paint coating on a damaged or deteriorated surface or fixture, or any interior or exterior lead-based paint that is peeling, chipping, blistering, flaking, worn, chalking, cracking or otherwise becoming separated from the substrate.

**Drip-line/foundation area:** The area within 3 feet out from the building wall and surrounding the perimeter of a building.

**Dust-lead hazard:** Surface dust in residences that contains an area or mass concentration of lead equal to or in excess of the standard established by the EPA under Title IV of the Toxic Substances Control Act. EPA standards for dust-lead hazards, which are based on wipe samples, are published at 40 CFR 745.65(b); as of March 8, 2021 these are 10 µg/ft<sup>2</sup> on floors, 100 µg/ft<sup>2</sup> on interior window sills, and 400 µg/ft<sup>2</sup> on interior window troughs. Michigan standards are 10 µg/ft<sup>2</sup> on floors, 100 µg/ft<sup>2</sup> on interior windowsills and window troughs, and 40 µg/ft<sup>2</sup> for porches.

**Friction surface:** Any interior or exterior surface, such as a window or stair treads, subject to abrasion or friction.

**Garden area:** An area where plants are cultivated for human consumption or for decorative purposes.

**Impact surface:** An interior or exterior surface (such as surfaces on doors) subject to damage by repeated impact or contact.

**Interim controls:** A set of measures designed to temporarily reduce human exposure or possible exposure to lead-based paint hazards. Such measures include, but are not limited

to, specialized cleaning, repairs, maintenance, painting, temporary containment, and the establishment and operation of management and resident education programs. Monitoring, conducted by owners, and reevaluations, conducted by professionals, are integral elements of interim control. Interim controls include dust removal; paint film stabilization; treatment of friction and impact surfaces; installation of soil coverings, such as grass or sod; and land use controls. Interim controls that disturb painted surfaces are renovation activities under EPA's Renovation, Repair and Painting Rule.

**Lead-based paint:** Any paint, varnish, shellac, or other coating that contains lead equal to or greater than 1.0 mg/cm<sup>2</sup> as measured by XRF or laboratory analysis, or 0.5 percent by weight (5000 mg/g, 5000 ppm, or 5000 mg/kg) as measured by laboratory analysis. (Local definitions may vary.)

**Lead-based paint hazard:** A condition in which exposure to lead from lead-contaminated dust, lead-contaminated soil, or deteriorated lead-based paint would have an adverse effect on human health (as established by the EPA at 40 CFR 745.65, under Title IV of the Toxic Substances Control Act). Lead-based paint hazards include, for example, paint-lead hazards, dust-lead hazards, and soil-lead hazards.

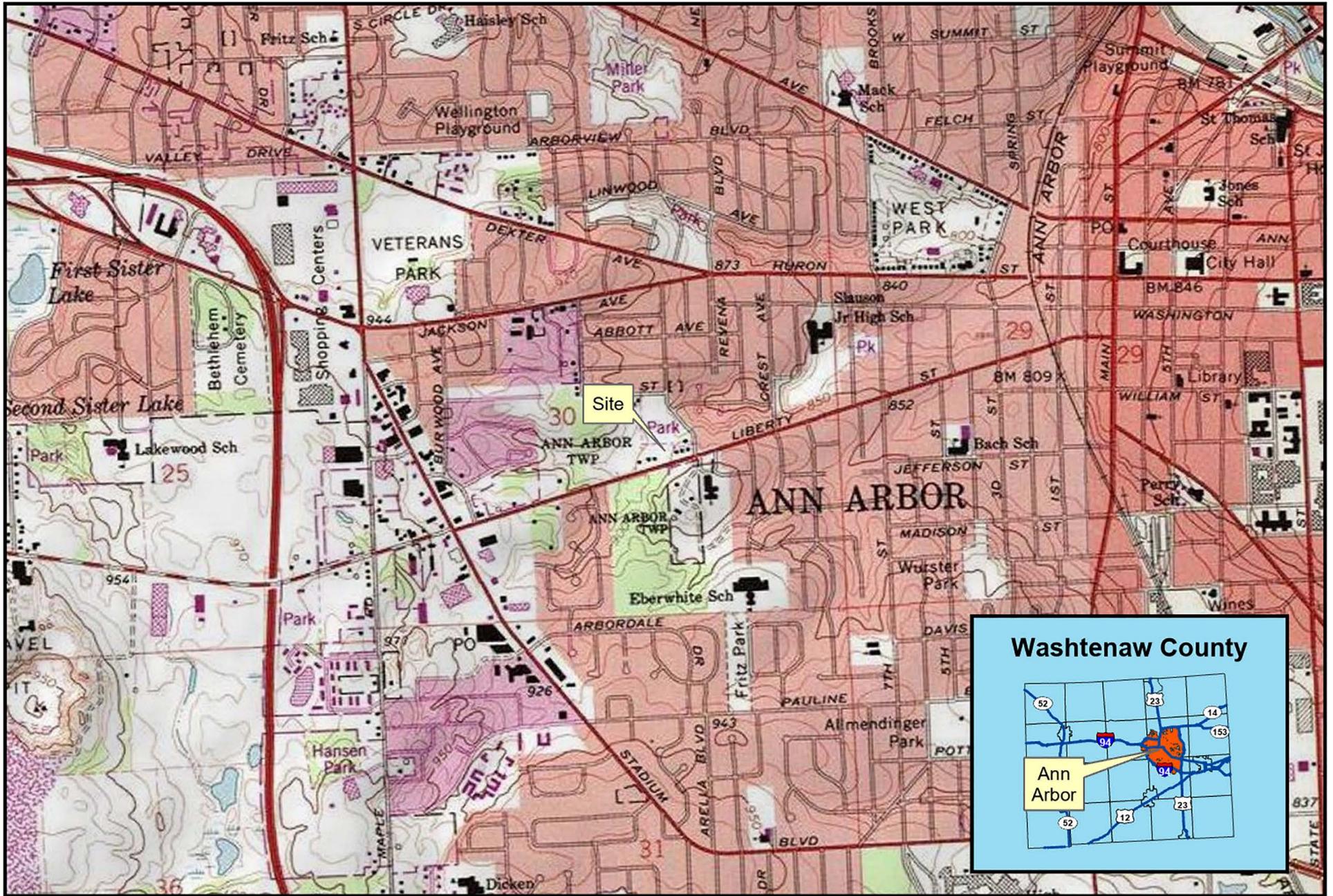
**Paint-lead hazard:** Lead-based paint on a friction surface that is subject to abrasion and where a dust-lead hazard is present on the nearest horizontal surface underneath the friction surface (e.g., the window sill, or floor); damaged or otherwise deteriorated lead-based paint on an impact surface that is caused by impact from a related building component; a chewable lead-based painted surface on which there is evidence of teeth marks; or any other deteriorated lead-based paint in any residential building or child-occupied facility or on the exterior of any residential building or child-occupied facility.

**Play area:** An area of frequent soil contact by children of under age 6 as indicated by, but not limited to, such factors including the following: the presence of outdoor play equipment (e.g., sandboxes, swing sets, and sliding boards), toys, or other children's possessions, observations of play patterns, or information provided by parents, residents, care givers, or property owners.

**Soil-lead hazard:** Bare soil on residential property that contains lead in excess of the standard established by the EPA under Title IV of the Toxic Substances Control Act. EPA standards for soil-lead hazards, published at 40 CFR 745.65(c), as of the publication of this edition of these *Guidelines*, is 400 µg/g in play areas and 1,200 µg/g in the rest of the yard; also called lead-contaminated soil.

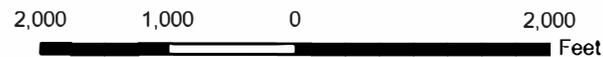
## **FIGURES**

- 1 Site Location Map
- 2 Site Features Map
- 3 Floor Plans



1474-1484 Liberty, & 528 Virginia

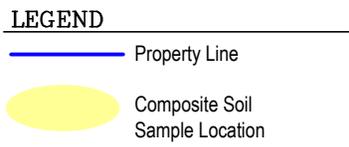
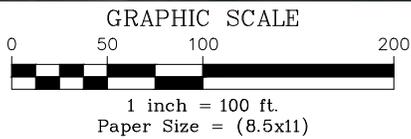
Ann Arbor, MI



Created for: Ann Arbor Housing Development Corporation  
 Created by: RMH, March 24, 2023, ASTI Project 12703

Figure 1 ~  
 Site Location Map

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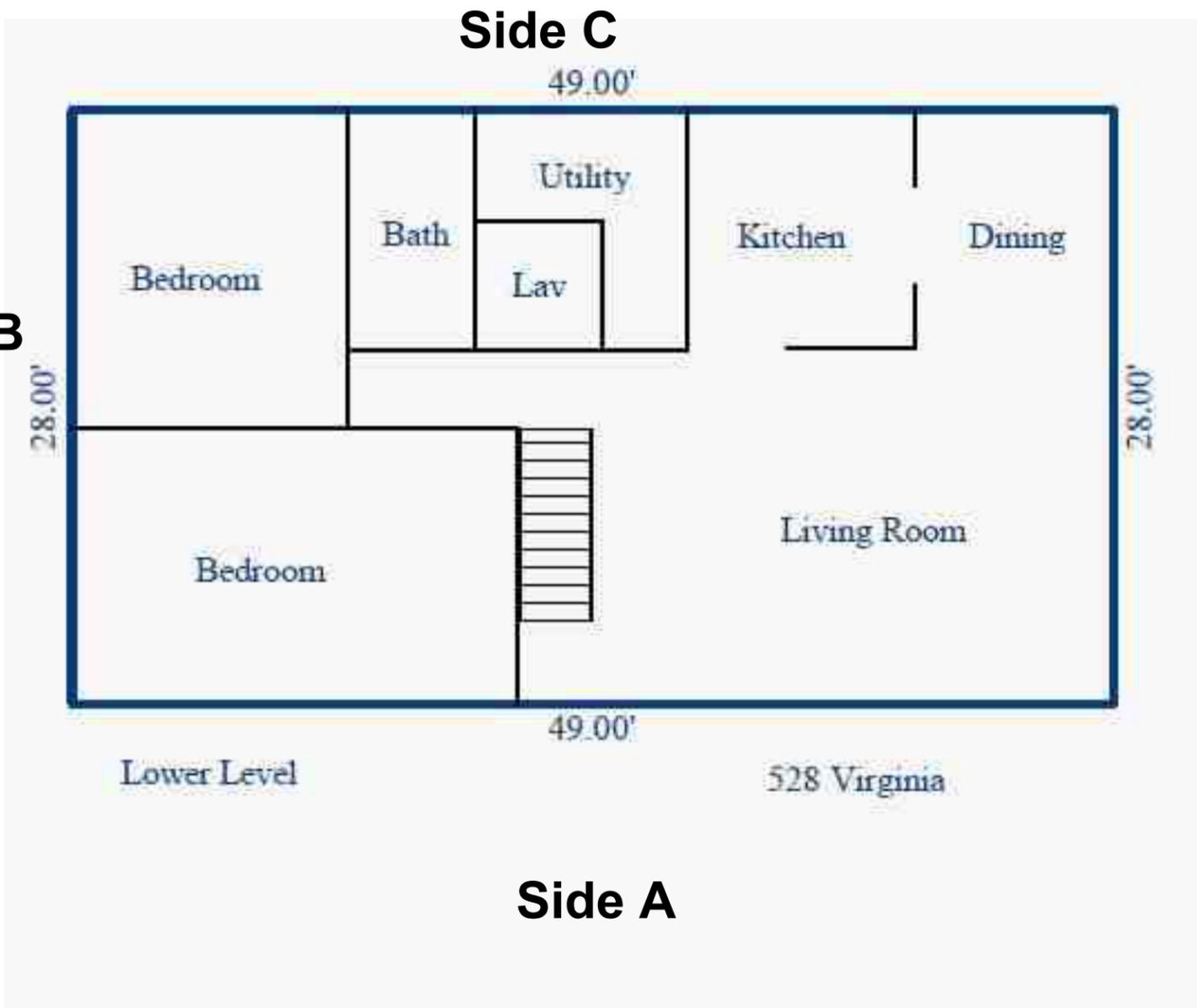
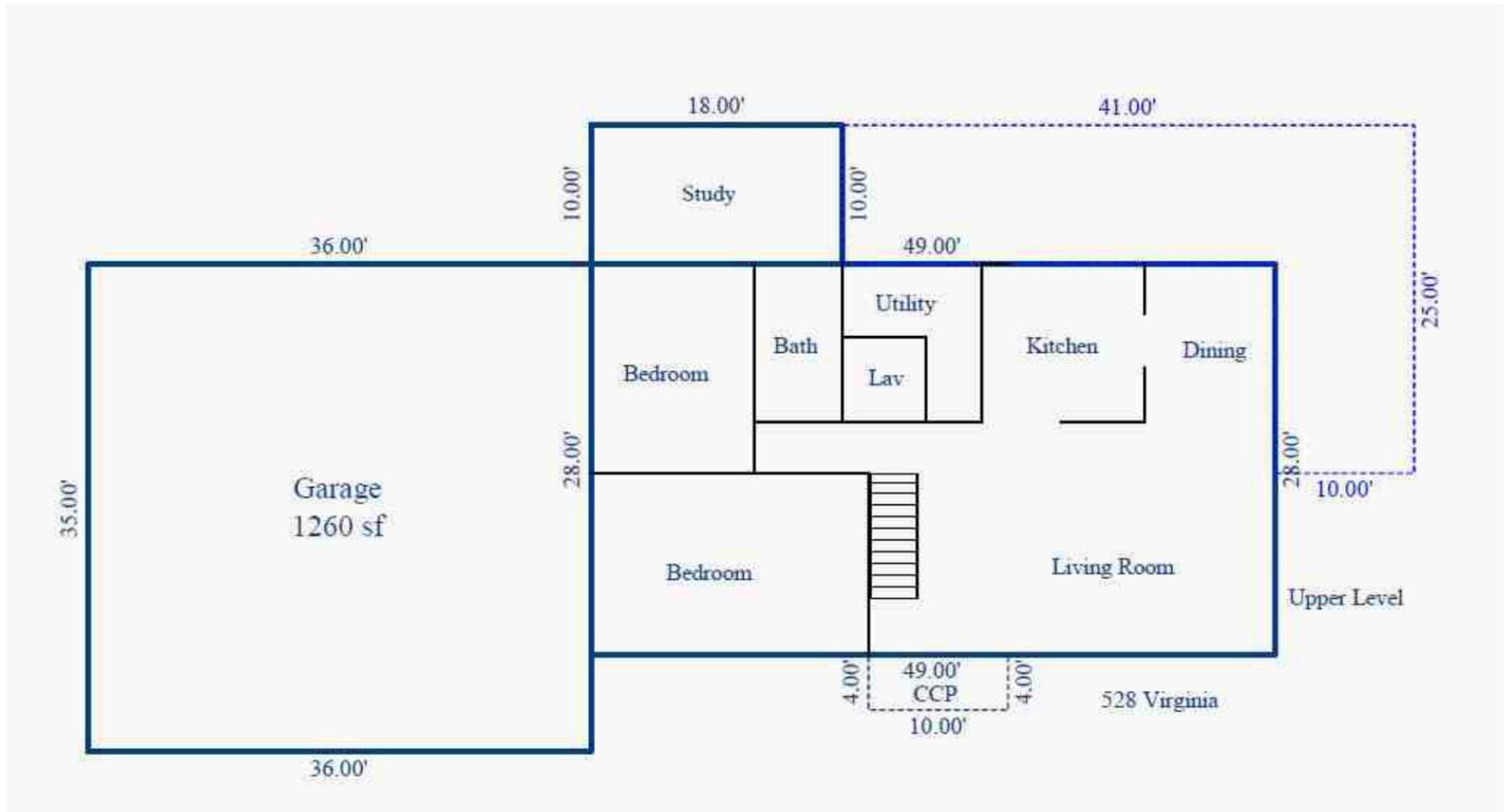
1528 Virginia Ave.

Ann Arbor, MI



Client: Ann Arbor Housing Development Corporation  
ASTI Project 1-12703, JRN, March 22, 2023

Figure 2 -  
Site Features Map



Not To Scale

Ann Arbor MI

LEGEND

## **Tables**

- 1 Lead Dust Wipe Sample Results
- 2 Soil Sample Results

**Table 1**  
**Lead Dust Samples**

528 Virginia Avenue  
Ann Arbor, MI 48103

Sample Number	Unit	Room	Surface	Lead Dust ( $\mu\text{g}/\text{ft}^2$ )	Standard* ( $\mu\text{g}/\text{ft}^2$ )	Below Standard?
FL-01	528-1	Bedroom 1	Floor	< RL	10	Yes
FL-02	528-1	Bedroom 2	Floor	< RL	10	Yes
FL-03	528-1	Bedroom 3	Floor	< RL	10	Yes
FL-04	528-1	Kitchen	Floor	< RL	10	Yes
FL-05	528-1	Livingroom	Floor	< RL	10	Yes
FL-06	528-1	Bathroom	Floor	< RL	10	Yes
WS-01	528-1	Bedroom 1	Window Sill	< RL	100	Yes
WS-02	528-1	Bedroom 2	Window Sill	< RL	100	Yes
WS-03	528-1	Bedroom 3	Window Sill	< RL	100	Yes
WS-04	528-1	Kitchen	Window Sill	< RL	100	Yes
WS-05	528-1	Livingroom	Window Sill	< RL	100	Yes
FL-01	528-2	Bedroom 1 Kids Room	Floor	< RL	10	Yes
FL-02	528-2	Porch / Play Area	Floor	< RL	10	Yes
FL-03	528-2	Bedroom 3	Floor	< RL	10	Yes
FL-04	528-2	Bathroom 1	Floor	< RL	10	Yes
FL-05	528-2	Kitchen	Floor	< RL	10	Yes
FL-06	528-2	Living Room	Floor	< RL	10	Yes
WS-01	528-2	Bedroom 1 Kids Room	Window Sill	< RL	100	Yes
WS-02	528-2	Porch / Play Area	Window Sill	7.5	100	Yes
WS-06	528-2	Living Room	Window Sill	< RL	100	Yes
WS-05	528-2	Kitchen	Window Sill	< RL	100	Yes
FL-01	Office	Field Blank	Blank	<RL	N/A	N/A
FL-02	Office	Field Blank	Blank	<RL	N/A	N/A
FL-03	Office	Field Blank	Blank	<RL	N/A	N/A
WS-01	Office	Field Blank	Blank	<RL	N/A	N/A
<b>Bold results indicate exceedance of standards</b>						

**Bold results indicate an  
exceedance of standards.**

<RL=Less than the reporting limit (5  $\mu\text{g}/\text{ft}^2$ )

N/A=Not Applicable

**Table 2**  
**Lead Soil Samples**

528 Virginia Avenue  
Ann Arbor, MI 48103

<b>Sample Number</b>	<b>Location</b>	<b>Lead in Soil Results (mg/Kg)</b>	<b>Standard* (mg/Kg)</b>	<b>Below Standard?</b>
SL-528	Front Flower Bed	90.71	1,200	Yes

**Bold results indicate exceedance of standards**

## APPENDICES

ASTI Project No.:12703

528 Virginia Avenue



**Appendix A**  
**Resumes & Credentials of ASTI Personnel**

ASTI Project No.:12703

528 Virginia Avenue





**JOHN F. SCHUITEMA**  
Associate II

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## PROFILE

### Certifications

Asbestos Inspector (A51781)  
Michigan Lead Inspector/Risk Assessor (P-07409)  
ICC Property Maintenance Inspector  
ICC Zoning Inspector  
40-Hour OSHA HAZWOPER Training  
8-Hour OSHA HAZWOPER Refresher

### Education

Lead Inspector/Risk Assessor Training  
Asbestos Awareness Training  
Lead Awareness Training  
Asbestos Inspector Training

### Experience History

Associate I, ASTI Environmental  
Field Technician, ASTI Environmental  
Government

### Professional Background

Mr. Schuitema has experience in the field with soil sampling, lead dust sampling, asbestos surveys, air monitoring, hazardous materials surveys, and lead inspections. Mr. Schuitema has assisted with Phase II investigations, property condition assessments, mold sampling, indoor air quality assessments, moisture operation and maintenance plans, and performed health and safety related building inspections.

### **Years' Experience:**

5—ASTI ENVIRONMENTAL  
3—Government

## **ENVIRONMENTAL DUE DILIGENCE AND SITE INVESTIGATION PROJECTS**

### Environmental Site Assessments

Completed numerous site assessments for a variety of projects (vacant land, agricultural, residential, commercial, and industrial), to determine the environmental condition of sites for real estate transactions. Projects involved both surface and subsurface evaluations of sites for a variety of hazardous substances.

## **ASBESTOS AND LEAD INSPECTION AND RISK ASSESSMENTS**

Responsible for asbestos inspections and lead inspections and risk assessments on commercial, multi-family, and single-family properties.

### Lead Based Paint Inspections and Risk Assessments, Flint Housing Commission

Inspection of lead hazards throughout Flint's public housing complexes, dust wipe sample collection for laboratory analysis, XRF sampling, and writing the report to the Flint Housing Commission with findings and compliance requirements.

### Large Apartment Complex in Flint, Michigan

Conducted asbestos inspections of over 100 residential units. Collected samples of suspect ACM for laboratory analysis. Provided report to the City of Flint with findings and compliance requirements.

## **INDOOR AIR QUALITY AND MOLD**

Conducted mold assessments and verification sampling on municipal buildings, schools, and private facilities in the State of Michigan. Assessment scopes included mold identification and moisture infiltration, abatement scope design, and post abatement visual inspection and clearance sampling.

Conducted visual and indoor air quality clearance samples for multiple residential homes following ACM removal, prior to demolition, throughout the State of Michigan.

### Highrise Apartment Building Detroit, Michigan

Monitored indoor air quality during removal of asbestos containing materials. Provided clearance air sampling upon completion.

### Multiple School Buildings Detroit, Michigan

Performed visual inspection, tape lift samples, air sampling, and moisture readings to evaluate potential mold growth. Completed clearance inspection and

sampling after remediation and provided the client with a report of methods and findings.

## **PROPERTY CONDITION ASSESSMENTS**

Completed inspections of commercial, industrial, and residential properties in the State of Michigan. Identified physical deficiencies, material defects, and deferred maintenance. Reported findings, including cost estimates for repairs and replacements deemed necessary.

## **STORM WATER INSPECTIONS**

Performed inspections of construction sites to determine compliance with state storm water regulations. Reported deficiencies and recommend remedies.

### Large Apartment Complex Howell, Michigan

Conducted weekly inspections during construction to ensure compliance with construction storm water regulations. Provided weekly report with findings, deficiencies, and remedy options to the client and County.

## **WASTEWATER OPERATIONS**

### Super Fund Site, St. Joseph, Michigan

Performed monthly maintenance and sampling to insure proper operation and compliance with applicable regulations. Maintained air stripper and CatOx system for removal of VOCs from contaminated groundwater.

## **AIR MONITORING**

### Former McLouth Steel Site, Trenton, Michigan

Operated outdoor air monitoring and sampling stations to ensure chemicals of concern and fugitive dust did not leave the property. Performed real time air monitoring during demolition activities.



**MICHIGAN DHHS**



**JOHN SCHUITEMA**  
LEAD INSPECTOR/RISK ASSESSOR

**P-007409**

<b>ANNUAL FEE DUE:</b>		<b>TRAINING &amp; EXAM DUE:</b>
<b>03/31/24</b>		<b>03/31/26</b>

**LEAD CERTIFICATION AND  
COMPLIANCE ASSURANCE SECTION**



**Lathan Saperstein**  
Environmental Field Technician

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## PROFILE

### Certifications

Michigan Lead Inspector/Risk Assessor (P-08947)  
NRPP Radon Measurement Professional (NRPP# 112408-RMP)  
Michigan Asbestos Inspector (A58122)  
29 CFR 1910.120 40-Hour OSHA HAZWOPER Training  
Indiana Secondary Radon Tester License (RTS 01117)  
Indiana Lead Inspector/Risk Assessor (IND001981)  
Ohio Radon Tester (RT1776)  
Ohio Lead Inspector/Risk Assessor (LA9629)

### Education

Wayne State University, B.Sc. Environmental Science  
Asbestos Inspector Initial Training  
Lead Inspector/Risk Assessor Initial Training  
NRPP Multi-Family Measurement Certificate

### Experience History

Environmental Field Technician, ASTI Environmental  
Research Assistant, Wayne State University, Environmental Radioisotope Laboratory

### Professional Background

Lathan Saperstein is a recent addition to ASTI. They have experience in the field performing radon testing, lead based paint inspections, and lead dust sampling. In addition, they have assisted with field sampling of asbestos containing materials and mold testing. At university, they were involved in radio-chronometry research using radon progeny radioisotopes, such as lead-210 / polonium-210 disequilibria, and cosmogenic beryllium-7 fallout.

### **Years' Experience:**

1—ASTI ENVIRONMENTAL  
2—Academia

## **LEAD INSPECTIONS & RISK ASSESSMENTS**

Responsible for lead inspections and risk assessments on commercial, multi-family, and single-family properties in Michigan, Ohio, and Indiana.

### Multifamily Housing, Detroit, MI

Completed lead risk assessment of rented apartments in compliance with City of Detroit regulations. Utilized dust wipe sampling, soil sampling, XRF technology and visual inspections to identify lead hazards.

### Commercial Property, Detroit, MI

Inspected painted surfaces for lead-based paint utilizing XRF technology, conducted wipe sampling to determine of lead dust hazards, and collected water samples to quantify lead in drinking water.

### Child Occupied Facilities, Detroit, MI

Completed Lead Hazard Screens of Childcare facilities in accordance with State Regulations. Utilized dust wipe sampling, soil sampling, XRF technology and visual inspections to identify lead hazards based on facility/occupant use patterns.

### Clearance Activities, Multifamily Housing, Detroit, MI

Visually inspected completed of Lead Based Paint Abatement activities and utilized dust wipe sampling to verify resident health and safety.

## **ASBESTOS INSPECTIONS & PRE-DEMOLITION HAZARDOUS MATERIALS EVALUATIONS**

### Multiple Bridges, Eaton County, MI

Assisted with inspection and sampling of asbestos containing materials prior to renovation work.

### Commercial Buildings, Lenawee County, MI

Evaluated structures for hazardous materials and assisted with inspection and sampling of asbestos containing building materials, prior to building demolition.

### Single Family Housing, Genesee County, MI

Evaluated multiple structures for hazardous materials and inspected for and sampled suspect asbestos containing building materials, prior to building demolition.

### Multifamily Highrise, Detroit, MI

Inspected for and sampled suspect asbestos containing building materials, prior to building renovation and rehabilitation activities.

## **AIR MONITORING**

### Former McLouth Steel Site, Trenton, Michigan

Assisted with outdoor air monitoring and sampling to ensure chemicals of concern and fugitive dust did not leave the property.

## **INDOOR AIR QUALITY AND MOLD**

### Office Building, Ann Arbor, MI

Conducted IAQ sampling in a large office building to address concerns of generator exhaust intrusion. Monitored indoor conditions in real time for temperature, relative humidity, carbon dioxide and carbon monoxide

### Commercial Property, Detroit, MI

Assisted with Mold investigation of an unoccupied property. Performed visual inspection, tape lift sampling, bulk sampling and utilized moisture readings to evaluate affected substrates.

### Negative Exposure Assessment, Benton Harbor, MI

Utilized high volume air sampling pumps and Phase Contrast Microscopy (PCM) to verify resident health and safety during ongoing renovation of buildings with asbestos containing drywall.

## **RADON TESTING**

Responsible for radon testing in Michigan, Ohio, and Indiana.

### Apartments, Ferndale, MI

Performed short-term radon testing in accordance with HUD guidelines and the American Association of Radon Scientists and Technologists' (AARST) MAMF-2017 Rev.1-21, Protocol for Conducting Radon and Radon Decay Product Measurements in Multifamily Buildings.

### Single Family Housing Development, Pontiac, MI

Performed short-term radon testing of multiple single-family homes in accordance with HUD guidelines and the American Association of Radon Scientists and Technologists' (AARST) MAH-2019, Protocol for Conducting Radon and Radon Decay Product Measurements in Homes.

### Commercial Building, Detroit, MI

Performed short-term radon testing in accordance with HUD guidelines and the American Association of Radon Scientists and Technologists' (AARST) MALB-2014 Rev.1-21, Protocol for Conducting Radon and Radon Decay Product Measurements in Schools and Large Buildings.

### Multifamily Housing, Flint, MI

Performed short-term radon testing in accordance with AARST MAMF 2017 Rev. 1-21 testing to determine mitigation needs and conducted post-mitigation clearance testing to demonstrate mitigation system efficacy.

MDHHS



**LATHAN SAPERSTEIN**

LEAD INSPECTOR/RISK ASSESSOR

P-008947

ANNUAL FEE DUE: 03/31/24

TRAINING & EXAM DUE: 03/31/24



LEAD CERTIFICATION AND COMPLIANCE ASSURANCE SECTION

**Appendix B**

**Photo Log**

ASTI Project No.:12703

528 Virginia Avenue



# PHOTO LOG

528 Virginia Avenue, Ann Arbor, Michigan



Photo 1. View Of Side A



Photo 2. View of Side B



Photo 3. View of Side C

# PHOTO LOG

528 Virginia Avenue, Ann Arbor, Michigan



**Photo 4.** View of Side D



**Photo 5.** View of The Garage (Side A)

**Appendix C**  
**All XRF Readings**

ASTI Project No.:12703

528 Virginia Avenue



No.	Time	Type	Value	Units	Apartment	Room	Room Choice	Structure	Member	Substrate	Wall	Condition	Result
2200	12:53:09 PM	Lead Paint	1.2	mg/cm2		Calibration							
2201	12:53:37 PM	Lead Paint	1.1	mg/cm2		Calibration							
2202	12:54:04 PM	Lead Paint	1	mg/cm2		Calibration							
2203	1:06:23 PM	Lead Paint	0.3	mg/cm2	528-2	House	Bedroom 1	Room	Wall	Plaster	A	Intact	Negative
2204	1:06:45 PM	Lead Paint	0.3	mg/cm2	528-2	House	Bedroom 1	Room	Wall	Plaster	B	Intact	Negative
2205	1:07:04 PM	Lead Paint	0.3	mg/cm2	528-2	House	Bedroom 1	Room	Wall	Plaster	C	Intact	Negative
2206	1:07:18 PM	Lead Paint	0.3	mg/cm2	528-2	House	Bedroom 1	Room	Wall	Plaster	D	Intact	Negative
2207	1:07:53 PM	Lead Paint	0.3	mg/cm2	528-2	House	Bedroom 1	Room	Ceiling	Plaster	C	Intact	Negative
2208	1:08:24 PM	Lead Paint	0.1	mg/cm2	528-2	House	Bedroom 1	Closet	Wall	Plaster		Intact	Negative
2209	1:09:42 PM	Lead Paint	0.3	mg/cm2	528-2	House	Bedroom 2	Closet	Wall	Plaster		Intact	Negative
2210	1:10:09 PM	Lead Paint	0.3	mg/cm2	528-2	House	Bedroom 2	Room	Wall	Plaster	A	Intact	Negative
2211	1:10:27 PM	Lead Paint	0.4	mg/cm2	528-2	House	Bedroom 2	Room	Wall	Plaster	B	Intact	Negative
2212	1:10:50 PM	Lead Paint	0.2	mg/cm2	528-2	House	Bedroom 2	Room	Wall	Plaster	C	Intact	Negative
2213	1:11:13 PM	Lead Paint	0.3	mg/cm2	528-2	House	Bedroom 2	Room	Wall	Plaster	D	Intact	Negative
2214	1:11:38 PM	Lead Paint	0.1	mg/cm2	528-2	House	Bedroom 2	Room	Ceiling	Plaster	D	Intact	Negative
2215	1:12:41 PM	Lead Paint	0.3	mg/cm2	528-2	House	Bedroom 3	Room	Ceiling	Plaster	D	Intact	Negative
2216	1:13:07 PM	Lead Paint	0.3	mg/cm2	528-2	House	Bedroom 3	Room	Wall	Plaster	A	Intact	Negative
2217	1:13:22 PM	Lead Paint	0.2	mg/cm2	528-2	House	Bedroom 3	Room	Wall	Plaster	B	Intact	Negative
2218	1:13:45 PM	Lead Paint	0.3	mg/cm2	528-2	House	Bedroom 3	Room	Wall	Plaster	C	Intact	Negative
2219	1:14:08 PM	Lead Paint	0	mg/cm2	528-2	House	Bedroom 3	Room	Wall	Plaster	D	Intact	Negative
2220	1:14:59 PM	Lead Paint	0.2	mg/cm2	528-2	House	Enclosed Porch	Room	Wall	Wood	D	Intact	Negative
2221	1:15:30 PM	Lead Paint	0.7	mg/cm2	528-2	House	Enclosed Porch	Room	Wall	Concrete	B	Intact	Negative
2222	1:16:08 PM	Lead Paint	0.1	mg/cm2	528-2	House	Enclosed Porch	Room	Wall	Wood	C	Intact	Negative
2223	1:16:37 PM	Lead Paint	0.2	mg/cm2	528-2	House	Enclosed Porch	Window	Sill	Wood	C	Intact	Negative
2224	1:17:13 PM	Lead Paint	0.1	mg/cm2	528-2	House	Enclosed Porch	Door	---	Wood	B	Intact	Negative
2225	1:17:42 PM	Lead Paint	0.1	mg/cm2	528-2	House	Enclosed Porch	Door	---	Wood	A	Intact	Negative
2226	1:18:04 PM	Lead Paint	0	mg/cm2	528-2	House	Enclosed Porch	Door	Casing	Wood	A	Intact	Negative
2227	1:18:30 PM	Lead Paint	0.1	mg/cm2	528-2	House	Enclosed Porch	Window	Sill	Wood	A	Intact	Negative
2228	1:19:14 PM	Lead Paint	0.1	mg/cm2	528-2	House	Enclosed Porch	Room	Ceiling	Drywall	A	Intact	Negative
2229	1:20:59 PM	Lead Paint	0.1	mg/cm2	528-2	House	Bathroom 1	Room	Wall	Plaster	A	Intact	Negative
2230	1:21:19 PM	Lead Paint	0.3	mg/cm2	528-2	House	Bathroom 1	Room	Wall	Plaster	B	Intact	Negative
2231	1:21:37 PM	Lead Paint	0.3	mg/cm2	528-2	House	Bathroom 1	Room	Wall	Plaster	C	Intact	Negative
2232	1:21:57 PM	Lead Paint	0.3	mg/cm2	528-2	House	Bathroom 1	Room	Wall	Plaster	D	Intact	Negative
2233	1:22:20 PM	Lead Paint	0.2	mg/cm2	528-2	House	Bathroom 1	Room	Ceiling	Plaster	D	Intact	Negative
2234	1:23:26 PM	Lead Paint	0	mg/cm2	528-2	House	Bathroom 1	Radiator	Baseboard	Metal	D	Intact	Negative
2235	1:24:16 PM	Lead Paint	0.1	mg/cm2	528-2	House	Bathroom 2	Room	Ceiling	Plaster	D	Intact	Negative
2236	1:24:37 PM	Lead Paint	0.3	mg/cm2	528-2	House	Bathroom 2	Room	Wall	Plaster	A	Intact	Negative
2237	1:24:57 PM	Lead Paint	0.3	mg/cm2	528-2	House	Bathroom 2	Room	Wall	Plaster	B	Intact	Negative
2238	1:25:17 PM	Lead Paint	0.3	mg/cm2	528-2	House	Bathroom 2	Room	Wall	Plaster	C	Intact	Negative
2239	1:25:36 PM	Lead Paint	0.3	mg/cm2	528-2	House	Bathroom 2	Room	Wall	Plaster	D	Intact	Negative
2240	1:26:46 PM	Lead Paint	0.2	mg/cm2	528-2	House	Laundry room	Room	Wall	Plaster	A	Intact	Negative
2241	1:27:11 PM	Lead Paint	0.1	mg/cm2	528-2	House	Laundry room	Room	Wall	Plaster	B	Intact	Negative
2242	1:27:33 PM	Lead Paint	0.2	mg/cm2	528-2	House	Laundry room	Room	Wall	Plaster	C	Intact	Negative
2243	1:27:54 PM	Lead Paint	0.1	mg/cm2	528-2	House	Laundry room	Room	Wall	Plaster	D	Intact	Negative
2244	1:28:35 PM	Lead Paint	0.2	mg/cm2	528-2	House	Laundry room	Room	Ceiling	Plaster	D	Intact	Negative
2245	1:29:49 PM	Lead Paint	0.3	mg/cm2	528-2	House	Living Room / Kitchen	Room	Ceiling	Plaster	D	Intact	Negative
2246	1:30:36 PM	Lead Paint	0.2	mg/cm2	528-2	House	Living Room / Kitchen	Room	Wall	Plaster	A	Intact	Negative
2247	1:31:01 PM	Lead Paint	0.2	mg/cm2	528-2	House	Living Room / Kitchen	Room	Wall	Plaster	B	Intact	Negative
2248	1:31:24 PM	Lead Paint	0.3	mg/cm2	528-2	House	Living Room / Kitchen	Room	Wall	Plaster	C	Intact	Negative
2249	1:31:41 PM	Lead Paint	0.3	mg/cm2	528-2	House	Living Room / Kitchen	Room	Wall	Plaster	D	Intact	Negative
2250	1:33:02 PM	Lead Paint	0.3	mg/cm2	528-2	House	Living Room / Kitchen	Closet	Wall	Plaster		Intact	Negative
2251	1:33:34 PM	Lead Paint	0.1	mg/cm2	528-2	House	Living Room / Kitchen	Door	---	Metal		Intact	Negative
2252	1:52:39 PM	Lead Paint	0.1	mg/cm2	528-1	House	Bedroom 1	Room	Wall	Plaster	A	Intact	Negative
2253	1:53:09 PM	Lead Paint	0.3	mg/cm2	528-1	House	Bedroom 1	Room	Wall	Plaster	B	Intact	Negative
2254	1:53:33 PM	Lead Paint	0.3	mg/cm2	528-1	House	Bedroom 1	Room	Wall	Plaster	C	Intact	Negative
2255	1:54:01 PM	Lead Paint	0.2	mg/cm2	528-1	House	Bedroom 1	Room	Wall	Plaster	D	Intact	Negative
2256	1:54:27 PM	Lead Paint	0.1	mg/cm2	528-1	House	Bedroom 1	Room	Ceiling	Plaster	D	Intact	Negative
2257	1:54:55 PM	Lead Paint	0.1	mg/cm2	528-1	House	Bedroom 1	Room	Baseboard	Wood	D	Intact	Negative
2258	1:55:28 PM	Lead Paint	0.1	mg/cm2	528-1	House	Bedroom 1	Radiator	Baseboard	Metal	D	Intact	Negative
2259	1:56:02 PM	Lead Paint	0.3	mg/cm2	528-1	House	Bedroom 1	Closet	Wall	Plaster	D	Intact	Negative
2260	1:56:21 PM	Lead Paint	0.1	mg/cm2	528-1	House	Bedroom 1	Closet	Casing	Wood	D	Intact	Negative
2261	1:56:42 PM	Lead Paint	0	mg/cm2	528-1	House	Bedroom 1	Door	Casing	Wood	D	Intact	Negative
2262	1:58:00 PM	Lead Paint	0	mg/cm2	528-1	House	Bedroom 2	Door	Casing	Wood	D	Intact	Negative
2263	1:58:27 PM	Lead Paint	0.2	mg/cm2	528-1	House	Bedroom 2	Room	Wall	Plaster	A	Intact	Negative

No.	Time	Type	Value	Units	Apartment	Room	Room Choice	Structure	Member	Substrate	Wall	Condition	Result
2264	1:58:55 PM	Lead Paint	0.4	mg/cm2	528-1	House	Bedroom 2	Room	Wall	Plaster	B	Intact	Negative
2265	1:59:21 PM	Lead Paint	0.2	mg/cm2	528-1	House	Bedroom 2	Room	Wall	Plaster	C	Intact	Negative
2266	1:59:45 PM	Lead Paint	0.1	mg/cm2	528-1	House	Bedroom 2	Room	Wall	Plaster	D	Intact	Negative
2267	2:00:04 PM	Lead Paint	0.2	mg/cm2	528-1	House	Bedroom 2	Room	Baseboard	Wood	D	Intact	Negative
2268	2:00:33 PM	Lead Paint	0.2	mg/cm2	528-1	House	Bedroom 2	Room	Ceiling	Plaster	D	Intact	Negative
2269	2:01:02 PM	Lead Paint	0.2	mg/cm2	528-1	House	Bedroom 2	Closet	Wall	Plaster	D	Intact	Negative
2270	2:06:10 PM	Lead Paint	0.3	mg/cm2	528-1	House	Bedroom 3	Closet	Wall	Plaster	D	Intact	Negative
2271	2:06:40 PM	Lead Paint	0.1	mg/cm2	528-1	House	Bedroom 3	Door	Casing	Wood	D	Intact	Negative
2272	2:07:07 PM	Lead Paint	0.2	mg/cm2	528-1	House	Bedroom 3	Room	Wall	Plaster	A	Intact	Negative
2273	2:07:28 PM	Lead Paint	0.2	mg/cm2	528-1	House	Bedroom 3	Room	Wall	Plaster	B	Intact	Negative
2274	2:07:48 PM	Lead Paint	0.2	mg/cm2	528-1	House	Bedroom 3	Room	Wall	Plaster	C	Intact	Negative
2275	2:08:15 PM	Lead Paint	0.2	mg/cm2	528-1	House	Bedroom 3	Room	Wall	Plaster	D	Intact	Negative
2276	2:09:14 PM	Lead Paint	0.1	mg/cm2	528-1	House	Bathroom 1	Door	Casing	Wood	D	Intact	Negative
2277	2:09:39 PM	Lead Paint	0.3	mg/cm2	528-1	House	Bathroom 1	Room	Wall	Plaster	A	Intact	Negative
2278	2:09:59 PM	Lead Paint	0.4	mg/cm2	528-1	House	Bathroom 1	Room	Wall	Plaster	B	Intact	Negative
2279	2:10:17 PM	Lead Paint	0.3	mg/cm2	528-1	House	Bathroom 1	Room	Wall	Plaster	C	Intact	Negative
2280	2:10:37 PM	Lead Paint	0.1	mg/cm2	528-1	House	Bathroom 1	Room	Wall	Plaster	D	Intact	Negative
2281	2:11:16 PM	Lead Paint	0.2	mg/cm2	528-1	House	Bathroom 1	Room	Ceiling	Plaster	D	Intact	Negative
2282	2:12:13 PM	Lead Paint	0.1	mg/cm2	528-1	House	Bathroom 2	Room	Ceiling	Plaster	D	Intact	Negative
2283	2:12:36 PM	Lead Paint	0.3	mg/cm2	528-1	House	Bathroom 2	Room	Wall	Plaster	A	Intact	Negative
2284	2:12:55 PM	Lead Paint	0.2	mg/cm2	528-1	House	Bathroom 2	Room	Wall	Plaster	B	Intact	Negative
2285	2:13:20 PM	Lead Paint	0.3	mg/cm2	528-1	House	Bathroom 2	Room	Wall	Plaster	C	Intact	Negative
2286	2:13:38 PM	Lead Paint	0.2	mg/cm2	528-1	House	Bathroom 2	Room	Wall	Plaster	D	Intact	Negative
2287	2:14:06 PM	Lead Paint	0	mg/cm2	528-1	House	Bathroom 2	Door	Casing	Wood	D	Intact	Negative
2288	2:15:26 PM	Lead Paint	0	mg/cm2	528-1	House	Laundry Room	Door	Casing	Wood	D	Intact	Negative
2289	2:15:54 PM	Lead Paint	0.2	mg/cm2	528-1	House	Laundry Room	Room	Wall	Plaster	A	Intact	Negative
2290	2:16:14 PM	Lead Paint	0.3	mg/cm2	528-1	House	Laundry Room	Room	Wall	Plaster	B	Intact	Negative
2291	2:16:33 PM	Lead Paint	0.1	mg/cm2	528-1	House	Laundry Room	Room	Wall	Plaster	C	Intact	Negative
2292	2:16:59 PM	Lead Paint	0.1	mg/cm2	528-1	House	Laundry Room	Room	Wall	Plaster	D	Intact	Negative
2293	2:17:26 PM	Lead Paint	0.1	mg/cm2	528-1	House	Laundry Room	Room	Ceiling	Plaster	D	Intact	Negative
2294	2:18:40 PM	Lead Paint	0.1	mg/cm2	528-1	House	Kitchen	Room	Ceiling	Plaster	D	Intact	Negative
2295	2:19:01 PM	Lead Paint	0	mg/cm2	528-1	House	Kitchen	Room	Baseboard	Wood	D	Intact	Negative
2296	2:19:34 PM	Lead Paint	0.2	mg/cm2	528-1	House	Kitchen	Room	Wall	Plaster	A	Intact	Negative
2297	2:19:54 PM	Lead Paint	0.2	mg/cm2	528-1	House	Kitchen	Room	Wall	Plaster	B	Intact	Negative
2298	2:20:15 PM	Lead Paint	0.2	mg/cm2	528-1	House	Kitchen	Room	Wall	Plaster	C	Intact	Negative
2299	2:20:34 PM	Lead Paint	0.2	mg/cm2	528-1	House	Kitchen	Room	Wall	Plaster	D	Intact	Negative
2300	2:21:04 PM	Lead Paint	0	mg/cm2	528-1	House	Kitchen	Door	Casing	Wood	A	Intact	Negative
2301	2:22:16 PM	Lead Paint	0	mg/cm2	528-1	House	Living Room/Dining Room	Room	Baseboard	Wood	A	Intact	Negative
2302	2:23:01 PM	Lead Paint	0.2	mg/cm2	528-1	House	Living Room/Dining Room	Room	Ceiling	Plaster	A	Intact	Negative
2303	2:23:40 PM	Lead Paint	0.3	mg/cm2	528-1	House	Living Room/Dining Room	Room	Wall	Plaster	A	Intact	Negative
2304	2:24:05 PM	Lead Paint	0.4	mg/cm2	528-1	House	Living Room/Dining Room	Room	Wall	Plaster	B	Intact	Negative
2305	2:24:29 PM	Lead Paint	0.3	mg/cm2	528-1	House	Living Room/Dining Room	Room	Wall	Plaster	C	Intact	Negative
2306	2:24:50 PM	Lead Paint	0.2	mg/cm2	528-1	House	Living Room/Dining Room	Room	Wall	Plaster	D	Intact	Negative
2307	2:25:27 PM	Lead Paint	0.3	mg/cm2	528-1	House	Living Room/Dining Room	Closet	Wall	Plaster	D	Intact	Negative
2308	2:26:11 PM	Lead Paint	0	mg/cm2	528-1	House	Living Room/Dining Room	Radiator	Baseboard	Metal	A	Intact	Negative
2309	2:26:51 PM	Lead Paint	0.1	mg/cm2	528-1	House	Living Room/Dining Room	Staircase	Railing	Metal	B	Intact	Negative
2310	2:44:24 PM	Lead Paint	0.1	mg/cm2	528	Exterior	Exterior	Room	Wall	Metal	A	Intact	Negative
2311	2:44:42 PM	Lead Paint	0.3	mg/cm2	528	Exterior	Exterior	Window	Frame	Metal	A	Intact	Negative
2312	2:45:16 PM	Lead Paint	0.3	mg/cm2	528	Exterior	Exterior	Window	Frame	Metal	B	Intact	Negative
2313	2:45:41 PM	Lead Paint	0.2	mg/cm2	528	Exterior	Exterior	Room	Wall	Metal	B	Intact	Negative
2314	2:46:12 PM	Lead Paint	0.1	mg/cm2	528	Exterior	Exterior	Door	---	Metal	B	Intact	Negative
2315	2:46:34 PM	Lead Paint	0.1	mg/cm2	528	Exterior	Exterior	Door	Rollup Door	Metal	B	Intact	Negative
2316	2:47:13 PM	Lead Paint	0.1	mg/cm2	528	Exterior	Exterior	Soffit	---	Wood	B	Intact	Negative
2317	2:47:59 PM	Lead Paint	0.1	mg/cm2	528	Exterior	Exterior	Wall	---	Wood	C	Intact	Negative
2318	2:48:21 PM	Lead Paint	0	mg/cm2	528	Exterior	Exterior	Window	Frame	Wood	C	Intact	Negative
2319	2:49:16 PM	Lead Paint	0	mg/cm2	528	Exterior	Exterior	Door	Rollup Door	Wood	D	Intact	Negative
2320	2:49:51 PM	Lead Paint	0.3	mg/cm2	528	Exterior	Exterior	Door	---	Wood	D	Intact	Negative
2321	2:50:17 PM	Lead Paint	0.1	mg/cm2	528	Exterior	Exterior	Wall	---	Wood	D	Intact	Negative
2336	3:00:01 PM	Lead Paint	1.1	mg/cm2		Calibration							
2337	3:00:25 PM	Lead Paint	1.1	mg/cm2		Calibration							
2338	3:00:51 PM	Lead Paint	1.1	mg/cm2		Calibration							

**Appendix D**  
**Building Condition Forms**

ASTI Project No.:12703

528 Virginia Avenue



# ASTI Environmental Building Condition Form

Property Address: 528 Virginia Avenue

Name of Property Owner Ann Arbor Housing Development Corp

Name of Assessor: Lathan Saperstein

License Number: P-08947

Date of Assessment: 3/7/2023

Condition	Yes	No
Roof missing parts of surfaces (tiles, boards, shakes, etc.)		X
Roof has holes or large cracks		X
Gutters or downspouts broken		X
Chimney masonry cracked, bricks loose or missing, obviously out of plumb		X
Exterior or interior walls have obvious large cracks or holes, requiring more than routine pointing (if masonry) 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 "very small" amount of paint in 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, structure leans, or visibly unsound		X
Total number*	0	12

\*The "very small" amount is the de minimis amount under the HUD Lead Safe Housing Rule (24 CFR 35. 1350(d)), or the amount of paint that is not "paint in poor condition" under the EPA lead training and certification ("402") rule (40 CFR 745.223).

\*\*If the "Yes" column has two or more checks, the dwelling is usually considered to be in poor condition for the purposes of a risk assessment. However, (1) not all conditions listed above are equally important/significant, and (2) specific conditions and extenuating circumstances should be considered before determining the final condition of the dwelling and the appropriateness of a lead hazard screen.

**Notes:**

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\*\*Disclaimer: The evaluation herein is the assessment of a licensed Lead-based Paint Inspector/Risk Assessor only; it does not represent the expertise of an architect or a structural engineer. The user of this report cannot not rely upon this evaluation as definitive with respect to structural integrity, or the condition of hidden areas/materials such as crawl spaces and insulation.

**Appendix E**  
**Risk Assessment Questionnaire**

ASTI Project No.:12703

528 Virginia Avenue





**Appendix F**  
**Lead Laboratory Test Results**

ASTI Project No.:12703

528 Virginia Avenue



## ANALYTICAL LABORATORY REPORT

Wednesday, April 5, 2023

Page 1 of 5

**CUSTOMER:** ASTI Environmental  
10448 Citation Dr.  
Brighton, MI 48116

**DATE RECEIVED:** Friday, March 10, 2023  
**PO/PROJECT #:** 12703  
**SUBMITTAL #:** 2023-03-10-008.1 REVISED

### LAB NUMBER: AD29514

**Sampled By:** Lathan Saperstein  
**Job Location:** 528-1  
**Sample Identification:** FL-01 : BEDROOM 1

**Date Sampled:** 03/07/2023  
**Sample Description:** Dust Wipe

**Preparation Method:** EPA 3050B-M-W (Acid Digestion for Surface Wipe Samples)  
**Analysis Method:** EPA 6010D-M (ICP-AES Method for Determination of Metals)  
**Date Analyzed:** Wednesday, March 15, 2023

\***Sample Area:** 1.0 sq ft

ELEMENT	ANALYTE CONCENTRATION	ANALYTE REPORTING LIMIT (RL)	*AREA CONCENTRATION	*CALCULATED REPORTING LIMIT (RL)
Lead	- < RL	2.5 ug	- < RL	2.5 ug/ft <sup>2</sup>

\*Based on sampling information supplied by the client.

### LAB NUMBER: AD29515

**Sampled By:** Lathan Saperstein  
**Job Location:** 528-1  
**Sample Identification:** FL-02 : BEDROOM 2

**Date Sampled:** 03/07/2023  
**Sample Description:** Dust Wipe

**Preparation Method:** EPA 3050B-M-W (Acid Digestion for Surface Wipe Samples)  
**Analysis Method:** EPA 6010D-M (ICP-AES Method for Determination of Metals)  
**Date Analyzed:** Wednesday, March 15, 2023

\***Sample Area:** 1.0 sq ft

ELEMENT	ANALYTE CONCENTRATION	ANALYTE REPORTING LIMIT (RL)	*AREA CONCENTRATION	*CALCULATED REPORTING LIMIT (RL)
Lead	- < RL	2.5 ug	- < RL	2.5 ug/ft <sup>2</sup>

\*Based on sampling information supplied by the client.

### LAB NUMBER: AD29516

**Sampled By:** Lathan Saperstein  
**Job Location:** 528-1  
**Sample Identification:** FL-03 : BEDROOM 3

**Date Sampled:** 03/07/2023  
**Sample Description:** Dust Wipe

**Preparation Method:** EPA 3050B-M-W (Acid Digestion for Surface Wipe Samples)  
**Analysis Method:** EPA 6010D-M (ICP-AES Method for Determination of Metals)  
**Date Analyzed:** Wednesday, March 15, 2023

\***Sample Area:** 1.0 sq ft

ELEMENT	ANALYTE CONCENTRATION	ANALYTE REPORTING LIMIT (RL)	*AREA CONCENTRATION	*CALCULATED REPORTING LIMIT (RL)
Lead	- < RL	2.5 ug	- < RL	2.5 ug/ft <sup>2</sup>

\*Based on sampling information supplied by the client.

GPI Laboratories, Inc. has obtained accreditation under the programs detailed on the final page of the laboratory report. The accreditations pertain only to the testing performed for the elements, and in accordance with the test methods, listed in the scope of accreditation table. Testing which is performed by GPI Laboratories, Inc. according to other test methods, or for elements which are not included in the table fall outside of the current accreditation. This report shall not be reproduced except in full, without written approval of GPI Laboratories, Inc..

## ANALYTICAL LABORATORY REPORT

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**CUSTOMER:** ASTI Environmental  
10448 Citation Dr.  
Brighton, MI 48116

**DATE RECEIVED:** Friday, March 10, 2023  
**PO/PROJECT #:** 12703  
**SUBMITTAL #:** 2023-03-10-008.1 REVISED

### LAB NUMBER: AD29517

**Sampled By:** Lathan Saperstein  
**Job Location:** 528-1  
**Sample Identification:** FL-04 : KITCHEN

**Date Sampled:** 03/07/2023  
**Sample Description:** Dust Wipe

**Preparation Method:** EPA 3050B-M-W (Acid Digestion for Surface Wipe Samples)  
**Analysis Method:** EPA 6010D-M (ICP-AES Method for Determination of Metals)  
**Date Analyzed:** Wednesday, March 15, 2023

\***Sample Area:** 1.0 sq ft

ELEMENT	ANALYTE CONCENTRATION	ANALYTE REPORTING LIMIT (RL)	*AREA CONCENTRATION	*CALCULATED REPORTING LIMIT (RL)
Lead	- < RL	2.5 ug	- < RL	2.5 ug/ft <sup>2</sup>

\*Based on sampling information supplied by the client.

### LAB NUMBER: AD29518

**Sampled By:** Lathan Saperstein  
**Job Location:** 528-1  
**Sample Identification:** FL-05 : LIVINGROOM

**Date Sampled:** 03/07/2023  
**Sample Description:** Dust Wipe

**Preparation Method:** EPA 3050B-M-W (Acid Digestion for Surface Wipe Samples)  
**Analysis Method:** EPA 6010D-M (ICP-AES Method for Determination of Metals)  
**Date Analyzed:** Wednesday, March 15, 2023

\***Sample Area:** 1.0 sq ft

ELEMENT	ANALYTE CONCENTRATION	ANALYTE REPORTING LIMIT (RL)	*AREA CONCENTRATION	*CALCULATED REPORTING LIMIT (RL)
Lead	- < RL	2.5 ug	- < RL	2.5 ug/ft <sup>2</sup>

\*Based on sampling information supplied by the client.

### LAB NUMBER: AD29519

**Sampled By:** Lathan Saperstein  
**Job Location:** 528-1  
**Sample Identification:** FL-06 : BATHROOM

**Date Sampled:** 03/07/2023  
**Sample Description:** Dust Wipe

**Preparation Method:** EPA 3050B-M-W (Acid Digestion for Surface Wipe Samples)  
**Analysis Method:** EPA 6010D-M (ICP-AES Method for Determination of Metals)  
**Date Analyzed:** Wednesday, March 15, 2023

\***Sample Area:** 1.0 sq ft

ELEMENT	ANALYTE CONCENTRATION	ANALYTE REPORTING LIMIT (RL)	*AREA CONCENTRATION	*CALCULATED REPORTING LIMIT (RL)
Lead	- < RL	2.5 ug	- < RL	2.5 ug/ft <sup>2</sup>

\*Based on sampling information supplied by the client.

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**CUSTOMER:** ASTI Environmental  
10448 Citation Dr.  
Brighton, MI 48116

**DATE RECEIVED:** Friday, March 10, 2023  
**PO/PROJECT #:** 12703  
**SUBMITTAL #:** 2023-03-10-008.1 REVISED

### LAB NUMBER: AD29520

**Sampled By:** Lathan Saperstein  
**Job Location:** 528-1  
**Sample Identification:** WS-01 : BEDROOM 1

**Date Sampled:** 03/07/2023  
**Sample Description:** Dust Wipe

**Preparation Method:** EPA 3050B-M-W (Acid Digestion for Surface Wipe Samples)  
**Analysis Method:** EPA 6010D-M (ICP-AES Method for Determination of Metals)  
**Date Analyzed:** Monday, March 20, 2023

\*Sample Area: 0.944 sq ft

ELEMENT	ANALYTE CONCENTRATION	ANALYTE REPORTING LIMIT (RL)	*AREA CONCENTRATION	*CALCULATED REPORTING LIMIT (RL)
Lead	- < RL	2.5 ug	- < RL	2.6 ug/ft <sup>2</sup>

\*Based on sampling information supplied by the client.

### LAB NUMBER: AD29521

**Sampled By:** Lathan Saperstein  
**Job Location:** 528-1  
**Sample Identification:** WS-02 : BEDROOM 2

**Date Sampled:** 03/07/2023  
**Sample Description:** Dust Wipe

**Preparation Method:** EPA 3050B-M-W (Acid Digestion for Surface Wipe Samples)  
**Analysis Method:** EPA 6010D-M (ICP-AES Method for Determination of Metals)  
**Date Analyzed:** Monday, March 20, 2023

\*Sample Area: 0.375 sq ft

ELEMENT	ANALYTE CONCENTRATION	ANALYTE REPORTING LIMIT (RL)	*AREA CONCENTRATION	*CALCULATED REPORTING LIMIT (RL)
Lead	- < RL	2.5 ug	- < RL	6.7 ug/ft <sup>2</sup>

\*Based on sampling information supplied by the client.

### LAB NUMBER: AD29522

**Sampled By:** Lathan Saperstein  
**Job Location:** 528-1  
**Sample Identification:** WS-03 : BEDROOM 3

**Date Sampled:** 03/07/2023  
**Sample Description:** Dust Wipe

**Preparation Method:** EPA 3050B-M-W (Acid Digestion for Surface Wipe Samples)  
**Analysis Method:** EPA 6010D-M (ICP-AES Method for Determination of Metals)  
**Date Analyzed:** Monday, March 20, 2023

\*Sample Area: 0.75 sq ft

ELEMENT	ANALYTE CONCENTRATION	ANALYTE REPORTING LIMIT (RL)	*AREA CONCENTRATION	*CALCULATED REPORTING LIMIT (RL)
Lead	- < RL	2.5 ug	- < RL	3.3 ug/ft <sup>2</sup>

\*Based on sampling information supplied by the client.

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**CUSTOMER:** ASTI Environmental  
10448 Citation Dr.  
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**DATE RECEIVED:** Friday, March 10, 2023  
**PO/PROJECT #:** 12703  
**SUBMITTAL #:** 2023-03-10-008.1 REVISED

### LAB NUMBER: AD29523

**Sampled By:** Lathan Saperstein

**Date Sampled:** 03/07/2023

**Job Location:** 528-1

**Sample Description:** Dust Wipe

**Sample Identification:** WS-04 : KITCHEN

**Preparation Method:** EPA 3050B-M-W (Acid Digestion for Surface Wipe Samples)

**Analysis Method:** EPA 6010D-M (ICP-AES Method for Determination of Metals)

**Date Analyzed:** Monday, March 20, 2023

\***Sample Area:** 0.281 sq ft

ELEMENT	ANALYTE CONCENTRATION	ANALYTE REPORTING LIMIT (RL)	*AREA CONCENTRATION	*CALCULATED REPORTING LIMIT (RL)
Lead	- < RL	2.5 ug	- < RL	8.9 ug/ft <sup>2</sup>

\*Based on sampling information supplied by the client.

### LAB NUMBER: AD29524

**Sampled By:** Lathan Saperstein

**Date Sampled:** 03/07/2023

**Job Location:** 528-1

**Sample Description:** Dust Wipe

**Sample Identification:** WS-05 : LIVINGROOM

**Preparation Method:** EPA 3050B-M-W (Acid Digestion for Surface Wipe Samples)

**Analysis Method:** EPA 6010D-M (ICP-AES Method for Determination of Metals)

**Date Analyzed:** Monday, March 20, 2023

\***Sample Area:** 0.316 sq ft

ELEMENT	ANALYTE CONCENTRATION	ANALYTE REPORTING LIMIT (RL)	*AREA CONCENTRATION	*CALCULATED REPORTING LIMIT (RL)
Lead	- < RL	2.5 ug	- < RL	7.9 ug/ft <sup>2</sup>

\*Based on sampling information supplied by the client.

Revised Report: This revised report replaces 2023-03-10-008 dated 3/21/23. At the clients request a report was generated for each chain of custody.

GPI Laboratories, Inc. has obtained accreditation under the programs detailed on the final page of the laboratory report. The accreditations pertain only to the testing performed for the elements, and in accordance with the test methods, listed in the scope of accreditation table. Testing which is performed by GPI Laboratories, Inc. according to other test methods, or for elements which are not included in the table fall outside of the current This report shall not be reproduced except in full, without written approval of GPI Laboratories, Inc..

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**CUSTOMER:** ASTI Environmental  
10448 Citation Dr.  
Brighton, MI 48116

**DATE RECEIVED:** Friday, March 10, 2023  
**PO/PROJECT #:** 12703  
**SUBMITTAL #:** 2023-03-10-008.1 REVISED

Unless otherwise noted, the condition of each sample was acceptable upon receipt, all laboratory quality control requirements were met, and sample results have not been adjusted based on field blank or other analytical blank results. Individual sample results relate only to the sample as received by the laboratory.

**Tests Reviewed By:** David Johnson, Project Manager

Reporting Limit (RL): The lowest concentration of analyte in a sample that can be reported with a defined, reproducible level of certainty. This value is based on the lowest standard used for instrument calibration and must be at least twice the MDL.

GPI Laboratories, Inc. has obtained accreditation under the following programs:

- **National Lead Laboratory Accreditation Program (NLLAP)**  
**A2LA:** American Association for Laboratory Accreditation (Certificate 5033.01) ([www.a2la.org](http://www.a2la.org))
- **OH:** Ohio Department of Health Lead Poisoning Prevention Program, Approval #E10013 ([www.odh.ohio.gov](http://www.odh.ohio.gov))
- **National Environmental Laboratory Accreditation Program (NELAP)**  
**NY:** State of New York Department of Health, Laboratory ID#11609 (Serial # 64722-64726) (518-485-5570)  
**LA:** State of Louisiana Department of Environmental Quality, Laboratory ID#180321 (Certificate 05036) ([www.deq.louisiana.gov](http://www.deq.louisiana.gov))  
**OK:** Oklahoma Department of Environmental Quality, Laboratory ID#9993 (Certificate 2020-074) ([www.deq.state.ok.us](http://www.deq.state.ok.us))

Testing which is performed by GPI Laboratories, Inc. according to test methods, or for elements which are not included in the table below fall outside of the current scope of laboratory accreditation. Customers are encouraged to verify the current accreditation status with the individual accreditation programs by calling or visiting the appropriate website for the applicable program.

### SCOPE OF ACCREDITATION

#### Air and Emissions

<u>Element/Test</u>	<u>Method</u>	<u>Accreditation(s)</u>
Suspended Particulates: PM10 / TSP	40 CFR 50 Appendix J / 40 CFR 50 Appendix B	NY, LA
Lead in Airborne Dust	40 CFR 50 Appendix G	A2LA, LA
Lead in Airborne Dust	NIOSH 7300	A2LA, OH, NY, LA
Metals in Airborne Dust	NIOSH 7300	A2LA

#### Solid Chemical Materials

<u>Element/Test</u>	<u>Method</u>	<u>Accreditation(s)</u>
TCLP	EPA 1311(Sample Preparation Method)	NY, LA, OK
Lead in Soil	EPA 3050B/ EPA 6010D	A2LA, OH, NY, LA, OK
Lead in Paint	EPA 3050B/ EPA 6010D	A2LA, OH, NY, LA
Lead in Paint	ASTM D 3335-85A/ EPA 6010D	NY
Lead in Dust Wipes	EPA 3050B/ EPA 6010D	A2LA, OH, NY, LA
Ignitability	EPA 1010A	NY
pH	EPA 9045D	NY

#### Non-Potable Water / Analysis by ICP

<u>Element/Test</u>	<u>Method</u>	<u>Accreditation(s)</u>
Arsenic	EPA 6010D/ EPA 200.7 Rev 4.4	NY, LA, OK
Barium	EPA 6010D/ EPA 200.7 Rev 4.4	NY, LA, OK
Cadmium	EPA 6010D/ EPA 200.7 Rev 4.4	NY, LA, OK
Chromium	EPA 6010D/ EPA 200.7 Rev 4.4	NY, LA, OK
Copper	EPA 6010D/ EPA 200.7 Rev 4.4	NY, LA, OK
Lead	EPA 6010D/ EPA 200.7 Rev 4.4	NY, LA, OK
Mercury	EPA 245.1 Rev.3/ EPA 7470A	NY, LA, OK
Nickel	EPA 6010D/ EPA 200.7 Rev 4.4	NY, LA, OK
Selenium	EPA 6010D/ EPA 200.7 Rev 4.4	NY, LA, OK
Silver	EPA 6010D/ EPA 200.7 Rev 4.4	NY, LA, OK
Zinc	EPA 6010D/ EPA 200.7 Rev 4.4	NY, LA, OK
Cobalt	----	----
Manganese	----	----
Acid Digestion	EPA 3010A	NY, LA

#### Solid Chemical Materials

<u>Method</u>	<u>Accreditation(s)</u>
EPA 6010D	NY, LA, OK
EPA 7471B	NY, LA, OK
EPA 6010D	NY, LA, OK
EPA 3050B	NY, LA

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# CHAIN OF CUSTODY FORM



Send To:  
**GPI Laboratories, Inc.**  
 4403 Donker Court, Grand Rapids MI 49512-4054  
 (616) 940-3112 | GRLabInfo@gpinet.com | www.gpinet.com

FOR LAB USE ONLY		
Properly Contained	YES	NO N/A
Adequate Quantity	YES	NO N/A
Received on Ice	YES	NO <u>N/A</u>
Temp: C/F (Therm #13/ )	pH: <u>7.5</u>	

Company: <b>ASTI Environmental</b>	Address: <b>10448 Citation Dr, Brighton, MI 48116</b>	Company Contact: <b>Lathan Saperstein / Dave Amir</b>	P.O./Proj #: <b>12703</b>
		Telephone: <b>(810) 599-6701 / (810) 225-2800</b>	Location: <b>528-1</b>
		E-Mail: <b>Lsaperstein@asti-env.com / DAMir@Asti-env.com</b>	

Matrix	TCLP (Waste)	Metals Content	Other Tests	Turnaround Time	Comments:
<input type="checkbox"/> Paint Chips <input type="checkbox"/> Soil <input type="checkbox"/> Abrasive <input type="checkbox"/> Wastewater	<input checked="" type="checkbox"/> Wipe <input type="checkbox"/> Filter	<input type="checkbox"/> Lead <input type="checkbox"/> RCRA (8) Metals <input type="checkbox"/> 5	<input checked="" type="checkbox"/> Lead <input type="checkbox"/> Lead, Cad., Chrome. <input type="checkbox"/> RCRA (8) Metals	<input type="checkbox"/> pH (Corrosivity) <input type="checkbox"/> Ignitability <input type="checkbox"/> VOC (Method 24, etc)	

GPI Labs accepts Visa, MasterCard, and American Express. \*Accelerated Turnaround is not available for every test. Please call for information.

Laboratory ID	Sample Number	Date/Time Sampled	Sample Identification / Location:	Special Instructions:	Area wiped (sq.ft.)	Air Sampling Filters		
						Minutes	Flow Rate	UNITS
<u>A029514</u>	FL-01	03/07/23	BEDROOM 1		1			
<u>A029515</u>	FL-02	03/07/23	BEDROOM 2		1			
<u>A029516</u>	FL-03	03/07/23	BEDROOM 3		1			
<u>A029517</u>	FL-04	03/07/23	KITCHEN		1			
<u>A029519</u>	FL-05	03/07/23	LIVING ROOM		1			
<u>A029519</u>	FL-06	03/07/23	BATHROOM 2		1			
<u>A029520</u>	WS-01	03/07/23	BEDROOM 1	4.25*32	0.944			
<u>A029521</u>	WS-02	03/07/23	BEDROOM 2	4.5*12	0.375			
<u>A029522</u>	WS-03	03/07/23	BEDROOM 3	6.75*16	0.75			
<u>A029523</u>	WS-04	03/07/23	KITCHEN	6*6.75	.281			
<u>A029524</u>	WS-05	03/07/23	LIVING ROOM	6.75*6.75	0.316			

Sampled By (Please print) : Lathan Saperstein Date Submitted: 03/07/2023 Signature:

Received by: \_\_\_\_\_ Date/Time: \_\_\_\_\_ Relinquished Date/Time: \_\_\_\_\_

Received by: \_\_\_\_\_ Date/Time: \_\_\_\_\_ Relinquished Date/Time: \_\_\_\_\_

Method of Shipment: \_\_\_\_\_

Received for Laboratory by: Date/Time: 3-09-23 12:30 Submittal #: 2023-03-10-009 10/16/18Form#: 53-14

JTG  
3/13/23

## ANALYTICAL LABORATORY REPORT

Wednesday, April 5, 2023

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**CUSTOMER:** ASTI Environmental  
10448 Citation Dr.  
Brighton, MI 48116

**DATE RECEIVED:** Friday, March 10, 2023  
**PO/PROJECT #:** 12703  
**SUBMITTAL #:** 2023-03-10-050.1 REVISED

### LAB NUMBER: AD29525

**Sampled By:** Lathan Saperstein

**Date Sampled:** 03/07/2023

**Job Location:** 528-2

**Sample Description:** Dust Wipe

**Sample Identification:** FL-01 : BEDROOM 1 KIDS ROOM

**Preparation Method:** EPA 3050B-M-W (Acid Digestion for Surface Wipe Samples)

**Analysis Method:** EPA 6010D-M (ICP-AES Method for Determination of Metals)

**Date Analyzed:** Monday, March 20, 2023

**\*Sample Area:** 1.0 sq ft

ELEMENT	ANALYTE CONCENTRATION	ANALYTE REPORTING LIMIT (RL)	*AREA CONCENTRATION	*CALCULATED REPORTING LIMIT (RL)
Lead	- < RL	2.5 ug	- < RL	2.5 ug/ft <sup>2</sup>

\*Based on sampling information supplied by the client.

### LAB NUMBER: AD29526

**Sampled By:** Lathan Saperstein

**Date Sampled:** 03/07/2023

**Job Location:** 528-2

**Sample Description:** Dust Wipe

**Sample Identification:** FL-02 : PORH / PLAY AREA

**Preparation Method:** EPA 3050B-M-W (Acid Digestion for Surface Wipe Samples)

**Analysis Method:** EPA 6010D-M (ICP-AES Method for Determination of Metals)

**Date Analyzed:** Monday, March 20, 2023

**\*Sample Area:** 1.0 sq ft

ELEMENT	ANALYTE CONCENTRATION	ANALYTE REPORTING LIMIT (RL)	*AREA CONCENTRATION	*CALCULATED REPORTING LIMIT (RL)
Lead	- < RL	2.5 ug	- < RL	2.5 ug/ft <sup>2</sup>

\*Based on sampling information supplied by the client.

### LAB NUMBER: AD29527

**Sampled By:** Lathan Saperstein

**Date Sampled:** 03/07/2023

**Job Location:** 528-2

**Sample Description:** Dust Wipe

**Sample Identification:** FL-03 : BEDROOM 3

**Preparation Method:** EPA 3050B-M-W (Acid Digestion for Surface Wipe Samples)

**Analysis Method:** EPA 6010D-M (ICP-AES Method for Determination of Metals)

**Date Analyzed:** Monday, March 20, 2023

**\*Sample Area:** 1.0 sq ft

ELEMENT	ANALYTE CONCENTRATION	ANALYTE REPORTING LIMIT (RL)	*AREA CONCENTRATION	*CALCULATED REPORTING LIMIT (RL)
Lead	- < RL	2.5 ug	- < RL	2.5 ug/ft <sup>2</sup>

\*Based on sampling information supplied by the client.

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Brighton, MI 48116

**DATE RECEIVED:** Friday, March 10, 2023  
**PO/PROJECT #:** 12703  
**SUBMITTAL #:** 2023-03-10-050.1 REVISED

### LAB NUMBER: AD29528

**Sampled By:** Lathan Saperstein

**Date Sampled:** 03/07/2023

**Job Location:** 528-2

**Sample Description:** Dust Wipe

**Sample Identification:** FL-04 : BATHROOM 1

**Preparation Method:** EPA 3050B-M-W (Acid Digestion for Surface Wipe Samples)

**Analysis Method:** EPA 6010D-M (ICP-AES Method for Determination of Metals)

**Date Analyzed:** Monday, March 20, 2023

**\*Sample Area:** 1.0 sq ft

ELEMENT	ANALYTE CONCENTRATION	ANALYTE REPORTING LIMIT (RL)	*AREA CONCENTRATION	*CALCULATED REPORTING LIMIT (RL)
Lead	- < RL	2.5 ug	- < RL	2.5 ug/ft <sup>2</sup>

\*Based on sampling information supplied by the client.

### LAB NUMBER: AD29529

**Sampled By:** Lathan Saperstein

**Date Sampled:** 03/07/2023

**Job Location:** 528-2

**Sample Description:** Dust Wipe

**Sample Identification:** FL-05 : KITCHEN

**Preparation Method:** EPA 3050B-M-W (Acid Digestion for Surface Wipe Samples)

**Analysis Method:** EPA 6010D-M (ICP-AES Method for Determination of Metals)

**Date Analyzed:** Monday, March 20, 2023

**\*Sample Area:** 1.0 sq ft

ELEMENT	ANALYTE CONCENTRATION	ANALYTE REPORTING LIMIT (RL)	*AREA CONCENTRATION	*CALCULATED REPORTING LIMIT (RL)
Lead	- < RL	2.5 ug	- < RL	2.5 ug/ft <sup>2</sup>

\*Based on sampling information supplied by the client.

### LAB NUMBER: AD29530

**Sampled By:** Lathan Saperstein

**Date Sampled:** 03/07/2023

**Job Location:** 528-2

**Sample Description:** Dust Wipe

**Sample Identification:** FL-06 : LIVING ROOM

**Preparation Method:** EPA 3050B-M-W (Acid Digestion for Surface Wipe Samples)

**Analysis Method:** EPA 6010D-M (ICP-AES Method for Determination of Metals)

**Date Analyzed:** Monday, March 20, 2023

**\*Sample Area:** 1.0 sq ft

ELEMENT	ANALYTE CONCENTRATION	ANALYTE REPORTING LIMIT (RL)	*AREA CONCENTRATION	*CALCULATED REPORTING LIMIT (RL)
Lead	- < RL	2.5 ug	- < RL	2.5 ug/ft <sup>2</sup>

\*Based on sampling information supplied by the client.

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**DATE RECEIVED:** Friday, March 10, 2023  
**PO/PROJECT #:** 12703  
**SUBMITTAL #:** 2023-03-10-050.1 REVISED

### LAB NUMBER: AD29531

**Sampled By:** Lathan Saperstein  
**Job Location:** 528-2  
**Sample Identification:** WS-01 : BEDROOM 1 KIDS ROOM

**Date Sampled:** 03/07/2023  
**Sample Description:** Dust Wipe

**Preparation Method:** EPA 3050B-M-W (Acid Digestion for Surface Wipe Samples)  
**Analysis Method:** EPA 6010D-M (ICP-AES Method for Determination of Metals)  
**Date Analyzed:** Monday, March 20, 2023

\*Sample Area: 0.411 sq ft

ELEMENT	ANALYTE CONCENTRATION	ANALYTE REPORTING LIMIT (RL)	*AREA CONCENTRATION	*CALCULATED REPORTING LIMIT (RL)
Lead	- < RL	2.5 ug	- < RL	6.1 ug/ft <sup>2</sup>

\*Based on sampling information supplied by the client.

### LAB NUMBER: AD29532

**Sampled By:** Lathan Saperstein  
**Job Location:** 528-2  
**Sample Identification:** WS-02 : PORCH / PLAY AREA

**Date Sampled:** 03/07/2023  
**Sample Description:** Dust Wipe

**Preparation Method:** EPA 3050B-M-W (Acid Digestion for Surface Wipe Samples)  
**Analysis Method:** EPA 6010D-M (ICP-AES Method for Determination of Metals)  
**Date Analyzed:** Monday, March 20, 2023

\*Sample Area: 0.840 sq ft

ELEMENT	ANALYTE CONCENTRATION	ANALYTE REPORTING LIMIT (RL)	*AREA CONCENTRATION	*CALCULATED REPORTING LIMIT (RL)
Lead	6.3 ug	2.5 ug	7.5 ug/ft <sup>2</sup>	3.0 ug/ft <sup>2</sup>

\*Based on sampling information supplied by the client.

### LAB NUMBER: AD29533

**Sampled By:** Lathan Saperstein  
**Job Location:** 528-2  
**Sample Identification:** WS-06 : LIVING ROOM

**Date Sampled:** 03/07/2023  
**Sample Description:** Dust Wipe

**Preparation Method:** EPA 3050B-M-W (Acid Digestion for Surface Wipe Samples)  
**Analysis Method:** EPA 6010D-M (ICP-AES Method for Determination of Metals)  
**Date Analyzed:** Monday, March 20, 2023

\*Sample Area: 0.248 sq ft

ELEMENT	ANALYTE CONCENTRATION	ANALYTE REPORTING LIMIT (RL)	*AREA CONCENTRATION	*CALCULATED REPORTING LIMIT (RL)
Lead	- < RL	2.5 ug	- < RL	10 ug/ft <sup>2</sup>

\*Based on sampling information supplied by the client.

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## ANALYTICAL LABORATORY REPORT

Wednesday, April 5, 2023

Page 4 of 5

**CUSTOMER:** ASTI Environmental  
10448 Citation Dr.  
Brighton, MI 48116

**DATE RECEIVED:** Friday, March 10, 2023  
**PO/PROJECT #:** 12703  
**SUBMITTAL #:** 2023-03-10-050.1 REVISED

**LAB NUMBER: AD29534**

**Sampled By:** Lathan Saperstein

**Date Sampled:** 03/07/2023

**Job Location:** 528-2

**Sample Description:** Dust Wipe

**Sample Identification:** WS-05 : KITCHEN

**Preparation Method:** EPA 3050B-M-W (Acid Digestion for Surface Wipe Samples)

**Analysis Method:** EPA 6010D-M (ICP-AES Method for Determination of Metals)

**Date Analyzed:** Monday, March 20, 2023

**\*Sample Area:** 0.248 sq ft

ELEMENT	ANALYTE CONCENTRATION	ANALYTE REPORTING LIMIT (RL)	*AREA CONCENTRATION	*CALCULATED REPORTING LIMIT (RL)
Lead	- < RL	2.5 ug	- < RL	10 ug/ft <sup>2</sup>

\*Based on sampling information supplied by the client.

Revised Report: This revised report replaces 2023-03-10-008 dated 3/21/23. At the clients request a report was generated for each chain of custody.

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## ANALYTICAL LABORATORY REPORT

Wednesday, April 5, 2023

Page 5 of 5

**CUSTOMER:** ASTI Environmental  
10448 Citation Dr.  
Brighton, MI 48116

**DATE RECEIVED:** Friday, March 10, 2023  
**PO/PROJECT #:** 12703  
**SUBMITTAL #:** 2023-03-10-050.1 REVISED

Unless otherwise noted, the condition of each sample was acceptable upon receipt, all laboratory quality control requirements were met, and sample results have not been adjusted based on field blank or other analytical blank results. Individual sample results relate only to the sample as received by the laboratory.

**Tests Reviewed By:** David Johnson, Project Manager

Reporting Limit (RL): The lowest concentration of analyte in a sample that can be reported with a defined, reproducible level of certainty. This value is based on the lowest standard used for instrument calibration and must be at least twice the MDL.

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- **National Lead Laboratory Accreditation Program (NLLAP)**  
**A2LA:** American Association for Laboratory Accreditation (Certificate 5033.01) ([www.a2la.org](http://www.a2la.org))
- **OH:** Ohio Department of Health Lead Poisoning Prevention Program, Approval #E10013 ([www.odh.ohio.gov](http://www.odh.ohio.gov))
- **National Environmental Laboratory Accreditation Program (NELAP)**  
**NY:** State of New York Department of Health, Laboratory ID#11609 (Serial # 64722-64726) (518-485-5570)  
**LA:** State of Louisiana Department of Environmental Quality, Laboratory ID#180321 (Certificate 05036) ([www.deq.louisiana.gov](http://www.deq.louisiana.gov))  
**OK:** Oklahoma Department of Environmental Quality, Laboratory ID#9993 (Certificate 2020-074) ([www.deq.state.ok.us](http://www.deq.state.ok.us))

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### SCOPE OF ACCREDITATION

#### Air and Emissions

<u>Element/Test</u>	<u>Method</u>	<u>Accreditation(s)</u>
Suspended Particulates: PM10 / TSP	40 CFR 50 Appendix J / 40 CFR 50 Appendix B	NY, LA
Lead in Airborne Dust	40 CFR 50 Appendix G	A2LA, LA
Lead in Airborne Dust	NIOSH 7300	A2LA, OH, NY, LA
Metals in Airborne Dust	NIOSH 7300	A2LA

#### Solid Chemical Materials

<u>Element/Test</u>	<u>Method</u>	<u>Accreditation(s)</u>
TCLP	EPA 1311(Sample Preparation Method)	NY, LA, OK
Lead in Soil	EPA 3050B/ EPA 6010D	A2LA, OH, NY, LA, OK
Lead in Paint	EPA 3050B/ EPA 6010D	A2LA, OH, NY, LA
Lead in Paint	ASTM D 3335-85A/ EPA 6010D	NY
Lead in Dust Wipes	EPA 3050B/ EPA 6010D	A2LA, OH, NY, LA
Ignitability	EPA 1010A	NY
pH	EPA 9045D	NY

#### Non-Potable Water / Analysis by ICP

<u>Element/Test</u>	<u>Method</u>	<u>Accreditation(s)</u>
Arsenic	EPA 6010D/ EPA 200.7 Rev 4.4	NY, LA, OK
Barium	EPA 6010D/ EPA 200.7 Rev 4.4	NY, LA, OK
Cadmium	EPA 6010D/ EPA 200.7 Rev 4.4	NY, LA, OK
Chromium	EPA 6010D/ EPA 200.7 Rev 4.4	NY, LA, OK
Copper	EPA 6010D/ EPA 200.7 Rev 4.4	NY, LA, OK
Lead	EPA 6010D/ EPA 200.7 Rev 4.4	NY, LA, OK
Mercury	EPA 245.1 Rev.3/ EPA 7470A	NY, LA, OK
Nickel	EPA 6010D/ EPA 200.7 Rev 4.4	NY, LA, OK
Selenium	EPA 6010D/ EPA 200.7 Rev 4.4	NY, LA, OK
Silver	EPA 6010D/ EPA 200.7 Rev 4.4	NY, LA, OK
Zinc	EPA 6010D/ EPA 200.7 Rev 4.4	NY, LA, OK
Cobalt	----	----
Manganese	----	----
Acid Digestion	EPA 3010A	NY, LA

#### Solid Chemical Materials

<u>Method</u>	<u>Accreditation(s)</u>
EPA 6010D	NY, LA, OK
EPA 7471B	NY, LA, OK
EPA 6010D	NY, LA, OK
EPA 3050B	NY, LA

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# CHAIN OF CUSTODY FORM

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 (616) 940-3112 | GRLabInfo@gpinet.com | www.gpinet.com

FOR LAB USE ONLY			
Properly Contained	YES	NO	N/A
Adequate Quantity	YES	NO	N/A
Received on Ice	YES	NO	N/A
Temp: C/F (Therm #13/ )		pH:	N/A

Company: <b>ASTI Environmental</b>	Address: <b>10448 Citation Dr, Brighton, MI 48116</b>	Company Contact: <b>Lathan Saperstein / Dave Amir</b>	P.O./Proj #: <b>12703</b>
		Telephone: <b>(810) 599-6701 / (810) 225-2800</b>	Location: <b>528-2</b>
		E-Mail: <b>Lsaperstein@asti-env.com / DAmir@Asti-env.com</b>	

Matrix	TCLP (Waste)	Metals Content	Other Tests	Turnaround Time	Comments: <i>B.R. 3 1005 to Policy</i>
<input type="checkbox"/> Paint Chips <input type="checkbox"/> Soil <input type="checkbox"/> Abrasive <input type="checkbox"/> Wastewater	<input checked="" type="checkbox"/> Wipe <input type="checkbox"/> Filter	<input type="checkbox"/> Lead <input type="checkbox"/> RCRA (8) Metals <input type="checkbox"/> 5	<input checked="" type="checkbox"/> Lead <input type="checkbox"/> Lead, Cad., Chrome. <input type="checkbox"/> RCRA (8) Metals	<input type="checkbox"/> pH (Corrosivity) <input type="checkbox"/> Ignitability <input type="checkbox"/> VOC (Method 24, etc)	

GPI Labs accepts Visa, MasterCard, and American Express. \*Accelerated Turnaround is not available for every test. Please call for information.

Laboratory ID	Sample Number	Date/Time Sampled	Sample Identification / Location:	Special Instructions:	Area wiped (sq.ft.)	Air Sampling Filters		
						Minutes	Flow Rate	UNITS
A029525	FL-01	03/07/23	BEDROOM 1 - <i>Kids Room</i>		1			
A029526	FL-02	03/07/23	PORCH / PLAY AREA		1			
A029527	FL-03	03/07/23	BEDROOM 3		1			
A029528	FL-04	03/07/23	BATHROOM 1		1			
A029529	FL-05	03/07/23	KITCHEN		1			
A029530	FL-06	03/07/23	LIVING ROOM		1			
A029531	WS-01	03/07/23	BEDROOM 1 - <i>Kids Room</i>	2.75*21.5	.411			
A029532	WS-02	03/07/23	PORCH/PLAY AREA	5.5*22	.840			
A029533	WS-06	03/07/23	LIVING ROOM	2.75*13	.248			
A029534	WS-05	03/07/23	KITCHEN	2.75*13	.248			

Sampled By (Please print) : Lathan Saperstein Date Submitted: 03/07/2023 Signature:

Received by: \_\_\_\_\_ Date/Time: \_\_\_\_\_ Relinquished Date/Time: \_\_\_\_\_

Received by: \_\_\_\_\_ Date/Time: \_\_\_\_\_ Relinquished Date/Time: \_\_\_\_\_

Method of Shipment: \_\_\_\_\_

Received for Laboratory by: Date/Time: 3-09-23 12:30 Submittal #: 2023-03-10-008 10/16/18Fom# 53-14

*03/10/23*  
*2023-03-10-050*  
*VTG 3/13/23*

**Certificate of Analysis: Lead In Soil by EPA SW-846 7420 and 3050B Method\***

**Client :** ASTI Environmental  
 10448 Citation Dr. Suite 100  
 Brighton, MI 48116

**Attn :** David Amir                      **Email :** damir@asti-env.com  
**Phone :** 616-540-7464                  **Fax :** 410 729-4344

**Client Project :** 12703

**Project Location :** 528 VIRGINIA

**AAT Project :** 896341

**Sampling Date :** 03/22/2023

**Date Received :** 03/24/2023

**Date Analyzed :** 03/28/2023

**Date Reported :** 03/28/2023

Lab Sample ID	Client Code	Sample Description	Results Lead µg/g (PPM)	Calculated RL µg/g *
8291867	SL-528	528 FLOWER BED	90.71	10.16

Analyst Signature



Alexis Pheeney

\*RL= Reporting Limit \* For true values assume (2) significant figures. The method and batch QC are acceptable unless otherwise stated. Current EPA/HUD Interim Standard for soil samples are: 400 PPM (parts per million) for play area's, 1200 PPM for building Perimeters and 1000 PPM for California Building Perimeters. AAT internal sop S204. The laboratory operates in accord with ISO 17025 guidelines and holds limited scopes of accreditation under AIHA-LAP and NY State DOH ELAP programs. These results are submitted pursuant to AAT LLC current terms and conditions of sale, including the company's standard warranty and limitation of liability provisions. Analytical results relate to the samples as received by the lab. AAT will not assume any liability or responsibility for the manner in which the results are used or interpreted. Reproduction of this document other than in its entirety is not permitted. AAT does not blank correct reported values. Sample data apply only to items analyzed. Samples are stored for 15 days following report date. \*= Validated modified method

AIHA LAP- Lab ID #100986, NY State DOH ELAP -Lab ID #11864, State of Ohio- Lab ID # 10042

Date Printed: 03/28/2023 2:29PM

AAT Project: 896341





30105 Beverly Road  
Romulus, MI 48174  
Ph: 734-629-8161; Fax: 734-629-8431

To : ASTI Environmental  
10448 Citation Dr. Suite 100  
Brighton, MI 48116

AAT Project : 896341  
Client Project : 12703  
Date Reported : 03/28/2023

Attn : David Amir                      Email : damir@asti-env.com  
Phone : 616-540-7464

Project Location : 528 VIRGINIA

Sample	Client Code	Analysis Requested	Completed	Analyst
8291867	SL-528	Lead Soil	03/28/2023	Alexis Pheeney

Reviewed By

Elyse Bidle  
Quality Assurance Coordinator

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ROMULUS MI 48174  
(734) 699-LABS (5227)  
FAX: (734) 699-8407

Website: [www.accurate-test.com](http://www.accurate-test.com)

Email: [customersupport@accurate-test.biz](mailto:customersupport@accurate-test.biz)



**SUBMITTING COMPANY**  
ASTI Environmental  
10448 Citation Dr.  
Suite 100  
BRIGHTON, MI 48116

**CONTACT INFORMATION**  
Lathan Saperstein / Dave Amir  
Office: (800) 395-2784  
Fax: 810.225.3800  
Cell: 810.599.6701

[lsaperstein@asti-env.com](mailto:lsaperstein@asti-env.com) /

Email: [Damir@asti-env.com](mailto:Damir@asti-env.com)

PO #

PROJECT NUMBER	<u>12703</u>	SAMPLING DATE:	<u>3 / 22 / 23</u>	REQUESTED ANALYSIS	<b>LEAD</b>	TURNAROUND TIME (please check one) SAME DAY ( ) 24 Hour ( ) 48 Hour ( ) 72 hours ( <input checked="" type="checkbox"/> ) If no TAT is indicated, default is 72 hours
PROJECT ADDRESS	<u>528 Virginia</u>	SAMPLE START TIME	SAMPLE END TIME	SINGLE WIPE DUST	( )	
RISK ASSESSOR	Lathan Saperstein P-08947			COMPOSITE SOIL	( <input checked="" type="checkbox"/> )	
				PAINT CHIP	( )	
				% By Wt	mg/cm <sup>2</sup>	
				( )	( )	

LAB ID #	CLIENT SAMPLE ID	DESCRIPTION	WS, WT, F	WIPE AREA (e.g. 12 in X 12 in)	CLIENT COMMENTS
<u>89180A</u>	<u>SL-528</u>	<u>528 Flower Bed</u>		X	SAMPLES SHIPPED
				X	
				X	NY STATE SAMPLES <input type="checkbox"/>
				X	(check here)
				X	SAMPLE CONDITION
				X	SEALS INTACT Y N
				X	CONTAINERS LABELED Y N
				X	RECVD & ACCEPTED Y N
				X	LAB REMARKS
				X	
				X	
				X	
				X	
				X	LAB PROJECT NUMBER <u>890341</u>
				X	
				X	
SAMPLES RELINQUISHED BY		SAMPLES RECEIVED BY		DATE	TIME
<u>SL</u>		<u>[Signature]</u>		<u>MAR 24 2023</u>	AM
<u>3/23</u>					PM

By submitting samples to AAT, the client agrees to AAT's terms and conditions.  
AAT is not responsible for shipping delays

## ANALYTICAL LABORATORY REPORT

Wednesday, April 5, 2023

Page 1 of 3

**CUSTOMER:** ASTI Environmental  
10448 Citation Dr.  
Brighton, MI 48116

**DATE RECEIVED:** Friday, March 10, 2023  
**PO/PROJECT #:** 12703  
**SUBMITTAL #:** 2023-03-10-056.1 REVISED

**LAB NUMBER: AD29579**

**Sampled By:** Lathan Saperstein

**Date Sampled:** 03/07/2023

**Job Location:** OFFICE

**Sample Description:** Dust Wipe

**Sample Identification:** FL-01 : MAIN

**Preparation Method:** EPA 3050B-M-W (Acid Digestion for Surface Wipe Samples)

**Analysis Method:** EPA 6010D-M (ICP-AES Method for Determination of Metals)

**Date Analyzed:** Monday, March 20, 2023

**\*Sample Area:** 1.0 sq ft

ELEMENT	ANALYTE CONCENTRATION	ANALYTE REPORTING LIMIT (RL)	*AREA CONCENTRATION	*CALCULATED REPORTING LIMIT (RL)
Lead	- < RL	2.5 ug	- < RL	2.5 ug/ft <sup>2</sup>

\*Based on sampling information supplied by the client.

**LAB NUMBER: AD29580**

**Sampled By:** Lathan Saperstein

**Date Sampled:** 03/07/2023

**Job Location:** OFFICE

**Sample Description:** Dust Wipe

**Sample Identification:** FL-02 : BATHROOM

**Preparation Method:** EPA 3050B-M-W (Acid Digestion for Surface Wipe Samples)

**Analysis Method:** EPA 6010D-M (ICP-AES Method for Determination of Metals)

**Date Analyzed:** Monday, March 20, 2023

**\*Sample Area:** 1.0 sq ft

ELEMENT	ANALYTE CONCENTRATION	ANALYTE REPORTING LIMIT (RL)	*AREA CONCENTRATION	*CALCULATED REPORTING LIMIT (RL)
Lead	- < RL	2.5 ug	- < RL	2.5 ug/ft <sup>2</sup>

\*Based on sampling information supplied by the client.

**LAB NUMBER: AD29581**

**Sampled By:** Lathan Saperstein

**Date Sampled:** 03/07/2023

**Job Location:** OFFICE

**Sample Description:** Dust Wipe

**Sample Identification:** FL-03 : ENTRY

**Preparation Method:** EPA 3050B-M-W (Acid Digestion for Surface Wipe Samples)

**Analysis Method:** EPA 6010D-M (ICP-AES Method for Determination of Metals)

**Date Analyzed:** Monday, March 20, 2023

**\*Sample Area:** 1.0 sq ft

ELEMENT	ANALYTE CONCENTRATION	ANALYTE REPORTING LIMIT (RL)	*AREA CONCENTRATION	*CALCULATED REPORTING LIMIT (RL)
Lead	- < RL	2.5 ug	- < RL	2.5 ug/ft <sup>2</sup>

\*Based on sampling information supplied by the client.

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## ANALYTICAL LABORATORY REPORT

Wednesday, April 5, 2023

Page 2 of 3

**CUSTOMER:** ASTI Environmental  
10448 Citation Dr.  
Brighton, MI 48116

**DATE RECEIVED:** Friday, March 10, 2023  
**PO/PROJECT #:** 12703  
**SUBMITTAL #:** 2023-03-10-056.1 REVISED

**LAB NUMBER: AD29582**

**Sampled By:** Lathan Saperstein

**Date Sampled:** 03/07/2023

**Job Location:** OFFICE

**Sample Description:** Dust Wipe

**Sample Identification:** WS-01 : MAIN

**Preparation Method:** EPA 3050B-M-W (Acid Digestion for Surface Wipe Samples)

**Analysis Method:** EPA 6010D-M (ICP-AES Method for Determination of Metals)

**Date Analyzed:** Monday, March 20, 2023

**\*Sample Area:** 0.5 sq ft

ELEMENT	ANALYTE CONCENTRATION	ANALYTE REPORTING LIMIT (RL)	*AREA CONCENTRATION	*CALCULATED REPORTING LIMIT (RL)
Lead	- < RL	2.5 ug	- < RL	5.0 ug/ft <sup>2</sup>

\*Based on sampling information supplied by the client.

Revised report: This revised report replaces 2023-03-10-008 dated 3/21/23. At the clients request a report was generated for each chain of custody.

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## ANALYTICAL LABORATORY REPORT

Wednesday, April 5, 2023

Page 3 of 3

**CUSTOMER:** ASTI Environmental  
10448 Citation Dr.  
Brighton, MI 48116

**DATE RECEIVED:** Friday, March 10, 2023  
**PO/PROJECT #:** 12703  
**SUBMITTAL #:** 2023-03-10-056.1 REVISED

Unless otherwise noted, the condition of each sample was acceptable upon receipt, all laboratory quality control requirements were met, and sample results have not been adjusted based on field blank or other analytical blank results. Individual sample results relate only to the sample as received by the laboratory.



Digitally signed by David Johnson  
Date: 2023.04.05 08:42:00 -04'00'

**Tests Reviewed By:** David Johnson, Project Manager

**Reporting Limit (RL):** The lowest concentration of analyte in a sample that can be reported with a defined, reproducible level of certainty. This value is based on the lowest standard used for instrument calibration and must be at least twice the MDL.

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**LA:** State of Louisiana Department of Environmental Quality, Laboratory ID#180321 (Certificate 05036) ([www.deq.louisiana.gov](http://www.deq.louisiana.gov))  
**OK:** Oklahoma Department of Environmental Quality, Laboratory ID#9993 (Certificate 2020-074) ([www.deq.state.ok.us](http://www.deq.state.ok.us))

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Element/Test	Method	Accreditation(s)
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Lead in Airborne Dust	40 CFR 50 Appendix G	A2LA, LA
Lead in Airborne Dust	NIOSH 7300	A2LA, OH, NY, LA
Metals in Airborne Dust	NIOSH 7300	A2LA

#### Solid Chemical Materials

Element/Test	Method	Accreditation(s)
TCLP	EPA 1311(Sample Preparation Method)	NY, LA, OK
Lead in Soil	EPA 3050B/ EPA 6010D	A2LA, OH, NY, LA, OK
Lead in Paint	EPA 3050B/ EPA 6010D	A2LA, OH, NY, LA
Lead in Paint	ASTM D 3335-85A/ EPA 6010D	NY
Lead in Dust Wipes	EPA 3050B/ EPA 6010D	A2LA, OH, NY, LA
Ignitability	EPA 1010A	NY
pH	EPA 9045D	NY

#### Non-Potable Water / Analysis by ICP

Element/Test	Method	Accreditation(s)
Arsenic	EPA 6010D/ EPA 200.7 Rev 4.4	NY, LA, OK
Barium	EPA 6010D/ EPA 200.7 Rev 4.4	NY, LA, OK
Cadmium	EPA 6010D/ EPA 200.7 Rev 4.4	NY, LA, OK
Chromium	EPA 6010D/ EPA 200.7 Rev 4.4	NY, LA, OK
Copper	EPA 6010D/ EPA 200.7 Rev 4.4	NY, LA, OK
Lead	EPA 6010D/ EPA 200.7 Rev 4.4	NY, LA, OK
Mercury	EPA 245.1 Rev.3/ EPA 7470A	NY, LA, OK
Nickel	EPA 6010D/ EPA 200.7 Rev 4.4	NY, LA, OK
Selenium	EPA 6010D/ EPA 200.7 Rev 4.4	NY, LA, OK
Silver	EPA 6010D/ EPA 200.7 Rev 4.4	NY, LA, OK
Zinc	EPA 6010D/ EPA 200.7 Rev 4.4	NY, LA, OK
Cobalt	----	----
Manganese	----	----
Acid Digestion	EPA 3010A	NY, LA

#### Solid Chemical Materials

Method	Accreditation(s)
EPA 6010D	NY, LA, OK
EPA 7471B	NY, LA, OK
EPA 6010D	NY, LA, OK
EPA 3050B	NY, LA

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# CHAIN OF CUSTODY FORM



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 (616) 940-3112 | GRLabInfo@gpinet.com | www.gpinet.com

FOR LAB USE ONLY			
Properly Contained	YES	NO	N/A
Adequate Quantity	YES	NO	N/A
Received on Ice	YES	NO	N/A
Temp: C/F (Therm #13/ )	pH: <u>N/A</u>		

Company: <b>ASTI Environmental</b>	Address: <b>10448 Citation Dr, Brighton, MI 48116</b>	Company Contact: <b>Lathan Saperstein / Dave Amir</b>	P.O./Proj #: <b>12703</b>
		Telephone: <b>(810) 599-6701 / (810) 225-2800</b>	Location: <b>OFFICE</b>
		E-Mail: <b>Lsaperstein@asti-env.com / DAmir@Asti-env.com</b>	

Matrix	TCLP (Waste)	Metals Content	Other Tests	Turnaround Time	Comments:
<input type="checkbox"/> Paint Chips <input checked="" type="checkbox"/> Wipe <input type="checkbox"/> Soil <input type="checkbox"/> Filter <input type="checkbox"/> Abrasive <input type="checkbox"/> _____ <input type="checkbox"/> Wastewater	<input type="checkbox"/> Lead <input type="checkbox"/> RCRA (8) Metals <input type="checkbox"/> 5 _____	<input checked="" type="checkbox"/> Lead <input type="checkbox"/> Lead, Cad., Chrome. <input type="checkbox"/> RCRA (8) Metals <input type="checkbox"/> _____	<input type="checkbox"/> pH (Corrosivity) <input type="checkbox"/> Ignitability <input type="checkbox"/> VOC (Method 24, etc) <input type="checkbox"/> _____	<input type="checkbox"/> Same Day* <input type="checkbox"/> Rush* <input checked="" type="checkbox"/> Standard <input type="checkbox"/> _____	

GPI Labs accepts Visa, MasterCard, and American Express. \*Accelerated Turnaround is not available for every test. Please call for information.

Laboratory ID	Sample Number	Date/Time Sampled	Sample Identification / Location:	Special Instructions:	Area wiped (sq.ft.)	Air Sampling Filters		
						Minutes	Flow Rate	UNITS
<u>A029579</u>	<u>FL-01</u>	<u>03/07/23</u>	<u>MAIN</u>		<u>1</u>			
<u>A029580</u>	<u>FL-02</u>	<u>03/07/23</u>	<u>BATHROOM</u>		<u>1</u>			
<u>A029581</u>	<u>FL-03</u>	<u>03/07/23</u>	<u>ENTRY</u>		<u>1</u>			
<u>A029582</u>	<u>WS-01</u>	<u>03/07/23</u>	<u>MAIN</u>	<u>6*12</u>	<u>.5</u>			

Sampled By (Please print): Lathan Saperstein      Date Submitted: 03/07/2023      Signature: [Signature]

Received by: \_\_\_\_\_ Date/Time: \_\_\_\_\_ Relinquished Date/Time: \_\_\_\_\_

Received by: \_\_\_\_\_ Date/Time: \_\_\_\_\_ Relinquished Date/Time: \_\_\_\_\_

Method of Shipment: \_\_\_\_\_

Received for Laboratory by: <u>Dad [Signature]</u>	Date/Time: <u>3-09-23 12:30</u>	Submittal #: <u>2023-03-10-000</u>	10/16/18Form#: 53-14
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05b  
Dr 4-05-23  
3/12/23

**Appendix G**  
**HUD Standard Reevaluation Schedule**

ASTI Project No.:12703

528 Virginia Avenue



Standard Reevaluation Schedules

Schedule	Evaluation Results	Action Taken	Reevaluation Frequency and Duration	Visual Survey (by owner or owner's representative)
1	Combination risk assessment/inspection finds no leaded dust or soil and no lead-based paint.	None.	None.	None.
2	No lead-based paint hazards found during risk assessment conducted before hazard control or at clearance (hazards include dust and soil).	None.	3 Years.	Annually and whenever information indicates a possible problem .
3	The average of leaded dust levels on all floors, interior window sills, or window troughs sampled exceeds the applicable standard, but by less than a factor of 10.	A. Interim controls and/or hazard abatement (or mixture of the two), including, but not necessarily limited to, dust removal. This schedule does not include window replacement.	1 Year, 2 Years.	Same as Schedule 2, except for encapsulants. The first visual survey of encapsulants should be done one month after clearance; the second should be done 6 months later and annually thereafter.
		B. Treatments specified in section A plus replacement of all windows with lead hazards.	1 Year.	
		C. Abatement of all lead-based paint using encapsulation or enclosure.	None.	Same as Schedule 3 above.
		D. Removal of all lead-based paint.	None.	None.
4	The average of leaded dust levels on all floors, interior window sills, or window troughs sampled exceeds the applicable standard by a factor of 10 or more.	A. Interim controls and/or hazard abatement (or mixture of the two), including, but not necessarily limited to dust removal. This schedule does not include window replacement.	6 Months, 1 Year, 2 Years.	Same as Schedule 3.
		B. Treatments specified in section A plus replacement of all windows with lead hazards.	6 Months, 2 Years.	Same as Schedule 3.
		C. Abatement of all lead-based paint using encapsulation and enclosure.	None.	Same as Schedule 3.
		D. Removal of all lead-based paint.	None.	None.

Standard Reevaluation Schedules (continued)

Schedule	Evaluation Results	Action Taken	Reevaluation Frequency and Duration	Visual Survey (by owner or owner's representative)
5	No leaded dust or leaded soil hazards identified, but lead-based paint or lead-based paint hazards are found.	A. Interim controls or mixture of interim controls and a batement (not including window replacement).	2 Years.	Same as Schedule 3.
		B. Mixture of interim controls and abatement, including window replacement.	3 Years.	Same as Schedule 3.
		C. Abatement of all lead-based paint <i>hazards</i> , but not all lead-based paint.	4 Years.	Same as Schedule 3.
		D. Abatement of all lead-based paint using encapsulation or enclosure.	None.	Same as Schedule 3.
		E. Removal of all lead-based paint.	None.	None.
6	Bare leaded soil exceeds standard, but less than 5,000 µg/g.	Interim controls.	None.	Three months to check new ground cover, then annually to identify new bare spots.
7	Bare leaded soil greater than or equal to 5,000 µg/g.	Abatement (paving or removal).	None.	None for removal, annually to identify new bare spots or deterioration of paving.

See notes to table 6.1 on following page.

## Notes to Table

1. When more than one schedule applies to a dwelling, use the one with the most stringent reevaluation schedule. Do not use the results of a reevaluation for Schedule 2.
2. A lead-based paint hazard includes, but is not limited to, deteriorated lead-based paint and leaded dust and soil above applicable standards. See the Glossary for a more complete definition.
3. The frequency of reevaluations and the interval between reevaluations depends on the findings at each reevaluation and the action taken. For example, a dwelling unit or common area falling under Schedule 3.A would be reevaluated 1 year after clearance. If no lead-based paint hazards are detected at that time, the unit or area would be reevaluated again 2 years after the first reevaluation. If no hazards are found in the second reevaluation, no further reevaluation is necessary, but annual visual monitoring should continue.

If, on the other hand, the unit or common area fails a reevaluation, a new reevaluation schedule should be determined based on the results of the reevaluation and the action taken. For instance, if the reevaluation finds deteriorated lead-based paint but no lead-contaminated dust, and the action taken is paint stabilization, Schedule 5.A would apply, which indicates that the next reevaluation should be in 2 years. If, however, the owner of this same property decides to abate all lead-based paint hazards instead of doing only paint stabilization, the property would move to Schedule 5.C, which calls for reevaluation 4 years from the date of clearance after the hazard abatement.

Following another scenario, suppose a reevaluation of this same dwelling unit or common area finds that the average dust lead levels on sampled window troughs exceeds the applicable standard by a factor of 10 or more, but no other lead-based paint hazards. The owner conducts dust removal. In this case the next reevaluation would be 6 months after clearance followed by another a year later, followed by yet another 2 years later, as indicated by Schedule 4.A.

4. The initial evaluation results determine which reevaluation schedule should be applied. An initial evaluation can be a risk assessment, a risk assessment/ inspection combination, or, if the owner has opted to bypass the initial evaluation and proceed directly to controlling suspected hazards, a combination risk assessment/clearance examination. This type of clearance must be conducted by a certified risk assessor, who should determine if all hazards were in fact controlled. The results of the initial clearance dust tests, soil sampling and visual examination should be used to determine the appropriate schedule. If repeated cleaning was necessary to achieve clearance, use the results of the dust tests *before* repeated cleaning was performed for schedule determination.
  5. If a unit fails two consecutive reevaluations, the reevaluation interval should be reduced by half and the number of reevaluations should be doubled. If deteriorated lead-based paint hazards continue to occur, then the offending components/surfaces should be abated. If dwellings with dust hazards but no paint-related hazards repeatedly fail reevaluations, the exterior source should be identified (if identification efforts fail, regular dust removal efforts are needed).
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