

Michigan Department of Community Health

Division of Environmental and Occupational Epidemiology
 Lead Hazard Remediation Program
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LEAD-BASED PAINT INVESTIGATION PROTOCOL

This Lead-Based Paint Investigation Protocol is a basic protocol for use when performing EBL-related environmental investigations.

- 1) Schedule an appointment with the client.
- 2) Pull file folder and review the case.
- 3) Arrive on-site as scheduled.
- 4) Number rooms on the site map and orient data and diagrams as A, B, C, D elevations with A side being front entry side facing street
- 5) Initialize your XRF unit.
 - a) Erase any unnecessary data.
 - b) Calibrate the XRF unit using the appropriate NIST standard or the 0.3 mg/cm² & the 1.0 mg/cm² NITON™ standard. Remember to calibrate before & after lunch & after the investigation is complete.
 - c) Review *Performance Characteristic Sheet* for the unit you are using.
- 6) Record paint conditions and sample each room according to the following chart:

COMPONENT	TOTAL NUMBER OF SAMPLES PER COMPONENT	SAMPLE PER SURFACE
INTERIOR		
Wall	4 (varying locations)	One on each wall
Baseboard	1	One per room unless different painting history
Radiator/vent	1	One per room unless different painting history
Window	Select and alternate <i>at least</i> 1 component within each testing combination: Interior: Mullion or sash Interior: Casing, stop, jamb, apron, sill Interior Trough or exterior sill Exterior: Sash or mullion Exterior: Casing, stop, apron, sill Exterior: Storm sash	One per wall unless different painting history

COMPONENT	TOTAL NUMBER OF SAMPLES PER COMPONENT	SAMPLE PER SURFACE
Door	Select and alternate <i>at least</i> 1 component within each testing combination: Jamb, stop, transom, casing Stile, rail, panel, mullion Note: Treat door components as separate testing combinations for both sides of the door, i.e., test in the bedroom but also include testing for the hall side.	Each door
Floor	1	Each bare surface
Ceiling	1	Each room
Stairway	5 (tread, riser, handrail, newel post, stringer)	Each Stairway
Cabinet	3 (door, cabinet frame, cabinet interior or shelf)	Each wall
Fireplace	---	One on each component
Fixtures	---	One on each wall
Other permanent features	---	One on each component

EXTERIOR

Siding	4 (varying locations)	One on each side; additional testing will be required for add-on structures
Window	Refer to interior/windows	One per wall unless different painting history
Door	Refer to interior/doors	Each door
Porch	Floor, railing, column, soffit, fascia, box beam, ceiling	Each porch
Fence	---	Each side
Garage	Siding, trim, Refer to interior/windows Refer to interior/doors	One on each side

- a) If painted components (not listed above) are observed, then the investigator shall take the appropriate amount of samples for that component.
 - b) If a component (i.e., wall) is covered with an unpainted surfacing material (i.e., paneling) that appears to have been manufactured after 1960, the surface does not require testing. A field note should be recorded as to the reason the component was not tested.
 - c) If a painted component (i.e., a fascia or soffit near the peak of the roof) is inaccessible, it shall be assumed similar to other similarly painted exterior trim (i.e., porch soffit and fascia).
- 7) Record and measure positive components ($\geq 1/0 \text{ mg/cm}^2$) which are peeling, cracking and/or chipping, show evidence of mouthing, are child-accessible or are impact or friction surfaces.
 - 8) Collect paint chips according to HUD Guidelines, if necessary or requested by the client.
 - 9) Collect house perimeter composite soil samples and sample bare/ play soil areas according to HUD Guidelines.
 - 10) Return to office. Download/record and verify XRF data and put into file. Fill out chain of custody documents (Form #FB 220), if necessary, and send samples and forms to the State laboratory for analysis.
 - 11) Examine dust wipe, XRF and paint condition data.
 - a) Make sure to assess the hazards associated with each positive lead-based painted component.
 - b) Send a copy of the report to the client/owner.
 - c) Keep a copy with appropriate originals in the file folder.