

**Michigan Department of Community Health
Division of Environmental Health
Healthy Homes Section**

**EBL Environmental Investigation
In-Field Quick Reference
XRF Testing of Painted Surfaces**

The purpose of this document is to serve as a guide to X-Ray Fluorescence testing for the lead inspection portion of an EBL Environmental Investigation. It is not an all-encompassing document, nor a legal guide. Consult the *HUD Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing, Chapter 7*, for detailed information.

Interior

- Test **every** room or room equivalent, such as hallways, closets, etc.
- If a room is inaccessible (e.g. padlocked, occupant refusal), provide an explanation in the Limitations section (Section 3) of the EBL report.
- Painted surfaces include surfaces with a coating of paint, shellac, varnish, or any other coating including wallpaper that covers painted surfaces.
- You do not need to test components known to be installed after 1978. Document these in the report summary.

Inside **every** room or room equivalent, you must test (# of shots):

All 4 walls, separately (1 each)

Ceiling and beams (1 each)

Floor, unless carpeted (1)

Baseboard or trim, with similar painting history (1)

Chair rails (1)

Crown molding (1)

Built-in components such as book cases, vanities, cabinets, mirrors, etc.:

- Doors, frames, shelves and shelf supports, and interiors (1 each)

Fire place mantels, painted brick, fireplace tile (1 each)

Radiators/Registers (1)

Electrical panel boxes and other painted electrical fixtures (1 each)

Kitchen sinks and bathtub, if porcelain (1 each)

Stair system:

- Riser AND stringer AND tread (1 each of each color);
- Newel Post (1);
- Handrail (1);
- Spindle (1);
- Landing (1)

Window system:

- If the windows all have similar construction style, age, and painting history, you may test one representative window system per room
- You should test:
 - Casing or inside stop or jamb or apron (1); AND
 - Sash or mullion interior (1); AND
 - Stool (1)
- If accessible, test at least one painted storm/screen sash per room (1)

Door system:

- If the doors all have similar construction style, age, and painting history, you may test one representative door system per room
- You should test:
 - Casings or jamb or stop or transom (1); AND
 - Stile or rails or panels or mullions (1)
- Doors will be tested on BOTH sides, associated with different room identifiers on each side

Closets:

- If the closets are of the same type, age and painting history, you may test one representative closet per room
- Test the doors, shelves, rods, casing, baseboards, floor, and walls as you would in a room/room equivalent

Exterior

- Inaccessible components (e.g. fascia and soffit near the roof) shall be assumed positive for lead paint. Document these items in Section 3.0 Limitations of the EBL report.

You should test (# of shots):

Similar siding on each of 4 sides (1 shot each of each color)

Foundation on each of 4 sides, if painted (1 shot each of each color)

Exterior trim components such as (1 each):

- Fascia
- Soffit
- Frieze board
- Drip board
- Corner posts

Exterior window system (1 per side)

- Test at least one exterior window system per side, if they are of the same construction, age and paint history
- You should test:
 - Casing or stop or apron or exterior sill (1); AND
 - Sash or mullion (1); AND
 - Jamb or trough (1)
- Test 1 painted storm/screen separately per side with the same combinations

Exterior door system

- You should test all exterior doors
- You should test:
 - Casings or jamb or stop or transom (1); AND
 - Stile or rails or panels or mullions (1)
- Test all painted storm/screen doors separately with the same combinations

Open porches

- Enclosed porches should be tested as an interior room
- Test the following, if painted (1 each):
 - Deck/floor
 - Column
 - Railing
 - Baluster
 - Newel post
 - Upper beam
 - Ceiling
 - Stair tread, riser, stringer (1 each)
 - Band joist
 - Skirting/lattice
 - Walls

Other exterior items to test include:

- Garages and sheds: treat exteriors like the house and treat interiors like a room equivalent
- Painted fence (1 for each color)
- Painted swing sets and other play equipment (1 for each color)
- Clothesline posts (1)
- Trellises (1)
- Planter boxes (1)
- Coal chute and milk box access doors (1 each)