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

# EBL Environmental Investigation
# In-Field Quick Reference
# Dust Wipe and Soil Sampling

The purpose of this document is to serve as a guide to sampling for the risk assessment portion of an EBL Environmental Investigation. It is not an all-encompassing document, nor a legal guide. Consult the *MDCH Lead Laboratory's Soil Sampling and Dust Wipe Sampling Procedures for Lead* at www.michigan.gov/leadsafe for detailed information on sampling procedures.

## Dust Wipe Sampling

- Use one dust wipe per centrifuge tube. Remember that composite dust samples are not permitted in Michigan.
- You must take at least 2 dust wipe samples from each of 6 rooms
  - Each room should have a floor wipe
  - Each room should have a window sill or trough wipe, alternating between rooms.
- An EBL investigation may require more than 6 rooms to be dust-wiped. Take additional wipes according to your judgment of the child's likely exposures based on the visual assessment, household questionnaire, and site condition.
- Typical rooms to be tested are:
  - Child's bedroom: 1 floor, 1 window (sill or trough)
  - Child's play areas: 1 floor, 1 window (sill or trough)
  - Living area: 1 floor, 1 window (sill or trough)
  - Kitchen or child's eating areas: 1 floor, 1 window (sill or trough)
  - Bathroom: 1 floor, 1 window (sill or trough)
  - Frequently-used entryways/porches: 1 floor, 1 window (sill or trough)
  - Other children's bedrooms: 1 floor, 1 window (sill or trough)
  - Other high traffic area: 1 floor, 1 window (sill or trough)
  - Other areas where a child may be routinely exposed
- Take additional samples from the nearest horizontal surface (e.g. floor) adjacent to any positive XRF components where friction damage has occurred (e.g. windows or doors)
- Record on the floor plans where the samples were taken

## Soil Sampling

- If snow cover does not permit sampling, return to the home when weather permits.
- A composite sample is made up of 5-10 subsamples of each sample area
- At least one composite sample should be taken from:
  - Bare soil dripline of each of the 4 sides of the perimeter
  - Bare soil play areas (including sandboxes). Take these based on the household questionnaire and your observation of where children are playing, toys/bicycles are stored outside, etc
  - Bare soil garden areas, particularly vegetable gardens.
  - Other bare soil areas of more than 9 square feet
- Record on the site plan where the samples were taken