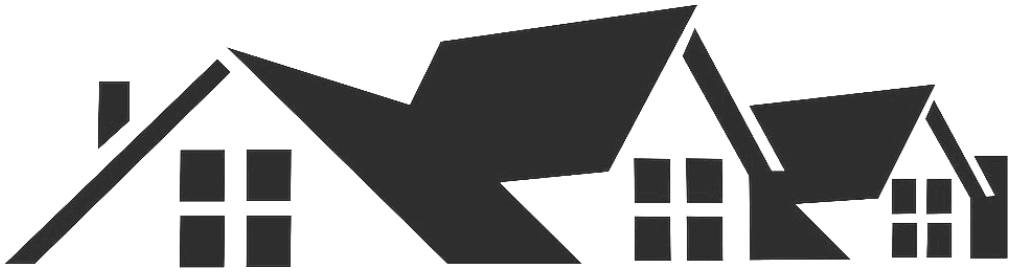
Las Vegas Lead Hazard Control and Healthy Homes

Melissa Bartshe, BS
Josh Huebner
University of Nevada, Las Vegas

Outline

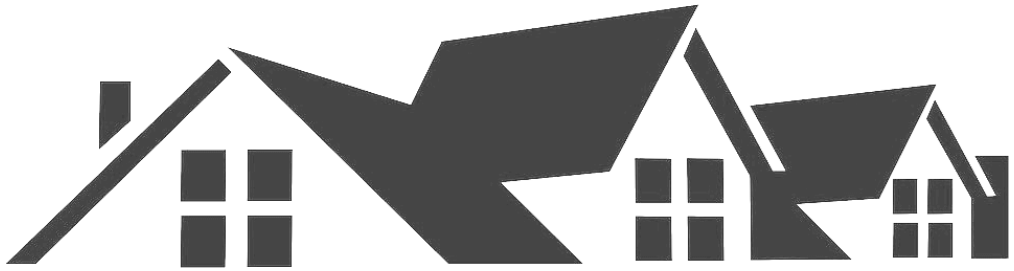


1. Las Vegas Lead Hazard Control and Healthy Homes Program
2. EPA Training Center
3. Healthy Homes Training Center
4. Nevada Childhood Lead Poisoning Prevention Program
5. Questions

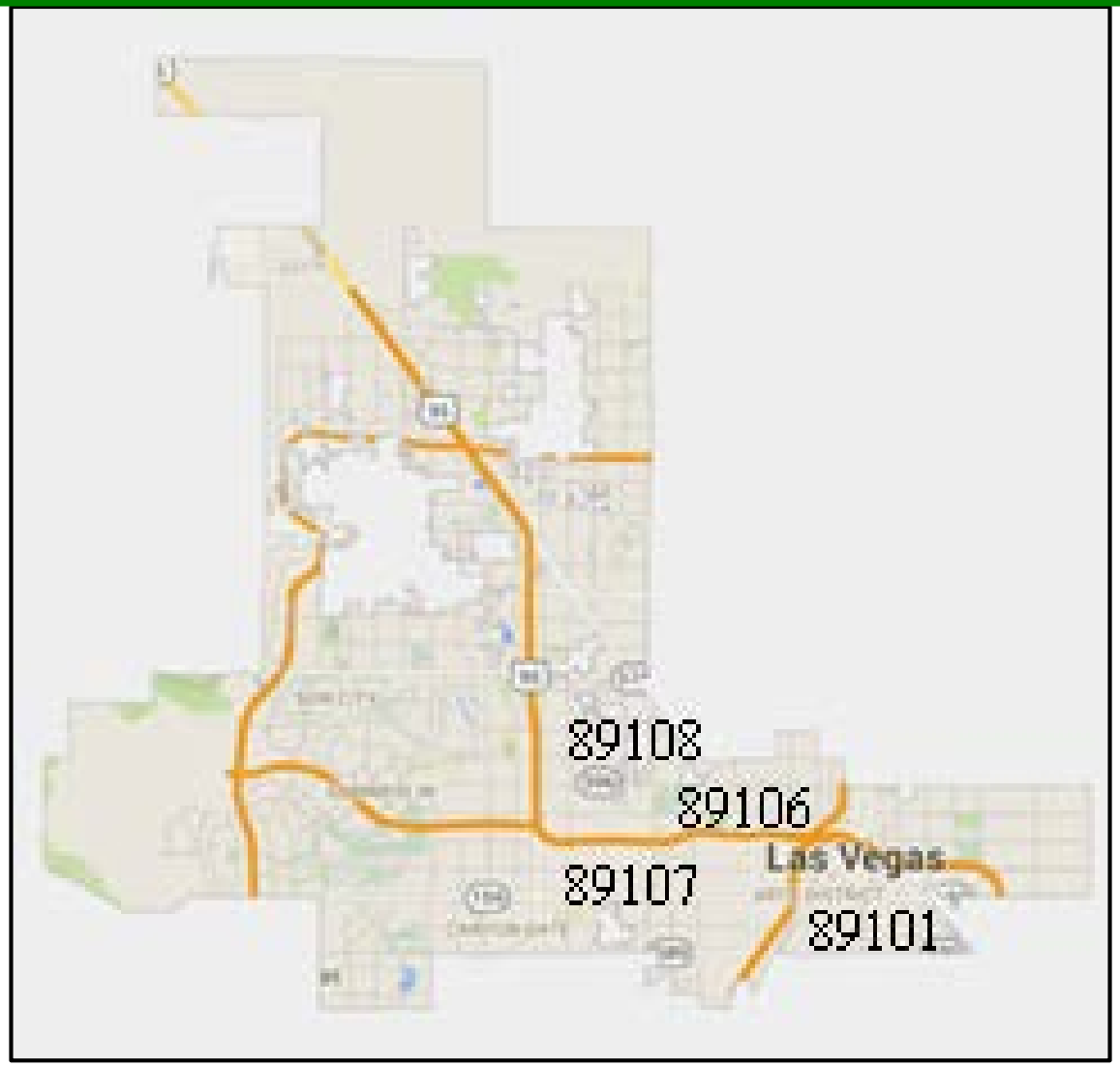
Las Vegas Lead Hazard Control and Healthy Homes Program (LVLHCHHP)

Our program: LVLHCHHP

“**The Las Vegas Lead Hazard Control and Healthy Homes Program (LVLHCHHP)** is a U.S. Department of Housing and Urban Development (**HUD**) grant-funded program to identify and control lead-based paint hazards in homes within Las Vegas, Nevada city limits, with priority given to homes with child occupants age five or under.”



LVLHCHHP Target Area



LVLHCHHP Process

Las Vegas, NV
Door-to-door, events, referral, mail, flyers.

Certified lead risk-assessors conduct lead-based paint **risk assessment** and conduct HH **visual assessment**. Findings reported to CLV.

Dust and soil samples collected to ensure no lead hazards remain in work areas.

Home/homeowners that meet program requirements are **enrolled**.

CLV creates **scope of work**, which is completed by contractors.

Outreach and Recruitment

Community Events

- UNLV Public Health Association Events
- Project Sunrise
- Safe Summer Night Celebrations

Dissemination of Program Information

- WIC Clinics
- Head Start
- Community Centers
- YMCA
- Boys & Girls Clubs
- Easter Seals
- Positively Kids
- Food Pantries
- Las Vegas Fire and Rescue
- Preschools, Day Cares, and other Learning Centers

Door-to-Door Neighborhood Canvassing

- Targeted areas including Hewetson, McWilliams, and Meadows

Presentations

- Family to Family

Outreach and Recruitment

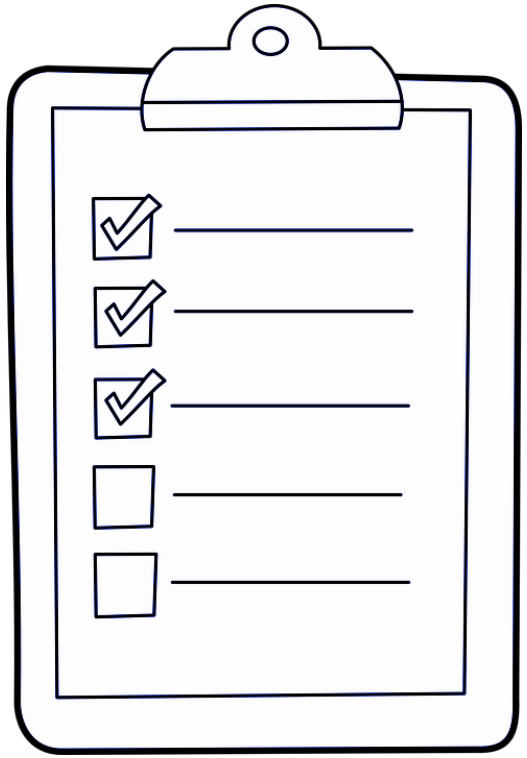
Outreach challenges:

- Building trust
- Reaching vulnerable groups
- Low literacy levels
- Reluctance to share personal information
- “Home is home”
- Denial
- Fears
- Extreme weather conditions

LVLHCHHP Qualifications

To be a participant in LVLHCHHP:

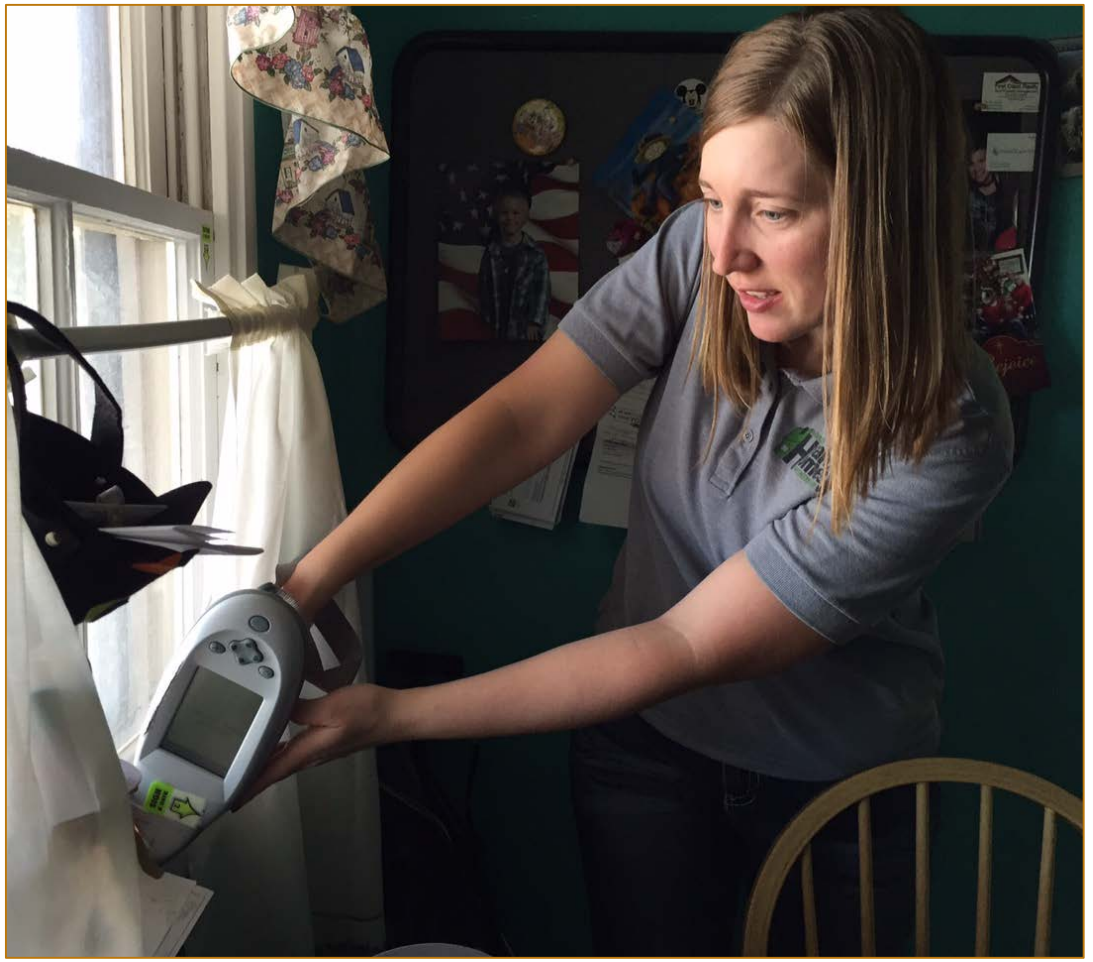
- Live in Las Vegas, NV
- Live in a home built before 1978
- Residents must meet HUD income guidelines
- Owner-occupied must have a child under the age 6 living/visiting the home or expectant mother living in the home
- Rental property owners must give priority to families with child under 6 years old for at least 3 years
- Zero bedroom units must have a child under the age 6 or expectant mother living in the home



Lead Inspection and Risk Assessment

Purpose: To identify all lead-based paint hazards present in the home.

- All painted surfaces tested using a XRF device
- Dust and soil samples collected and analyzed by a NLLAP-accredited lab



LIRA visit to Case #136

Lead Inspection and Risk Assessment

Exterior windows: a common component for lead-based paint

White window: 6.6 µg/cm^2

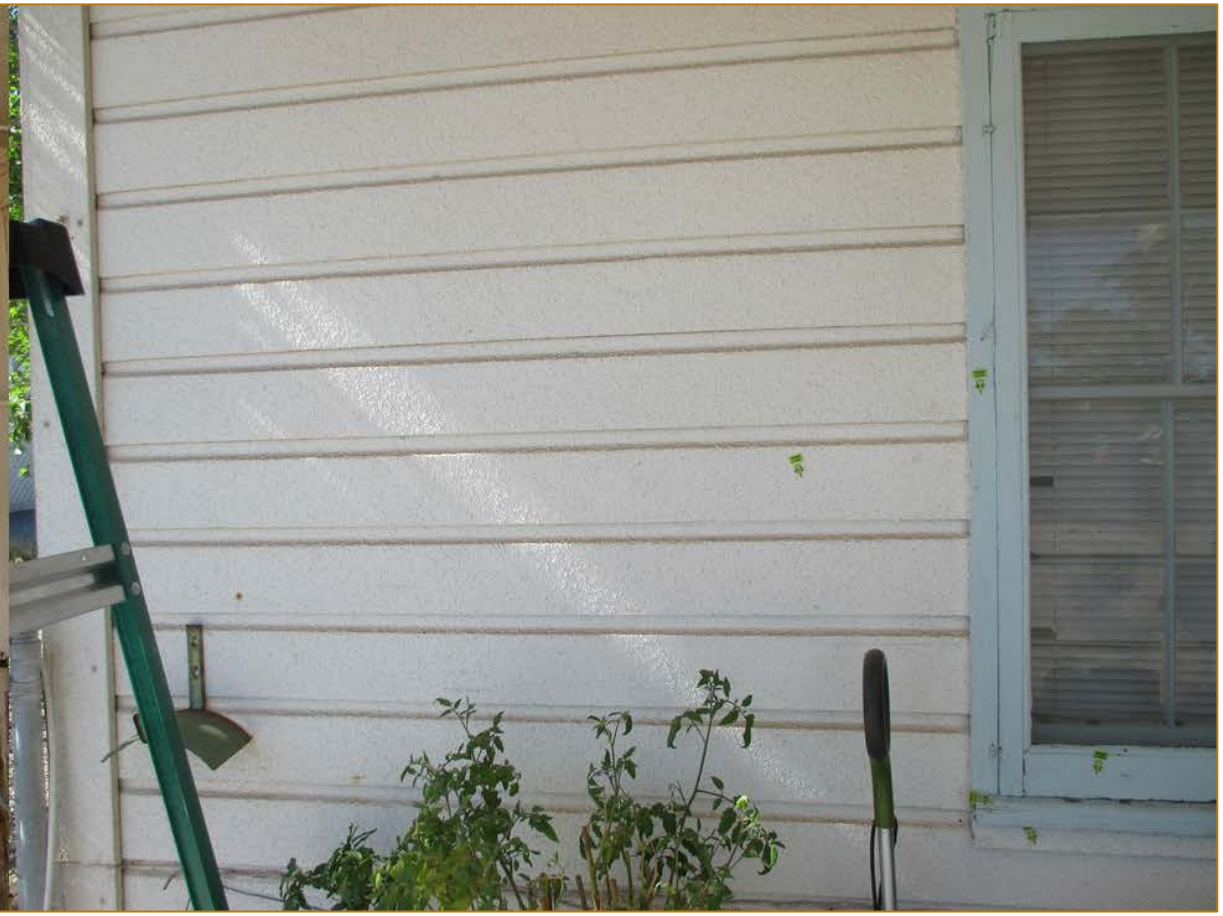
Brown window: 1.4 µg/cm^2

Green window: 5.0 µg/cm^2

Lead Inspection and Risk Assessment

Exterior siding: a common component for lead-based paint

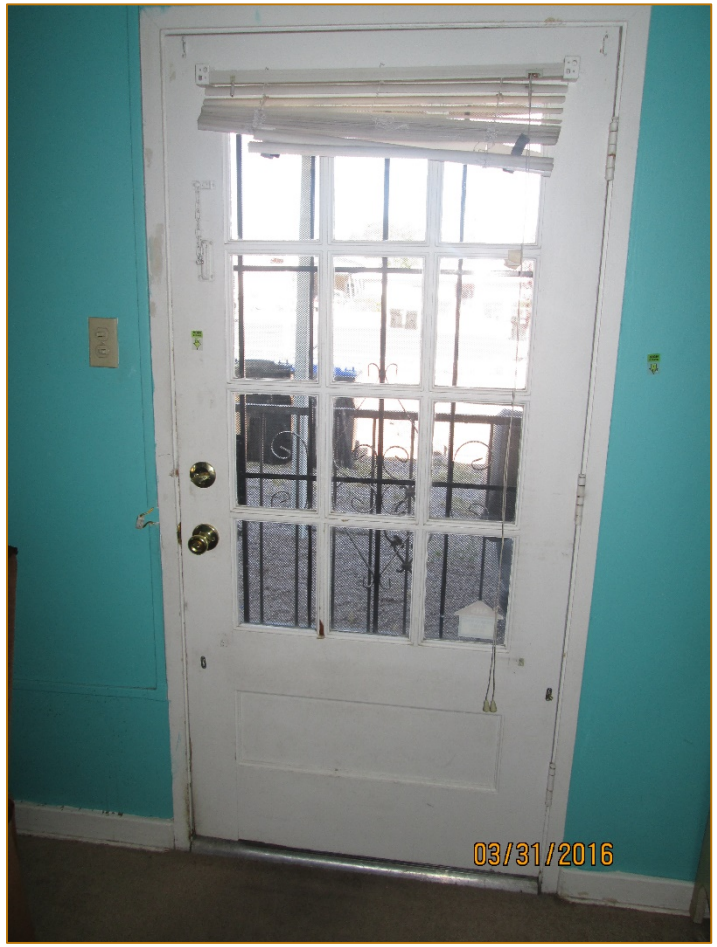
Tan siding: 8.4 µg/cm^2



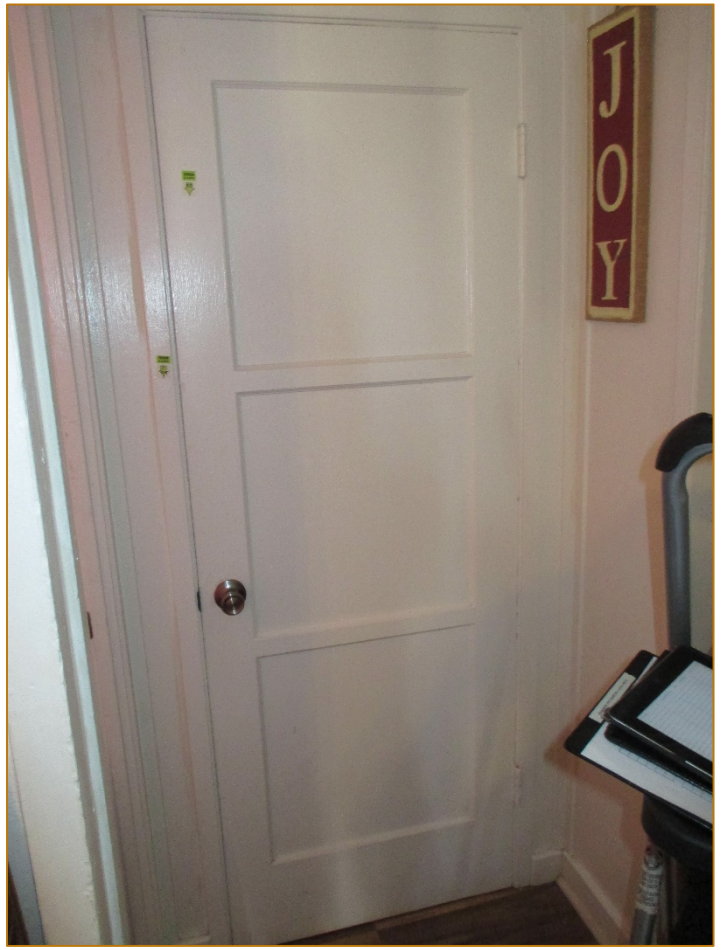
White siding: 7.7 µg/cm^2

Lead Inspection and Risk Assessment

Interior/exterior doors: a common component for lead-based paint



White door: 2.2 µg/cm^2



White door: 1.4 µg/cm^2

Green door: 1.3 µg/cm^2

Change to Risk Assessment Action Levels

Surface	EPA Lead Dust Hazard Standards	HUD's New Lead Dust Action Levels
Floors	≥ 40 µg/ft^2	≥ 10 µg/ft^2
Windowsills	≥ 250 µg/ft^2	≥ 100 µg/ft^2

Healthy Homes Visual Assessment

Purpose: To identify health and safety issues present in the home.

- Ranks hazards using the Healthy Homes Scoring System
- Considers 29 hazards and the likelihood they will cause harm

Electrical hazards

Structural collapse hazard

Volatile organic compounds

Health and Safety Hazards

Physiological

1. Dampness & mold growth
2. Excess cold
3. Excess heat
4. Asbestos & man-made fibers
5. Biocides
6. Carbon monoxide
7. Lead-based paint
8. Radiation
9. Uncombusted fuel
10. Volatile organic compounds

Psychological

11. Crowding and space
12. Entry by Intruders
13. Lighting
14. Noise

Infection

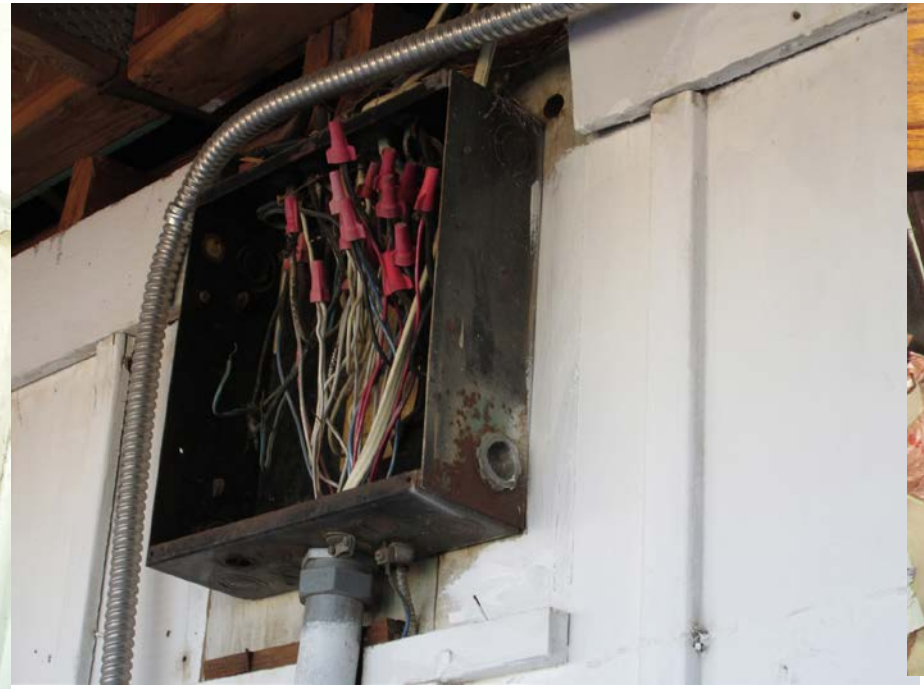
15. Domestic hygiene
16. Food safety
17. Personal hygiene
18. Water supply

Safety

19. Falls in baths
20. Falls on level surfaces
21. Falls on stairs
22. Falls between levels
23. Electrical hazards
24. Fire hazards
25. Hot surfaces
26. Collision and entrapment
27. Explosions
28. Position, operability of amenities
29. Structural collapse

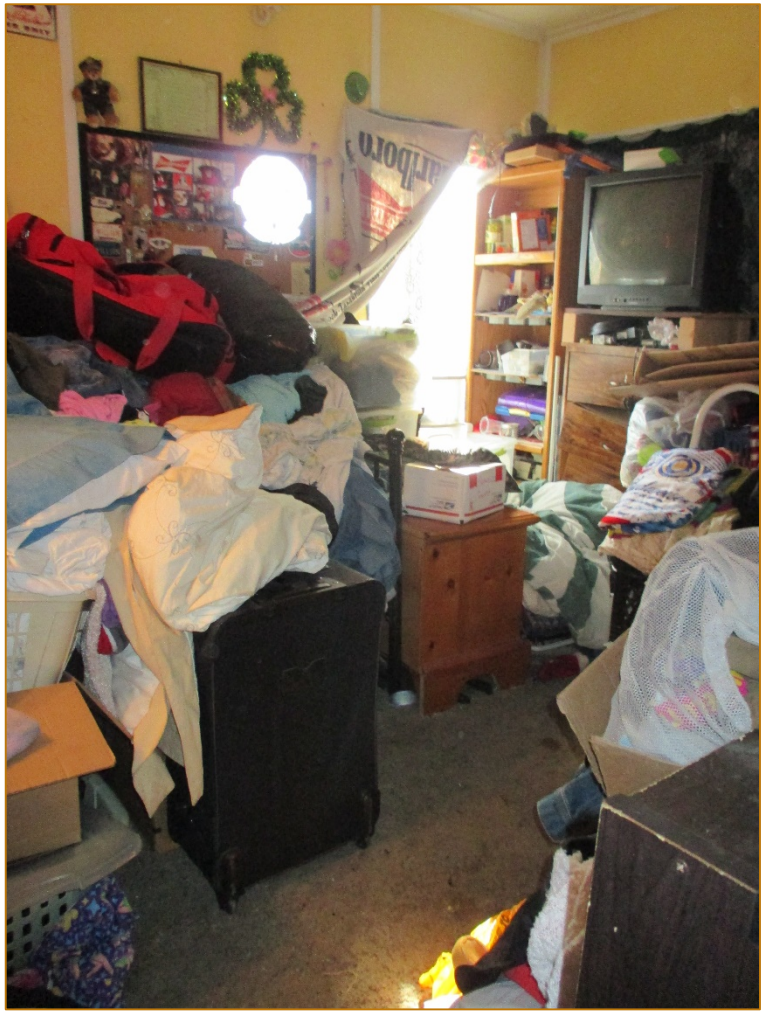
Examples of Residential Hazards

Hot surfaces



Electrical hazards

Improperly stored food and volatile organic compounds



Domestic hygiene

Dust and mold

Pests and food safety

Lead hazard control process

Clearance

- After remediation is complete, CLV conducts a **Pre-Clearance Inspection** to ensure work was completed.

- **UNLV team** follows up and performs clearance testing, which includes sample collection in work areas:
    - Dust sampling of floors
    - Dust sampling of windowsills
    - Soil samples

- **CLV Monitoring Visits** after 1 year to ensure controls for lead-based paint are intact

Clearance Dust Sampling

Lead clearance standards

Surface	EPA Standard	HUD's New Action Level
Floors	<40 µg/ft^2	<10 µg/ft^2
Windowsills	<250 µg/ft^2	<100 µg/ft^2
Window Troughs	<400 µg/ft^2	<100 µg/ft^2
Porch Floors	NA	<40 µg/ft^2

Partnership with Nevada Childhood Lead Poisoning Prevention Program

Nevada Childhood Lead Poisoning Prevention Program

- NvCLPPP can work in tandem with the Las Vegas Lead Hazard Control and Healthy Homes Program
- The objectives of the NvCLPPP program are to increase childhood blood lead level testing
  - Our program participants are educated about the importance of having a child tested and referred to local providers regarding testing
  - This aids in achieving the CLPPP objectives
- In the future, NvCLPPP can refer elevated blood lead level cases to the Las Vegas Lead Hazard Control and Healthy Homes Program

Questions?