

# Oregon SHINE Program

Superfund Health  
INvestigation &  
Education



# Health Consultation Recommendations

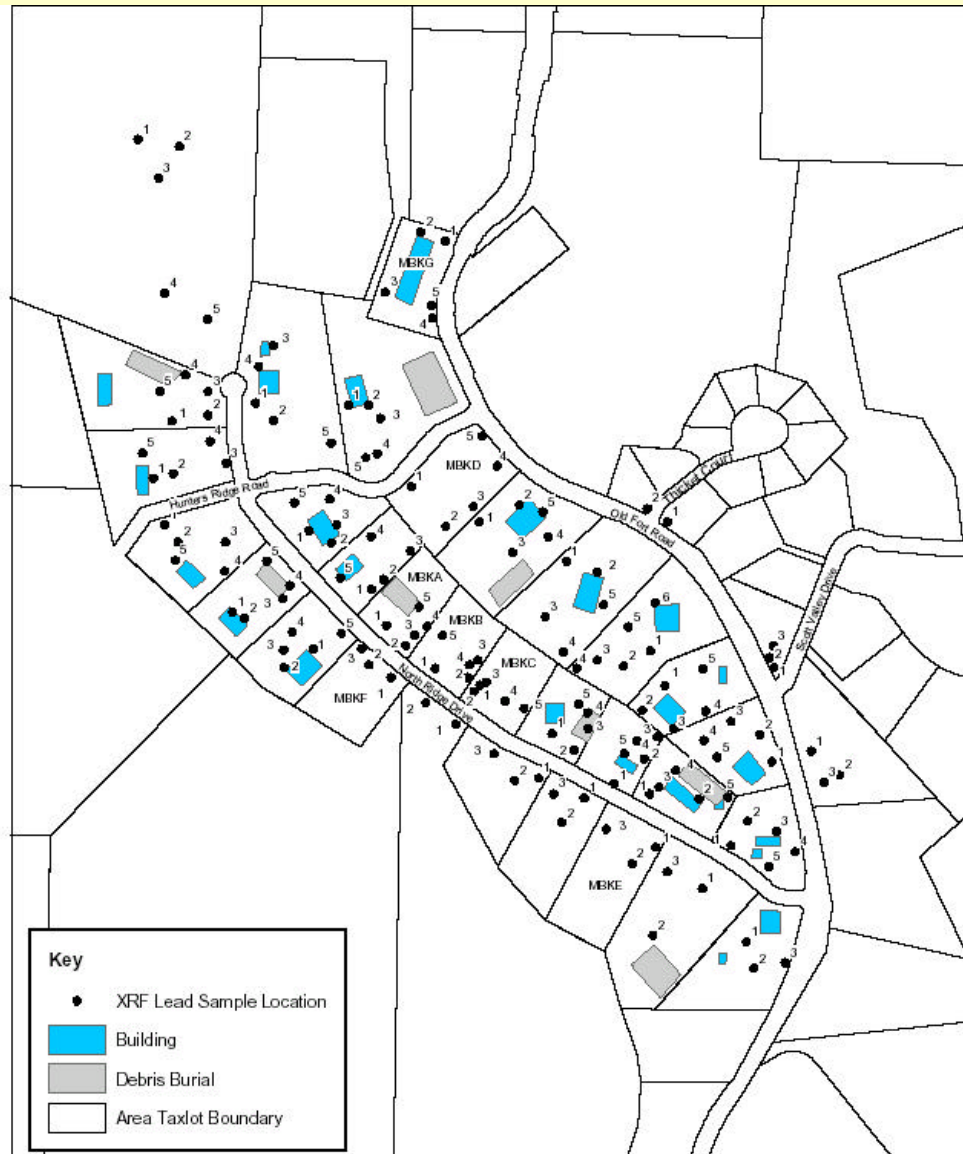
- ★ Sample soil for asbestos and lead
- ★ Monitor outdoor and indoor air
- ★ Identify extent and location of ACM
- ★ Determine locations, size, and depth of disposal sites
- ★ Determine underground locations of asbestos piping
- ★ Remedy physical hazards



# Lead-based Paint



# Lead Sampling Locations



# Sampling results at North Ridge

- 148 locations
- 74 Less than detection level
- 70 Less than 400 mg/kg
  - \* 63 Less than 200 mg/kg
  - \* 36 Less than 55 mg/kg
  - \* 7 Greater than 200 mg/kg
- 1 Greater than 400 – 1500 mg/kg

# General Range of Levels in U.S.

- Uncontaminated soil <50 mg/kg
- Besides roadways 30 to 2,000 mg/kg
- Next to smelter 60,000 mg/kg
- Next to house with lead paint >10,000 mg/kg
- Many urban areas >200 mg/kg

# Action levels

- **Bare soil** >400 mg/kg in a children's play area (swing set, digging area, etc.)
- 1200 mg/kg in **residential yard**
- **Abatement** >5000 mg/kg in bare residential soil
- **Interim controls recommended**
  - \* when soil lead levels from 400 to 5,000 mg/kg where children likely to have contact with soil
  - \* 1200-5000 mg/kg but children unlikely to have contact with soil

# Possible Remedies

- Cover bare soil with grass, gravel, mulch, clean fill
- Install barriers – fencing, thorny bushes, decks to prevent access



# Blood Lead Levels

- Available at health care provider
- Levels not expected to be elevated due to soil at North Ridge Estates(based on sampling)
- How much soil elevation causes blood lead level elevation?

# Next steps

- Additional characterization of area with elevated levels (EPA)
- If concerned – see health care provider for blood lead level testing
- Contact certified contractor for dust sampling or additional yard sampling

# Website & Contact Information

[www.healthoregon.org/superfund](http://www.healthoregon.org/superfund)

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