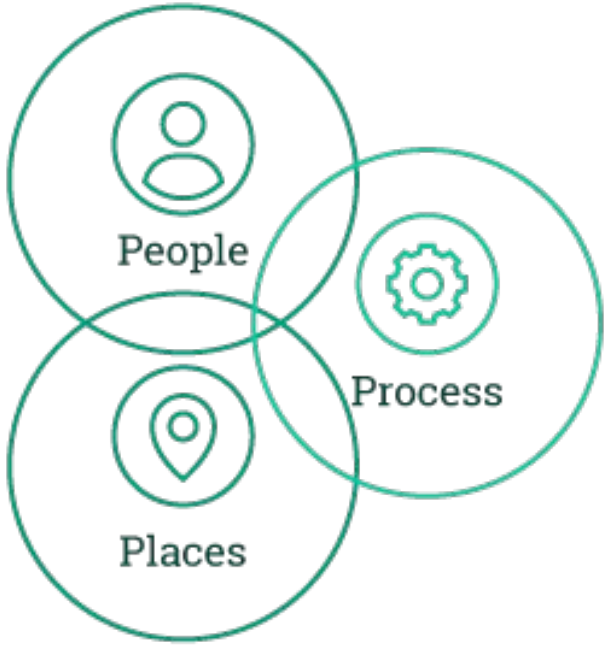
Introduction to Lead Safety

Household and Yard Lead Safety

About Grounded

Grounded works to improve the social, economic, and environmental health of distressed communities by building capacity to reclaim vacant and underutilized land.

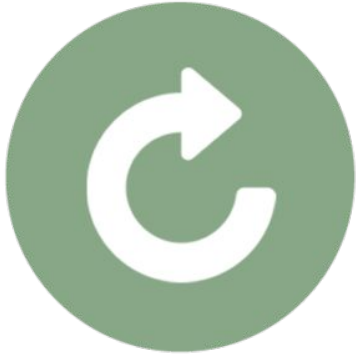
- Transforms land use liabilities into community assets.
- Develops individual capacity through education, resources, and partnership.
- Equips people to take steps towards creating clean, green, and liveable spaces and to weigh in on the systems that affect them.



Capacity-building Resources

Pgh Mobile Toolbox

Lots to Love



Refresh Fund

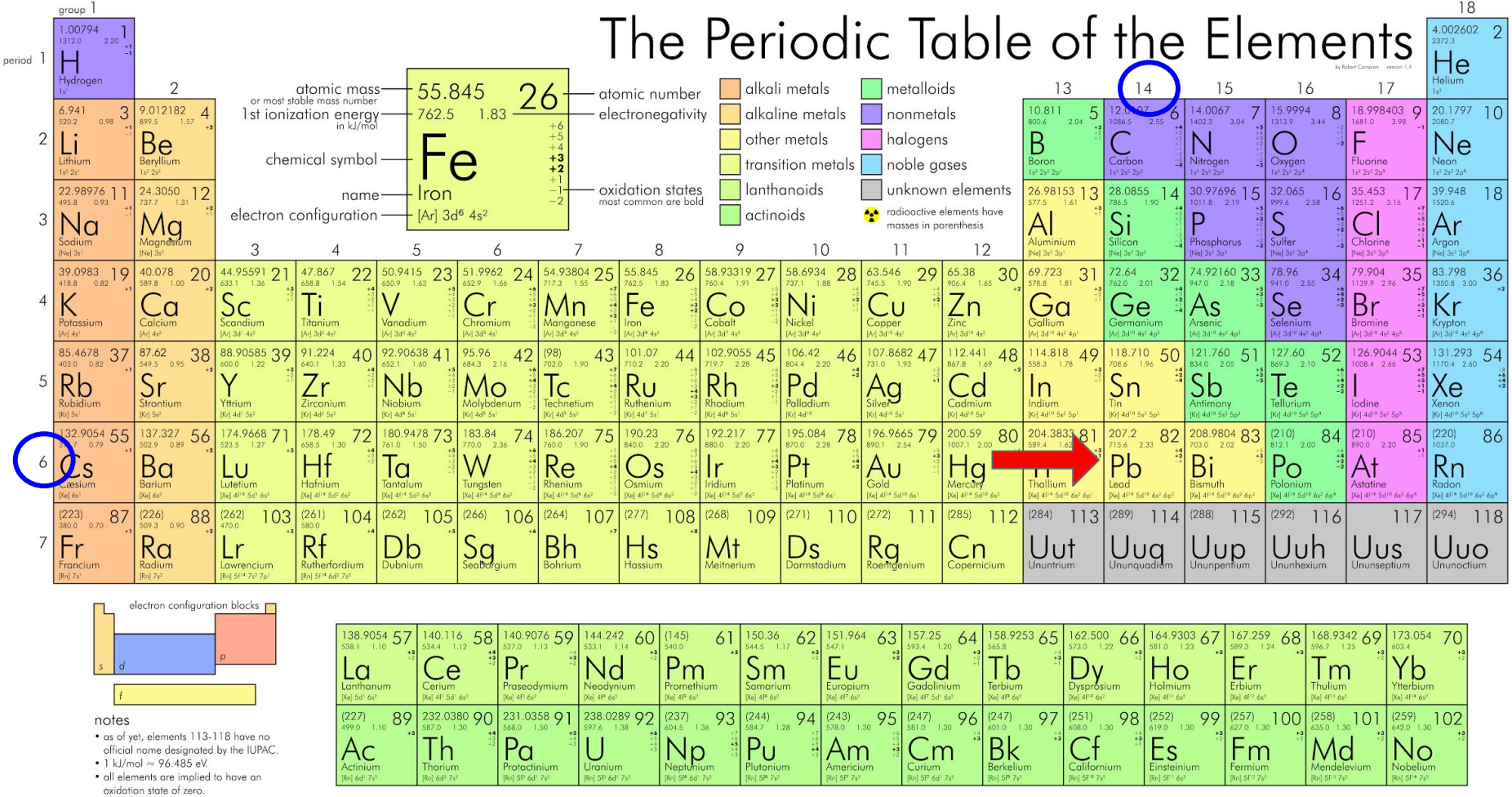
Land Doctor

Goals for This Presentation

- Understand where lead (Pb) is likely to be found in the home
- Learn signs and symptoms of Pb exposure
- Connect with resources to help you test for and remediate Pb on your property
- Gain enough knowledge about Pb on residential property to warn your neighbors of the risk!

WHAT IS LEAD?

https://www.wikihow.com/Sample/Periodic-Table

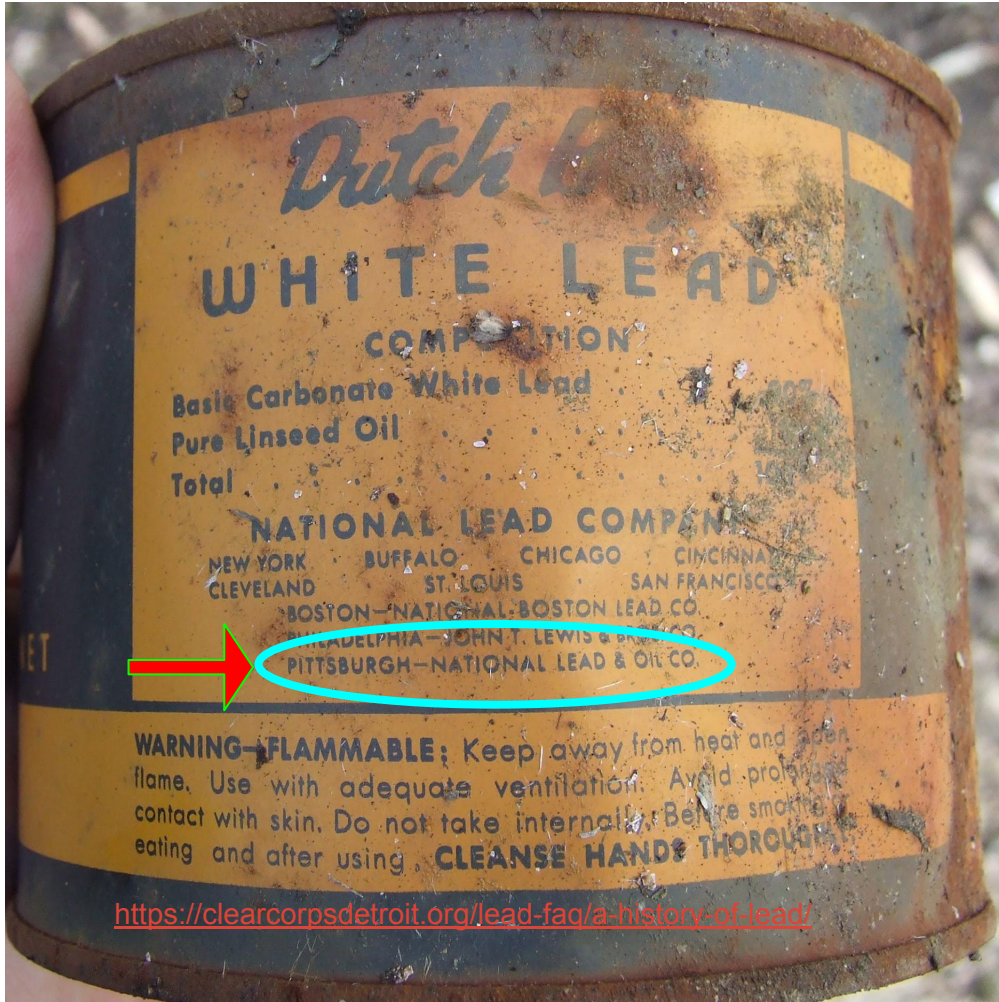


Why is Lead on my Property?

- Between the 1930s and the 1970s, Pb was commonly added to automobile fuel. It is still added to fuel for some types of aircraft. Exhaust from any of these vehicles disperses Pb into the environment.
  - Since 1996, the use of leaded gasoline for on-road vehicles has been banned in the United States.
  - Soils recovered near roads constructed before this point **STILL** (almost a quarter century later) contain elevated lead levels.

Why is Lead on my Property?

- Lead has been used as a pigment for paint since at least 400 BCE, with usage in the United States peaking between 1910 and 1930.
  - Lead was banned from use in in housing/toys in 1978, so if your residence was constructed or renovated before this date, you should definitely have your property tested.



https://clearcorpsdetroit.org/lead-faq/a-history-of-lead/

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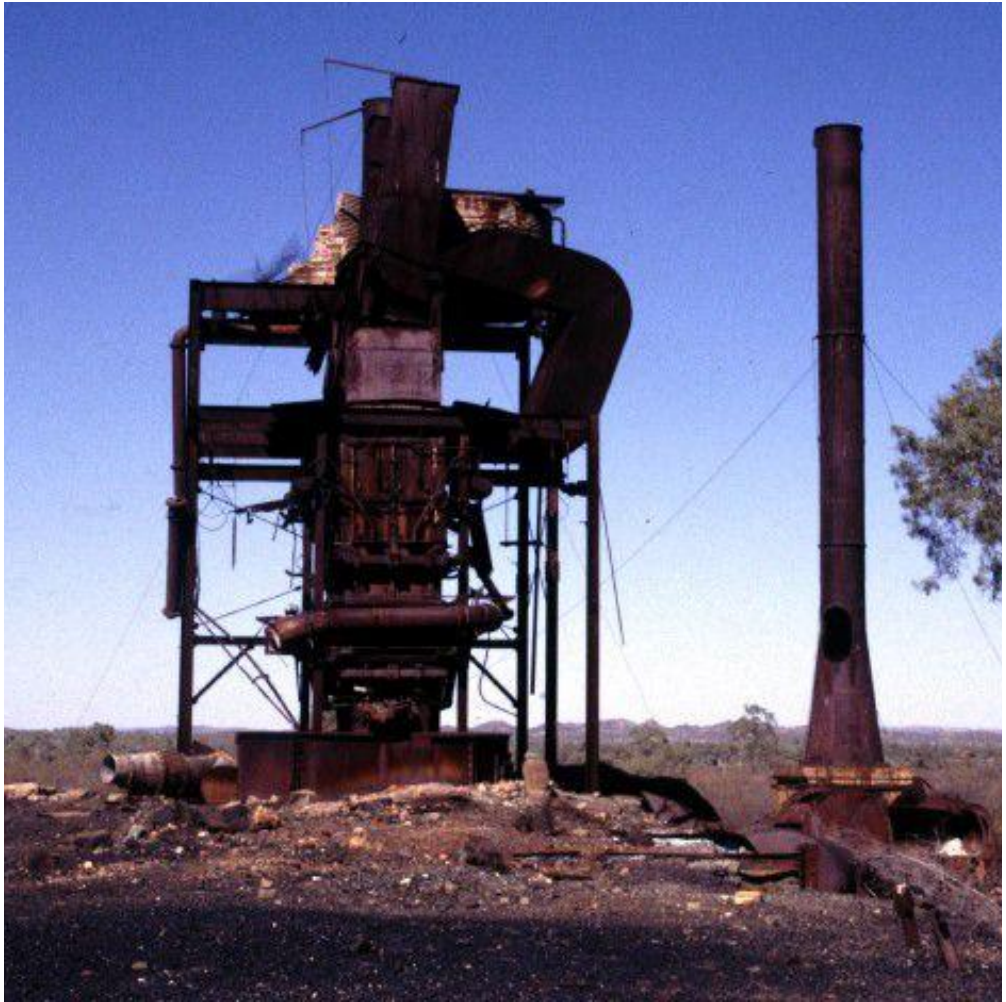
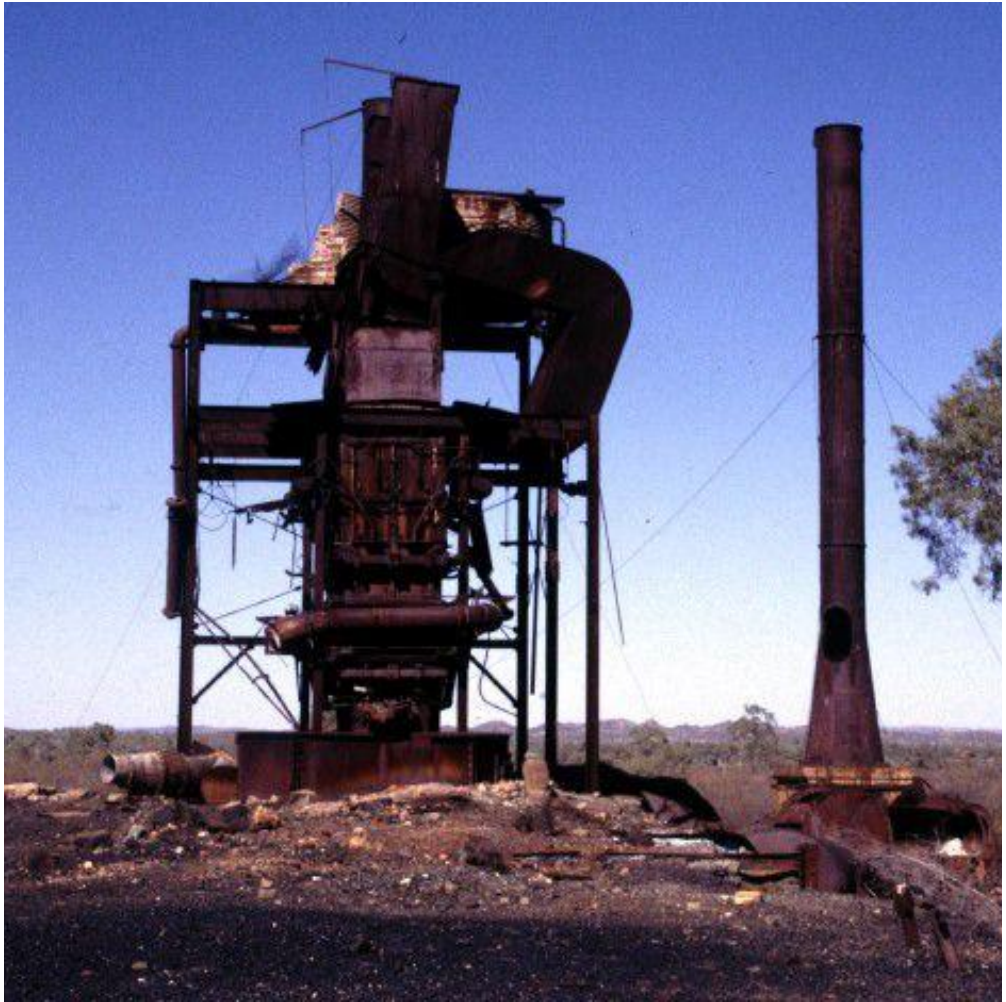


- In older industrial cities, it is not uncommon to find areas where industrial by-products (slags, etc.) have been used as fill to level a site before construction.
- Decommissioned industrial sites (like mines, smelters, refineries, and metal plating facilities) have sometimes been developed into housing or commercial developments.
  - Old firing ranges and military installations often have elevated lead levels due to Pb-based ammunition.

Why is Lead on my Property?



Historic Locations of Smelters in and around Pittsburgh PA

- 2815 SMALLMAN STREET
- 50TH & 33RD STREET
- 615 GROSS STREET
- 1247 REEDSDALE
- 3000 LIBERTY AVE
- 4314 MAIN STREET
- 100 W ELIZABETH AVE
- GLOSTER STREET AND PATH WAY
- 3116 PENN AVE

Source: USEPA List of Sites with Potential Smelting Related Operations

Why is Lead on my Property?

- Prior to 1986, lead based plumbing fixtures were freely utilized to install much of the water infrastructure in the United States.
- In 1986, lead-based plumbing was ‘banned’ for new installations (pipes up to **8% Pb** by weight were still permissible to install).
- In 2014, a new maximum (0.25% Pb by weight) was introduced for all new plumbing installations.
  - Given that the vast majority of water infrastructure was installed prior to the 1986 policy change, it is prudent to test both your water and plumbing system for lead.

http://viroqua-wisconsin.com/city-of-viroqua/departments/water-sewer/water-department/viroqua-water-system-lead/identifying-water-service-line