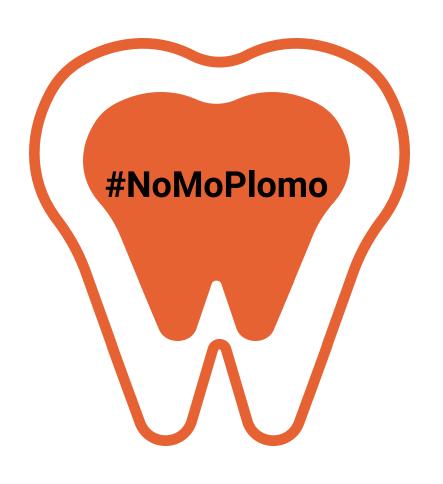




Measuring Toxic Metal Exposure: The Truth Fairy Project

Community • History • Knowledge • Health • Justice



EYCEJ and USC worked together to collect baby teeth of children who lived within a 2 mile radius of Exide.

Exide 7 million lbs.

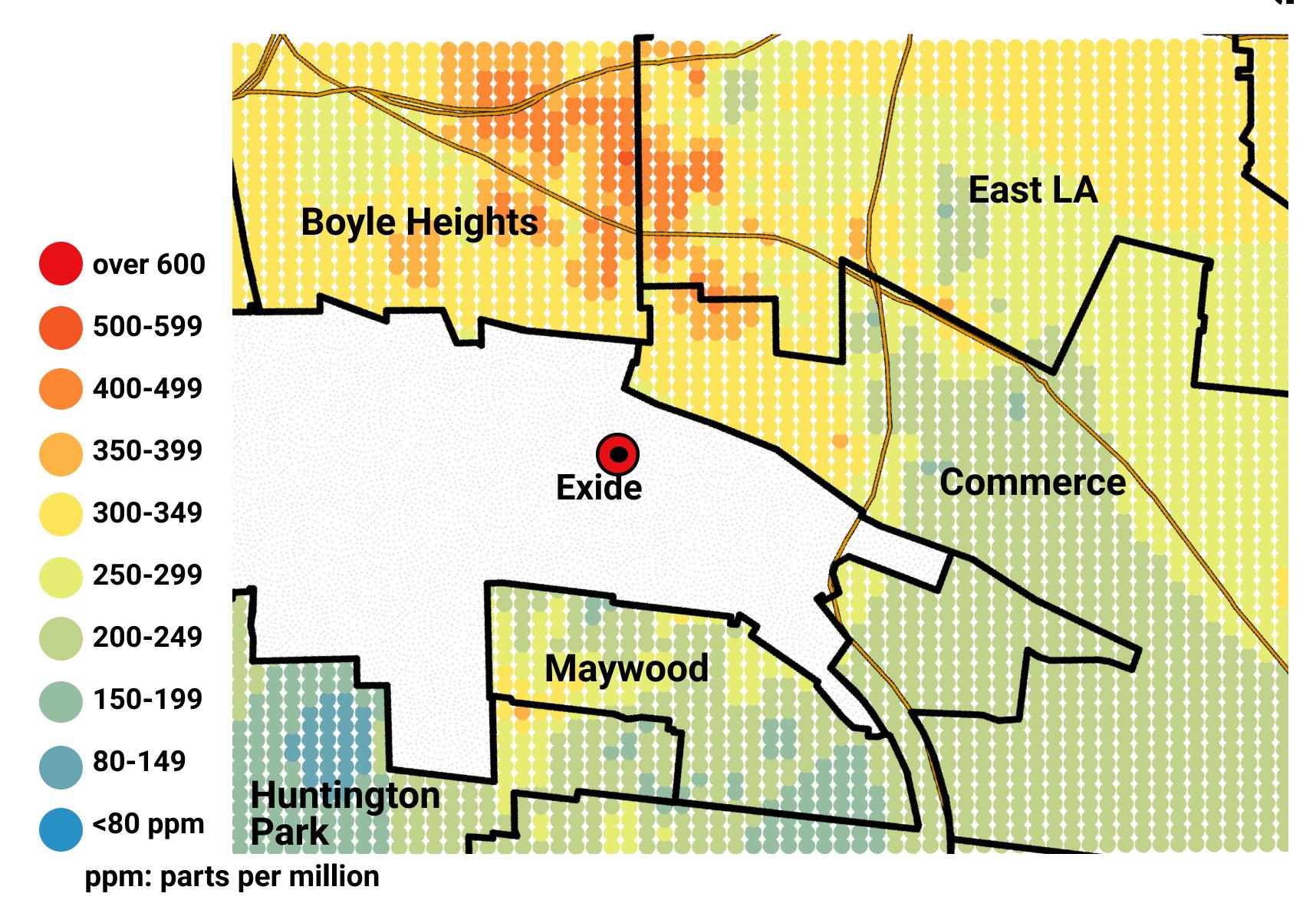
of lead that residents have been exposed to over

30 years



Teeth can provide
"windows" into
prenatal and early
childhood
exposures to toxic
metals such as
lead.

Estimated Residential Soil Lead Levels (ppm)





97%

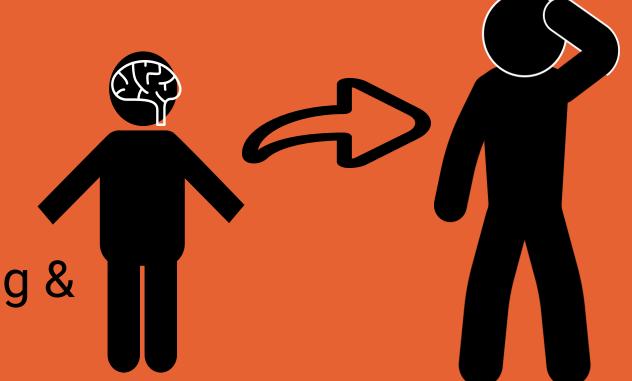
of properties tested were above the State of CA threshold of soil Lead contamination:

80ppm

Health effects of lead...

Lead exposure in childhood causes...

- Brain damage
- Decrease in IQ
- Stunted growth
- Problems with learning & behavior



Adults who were exposed to lead as children are at higher risk for...

- Headaches
- Memory loss
- High blood pressure
- Kidney disease
- Joint pain

Lead in the body * * Higher teeth Lead means higher Lead in the brain, kidney and bones.

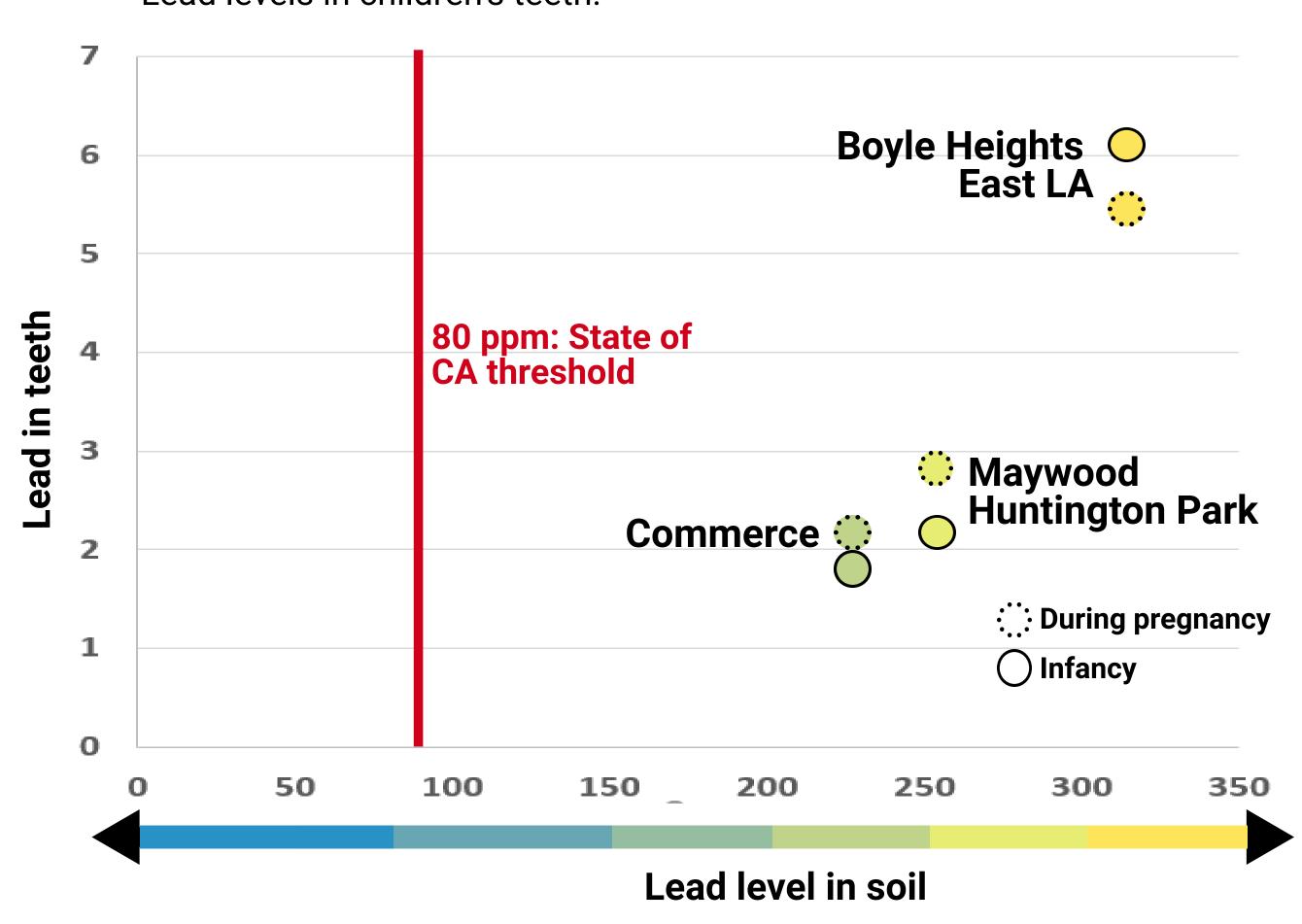


On average, neighborhoods with higher soil Lead levels, had higher teeth Lead levels.

Truth Fairy Project Findings

Lead levels in children's teeth and soil

The communities with the highest soil lead levels also found highest Lead levels in children's teeth.



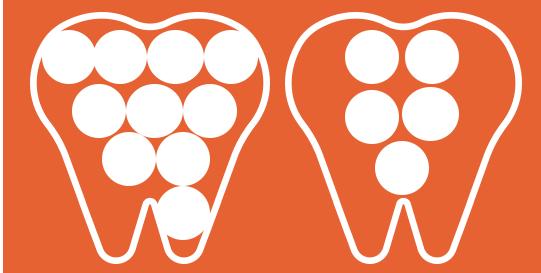
of children's

of teeth contained measurable Arsenic

Kids participated in this first phase of the study

Communities were represented in the study

Communities around Exide had twice as much Lead



in the teeth, compared to a similar urban community (Boston, MA) that did a tooth based research study.



Toxic Metals in Teeth

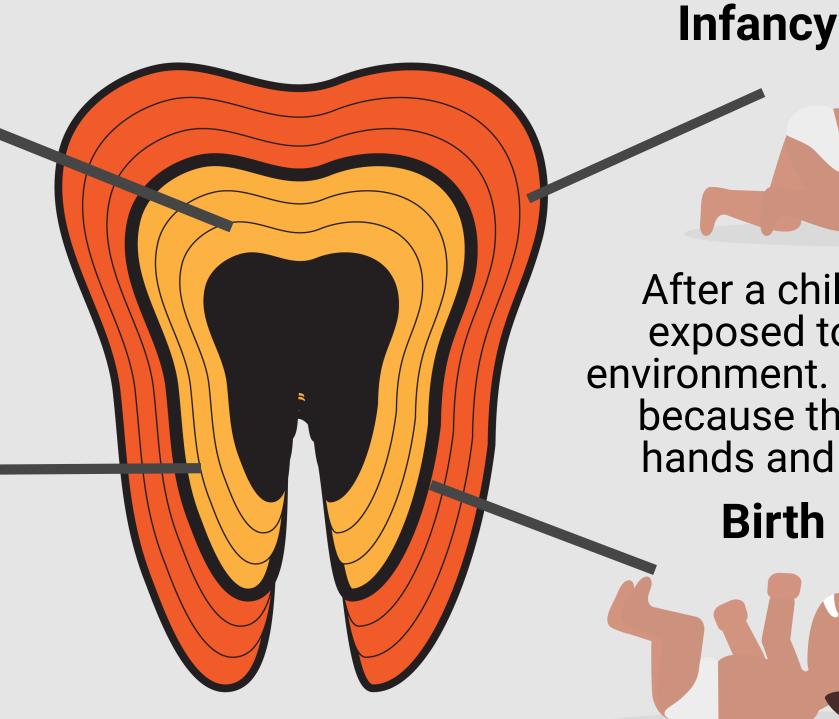
Teeth grow in rings like trees do, starting during pregnancy through early childhood.

2nd trimester

Teeth start to form in the mother's womb beginning in the 13th week of pregnancy.



The baby is growing rapidly & incorporates nutrients and toxins to which the mother is exposed.



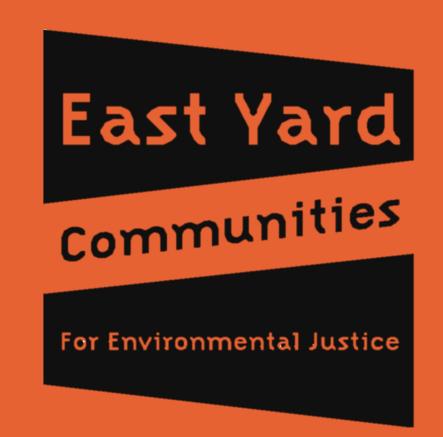
After a child is born, they can be exposed to toxic metals in their environment. Infants are at higher risk because they crawl and put their hands and toys in their mouths.

East Yard Communities for Environmental Justice (EYCEJ) is an environmental health and justice non-profit organization working towards a safe and healthy environment for communities that are disproportionately suffering the negative impacts of industrial pollution.

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Find out more



Blood lead testing

Los Angeles County, Department of Public HealthChildhood Lead Poisoning Prevention Program (800) LA-4-LEAD lead@ph.lacounty.gov

Infographic: Wendy Gutschow/USC



Environmental Health Centers









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