

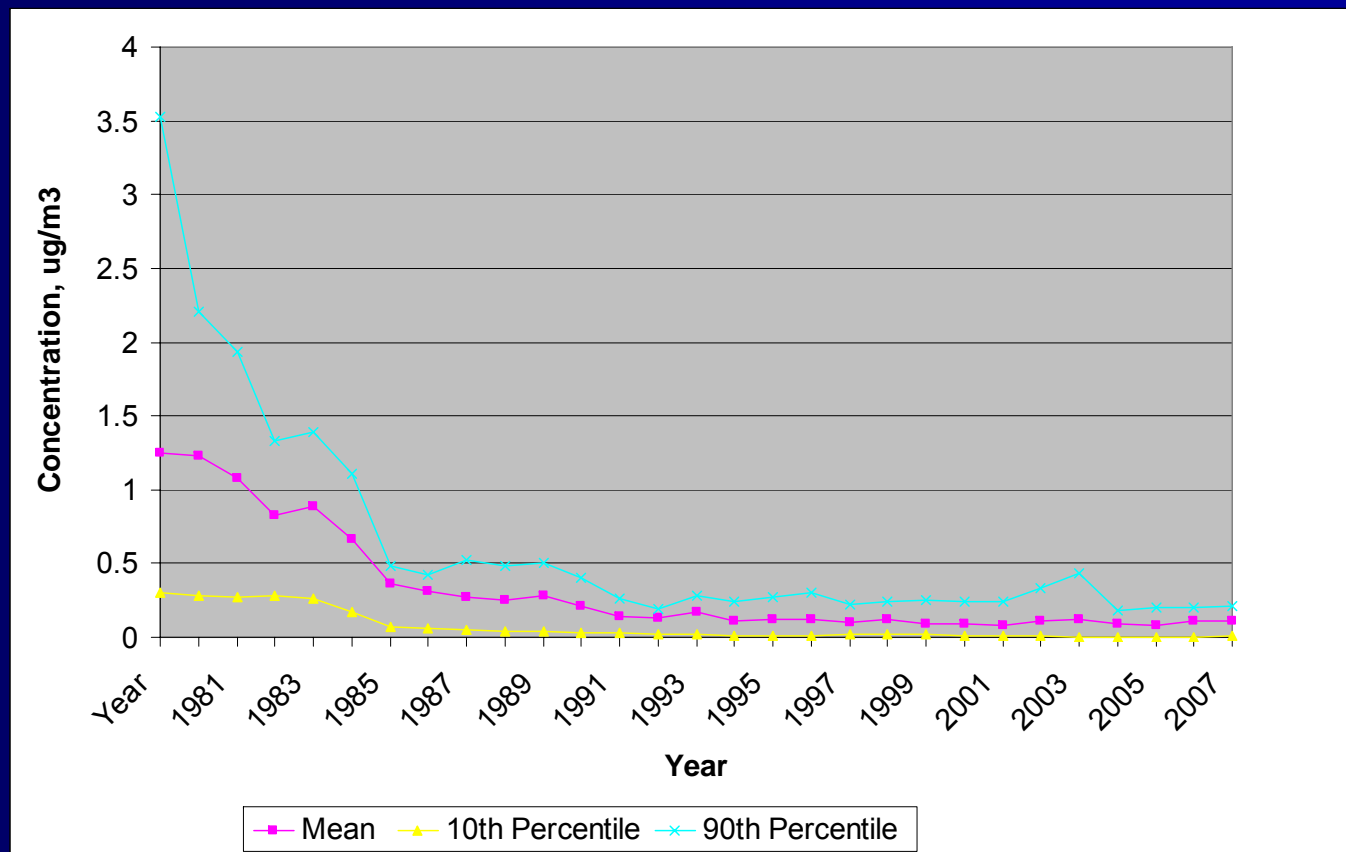
# Revised Federal Lead Standard

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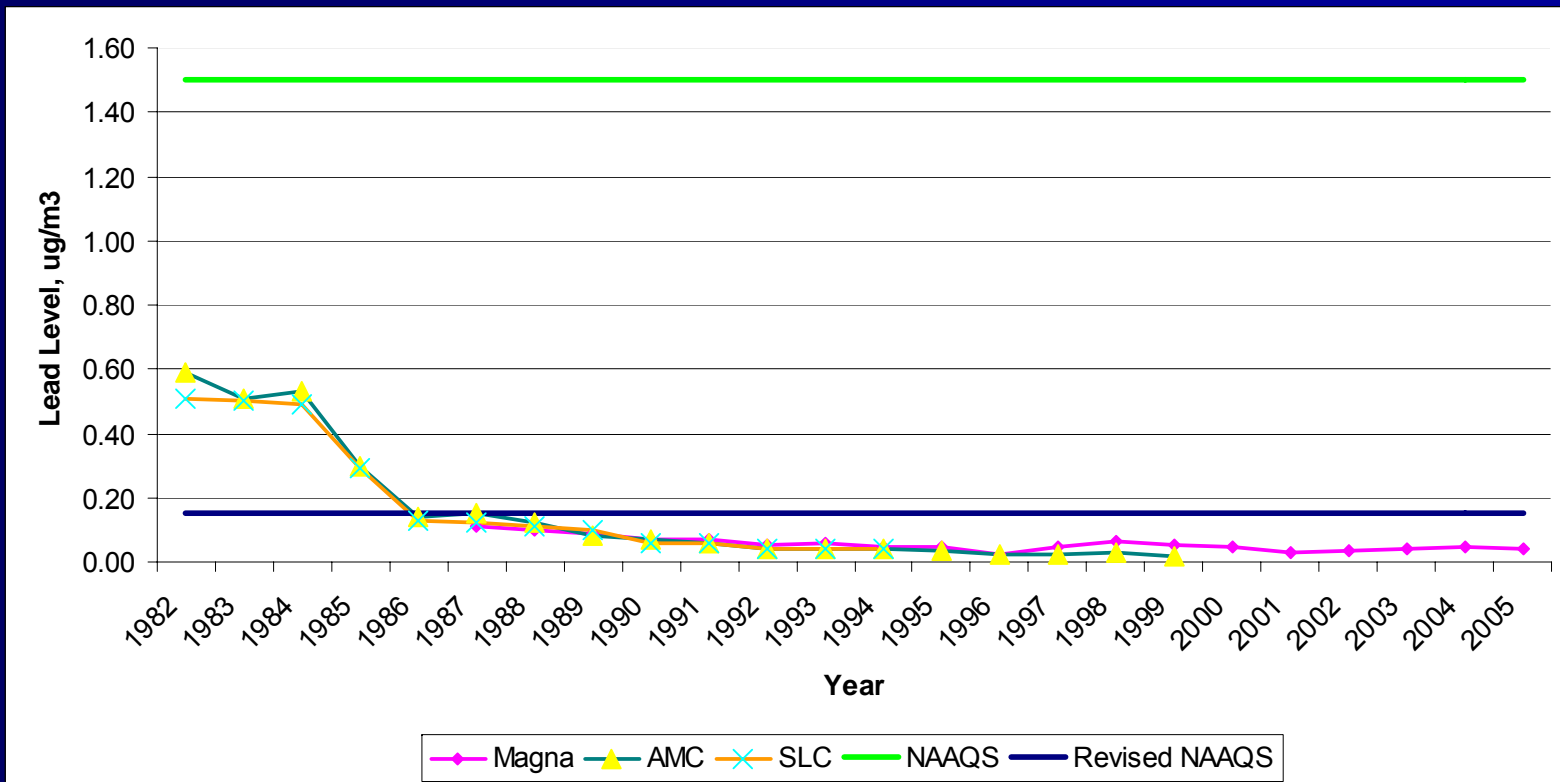
# Revised National Ambient Air Quality Standards for Lead (revised Pb NAAQS)

- ✓ Changed after 30 years
- ✓  $1.50\mu\text{g}/\text{m}^3 \rightarrow 0.15\mu\text{g}/\text{m}^3$
- ✓ New standards are more protective to public health and public welfare

# National Pb levels, 1980-2008, 23 sites, show 91% decrease



# State Pb Levels, 1982-2005, 3 sites; 97%, 92%, & 63% reduction in ambient air Pb annual mean levels at AMC, SLVHD, & Magna, respectively.



# Revised Pb NAAQS: Indicator & Monitoring Requirements

- ✓ Indicator: Pb in total suspended particles is retained (Pb-TSP).
- ✓ In limited circumstances, Pb-PM<sub>10</sub> monitors may be allowed at urban sites where
  - ◆ 1) Pb not expected to occur as large particles
  - ◆ 2) Pb concentrations are expected to be well below the standard.

# Revised Pb NAAQS: Changes to Averaging Time & Form

- ✓ Averaging Time: 3-month rolling average evaluated over 3-year period.
- ✓ Form: any 3-month average exceeding  $0.15\mu\text{g}/\text{m}^3$  within 3-year period is a violation of the NAAQS.
- ✓ More health protective than previous averaging time of calendar quarter.

# Revised Pb NAAQS requires expanded Pb monitoring network

- ✓ Source-oriented monitoring required near sources with Pb emissions  $>1$  tpy.
  - ◆ One point source identified: Rio Tinto's Kennecott smelter & refinery.
- ✓ Urban area monitoring required in core based statistical areas (CBSAs) with current population estimates  $> 500,000$ 
  - ◆ SLC, Provo-Orem, Ogden-Clearfield
- ✓ DAQ stopped Pb monitoring in Sept. 2005 because measured levels were consistently low.

# Revised Pb NAAQS Implementation

- ✓ Governor's recommendation to EPA for designations of State's areas under revised Pb NAAQS.
  - ◆ Due by Oct 15, 2009
  - ◆ Three designation options
    - 1) Attainment
    - 2) Non-Attainment
    - 3) Unclassifiable

# Revised Pb NAAQS Implementation

- ✓ Gov. Herbert's recommendation:  
All areas of Utah be designated as  
"unclassifiable."
  - ◆ Monitoring data prior to 2006  
can't be used to show attainment
  - ◆ Most recent data (1995-2005)  
clearly show attainment in urban  
and point source areas.

# Pb NAAQS Implementation: Timetable

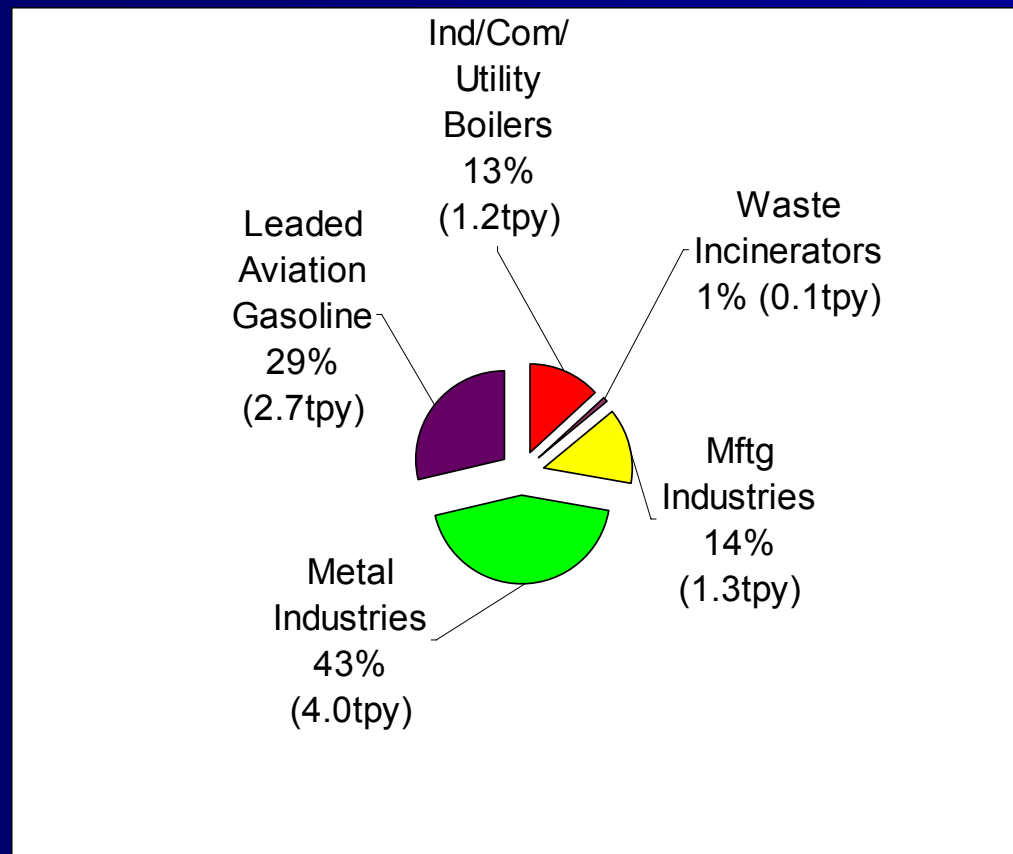
- ✓ Source oriented Pb monitoring begins by Jan 1, 2010 at Magna site
- ✓ Expanded Pb monitoring network at CBSA sites become operational by Jan 1 2011.
  - ◆ At least 1 yr of certified data collected before EPA makes final designations.

# Pb NAAQS Implementation: Timetable

- ✓ EPA issues final designations by Oct 2011 (effective date Jan 1, 2012).
- ✓ If area is designated nonattainment, then DAQ must submit SIP within 18 months. (NLT July 1, 2013)
- ✓ Attainment Date: NLT Jan 1, 2017

# Source Sectors of Pb Emissions in Utah, 2005

total: 9.3 tons



# Any Questions ?

