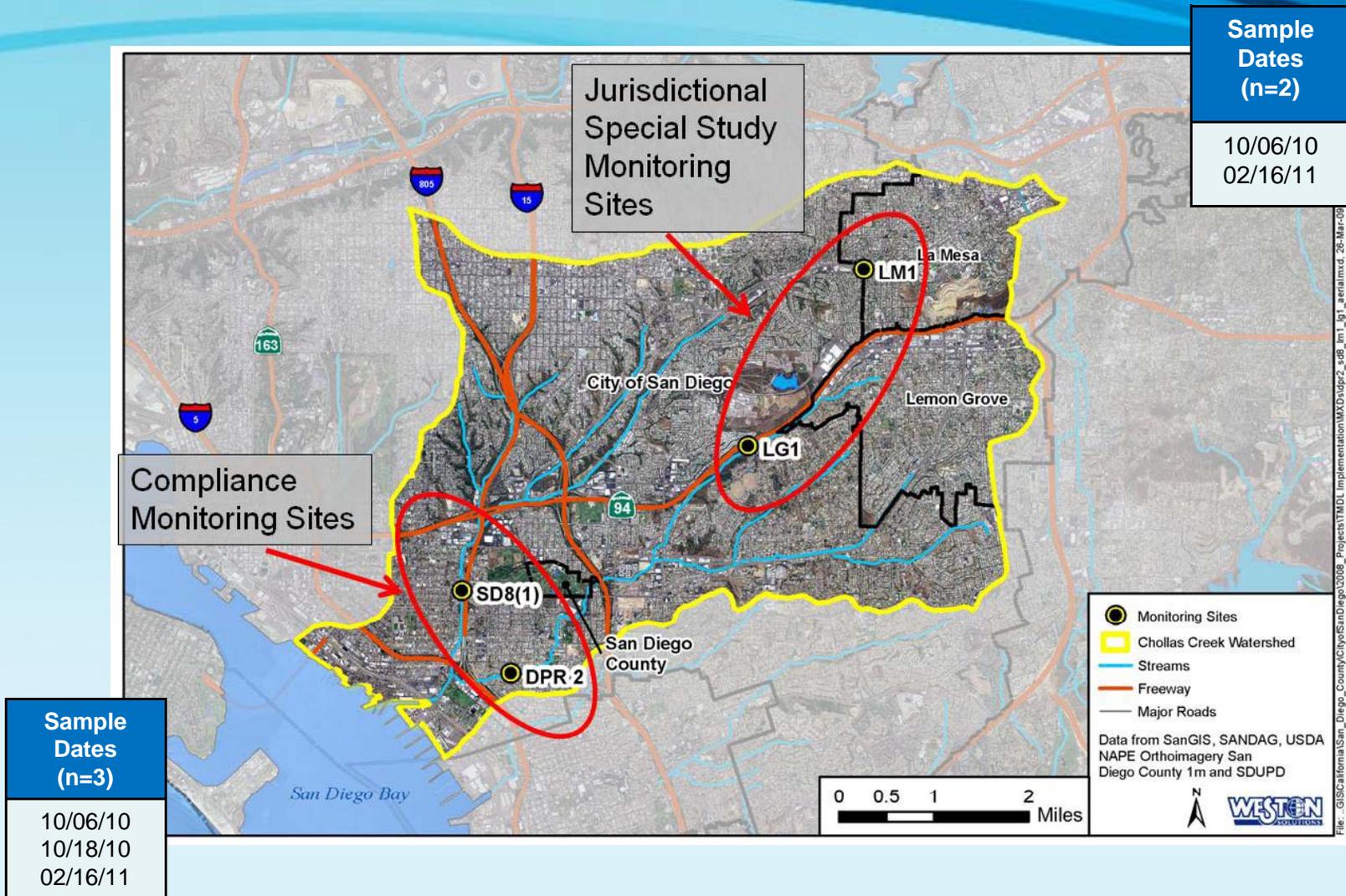


Chollas Creek TMDL Monitoring 2010-2011 Update

Ruth Kolb
City of San Diego
Transportation & Storm Water Department
June 23, 2011

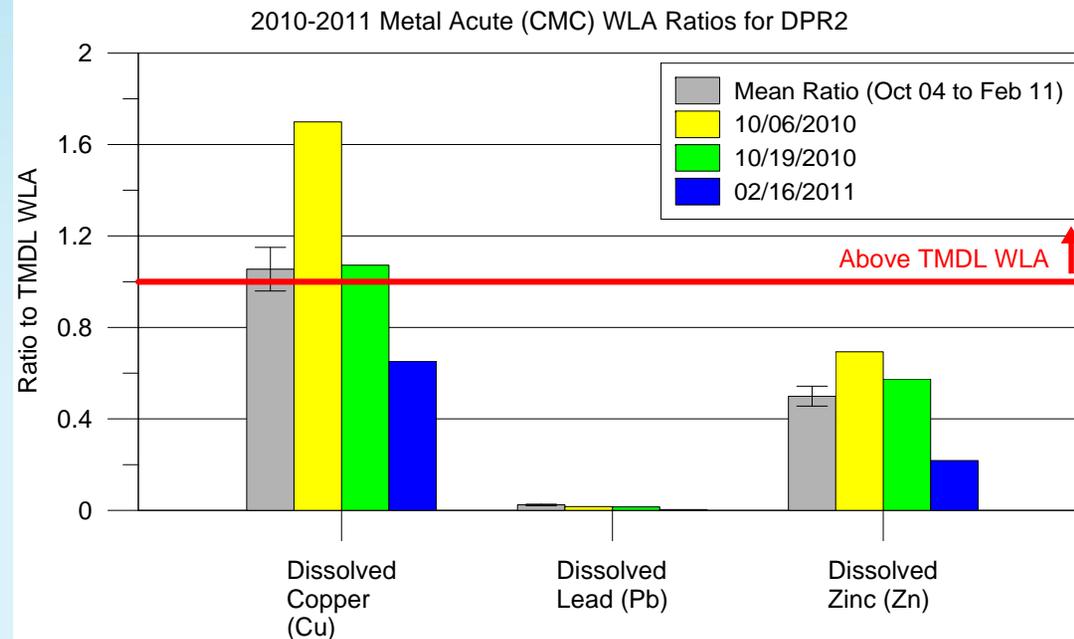
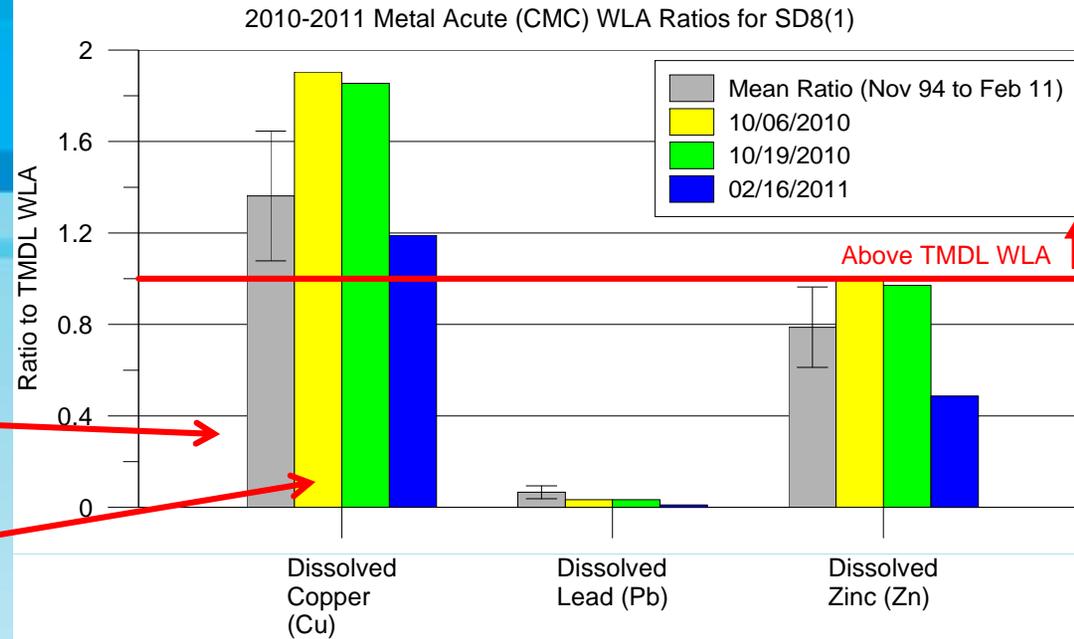
TMDL Monitoring 2010-2011



Acute Waste Load Allocation Comparison

Grey Bar is Historical Average

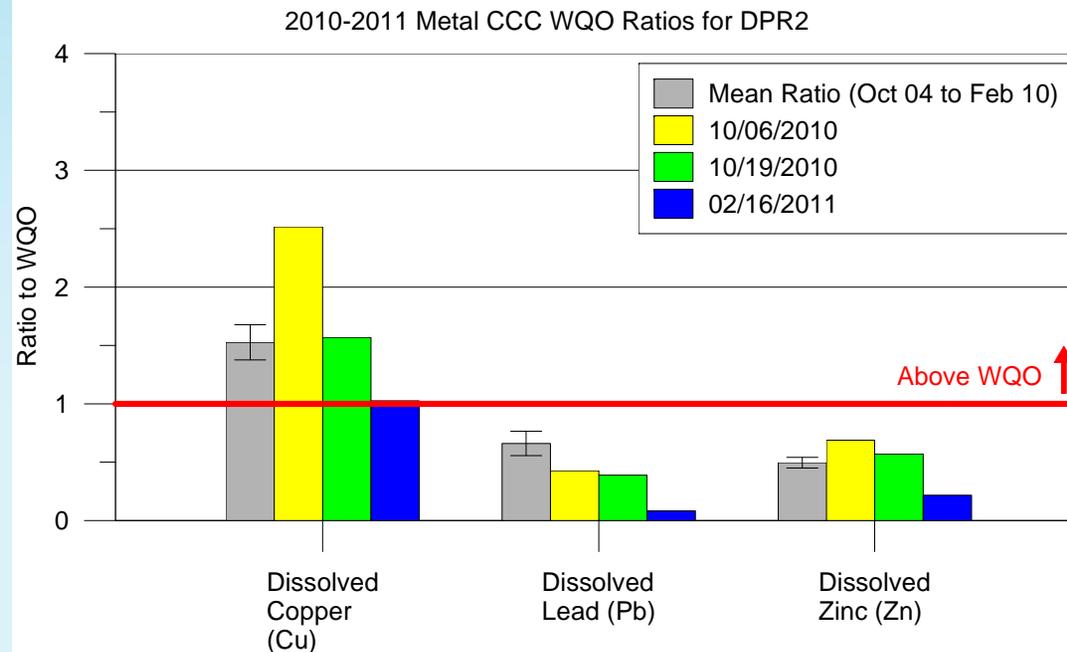
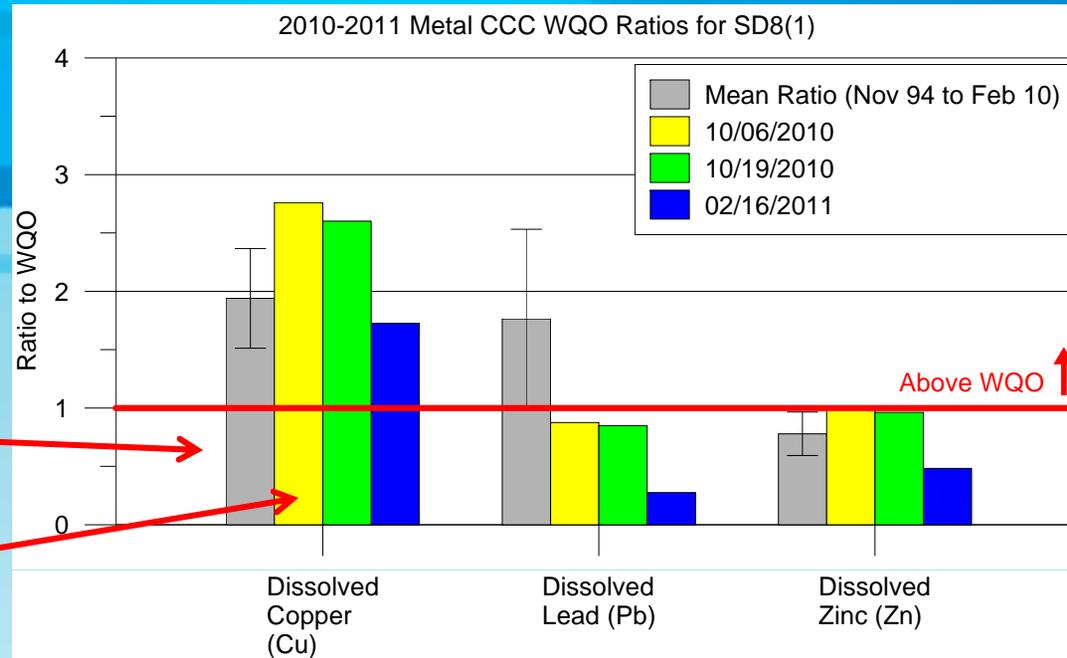
Colored Bars are results from three storms in 2010-2011



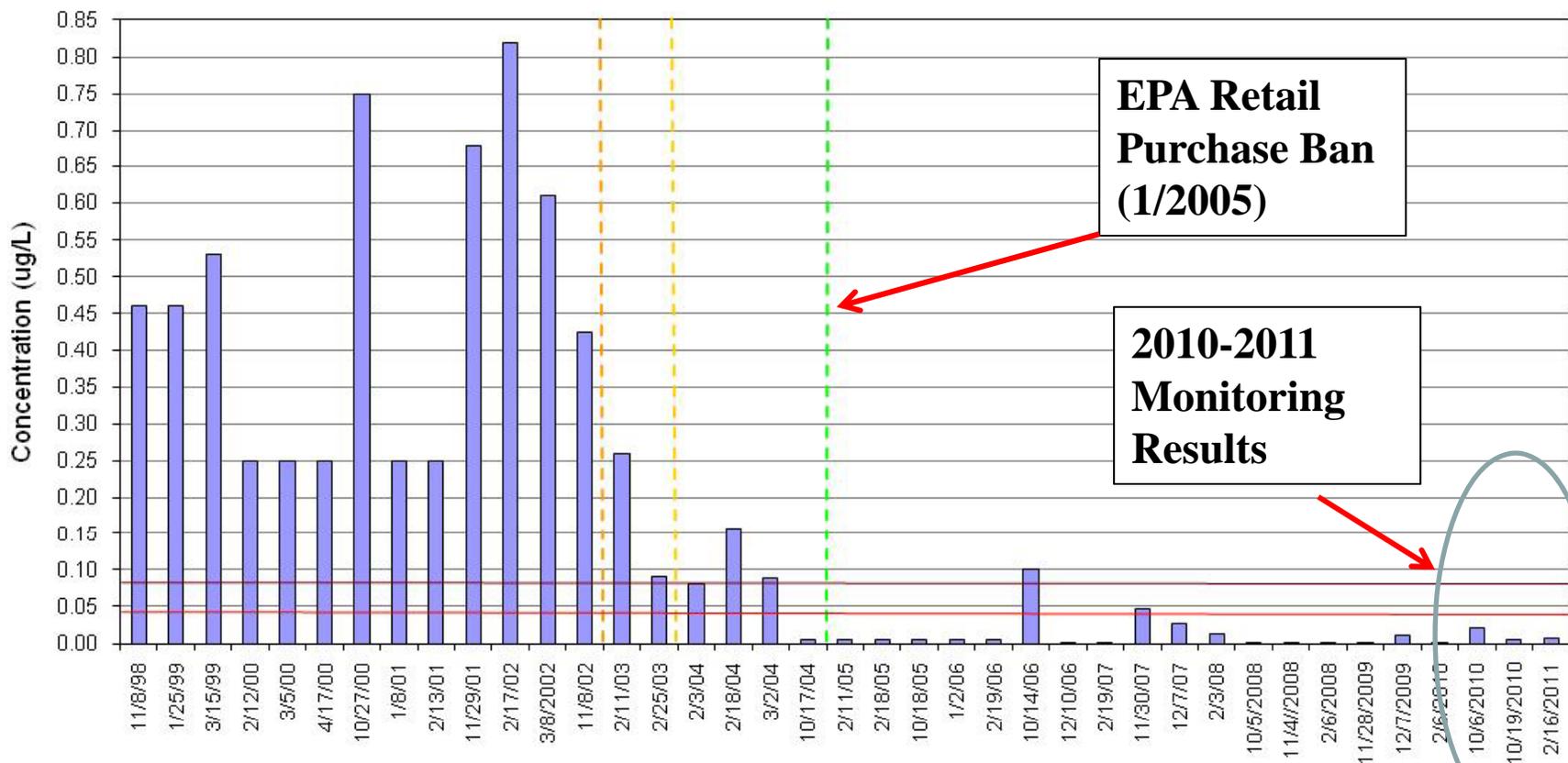
Chronic Waste Load Allocation Comparison

Grey Bar is
Historical
Average

Colored
Bars are
results from
three storms
in 2010-
2011



Diazinon (ug/L) Monitoring Results at Chollas Creek Site SD8(1) and EPA Restriction Dates



Legend

- Diazinon WQO and Acute WLA (0.08 and 0.072 ug/l)
- Diazinon Chronic WLA (0.045 ug/l)
- Retail Sales for indoor use ends (12/2002)
- Diazinon manufacturing stops; retail sales for lawn/garden care ends (8/2003)
- Diazinon is no longer available for purchase (1/2005)

Monitoring Results Summary

- **Copper - above WLA**
- **Lead - below WLA**
- **Zinc - above the WLA one site; Zinc has historically been below the WLA at the other site**
- **Diazinon below TMDL WLA**

Results were generally below copper, lead, and zinc WLAs when applying newly developed site-specific criteria from the “WER” study

Water Effects Ratio Study- Background

- **TMDL uses default value; no site specific objectives had been developed**
- **EPA recognizes default value may be more or less protective than necessary**
- **EPA Criteria allows for WER Development resulting in site specific objectives**
- **City of San Diego conducted a WER study to develop site these specific objectives for Chollas Creek**
- **WER study involves testing to see what amount of metals are protective of the environment in the watershed**

Chollas Creek Water-Effect Ratio – Special Study Results

- **Conservative WER results are recommended for adoption**
 - Copper = 4.64
 - Zinc = 1.40
 - Lead criteria was based on recalculation with revised EPA data.
- **WER corroborated through Biotic Ligand Model**

Chollas Creek Water-Effect Ratio – Special Study (Continued)

- **Third party peer review performed**
- **Delivery to Regional Board**