

The background features abstract, overlapping green geometric shapes, primarily triangles and polygons, in various shades of green. These shapes are positioned on the left and right sides of the slide, framing the central text. The central area is white, providing a high-contrast background for the text.

Spokane DO TMDL Advisory Committee Meeting

March 2, 2017

CE-QUAL-W2 Model Follow-up



Boundary Conditions

- ▶ See hand out
- ▶ Questions?



FERC flows

- ▶ Included as a Source Assessment Scenario in 2009¹
- ▶ Simulated outflows from Post Falls Dam did not drop below 600 cfs between June 7 and Labor Day.
 - ▶ All other conditions were unchanged from the TMDL #1 Scenario

¹ Water Quality Research Group, (2010) “Spokane River Modeling Scenarios Report 2009,” Technical Report EWR-04-09, Department of Civil and Environmental Engineering, Portland State University, Portland, OR, 36 pages.

http://www.ecy.wa.gov/programs/wq/tmdl/spokaneriver/dissolved_oxygen/modelinfo.html

NPDES Permit Update



Literature Review Scope of Work / Monitoring Work Group Meeting



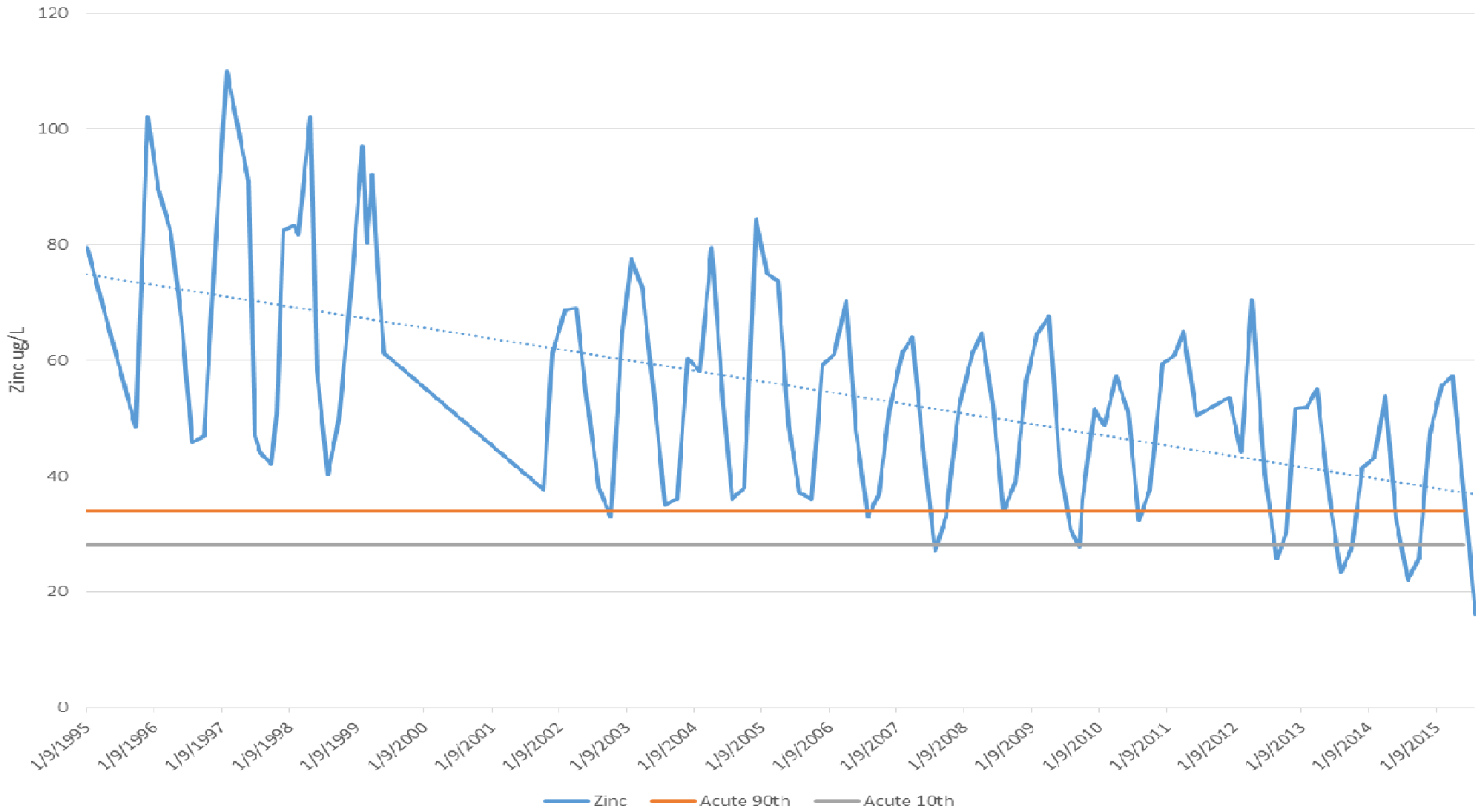
Zinc Inhibition



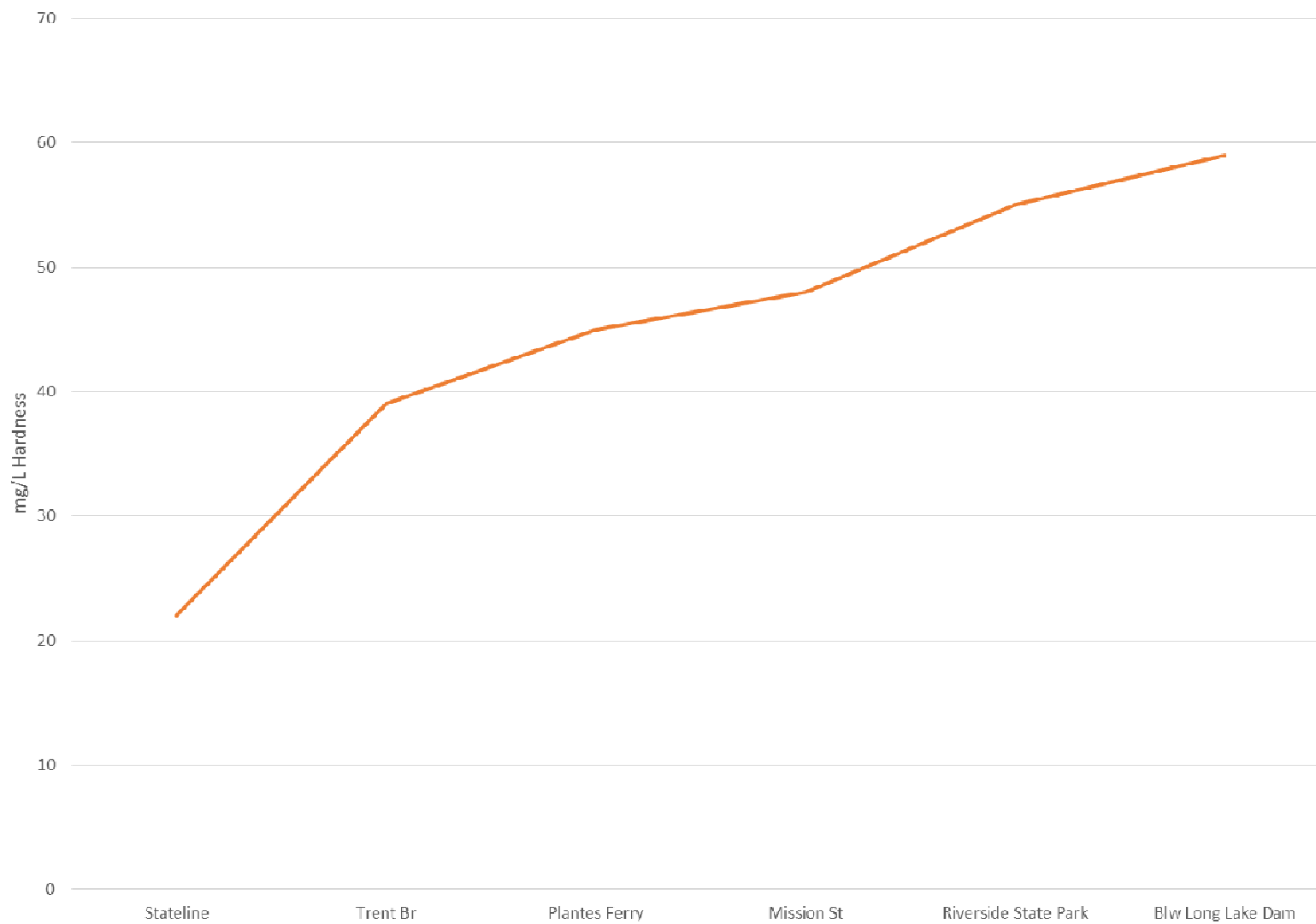
Zinc freshwater criteria for Washington

Acute (CMC)	$0.978e^{0.8473[\ln(\text{hardness})]+0.8604}$
Chronic (CCC)	$0.986e^{0.8473[\ln(\text{hardness})]+0.7614}$

Zinc @ Stateline



Spokane River Average Hardness



June 2010 conditions

Stateline			9 Mile		
Zinc	Hardness	Acute	Zinc	Hardness	Acute
47	21	31	45	35	47

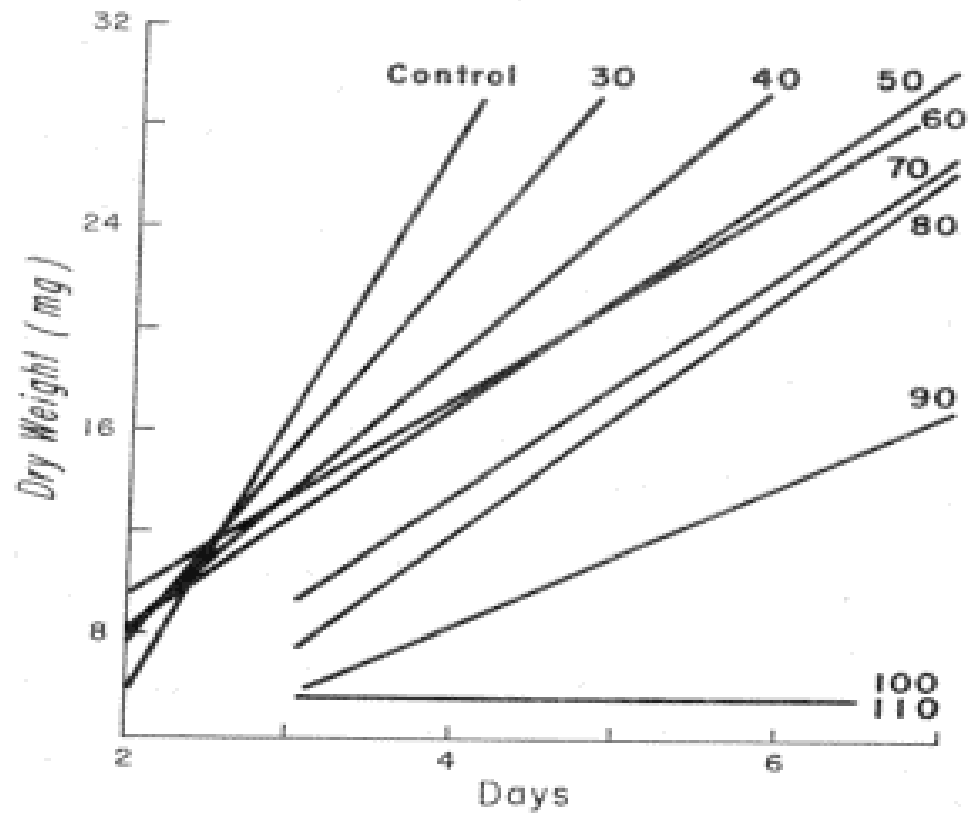


Figure 36. Growth Rates of *Selenastrum capricornutum* Treated With Zinc ($\mu\text{g/l}$). (Bartlett et al., 1973.)

Biennial Report

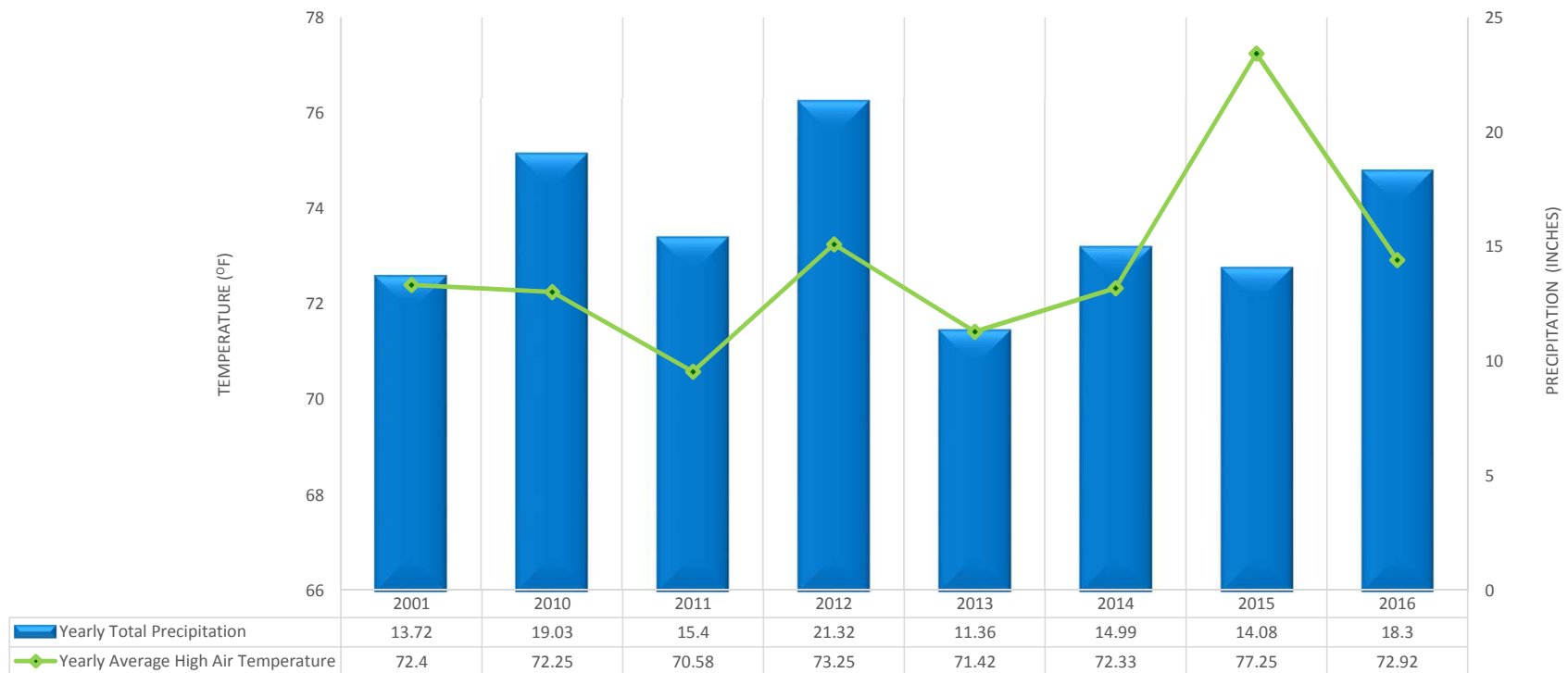


Biennial Report

- ▶ Separate report for 2015 & 2016, correct?
- ▶ Do we keep the Regional Activities section? (Were there any?)
- ▶ Funding Section
 - ▶ Do we include this section again?
 - ▶ Grants & loans from Ecology for Fiscal Years 2015-2017 = \$352,461,280
 - ▶ Need to dig deeper to see which funding was activated in 2015 & 2016 (think I need to exclude FY 2017)
 - ▶ Not sure this amount includes grant match from recipients

Annual Precipitation & Air Temp Data from the Spokane Airport

ANNUAL TOTAL PRECIPITATION & AVERAGE HIGH AIR TEMPERATURE



Open Q & A



Nine Mile
Dam
2/10/17

looking up
river



Hangman Creek 2/17/17

downstream
of Qualchan
Golf Course
(near
confluence
with
Marshall Cr)



Deep Creek 2/23/17



Looking up Deep Creek



Confluence w/ Spokane River

Potential Revisions to Water Quality's Funding Rule

Chapter 173-98 WAC (CWSRF) & Chapter 173-95A WAC (Centennial)

- ▶ Process

- ▶ Collect feedback from established advisory group (Financial Assistance Council) and the Program's grant and loan staff
- ▶ Hoping to have draft rule language out in April
- ▶ Goal is to have final rule language this summer

- ▶ Potential opportunity to include in the rule:

Funding nonpoint source projects with the State Revolving Fund
Submit comments during public comment period

Action Items, Annual Meeting, & SRF Conference

