



# 2015-2016 Biennial Report

What information do we want to repeat, update & add?

# 2010-2014 Table of Contents

1. Introduction (background & goals from TMDL)
2. Tributary TMDLs
3. Regional Activities
4. Nonpoint Source Activities
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7. Monitoring\*
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9. Progress Report\*
10. Future Outlook\*

\* We will discuss these in more depth



# Monitoring

- Monitoring Activities
  - Entities performing the monitoring\*
  - Monitoring locations\*
- Temperature, Precipitation, and Flow Data
- Data\* Observations
  - Lake Coeur d'Alene
  - Spokane River (ID & WA)
  - Tributaries
  - Riverine Assessment Point
  - Lake Spokane
  - Groundwater
- Monitoring Recommendations

\* More information on following slides



# Groups Monitoring Water Quality

- IDEQ
- Coeur d'Alene Tribe
- City of Coeur d'Alene
- USGS
- Hayden Area Regional Sewer Board
- City of Post Falls
- Ecology
- Liberty Lake Sewer & Water District
- Kaiser Aluminum
- Inland Empire Paper
- Spokane County
- City of Spokane
- Avista

# 2010-2014 Monitoring Locations

- ▶ Lake Coeur d'Alene
- ▶ Spokane River
  - ▶ Downstream of Lake Coeur d'Alene outlet
  - ▶ Near Post Falls
  - ▶ Stateline Bridge
  - ▶ Sullivan Road
  - ▶ Plante's Ferry Park
  - ▶ Sandifer Bridge
  - ▶ Fort Wright Bridge
  - ▶ Riverside State Park
  - ▶ Nine Mile Bridge
  - ▶ @ Lake Spokane
- ▶ CSO
  - ▶ Basin 6
  - ▶ Basin 34
- ▶ Stormwater:
  - ▶ Cochran Basin
  - ▶ Washington Basin
- ▶ Lake Spokane (6 stations)
- ▶ Tributaries
  - ▶ Little Spokane River near mouth
  - ▶ Hangman Creek @ mouth
  - ▶ Deep Creek @ Garfield Rd Bridge
  - ▶ Coulee Creek @ N Brooks Rd
- ▶ Groundwater
  - ▶ City of Spokane wells
  - ▶ Spokane County wells

# Monitoring Data Observations

## Spokane River

- Total phosphorus
- Ortho phosphorus

## Lake Spokane

- Dissolved Oxygen
  - Volume-weighted hypolimnetic concentrations
  - Mean epilimnetic concentrations
- epilimnion Total Phosphorus
- Chlorophyll-a

## Groundwater

- Nitrate
- Total Phosphorus



# Progress Report



1. Water Quality of the Spokane River and Lake Spokane
  - ▶ summary of data observation section
2. TMDL Allocations
  - ▶ Compliance with wasteload allocations
  - ▶ Compliance with load allocations
3. TMDL Goals and Objectives
  - ▶ Comparisons with 5- 10- and 15- year goals
4. Nonpoint Source Phosphorus Reduction Plan
5. Summary of Progress



# Future Outlook

- ▶ Nonpoint Sources
- ▶ Point Sources
- ▶ Adaptive Management
  - ▶ Used Language from the TMDL
- ▶ Ten Year Assessment
  - ▶ Used Language from the TMDL
- ▶ 2020 TMDL Goals
  - ▶ Discussion of where we are in relation to these goals