

# Implementation of the Spokane River DO TMDL with the water- quality permits

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A stylized silhouette of a mountain range in shades of teal, located in the bottom right corner of the slide.

# The Permits – WHO are they for?

Now

- Liberty Lake Sewer & Water District
- Inland Empire Paper
- Kaiser Aluminum
- City of Spokane Water Reclamation Facility

Future - 2008?

- Spokane County Regional RWF

# The Permit – What is it?

Authorization to discharge—  
WITH CONDITIONS

# Permit Conditions

- ◆ Phosphorus
  - The Foundational Concepts
  - Implement the DO TMDL
- ◆ Other pollutants & conditions

# Foundational Concepts

- ◆ Interim treatment target
  - 50 micrograms per liter TP seasonal average April 1 to October 30.
- ◆ Final treatment target
  - WWTP TP – Delta = 10 micrograms per liter TP

TP is total phosphorus

micrograms per liter is 1 part in 1 billion

1 drop of water in an Olympic-sized swimming pool

1 blade of grass on a football field

# What makes the DELTA?

(The difference between 10 and 50)

reuse,

conservation,

septic tank elimination,

agricultural Best Management  
Practices &

stormwater controls

# Compliance Schedule derived from commitment to a 10 year assessment

Submit Engineering Report and Delta  
Elimination Plan\*

Design & construct improvements

\* Includes reuse, conservation, septic tank elimination,  
agricultural BMPs & storm water controls

# Foundational Concepts

## Delta Elimination Plan

- ◆ Submit annual update
- ◆ Establish a database of phosphorus removed like a bank account - credits and debits
- ◆ Report on success and failures, lessons learned

# DELTA ELIMINATION PLAN REUSE

- ◆ Communicate expectations for reuse
  - Short term – small demonstration projects
  - Long term implementation
    - ◆ Monitoring and report to Ecology and DOH
    - ◆ Conditions of operation

# Other Limitations

- ◆ Biochemical Oxygen Demand
- ◆ Total Suspended Solids (particulate matter)
- ◆ Ammonia
- ◆ Chlorine
- ◆ Bacteria
- ◆ Metals
- ◆ Monitoring for future TMDLs
  - PCBs
  - Dioxins and Furans (2,3,7,8, TCDDs )
  - polybrominated diphenyl ethers (PBDE)

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