


# Data Management and Performance Measures

Documenting Environmental  
Results in Indian Country



# Why Do We Want to Improve Water Quality?

- Maintain the natural habitat for wildlife, native plants, and for those in your community
  - Support the designated uses of that waterbody (fishable, swimmable, etc)
  - Protect and maintain the cultural significance
  - Protect drinking water (health concern)
  - Esthetically pleasing
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- The background of the slide features several concentric, light blue circular ripples that resemble water droplets or raindrops hitting a surface, set against a dark blue gradient background.

# Environmental Results

- Projects that are funded with federal dollars are producing positive environmental outcomes
  - Tribal guidance released in 2007 set forth new requirements for the CWA § 106 Tribal program
    - Assist tribes collect critical data and information for effective management of their water quality programs
    - Help EPA comply with the Government Performance and Results Act (GPRA)

# EPA Performance Measures

## ➤ **WQ 6a:**

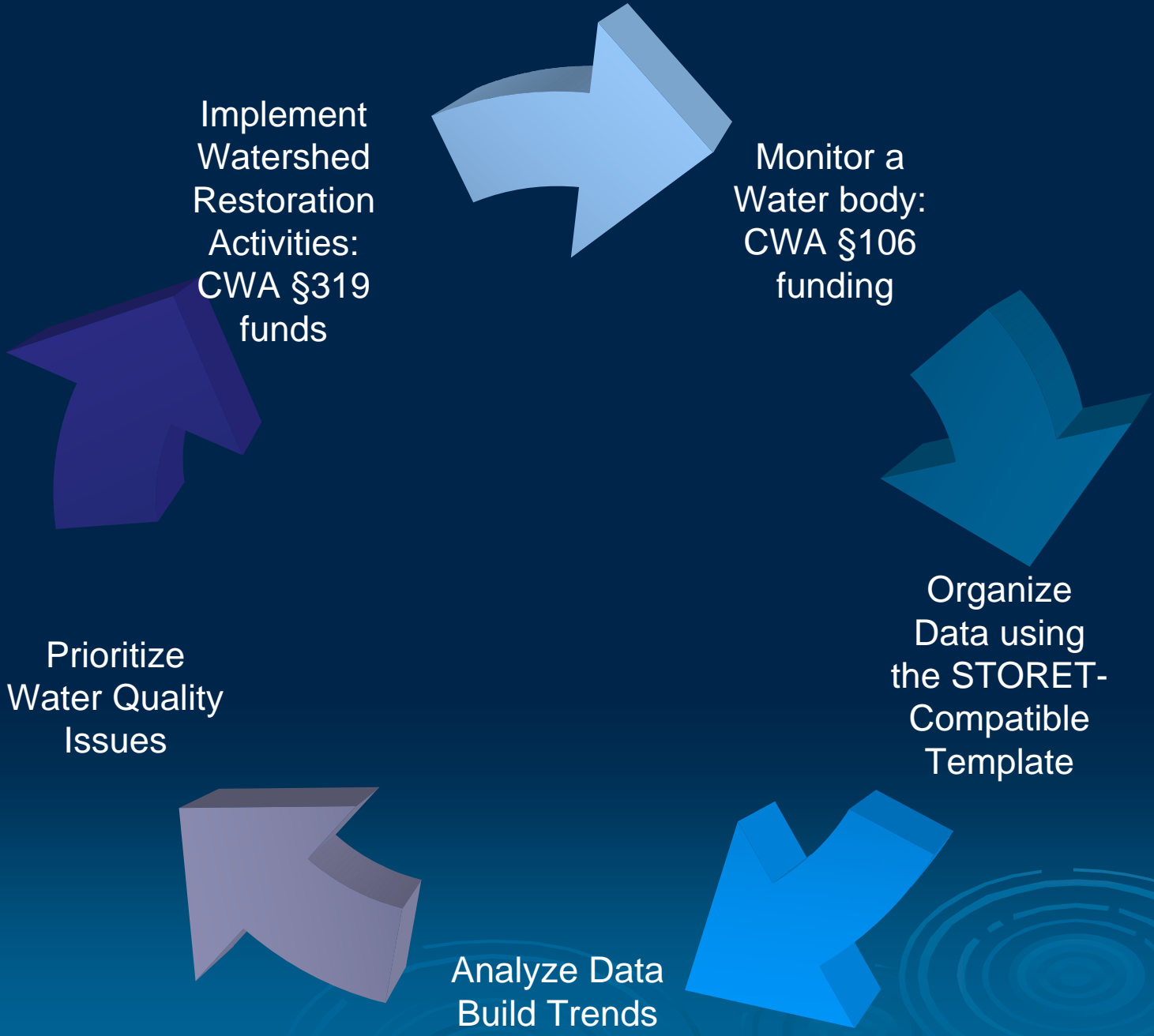
- Tribal Water Quality Program completion of a Monitoring Strategy

## ➤ **WQ 6b:**

- Tribal Water Quality Program submittal of surface water quality data in STORET-compatible format

## ➤ **SP-14:**

- Documentation of Water Quality “Improvement” in Indian Country




# EXAMPLE

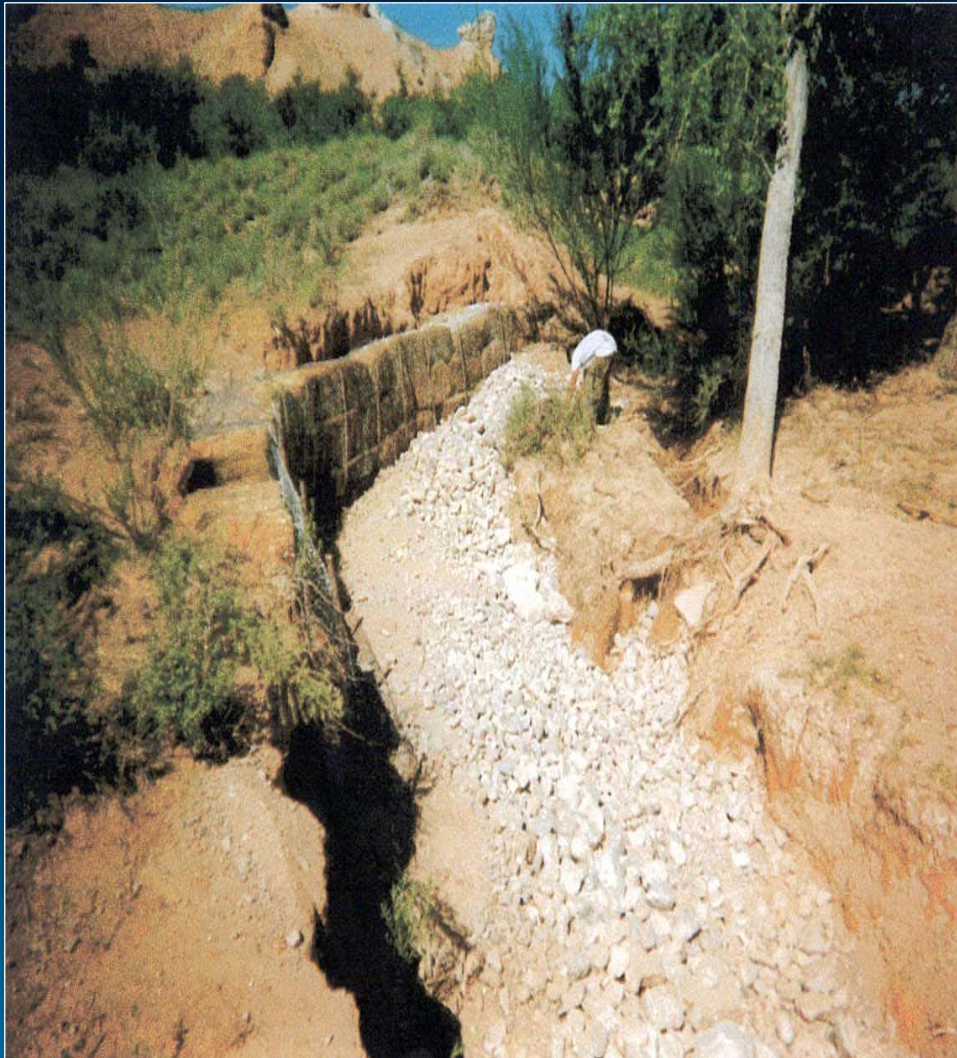
- Monitoring Smith Creek for 1.5 years
- After analyzing the data from those monitoring events you realize that Turbidity has increased, and Dissolved Oxygen has decreased
- You go upstream of the monitoring site and see this....



# EXAMPLE

- Where do we go from here? What is the next step to improving this stretch of the water body?
  - Can a BMP be implemented?
  - If so, what kind of BMP do you think would provide the biggest impact to improving water quality?
  - How are you going to determine if this BMP is working?
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# EXAMPLE



- BMP implemented
- Post-project monitoring should be put into action
- Comparison of post-project data to pre-project data sets make a determination on the effectiveness of the BMP
- Analysis of data and recognizing trends is imperative to making decisions regarding your water quality programs
- Is there an improvement on your water quality?