



# Tribal Monitoring Strategies

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Water Quality Branch

### Why a Monitoring Strategy...

- Tribal Assessment Reports
  - Monitoring Strategy
  - Water Quality Assessment
  - Water Quality Data (STORET)



#### Guidance

- Guidance on Awards of Grants to Indian Tribes under Section 106 of the Clean Water Act 2007
- Developing a Tribal Water Monitoring Strategy Clean Water Act Tribal 106 Guidance 2007.

#### Monitoring Strategy should...

- > Support the efforts of the Clean Water Act.
- Where you are now and where you want to be.
- > Provide Continuity.







#### 10 elements

- I. Monitoring Program Strategy
- II. Monitoring Objectives
- III. Monitoring Design
- IV. Water Quality Indicators
- V. Quality Assurance
- VI. Data Management
- VII. Data Analysis/Assessment
- VIII. Reporting
- IX. Programmatic Evaluation
- X. General Support and Infrastructure

#### I. Monitoring Program Strategy

Long term plan (3-10 years)

All water body types

Coastal

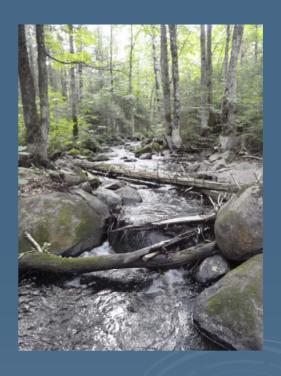
Rivers and Streams

Lakes

Wetlands

**Ground Water** 

Timeline



## II. Monitoring Objectives why the data are needed.

III. Monitoring Design

where and how often samples are collected.

IV. Core and Supplemental Water Quality Indicators

what water quality indicators are collected.

#### V. Quality Assurance

Table of QAPPs, SOPs and note on how data are validated.

#### VI. Data Management

Where the data is stored, and when will it be uploaded into STORET.

#### VII. Data Analysis/Assessment

statistical tools, indices, water quality standards used for data analysis.

#### VIII. Reporting

List of reports that are generated for different audience, not just for EPA.

#### IX. Programmatic Evaluation

process for reviewing monitoring program and identifying ways to continue to improve it

### X. General Support and Infrastructure

resources currently used to implement monitoring program and resources needed to achieve future objectives.

#### Region 5

- > Checklist
- Document growth
- Monitoring data to (e.g.,):
  - Identify potential sources
  - Biological data
  - Utilize information for permitting
  - Measure BMP
  - Species Inventory
  - Measure effectiveness of 319 actions.







#### Thank You

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