



Draft

# 106 Tribal Guidance



## Guidance on Awards of Grants to Indian Tribes under Section 106 of the Clean Water Act



For Fiscal Years 2007 and Beyond

United States Environmental Protection Agency  
Office of Water  
Office of Wastewater Management  
EPA 832-R-06-003



## Need for this Guidance:

- Difficult for EPA to report national results
- Lack of national tribal guidance on data collection and data reporting
- Increasingly critical problem for demonstrating results

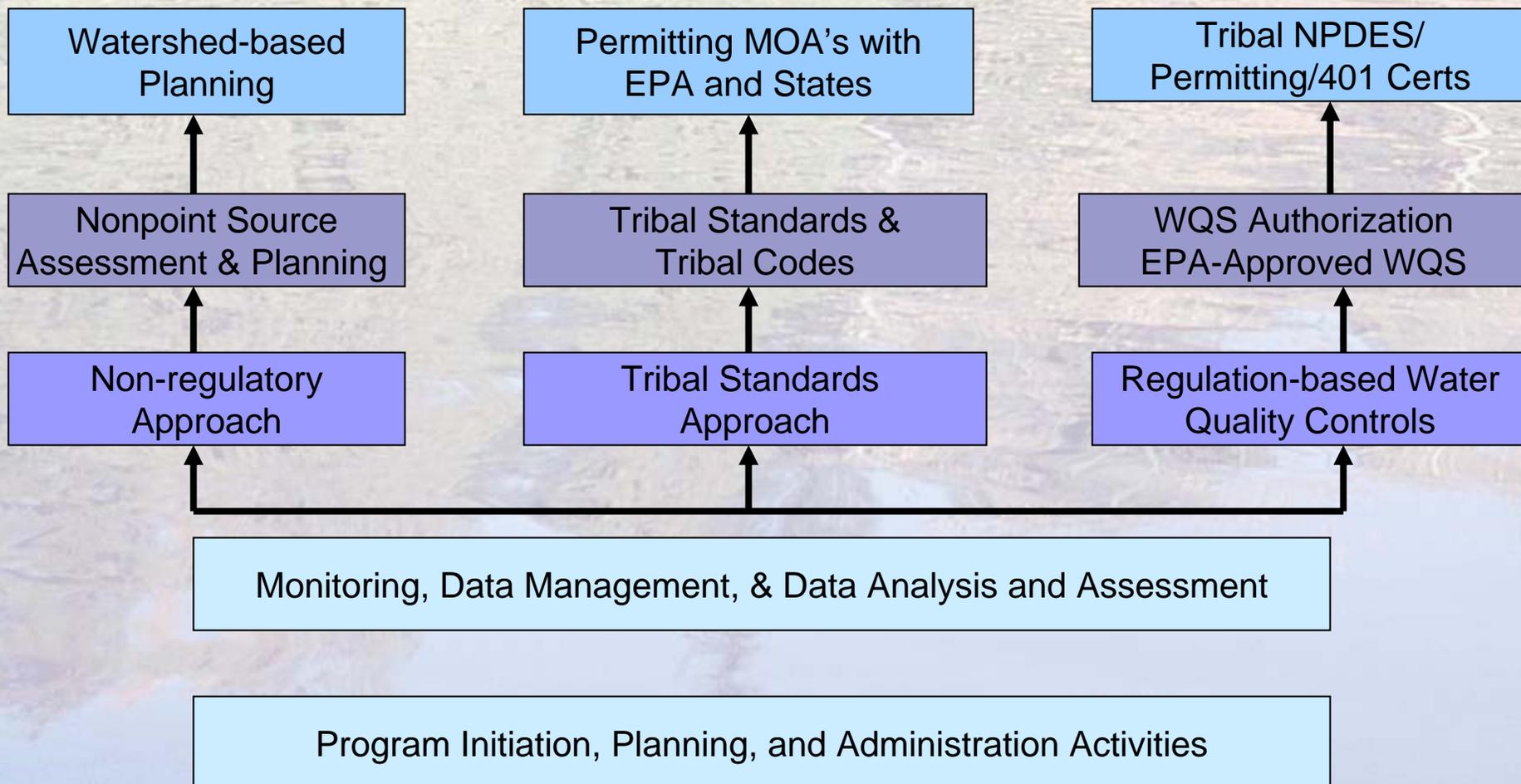


# 106 Tribal Guidance

1. THREE APPROACHES,
2. MONITORING STRATEGY and
3. REPORTING



# 1. Three Approaches for Tribal Water Quality Protection





## 2. Monitoring Strategy

### ■ Monitoring Initiative Guidelines

- FR- March 29, 2006

### ■ Implementation of comprehensive monitoring strategies

- Waterbodies
- What standards?
- What questions are you trying to answer?

<http://www.epa.gov/owow/monitoring/repguid.html>



# Water Bodies





# For more information, visit:

## [www.epa.gov/owow/lakes/lakessurvey/](http://www.epa.gov/owow/lakes/lakessurvey/)

### U.S. Environmental Protection Agency



## Clean Lakes

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## Survey of the Nation's Lakes

***EPA is working with states, tribes and others to survey the quality of the nation's lakes, ponds and reservoirs.***

EPA and its partners will soon be embarking on a Survey of the Nation's lakes. This Survey will be designed to help us to provide regional and national estimates of the condition of lakes. It will use a statistically-valid dataset that represents the condition of all lakes in similar regions sharing similar ecological characteristics. We will ask states and tribes to use consistent sampling and analytical procedures to ensure that the results can be compared across the country. This Survey of the Nation's Lakes will also help build state and tribal capacity for monitoring and assessment and promote collaboration across jurisdictional boundaries in the assessment of water quality.

- [Survey of the Nation's Lakes - Introductory Fact Sheet - Nov. 2005](#) (PDF, 106 KB, 2 pages, [about PDF](#))
- **Site Selection for the Survey of the Nation's Lakes** - Technical Fact Sheet - April 2006 ([HTML](#) | [PDF](#), 197 KB, 2 pages, [about PDF](#))

**Lakes,  
Ponds, and  
Reservoirs**

Lakes, Ponds and Reservoirs: Assessing the Nation's Waters



### Features

**Site Selection for the Survey of the Nation's Lakes - Technical Fact Sheet**

Site Selection for the Survey of the Nation's Lakes - Technical Fact Sheet

- Lakes Survey
- Lake Water Quality
- Clean Lakes Program
- Documents On-Line
- Documents To Order
- Lakes Mtg/Training
- Related Links
- Lakes Awareness Month
- Clean Lakes Archives



# Chemical, Physical and Biological Integrity

**Periodic Table of the Elements**

1 1 H																	2 2 He									
3 3 Li	4 4 Be											5 5 B	6 6 C	7 7 N	8 8 O	9 9 F	10 10 Ne									
11 11 Na	12 12 Mg											13 13 Al	14 14 Si	15 15 P	16 16 S	17 17 Cl	18 18 Ar									
19 19 K	20 20 Ca	21 21 Sc	22 22 Ti	23 23 V	24 24 Cr	25 25 Mn	26 26 Fe	27 27 Co	28 28 Ni	29 29 Cu	30 30 Zn	31 31 Ga	32 32 Ge	33 33 As	34 34 Se	35 35 Br	36 36 Kr									
37 37 Rb	38 38 Sr	39 39 Y	40 40 Zr	41 41 Nb	42 42 Mo	43 43 Tc											45 45 Rh	46 46 Pd	47 47 Ag	48 48 Cd	49 49 In	50 50 Sn	51 51 Sb	52 52 Te	53 53 I	54 54 Xe
55 55 Cs	56 56 Ba	57 57 *La	58 58 Hf	59 59 Ta	60 60 W	61 61 Re											63 63 Au	64 64 Hg	65 65 Tl	66 66 Pb	67 67 Bi	68 68 Po	69 69 At	70 70 Rn		
87 87 Fr	88 88 Ra	89 89 +Ac	90 90 Rf	91 91 Ha	92 92 Hf	93 93 Ta	94 94 W	95 95 Re	96 96 Os	97 97 Ir	98 98 Pt	99 99 Au	100 100 Hg	101 101 Tl	102 102 Pb	103 103 Bi	104 104 Po	105 105 At	106 106 Rn							

\* Lanthanide Series  
+ Actinide Series

58 58 Ce	59 59 Pr	60 60 Nd	61 61 Pm	62 62 Sm
90 90 Th	91 91 Pa	92 92 U	93 93 Np	94 94 Pu

Nutrients, sediment, pH, DO



Habitat, Flow



Fish, Invertebrates, Algae, & Bacteria



# Establish Baseline Monitoring Program

- Select water quality indicators and reporting parameters to be monitored

## Fundamental

Dissolved Oxygen

pH

Temperature

Turbidity

## Intermediate

Total Phosphorus

Total Nitrogen

## Mature

Macroinvertebrates

*E. coli* or  
enterococci

Basic Habitat  
Information



# Water Quality Training for all Region 8 tribes by Fort Peck Assiniboine & Sioux Tribes, Northeast Montana





### 3. Why Report?

- Allows EPA to assess national results associated with Section 106 Tribal Program
- Provides foundation to tribes for assessing water quality for reservation waters
- Allows tribes to compare water quality data over time in order to make informed decisions about program's future



# Reporting Requirements

## ■ Tribal Assessment Report

- Description of monitoring strategy *new*
- Water quality assessment
- Electronic copies of water quality data for 9 basic parameters *new*





# Electronic Copies of Data

- Monitoring data, submitted electronically, for each assessed surface water body
- Data and Metadata
  - Water body name
  - Latitude/longitude location of sites
  - Name of the watershed
  - Parameters monitored and results

Monitoring Parameters	
Fundamental	Dissolved Oxygen
	pH
	Temperature
	Turbidity
Intermediate	Total Phosphorus
	Total Nitrogen
Mature	Macroinvertebrates
	E. Coli or enterococci
	Basic habitat information



# **EPA'S STRATEGIC PLAN**

**GPRA, PART, and Environmental Results**

## **Strategic Target N**

**Number of Tribes with Standards**

**Number of Tribes with Monitoring Strategies**

**Number of Tribes with Watershed  
Based Planning**



# Strategic Target N

- By **2012**, improve water quality in Indian country at not fewer than **50 baseline monitoring stations** in tribal waters (i.e., show **improvement in one or more** of seven **key parameters**: dissolved oxygen, pH, water temperature, total nitrogen, total phosphorus, pathogen indicators, and turbidity).



## Tribal Water Quality Improvement Measure Baseline Stations and Straw Targets

	NUMBER OF TAS TRIBES	NUMBER OF TRIBES WITH STATIONS	(a) TOTAL NUMBER OF STATIONS PLANNED	(b) TOTAL NUMBER OF STATIONS WITH POTENTIAL FOR IMPROVEMENT	(c) STATIONS TARGETED FOR IMPROVEMENT BY 2012
Region 1	7	2	160	14	4
Region 2	1	1	14	TBD	0
Region 4	5	2	37	2	1
Region 5	32	32	729	44	6
Region 6	43	8	68	14	1
Region 7	5	7	82	4	1
Region 8	23	19	100	10	10
Region 9	96	23	203	43	15
Region 10	37	11	268	67	15
<b>TOTALS</b>	<b>249</b>	<b>105</b>	<b>1661</b>	<b>198</b>	<b>53</b>
				Target as percent of (a)	3.2%
				Target as percent of (b)	26.8%



# Pyramid Lake Paiute

**Nitrate & Nitrite: 1999 2004**  
**Lower Truckee River**  
PLPT Data

