



Clean Water Act §106 Reporting Requirements

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19th Annual US EPA, Region 9 Tribal Conference
October 20, 2011

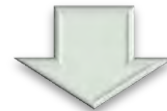
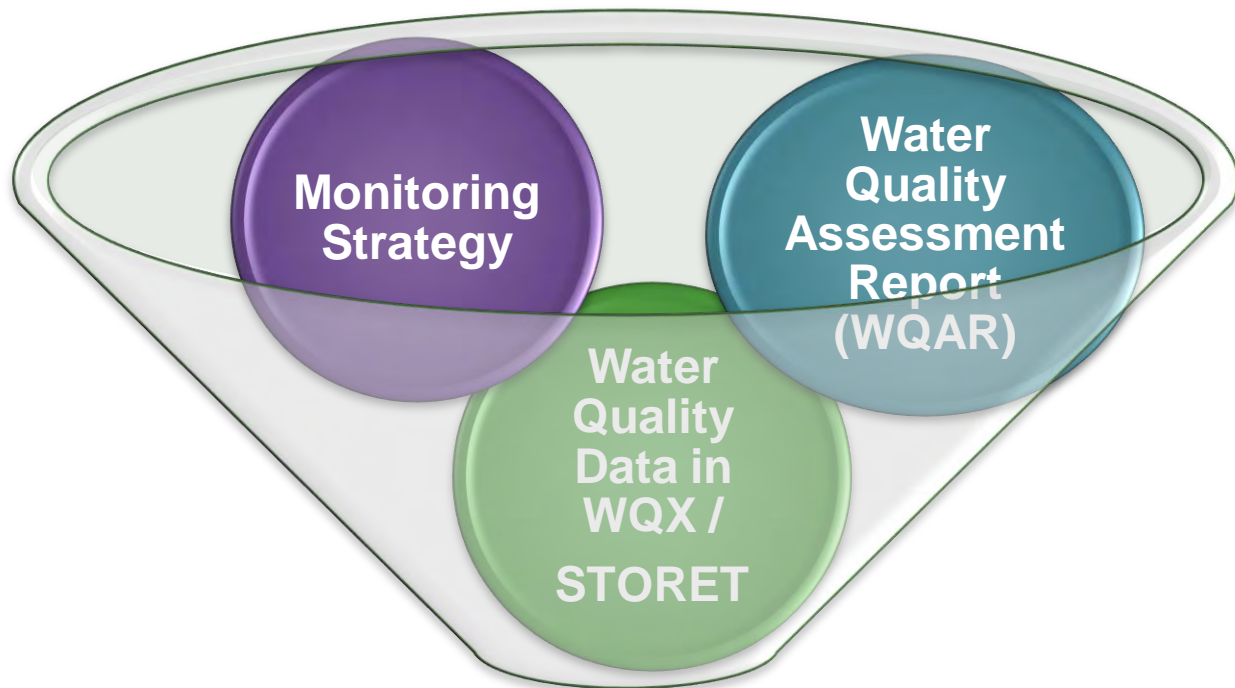




Session Agenda

- **Overview of Agenda and Check-in with Session Participants**
- **Review CWA 106 Reporting Requirements**
- **Live Demonstration of Data Entry into WQAR Template**
- **Results of R9's Tribal WQAR Data from 2010**
- **Live Demonstration of R9's Interactive WQAR Template Tutorial**
- **Questions**

CWA § 106 Reporting Requirements



Document Environmental Results in Indian Country

Background

Region 9 created this pilot template to collect tribal water quality data to create a region-wide picture of water quality on tribal lands in EPA R9.

(Tab 1)
EPA Region 9 Pilot
Clean Water Act §106 Tribal Water Quality Assessment
Report (WQAR) Template
Version 2010
INSTRUCTIONS

This pilot template fulfills the annual water quality assessment reporting requirement per the CWA 106 Guidance. To meet this requirement, use the most current tribal water quality data available (i.e. data in STORET-compatible format) to fill out this template and write the narrative.

Tab 2: WQAR Template

IMPORTANT: Please use separate entries for each monitoring station. This may result in more than one entry per waterbody.

Column #	Column Title	Description
1	Waterbody Name/Identifier	Provide the name of the waterbody, or a code your tribe uses for the waterbody.
2	Waterbody Type	Choose from the drop down menu. You can enter your own value if not listed.
3	Monitoring Station Located on Reservation	Indicate whether the monitoring station on the waterbody is within reservation boundaries.
4	Monitoring Station ID	Please type in your monitoring location ID. List only one monitoring station for each entry within the template. If your data is in WQX format, use this location ID.
5	Distance or Area Monitored or Assessed	Indicate the distance or area of waterbody monitored. Please estimate to the nearest 10th of your unit of measure (i.e. 5.2 miles). See Definitions, Tab 6).
6	Units of Measure	Choose from the drop down menu or fill in your own value. Please type in the number of times water quality samples are collected at

1. Instructions 2. WQAR Template 3. Atlas of Tribal Waters 4. Watershed Restoration 5. Narrative 6. Definitions

Live Demonstration of Data Entry into WQAR Template



To Download the R9 WQAR Template:

- Go to the Following URL:

<http://www.epa.gov/region09/water/tribal/cwa-reporting.html>



The screenshot shows a web browser window displaying the EPA Pacific Southwest Region 9 website. The browser's address bar shows the URL <http://www.epa.gov/region09/water/tribal/cwa-reporting.html#two>. The website header includes the EPA logo and navigation links for "ALL EPA", "REGION 9", and "Advanced Search". The main content area is titled "Pacific Southwest, Region 9" and "Overview of CWA §106 Reporting Requirements". A sidebar on the left lists various water program topics. The main text provides an overview of the guidance on awards of grants to Indian tribes under Section 106 of the Clean Water Act, including a list of three required steps: a monitoring strategy, a water quality assessment, and surface water quality monitoring data submitted electronically in a STORET-compatible format. A PDF icon for the guidance document is also visible.

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Pacific Southwest, Region 9
Serving: Arizona, California, Hawaii, Nevada, Pacific Islands, Tribal Nations

You are here: [EPA Home](#) » [Pacific Southwest](#) » [Water](#) » [Tribal Water](#) » [Clean Water Act Reporting Requirements](#)

Overview of CWA §106 Reporting Requirements

[Tribal Home](#) - [Tribal Air](#) - [Tribal Waste](#) - [Tribal Water](#)

Tribal Water Protection Quick Finder

Tribal Water Protection Home Tribal Program Home	Clean Water Act (CWA) Activities Safe Water Drinking Act (SDWA)	Source Water Protection (SWP) Underground Injection Control
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Overview

The [Guidance on Awards of Grants to Indian Tribes under Section 106 of the Clean Water Act](#) (the Guidance) is intended to help tribal water quality program managers, staff, and other tribal environmental decision makers design and implement effective and successful water quality programs. It also establishes procedures and guidelines for EPA regions to consider when awarding and administering grants to federally recognized Tribes.

Reporting requirements and data management expectations for all Tribal programs are a key component of the Guidance. Tribes are developing tribal assessment reports that contain information about water quality on tribal land and demonstrate national results for the Section 106 Tribal program. A tribal assessment report consists of the following. For each step, regional supplemental information is provided farther down this page:

1. a description of the **monitoring strategy**:
— [Regional supplement](#)
2. a **water quality assessment**; and
— [Regional supplement](#)
3. surface water quality monitoring data submitted electronically in a **STORET-compatible format**.
— [Regional supplement](#)

The Guidance and its (non-regional) supplements are available on [EPA's Clean Water Financing website](#), and the STORET-compatible Data Template (also referred to as the WQX Web Template) is available along with other resources at the [WQX Web Resources and Download website](#).

The documents below have been developed to assist Tribes in completing reporting requirements. These regional supplements support and further clarify the reporting requirements outlined in the Tribal 106 Guidance, and serve as additional tools for EPA and tribal staff to use as they implement the Guidance.

[Final Guidance on Awards of Grants to Indian Tribes under Section 106 of the Clean Water Act](#)
For Fiscal Years 2007 and Beyond
(PDF) 158 pp. 2.6M

You will need Adobe Reader to view some of the files on this page. See [EPA's PDF page](#) to learn more about PDF, and for a link to the free Adobe Reader.

<http://www.epa.gov/owm/cwfinance/final-tribal-guidance.pdf>

To Download the R9 WQAR Template:

- **Scroll Down and Click on:**
“Assessment Template, 2010 (.xls file, 6 pp, 544K)”

The screenshot shows a web browser window with the URL <http://www.epa.gov/region09/water/tribal/cwa-reporting.html#two>. The page is titled "Tribal Water: CWA | Region 9 | US EPA". It contains a section titled "Regional Supplements" with a sub-section "Reporting Requirements Overview (PDF) (1 pg, 78K)". Below this, there are three main sections: "1. Monitoring Strategy (Page A-1 of Guidance)", "2. Water Quality Assessment Report (Page A-4 of Guidance)", and "3. STORET-Compatible Electronic Data (Page A-7 of Guidance)". An orange arrow points to the "2. Water Quality Assessment Report (Page A-4 of Guidance)" section, which contains a list of links including "Assessment Template, 2010 (.xls file, 6 pp, 544K)".

If you have questions about these materials, please contact your [Section 106 Project Officer \(PDF\)](#). (1 pg, 124K)

Regional Supplements

Reporting Requirements Overview (PDF) (1 pg, 78K)

1. Monitoring Strategy (Page A-1 of Guidance)

- [Monitoring Strategy Overview \(PDF\)](#) (2 pp, 177K)
- [Monitoring Strategy Exercise \(PDF\)](#) (8 pp, 95K)
- [Developing a Tribal Monitoring Strategy \(Guidance Supplement\) \(PDF\)](#) (25 pp, 324K) lays out the decisions and analysis that Tribes must address to produce a monitoring strategy. The supplement provides formats and clearly identifies required information.

2. Water Quality Assessment Report (Page A-4 of Guidance)

- [Water Quality Assessment Report Overview \(PDF\)](#) (2 pp, 333K)
- [Region 9 Water Quality Assessment Report Pilot](#)
 - [Assessment Template, 2010 \(.xls file, 6 pp, 544K\)](#)
 - [2011 Interactive WQAR Tutorial \(PowerPoint\)](#) (94 pp, 4.98MB) [Download the free PowerPoint Reader](#)
 - [Evaluation Sheet \(PDF\)](#) (1 pg, 18K)
 - [WQAR Purpose Statement \(PDF\)](#) (1 pg, 147K)
 - [WQAR Template Tutorial 2010 \(PDF\)](#) (8 pp, 336K)
 - [WQAR FAQ \(PDF\)](#) (2 pp, 137K)
- [Water Quality Assessment Report \(WQAR\) Template Webinar - September 7, 2011 \(PDF\)](#) (54 pp, 5.0M)
- [WQAR Webinar Q&A \(PDF\)](#) (6 pp, 200K)
- [Data Assessment and Reporting \(Guidance Supplement\) \(PDF\)](#) (18 pp, 247K)

3. STORET-Compatible Electronic Data (Page A-7 of Guidance)


[STORET/WQX Data Template \(ZIP, 600K\)](#)

Understanding Data Management

- [Using Excel \(PDF\)](#) (14 pp, 1.3MB)
- [Data Storage Flowchart \(PDF\)](#) (1 pg, 70K)
- [Data Submission Tools Comparison Chart \(PDF\)](#) (1 pg, 22K)
- [Data Management \(Guidance Supplement\) \(PDF\)](#) (30 pp, 463K)
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Using the STORET/WQX Data Template (Tutorials and User Guide)

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- [STORET/WQX Workshop 2008 Presentations](#)

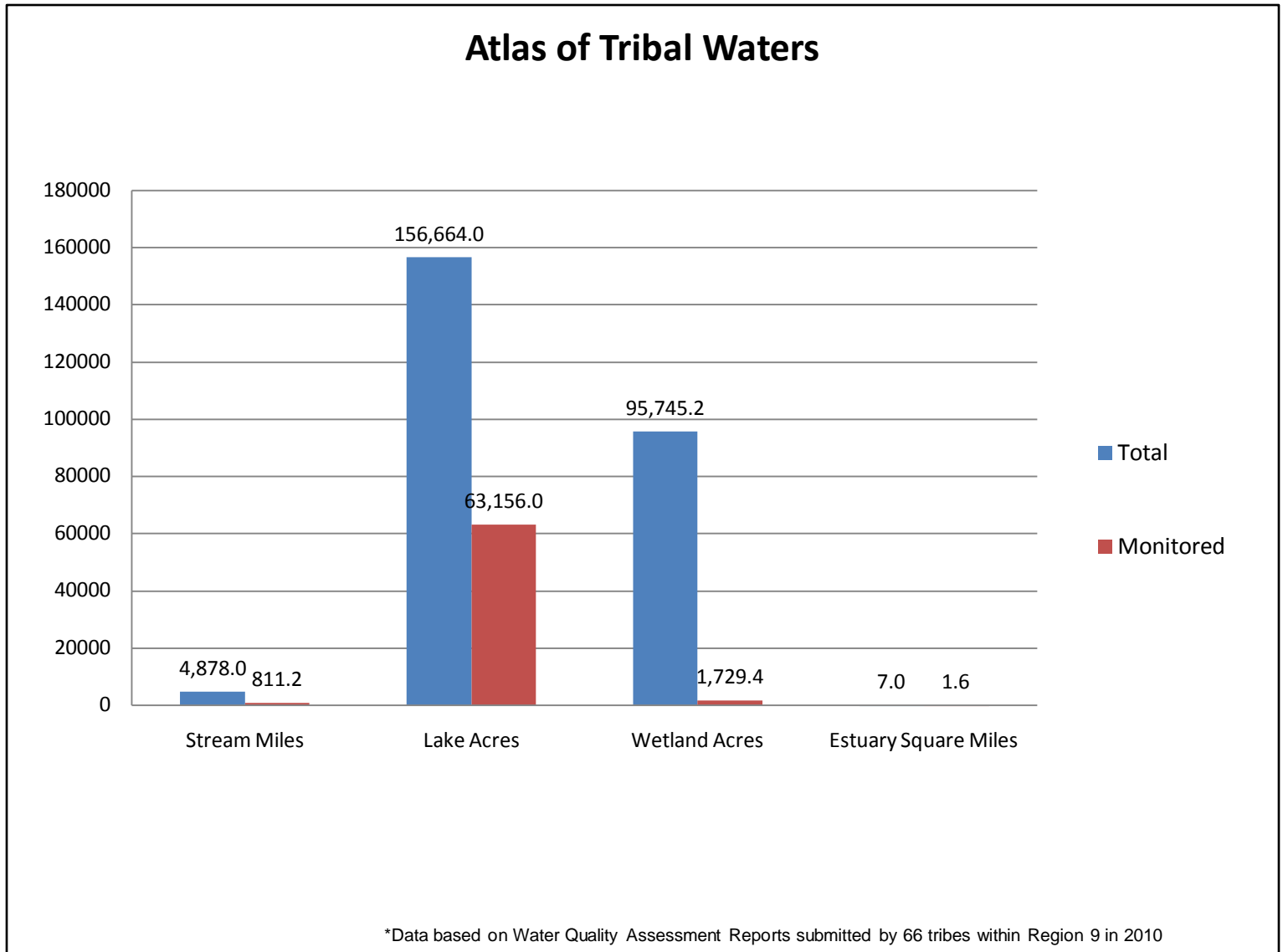


Using Data to Tell Our Story: Results of WQAR Data Collection

* Results Collected from R9 WQAR Templates
Submitted in 2010



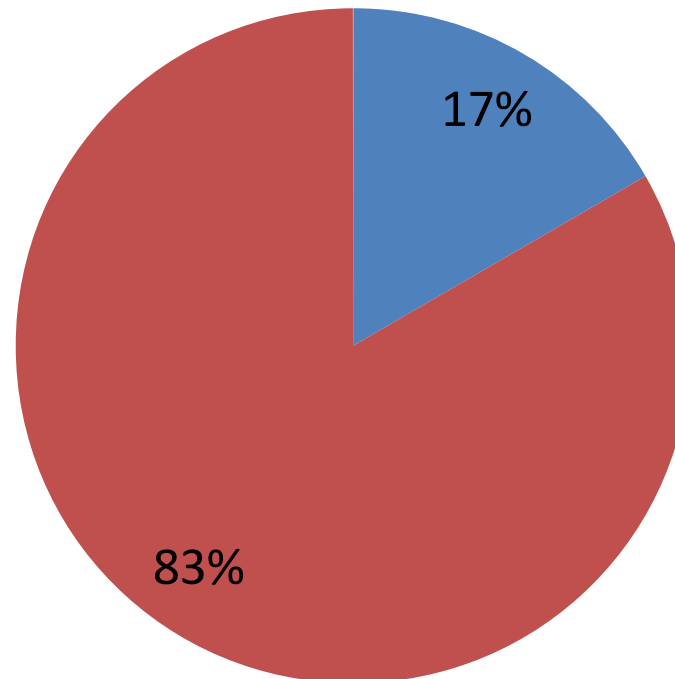
Reservation Waters: How Much was Monitored?



Stream Miles Monitored in Indian Country

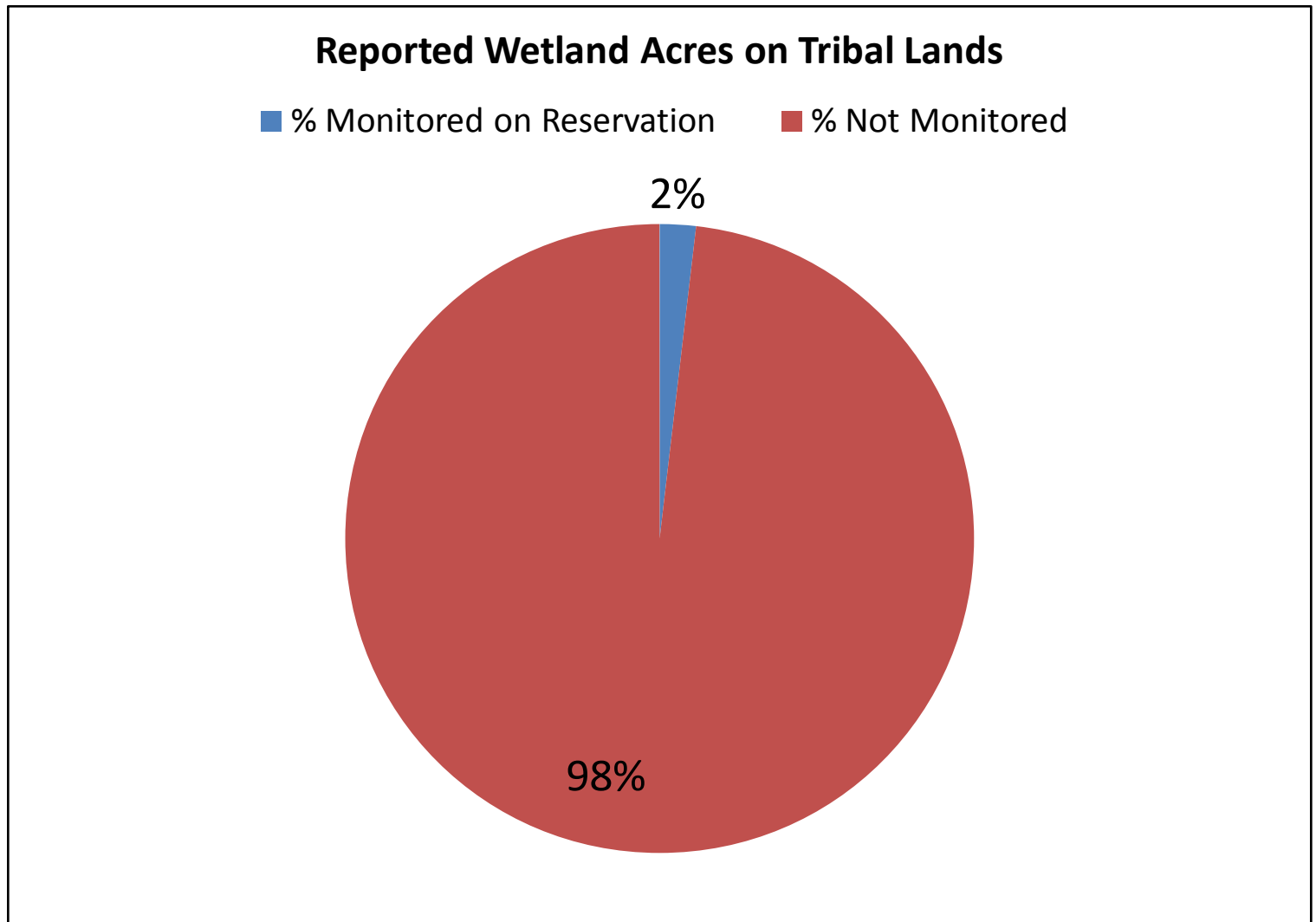
Reported Stream Miles On Tribal Lands

■ % Monitored on Reservation ■ % Not Monitored



*Data based on Water Quality Assessment Reports submitted by 66 tribes within Region 9 in 2010

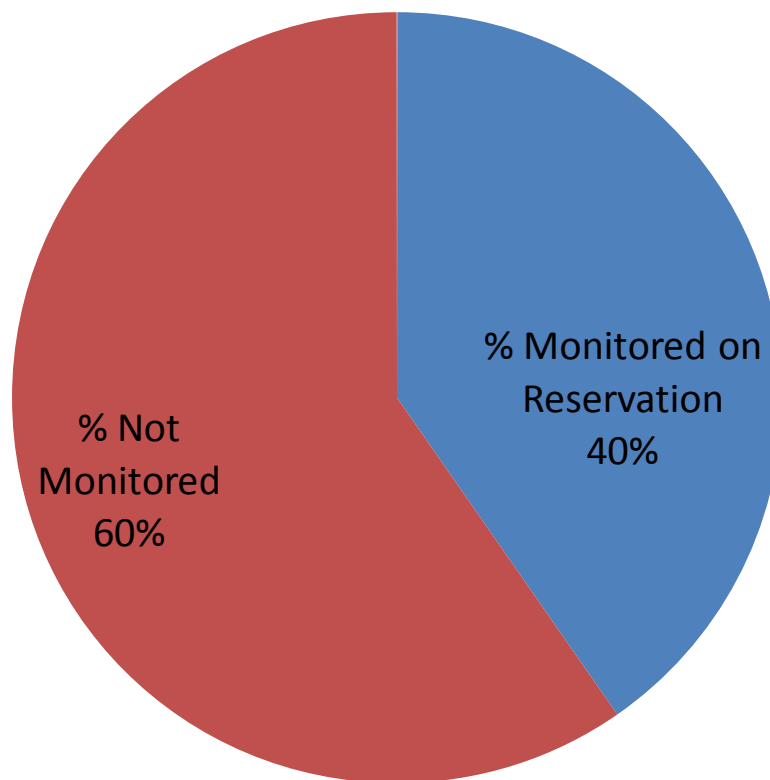
Wetland Acres Monitored in Indian Country



*Data based on Water Quality Assessment Reports submitted by 66 tribes within Region 9 in 2010

Lake Acres Monitored in Indian Country

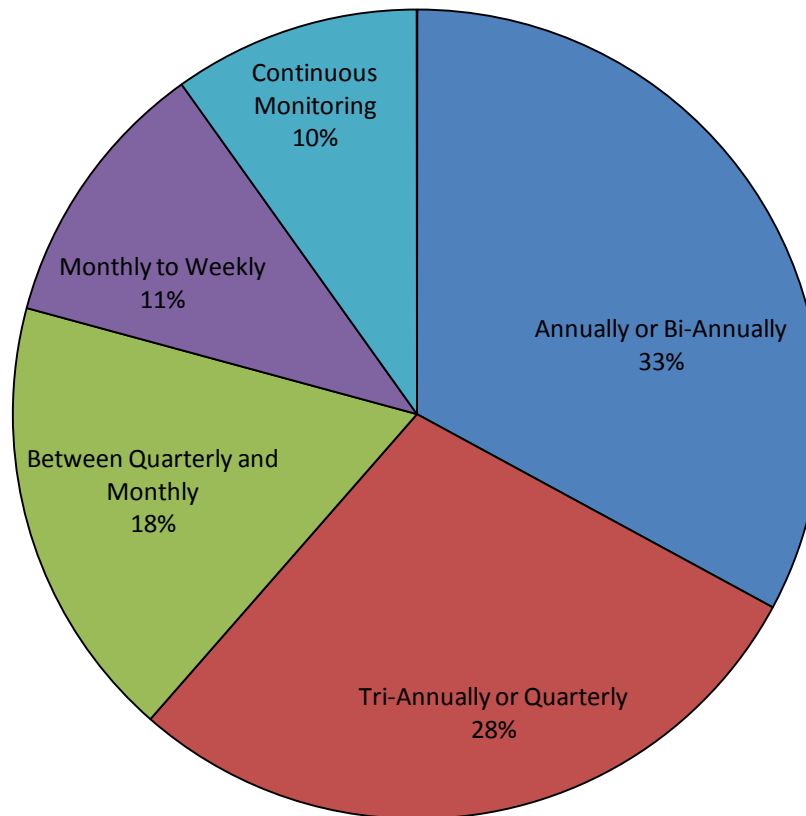
Reported Lake Acres on Tribal Lands



How Often Did Monitoring Occur?

Frequency of Water Quality Monitoring

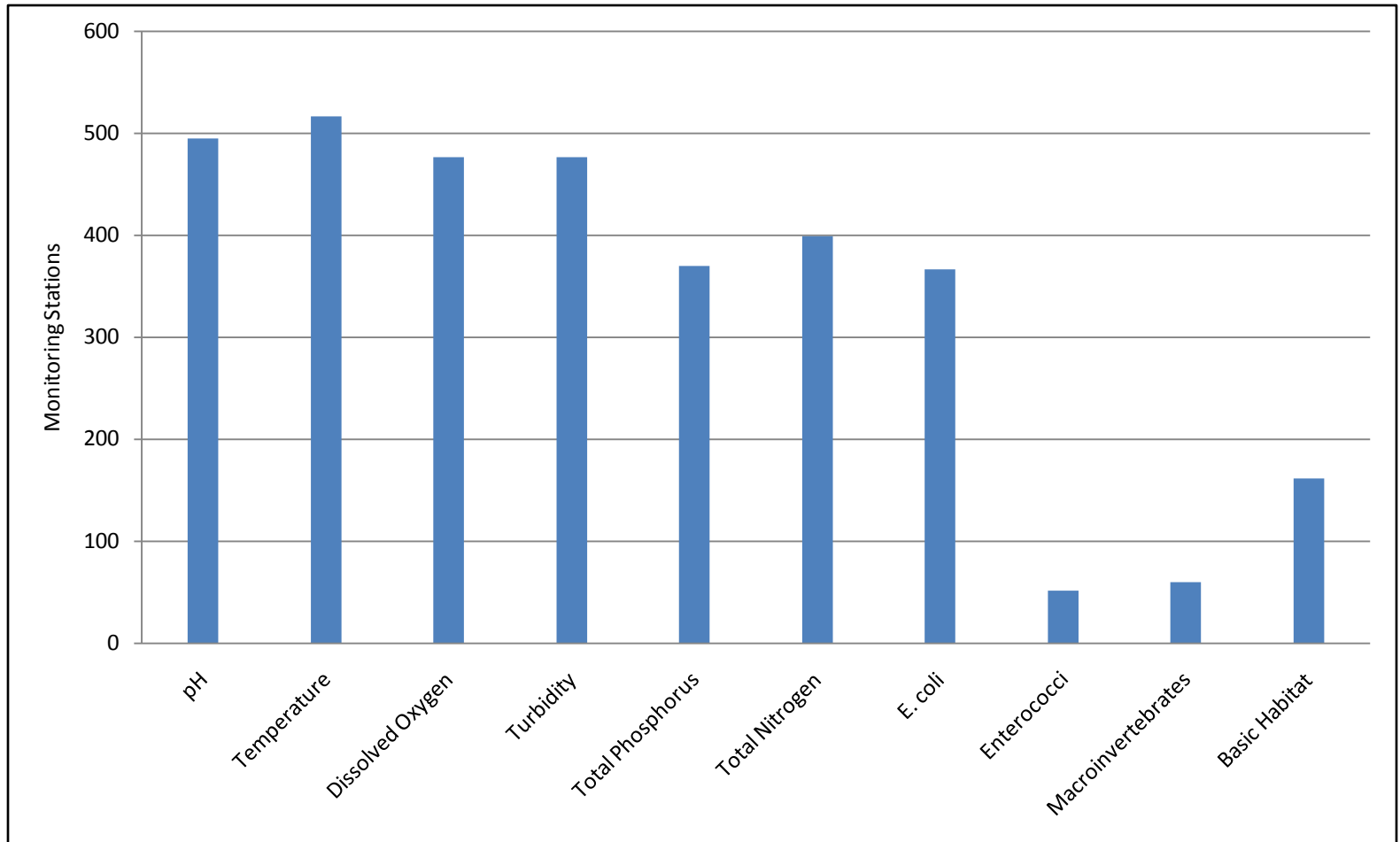
568 monitoring stations



*Data based on Water Quality Assessment Reports submitted by 67 tribes within Region 9 in 2010

What EPA Recommended Parameters Were Being Monitored by R9 Tribes?

Several tribal programs have progressed beyond fundamental levels and are now monitoring for macroinvertebrates and basic habitat. The majority of programs in R9 monitor the 4 fundamental parameters.

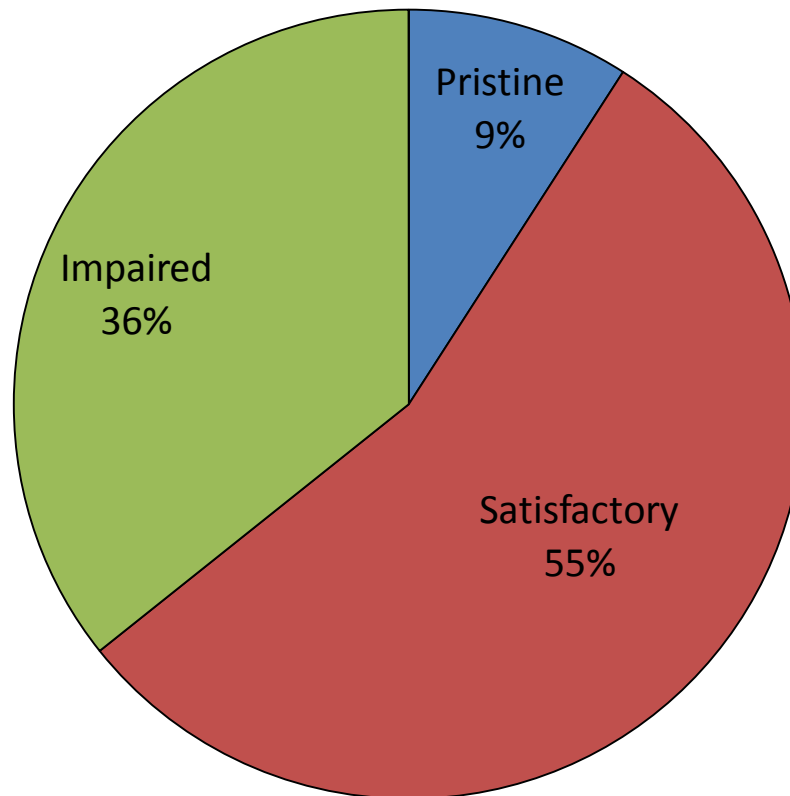


*Data based on Water Quality Assessment Reports submitted by 67 tribes within Region 9 in 2010

What is the Status of Water Quality in R9 Indian Country?

Current Water Quality Status of Monitored Stations

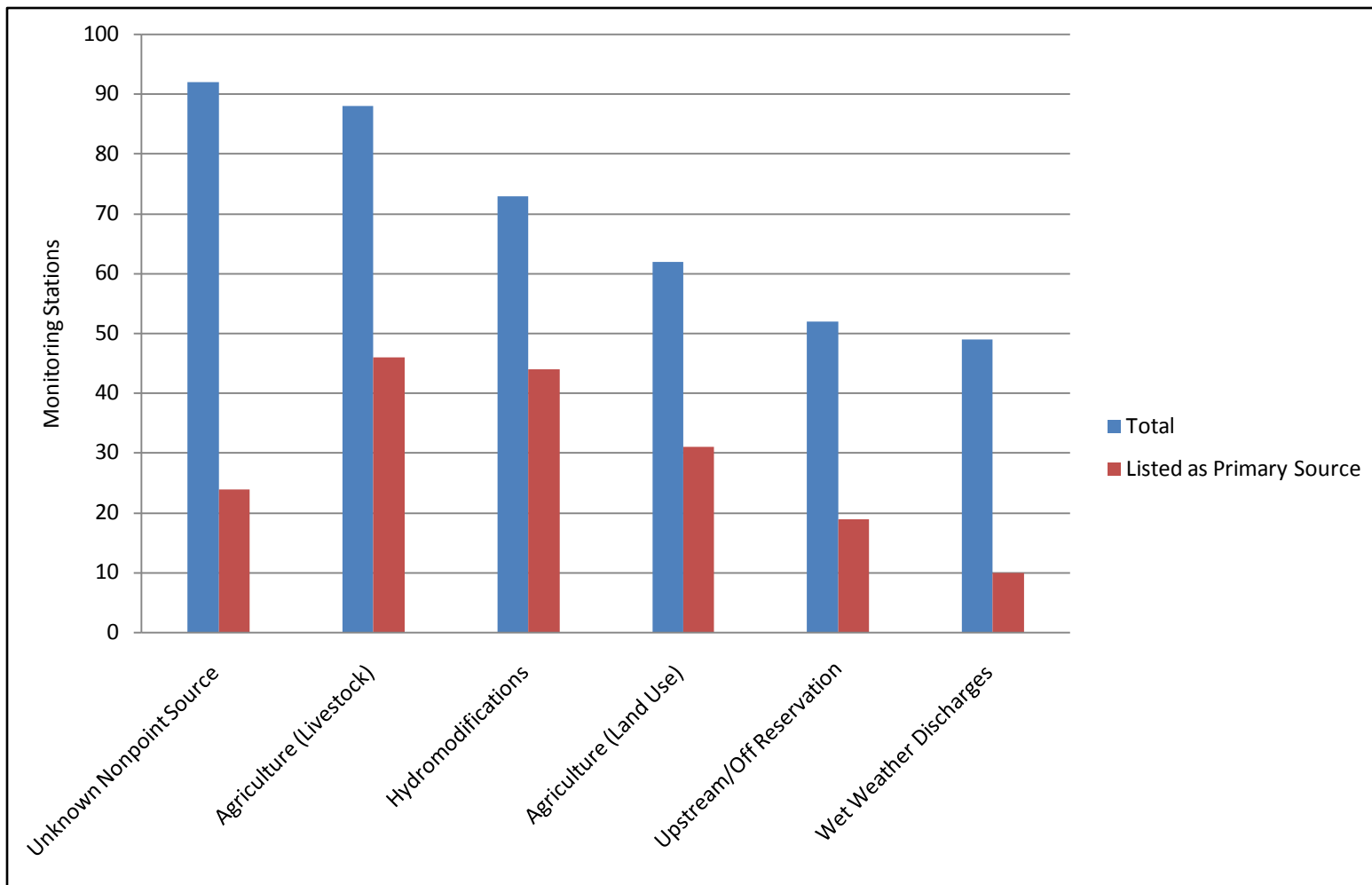
586 stations



*Data based on Water Quality Assessment Reports submitted by 67 tribes within Region 9 in 2010

What is Causing Water Quality Impairment?

Nonpoint source pollution is the primary cause of most water quality impairment. More work is required through the CWA 319 program to help address these concerns. The CWA 106 program also helps tribes identify the nature of these nonpoint sources.



*Data based on Water Quality Assessment Reports submitted by 67 tribes within Region 9 in 2010

Live Demonstration of R9's Interactive WQAR Template Tutorial



To Experience the R9 WQAR Template Tutorial:

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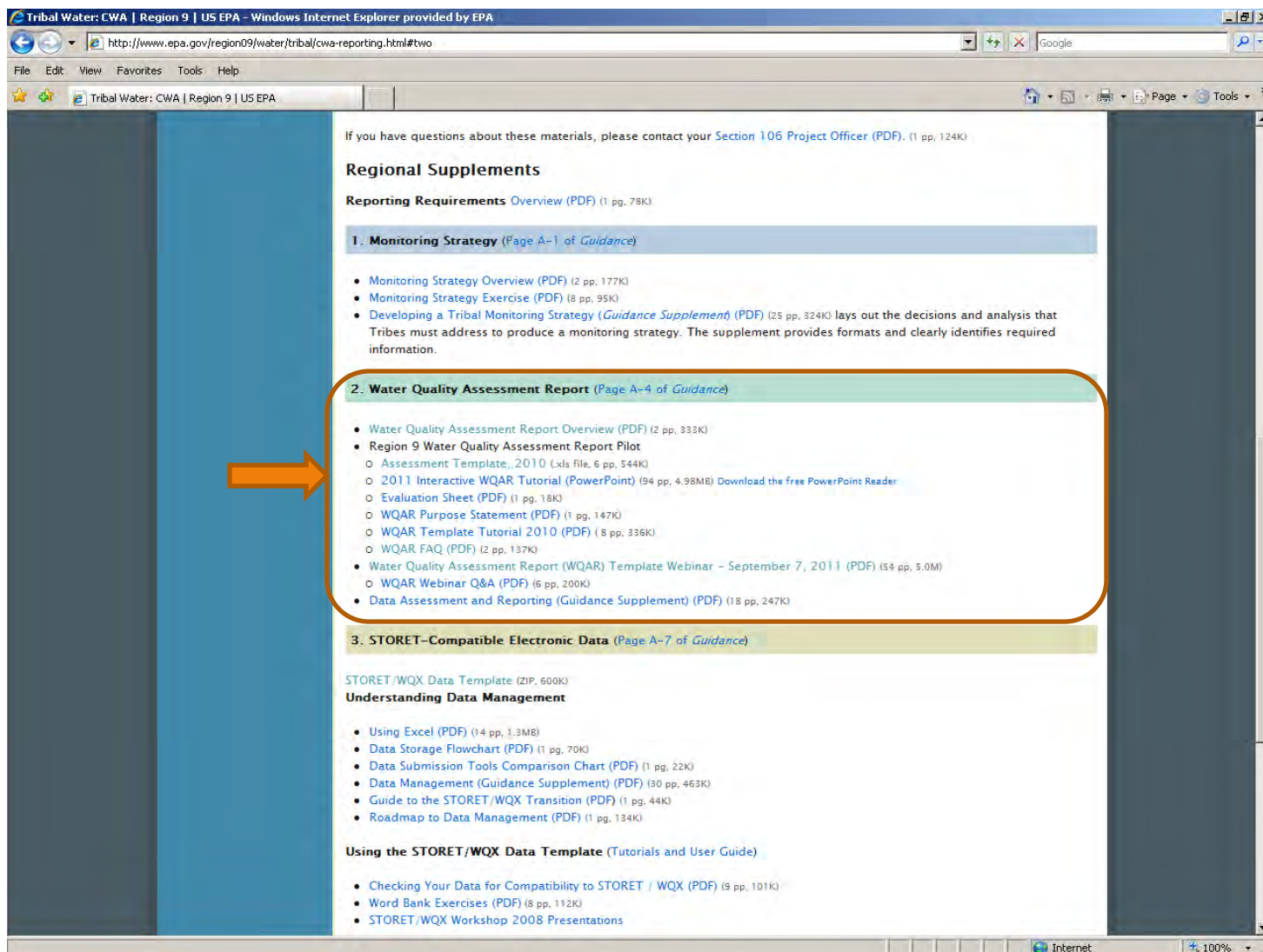
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Tribal Water: CWA | Region 9 | US EPA - Windows Internet Explorer provided by EPA

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File Edit View Favorites Tools Help

Tribal Water: CWA | Region 9 | US EPA

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Internet 100%

Now Available on R9's CWA 106 Reporting Requirements Website: Region 9's Interactive WQAR Template Tutorial

R9 Water Quality Assessment Report Outline

The WQAR is made of 6 sections

- **Tab 1:** Instructions
- 4 sections you must complete:
 - Tab 2:** WQAR Template (data analysis and assessment)
 - Tab 3:** Tribal Atlas (overview of water existing in and being monitored on Tribal lands)
 - Tab 4:** Restoration Projects (CWA 319)
 - Tab 5:** Narrative (written report, attached)
- **Tab 6:** Definitions

1. Instructions 2. WQAR Template 3. Atlas of Tribal Waters 4. Watershed Restoration 5. Narrative 6. Definitions



Water Quality Assessment Example Spring River Tribe

You are the newly appointed Water Quality Monitoring Specialist for the Spring River Tribe. It is your task to monitor the water bodies affecting the Tribe's reservation for the purpose of protecting, maintaining or improving the health of this vital resource, which the Tribe uses for a variety of reasons.

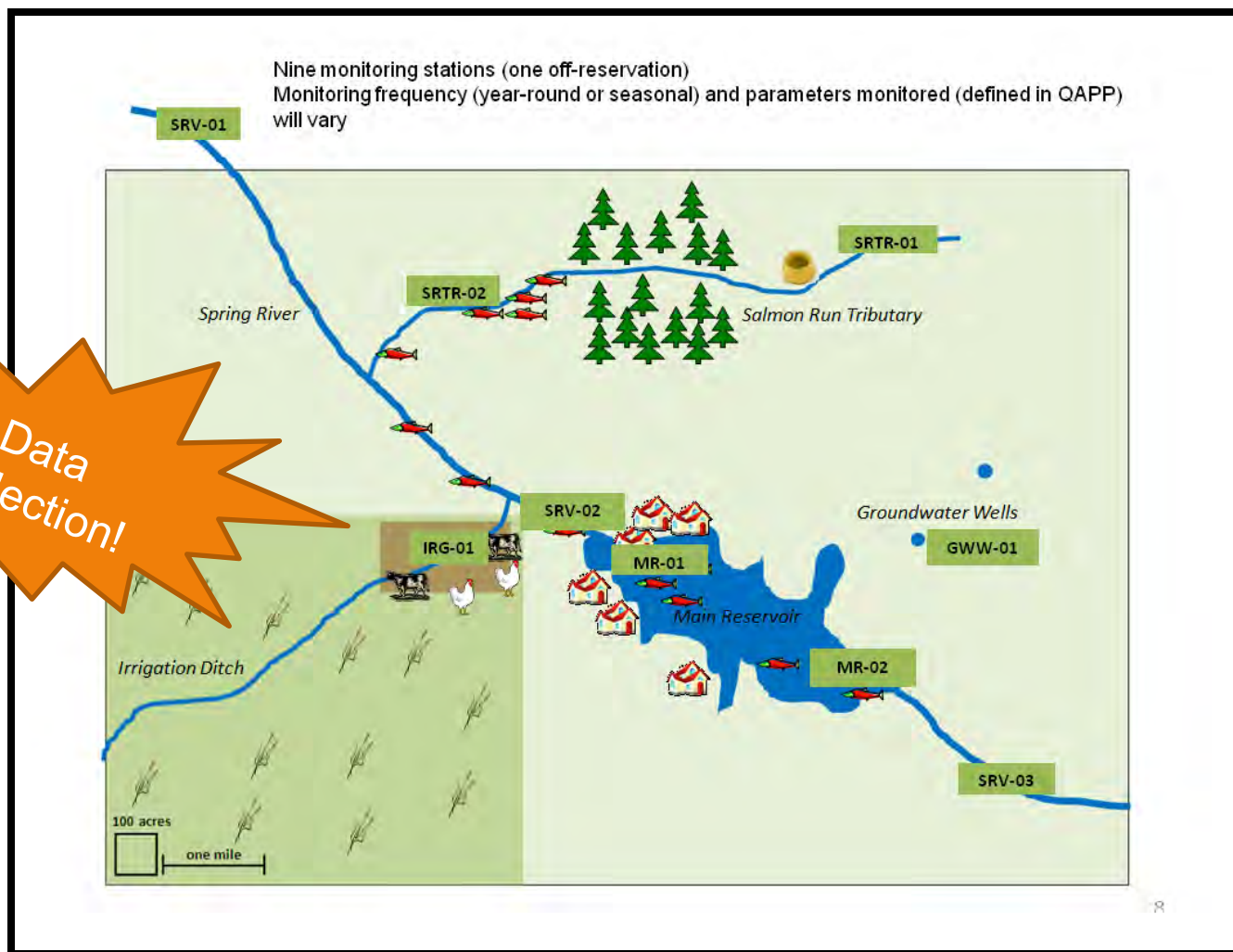
As part of your responsibilities, you must fill out a Water Quality Assessment Report Template to submit to your Region 9 EPA Project Officer. The template will help you document impaired parameters, and possible sources of pollutants, and will prompt you to answer basic questions about the quality of your water.

This tutorial will guide you through the process of filling out a WQAR Template. It will also help you determine what type of environmental analysis you'll need to make based upon any monitoring data you have collected in order to complete the template.



Region 9's Interactive WQAR Template Tutorial

URL: <http://www.epa.gov/region9/water/tribal/cwa-reporting.html>



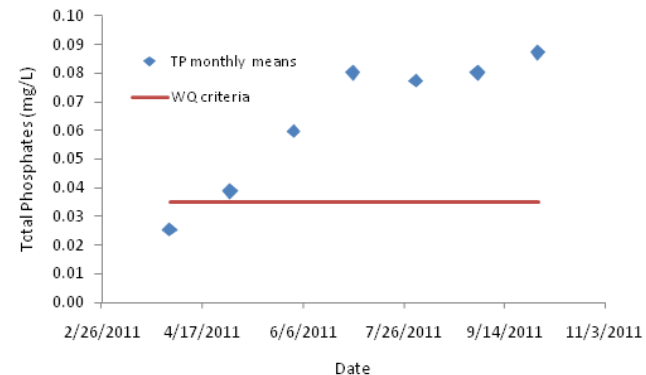
Region 9 WQAR Template Tutorial

URL: <http://www.epa.gov/region9/water/tribal/cwa-reporting.html>

Monthly Means

Date	TP monthly means (mg/L)	Water Quality criteria for TP (mg/L)
4/2011	0.026	0.035
5/2011	0.039	0.035
6/2011	0.060	0.035
7/2011	0.080	0.035
8/2011	0.078	0.035
9/2011	0.080	0.035
10/2011	0.087	0.035

Total Phosphorous, IRG-01



Data Analysis!

- TP data.** Questions to consider:
- Do any of the data points exceed the minimum or maximum criteria allowed? (Yes suggests impairment)
 - Do any of the data points above the red line have exceeded the maximum TP levels set by the WQ criteria
 - Are there any trends in your data points? What is causing these trends? [decreased/increased inputs, seasonal pollutant input changes, other conditions?]
 - Do any of the data points look like outliers that do not follow the trend of the graph (and should be ignored)?
- TP levels appear to be increasing over time. However, this is likely because the amount of phosphorous in the soil builds up over the growing season, so higher levels are present in the runoff later in the year. This is a seasonal effect that occurs every year, and does not necessarily mean that water quality is degrading.
- Do any of the data points look like outliers that do not follow the trend of the graph (and should be ignored)?
- Not in this example. In some (other) cases, however, if most data points are below the criteria line but one exceeds it, this may simply be an outlier due to some unique event, and may not mean that the water quality is actually impaired



Reminders

1. Additional WQX Help – Pyramid Lake Paiute Tribe

- Contact your CWA 106 Project Officer for more details

2. Region 9's Tribal CWA Website :

- URL: <http://www.epa.gov/region9/water/tribal/cwa-reporting.html>



Contact Information

If you have any questions, please contact:

- Audrey L. Johnson
 - johnson.audreyl@epa.gov, 415-972-3431
- Christopher Chen
 - chen.christopher@epa.gov, 415-972-3442
- Janis Gomes
 - gomes.janis@epa.gov, 415-972-3517
- Mariela Lopez
 - lopez.mariela@epa.gov, 415-972-3771



Questions???