



Joint-Tribal WQX Project and Collaborating with other Tribes in Oklahoma

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2015 Exchange Network National Meeting

Supporting the Business of Environmental Protection

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http://www.exchangenetwork.net/en2015

ABSTRACT

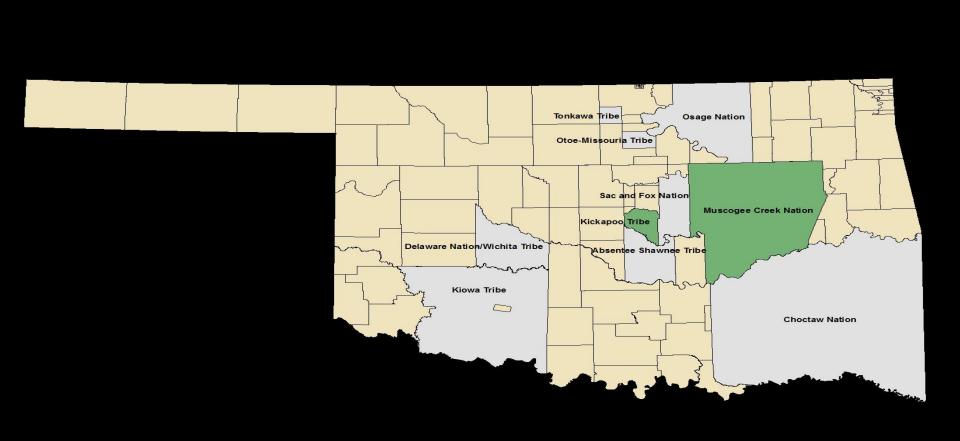
The scope of the project involve the Kickapoo Tribe of Oklahoma securing EPA Region 6 funds under their Clean Water Act section 106 grant to secure a long term WQX web-based solution along with nine (9) other tribes (i.e., Absentee Shawnee, Osage, Tonkawa, Otoe-Missouria, Choctaw, Delaware, Kiowa, Wichita and Affiliated Tribes and Sac and Fox) that would support the flow of tribal water quality data into EPA's WQX system. As a result, Open Environment and Muscogee (Creek) Nation met the tribes' objective as outlined in the presentation.

Overview

- KTO/MCN Background
- Problem
- Timeline
- Project Description
- Expected Outcomes

KTO/MCN

- The Kickapoo Tribe (KTO) is located in central Oklahoma, near the boundaries of the Absentee Shawnee Tribe, Citizen Potawatomi Nation, Sac & Fox Nation and Iowa Tribe
 - Over 5,000 acres of tribal trust and allotted lands extend into Lincoln, Pottawatomie, and Oklahoma Counties
 - > Approx. 2,689 Tribal members
- The Muscogee Creek Nation (MCN) is located in East-Central Oklahoma with 11 counties of tribal jurisdiction
 - > Over 6,000 acres of trust land and 127,000 allotted lands
 - > With approximately 78,310 tribal members



Problem

- Eight (8) out of ten (10) tribes received technical support to utilize a web-based water quality data management under a former Exchange Network Grantee...until grant agreement expired in September 2014...tribes weren't ready to budget vendor's maintenance cost and TA
 - > Some tribal capacity-building was only data entry
 - > Tribes were not expected to pay for a long-term cost
 - Most CWA 106 grants require data upload into STORET

Timeline

- Problem reported to EPA Water Quality Division June 2014
- EPA requested R6 RTOC to select one (1) tribe to assist with project management of hosting fees toward a WQX web data management....Kickapoo Tribe of OK
- KTO sent a RFP to four (4) different vendors in Nov 2014
- KTO selected Open Environment in partnership with the MCN in Dec 2014
- Signed a contract in Jan 2015

Project Description

- Open Waters (Open Source) Flexible Water Quality Management Solution
- Data Management/Node solution all-in-one; Most are 2 step process where node and data management are 2 separate applications
- Administer Node/User Log-ins
- Tribe completely controls data and data submission
- Tools and mapping to analyze data

Project Description



Figure 1: Proposed Solution



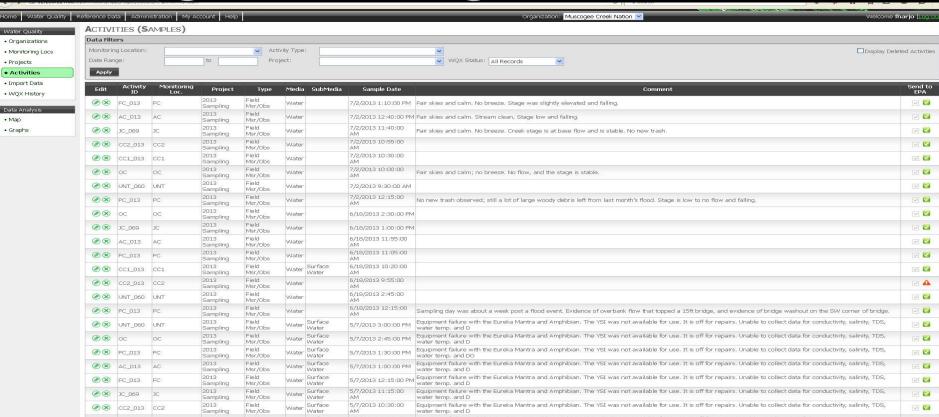
Open Waters: Water Quality Management

Step 1: Create Account

Step 2: Create or join an organization



Begin entering data

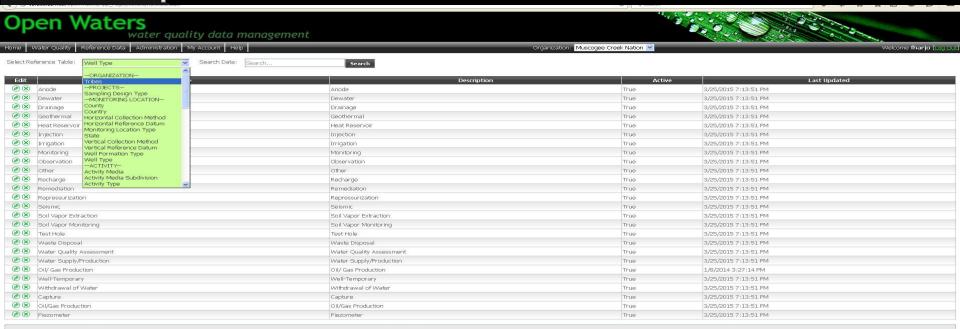


Open Waters Features



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Open Waters Features



Open Waters Features



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Expected Outcomes

- No hosting or maintenance cost
- Utilize free open-source software; Collaboration
- Ease-of-use: Water Quality Database and Submission all-inone

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