



Klamath River TMDLs Action Plans

Comprehensive Watershed Stewardship for the Basin

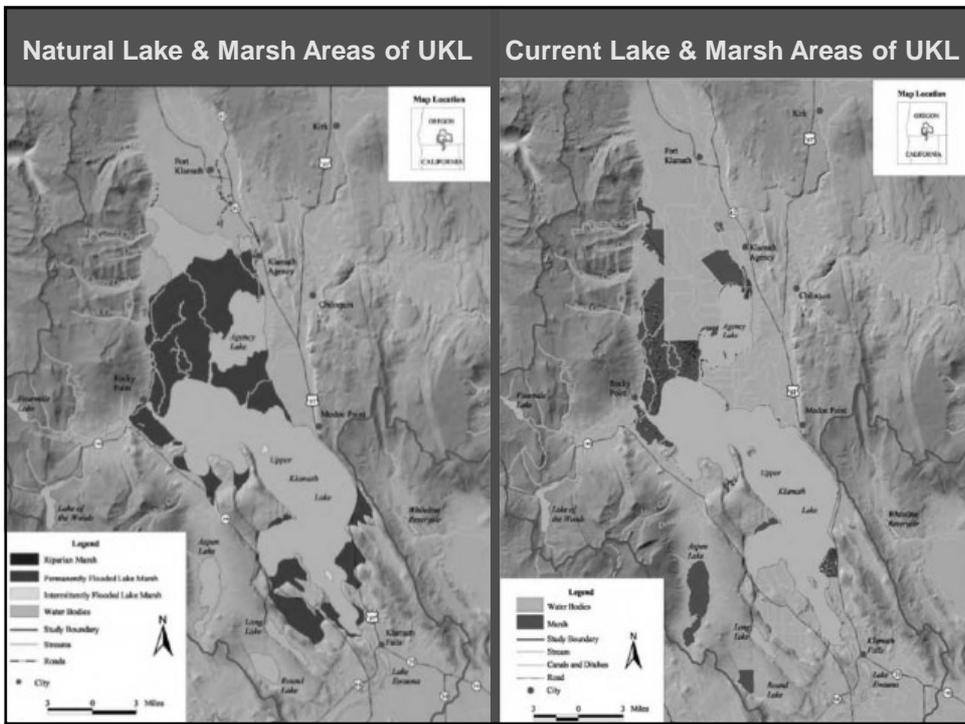
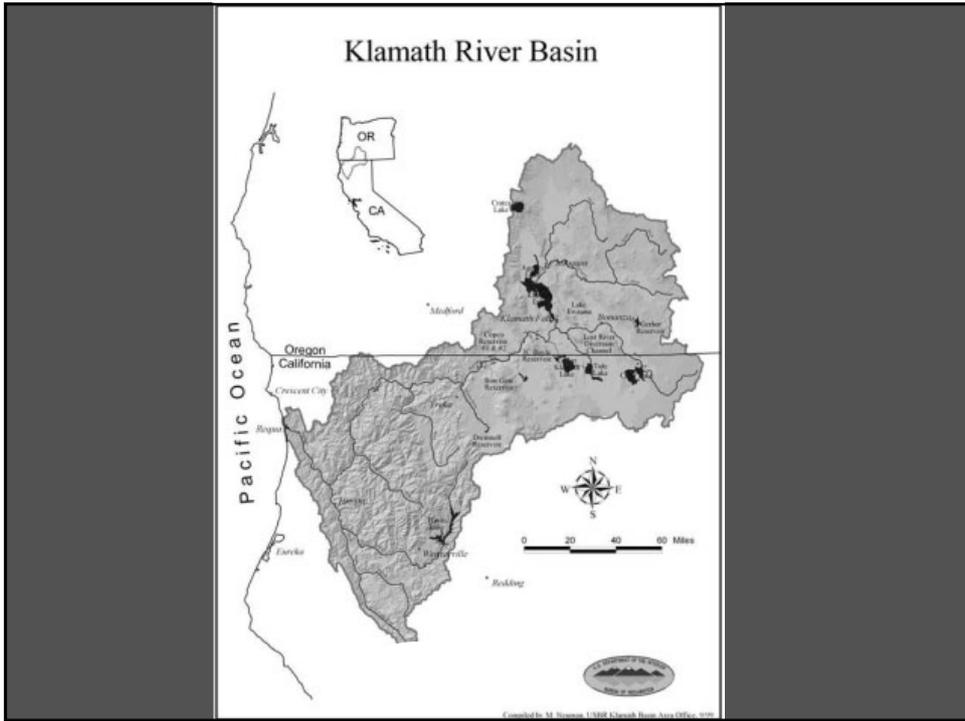
**Restoring Water Quality and Aquatic Ecosystems
Sacramento, CA
February 8-9, 2012**

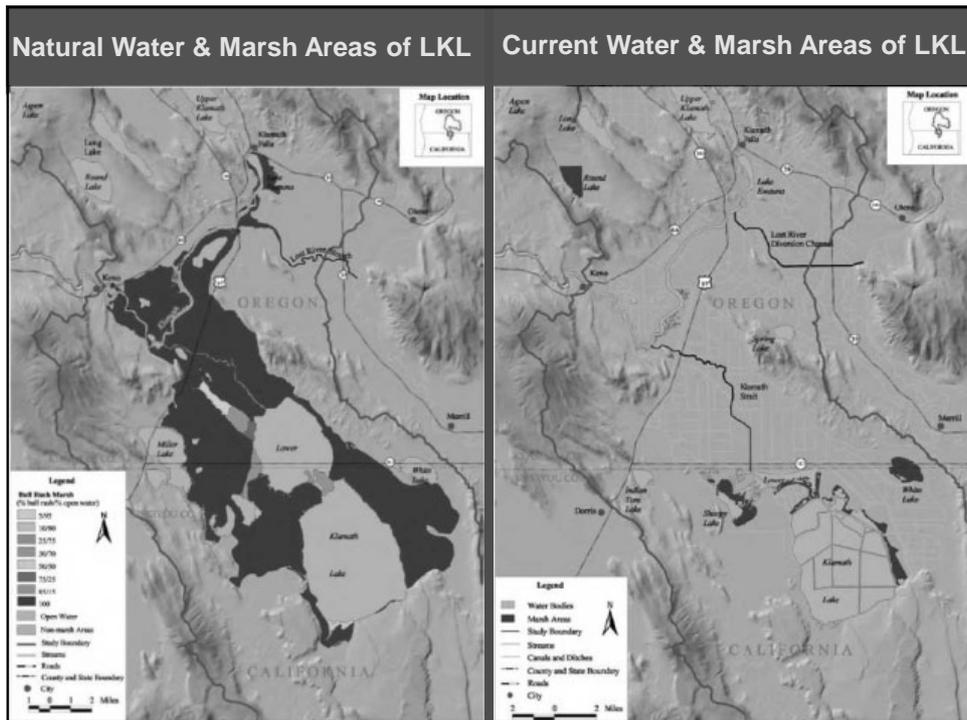


Presentation Overview

- **Klamath Basin – Legacy WQ Impacts**
- **KHSA, KBRA, and the Secretarial Determination Process**
- **Implementation Activities Summary**
- **Watershed Stewardship Framework**
- **Conclusions and Challenges**







Basin-wide Implementation Strategy

- Klamath / Lost Rivers TMDL Implementation Memorandum of Agreement (June 2009) working with partners on two strategic tracks:
 - 1) Development of programs to work with individual entities site by site using traditional nonpoint source best management practices; and
 - 2) Large-scale pollutant reduction projects addressing legacy pollutants and restoring lost ecosystem functions

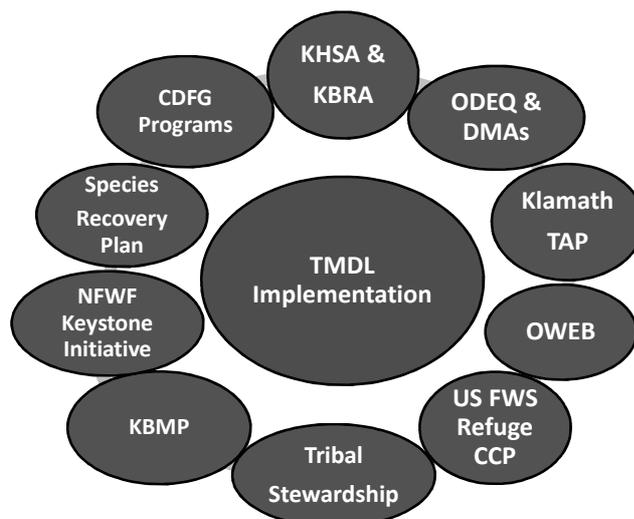


Secretarial Determination Process

- Klamath Hydroelectric Settlement Agreement
- Klamath Basin Restoration Agreement
- Regional Water Board not signatory to the agreements but we are active in planning and assessment process
- Draft EIS / EIR & CEQA for facilities removal is being finalized
- EIS / EIR findings are consistent with the TMDL on the water quality impacts of dams and that water quality improvements are possible



Concurrent Activities in Klamath Basin



TMDLs are just one of many ongoing environmental initiatives!





Watershed Stewardship

- Based on the premise that we can achieve diverse outcomes from a common management approach.
- Stewardship is “the careful and responsible management of something entrusted to one’s care.”
- Stewardship objectives include: water quality, water supply, communities, agriculture, biodiversity, fisheries, among others.
- Initial meeting with prospective stewardship partners was very promising



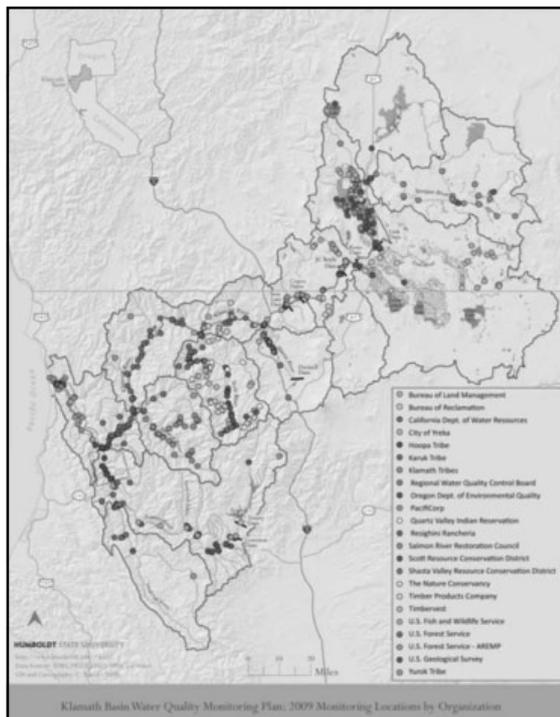
Traditional Regional Water Board NPS Programs Contributing to Klamath River TMDL Implementation

- Irrigated Lands Discharge Program
- Dry-land Grazing: SWRCB process
- Waiver for Private Land - Timber Waiver
- Waiver for USFS Land - Federal Timber Waiver
- Five Counties Salmonid Conservation Program (5C) – County Roads Program



Other Elements of Klamath River TMDL Implementation Action Plan

- Klamath Basin Monitoring Program
- Klamath Tracking and Accounting Program
- Klamath Hydropower Settlement Agreement Interim Measures
 - ✓ Interim Measure 10 – Water Quality Workshop
 - ✓ Interim Measure 11 – Water quality Pilot Projects
 - ✓ Interim Measure 15 – Baseline and Public Health Monitoring



Klamath Basin Monitoring Program

- Monitoring coordination
- Common analytical methods and sampling protocols
- Data management
- Membership organization
- Watershed stewardship assessment reports
- Web Information Portal (Blue-green Algae Tracker)
- www.kbmp.net



Klamath Basin Water Quality Improvement Tracking & Accounting Program (Klamath TAP)

Klamath TAP Program Components

- **Load reduction metrics & credits**
- **Standardized tools and procedures to estimate load reductions from actions**
- **Central registry to track quantified benefits**
- **Consistent protocols for credit quantification, validation, certification, registration**
- **Potential expansion to broader ecosystem services**





KHSA IM-10: Water Quality Workshop

- **Joint funding and support from PacifiCorp & CA State Coastal Conservancy, & CA Academy**
- **Transparent, cooperative strategy for evaluating large-scale projects**
- **Final product is 30% design document for those projects receiving favorable evaluation**
- **Will help to identify large-scale projects requiring collaborative funding.**



KHSA IM-11: WQ Pilot Projects

- **PacifiCorp funded**
 - ✓ **With affirmative determination funding will continue for projects approved by ODEQ and RWB**
 - ✓ **Draft Pilot project scoping reports due in February**
- **Water Quality Pilot Projects Include:**
 - ✓ **Klamath Tracking and Accounting Program**
 - ✓ **Treatment Wetlands Pilot**
 - ✓ **In-Reservoir Water Quality Control Techniques**
 - ✓ **JC Boyle Oxygenation Study**
 - ✓ **Organic Matter removal from Keno reach**





Conclusions & Challenges

- **NCRWQCB has successfully leveraged activities for TMDL implementation through several other initiatives and partners.**
 - ✓ **Current activities and additional necessary activities are not feasible with currently available resources**
- **Watershed Stewardship Framework provides opportunity for comprehensive progress for TMDL implementation**
 - ✓ **Requires an unprecedented level of collaboration**

