

# Illinois River Watershed Project Overview

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Tahlequah, Oklahoma  
April 26, 2012



Image from U.S. EPA Region 6 - Water Quality and Biological Assessment Selected Segments in the Illinois River and Kings River Basin, Arkansas



## Presentation Topics

- ❑ Background and Study Objectives
- ❑ Project Tasks Tentative Schedule



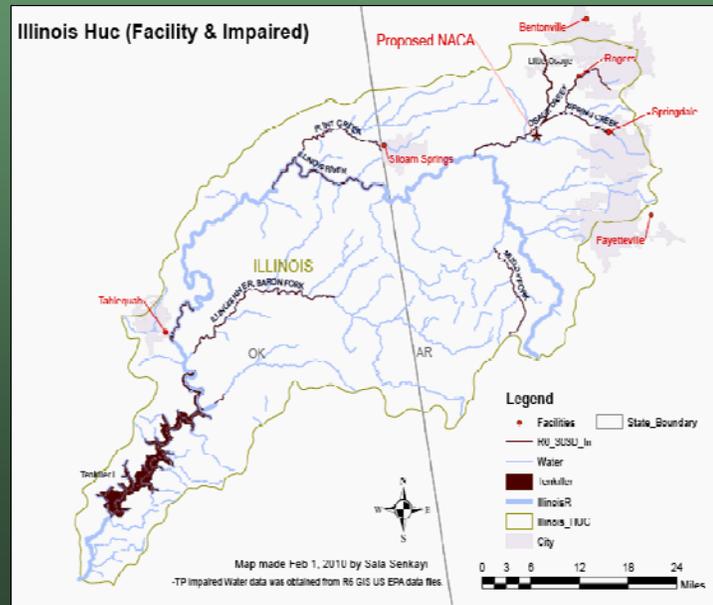
# Illinois River Watershed: Phosphorus Impaired Waters

## Oklahoma

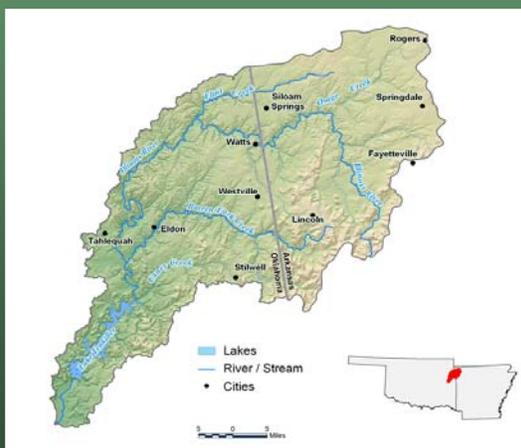
- Illinois River
- Illinois River, Baron Fork
- Flint Creek
- Lake Tenkiller

## Arkansas

- Osage Creek
- Spring Creek
- Muddy Fork



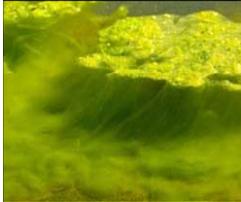
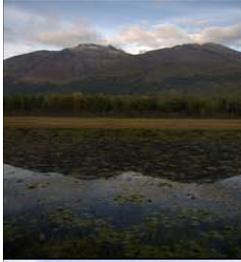
# Illinois River Watershed Modeling and TMDLs Development



- Modeling Covering Both States
  - Identify and quantify sources of nutrients in watershed
  - Quantify reductions needed to meet water quality goals
- May lead to one or more TMDLs in the watershed



# Working With Our Partners



## ➤ Partners in Project

- Oklahoma
- Arkansas
- Tribal Agencies
- Others Federal Agencies

## ➤ Stakeholder Outreach

- Federal Register Notice – Data Request
- Public Meetings -- Locations in the watershed  
(Ft .Smith, Siloam Springs, Tahlequah, Rogers)
- Input on project deliverables through State agencies

## ➤ Project website:

<http://www.epa.gov/region6/water/npdes/illinoisriverwatershed/index.htm>



# Project Tasks/Tentative Schedule

Activities	Timeline	Activities	Timeline
<ul style="list-style-type: none"> <li>• Development of Quality Assurance Project Plan (QAPP), GIS Database, Data Gap Report, WQ Model Recommendation Technical Memo, Draft Simulation Plan and Draft Modeling-QAPP</li> <li>• Model Setup</li> </ul>	<b>Completed</b>		
<ul style="list-style-type: none"> <li>• Watershed Calibration/Validation Modeling</li> </ul>	<b>June 2012</b>	<ul style="list-style-type: none"> <li>• Select/hire a neutral institution to convene a peer review panel</li> </ul>	<b>June 2012</b>
<ul style="list-style-type: none"> <li>• Lake Calibration/Validation Modeling</li> </ul>	<b>July 2012</b>	<ul style="list-style-type: none"> <li>• Select 3<sup>rd</sup> Party External Peer Reviewers</li> </ul>	<b>July 2012</b>
<ul style="list-style-type: none"> <li>• Sensitivity Analyses/Uncertainty Analyses</li> </ul>	<b>Oct 2012</b>		
<ul style="list-style-type: none"> <li>➤ Selection of Phosphorus Load reduction scenarios</li> </ul>	<b>Nov 2012</b>	<ul style="list-style-type: none"> <li>• External Peer Review Completion</li> </ul>	<b>Nov 2012</b>
<ul style="list-style-type: none"> <li>• Phosphorus Load Reduction Scenarios Modeling</li> </ul>	<b>Jan 2013</b>		
<ul style="list-style-type: none"> <li>• Draft TMDLs Development</li> </ul>	<b>April 2013</b>		
<ul style="list-style-type: none"> <li>• Public Notice Draft TMDLs</li> </ul>	<b>May 2013</b>		
<ul style="list-style-type: none"> <li>• Final TMDLs Development</li> </ul>	<b>Fall 2013</b>		



# Modeling Project Team

Project Lead: EPA Region 6 Permits & TMDL Branch, Water Quality Protection Division

- AQUA TERRA Consultants (Prime Contractor)
- Dynamic Solutions LLC (Sub-Contractor)



# Questions ?