Round 1

2025 OCWP Regional Meetings

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Southwest Altus August 15
Southeast Ada August 16
Northeast Claremore August 17
Northwest Woodward August 29
Central Oklahoma City August 30

Virtual August 18 and August 31







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Welcome



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OCWP Team Leaders



Julie Cunningham

Executive Director, OWRB



Amber Wooten

Project Manager, Carollo Engineers



Owen Mills

Director of Planning, OWRB



Jessica Fritsche

Senior Water Resource Planner, Carollo Engineers



Yohanes Sugeng

Engineering and Planning Division Chief, OWRB



John Rehring

Senior Water Resource Engineer, Carollo Engineers

Agenda

01	Welcome
02	Oklahoma Water Resources Board Overview
03	Oklahoma Comprehensive Water Plan Overview
04	Local Initiatives
05	2025 OCWP Preliminary Findings
06	Discussion: Water Management Needs and Concerns
07	Look-ahead / OCWP Roadmap

Goals for the OCWP Regional Meetings

Why and how we want you to participate!



Identify the most pressing local water issues and policy needs.



Guide the identification and deployment of solutions to those issues and needs.



Chart a course toward reliable, resilient water management locally and statewide.

Welcome



Acknowledge our local hosts



State Legislator remarks

02

OWRB Overview



OKLAHOMA Water Resources Board

OWRB Mission and Organization

To manage, protect and improve Oklahoma's water resources to meet long-term water supply, water quality, flood mitigation, and infrastructure needs.

Oklahoma Water Resources Board

Executive Director

Our primary responsibilities include water use appropriation and permitting, water monitoring, financial assistance for water/wastewater systems, dam safety, floodplain management, water supply planning, technical studies and research, and water resource mapping.

Administrative Services

Engineering and Planning

Financial Assistance

Water Rights Administration Water Quality Programs

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Financial Assistance

- AAA rates for water, wastewater, & storm water infrastructure financing
- Communities and rural districts
- Funds:
 - Clean Water State Revolving Fund
 - Drinking Water SRF (w/ ODEQ)
 - State Revenue Bond Loan Program
- REAP and Emergency Grants
- >\$6.5 billion in low interest financing since inception





- Federal EPA
- Debt Issuance
- Loan Repayments
- Interest on Bond Loan Program







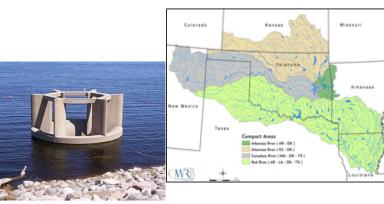
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Water Resources Management



- Water Rights Permitting & Administration
- Water Resources Planning
- Technical Hydrologic Investigations- water availability
- Well Drillers & Pump Installers Licensing
- Interstate Stream Compacts









OCWP 2025

Hazard Mitigation



 Floodplain Management – State Floodplain Board and National Flood Insurance & Cooperating Technical Partners Programs Coordinating Agency

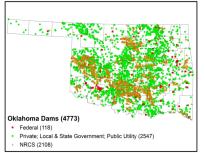
Dam Safety

Permitting, Inspection, and Technical Assistance

Dam Breach Inundation Mapping & Analyses

> Owner/Engineer Training and Outreach





2025

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Ground & Surface Water Quality

- Monitoring Networks
 - Streams
 - Lakes
 - Groundwater wells
 - Stream Gaging Program
 - > Technical Studies

Water Data Management & Dissemination









OKLAHOMA Water Resources Board

Water Rights (Permitting) - considerations

Permitted Groundwater

 Fresh water under the surface of the earth regardless of the geologic structure in which it is standing or moving outside the cut banks of any definite stream

Laws do not recognize interaction between SW and GW, except in sensitive sole source groundwater basins

A "sensitive sole source groundwater basin" as "a major groundwater basin or subbasin all or a portion of which has been designated as a Sole Source Aquifer' by the United States Environmental Protection Agency ... and any portion of any contiguous aquifer located within five (5) miles of the known areal extent of the surface outcrop of the sensitive sole source groundwater basin."

Permitted Surface Water

- Water in a "**definite stream**" (a watercourse in a definite, natural channel, with defined beds and banks, originating from a definite source or sources of supply);
- May be intermittent or irregular flow
- Subject to appropriation

Domestic Use

 The use of water by a natural individual or by a family or household for household purposes, for farm and domestic animals up to the normal grazing capacity of the land whether or not the animals are actually owned by such natural individual or family, and for the irrigation of land not exceeding a total of three (3) acres in area for the growing of gardens, orchards, and lawns. ••••

Groundwater Basics

- Groundwater is considered private property that belongs to the overlying land, although it is subject to reasonable regulation by the OWRB.
- Maximum Annual Yield (MAY) is a determination by the Board of the total amount of fresh groundwater that can be produced from a basin or subbasin allowing a minimum 20year life.
- Each landowner has right to an Equal Proportionate Share (EPS) of MAY equal to his/her ownership of land over the basin.
- Notice of intent to drill groundwater well for non-domestic use
- Current groundwater law was established in 1973 as a utilization law.
 - Created for economic development
 - Mining law that allows for the depletion of the resource



https://owrb.maps.arcgis.com/

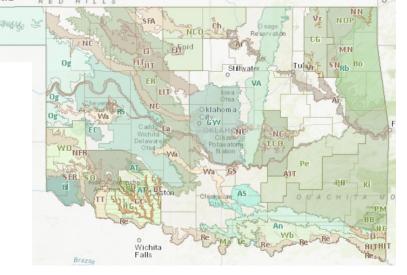


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Groundwater Permitting

The Board **shall approve** the application and issue the appropriate permit if the following are met:

- 1. The applicant owns or leases the land from which the water will be withdrawn
- 2. The dedicated land overlies a groundwater basin
- 3. The water will be put to a beneficial use
- 4. Waste of the water will not occur



https://owrb.maps.arcgis.com/

Beneficial Use

• The use of such quantity of stream or groundwater when reasonable intelligence and reasonable diligence are exercised in its application for a lawful purpose and as is economically necessary for that purpose. Beneficial uses include but are not limited to municipal, industrial, agricultural, irrigation, recreation, fish and wildlife, etc.

Surface Water Basics

- Stream water is considered to be publicly-owned and subject to appropriation by the OWRB.
- Prior Appropriation State— Priority in time gives the better right
 - First person to apply for the water right establishes a right superior to later appropriators
- Subject to use-it-or-lose-it provisions.
- OWRB charged with determining if unappropriated water is available prior to permit issuance and addressing interference conflicts after issuance.
- Must justify beneficial use and submit calculation on methodology and supporting data for justification



https://owrb.maps.arcgis.com/

Surface Water Permitting

The Board shall issue permit if the following are met:

- 1. Unappropriated water is available in amount applied for
- 2. There is a present or future need for the water
- 3. The use is beneficial
- 4. Use will not interfere with domestic or existing uses
- 5. Use will not interfere with uses within stream system of origin



https://owrb.maps.arcgis.com/

- Avoid speculation before and after permit is issued
- Is water available at proposed diversion point in needed amount?
- Will proposed diversion interfere with downstream domestic uses and prior appropriations?

03

OCWP Overview



Boldly define, address, and resolve Oklahoma's water challenges"

OCWP 2025 Vision



Together, we can chart a course for water that supports thriving communities, robust agriculture, economic and industrial success, and healthy waterways and ecosystems!"

> **Owen Mills OWRB Director of Planning August 2023 OCWP Newsletter**

Focus Areas for OCWP 2025

Identify basins with projected water challenges or opportunities

Identify and **recommend** water management strategies

Identify infrastructure investment needs & financial solutions

Advance 2012 OCWP Policy Recommendations

Integrate Oklahoma's first statewide Flood Plan

Conduct focused engagement throughout the process

Provide greater access to OCWP deliverables

Approach for OCWP 2025

Narrow OCWP Focus to Key Issues

Build from Local Input

Integrate with State Flood Plan

Organize through a Phased Workflow

OCWP 2025 Timeline

5 Phases of OCWP Development



1. Plan - Programmatic Work Plan and Engagement Plan

Continuous



2. Analyze - Water supply, demand, and quality data: surveys, modeling, forecasting



3. Develop - Recommendations, water management strategies, resilience assessment, local infrastructure needs, policy assessment

In Progress!



4. Rollout - Legislative recommendations, Reports, OCWP online resources, financial assistance recommendations, implementation plans, and more

2024-2025



5. Engagement - Share interim results and solicit input: Review, Refine, Prioritize OCWP content

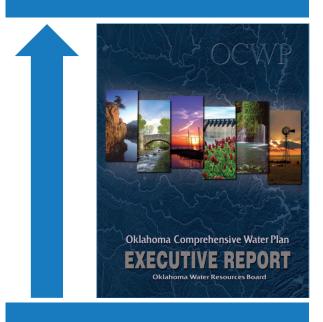
Continuous





2012 OCWP Stakeholder Input Reflected in Recommendations

OCWP 2012 Policy Recommendations



Stakeholder input when developing OCWP 2012



2012 OCWP Priority Policy Recommendations

Water Project & Infrastructure Financing

Conservation, Efficiency, Reuse

Water Quality & Quantity Monitoring

Supply Reliability

Fish & Recreation Flows

Excess/Surplus

State/Tribal Resolution

Regional Planning



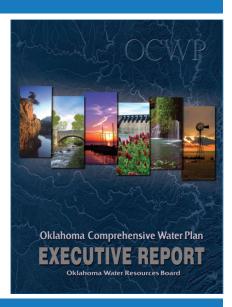
2012 OCWP Recommendations Drove Action

OCWP 2012 Policy Recommendations



Implementation Actions and Results





Stakeholder input when developing OCWP 2012



Actions and Results: Legislation and Collaborative Studies

Water for 2060 Act and committee recommendations

Water infrastructure financing under State Ouestion 764

GPT funding for OCWP implementation

Support to complete groundwater studies, monitoring, phased implementation for MAY & well spacing

Water Bank Development Strategy

Water Settlement Planning and Blue River ISF Economic Study

Upper Red and Upper Washita Studies

Illinois River Phosphorus WQ Standards Rulemaking Soil Health Economic Value Study Master Irrigators Program

Produced Water Chemical Characterization

GRDA Grand River Water Study and Operations Analyses HB3405 Use of Brackish or Marginal Groundwater

SB1219 Aquifer Storage Framework SB1043 Water Reuse Framework SB1294 Gradual Implementation of Groundwater Limits

HB2263 Irrigation
District Act

SB1875 Oil and Gas Produced Water Recycling Act

State Flood Plan



04

Local Initiatives



Local Successes: Water for 2060 Awards



SOUTHWEST OKLAHOMA

- American Water Enterprises, Lawton
- Waurika Lake Master Conservancy District

Do YOU have a success story to share?

- Submit for a Water for 2060 Award
- Present it at Regional Meeting 2 in December!

Local Successes: Water for 2060 Awards



SOUTHEAST OKLAHOMA

• Charlette Hearn, Oklahoma Water Pioneer

Do YOU have a success story to share?

- Submit for a Water for 2060 Award
- Present it at Regional Meeting 2 in December!

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Local Successes: Water for 2060 Awards



NORTHEAST OKLAHOMA

- Gary O'Neill, Retired State Conservationist for NRCS, Stillwater
- Creek County Rural Water District #2, Bellvue
- City of Bartlesville Indirect Potable Reuse System
- Victor Ranch, Afton

Do YOU have a success story to share?

- Submit for a Water for 2060 Award
- Present it at Regional Meeting 2 in December!

Local Successes: Water for 2060 Awards

NORTHWEST OKLAHOMA

- Jerod McDaniel, Agriculture Producer
- Pat Long, Agriculture Producer
- Fred Fischer, Agriculture Producer
- Jimmy Emmons, Agriculture Producer
- Darren Buck, Agriculture Producer
- Koch Fertilizer, Enid



- Submit for a Water for 2060 Award
- Present it at Regional Meeting 2 in December!



••• Local Successes: Water for 2060 Awards

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CENTRAL OKLAHOMA

- Arcadia Lake Water Treatment Plant, Edmond
- Coffee Creek Water Resource Recovery Facility, Edmond
- City of Edmond Water Storage Efficiency
- City of Oklahoma City Water Conservation Plan
- Newfield Exploration Company, Barton Water Recycling Facility
- Continental Resources Recycling Facility
- OGE Energy Corp. Mustang Station Water Reuse
- Oklahoma Strategic Alliance, OKC
- Norman Water Reclamation Facility



- Submit for a Water for 2060 Award
- Present it at Regional Meeting 2 in December!

05

2025 OCWP Preliminary Findings



2025 OCWP Preliminary Results Through Engagement and Data Collection



Water Supply and Infrastructure Needs (WSIN)



Clean Watersheds Needs Survey (CWNS)



Public Survey



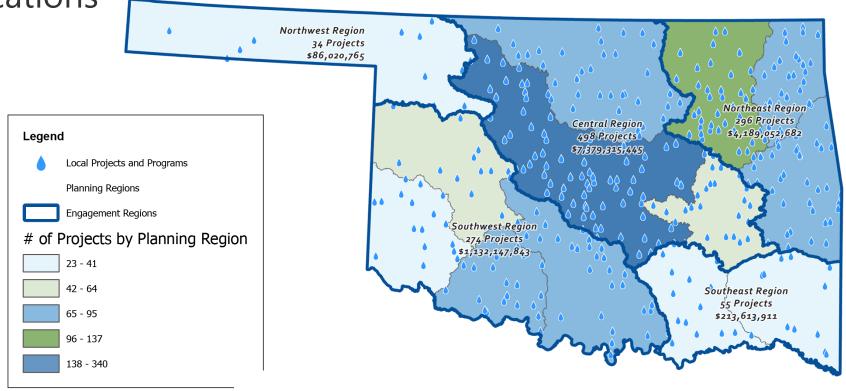
Workgroups





WSIN

Preliminary Results – Water Infrastructure Project Locations



*Estimated as of 7/31/23 – additional survey responses will be incorporated as they are received





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WSIN

Preliminary Results – Water Provider Infrastructure Funding Needs

Region	Count of Projects	Funding Needs (millions)
Northwest	34	\$86
Southwest	274	\$1,132
Central	498	\$7,379
Northeast	296	\$4,189
Southeast	55	\$214
Survey total	1,157*	\$13,000*

^{*}Estimated as of 7/31/23 – additional survey responses will be incorporated as they are received

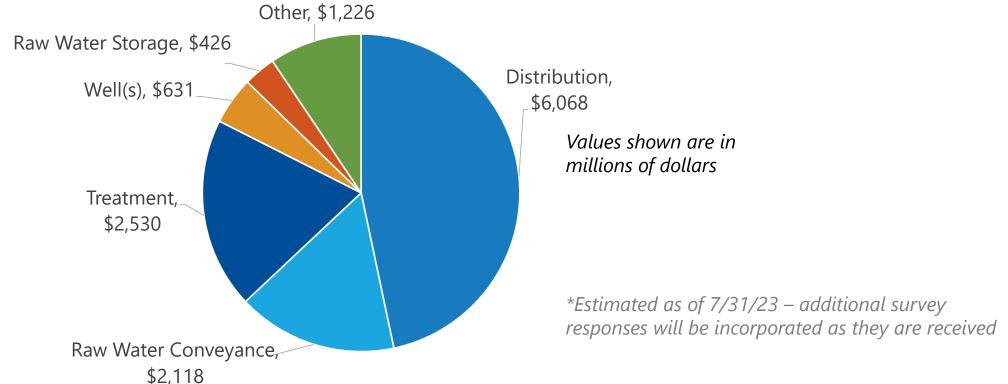




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WSIN

Preliminary Results – Water Provider Infrastructure Funding Needs by Project Type

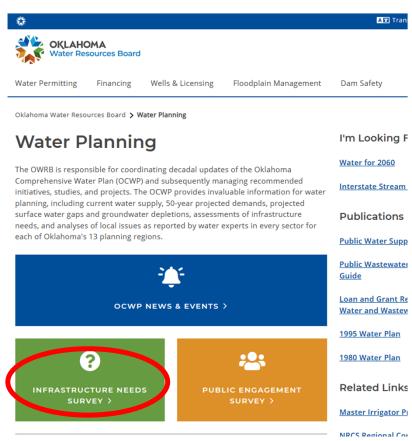






Its Not Too Late to Submit Your Utility Needs!





https://oklahoma.gov/owrb/water-planning.html

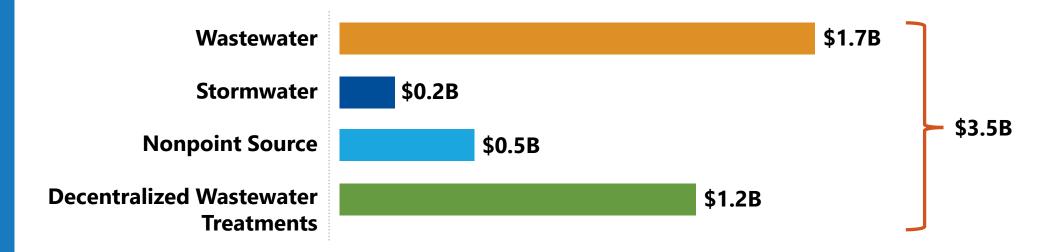




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Unpublished Results – Clean Watersheds Funding Needs by Category

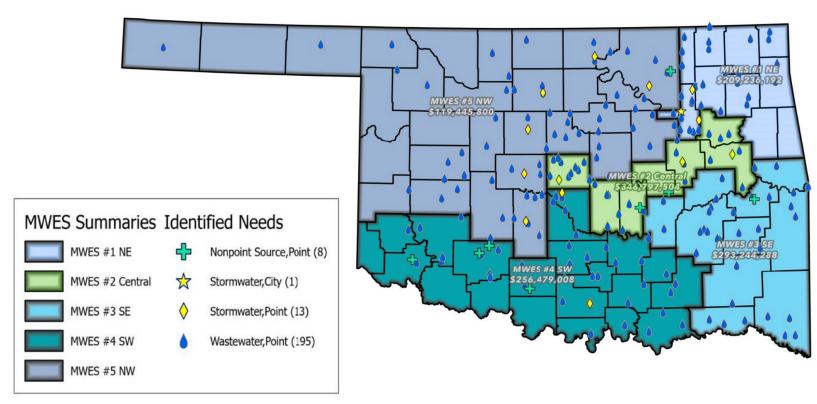




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CWNS

Unpublished Results – Clean Watersheds Funding Needs by Location



Public Perspective on Water 2025 OCWP Public Survey



Oklahoma Comprehensive Water Plan **Public Outreach Survey**

The Oklahoma Comprehensive Water Plan (OCWP) fulfills a requirement for the Oklahoma Water Resources Board (OWRB) to provide a general analysis of water supply across the state with guidelines for meeting Oklahoma's future water needs. OWRB is in the process of updating the OCWP, with an expected completion date of 2025.

A critical component of the OCWP is to engage the public to produce a plan that addresses the water-related challenges and needs that are most important to Oklahomans. We invite you to participate in this brief survey to help shape Oklahoma's water future.

- Any interested Oklahoman
- Opened in May 2023
- Still collecting responses

Public Survey

Broad Questions Targeting Opinions, Preferences, Concerns, and Values



- Priorities for managing Oklahoma's water
- Concerns over water shortages and drinking water quality (now or in the future)
- Concerns over the quality of rivers, streams, lakes for recreation and ecosystem health
- Relative importance of planning activities flood, drought, drinking water, ecosystems, climate change
- Support for a range of water supply strategies
- Where/how can OCWP provide most value

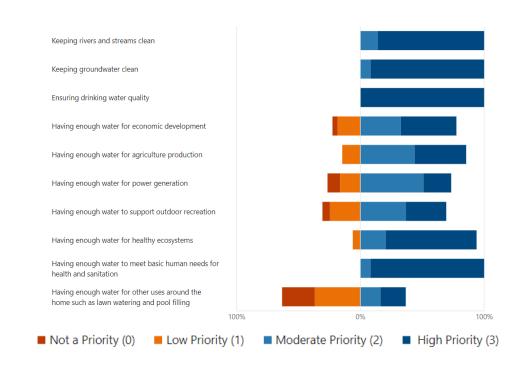
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Public Survey In-Progress Results



Top Priorities

- 1. Drinking water quality
- Water for basic human needs
- 3. Clean groundwater
- 4. Clean rivers and streams



Public Survey

Link on OWRB's Website to Take the Survey



Survey is open!

Focused Input Set the Foundation



INITIAL INPUT





Water Users: Priority Issues and Concerns (2021)

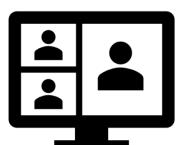
TOP ISSUES

- Infrastructure Improvements & Funding / Financing
- Coordination with established water planning groups
- Permitting / Regulations / Policy
- Regionalization
- Weather extremes
- Environmental/Instream Flows
- Staffing / Workforce Shortages

- Stormwater / Flooding
- Support from Agencies / Scientific Communities
- Support to Rural Communities
- Public Outreach & Education
- Sustainability
- Water Conservation
- Water Quality Issues
- Water Quantity Issues
- Water Reuse

Workgroups are Tackling Priority Issues







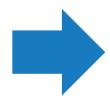
INITIAL INPUT

FORMED OCWP WORKGROUPS **FOR KEY ISSUES**

- Source Water Collaborative
- Oklahoma Water Reuse Action Plan
- Workforce
- Irrigated Agriculture

Water Users: **Priority Issues** and Concerns

ONGOING STAKEHOLDER MEETINGS



MORE TO COME

06

Discussion: Water Management Needs and Concerns



Discussion: Water Management Needs and Concerns

What are the key issues and needs in this part of Oklahoma?

What opportunities do we have here?

What solutions have worked well?

What additional studies are needed?

What information do you need to succeed?

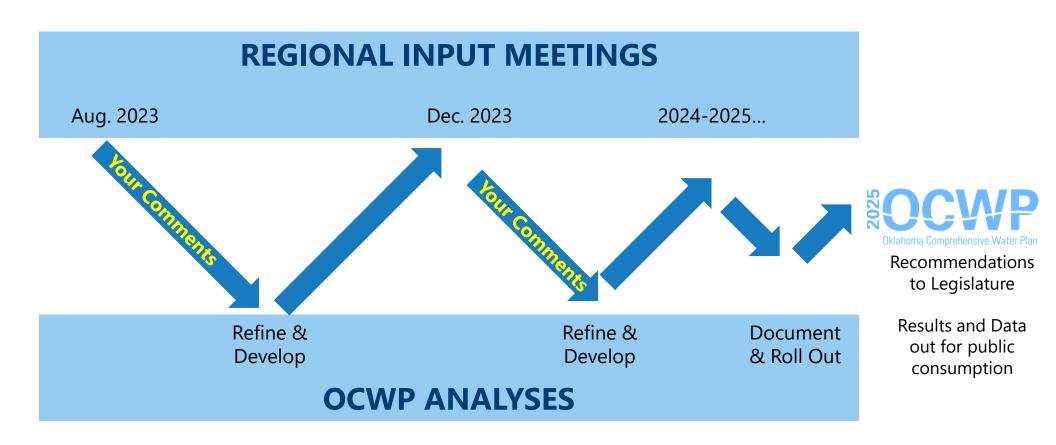
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Look-ahead / OCWP Roadmap

Owen Mills, OWRB



Path Forward: Integrating your input



Questions? Comments? Get involved!

Reach out to me!

Take the Surveys!



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Sign up for OCWP updates!

https://oklahoma.gov/owrb/water-planning.html



