

2025 **OCWP**

Oklahoma Comprehensive Water Plan

Oklahoma Water Reuse Action Plan

Shellie Chard, Water Quality Division Director
Oklahoma Department of Environmental Quality

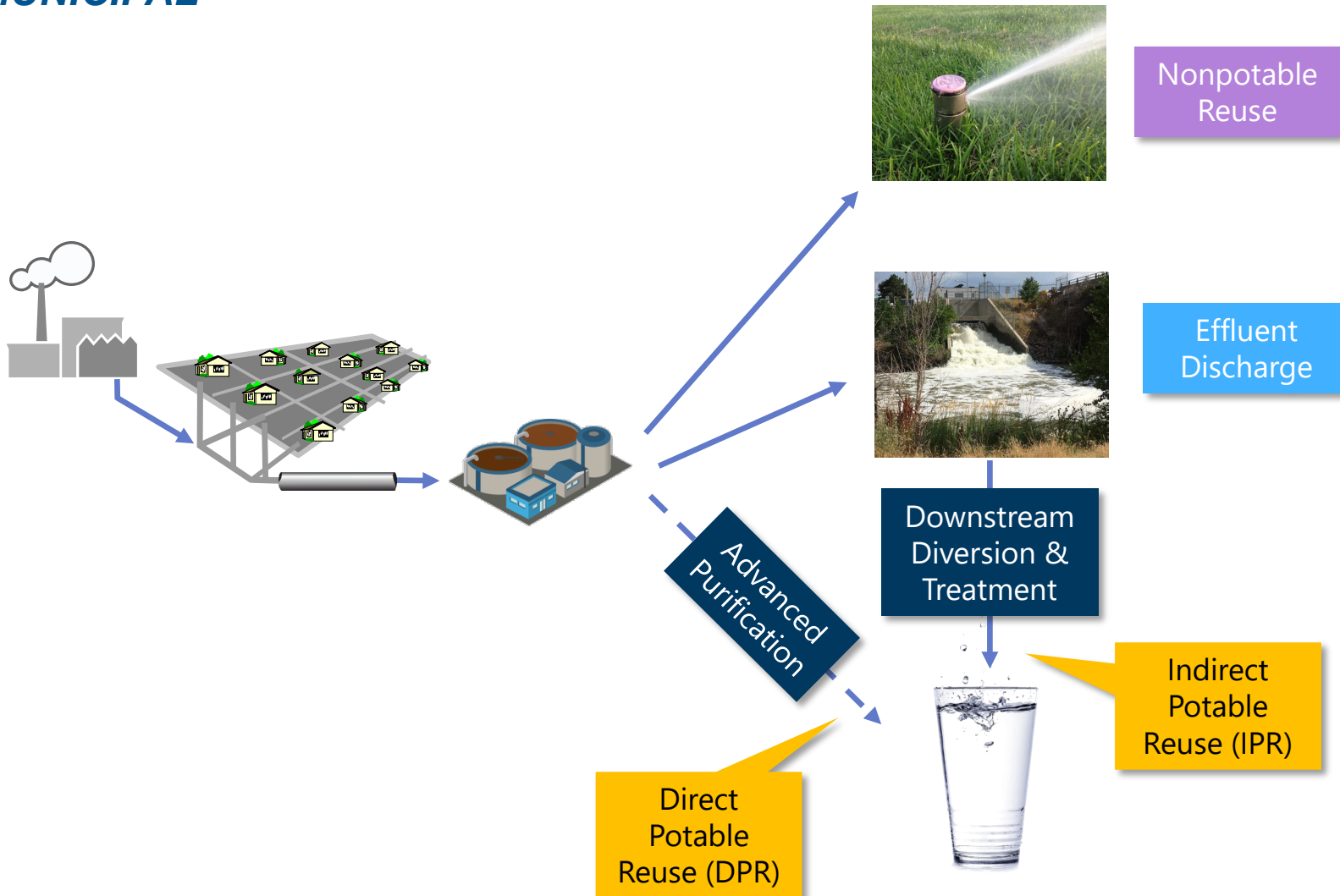


November 2023

OWRAP Background and Goals

Types of Water Reuse

MUNICIPAL



AG



ENERGY



INDUSTRIAL






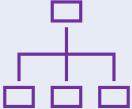
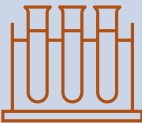
National Strategic Theme Areas in EPA's WRAP

- <https://www.epa.gov/water-reuse/national-water-reuse-action-plan-online-platform>

Finance Support
Integrated Research
Integrated Watershed Action
International Collaboration
Metrics for Success
Outreach and Communications
Policy Coordination
Science and Specifications
Technology Development and Validation
Water Information Availability
Workforce Development

OWRAP Components

Keys to Success for Reuse

Category	Example Components
 Regulatory	<ul style="list-style-type: none">• Treatment and water quality requirements• Water rights/downstream impacts
 Social	<ul style="list-style-type: none">• Outreach and community acceptance• Political/legislative engagement
 Economic	<ul style="list-style-type: none">• Funding/financing• Existing and potential incentives, grants, and financing options
 Organizational	<ul style="list-style-type: none">• Roles of agencies, NGOs, associations, and other collaborating organizations
 Technical and Training	<ul style="list-style-type: none">• Role of existing and new treatment/monitoring technologies• Technical assistance to utilities for process selection• Leveraging national-level research efforts

Components of the OWRAP

KEYS TO SUCCESS

REGULATORY



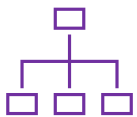
SOCIAL



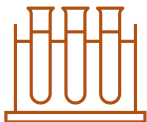
ECONOMIC



ORGANIZATIONAL



TECHNICAL



Drivers

- Primary reasons this is important for facilitating reuse in Oklahoma

Barriers

- Factors that could impede or constrain reuse implementation

Goals

- Target accomplishments for the OWRAP

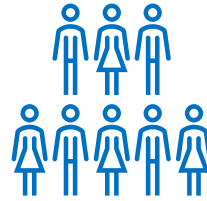
Actions

- Specific actions to help achieve the goals

The Heart of the OWRAP!

Example Drivers, Barriers, Goals, and Actions for one of the “Keys to Success”

SOCIAL



Drivers

- Opportunity for education on water supply challenges
- Opportunity for education on the value of water
- Financial support for reuse infrastructure

Barriers

- Public perception on safety and water quality of nontraditional sources of supply
- Lack of understanding and acceptance from the public
- Focus on water’s history instead of WQ

Goals

- Engage the public in understanding reuse drivers and benefits
- Earn legislative support

Actions

- Develop outreach work plan and communications tool kit
- Deploy the communications tool kit
- Tailor existing national education materials to Oklahoma audiences

Role of Subgroups

Develop drivers, barriers, goals, and actions

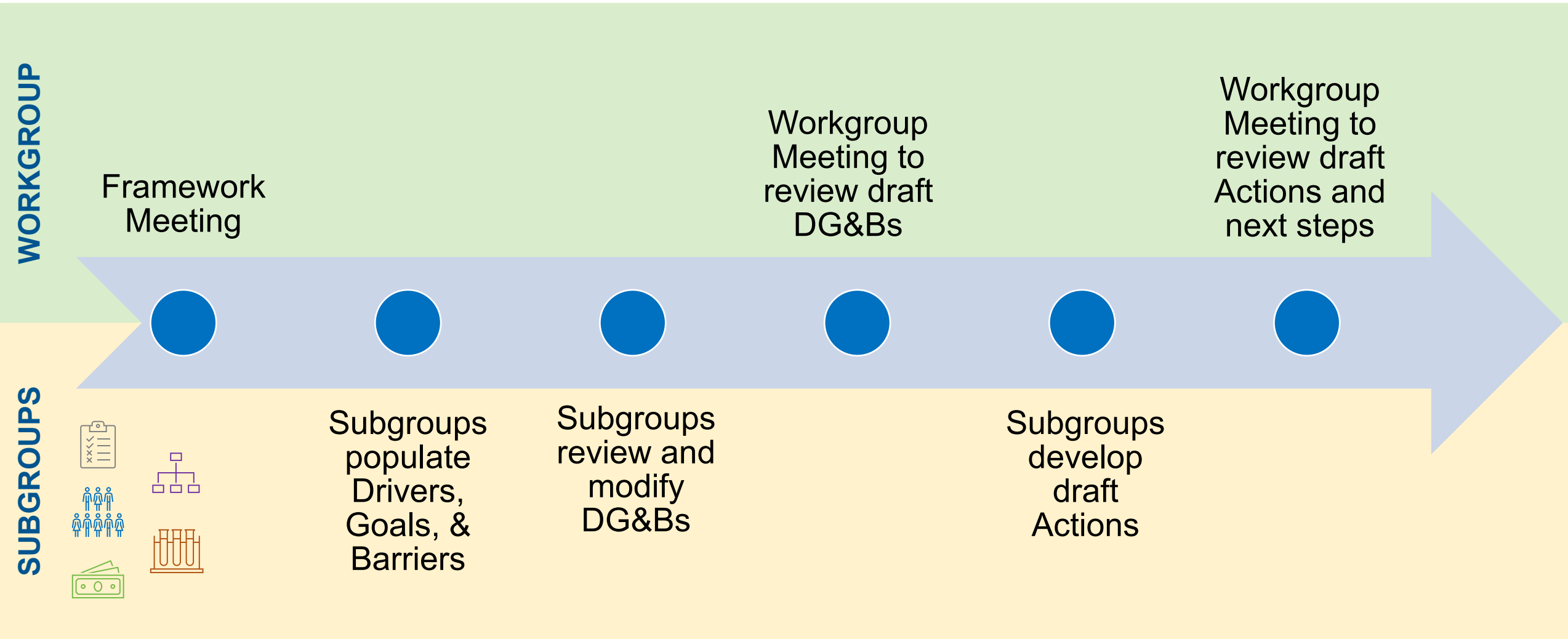
Assign timeline and responsibilities for each action

Support “doing” the Actions as appropriate

Help OWRB maintain the OWRAP

- Track progress on Actions
- Periodically update the OWRAP (e.g., add new Actions, mark off completed Actions)

Process for Developing the OWRAP



Synthesizing and Sorting the List of OWRAP Actions

Do priorities or timelines change when the Actions are compiled into a single list?

Implementation logistics

- Lead entity roles/responsibilities
- Shifting from "planning" to "process" for implementing Actions and creating a living process
- Are reviews / approvals of the Actions and lead entities needed?
- Next steps and timeline

OWRAP Documentation

OWRAP Documentation: November 2023



EXECUTIVE SUMMARY

Oklahoma Water Reuse Action Plan

FINAL | November 2023



Executive Summary

Oklahoma Water Reuse Action Plan Actions to Address Drivers, Barriers, and Goals REGULATORY ACTIONS

Subgroup Facilitator: John Rehring

- ID: R-## for "Regulatory-##." Sequential numeric tag for quick reference (not implying any order or priority).
- Priority: Relative importance, scored 1 (high) through 5 (low). 1 = urgent, 3 = moderate importance, 5 = low priority.
- Level of Effort: Relative effort required to complete the Action, scored 1 (low) through 5 (high).
- Target Timeline: Goal for time to complete the Action. Options include <2 years, 3-5 years, >5 years.

ID	Description	Priority (1 high - 5 low)	Level of Effort (1 low - 5 high)	Target Initiation Timeline (years)	Lead Agency / Entity	Supporting Agencies / Entities	Notes
R-01	Prepare concise guidance document or fact sheet summarizing current legal ability to reuse municipal return flows and receive credit for augmenting supplies with recycled water.	1	1	<2	OWRB	AG's office	
R-02	Evaluate options for defining water rights credit for augmenting surface water or groundwater through IPR for subsequent recovery.	1	3	<2	OWRB	USGS, Ag, 1-2 pilot municipal utilities.	High priority - IPR designed.
R-03	Assemble a work group of water users to evaluate whether the current administration of reuse of return flows sufficiently protects downstream water rights interests.	3	3	<2	OWRB	ORWA, DML, Ag, 2-4 municipal utility representatives	To follow R-01; in conjunction with
R-04	Evaluate what-if scenarios to assess water availability implications of additional reuse, using updated Oklahoma H ₂ O Tool.	2	2	<2	OWRB	NA	Tool developer OCWP developm
R-05	Develop DPR regulations.	4	5	TBD	ODEQ	TBD	No set schedule; implemented with case-by-case app
R-06	Develop and implement water rights credit system for return flows (including IPR projects).	2	3	3-5	OWRB	NA	Contingent on on-year process for
R-07	Assess water quality implications of reduced return flow discharges with respect to assimilative capacity of receiving waters.	4	5	>5	ODEQ	OWRB	Added per Feb. 2 dialogue; Conducted, when scenarios are bet
R-08	Establish/document DPR guidance and process for how ODEQ will approve DPR applications prior to DPR reg development, including reference to ODEQ white papers.	3	2	3-5	ODEQ	NA	Added per Feb. 2 dialogue.
R-09	Develop regulatory framework for reuse of agricultural water reuse.	3	4	3-5	ODEQ	ODAFF	Added per Feb. 2 dialogue.

**Living Database of
OWRAP Actions**



OKLAHOMA WATER REUSE ACTION PLAN ACTION O-01: INTERORGANIZATIONAL REUSE TEAM (IRT)

DRAFT OWRAP Action Fact Sheet

Date Updated: July 18, 2023
Updated By: Carolo (JPR)

Overview	
Name	O-01: Interorganizational Reuse Team (IRT)
Strategy Area	<input type="checkbox"/> Economic <input checked="" type="checkbox"/> Organizational <input type="checkbox"/> Regulatory <input type="checkbox"/> Social <input type="checkbox"/> Technical Priority (1 high - 5 low): 1
Summary	Create a top level Inter-organizational Reuse Team (IRT); Identify persons within each supporting agency with expertise and capacity to advance water reuse in Oklahoma.
Timeline	Target Initiation: <2 years
Lead Agency/Entity	OWRB
Supporting Agencies/Entities	ODEQ, ODAFF, OCC, OSEE, ORWA, ODWC, Dept. of Commerce, Dept. of Energy & Environment, public universities
Anticipated Cost and Funding Source	\$20K-\$30K (primarily in-kind); Funded by each agency/entity, facilitated by OWRB Level of Effort (1 low - 5 high): 2
Description	
Drivers	To meet anticipated timelines for public demand for reuse, there is a need for cross-agency cooperation and collaboration; Consistent approach and widespread messaging for reuse in Oklahoma; Leverage the numerous forms and levels of expertise between organizations; Collaborative initiatives can increase available funds for research, rulemaking, statutory requests, etc.
Barriers	Complex jurisdictional authorities between agencies; Competing interests and priorities between stakeholders within water sectors; Limited or no availability of staff resources to develop and administer new regulatory programs.
Goals	Alignment for consistent, collaborative interagency approaches to supporting and administering reuse systems, recognizing that well-run reuse programs are more likely to produce compliant, safe recycled water; Common understanding and policy to support "One Water" management strategies; Cross-functional development of reuse implementation pathways to help overcome social and economic challenges.
Action Description	Action O-01 seeks to provide an organizational structure necessary to move water reuse in Oklahoma to the forefront of conversations regarding water supply while soliciting feedback and ideas from parties who have a wide range of interests, needs, and backgrounds. Anticipated effort for Action O-01 includes coordination meetings and communications between interested parties; development of organizational charts and stakeholder analyses; documentation of discussions, decisions, and actions; and allocation of time and budget within individual organizations to support staff efforts in Action O-01.
Reference Documents and Files	

**Fact Sheets for
Prioritized Actions**