



Ecology Reclaimed Water Rule-Making Workshop

Washington State Reclaimed Water Rule
Chapter 173-219 WAC



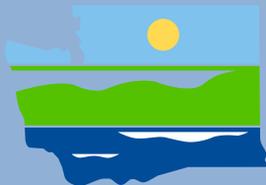
AGENDA July 14, 2014

Introductions – Local Logistics

Presentation

- Purpose of the Rule-Making
- Rule Making Process and Schedule
- Current Status of the Rule and Manual
- How to Participate in the Process

Question and Answer



DEPARTMENT OF
ECOLOGY
State of Washington

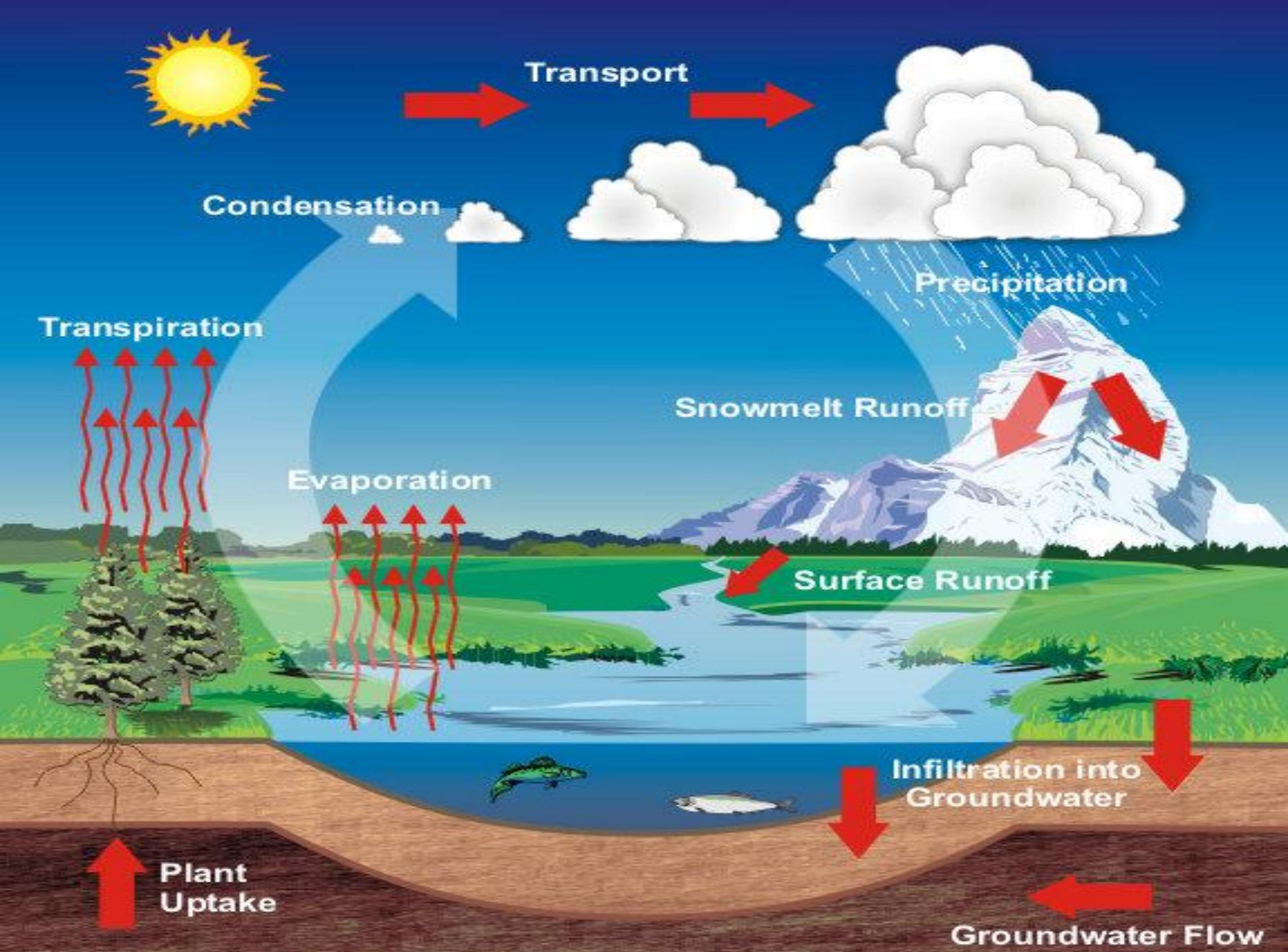


Washington State Department of
Health

Washington State Reclaimed Water Rule Chapter 173-219 WAC

Dennis McDonald
Reclaimed Water
Rule Coordinator
(360) 407-6321
reclaimedwater@ecy.wa.gov





Today's Presentation

Purpose for Rule-Making

Rule Making Process

Rule & Manual Content

Public Participation



Purpose of Rule-Making

Legislative Mandate (Chapter 90.46 RCW Reclaimed Water)

- Ecology, in coordination with Department of Health, adopt Rules to:
 - Encourage the use of Reclaimed Water
 - Preserve Potable Water
 - Contribute to Instream Flows and Wetlands
 - Reduce Discharges to Puget Sound
 - Respond to Growth and Climate Change

What is Reclaimed Water?

Water derived in any part from wastewater with a domestic wastewater component that has been adequately and reliably treated, so that it can be used for beneficial purposes.

Chapter 90.46 RCW



Reclaimed Water Beneficial Uses

**Recreational Field
Irrigation**



**Agricultural Irrigation
(Food Crops/Livestock)**



Golf Courses



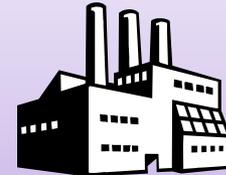
**Impoundments
(Landscaping/
Snowmaking)**



**Environmental
(Wetlands/Streams)**



Industrial

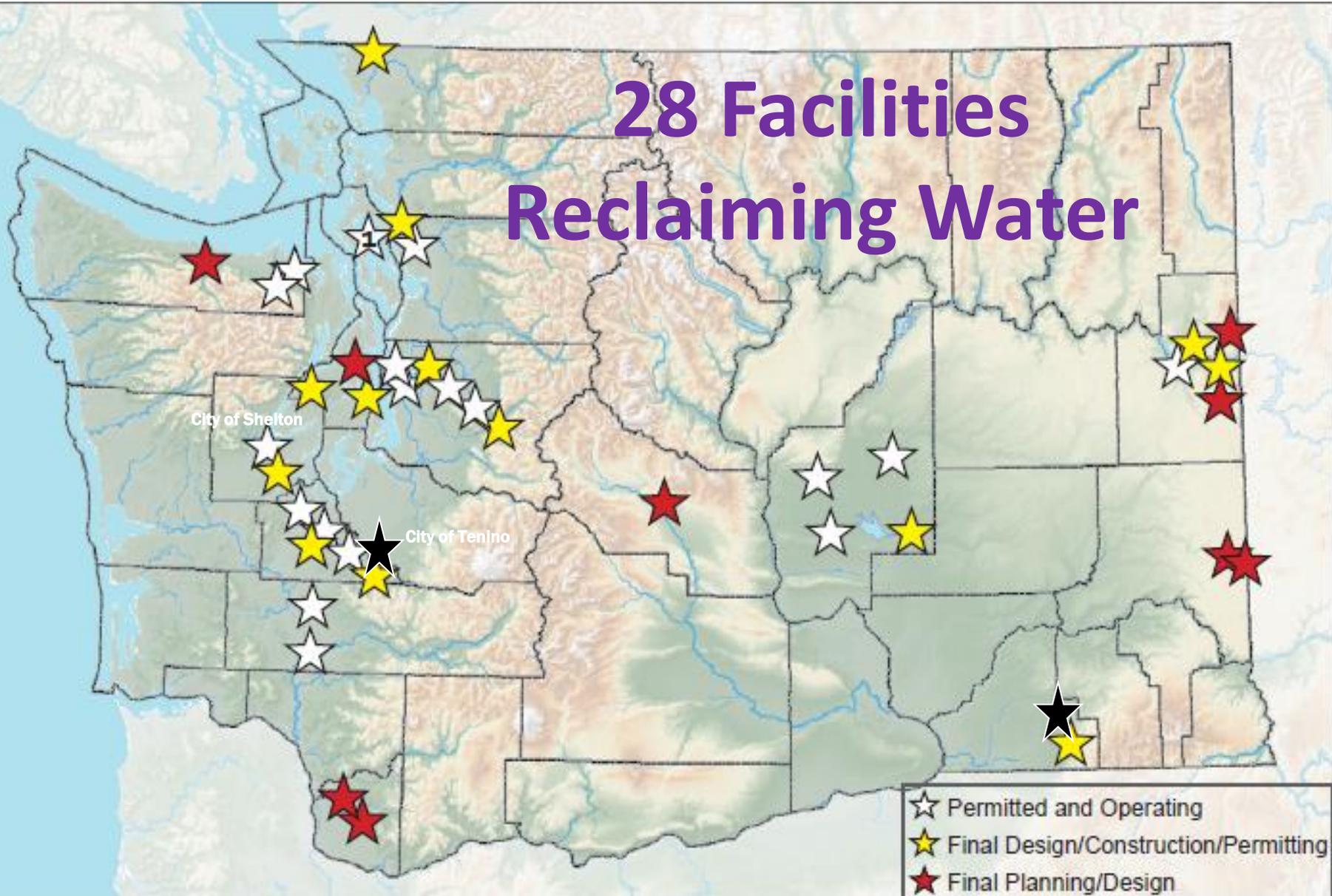


Ground Recharge



Reclaimed Water Facilities

**28 Facilities
Reclaiming Water**



Purpose for Rule-Making

Rule Making Process

Rule & Manual Content

Public Participation



Rule-Making Process

Planning
Phase

CR-101

Drafting/
Proposal
Phase

- Advisory Committee

Public
Comment
Phase

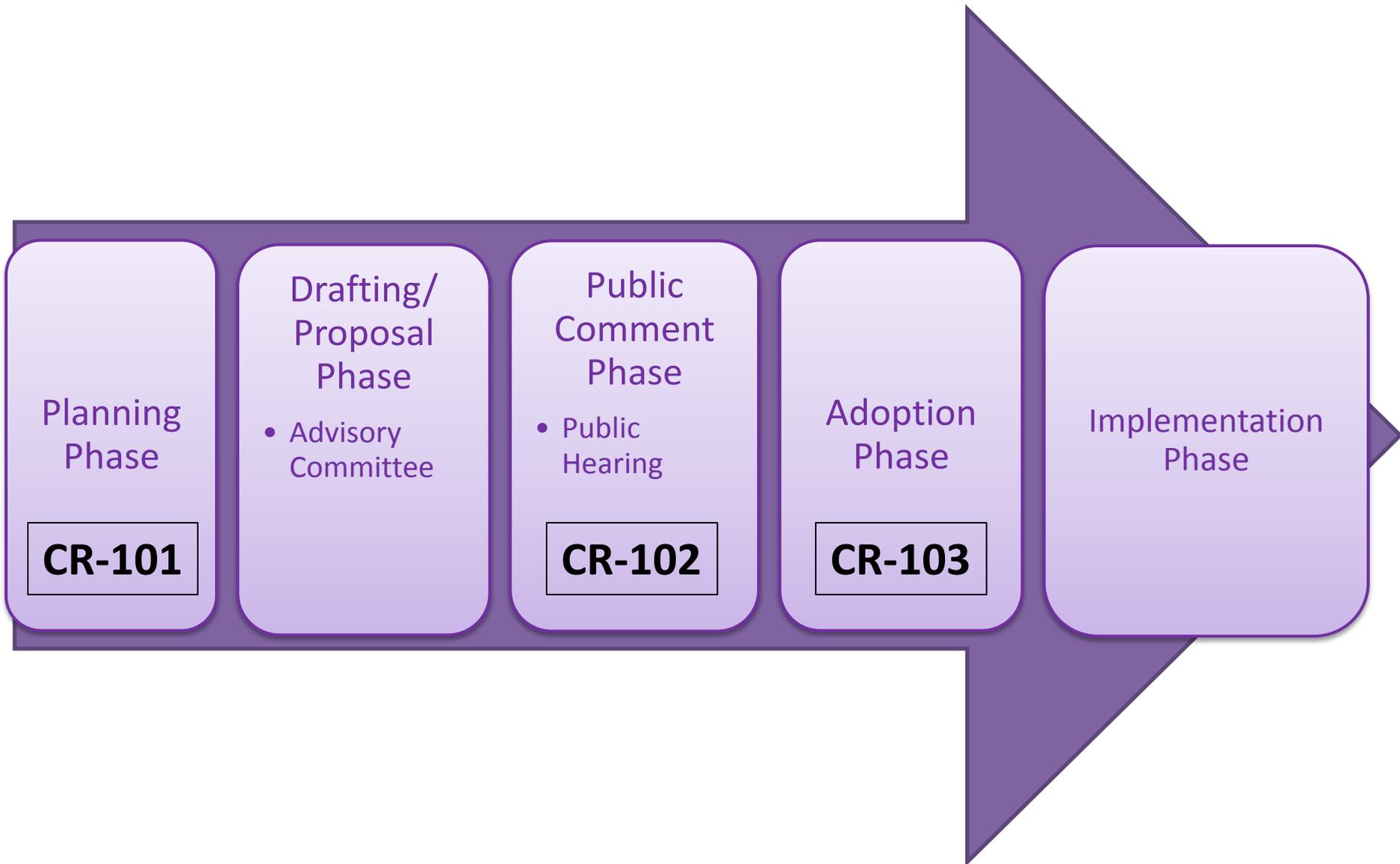
- Public Hearing

CR-102

Adoption
Phase

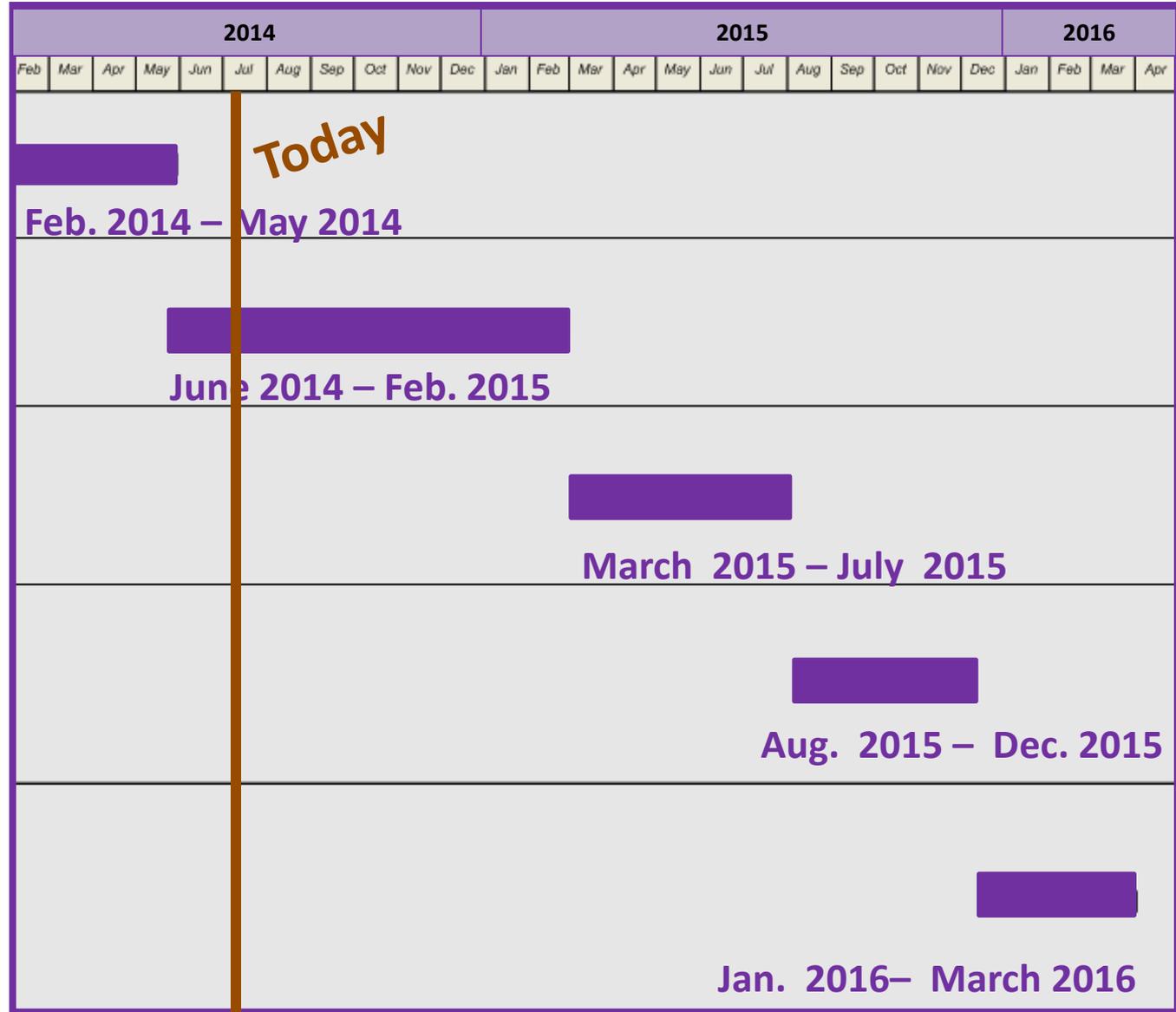
CR-103

Implementation
Phase



Rule Making Process - Schedule

- Planning
- Drafting
- Public
- Adoption
- Implement



Purpose for Rule-Making

Rule Making Process

Rule & Manual Content

Public Participation



Preliminary Draft Rule Content

Chapter 173-219 WAC Reclaimed Water

I. General Information

II. Planning, Design & Construction

III. Reclaimed Water Permits

IV. Technical Standards



Preliminary Draft Rule

I. General Information

- Definitions
- Purpose and Scope
- Applicability
- Compliance Deadlines
- Regulatory Agency Responsibilities
- Regulatory Action for Noncompliance
- Appeals



II. Planning, Design & Construction

Water Rights Considerations (Subpart A)

- Evaluation of Potential Impairment
 - “shall not impair any existing water right”
 - Evaluation Process
- Use of Reclaimed Water for Water Right Mitigation

Preliminary Draft Rule

II. Planning, Design & Construction

Construction (Subpart B)

- Documents for Review and Approval
 - Reclaimed Water Plans
 - Engineering Reports
 - Plans & Specifications
 - Operation & Maintenance Manual
 - Declaration of Construction

Preliminary Draft Rule

III. Reclaimed Water Permits

Permit Application and Procedures (Subpart A)

- Eligibility
- Fact Sheet
- Renewals or Modifications

Permit Terms and Conditions (Subpart B)

- Standard Conditions
- Specific Conditions

Preliminary Draft Rule

IV. Technical Standards

Technology-Base Treatment (Subpart A)

- Minimum Requirements
- Source Control & Pretreatment Requirements
- Class A
- Class B
- Disinfection Process Standards
- Treatment Reliability



Preliminary Draft Rule

IV. Technical Standards

Operational Storage & Distribution (Subpart B)

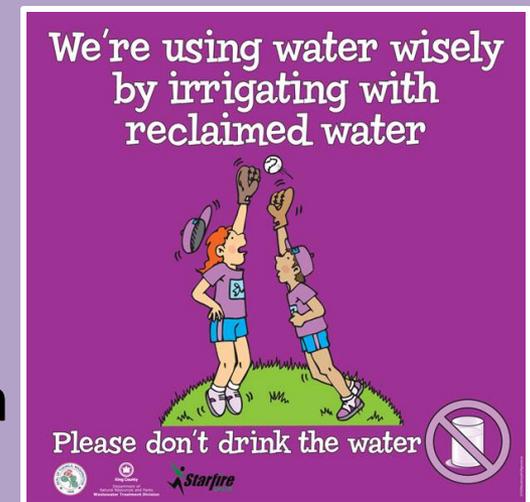
- Operational Storage
- Maintenance of Chlorine Residual
- Distribution System Requirements
- Distribution by Transport Vehicle
- Conveying Reclaimed Water through Surface Water of the State

Preliminary Draft Rule

IV. Technical Standards

Use-Based Requirements (Subpart C)

- Use Area Requirements
- Facility Maintenance Uses
- Commercial, Industrial & Institutional Uses
- Land Application
- Wetlands
- Streamflow & Surface Water Augmentation
- Ground Water Recharge
- Aquifer Storage and Recovery

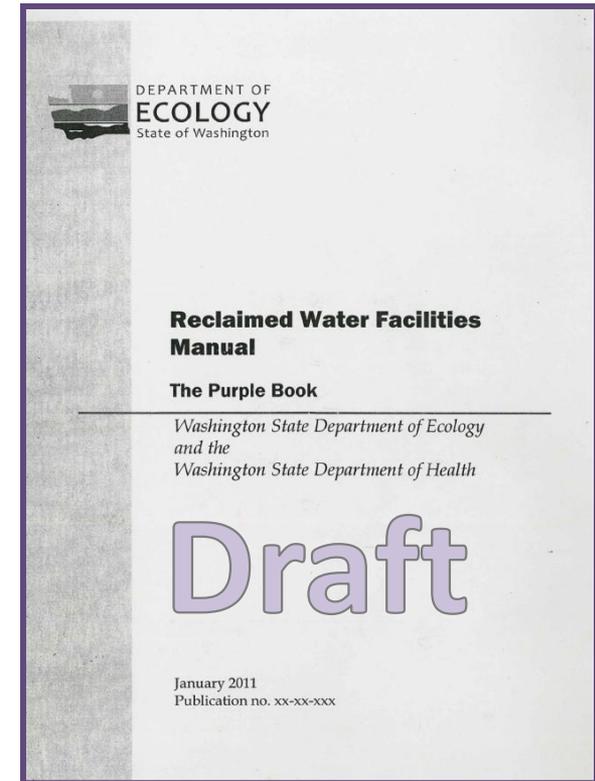


Manual Overview

Guidance Document
Intended to Clarify Rule

Details specific processes
and design criteria

Guidance to Meet State
Standards



Reclaimed Water Facilities Manual The Purple Book

Content

1. Introduction

2. Language

3. Regulatory Framework

4. Water Rights Impairment
Evaluation

5. Planning & Permitting

6. Treatment Technologies

7. Storage, Distribution & Use

8. Commercial, Industrial &
Institutional Uses

9. Land Applications/ Irrigation Uses

10. Wetlands

11. Streamflow & Surface Water

12. Groundwater Recharge

Purpose for Rule-Making

Rule Making Process

Rule & Manual Content

Public Participation



Public Participation

Drafting/Proposal Phase

- Advisory Committee
- Rule Language
- Manual



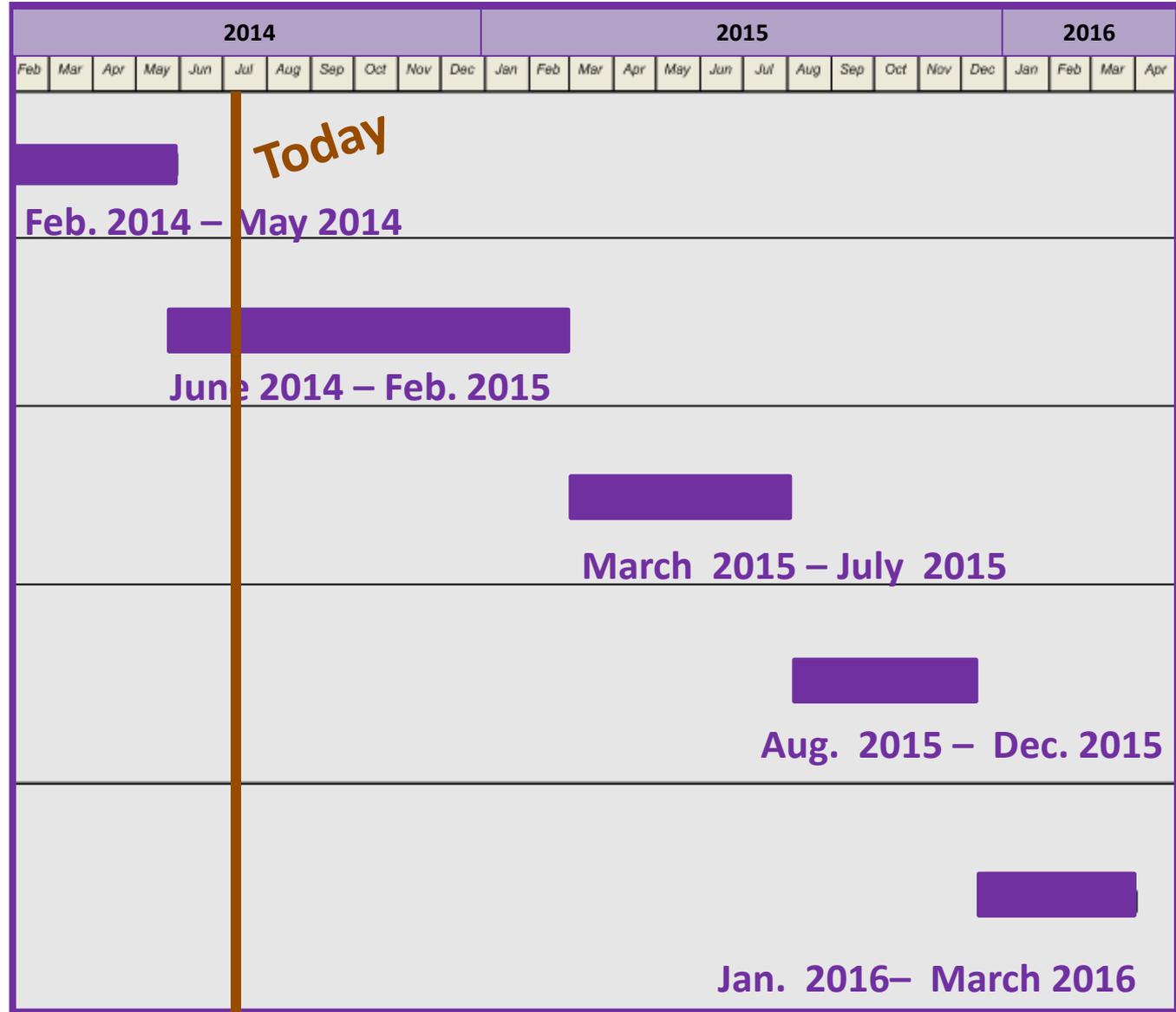
Public Comment Phase

- Public Hearing(s)
- Written Comments



Rule Making Process - Schedule

- Planning
- Drafting
- Public
- Adoption
- Implement



Washington's Reclaimed Water Rule Making Process



Contact information

Dennis McDonald

Dept. of Ecology

360-407-6321

reclaimedwater@ecy.wa.gov

Washington's Reclaimed Water Rule Making Process

Reclaimed Water website:

- www.ecy.wa.gov/programs/wq/reclaim/index.html

The screenshot shows the Washington State Department of Ecology website. The header includes the department name and navigation links for Home, WATER, AIR, WASTE, CLEANUP, TOXIC HAZARDS, GREEN, About Us, and Jobs. A secondary navigation bar lists Programs, Services, Publications & Forms, Databases, Laws & Rules, Public Involvement Calendar, and Public Records. The main content area is titled "Reclaimed Water" and features a sidebar with links for RECLAIMED WATER (Legislation, Permitting, Resources and Guidance, Useful Links, Contacts and LISTSERV). The main text includes a breadcrumb trail (Water Quality > Wastewater Treatment > Reclaimed Water), a "Reclaimed Water" section with three images (water samples, pipes, and a field), and a "SPOTLIGHT" section with news items: "NEW! Rule Making Public Workshop July 14", "Subscribe to the Reclaimed Water ListServ", "2009 Report to the Legislature: Water Rights Impairment Standards for Reclaimed Water", and "Water Smart, Not Water Short - 5 Ways to Secure Water for Washington's Future". A "Coming Soon!" section for "Frequently Asked Questions about Reclaimed Water" and "Standards for the Use of Reclaimed Water" is also present. The footer contains "Access Washington" branding, social media icons, and copyright information for the Washington State Department of Ecology.

Browser window showing a webpage from the Department of Ecology, State of Washington. The address bar displays: http://15.126.224.221:8004/programs/wq/reclaim/index.html

Page Title: Reclaimed Water

Navigation: Home | WATER | AIR | WASTE | CLEANUP | TOXIC HAZARDS | GREEN | About Us | Jobs

Sub-navigation: Programs | Services | Publications & Forms | Databases | Laws & Rules | Public Involvement Calendar | Public Records

Reclaimed Water

RECLAIMED WATER

- Legislation
- Permitting
- Resources and Guidance
- Useful Links
- Contacts and LISTSERV

Water Quality > Wastewater Treatment > Reclaimed Water

Reclaimed Water



Reclaimed water is an important component of wise water management. Reclaimed water is derived from domestic wastewater and small amounts of industrial process water or stormwater.

The process of reclaiming water, sometimes called water recycling or water reuse, involves a highly engineered, multi-step treatment process that speeds up nature's restoration of water quality. The process provides a high-level of disinfection and reliability to assure that only water meeting stringent requirements leaves the treatment facility.

NEW! [Frequently Asked Questions about The Reclaimed Water Rule](#)

Standards for the Use of Reclaimed Water

The Departments of Health and Ecology – with assistance of a Water Reuse Advisory Committee, interested stakeholders, and a consultant team of nationally recognized water reuse experts – developed standards for most applications of reclaimed water.

The standards emphasize public health protection and provide design, treatment and use area criteria for the following reclaimed water categories: general requirements (e.g., land application, impoundments, commercial and industrial uses), use in both natural and constructed wetlands, and groundwater recharge (direct and surface percolation). The Washington State standards are some of the most comprehensive and technically sound reclaimed water standards in the United States.

The file below contains the latest version of the Water Reclamation and Reuse Standards developed by the Departments of Health and Ecology.

[Water Reclamation and Reuse Standards](#)

SPOTLIGHT

NEW! [Rule Making](#)

[Rulemaking Public Workshop: July 14, 2014](#)

[Subscribe to the Reclaimed Water ListServ](#)

[2009 Report to the Legislature Water Rights Impairment Standards for Reclaimed Water](#)

[Water Smart. Not Water Short - 5 Ways to Secure Water for Washington's Future](#)

16

100%



FEEDBACK

Rule Making

- RULE MAKING**
- Overview of the Reclaimed Water Rule Making
 - Timeline
 - Documents
 - Public Involvement
 - Advisory Committee
 - Resources

[Water Quality](#) > [Rule Making](#) > Overview of the Reclaimed Water Rule Making

Chapter 173-219 WAC Reclaimed water

Overview of rule making

Water Quality Program is proposing a new rule, Chapter 173-219 Washington Administrative Code (WAC) Reclaimed Water, directed by the state Legislature under Chapter 90.46 Revised Code of Washington. The purpose is to establish an efficient, effective and consistent statewide implementation framework, including standards and permit requirements. The rule-making process initiated in 2006 was suspended by the Governor under two consecutive Executive Orders from 2010 through December 2012. Ecology reactivated the rule-making process in June 2014 with an estimated implementation of an adopted rule in late 2016.

Process of development

Ecology's process for developing a rule includes gathering input from affected stakeholders and the public, and following the steps for rule adoption.

- [Timeline for Rule Making](#) - Timeline of rule making steps required in State law.
- [Documents for Rule Making](#) - Links to all official rule adoptions documents.

RELATED ECOLOGY PROGRAM
Water Quality

ADDITIONAL RULE INFORMATION

CONTACTS
Dennis McDonald
Project Lead
360-407-6321
ReclaimedWater@ecy.wa.gov

Subscribe to the [E-mail ListServ](#) to receive updates

RELATED LINKS

Previous Rule Activity:
[Reclaimed Water Rule Making History 2006 - 2010](#)

References
[State Law](#)

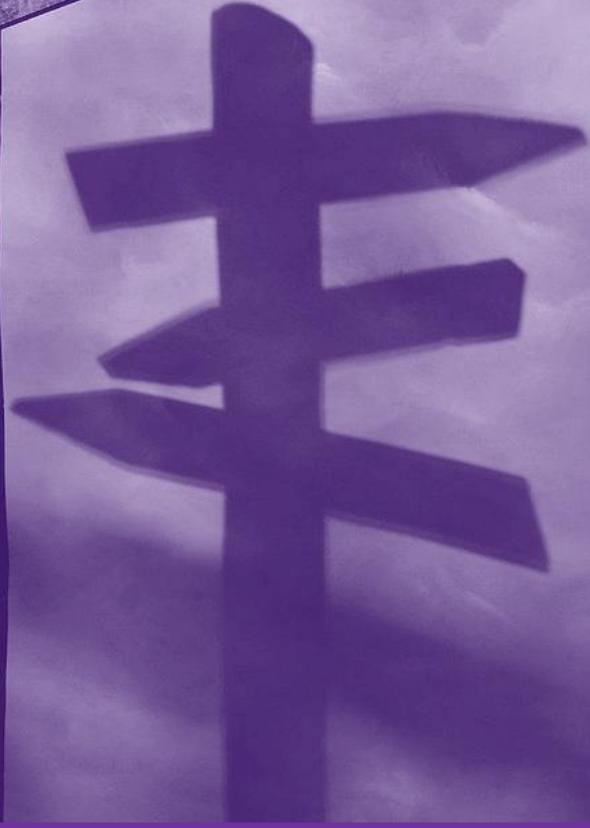
NEW! [The Reclaimed Water Rule FAQ](#)

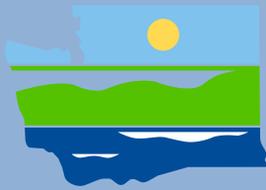
[Reclaimed Water](#)





Questions?





DEPARTMENT OF
ECOLOGY
State of Washington



Washington State Department of
Health

Washington State Reclaimed Water Rule Chapter 173-219 WAC

Dennis McDonald
Reclaimed Water Rule
Coordinator
(360) 407-6321
reclaimedwater@ecy.wa.gov

