

CITY *of*
TUALATIN
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*Public Works*

# Water Management and Conservation Plan



# WMCP - What is it?

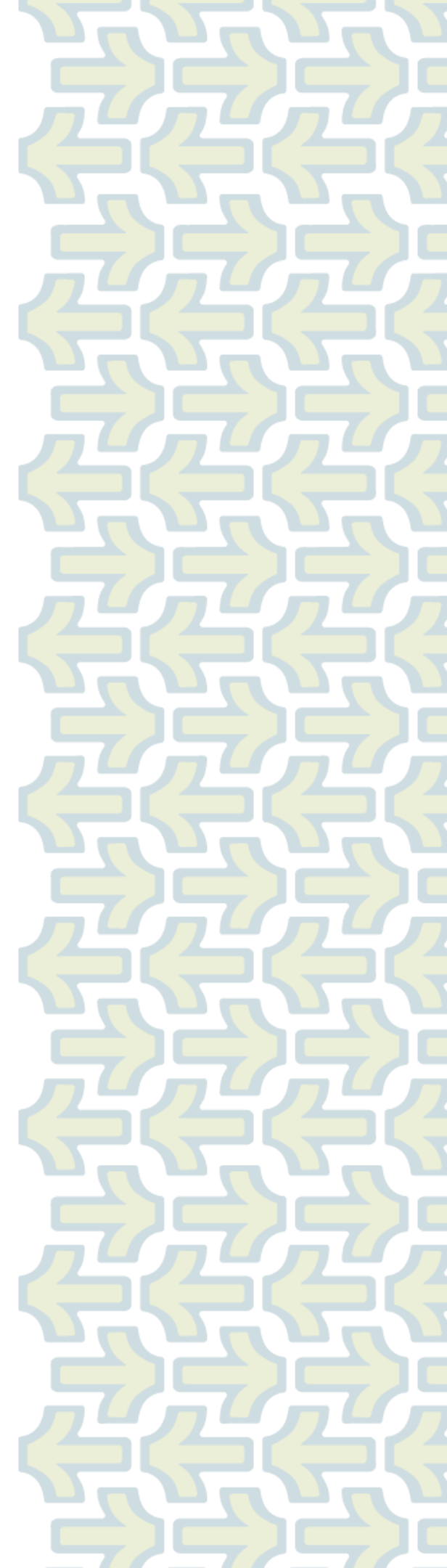


**A water suppliers' integrated resource management plan:**

Describes the water system and its needs




Identifies its sources of water

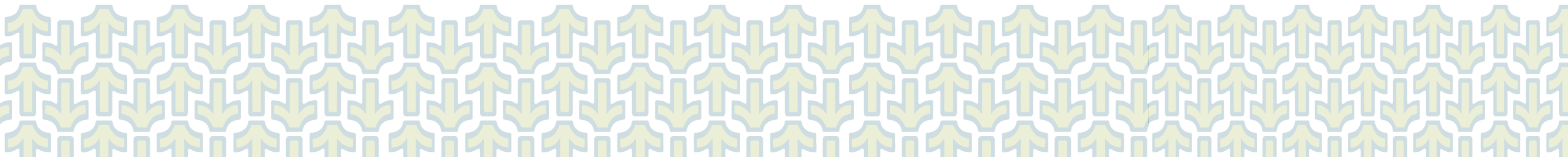
Explains present and future management and conservation needs



# Water Conservation - Why do it?



-  Required by the City's contract with the Portland Water Bureau (OAR 690-086)
-  Climate Action Plan (Action 4.1.7)
-  Identified Council Interest



# Water Management & Conservation Plans



**Chapter 1**

**Plan  
Elements**

**Chapter 2**

**Supplier  
Description**

**Chapter 3**

**Conservation  
Element**

**Chapter 4**

**Curtailment  
Element**

**Chapter 5**

**Supply  
Element**

# Water Management & Conservation Plans



**Chapter 1**

**Plan  
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# Water Management & Conservation Plans



## Chapter 3

### Conservation Element

1. **Establishes a strategic framework** for efficient and sustainable use of the City's water resources.
2. **Guides the City's efforts** in reducing waste, enhancing efficiency, and promoting long-term water sustainability.





# Water Conservation Element



## Part 1

Past and current water conservation measures.

## Part 2

Descriptions of conservation benchmarks for the next five years.

## Benchmark

A specific water conservation action that a supplier commits to doing within the next five years.



# Water Conservation Element



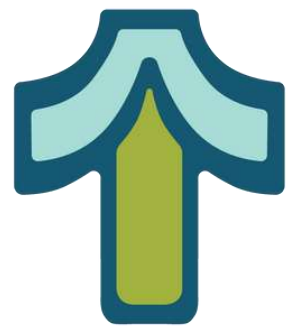
## Basic Measures Required of All Suppliers OAR 690-086-0150(4)

1. Annual Water Audit
2. System-Wide Metering
3. Meter testing and Maintenance
4. Rate Structure
5. Leak Detection Program
6. Public Education

## Enhanced Measures Required of Select Suppliers OAR 690-086-0150(5)&(6)

1. Technical and Financial Assistance Programs
2. Retrofit/Replacement of Inefficient Fixtures
3. Rate Structure/Billing Practices for Conservation
4. Reuse, Recycling, Non-Potable Opportunities





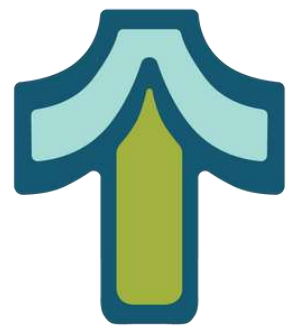
# Basic - Annual Water Audit

An analysis of the water system, including:

- A comparison of the water taken into the system versus the water used.

**Bench  
mark**

Continue to conduct annual water audits



# Basic - System-Wide Metering

**Tualatin's system is fully metered, including:**

- **All existing customer connections**
- **All new customer connections.**

**Bench  
mark**

Continue to have a fully metered system.

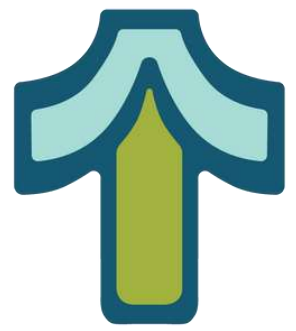


# Basic - Meter testing and Maintenance

- Monthly report from meter reading contractor.
- Twice-annual calibration of meters 3” and larger.
- Source meter is calibrated by the Portland Water Bureau.

**Bench  
mark**

Continue meter testing and maintenance.



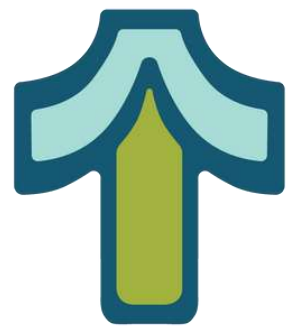
# Basic - Rate Structure

**The City is required to:**

- **Bill customers on the quantity of water used.**
- **Review rates and structures regularly.**

**Bench  
mark**

Continue to bill monthly and regularly review rates.



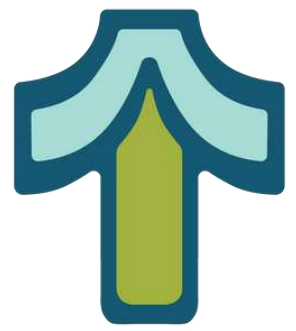
# Basic - Leak Detection Program

The City currently measures water loss:

- Tualatin's loss percentage is consistently below the 10% OAR threshold (5.5% in 2022).

**Bench  
mark**

Continue to monitor for and address water loss.



# Basic - Public Education

**The City promotes water conservation in a variety of ways:**

- **Educational materials and community engagement.**
- **Engaging with partners (ex: Regional Water Providers Consortium and the Backyard Habitat Certification Program).**

**Bench  
mark**

Continue to develop and implement outreach efforts.



# Water Conservation Element

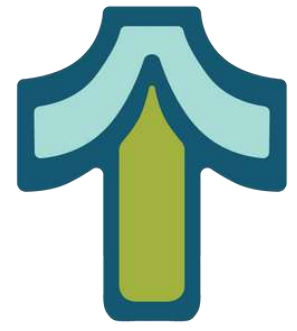


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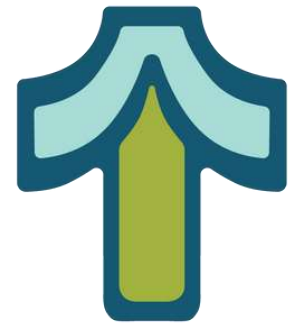
# Enhanced - Technical and Financial Assistance Programs

Programs designed to encourage and support customers in their conservation efforts.

## **Proposed Benchmark**

Set a community standard for water conservation by offering educational materials and assisting customers.



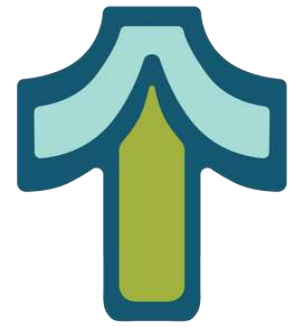


# Enhanced - Retrofit/Replacement of Inefficient Fixtures

Reducing water demand by providing customers with equipment or financial incentives to invest in water-efficient products.

## Proposed Benchmark

Implement a conservation kit program to help customers retrofit or replace inefficient residential fixtures.

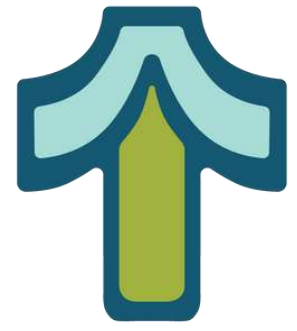


# Enhanced - Rate Structure/Billing Practices for Conservation

Consider rate structures and billing practices that support and encourage water conservation.

## Proposed Benchmarks

- Conduct a study about the potential for a water conservation focused rate structure (tiered rates)
- Install AMR/AMI retrofit capable meters.



# Enhanced - Reuse, Recycling, Non-Potable Opportunities

Consider how reuse, recycling, and use of non-potable water could reduce the need for raw water.

## **Proposed Benchmark**

Explore expanding the Durham Treatment Plant's Purple Pipeline.

# Staff Recommendations



**Question for Council: Does this feel like the right approach?**

Set a  
community  
standard in  
education

Offer free  
conservation  
kits to  
Tualatin  
customers

Explore  
conservation  
focused rate  
structure

Install  
AMR/AMI  
retrofit  
capable  
meters

Explore  
Purple  
Pipe  
Expansion

