# MONDAY, JULY 16, 2018 CITY COUNCIL WORK SESSION

# WATER MANAGEMENT & CONSERVATION PLAN, 6:00PM - 6:45PM

Mayor Burge called the Work Session to order at 6:00 p.m.

**Present:** Mayor Scott Burge, Councilor Patrick Kessi, Councilor Megan Greisen, Councilor Natalie Sanders, Councilor Joel Haugen, Councilor Josh Poling, City Manager Michael Sykes, Treatment Plant Supervisor Darryl Sykes, City Recorder Susan Reeves, Legal Counsel Peter Watts, and Consultant Dan Reisinger with Carollo Engineers.

Also present: City Engineer Chris Negelspach, City Planner Laurie Oliver, and Chamber Executive Director Simon Date.

City Manager Sykes explained we are in the midst of updating our Water Master Plan and as part of that we developed the Water Management and Conservation Plan which we would like to share with you tonight. He stated as you well know water is one of our big issues.

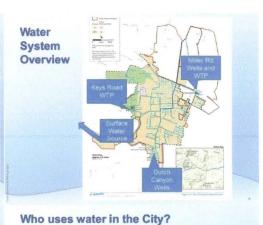
Consultant Dan Reisinger explained we are going to go over this plan, and really this is a regulatory required plan. He went over his power point presentation.





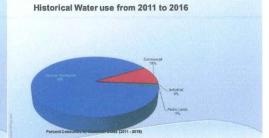
- Update required as a condition of the Dutch Canyon Well #2 water right
- Required by OAR 690-086 (administered by OWRD) every 10 years.



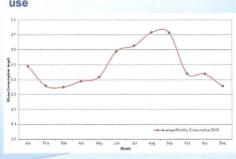


#### Agenda

- Review Water Management and Conservation Plan
- Present Future Demand Projections
- Discuss Water Supply Analysis
- · Review Conservation
- Recommended Water Gustaliment Chan



# Summer use is nearly double of winter use

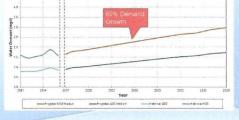




# Strong population and employment growth in next 20 years



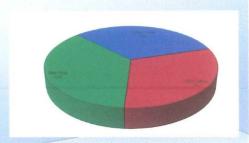




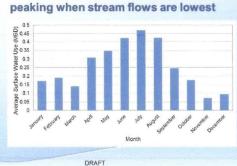


- Review Water Management and Conservation Plan
- · Present Future Demand Projections
- Discuss Water Supply Analysis
- · Review Conservation
- · Recommended Water Curtainment Changer

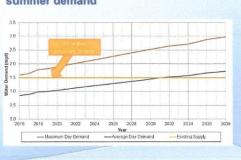
# Water is supplied evenly between three sources



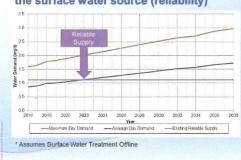
# Surface water is used for summer peaking when stream flows are lowes



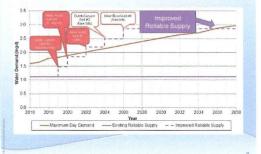
More supplies are needed to meet summer demand

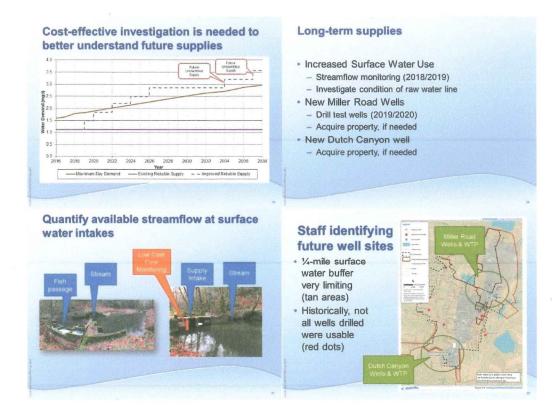


# Summer demands cannot be met without the surface water source (reliability)



Two additional wells maximize the use of existing City treatment plants





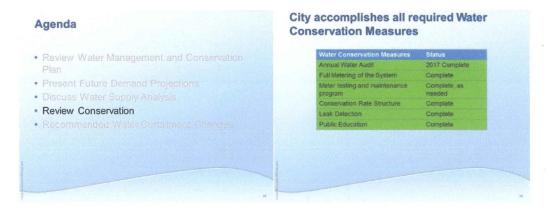
Councilor Kessi asked is there a way to use the surface supply for industrial uses, and the well supply for drinking/residential use, is there a way to divide that?

Darry Sykes replied the water is all combined.

Councilor Kessi asked if staff has looked at the Chapman Landing supply at all?

Consultant Dan Reisinger replied we did as part of the Water System Master Plan and it was definitely a potential.

Darryl Sykes replied the difficulty with that is we would have to do a feasibility study and then pilot work to determine if it would work, and none of that is cheap.



# **Enhanced Conservation Measures are** now needed due to population growth

	Status
Reduce Water Loss to 10%	Staff Focus Calculated water loss >25%
Technical and Financial Assistance Program	Complete
Retrofit/Replacement of Inefficient Fixtures	Faucet aerators and toilet leak detection tabs to be available
Rate Structure / Billing Practices for Conservation	Complete
Leak Detection	Complete
Reuse, Recycling, Non-potable	None planned City reuses water in plants to extent possible

### Water loss is a combination of real losses and measurement error

#### Real Losses

# Aging Distribution System Meter Accuracy Ongoing leak detection and repair

- Non-billable water tracking
- Working with fire department to track water use
- Water theft City requires hydrant meters for construction

#### Measurement Error

- Ongoing Meter Replacement Program
- Plant Meter Maintenance

# Four tier water curtailment is recommended to replace existing policy

Tier	Reduction Goal	
Voluntary	5%	
Tier 1 - Mild	10%	
Tier 2 - Moderate	15%	
Tier 3 - Critical	20%	

### Agenda

- Review Water Management and Conservation
- Present Future Demand Projections
- Discuss Water Supply Analysis
- Review Conservation
- Recommended Water Curtailment Changes

### Voluntary Tier is general; allows staff to prioritize customers for voluntary curtailment



# Tier 1-Mild has mandatory reductions that largely impact the City

Tier 1 Mild	Use reaches 85 percent of capacity of three consecutive days and/or state drought declaration affecting service area	10 percent reduction in demand	Continue of Voluntary measures Step system flushing recept for essential needs Reduce municipal rigidation and aestheticuses and post information explaining reduction Restrict indiscape watering to exeming boxes Restrict pavement washing to need related to health Prohibit to-valved whick wathing Prohibit building cleaning Prioritized Notification Mathods: Posterdandwick boards/Mathods Posterdandwick boards/Mathods Posterdandwick boards/Mathods

### Tier 2-Moderate restricts customer irrigation and prohibits non-essential outdoor water use



# Tier 3-Critical prohibits irrigation and vehicle washing

Tier 3 Critical	Use reaches 95 percent of capacity for one day	20 percent reduction in demand	Continue Tier 2 measures Flohibit landscape watering except for hand watering of now trees and shrulos Flohibit vehicle washing with City supplied water Prioritized Notification Methods: Media/Door hangenyPosters/Sandwich
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Councilor Kessi stated he is wondering if there is a way to reuse water for industrial use versus drinkable water. He asked is there a way to do that when we are planning industrial growth, so we can conserve our water?

Consultant Dan Reisinger replied there is, but he can't actually speak to that.

Council thanked Dan and Darryl.

Mayor Burge adjourned the Work Session at 6:49 p.m.

# INTERVIEW FOR ECONOMIC DEVELOPMENT COMMITTEE

**Present:** Mayor Scott Burge, Councilor Patrick Kessi, Councilor Megan Greisen, Councilor Natalie Sanders, Councilor Joel Haugen, Councilor Josh Poling, City Manager Michael Sykes, Police Chief Norm Miller, City Recorder Susan Reeves, and Legal Counsel Peter Watts.

Also present: Treatment Plant Supervisor Darryl Sykes, City Engineer Chris Negelspach, City Planner Laurie Oliver, RARE AmeriCorps Participant Garett Peterson, Chamber Executive Director Simon Date, and Courtney Vaughn with the Spotlight.

Mayor Burge explained Council will be interviewing for an Economic Development Committee member.

Susie Wilson introduced herself to Council, and then Council interviewed her.

Council thanked Susie.

Interview adjourned at 6:59 pm.

Mayor Scott Burge

Attest:

City Recorder Susan M. Reeves, MMC