

**CLACKAMAS RIVER WATER BOARD OF COMMISSIONERS
BOARD WORK SESSION
October 27, 2025**

COMMISSIONERS PRESENT:

Naomi Angier, Secretary
Rob Cummings
Tessah Danel, Treasurer
Sherry French, President
Rusty Garrison

STAFF PRESENT:

Todd Heidgerken, General Manager
Karin Holzgang, Executive Assistant to the Board

CRW Employees: IT Manager, Kham Keobounnam;
Chief Engineer, Jason Branstetter; Water
Resources Manager, Steve Houck

COMMISSIONERS ABSENT:

VISITORS: Chris Hawes, Bob Steringer

Call Work Session to Order

Commissioner French called the meeting to order at 6:00 pm. Roll call was taken

1. **North Clackamas County Water Commission (NCCWC) Planning Document** (see attached presentation)
 - The members of the NCCWC are Sunrise Water Authority, Oak Lodge Water Authority & Gladstone
 - In 2022 CRW and NCCW entered into a water supply agreement which calls for a planning document for forecasting demand (next 5 years) and capital improvements (next 10 years)
 - Both NCCWC and CRW value steady operations and efficient use of their respective treatment plants
 - Goals to be achieved through the planning document
 - Comply with the minimum purchase language in the IGA
 - Allow for flexibility
 - Create a baseline (minimum) amount
 - Create limits on maximum peaking
 - Some operational consistency
 - Allow for future need changes
 - Once staff draft and create the planning document the General Managers will approve the document (to be done before the end of 2025)
2. **CRW Water Treatment Plant Improvements Planning**
 - CRW plant originally constructed in 1964 to produce 10 MGD and then expanded in 1972 and 1992 to “design” the capacity for 30 MGD
 - Direct filtration treatment (little sedimentation takes place prior to the filters)
 - 2021 the WTP facility plan was completed (drivers to the plan -Water Quality; Resilience; Aging infrastructure; capacity)

- From the options and approaches identified in the plan Alternative 2b was chosen
 - In 2019 the first phase was estimated to be \$40m and in 2025 dollars the estimate is \$55m
 - Improvements that have occurred since the study was completed
 - Pump replacements
 - Instrumentation repairs
 - Polymer system
 - SCAD upgrades
 - Currently an RFQ/P is being advertised for an engineering consultant to design an initial 30% design to assist in budgeting for the project. If there is budget the additional milestone would be a 50% design.
- 3. Commissioner Communications-** suggested by Commissioner Danel was to provide opportunities to reach out to customers regarding the improvements of the plant, partnerships and funding to get the information out more widespread. Commissioner Cummings asked about the risk and resilience plans for the other water districts in the basin and how the entities could work together to identify each strength and weakness to support one another (i.e., tabletop exercises working together in the basin). Commissioner Cummings also reminded the group that the 100-year anniversary for the district is 2026
- 4. General Manager Update**
- Reminder that the State of the Counties event is scheduled, and the registration is available and space is limited
 - CRW received the Certificate of Excellence in financial report for FY end 6/30/24

Public Comment: none

Open meeting is adjourned at 7:38pm

CRW and NCCWC (North Clackamas County Water Commission)

Coordinated Supply Planning



Clackamas River Water

Background

- NCCWC/CRW Water Supply Agreement created in 2022
- Goal: Eventually make available up to 10 MGD to the NCCWC
- Collaborative approach between CRW and NCCWC through creation of a “Planning Document”

WATER SUPPLY AGREEMENT

This agreement is entered into this 1st day of July, 2022, between the Clackamas River Water District (hereinafter “CRW”), an ORS Chapter 264 Domestic Water Supply District, and the North Clackamas County Water Commission, (hereinafter “NCCWC”), a municipal organization formed under ORS 190 Intergovernmental Agreement, or collectively hereinafter referred to as the “Parties.”

WHEREAS, the NCCWC currently purchases wholesale drinking water from CRW under an existing agreement dated March 8, 2001; and

WHEREAS, the existing water supply agreement is set to terminate June 30, 2022; and

WHEREAS, the NCCWC desires to renew a long-term supply agreement with CRW wherein allowing for greater flexibility and adaptability in meeting present and future demands, as well as emergency supply; and

WHEREAS, the NCCWC intends to expand its future purchases of wholesale water from CRW based on availability and the strategic interests of both Parties.

NOW, THEREFORE, THE PARTIES AGREE AS FOLLOWS:

1. Contract Period
 - A. This Agreement shall remain in effect until December 1, 2042, commencing with the execution of this Agreement, unless so approved otherwise by mutual written consent of the Parties.
 - B. The NCCWC agrees to notify CRW in writing of its desire to extend the term of this Agreement, but not later than two (2) years prior to the termination of this Agreement.
2. Available Capacity
 - A. CRW intends to provide up to 10 million gallons per day (mgd) of available treated water capacity to the NCCWC. In no event shall CRW be required to deliver water beyond that which is technically feasible through existing infrastructure, or which otherwise would create hardship to CRW.
 - B. The Parties shall mutually determine desired points of delivery and related transmission (flow rate) capacities for both regular and emergency service. The Parties may amend these points of delivery and capacities through mutual agreement among the Parties’ General Managers or through the approved Planning Document, set forth under Section 3.B below.
 - C. In no event shall either Party be required to construct added pumping or transmission capacity to meet (or create) said desired points of delivery or flow rate capacities, unless so mutually approved in writing by both Parties. Any future construction of jointly owned assets shall be arranged under separate agreement among the Parties.

Purpose of the Planning Document

Work Together to Forecast:

- 5-year water demand forecast

Note: Demands are for planning and do not create an obligation for purchase or delivery of wholesale water by either party.

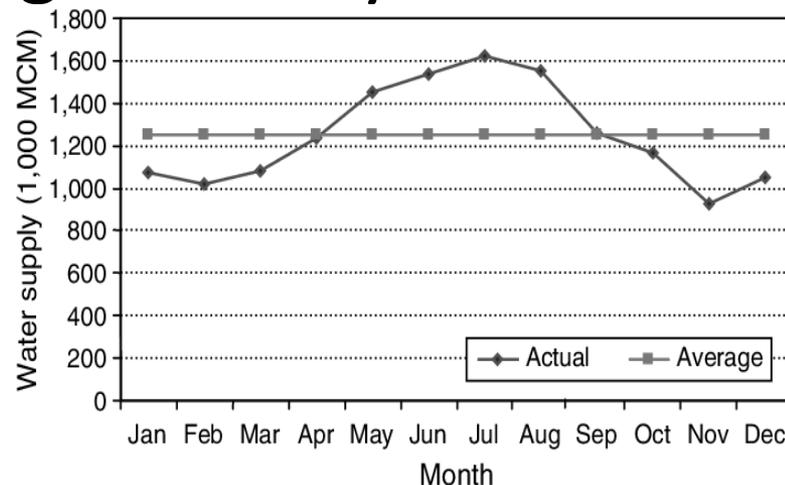
- 10-year capital improvements forecast

Key Components Include:

- Delivery Points
- Peak Flow Capacities at Delivery Points
- Seasonal Demands
- Capital Improvement Schedule

Operational Challenges

- General seasonal variation in water demand
- NCCWC – needs more in the Summer “Peak” period and less in the “Winter” low period
- CRW – values steady operations
- Balancing flexibility and efficiency



System Constraints

- Limited production and delivery
 - Hours of operation
 - WTP Improvements needed to achieve capacity
- Transmission restrictions
 - Current 4 MGD limitation to 152nd Reservoir



Managing Supply and Demand

Identify Operational Factors to Manage By:

- Daily Minimum
- Annual Average
- Peaking Factor
 - Peak to Annual Average
 - Peak to Daily Minimum



Managing Supply and Demand

This Approach Accomplishes the following:

- Complies with the minimum purchase language in the agreement
- Allows for some flexibility in how much water is taken during what periods of time
- Creates a “baseline” or minimum amount that is always taken.
- Creates limits on the Maximum Peaking Amount
- Provides some operational consistency
- Allows for numbers to be adjusted based on future needs.

Example Scenarios

- **Current Demand Scenario:**
 - NCCWC Annual Average Purchase = 2.5 MGD
 - Establish a Daily Minimum (Planning Document) of 2.0 MGD
 - Establish Peaking Factors (Planning Document):
 - Peak is equal or less than 2.0 times the Annual Average.
 - Creates a Peak limit of 5.0 MGD (2.5 MGD x 2.0 Peaking Factor = 5.0 MGD)
 - Peak is equal or less than 2.5 times the Daily Minimum.
 - Creates a minimum daily purchase amount of 2.0 MGD (5.0 Peak MGD divided by 2.5 Peaking Factor = 2.0 MGD)

Example Scenarios

- **Maximum Demand* Scenario:**
 - Annual Average Purchase = 5.0 MGD
 - Establish a Daily Minimum (Planning Document) of 4.0 MGD
 - Establish Peaking Factors (Planning Document):
 - Peak is equal or less than 2.0 times the Annual Average.
 - Creates a Peak limit of 10.0 MGD (5.0 MGD x 2.0 Peaking Factor = 10.0 MGD)
 - Peak is equal or less than 2.5 times the Daily Minimum.
 - Creates a minimum daily purchase amount of 4.0 MGD (10.0 Peak MGD divided by 2.5 Peaking Factor = 4.0 MGD)

* Assumes full 10 MGD is only needed during peak times

Next Steps

- Staff from both CRW and NCCWC/SWA are working on capturing this information in a “Planning Document”



- Once completed, approval of the planning document has been delegated to the General Managers (before the end of the year)

TIME FOR QUESTIONS



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Clackamas River Water

Water Treatment Plant Improvements Planning



Clackamas River Water

Background

Water Treatment Plant

- Originally constructed in 1964 (10 MGD) and expanded in 1972 and 1992
- “Design” capacity is 30 MGD
 - used to certificate water rights at 30 MGD
 - actual capacity is less
- Direct Filtration Treatment
 - little sedimentation takes place prior to the filters
- 2021 Water Treatment Plant Facilities Plan Completed



WTP Facilities Plan Drivers

- Water Quality
- Resilience (Hazards)
- Aging Infrastructure
- Capacity



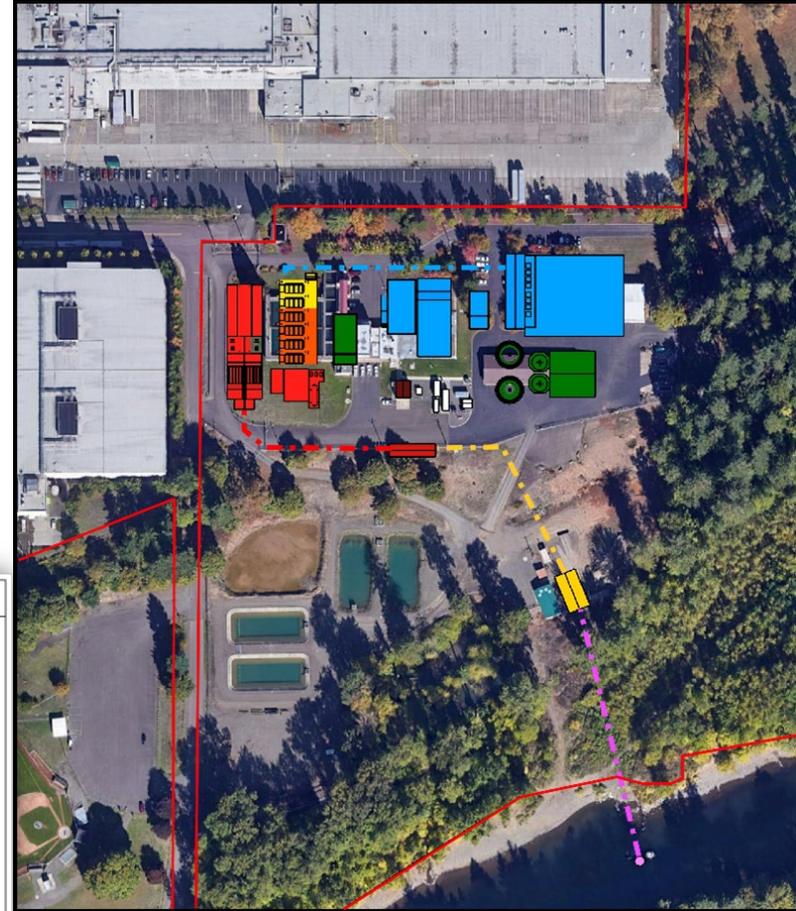
Selected Alternative 2b

Incremental replacement

Enhanced treatment

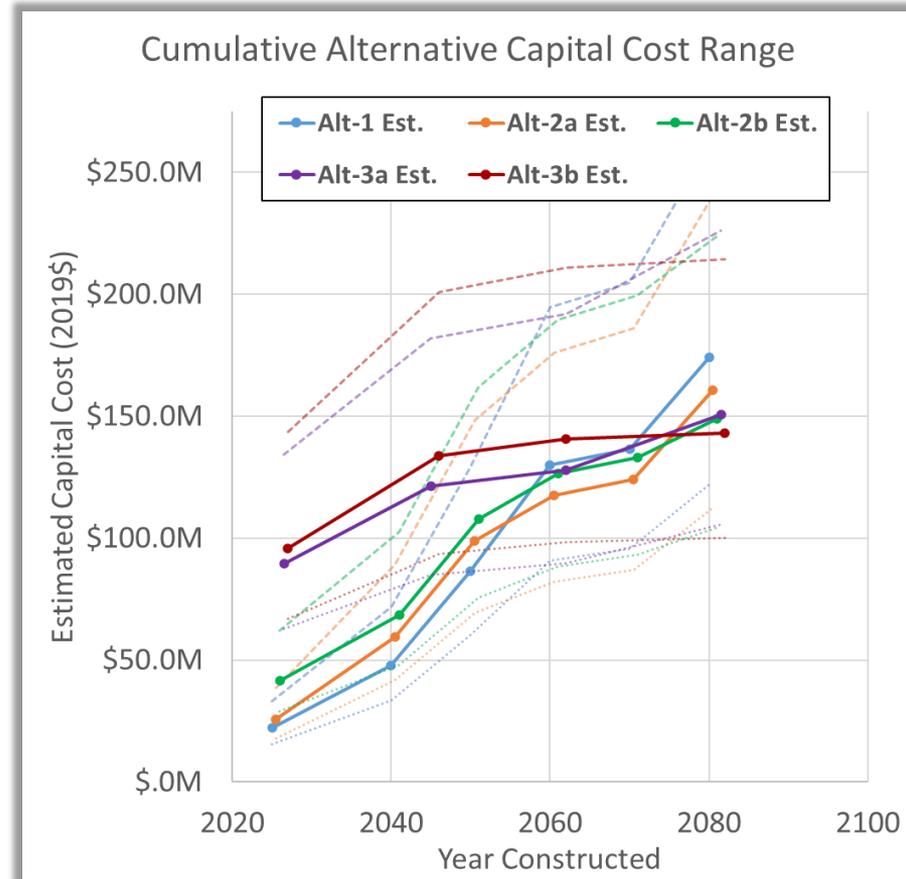
Uses existing infrastructure

KEY	
Red	PHASE 1
Yellow	PHASE 2
Blue	PHASE 3
Orange	PHASE 4
Pink	PHASE 5
Green	PHASE X



Cost Evolution

- Facilities Plan Est for Phase 1 was \$40M (in 2019 dollars)
- Most recent rate study, we planned for \$55M (in 2025 dollars)
- Additional work on long-term funding plans (rates, loans, etc.)



Ongoing Projects

Since the 2021 WTP Facilities Plan Refinement of needs has included:

- Repairs and Replacements
 - Pump replacements
 - Instrumentation
 - Polymer System
- System optimization or improvements
 - SCADA (Supervisory control & data acquisition)
 - Instrumentation



Planning for Long-Term Expansion

- Request for Qualifications/Proposals (RFQ/P) to identify an engineering consultant
- WTP Improvement engineering consultant selection anticipated early 2026
- Initial milestone is 30% design in time for budgeting purposes.
- Additional milestone is 50% design (dependent on funding resources)

Funding and Partnerships

Open Discussion

- Funding Strategy
 - Rates
 - Capacity
 - Phasing
- Partnership Opportunity
 - Incorporate in wholesale rates
 - Ownership Opportunity



Status and Next Steps

Current Status:

- The RFQ/P process is underway (Due November 13)

Next Steps:

- Presentation to the Sunrise Water Authority (SWA) Board (November 20)
- Board award of consultant contract for design (January)
- Continue discussion with the Board on partnership approach
- Water Rates Planning – Early Spring 2026

TIME FOR QUESTIONS



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