

CASTLE ROCK WATER

**RESOLUTION 2025-033:
PLUM CREEK WATER
PURIFICATION FACILITY (PCWPF)
EXPANSION CONSTRUCTION
CONTRACT**

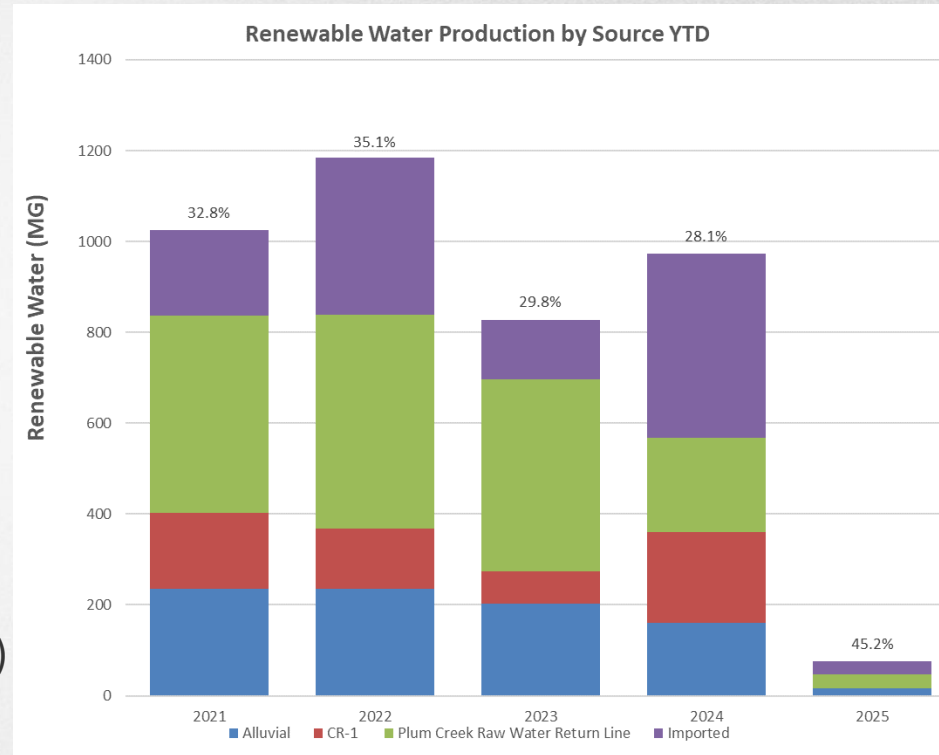
MARCH 4, 2025



PCWPF EXPANSION WP 3

BACKGROUND

- Plant opened in 2013
- Original construction \$15M
- First renewable/surface water treatment plant
- Advanced treatment components completed 2021; \$31.5 M
- Created ability to reuse all water
- 6 billion gallons (BG) renewable water & 4.7 BG reusable water treated since 2013
- One of the most advanced plants in Nation
- Current capacity 6 million gallons per day (MGD)
- Expansion will add 6 MGD treatment capacity



PCWPF EXPANSION WP 3

BACKGROUND

- Awards
 - Best Regional Water/Environmental Project 2021 (Engineering News Record)
 - Water Treatment Plant of the Year 2021 (Rocky Mountain Section of American Waterworks Association)
 - Engineering Excellence Award 2022 (American Council of Engineering Companies)
- Tours
- Treats forever chemicals



Awards

PCWPF EXPANSION WP 3

KEY FEATURES

- Guaranteed Maximum Price Construction Management (GMPCM) project delivery
 - Preconstruction services awarded to Garney (December 2023)
- Garney bids Work Packages (WP) and establishes Final GMP
 - WP1 = long lead equipment packages/ time critical underground work (May 2024)
 - WP2 = Ozone system & membrane raw water feed and high service pumps (July 2024)
 - WP3 = Remainder of project



Site Plan



Excavation for new pretreatment

PCWPF EXPANSION WP 3

WP3 KEY FEATURES

- New masonry buildings for pretreatment basins and GAC treatment
- Electrical and SCADA work for overall project
- Two new solids handling lagoons
- All remaining work items to complete project such as interior process piping, HVAC systems, and site restoration.



Advanced Treatment Building



Ozone Loop Reactor



GAC Vessel Install

PCWPF EXPANSION WP 3

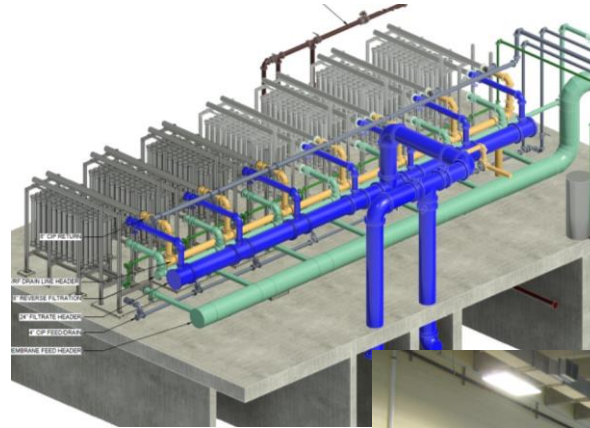
PROJECT SUMMARY

Budget

- WP3 Final GMP = \$41,821,534
(Includes 3% contingency)
- Met IGMP of \$64,443,732
(WP1 + WP2 + WP3)
- Total expected project cost = \$74,088,258
(Engineering, Construction, Permitting)

Schedule

- Order equipment upon award
- Begin pretreatment foundation work (May 2025)
- Overall project completion, Spring 2028
- **Plant to continue operation during construction**



3 New Membrane Racks



Membrane system at PCWPF

PCWPF EXPANSION WP 3

RECOMMENDATIONS

- Water Commission
- Staff
- Questions?



PCWPF

THANK YOU

PCWPF EXPANSION WP 3

PROPOSED MOTION:

“I move to approve the Resolution 2025-033 as introduced by title.”

ALTERNATIVE MOTIONS:

“I move to approve the Resolution as introduced by title, with the following conditions: (list conditions).”

“I move to continue this item to the Town Council meeting on ___ date to allow additional time to (list information needed).”