

CASTLE ROCK WATER

**RESOLUTION 2024-046:  
PLUM CREEK WATER  
PURIFICATION FACILITY (PCWPF)  
EXPANSION CONSTRUCTION  
CONTRACT**

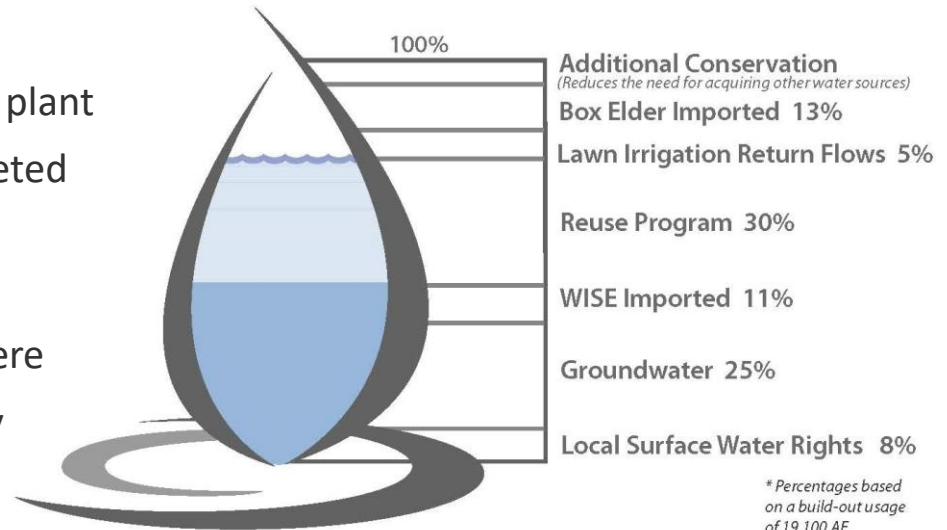
MAY 7, 2024



# 1<sup>ST</sup> AMENDMENT, WORK PACKAGE 1

## BACKGROUND

- Plant opened in 2013
- Original construction \$15,200,000
- First renewable/surface water treatment plant
- Advanced treatment components completed 2021; \$31,450,000
- Created ability to reuse all water
- One of the most advanced plants anywhere
- Current capacity 6 million gallons per day
- Renewable water to date



# 1<sup>ST</sup> AMENDMENT, WORK PACKAGE 1

## BACKGROUND

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



Awards

# PCWPF EXPANSION - WORK PACKAGE 1

## BACKGROUND

- Guaranteed Maximum Price Construction Management (GMPCM) project delivery
  - Same partnering approach used for previous contracts
  - Preconstruction services awarded to Garney in December 2023
  - Next Step – Work Package (WP) 1 Construction Contract
- Expanding overall facility capacity from 6 million gallons per day (MGD) to 12 MGD



PCWPF



Advanced Treatment Building



Expansion to add 10 GAC Filters

# 1<sup>ST</sup> AMENDMENT, WORK PACKAGE 1

## KEY FEATURES

- Contractor bids Work Packages (WP) – Establish Final guaranteed maximum price (GMP)'s
  - WP #1 = long lead equipment packages/time critical underground work
  - WP #2 = Ozone system & High Service Pumps (Town Council, June 2024)
  - WP #3 = Remainder of project (Town Council, January 2025)
- WP #1 Equipment = Rapid Mix, Flocculation & Sedimentation systems, Biologically Active Carbon Filters, Membrane Filters, Granular Activated Carbon Filters, Emergency Electrical Generator



General Site Plan

# 1<sup>ST</sup> AMENDMENT, WORK PACKAGE 1

## PROJECT SUMMARY

### Budget

- WP #1 Final GMP = \$18,571,594  
(Equipment, Yard Piping, & Excavation)
- Total expected project cost = \$74,172,057  
(Engineering, Construction, Permitting)

### Schedule

- Order Equipment Packages upon award
- Begin yard pipe construction winter 2024
- Overall project completion, Spring 2028



Construction of Existing Pretreatment Basins in 2012  
New Pretreatment train to add 6 MGD capacity

# 1<sup>ST</sup> AMENDMENT, WORK PACKAGE 1

## PROJECT SUMMARY

### Related Projects

- CRR1&2 - \$27,800,000 in 2026
- Liggett RD Waterline - \$3,500,000 in 2027
- Diversions - \$9,000,000 in 2025 through 2027
- PC Central Pipeline - \$11,700,000 in 2025 through 2026
- Chatfield Pump Back - \$89,400,000 in 2030 through 2032
- East Plum Creek Open Space Wells - \$9,500,000 in 2024
- Recent Water Rights Purchases – \$4,930,000



Construction of CRR2

# 1<sup>ST</sup> AMENDMENT, WORK PACKAGE 1

## RECOMMENDATIONS

- Castle Rock Water Commission
- Staff
- Questions?



# THANK YOU



# 1<sup>ST</sup> AMENDMENT, WORK PACKAGE 1

## PROPOSED MOTION:

*“I move to approve the Resolution 2024-046 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).”*