

# Capital Projects Briefing

Regional Water Quality Committee

October 1, 2025



**King County** | Wastewater Treatment

An aerial photograph of a port and city at sunset. The sky is a mix of blue, orange, and pink. In the background, there are mountains. The middle ground shows a large body of water with several ships and cranes. The foreground shows a city with various buildings, including a large white stadium-like structure.

# Capital Budget Highlights

Continued significant ramp up of capital program to meet needs in the 2026 Sewer Rate. Major cost drivers for Wastewater Treatment Division's (WTD) proposed budget include:

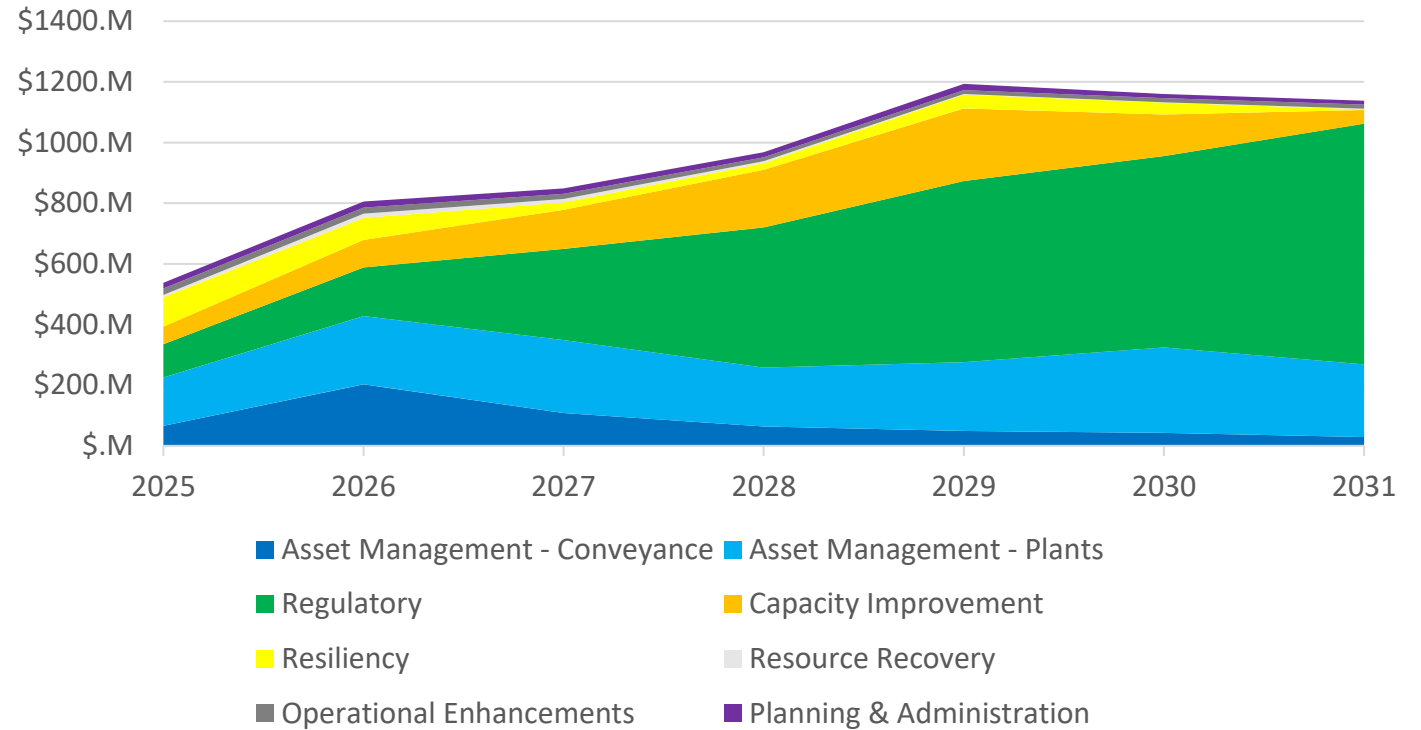
- Meeting regulatory requirements
- Reaching critical asset management (renewal and replacement) goals
- Addressing growth in the region

*The proposed 6-year Capital Improvement Program (CIP) aligns with the adopted 2026 sewer rate.*

# Key Appropriations

- **Mouth of the Duwamish Wet Weather Facilities**
- **East Ship Canal Wet Weather Facilities**
- **Combined Sewer Overflow (CSO) Supplemental Compliance and Corrective Action**
- **South Park Conveyance Rerouting to Rainier Vista Interceptor**

WTD Proposed 2026-2031 CIP



# Key Project Changes compared to 2025 Adopted Budget

- **Elliott West Wet Weather Treatment Station:** Estimate at completion increased ~\$75M as project moved from 15% to 30% design, project scope refined, and contractor overhead and delivery costs were updated. WTD anticipates further increases during 2027 proposed sewer rate process.
- **Division Wide Offsite Level Controls and Communication Upgrade:** Programmatic cost estimate increased ~\$320M to \$500M upon completion of programmatic alternatives analysis driven by increased scope complexity. Project will be phased to reduce near-term impacts on sewer rate.
- **South Plant Electrical Improvements:** Programmatic charter level cost estimate increased ~\$170M to \$240M from initial conceptual cost estimate based on additional identified scope and updated material pricing.
- **Sammamish Plateau Diversion:** Cost estimate updated for alternatives analysis increased ~\$160M to \$270M from initial cost estimate based on increased scope definition of pipe alignment.

# Key Cash Flow Changes since Adoption of 2026 Sewer Rate

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- **Mouth of Duwamish Wet Weather Facilities** – Shifted \$550M of costs (net) into 2032-2034
- **East Ship Canal (University/Montlake) Wet Weather Facilities** – Increased ~ \$200M
- **South Treatment Plant Secondary Aeration Modified Ludzak Ettinger Retrofit** – Shifted \$85M beyond 6-year CIP
- **Conceptual regulatory projects** – Deferred ~ \$165M beyond the 6-year CIP for these projects
- **Eastside Interceptor Section 8** – \$104M reduction from deferral based on asset condition
- **West Point Treatment Plant Critical Gate Refurbishment** – Deferred \$87M by extending program timeframe to balance funding in the short-term.
- **Division Wide Level Controls** – Deferred \$60M by extending program timeframe to balance funding in the short-term
- **Lake Hills and NW Lake Sammamish** – Increased \$90M due to updated cost estimates



# Capital Projects Overview

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# Mouth of Duwamish Wet Weather Facilities



## Overview

- **Objective:** Control overflows from five combined sewer overflow (CSO) outfalls at the mouth of the Duwamish River.
- **Project Scope:** Construct wet weather facilities to meet regulations by controlling combined sewer overflows from areas in West Seattle, SODO, and Beacon Hill
- Project required to be complete by 2034 under Consent Decree with U.S. Environmental Protection Agency (EPA) and Washington state Department of Ecology.
- Draft Engineering Report submitted to Ecology on September 2, 2025, and on track to meet the December 31, 2026, submission deadline.
- **Benefit:** Project will prevent ~430 million gallons of polluted water from entering Elliott Bay and the Duwamish River every year on average.





# East Ship Canal (University / Montlake) Wet Weather Facilities

## Overview

- University Regulator Station (RS), Montlake RS and Belvoir Pump Station (PS) outfalls do not meet the state Combined Sewer Overflow (CSO) control standard.
- **Objective:** Control the University RS, Montlake RS and Belvoir PS CSO outfalls to the CSO control performance standard.
- **Project Scope:** Conceptual project scope anticipates construction of a large storage facility around the University / Montlake area and an upgrade to the Densmore Pump Station.
- Project required to be complete by 2037 under Consent Decree with EPA and Ecology.
- **Benefit:** Reduction of combined stormwater and sewage entering the Ship Canal.





# Division-Wide Offsite Level Control and Communication Upgrade



## Overview

- **Objective:** Bring all offsite facility wet well level controls and communications equipment up to modern design standards.
- Wet well level controls at offsite facilities help prevent overflows and keep systems running efficiently.
- No direct replacements are available for the existing equipment and WTD faces increasing challenges to find parts for the equipment.
- **Project Scope:** Programmatic upgrade of obsolete level controls and communication systems at approximately 70 facilities.
- **Benefits:** Improved system reliability, maintenance, and operability.





# West Point Treatment Plant Electrical Improvements



## Overview

- **Objective:** Modernize and enhance electrical infrastructure.
- Electrical assets installed in West Point's original construction (1960s) and secondary treatment expansion (1990s) are beyond or near end of expected life.
- **Project Scope:** Replace approximately 330 aged electrical assets.
- **Benefits:**
  - Risk reduction by replacing aged assets.
  - Enhances system resiliency by reducing single points of failure and relocating critical assets out of flood-prone areas.







# Elliott West Wet Weather Station (EWWTS)

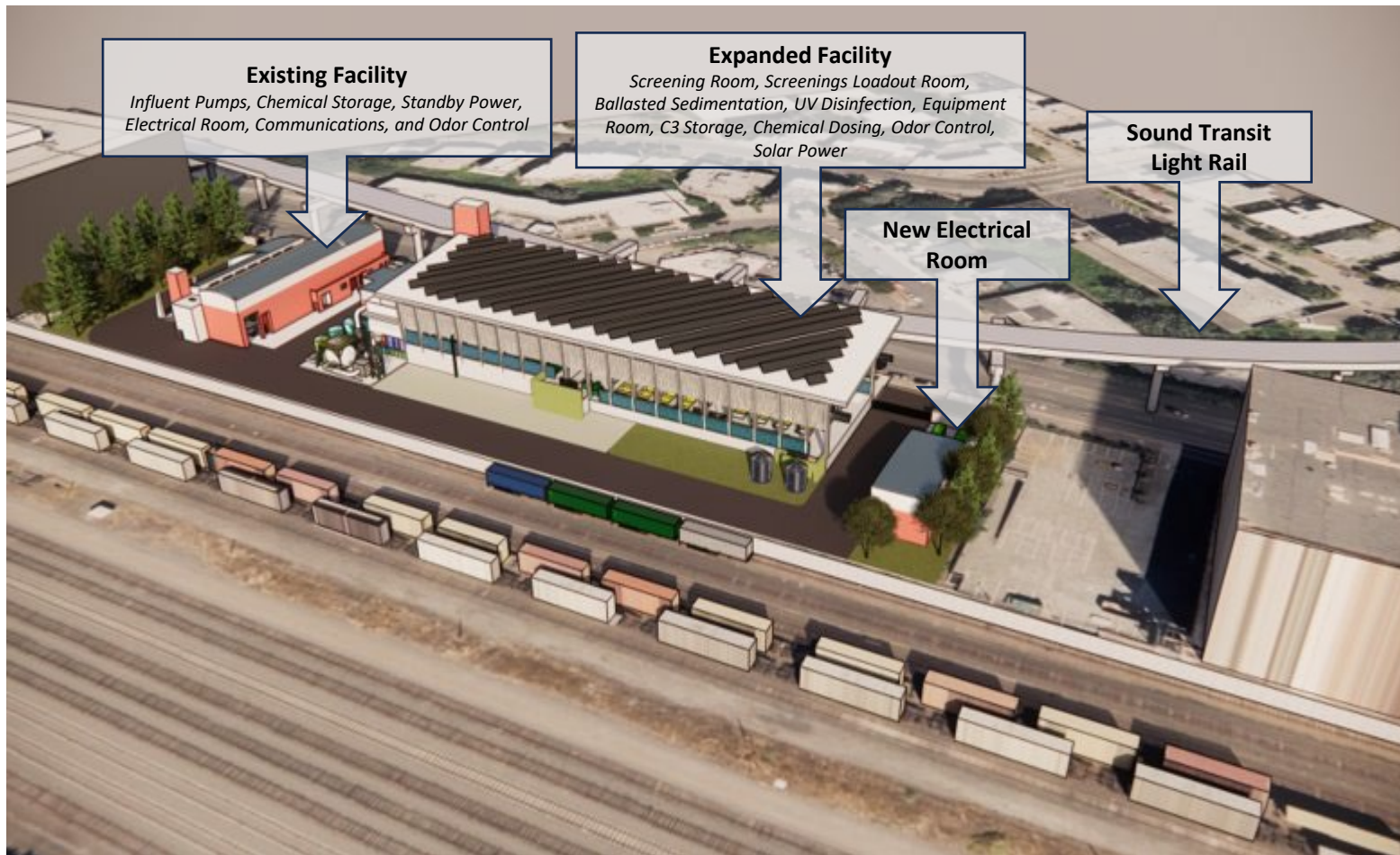
## Overview

- **Objective:** Bring EWWTS into full compliance with discharge permit and water quality standards.
- Effluent quality not always compliant with discharge permit since facility completed in 2005.
- **Project Scope:** Upgrade treatment at EWWTS to meet permit standards.
- 2024 discharge permit from Ecology includes compliance schedule with interim milestones, targeting full completion by December 2031.
- **Benefits:**
  - Ability to meet stricter environmental standards and adapt to changing climate.
  - Compliance with discharge permit.





# EWWTS Project Overview





# EWWTS Project Team is:

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- WTD communicated to Ecology concern with meeting completion requirement of December 2031.
- Developing documentation to support request to Ecology for extending project schedule.
- Anticipating presentation to Ecology in October 2025 and resubmittal of Engineering Report to Ecology in November 2025






# Market Trends in Capital Delivery


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# Market Conditions at a Glance

 Continuing to experience **high cost** but **less volatility** within the industry.

 **Growth** in the in Seattle Metro area construction sector remains **at an all time high**.

 Local bidding environment reflects construction industry's overall trend **limited labor capacity**.

 Uncertainty due to tariffs and the fear of record inflation (again) may lead to speculation and **possible volatility** (again).

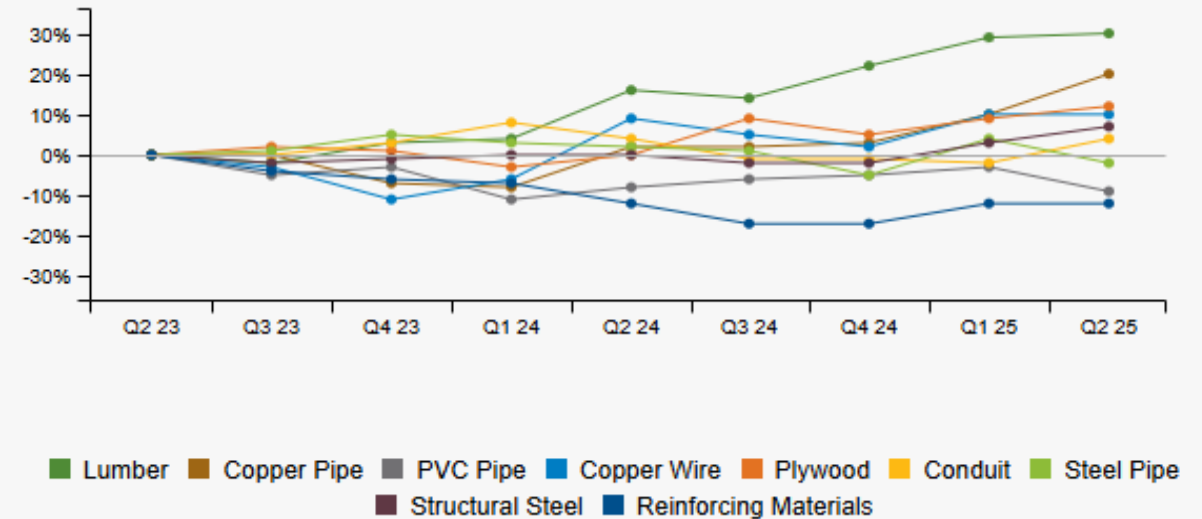
 These market conditions result in **increased construction costs and O&M costs**.

# Potential Tariff Impacts on WTD Projects

- 50% tariff on imported steel and aluminum (effective June 4, 2025), plus 25% tariff on most imports from Canada and Mexico, including lumber, cement, and most construction materials
- 30% total tariff on Chinese imports, affecting equipment, electrical components, and fixtures
- 10% baseline tariff on all countries
- WTD issued interim guidance on potential tariff impacts in early 2025.
- Whenever feasible, project teams consider options to reduce the reliance on high-tariff regions by allowing alternative sourcing options.

## MATERIAL PRICING CHANGES

(Cumulative Q2 2023 to Q2 2025)



# Q & A



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