

**Summary of Engineering and Planning (E&P) Subcommittee September 3, 2020
Meeting for September 2020 MWPAAC General Meeting**

Asset Management - Brightwater

At MWPAAC's request, WTD is providing a series of presentations about future asset management needs that are contributing to WTD's need for future rate increases. This presentation focused on management of the 13,000 assets at Brightwater over the 9 years since the plant went on-line. Even though the plant is new, maintenance and replacements of some assets are needed due to fibrous materials clogging pumps and machinery, corrosion due to hydrogen sulfide from sewer gases and corrosive process chemicals, and obsolescence due to rapidly-changing technology. Three different plant assessments over the past 10 years have projected improvements/replacements at differing times. A new Treatment Planning program starting in 2021 seeks to plan comprehensively for near-term and long-term projects for the plant and the entire system that address future regulatory requirements, growth, climate change, sustainability, and improved water quality outcomes.

Sewer Heat Recovery

WTD's Sewer Heat Recovery program seeks to harvest the heat found in sewage to heat and cool commercial buildings (similar to the concept of a heat pump in your home). The federal government estimates that up to 350 billion kW hours per year are available in sewers nationwide. Buildings that use a water-piped heating and cooling system and are located close to WTD interceptors would be good candidates for this technology. Participants would bear all of the costs and risk, and WTD is proposing to offer 3 candidates opportunity to pilot this technology, and WTD would evaluate the energy transfer fee to determine future reasonable compensation to ratepayers. The King County Council will consider the program in late September, and WTD's resource recovery team hopes to offer opportunity for pilot projects to sign up in late 2020.

Questions?

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