



Water Treatment Plant Membrane Filter Replacement November 17, 2020



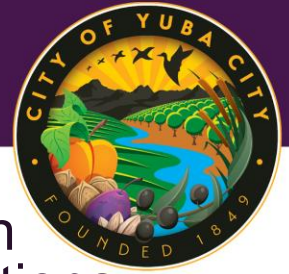
Presentation By:
Diana Langlely, Interim City Manager/Public Works Director

Water System Overview





Membrane Filters



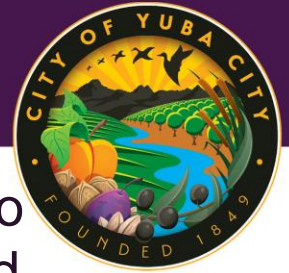
- The City's modules are Memcor S10N membrane filtration modules manufactured exclusively by DuPont Water Solutions.
- In October 2019, the State Water Resources Control Board Division of Drinking Water amended the City's permit to specifically include the Memcor S10N membrane filtration modules.
- These membrane filters are an integral repair part compatible with existing equipment and manufactured exclusively by DuPont Water Solutions.
- There are no other suppliers of these integral repair parts.

Analysis



- Staff has evaluated the condition and remaining functional service life of the membrane modules.
- Currently, Cell #1 has approximately 270 modules in good condition.
- Staff recommends replacing all 800 modules in Cell #1 and transferring the 270 good modules from Cell #1 into Cell #2.
- This is expected to allow Cell #2 to operate satisfactorily for another year or two before those modules will need to be replaced.
- City staff will install the new modules and transfer modules from Cell #1 to Cell #2.

Fiscal Impact



- DuPont Water Solutions provided a quote of \$686,158.50 to supply 800 Memcor S10N membrane filtration modules and related appurtenances.
- Capital Improvement Program (CIP) Account No. 971227 (Recurring WTP & Water Storage Improvements) has a current balance of approximately \$288,000.
- Staff recommends retaining this balance for unforeseen improvements required moving forward and transferring \$686,158.50 from Unallocated Water Reserve Funds to CIP Account No. 971227.
 - Approximately \$4,880,000 in Unallocated Water Reserve Funds available

Recommendation



- Adopt a Resolution authorizing the purchase of 800 Memcor S10N membrane filtration modules and related appurtenances from DuPont Water Solutions in the amount of \$686,158.50, with the finding that it is in the best interest of the City, and adoption of a Class 1 (Existing Facilities) Categorical Exemption per CEQA.
- Authorize a supplemental appropriation and direct the Finance Director to make a budget transfer in the amount of \$686,158.50 from Unallocated Water Reserve Funds to CIP Account No. 1227 (Recurring WTP & Water Storage Improvements).