



Discuss and consider action to authorize the City Manager to approve the purchase of replacement water treatment plant membranes from ZENON Environmental Corporation (also known as SUEZ) in the amount of \$537,040.00.



# Scope of Services

- ❑ Replacement of membrane modules for Train 3 that were last replaced in 2014.
- ❑ Scope would also include replacing plastic components that are original to the train from original installation in 2005.



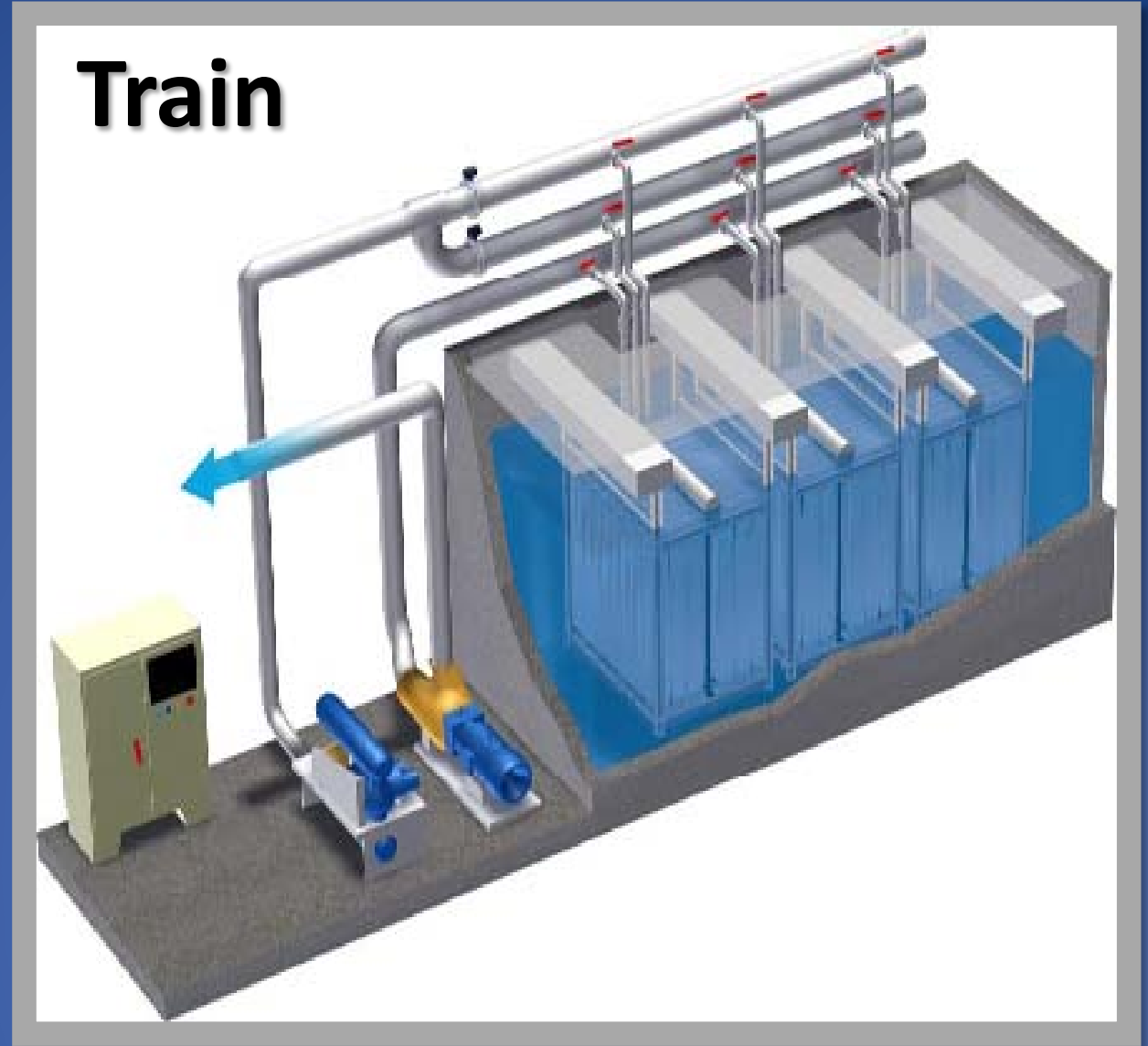


# Autopsy Report – Train 3

- ❑ Suez was contacted to perform an autopsy report of Train 3 in January 2020 to evaluate the damage that the membranes had sustained.
- ❑ The current damage is due to zebra mussel shell pieces that had “sliced” the membrane modules over the course of summer 2019.
- ❑ The damage is severe enough to warrant a full replacement as repair couldn't guarantee that the membranes would be usable to be within TCEQ guidelines.









## Justification

- Replacement of Train 3 allows the WTP to be able to have flexible operation during peak summer demand in the event another membrane train is down for maintenance.
- The new membrane modules will be installed but not used for treatment until the strainers are moved to ensure that they are not damaged in the interim.
- Strainers should be installed before peak summer demand. (Mid-June)
- If Train 3 membranes modules are not replaced, we run the risk to be unable to meet peak summer demand in the event of another membrane train goes down.



# Sole Source Purchase



- ❑ Staff has complied with all state procurement laws.
- ❑ The price for the replacement modules through ZENON Environmental Corporation (also known as SUEZ) is guaranteed for 20 years subject to adjustment for inflation. This price is guaranteed until 2023.



City staff requests approval of the purchase of replacement water treatment plant membranes from ZENON Environmental Corporation (also known as SUEZ) in the amount of \$537,040.00.