

South Bay WRP Electrodialysis Reversal (EDR) Units

Current Status and Planning Efforts

Metro TAC

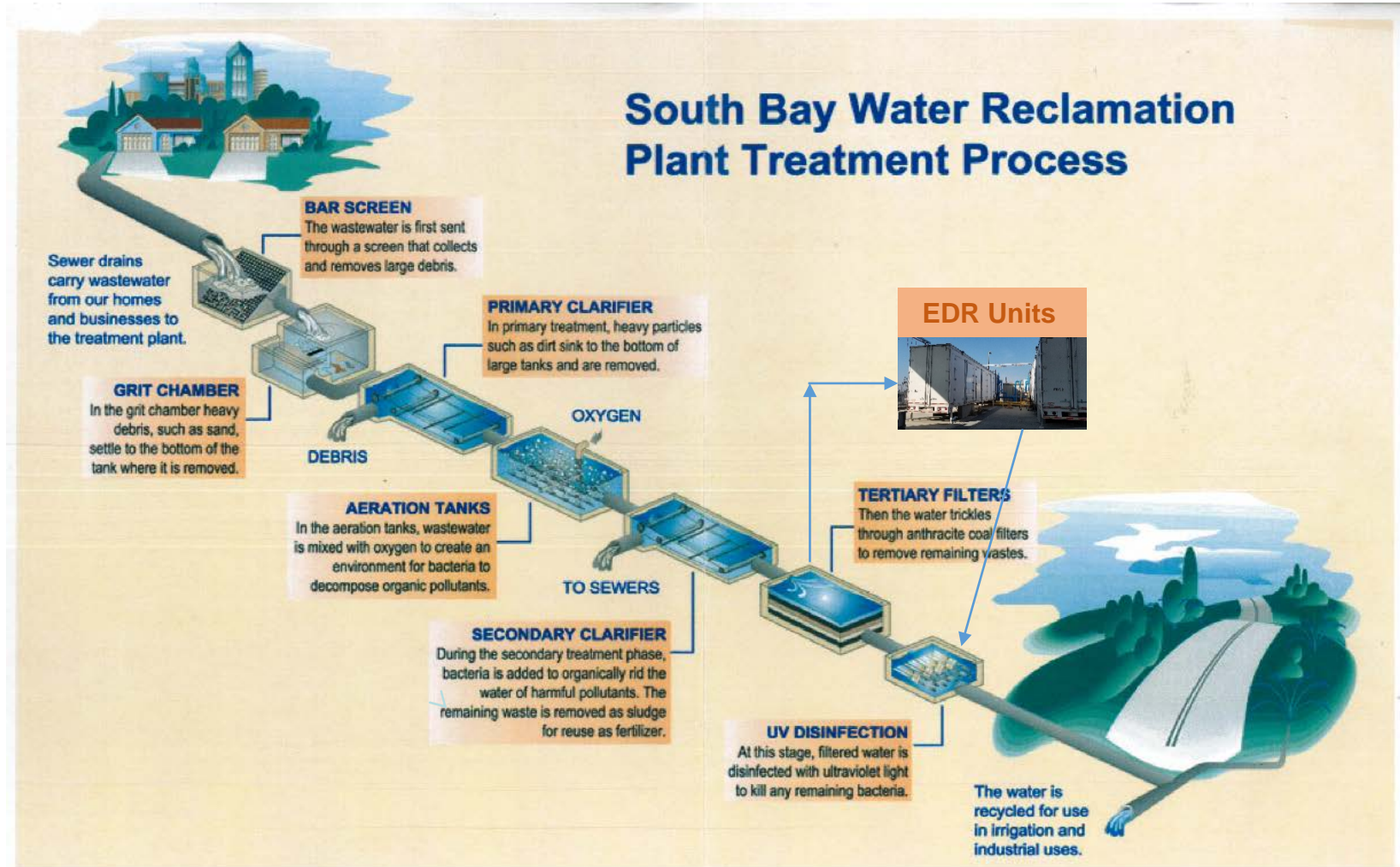
February 19, 2020

Public Utilities Department



Background

- The SBWRP is designed to treat up to 15 MGD of raw wastewater to tertiary reclaimed water standards
- EDR units are approximately 15 years old and were moved from NCWRP to SBWRP in 2017
- EDR units are operated to bring sodium, chloride and TDS into Title 22 compliance



Status

- Two trailer mounted EDR units that regularly have equipment failures
- Replacement equipment to perform repairs is difficult to find as much of it is obsolete
- Trailer environment is challenging – buckling floor, leaking pipes and fittings
- Planning for long term solution has started



Planning Effort

- Staff conducted a Business Case Evaluation (BCE) to examine different alternatives:
 1. “Do Nothing” alternative means repairing and maintaining existing system for about 10 more years
 2. Second alternative is to incorporate new EDRs into permanent/improved location
 3. Alternative 3 brings in newer technology into a permanent/improved location



Process and Timing

- Business Case Evaluation (BCE) has been completed
- Alternative 3 is preferred project
- Further project evaluation and review needed. We'll continue to provide updates
- FY 21 project initiation in order to demonstrate that City is being proactive about attempting to deal with Title 22 compliance issues



Questions ?

