



Engineering & Operations Committee

Water System Operations Manager's Report

Item 7a

Monday, May 10, 2022
9:30 a.m.

Current Operational Conditions

Continuing Drought Operations

- 2022 SWP Allocation is 5%
- SWP blend targets are 0% at Weymouth, Diemer, and Skinner plants
- DVL to Mills drought operation continues to perform well
- Managing storage based on WSDM principles
- April 2022 deliveries of 134 TAF were 4 TAF lower than April 2021

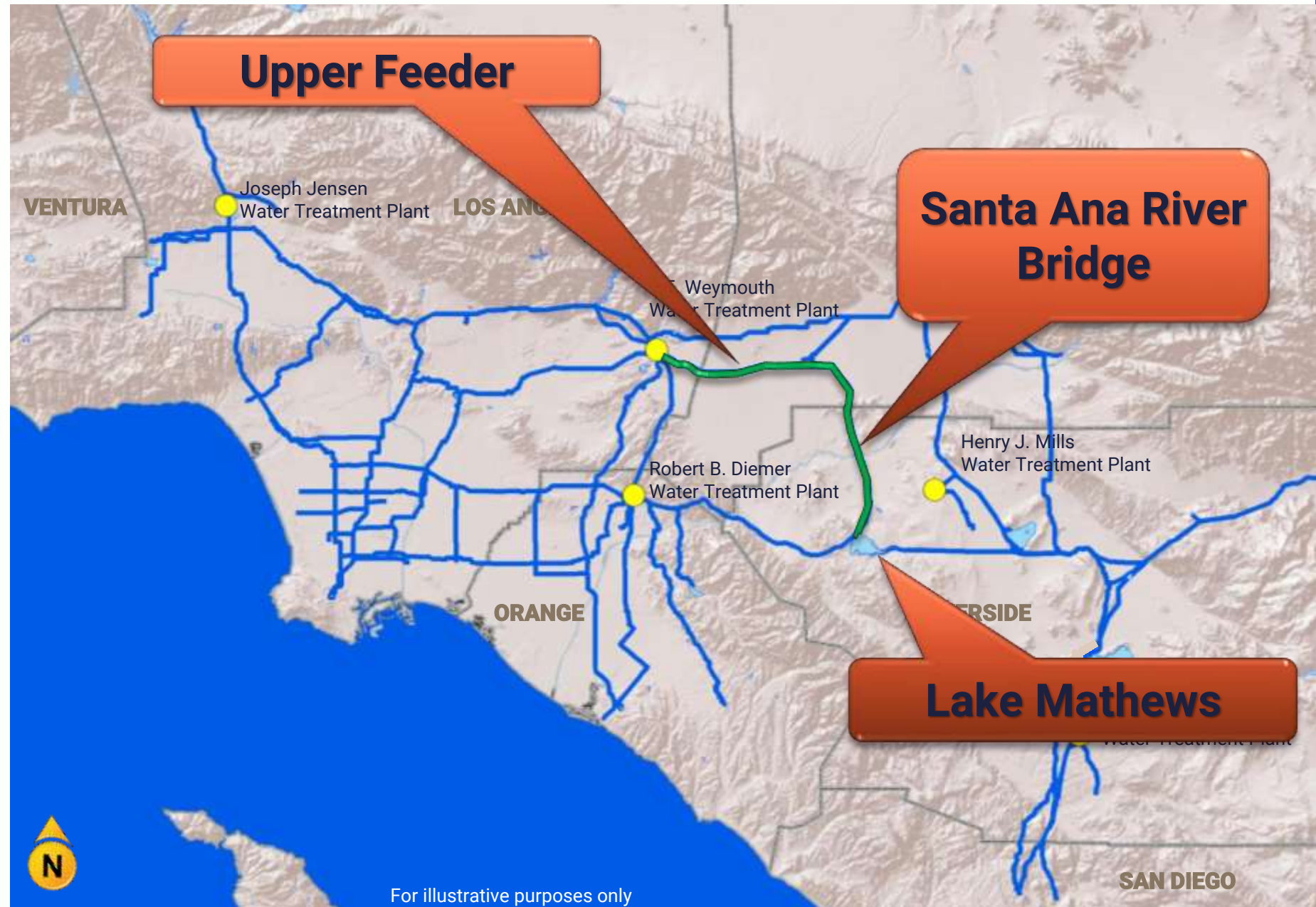
Improving Effectiveness Engineering/ Operations Partnering Effort



- ESG and WSO held its 5th Partnering Workshop to discuss key staff-led initiatives and continue to foster a high level of collaboration between the groups
- 70 staff and managers participated in this hybrid meeting

Upper Feeder Leak

April 13, 2022



Upper Feeder - Santa Ana River Bridge

- 1010' Long
- 116" Diameter
- 750 cfs max flow



Stainless steel bellows allow for pipeline expansion/contraction

Upper Feeder - Santa Ana River Bridge



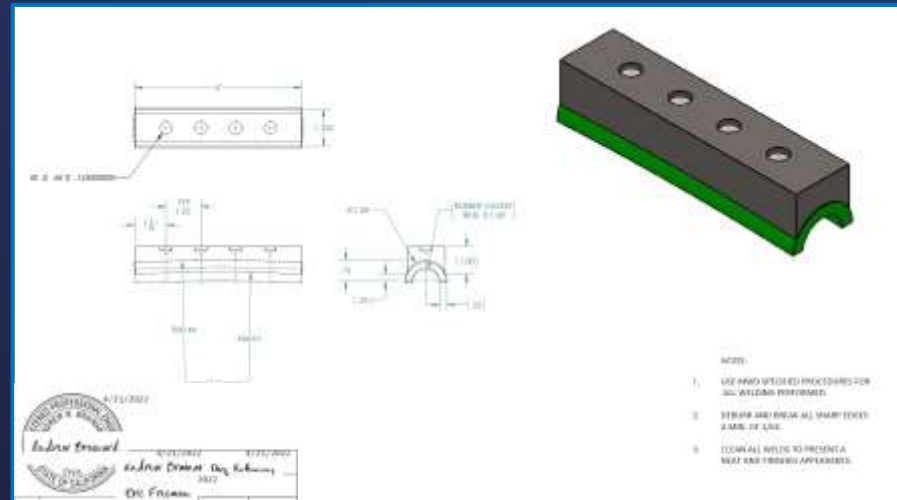
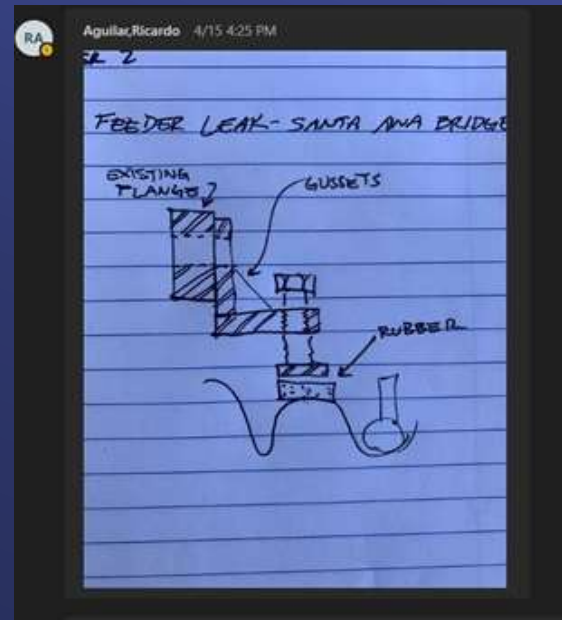
- Leak on bellows expansion joint
- Immediate temporary repair using rubber seal and jacking system

Liquid penetrant testing conducted

- No additional cracks observed



Upper Feeder Repair Plans



- Staff worked around-the-clock over the holiday weekend to investigate leak and develop immediate repair plan that reduced leak to a weep
- ESG/WSO collaborated online using Teams to design short-term innovative repair of custom bracket and plate fabricated in-house

Upper Feeder Repair Completed



- Short-term repair using custom bracket with backing plate, designed and fabricated in-house
- Urgent repair done while keeping feeder in operation to continue to provide CRW to region

Next Steps and Permanent Fix

Evaluate While in Service

- Increase flow incrementally while taking vibration measurements
- Perform hydraulic analysis to evaluate potential root causes
- Perform survey & structural inspection

Design & Procure Fix

- Likely new bellows or gland-packed expansion joint

Install

- Replace with new joint during future planned shutdown

