



Regional Recycled Water Program Update

Engineering and Operations Committee

Item 6b

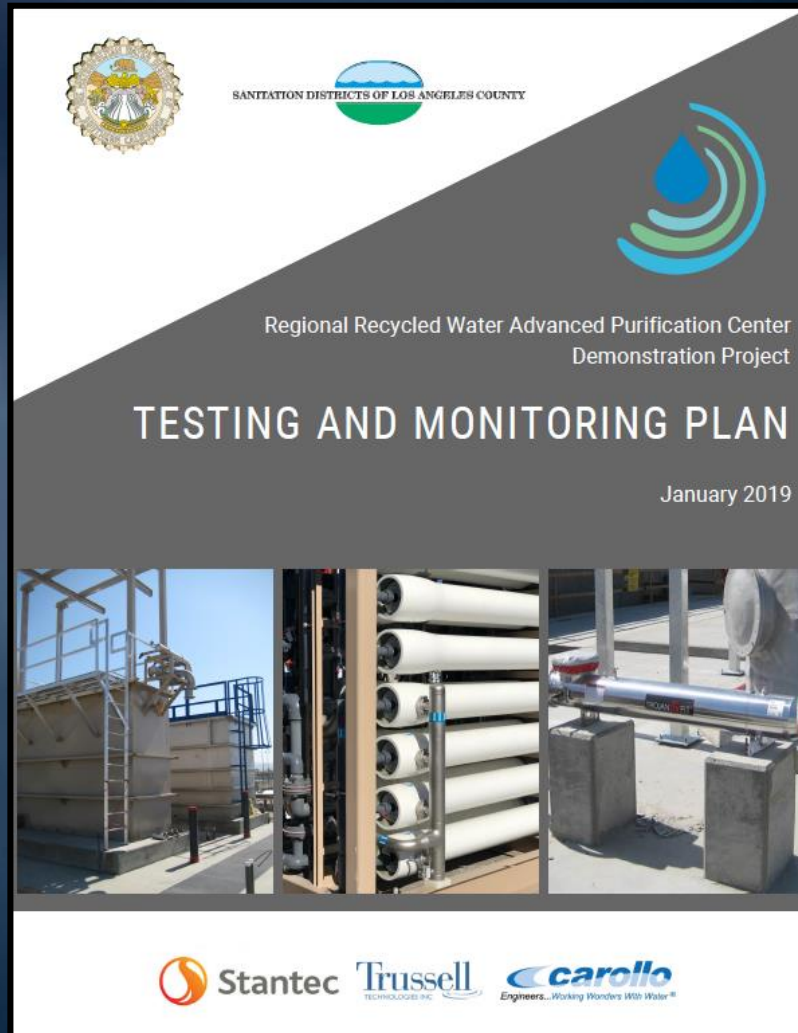
June 8, 2020

Outline

- Demonstration Plant Activities
 - Operations and Testing
- Panel and Regulatory Activities
- Agency Coordination
- Public Outreach
- Next Steps



Demonstration Plant Testing



Pre-testing

Equipment Testing and Process Acclimation (*Current Phase*)

Phase 1

Baseline Performance Testing (*4 months – Start July 2020*)

Phase 2

Challenge Testing and Evaluation (*8 months – Start Fall 2020*)

Demonstration Plant Activities

Pre-Testing Focus Areas

- Equipment testing, process acclimation, and method development
- Biological nitrogen removal and optimization



Instrument Installation

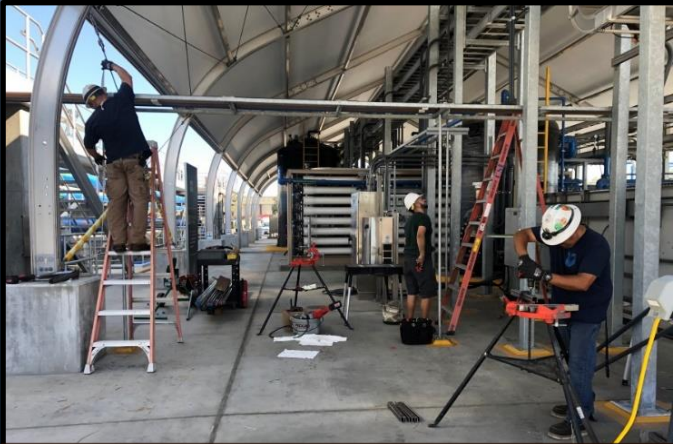


Bench-Scale Testing

Demonstration Plant Activities

Adapting to COVID-19

- Continuing scaled-down operation, monitoring and maintenance (COVID-19)
- Preparing for baseline testing with return to “normal” operations



New Conduits Installed



On-line Instruments Installed



Warranty Repairs

Demonstration Plant Activities

Facility Improvements



Safety Improvements



Pump and Piping Improvements



ISAP Workshop 3 and Regulatory Mtg. 8

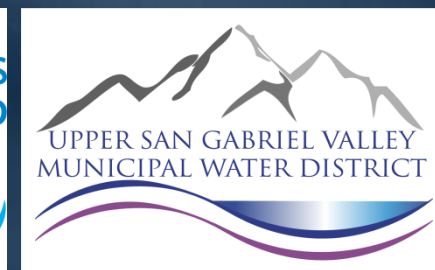
April 9, 2020

- Virtual workshop with panel and regulators
 - Some limitation lowering nitrogen levels through MBR
 - Continued nitrogen management studies at bench- and pilot-scales (LACSD)
 - Baseline demonstration testing to focus on MBR pathogen removal
- ISAP report supports proposed testing approach
- Next ISAP meeting planned for Fall 2020



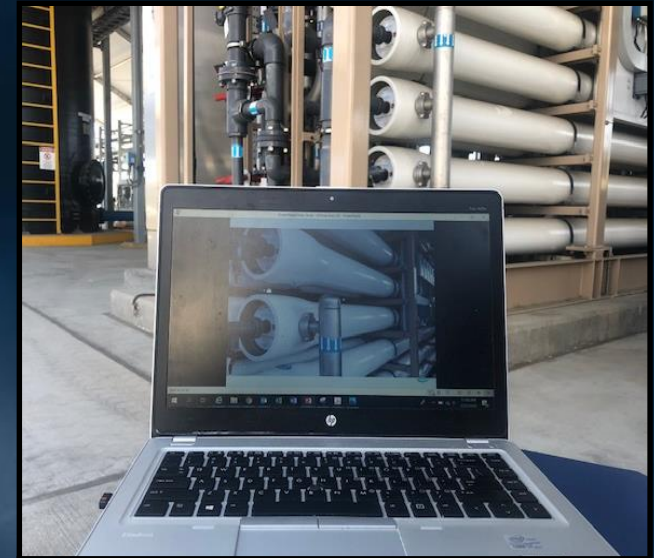
Agency Coordination

- Potential collaboration/partners
- Letters of Intent (LOI)
- Joint technical studies



Public Outreach - Tour Program

- In-person tours canceled
- Video created to showcase demonstration facility
- Virtual tours available
 - First virtual tour on June 4
 - Customized tours available for groups



Public Outreach - Program Recognition

- Owner of the Year from Engineering News Record
- Environmental Communications Award Grand Prize from AAEES

ENRCalifornia

California 2020 Owner of the Year: Water District Launches Innovative Recycling Plan



Next Steps for Program

White Papers



Fall 2020

Board Letter



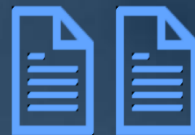
DONE

Workshop #1:
Implementation and
DPR Considerations

Workshop #2:
Planning, Agreements
and Financial
Considerations

Board Action on Next
Steps

July 23, 2019



Letters of Intent

Late 2020

Metropolitan's Recycled Water Website



INTRODUCTION HOW IT WORKS PROCESS BENEFITS STRATEGY MILESTONES RESOURCES PARTNERSHIP



Regional Recycled Water Advanced Purification Center

A NEW SOURCE OF WATER FOR SOUTHERN CALIFORNIA

Water is too precious to use just once. So the Metropolitan Water District of Southern California is making a major investment in a potential water recycling project that will reuse water currently sent to the ocean.

www.mwdh2o.com/RRWP

