Project Title: NAWI TASK 5.17 – (Salveson, Andy) Data-Driven Fault Detection and Process Control for Potable Reuse with Reverse Osmosis

**PROGRESS AND STATUS BY SUBTASK:**

# **Task: Task 5.17.1** – Desktop Evaluations

## **Task:** **Subtask 5.17.1.5 –** Data-Driven Model Optimization (DDMO) for Chloramine and Anti-Scalant Dosing

**Subtask Lead: Steve Hayden**

Research Questions:

* How much cost and energy could be saved across the reuse treatment train applying DDMO to adjust the pre-chloramine and antiscalant doses and predict a fault in real-time in response to water quality changes?

**PROGRESS AND STATUS:**

* Collected data from:
  + Las Virgenes Municipal Water District
    - All necessary data is available and shared among the team
  + Orange County Water District
    - All necessary data is available and shared among the team
  + West Basin Municipal Water District
    - Additional data from WBMWD is still needed.

### Budget Spent (YCA)

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### Summary

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# Desktop Evaluation based on OCWD (Operational Excellence Gr.)

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## Water Quality Prediction Model

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## RO Membrane Scaling Model Using Xact Data

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## RO Optimization Model

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