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Introduction

- Sacramento Regional Sanitation District’s Wastewater Treatment Plant $1.7 billion project
- Upgrades to reduce nutrients by 2021
  - Goal is to improve nitrogen (ammonia) removal
- Will the Delta food web and ecosystem improve?
Previous Operation
Baseline work

• New tools were developed: high frequency ammonium and phytoplankton sensors, benthic chamber
• Conceptual Framework developed
Operation Baseline 2.0

- Coordination and collaboration between researchers and managers
- Many knowledge gaps remain
- Sought proposal ideas from researchers in 2019

12 pre-proposals
8 full proposals
3 projects selected

Reviewed for scientific quality and management relevance
Three New Projects

- USGS: use **new technologies** to better understand changes in nutrients and shifts in phytoplankton communities – fixed station and boat measurements
- USGS and VIMS: **Modeling work** in collaboration with DWR
- BSA Environmental Services, Inc: analyzing the **tiniest** phytoplankton