

PROJECT:

LAHAINA WASTE WATER RECLAMATION FACILITY STAGE 1A IMPROVEMENTS



LOCATION: Lahaina, Maui, Hawaii

CLIENT: The County of Maui Department of Environmental Management

FIRM: Jacobs, 1132 Bishop Street, Suite 1100, Honolulu, Hawaii

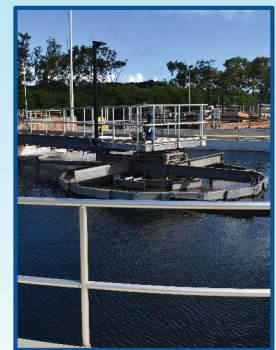
The Lahaina Waste Water Reclamation Facility Stage 1A Improvements Project addressed a positive step forward in addressing potential environmental sustainability challenges in the County of Maui including those due to the drought, climate change, population growth, agricultural demand, dependency on source water supply, and nutrient load caps. The County of Maui partnered with Jacobs to plan, design and construct improvements that made an aging plant into a state-of-the-art facility with improved biological unit process redundancy and Supervisory Control and Data Acquisition system. Continuous on-line dissolved oxygen and ammonia control allows improved control of aeration blowers, the plant's biggest energy demand. Parallel tank design allows operators to remove tanks from service to conduct maintenance without impacting wastewater treatment. These and other improvements allow the County of Maui to reduce wastewater discharged to existing injection wells providing more water for sustainable and beneficial reuse at golf courses and potentially to other future users.



Step-Feed Aeration Basin



SAB Aeration Flow Control



Clarifier Startup



Jacobs