

**PROPOSED PROJECT FOR SRF FUNDING FORM**

State Fiscal Year 19/20

Project Title: Nā'ālehu Wastewater Treatment and Disposal System and Drainage Modifications  
 County/Applicant: County of Hawaii  
 Estimated Cost: \$47,350,000 Estimated Start Date: March 2019  
 Project Description:

In conjunction with the Nā'ālehu Wastewater Collection System (No. C150090-04) and the Nā'ālehu Sewage Pump Station and Force Main (No. C150090-06) projects, this project will replace three (3) large capacity cesspools (LCCs) that currently serve the community. It will deliver collected wastewater from the terminus of the new collection system (separate projects as noted) to the future site of a new secondary wastewater treatment and disposal facility with an average dry weather flow capacity of 225,000 gallons per day, sufficient for closure of three existing LCCs. It would replace the LCCs, which can release disease-causing pathogens and other pollutants (such as nitrates) directly into groundwater and, eventually, the ocean, with a headworks for preliminary treatment, an aerated lagoon treatment system with subsurface flow constructed wetland and UV disinfection, and a slow-rate land application system for disposal of the treated and disinfected effluent. Land treatment systems rely on soil and vegetation rather than energy-intensive mechanical equipment to accomplish treatment objectives and are considered a form of "natural" treatment. The most suitable disposal site identified necessitates relocating the outfall of an existing drainage diversion. Design will also incorporate energy efficient pumps and aerators to minimize energy consumption. The new drainage modifications, transmission, treatment and disposal systems will meet current industry standards and comply with EPA requirements.

Place an "X" next to each item that applies. The project description must contain information supporting the applicable items.

1. Water Quality Protection		
✓ X	Corrects surface water quality impairment or eliminates/prevents ground water contamination.	12 pts.
2. Green Infrastructure		
	a. Water reuse facility providing R1 or R2 water and/or reuse transmission and/or distribution system.	10 pts.
<del>X</del>	b. Energy Efficiency or Renewable Energy: Uses energy efficient components (eg: motors, pumps, blowers, photovoltaic panels etc.) that reduce energy consumption of a major component by 20% or more; or provides for renewable energy (methane conversion, etc.) or other environmentally innovative technologies (eg: hydroelectric turbine at outfall line to generate electricity) to reduce energy consumption of the plant or major component by 20% or more.	<del>8 pts.</del>
	c. Promotes sustainable infrastructure to withstand the effects of rising sea levels due to climate change and provides adaptation for coastline inundation.	7 pts.
	d. Provides for wastewater sludge reuse.	7 pts
	e. Energy audit.	3 pts.
3. Compliance and Enforcement		

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✓	X	Project necessary to achieve compliance with federal or state compliance issue, consent decree, or court order.	5 pts.	5
<b>4. Project Need</b>				
		a. Secondary treatment for wastewater treatment plant.	4 pts.	
		b. Sewer collection system rehabilitation or replacement, infiltration/inflow correction.	4 pts.	
✓	X	c. Large capacity cesspool and landfill liner projects.	4 pts.	4
		d. Stormwater equipment, wastewater facilities.	3 pts.	

Total Points (for DOH use):	21
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