

**Capital Improvement Program**

CBS No: CBS-1124

Project Name: West Maui Recycled Water System Expansion

Department: Department of Environmental Management

District: West Maui

Project Type: Sewer

Anticipated Life: 30 years



Prior Years	Appr	Ensuing	Subsequent Years					Total
Expend/Encb	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	6-Year
3,947,331	0	500,000	14,000,000	0	0	0	0	14,500,000

**PROJECT DESCRIPTION**

In order to increase the usage of R-1 treated effluent, the current distribution system requires several phases of upgrades, modifications and additions. By increasing R-1 usage we can reduce the amount of potable water used for irrigation and the volume of treated effluent disposed of through our injection wells. This phased project has constructed additional UV disinfection facilities so that all water processed at the Lahaina WWRF reaches R-1 quality before reuse or disposal. The next phase (1B) is to design and create a pressurized distribution system for nearby properties. This includes a new tank and force main located on current Kaanapali Land Company property.

**PROJECT JUSTIFICATION**

Increased requirements by EPA (2011 Consent Agreement) to produce only R-1 quality water at the facility by December 31, 2013 for either reuse or underground injection required the construction of ultraviolet channels. Changing permit requirements will require increased reuse and an expanded and reliable distribution system. Expansion of R-1 usage for irrigation is a desire of the community and the administration.

**STRATEGIC PLAN ALIGNMENT**

**Department's Strategic Plan**

**Countywide Priority Results**

Sustain Reliable Wastewater Infrastructure  
 Ensure Facilities Meet Future Needs  
 Provide Reliable Wastewater Service

A Suitable Public Infrastructure  
 A Strong, Diversified Economy  
 An Efficient, Effective, and Responsive Government  
 A Prepared, Safe, and Livable County  
 A Healthy and Sustainable Community

**Operating Impact Narrative**

Significant increased costs in electrical power and maintenance anticipated due to R-1 production, pumping and system maintenance. Additional staff may be warranted upon completion of Phase 1 construction.

RECEIVED AT DEM MEETING ON 6/19/18  
*Committee Chair*

**Capital Improvement Program**

**FUNDING DETAILS**

Phase Description	Fund Code	Appr	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024
Acquisition	WF	0	500,000	0	0	0	0	0
New Construction	OG	0	0	2,887,670	0	0	0	0
New Construction	SRF	0	0	11,112,330	0	0	0	0

**Schedule of Activities**

Activity	Start	End	Amount
Acquisition	07/01/2018	12/31/2019	500,000
Design	07/01/2015	12/31/2016	0
New Construction	08/01/2019	12/31/2020	14,000,000
Total Capital Project Costs			14,500,000
Total O&M Costs			30,000
Total Capital & Operating Costs			14,530,000

**Methods of Financing (Ensuing + 5 Years)**

Funding Source	Amount
Other Grant Fund	2,887,670
Sewer Fund	500,000
State Revolving Loan Fund	11,112,330
Total Funding Requirements	14,500,000

	(i) Kuau No. 1 Force Main Replacement	50,000
	(ii) Kuau No. 2 Force Main Replacement	50,000
6.	Wailuku-Kahului Community Plan Area	
	a. Drainage	
	(1) Bond Fund	
	(i) Central Maui Landfill Stormwater Management Improvements	750,000
	b. Sanitation	
	(1) Bond Fund	
	(i) Central Maui Landfill Monitoring Well Design/Construction	500,000
	(ii) Central Maui Landfill Land Purchase	250,000
	(iii) Central Maui Landfill Phase III	250,000
	(2) Solid Waste Management Fund	
	(i) Leachate Collection and Recovery and Electrical Distribution System Upgrades	500,000
	(ii) Central Maui Landfill System Control and Data Acquisition	300,000
	c. Sewer	
	(1) Sewer Fund	
	(i) Wailuku-Kahului Environmental Protection Agency (EPA) Compliance Sewer Rehabilitation	2,000,000
	(ii) Wailuku-Kahului Wastewater Reclamation Facility (WWRF) Emergency Effluent Force Main	450,000
7.	West Maui Community Plan Area	
	a. Sewer	
	(1) Bond Fund	
	(i) West Maui Recycled Water System Expansion	500,000
	(a) Provided, that the Department of Environmental Management shall conduct community outreach before identifying a site and prior to encumbering or expending any funds.	
	(2) Sewer Fund	
	(i) Napili Wastewater Pump Station No. 4 Modifications	400,000
	(3) State Revolving Loan Fund	
	(i) Napili No. 3 Force Main Replacement	1,800,000
	(ii) Napili No. 4 Force Main Replacement	1,800,000
B.	Department of Finance	
	1. Countywide	
	a. Other Projects	
	(1) Bond Fund	
	(i) Countywide Equipment	4,320,000
	(a) Provided, that \$1,840,000 shall be for four automated refuse trucks: one each for Central Maui and West Maui and two for Makawao.	
	(b) Provided that 280,000 shall be for one roll-off truck for residential drop-off at the Central Maui Landfill.	