

Board of Water Supply
Capital Improvement Program
FY 2025

Summary by Categories	Operating Fund (1)	State Revolving Fund (2)	Special Expendable Fund (3)	Improvement Fund (4)	Extramural Fund (5)	Water Infrastructure Finance and Innovation Act (6)	Total
I. Research and Development	10,000,000	4,900,000	500,000	8,000,000	1,000,000	-	24,400,000
II. Renewal and Replacement							
A. Pumps	22,050,000	1,250,000	-	-	-	-	23,300,000
B. Reservoirs	-	400,000	-	-	-	-	400,000
C. Pipelines	2,350,000	55,576,000	-	18,000,000	-	-	75,926,000
D. Treatment	4,250,000	3,000,000	-	-	-	-	7,250,000
E. Facilities	14,550,000	4,000,000	-	7,500,000	-	-	26,050,000
Category II - sub-total	43,200,000	64,226,000	-	25,500,000	-	-	132,926,000
III. Capacity Expansion							
A. Pumps	275,000	-	500,000	5,750,000	-	-	6,525,000
B. Reservoirs	-	20,000,000	-	-	-	-	20,000,000
C. Pipelines	-	15,000,000	900,000	-	-	-	15,900,000
D. Treatment	-	100,000	-	-	-	-	100,000
E. Facilities	-	-	4,860,000	-	19,000,000	49,700,000	73,560,000
Category III - sub-total	275,000	35,100,000	6,260,000	5,750,000	19,000,000	49,700,000	116,085,000
Total - Categories I - III	53,475,000	104,226,000	6,760,000	39,250,000	20,000,000	49,700,000	273,411,000
Construction Cost Index Account	3,635,000	6,750,000	-	3,925,000	-	4,970,000	19,280,000
Contract Adjustment Account	11,350,000	800,000	350,000	5,100,000	-	-	17,600,000
Capital Improvement Program - Total	68,460,000	111,776,000	7,110,000	48,275,000	20,000,000	54,670,000	310,291,000

(1) Operating Fund is defined as rate revenue or cash.

(2) State of Hawai'i Department of Health State Revolving Fund (SRF) loan program is defined as low interest project loans from the State of Hawai'i.

(3) Special Expendable Fund is a restricted fund in which water system facilities charges are deposited and the funding reserved for water system capacity expansion projects.

(4) Improvement Fund is defined as the proceeds of Water System Revenue Bonds.

(5) Extramural Fund is a restricted fund, established by Resolution No. 778, 2007, in which funds received from any governmental agency or private entity, pursuant to negotiated agreements, contracts and/or grants, are deposited and separately accounted for.

(6) Water Infrastructure Finance and Innovation Act (WIFIA) Program is defined as a federal low fixed interest project loan administered by the Environmental Protection Agency (EPA) for water infrastructure projects.

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			Operating Fund	State Revolving Fund	Special Expendable Fund	Improvement Funds	Extramural Fund	Water Infrastructure Finance and Innovation Act	Total	
<u>I. Research and Development</u>										
1. Monitoring Wells for Red Hill Contamination Response	Drill and case up to three (3) monitoring wells for use as "sentinel" wells to warn of the presence of an underground fuel plume from the Red Hill fuel contamination.	CONST	-	-	-	8,000,000	1,000,000	-	9,000,000	
2. DLNR Windward Exploratory Well State Well Number (3-2449-002)	Prepare environmental assessment and Public Infrastructure Map (PIM) Amendment for one (1) production well at the existing Hawaii State Hospital site (Well 3-2449-002).	P&E	-	-	500,000	-	-	-	500,000	
3. Exploratory Wells for Red Hill Contamination Response – Ka'ōnohi 850'	Prepare design for one (1) exploratory well, environmental assessment, and Public Infrastructure Map (PIM) Amendment for the well, pump station and connecting pipelines at Ka'ōnohi 850'.	P&E	1,750,000	-	-	-	-	-	1,750,000	
4. Exploratory Wells for Red Hill Contamination Response – Waiau 550'	Prepare design for one (1) exploratory well, environmental assessment, and Public Infrastructure Map (PIM) Amendment for the well, pump station and connecting pipelines at Waiau 550'.	P&E	1,750,000	-	-	-	-	-	1,750,000	
5. BWS Water Master Plan Update	Update the BWS Water Master Plan for the capacity expansion and repair and replacement of BWS water system and facilities, pumping optimization, resource protection, conservation, and development of long-range capital improvement program and financial plan with public outreach.	P&E	4,000,000	-	-	-	-	-	4,000,000	
6. Environmental Investigation of Emerging Contaminants	Provide environmental, engineering and hydrology-geology consulting services related to emerging contaminants in groundwater supply.	P&E	-	4,900,000	-	-	-	-	4,900,000	
7. Construction Management for Various BWS Construction Projects	Provide construction management and training services for selected BWS construction projects.	P&E	2,000,000	-	-	-	-	-	2,000,000	

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			Operating Fund	State Revolving Fund	Special Expendable Fund	Improvement Funds	Extramural Fund	Water Infrastructure Finance and Innovation Act	Total
8. Construction Management for Various BWS - WSO Construction Projects	Provide construction management and training services for selected BWS - WSO construction projects.	P&E	500,000	-	-	-	-	-	500,000
Total Category I - Research and Development			10,000,000	4,900,000	500,000	8,000,000	1,000,000	-	24,400,000

II. Renewal and Replacement

A. Pumps

9. Waipi'o Heights Wells II Pump Replacement and Electrical Upgrades	Replace pump nos. 1 and 2, replace MCC and other electrical components, and other control building upgrades.	CONST	3,750,000	-	-	-	-	-	3,750,000
10. Waiau Booster No. 2 Electrical Upgrades	Replace MCC and other electrical components, replace pump nos. 1 and 2, and other control building upgrades.	CONST	5,000,000	-	-	-	-	-	5,000,000
11. Pearl City Booster No. 3 MCC Replacement	Replace MCC, SCADA system, and all electrical components and appurtenances.	CONST	4,000,000	-	-	-	-	-	4,000,000
12. Pump Renewal and Replacement	Renewal and replacement of various BWS pumps and plant facilities.	CONST	5,000,000	-	-	-	-	-	5,000,000
13. Temporary Pumping Connections	Install connections for temporary pumps at critical pump stations to improve reliability.	CONST	3,500,000	-	-	-	-	-	3,500,000
14. Wai'alaie Iki Booster No. 3 MCC Replacement	Replace MCC and appurtenances.	P&E	-	400,000	-	-	-	-	400,000
15. Hālawā Booster No. 1 Pump and MCC Replacement	Replace pump, MCC and appurtenances.	P&E	-	450,000	-	-	-	-	450,000
16. 'Ālewa Heights Booster No. 1 MCC Replacement	Replace MCC and appurtenances.	P&E	-	400,000	-	-	-	-	400,000
17. Pump Renewal and Replacement	Renewal and replacement of various BWS pumps and plant facilities.	P&E	300,000	-	-	-	-	-	300,000

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			Operating Fund	State Revolving Fund	Special Expendable Fund	Improvement Funds	Extramural Fund	Water Infrastructure Finance and Innovation Act	Total
18. Temporary Pumping Connections	Install connections for temporary pumps at critical pump stations to improve reliability.	P&E	500,000	-	-	-	-	-	500,000
Pumps Total			22,050,000	1,250,000	-	-	-	-	23,300,000
B. Reservoirs									
19. Wai'alaie 180 3.0 MG Reservoir Replacement	Prepare environmental assessment and Public Infrastructure Map (PIM) Amendment.	P&E	-	400,000	-	-	-	-	400,000
Reservoirs Total			-	400,000	-	-	-	-	400,000
C. Pipelines									
20. Keolu Hills Water System Improvements, Part II	Install 12-inch mains and appurtenances along Keolu Drive, from 'Akumu Street to Naniali'i Street; along 'Akumu Street, from Keolu Drive to Alahaki Street; along Iana Street, from Keolu Drive to FH W00766; and along Keolu Drive, from Kanapu'u Drive to Akalani Loop - approx. 3,580 lin. ft. Install 8-inch mains and appurtenances along 'Akumu Street, from Alahaki Street to Holoholo Street; along Keolu Drive, from Akalani Loop to Akahai Street; along Akahai Street, from Keolu Drive to Akamai Street; along Akaiki Street, from Akahai Street to Akamai Street; and along Halula Place, from 'Akumu Street to end - approx. 4,270 lin. ft. Install 4-inch mains and appurtenances along 'Akumu Place, from 'Akumu Street to end; along 'Akiu Place, from 'Akumu Street to end; and along Akalei Place from 'Akumu Street to end - approx. 540 lin. ft.	CONST	-	-	-	18,000,000	-	-	18,000,000

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			Operating Fund	State Revolving Fund	Special Expendable Fund	Improvement Funds	Extramural Fund	Water Infrastructure Finance and Innovation Act	Total
21. Mā'ili'i Road 20-Inch Main, Pa'akea Road to Lualualei Homestead Road	Install 20-inch main and appurtenances along Mā'ili'i Road, from Pa'akea Road to Lualualei Homestead Road - approx. 3,800 lin. ft.	CONST	-	7,500,000	-	-	-	-	7,500,000
22. Ali'ipoe Drive and Pa'ihi Street Area Water System Improvements	Install 12-inch and 8-inch mains and appurtenances along Ali'ipoe Drive, from near FH L00776 to Pōhue Street - approx. 2,110 lin. ft. Install 8-inch mains and appurtenances along Pa'ihi Street, from Ali'ipoe Drive to Pōhue Street; along Hūka'a Street, from Pa'ihi Street to Pōhue Street; along 'Iwa'iwa Street, from Hūka'a Street to Pōhue Street; along 'Iwa'iwa Street, from Hālawa Heights Road to Nahiolea Street; and along Pōhue Street, from Ali'ipoe Drive to Pa'ihi Street - approx. 4825 lin. ft. Install 8-inch and 4-inch mains and appurtenances along Pōhue Place, from Pōhue Street to end; and along Pōhuli Street, from Pa'ihi Street to 150' past FH L00790 - approx. 650 lin. ft.	CONST	-	13,000,000	-	-	-	-	13,000,000
23. Waiapo Place, Waihua Place and Waimomona Place Water System Improvements	Install 12-inch mains and appurtenances along Kolowaka Drive, from Waiapo Place to Waimomona Place - approx. 610 lin. ft. Install 8-inch and 4-inch mains and appurtenances along Waiapo Place, from Kolowaka Drive to end; along Waihua Place, from Kolowaka Drive to end; along Waimomona Place, from Kolowaka Drive to end - approx. 2,190 lin. ft.	CONST	-	5,000,000	-	-	-	-	5,000,000
24. Farrington Highway 24-Inch Main Rehabilitation	Rehabilitate 24-inch main along Farrington Highway from Barber's Point Line Booster to Nānākuli Avenue - approx. 25,000 lin. ft.	P&E	-	1,500,000	-	-	-	-	1,500,000
25. Service Lateral Replacement at Various Locations	Install and replace service laterals at various locations.	CONST	1,000,000	-	-	-	-	-	1,000,000

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			Operating Fund	State Revolving Fund	Special Expendable Fund	Improvement Funds	Extramural Fund	Water Infrastructure Finance and Innovation Act	Total
26. Lead and Copper Rule Improvements (LCRI) Implementation	Develop updated service line inventory (LCRI baseline inventory). Replace lead service lines (LSLs) and certain galvanized service within 10 years or less, at various locations, as required by the final rule.	P&E		28,576,000	-	-	-	-	28,576,000
27. Service Lateral Replacement at Various Locations	Topographic Survey for the service lateral replacement at various locations.	P&E	150,000	-	-	-	-	-	150,000
28. Water Main Installation and Replacement	Install and replace water mains at various locations.	CONST	100,000	-	-	-	-	-	100,000
29. Water System Improvements at Various Locations	Install mains and appurtenance to replace high risk water mains at various locations throughout the island.	P&E	1,000,000	-	-	-	-	-	1,000,000
30. Water Main Installation and Replacement	Install and replace water mains at various locations.	P&E	100,000	-	-	-	-	-	100,000
Pipelines Total			2,350,000	55,576,000	-	18,000,000	-	-	75,926,000
D. Treatment									
31. GAC Corrosion Control at Various Locations	Perform corrosion control of selected BWS GAC facilities. CM services funding included for this project.	CONST	3,500,000	-	-	-	-	-	3,500,000
32. Granular Activated Carbon Disposal Options	Develop an implementation plan for the construction of a GAC reactivation plant and provide support during implementation.	P&E	750,000	-	-	-	-	-	750,000
33. Mililani Wells I GAC Valve Replacement	Replacement of piping and valves and painting.	CONST	-	3,000,000	-	-	-	-	3,000,000
Treatment Total			4,250,000	3,000,000	-	-	-	-	7,250,000

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E. Facilities									
34. Mākaha Shaft Tunnel Rehabilitation	Replacement of all MCC, SCADA system, and all electrical components and appurtenances; replacement of pump units and associated piping, valves and appurtenances; replacement of ventilation system, plumbing system, and inclined elevator; replacement of 8-inch waterline and appurtenances; rehabilitation and expansion of the portal building; and replacement of the perimeter fencing.	CONST	-	-	-	7,500,000	-	-	7,500,000
35. Mānana Wells Control Valve Installation	Install a control valve assembly and water line connections to allow the controlled release of Pearl Harbor 285 system water into the Metropolitan 180 system needed due to the loss of Hālawā Shaft because of the Red Hill fuel contamination.	CONST	-	2,000,000	-	-	-	-	2,000,000
36. Ka'ahumanu Wells Control Valve Renovation	Upgrade control valve assembly and water line connections to more efficiently allow the controlled release of Pearl Harbor 285 system water into the Metropolitan 180 system needed due to the loss of Hālawā Shaft because of the Red Hill fuel contamination.	CONST	-	2,000,000	-	-	-	-	2,000,000
37. Pump Station Instrumentation & Controls and SCADA Upgrade	Upgrade instrumentation and controls equipment at various pump stations and revamp SCADA system to provide smarter functionality.	CONST	1,500,000	-	-	-	-	-	1,500,000
38. Pump Station Instrumentation & Controls and SCADA Upgrade	Upgrade instrumentation and controls equipment at various pump stations and revamp SCADA system to provide smarter functionality.	P&E	2,300,000	-	-	-	-	-	2,300,000
39. Security Improvements at Various Locations	Security improvements and enhancements includes, but not limited to fencing, doors and windows, vegetation setbacks and access control systems at various BWS locations.	CONST	3,000,000	-	-	-	-	-	3,000,000

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40. Facility Repair and Renovation	Repair, renovation, reroofing, fencing and repainting of selected BWS facilities.	CONST	6,000,000	-	-	-	-	-	6,000,000
41. Facility Repair and Renovation	Repair, renovation, reroofing, fencing and repainting of selected BWS facilities.	P&E	1,000,000	-	-	-	-	-	1,000,000
42. Monitoring Well Assessment and Repair	Provide well condition assessment and associated repair services for monitor wells.	P&E	150,000	-	-	-	-	-	150,000
43. Professional Services for BWS Projects	Obtain services of archaeologists, botanists, environmental engineers, water quality labs, planners, government agencies and others.	P&E	300,000	-	-	-	-	-	300,000
44. Pump Station Assessment and Operations/Repairs	Update pump station condition assessments and operations database.	P&E	300,000	-	-	-	-	-	300,000
Facilities Total			14,550,000	4,000,000	-	7,500,000	-	-	26,050,000
Total Category II - Renewal and Replacement			43,200,000	64,226,000	-	25,500,000	-	-	132,926,000

III. Capacity Expansion

A. Pumps

45. Ma'akua Wells Unit No. 2	Install new pump no. 2 in existing well including piping, valves, instrumentation, MCC, mute building, and retaining wall (TMK: 5-4-005:001).	CONST	-	-	-	5,750,000	-	-	5,750,000
46. Mānoa Well II Unit No. 2	Prepare environmental assessment and Public Infrastructure Map (PIM) Amendment for a second production well at existing Mānoa Well II Station (TMK: 2-9-054:033).	P&E	275,000	-	-	-	-	-	275,000
47. Red Hill Contamination Response Production Wells - Ka'ōnohi 850'	Land acquisition near the existing Ka'ōnohi 850' reservoir site to install new pump station and appurtenances.	LAND	-	-	500,000	-	-	-	500,000
Pumps Total			275,000	-	500,000	5,750,000	-	-	6,525,000

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			Operating Fund	State Revolving Fund	Special Expendable Fund	Improvement Funds	Extramural Fund	Water Infrastructure Finance and Innovation Act	Total
B. Reservoirs									
48. East Kapolei 215 R-1 3.0 MG Reservoir	Install 3.0 MG R-1 reservoir and appurtenances (TMK: 9-1-018:008). Install 16-inch main and appurtenances along the access road, from the reservoir to Farrington Highway - approx. 2,300 lin. ft.	CONST	-	20,000,000	-	-	-	-	20,000,000
Reservoirs Total			-	20,000,000	-	-	-	-	20,000,000
C. Pipelines									
49. Kualaka'i Parkway 16-Inch Recycled Water Main	Install 16-inch transmission main and appurtenances along Farrington Highway, from the access road to East Kapolei 215 recycled water reservoir to Kualaka'i Parkway; and along Kualaka'i Parkway, from Farrington Highway to Kapolei Parkway - approx. 12,000 lin. ft.	CONST	-	15,000,000	-	-	-	-	15,000,000
50. Honolulu District 42-Inch Mains - Liliha to Mō'ili'i AIS	Prepare and submit an archaeological inventory survey (AIS) plan, and conduct and complete an AIS for the Honolulu District 42-Inch Mains - Liliha to Mō'ili'i.	P&E			900,000				900,000
Pipelines Total			-	15,000,000	900,000	-	-	-	15,900,000
D. Treatment									
51. Mililani Wells II GAC Installation	Land acquisition for the installation two (2) new GAC vessels, backwash tank system, including pump and filter setup, chlorinator infrastructure and piping.	LAND	-	100,000	-	-	-	-	100,000
Treatment Total			-	100,000	-	-	-	-	100,000

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			Operating Fund	State Revolving Fund	Special Expendable Fund	Improvement Funds	Extramural Fund	Water Infrastructure Finance and Innovation Act	Total
E. Facilities									
52. Kalaeloa Sea Water Desalination Facility	Design-Build-Operate-Maintain (DBOM) contract for a 1.7 MGD desalination facility with limited oversizing for future expansion. Install 16-inch transmission main along the project boundary from desalination facility to Ōla'i Street, along Ōla'i Street from end to Kalaeloa Boulevard, along Kalaeloa Boulevard from Ōla'i Street to the existing 16-inch main near the Northern end of TMK 9-1-031:022- approx. 4,800 lin. ft.	CONST	-	-	-	-	19,000,000	49,700,000	68,700,000
53. Kalaeloa Sea Water Desalination Facility	Project Management Services to monitor DBOM progress, plan review and RFI response.	P&E	-	-	4,860,000	-	-	-	4,860,000
Facilities Total			-	-	4,860,000	-	19,000,000	49,700,000	73,560,000
Total Category III - Capacity Expansion			275,000	35,100,000	6,260,000	5,750,000	19,000,000	49,700,000	116,085,000
Total Categories I - III			53,475,000	104,226,000	6,760,000	39,250,000	20,000,000	49,700,000	273,411,000
Construction Cost Index Adjustment			3,635,000	6,750,000	-	3,925,000	-	4,970,000	19,280,000
Contract Adjustment Account			11,350,000	800,000	350,000	5,100,000	-	-	17,600,000
FY25 Capital Improvement Program Total			68,460,000	111,776,000	7,110,000	48,275,000	20,000,000	54,670,000	310,291,000