Board of Water Supply
Capital Improvement Program
FY 2027

| Summary by Categories | Operating Fund (1) | State Revolving Fund (2) | Special Expendable Fund (3) | Improvement Fund (4) | Total |
|---|---|---|---|---|---|
| **I. Research and Development** | 24,550,000 | - | - | - | 24,550,000 |
| **II. Renewal and Replacement** | | | | | |
| **A. Pumps** | 30,550,000 | 4,200,000 | - | - | 34,750,000 |
| **B. Reservoirs** | - | - | - | - | - |
| **C. Pipelines** | 10,200,000 | 58,000,000 | - | - | 68,200,000 |
| **D. Treatment** | 5,310,000 | 50,000,000 | - | - | 55,310,000 |
| **E. Facilities** | 24,550,000 | 2,000,000 | - | - | 26,550,000 |
| **Category II - sub-total** | 70,610,000 | 114,200,000 | - | - | 184,810,000 |
| **III. Capacity Expansion** | | | | | |
| **A. Pumps** | - | - | - | - | - |
| **B. Reservoirs** | - | - | - | - | - |
| **C. Pipelines** | 2,400,000 | - | - | - | 2,400,000 |
| **D. Treatment** | - | - | - | - | - |
| **E. Facilities** | - | - | 12,000,000 | - | 12,000,000 |
| **Category III - sub-total** | 2,400,000 | - | 12,000,000 | - | 14,400,000 |
| **Total - Categories I - III** | 97,560,000 | 114,200,000 | 12,000,000 | - | 223,760,000 |
| **Construction Cost Index Account** | 6,585,000 | 11,300,000 | 1,200,000 | - | 19,085,000 |
| **Contract Adjustment Account** | 16,840,000 | 1,325,000 | 1,250,000 | 4,550,000 | 23,965,000 |
| **Capital Improvement Program - Total** | 120,985,000 | 126,825,000 | 14,450,000 | 4,550,000 | 266,810,000 |

(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.

| | | | Operating Fund | State Revolving Fund | Special Expendable Fund | Improvement Fund | Total |
|---|---|---|---|---|---|---|---|
| **I. Research and Development** | | | | | | | |
| **1. Monitoring Well for Red Hill Contamination Response - Group IV** | Drill and case one monitoring well for use as "sentinel" well to warn of the presence of an underground fuel plume from the Red Hill fuel contamination. | CONST | 4,000,000 | - | - | - | 4,000,000 |
| **2. Waikele Gulch Exploratory Well** | Drill, install, test pump, and sample two exploratory wells. Install a temporary bridge to access the well site. | CONST | 7,000,000 | - | - | - | 7,000,000 |
| **3. Exploratory Wells For Red Hill Contamination Response - Kaʻōnohi 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. 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 DLNR Windward Exploratory Well (Well 3-2449-002). | P&E | 500,000 | - | - | - | 500,000 |
| **5. Schofield Plateau Exploratory Wells** | Prepare feasibility study, environmental assessment, and Public Infrastructure Map (PIM) Amendment for four (4) exploratory wells at Schofield Plateau near Monsanto Company Kunia. | P&E | 550,000 | - | - | - | 550,000 |
| **6. Beretania Public Service Building Emergency Generator and Island-Wide PV Systems Study** | Perform site investigation and study to determine options to provide an emergency generator for the Beretania Public Service Building, and suitable PV systems with battery storage for BWS facilities. | P&E | 1,000,000 | - | - | - | 1,000,000 |
| **7. Construction Management for Various BWS Construction Projects** | Provide construction management and training services for selected BWS construction projects. | P&E | 6,000,000 | - | - | - | 6,000,000 |
| **8. Construction Management for Various BWS - WSO Construction Projects** | Provide construction management and training services for selected BWS - WSO construction projects. | P&E | 750,000 | - | - | - | 750,000 |
| **9. Project Management for Various BWS Projects** | Provide project management, engineering and training services for selected BWS projects. | P&E | 3,000,000 | - | - | - | 3,000,000 |
| **Total Category I - Research and Development** | | | **24,550,000** | **-** | **-** | **-** | **24,550,000** |

| | | | Operating Fund | State Revolving Fund | Special Expendable Fund | Improvement Fund | Total |
|---|---|---|---|---|---|---|---|
| **II. Renewal and Replacement** | | | | | | | |
| **A. Pumps** | | | | | | | |
| **10. Permanent Generators at Various Locations** | Install up to two (2) permanent generators and appurtenances at selected BWS facilities. | CONST | 8,000,000 | - | - | - | 8,000,000 |
| **11. Hawai'i Loa Booster No. 2 Pump and MCC Replacement** | Replace booster pumps; replace MCC, SCADA system, and all electrical components and appurtenances; and limited control building upgrades. | CONST | 5,750,000 | - | - | - | 5,750,000 |
| **12. Ka'ōnohi Booster No. 2 MCC Replacement and Facility Repairs** | Replace booster pumps; replace MCC, SCADA system, and all electrical components and appurtenances; and limited control building upgrades. | CONST | 5,000,000 | - | - | - | 5,000,000 |
| **13. Makakilo Booster No. 1 Electrical Upgrades and Facility Repair** | Replace booster pumps and temporary pumping connections; replace MCC, SCADA system, and all electrical components and appurtenances; and limited control building upgrades. | CONST | 4,000,000 | - | - | - | 4,000,000 |
| **14. Kailua Heights Booster Electrical Upgrades and Facility Repair** | Replace booster pumps; replace MCC, SCADA system, and all electrical components and appurtenances; and limited control building upgrades. | CONST | - | 3,000,000 | - | - | 3,000,000 |
| **15. Niu Valley Booster No. 1 MCC Replacement and Facility Repairs** | Replace booster pumps; replace MCC, SCADA system, and all electrical components and appurtenances; and limited control building upgrades. | CONST | 3,000,000 | - | - | - | 3,000,000 |
| **16. Pump Renewal and Replacement** | Renewal and replacement of various BWS pumps and plant facilities. | CONST | 4,000,000 | - | - | - | 4,000,000 |
| **17. Makakilo Well MCC Replacement** | Install motor control center replacement. | P&E | - | 500,000 | - | - | 500,000 |
| **18. Bella Vista Booster No. 1** | Install booster pump and appurtenances from the Bella Vista 180' Reservoir to the Metro 405' system. | P&E | - | 700,000 | - | - | 700,000 |
| **19. Pump Renewal and Replacement** | Renewal and replacement of various BWS pumps and plant facilities. | P&E | 300,000 | - | - | - | 300,000 |
| **20. Temporary Pumping Connections** | Install connections for temporary pumps at critical pump stations to improve reliability. | P&E | 500,000 | - | - | - | 500,000 |
| **Pumps Total** | | | **30,550,000** | **4,200,000** | **-** | **-** | **34,750,000** |

| | | | Operating Fund | State Revolving Fund | Special Expendable Fund | Improvement Fund | Total |
|---|---|---|---|---|---|---|---|
| **B. Reservoirs** | | | | | | | |
| | | | - | - | - | - | - |
| **Reservoirs Total** | | | - | - | - | - | - |
| **C. Pipelines** | | | | | | | |
| **21. Hakimo Road: 24-Inch Water Mains** | Install 24-inch mains and appurtenances along Hakimo Road, from Farrington Highway to Ulehawa Road - approximately 4,150 linear feet. Replace check valve within the Lualualei Booster Station. | CONST | - | 10,000,000 | - | - | 10,000,000 |
| **22. Ihiloa Loop and Ehupua Place Area WSI** | Install 8-inch and 4-inch mains and appurtenances along Ihiloa Loop, from 100' East of Laukahi Street to ʻŌhiʻaloke Street; along ʻŌhiʻaloke Street, from Ihiloa Loop to ʻEhupua Place; along ʻEhupua Place, from ʻŌhiʻaloke Street to end (640 system); along ʻEhupua Place, from ʻŌhiʻaloke Street to end (405ʻ system); along Poʻola Street, from 170' North of Kiaʻi Place to Panalea Place; along Palaʻole Place, from Poʻola Street to end; and along Panalea Place, from Poʻola Street to end - approx. 4,300 lin. ft. | CONST | - | 10,000,000 | - | - | 10,000,000 |
| **23. Pacific Heights Road Area Water System Improvements** | Install 12-inch, 8-inch and 4-inch mains and appurtenances along Pacific Heights Road, from 2695 Pacific Heights Road to Von Hamm Place - approx. 1,500 lin. ft. | CONST | - | 2,500,000 | - | - | 2,500,000 |
| **24. Moanalua Road: 8-Inch Water Main Near Hekaha Street** | Install 8-inch mains and appurtenances along Moanalua Road to repair a main break leak - approx. 20 lin. ft. | CONST | - | 300,000 | - | - | 300,000 |
| **25. McCully Bridge 16-Inch Main Replacement of Pipe Supports** | Install concrete pipe supports beams and saddles, and appurtenances for the 16-inch main along the McCully Street Bridge. | CONST | - | 6,000,000 | - | - | 6,000,000 |

| | | | Operating Fund | State Revolving Fund | Special Expendable Fund | Improvement Fund | Total |
|---|---|---|---|---|---|---|---|
| **26. Lower Mariners Ridge Water System Improvements** | Install 12-inch mains and appurtenances along Kaluanui Road, from Kaloʻaloʻa Street to Kaluanui Place/Kaʻahue Street - approx. 1,480 lin. ft. Install 8-inch mains and appurtenances along Kaloʻaloʻa Street, from Kaʻahue Street to Kaluanui Road; along Kaʻahue Street, from Kaloʻaloʻa Street to Kaluanui Road; and along Kaluanui Place from Kaluanui Road to Kaluanui Way - approx. 2,875 lin. ft. Install 8-inch and 2 1/2-inch mains and appurtenances along Kawaiki Place, from Kaʻahue Street to end; along Kauku Place, from Kaʻahue Street to end; along Kapoho Place, from Kaʻahue Street to end; along Kapāpala Place, from Kaʻahue Street to end; along Kaʻohe Place, from Kaʻahue Street to End; along Kamoi Place, from Kaʻahue Street to End; along Kakiwa Place, from Kaluanui Road to end; along Kakapa Place, from Kaluanui Road to end; along Kaipuhaʻa Place, from Kaluanui Road to end; along Kahuwai Place, from Kaluanui Road to end; along Kahauloa Place, from Kaluanui Road to end; and along Kaluanui Way, from end to end - approx. 4,665 lin. ft. | CONST | - | 15,000,000 | - | - | 15,000,000 |
| **27. Kellog Street: 12-Inch Water Main** | Install 12-inch mains and appurtenances along Kellog Street, from Kilani Avenue to the North end of Kellog Street - approx. 1,420 lin. ft. Install 8-inch mains and appurtenances along Auwai Drive, from Kellog Street to Kolekole Drive - approx. 700 lin. ft. Repair the leaking 12-inch water main along the steep hillside on the southeast side of Kaukonahua Gulch (past the North End of Kellog Street). | CONST | - | 6,500,000 | - | - | 6,500,000 |
| **28. Kapolei Parkway 24-Inch R-1 Water Main** | Install 24-inch mains and appurtenances along Kapolei Parkway, from near FH No. L04892 to Kamōkila Boulevard - approx. 700 lin. ft. | CONST | - | 1,700,000 | - | - | 1,700,000 |
| **29. Monterey Drive and Sierra Drive: 8-Inch Water Mains** | Install 8-inch mains and appurtenances along Monterey Drive, from Lurline Drive to Mariposa Drive; and along Sierra Drive, from Wilhelmina Rise to Wilhelmina Rise near Manini Way - approx. 3,360 lin. ft. Install 8-inch and 4-inch mains and appurtenances along Monterey Place, from Monterey Drive to end; and along Lanipili Place, from Monterey Drive to end - | CONST | - | 6,000,000 | - | - | 6,000,000 |

| | | | Operating Fund | State Revolving Fund | Special Expendable Fund | Improvement Fund | Total |
|---|---|---|---|---|---|---|---|
| **30. Water Sampling Stations at Various Locations** | Install water sampling stations at various locations. | CONST | 1,000,000 | - | - | - | 1,000,000 |
| **31. Service Lateral Replacement at Various Locations** | Install and replace service laterals at various locations. | CONST | 1,500,000 | - | - | - | 1,500,000 |
| **32. Water Main Installation and Replacement** | Install and replace water mains at various locations. | CONST | 100,000 | - | - | - | 100,000 |
| **33. Water System Improvements at Various Locations** | Install mains and appurtenance to replace high risk water mains at various locations throughout the island. | P&E | 7,000,000 | - | - | - | 7,000,000 |
| **34. Fire Hydrant Installations at Various Location** | Fire hydrant installations at various locations. | P&E | 500,000 | - | - | - | 500,000 |
| **35. Water Main Installation & Replacement** | Install and replace water mains at various locations. | P&E | 100,000 | - | - | - | 100,000 |
| **Pipelines Total** | | | **10,200,000** | **58,000,000** | **-** | **-** | **68,200,000** |
| **D. Treatment** | | | | | | | |
| **36. PFAS Treatment Facility at Ka‘amilo Wells** | Install four (4) new GAC vessels, backwash tank system, including pump and filter setup, and piping. | CONST | - | 14,000,000 | - | - | 14,000,000 |
| **37. PFAS Treatment Facility at Moanalua Wells** | Install eight (8) new GAC vessels, backwash tank system, including pump and filter setup, and piping. | CONST | - | 26,000,000 | - | - | 26,000,000 |
| **38. PFAS Treatment Facility at Pearl City Shaft** | Install two (2) new GAC vessels, backwash tank system, including pump and filter setup, chlorinator infrastructure and piping. | CONST | - | 10,000,000 | - | - | 10,000,000 |
| **39. 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 |
| **40. Granular Activated Carbon Disposal Options** | Develop an implementation plan for the construction of a GAC reactivation plant. Design RFP development, provide project management services to monitor DBOM progress and provide operations management oversight for 12-month period after construction complete. | P&E | 1,000,000 | - | - | - | 1,000,000 |
| **41. Treatment Repair and Rehabilitation** | Repair and replacement of various BWS treatment facilities. | P&E | 810,000 | - | - | - | 810,000 |
| **Treatment Total** | | | **5,310,000** | **50,000,000** | **-** | **-** | **55,310,000** |

| | | | Operating Fund | State Revolving Fund | Special Expendable Fund | Improvement Fund | Total |
|---|---|---|---|---|---|---|---|
| **E. Facilities** | | | | | | | |
| **42. Kalama Valley Pressure Reducing Valve Improvements** | Install two pressure reducing valves and 12-inch main and appurtenances along Hawai'i Kai Drive, West of Kalama Valley. Install PRVs underground in vaults along with communication and supervisory controls. | CONST | - | 2,000,000 | - | - | 2,000,000 |
| **43. 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 | 2,000,000 | - | - | - | 2,000,000 |
| **44. 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 | 4,000,000 | - | - | - | 4,000,000 |
| **45. Facility Repair and Renovation** | Repair, renovation, reroofing, fencing and repainting of selected BWS facilities. | CONST | 10,000,000 | - | - | - | 10,000,000 |
| **46. Pump Station Building Repairs** | Reroofing, painting, exterior and interior repairs of selected pump station building facilities. | CONST | 3,000,000 | - | - | - | 3,000,000 |
| **47. Mauna 'Olu 530 Open Reservoir Dam Assessment** | Conduct geotechnical investigation and prepare slope stability analysis of dam embankment under various loading conditions; update Hydrologic and Hydraulic Study; conduct topographic survey and prepare topographic map of dam and reservoir site; and identify and evaluate options to establish upstream control of outlet works. | P&E | 800,000 | - | - | - | 800,000 |
| **48. Kona Low Storm Repairs** | Repairs to access roads and facilities damaged by the Kona Low Storm in March 2026 | P&E | 2,000,000 | - | - | - | 2,000,000 |
| **49. Facility Repair and Renovation** | Repair, renovation, reroofing, fencing and repainting of selected BWS facilities. | P&E | 2,000,000 | - | - | - | 2,000,000 |
| **50. Monitoring Well Assessment and Repair** | Provide well condition assessment and associated repair services for monitor wells. | P&E | 150,000 | - | - | - | 150,000 |
| **51. 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 |
| **52. Pump Station Assessment and Operations/Repairs** | Update pump station condition assessments and operations database. | P&E | 300,000 | - | - | - | 300,000 |
| **Facilities Total** | | | **24,550,000** | **2,000,000** | **-** | **-** | **26,550,000** |
| **Total Category II - Renewal and Replacement** | | | **70,610,000** | **114,200,000** | **-** | **-** | **184,810,000** |

| | | | Operating Fund | State Revolving Fund | Special Expendable Fund | Improvement Fund | Total |
|---|---|---|---|---|---|---|---|
| **III. Capacity Expansion** | | | | | | | |
| **A. Pumps** | | | | | | | |
| | | | - | - | - | - | - |
| **Pumps Total** | | | **-** | **-** | **-** | **-** | **-** |
| **B. Reservoirs** | | | | | | | |
| | | | - | - | - | - | - |
| **Reservoirs Total** | | | **-** | **-** | **-** | **-** | **-** |
| **C. Pipelines** | | | | | | | |
| **53. Kalākaua Avenue 16-Inch Main and Saratoga Road 12-Inch Main** | Install 16-inch main and appurtenances along Kalakaua Avenue, from Ala Wai Bridge to Ka‘iulani Avenue - approx. 5,260 lin. ft. Install 12-inch main and appurtenances along Saratoga Road, from Kalākaua Avenue to Kalia Road - approx. | P&E | 1,500,000 | - | - | - | 1,500,000 |
| **54. Honolulu District 42-Inch Mains - Liliha to Mō‘ili‘ili 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 Mo‘ili‘ili. | P&E | 900,000 | - | - | - | 900,000 |
| **Pipelines Total** | | | **2,400,000** | **-** | **-** | **-** | **2,400,000** |
| **D. Treatment** | | | | | | | |
| | | | - | - | - | - | - |
| **Treatment Total** | | | **-** | **-** | **-** | **-** | **-** |

| | | | Operating Fund | State Revolving Fund | Special Expendable Fund | Improvement Fund | Total |
|---|---|---|---|---|---|---|---|
| **E. Facilities** | | | | | | | |
| **55. 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 Ōlaʻi Street; along Ōlaʻi Street, from end to Kalaeloa Boulevard; along Kalaeloa Boulevard, from Ōlaʻi Street to the existing 16-inch main near the Northern end of TMK 9-1-031:022 - approx. 4,800 lin. ft. | CONST | - | - | 12,000,000 | - | 12,000,000 |
| **Facilities Total** | | | **-** | **-** | **12,000,000** | **-** | **12,000,000** |
| **Total Category III - Capacity Expansion** | | | **2,400,000** | **-** | **12,000,000** | **-** | **14,400,000** |
| **Total Categories I - III** | | | **97,560,000** | **114,200,000** | **12,000,000** | **-** | **223,760,000** |
| **Construction Cost Index Adjustment** | | | **6,585,000** | **11,300,000** | **1,200,000** | **-** | **19,085,000** |
| **Contract Adjustment Account** | | | **16,840,000** | **1,325,000** | **1,250,000** | **4,550,000** | **23,965,000** |
| **FY27 Capital Improvement Program Total** | | | **120,985,000** | **126,825,000** | **14,450,000** | **4,550,000** | **266,810,000** |