

**Appendix A**  
**DWSRF Priority List of Projects for SFY 2015**

No.	Points	DWSRF Project No.	Public Water System	Population	Owner	Project (Name and Description)	Green Project Reserve Type	Expected Construction Start Date	Estimated Construction Cost
1	180	DW133-0004	#133 DWS Kukuiahaele	463	Hawaii DWS	<b>Kapulena Well Development Phase 2 (Production Well and 0.3 MG Reservoir):</b> Outfit exploratory well into a production well to replace Waiulili Springs (a GWUDI source) and the existing Kukuiahaele Well (low sustainable yield ~ 50 gpm and high total chloride levels) with a new groundwater source. Project includes new 0.3 MG reservoir and new waterlines to connect the Kapulena Well with the existing Kukuiahaele reservoir (0.1 MG) and also provide fire protection. <i>(Binding commitment executed)</i>		SFY 2015	\$ 3,500,000
2	155	DW130-0003	#130 DWS South Kohala	11,927	Hawaii DWS	<b>Waimea WTP Microfiltration:</b> Microfiltration plant for increased reliability and better turbidity removal performance to meet the Long Term 2 Surface Water Treatment Rule. Reduce need to pump wells to supplement the water system's demands.		SFY 2015	\$ 10,000,000
3	140	DW413-0003	#400 DOW Lihue-Kapaa	27,055	Kauai DOW	<b>WK-02; Akulikuli Tunnel Repairs, Water Treatment Plant Construction and Pipeline Replacement:</b> The Department plans to renew the Akuikuli Tunnel gravity water source. The tunnel was used as a drinking water source until it was determined to be under the influence of surface water and is currently off-line. The project consists of repairing tunnel portals, constructing a new membrane type treatment plant at the existing Ornellas Tank Site and pipeline replacement between the tunnel and proposed WTP. This project will bring this water source into compliance with the Safe Drinking Water Act for groundwater sources under the influence of surface water. Furthermore, our estimates show that we can offset approximately 450,000 kWh/year in pumping costs by taking advantage of the high level gravity source and utilizing membrane type treatment technology.		Jan-16	\$ 5,500,000
4	140	DW412-0003	#400 DOW Lihue-Kapaa	27,055	Kauai DOW	<b>PLH-02, PLH-42; Kokolau Tunnel Water Treatment Plant Construction and Pipeline Replacement:</b> The Department plans to renew the Kokolau Tunnel gravity water source. The tunnel was previously used as a drinking water source until it was determined to be under the influence of surface water and is currently off-line. The project consists of constructing a new membrane type treatment plant at the existing Grove Farm Tank Site and replacing a segment of leaky concrete pipeline in between the tunnel and the proposed WTP. This project will bring this water source into compliance with the Safe Drinking Water Act for groundwater sources under the influence of surface water. Furthermore, our estimates show that we can offset approximately 300,000 kWh/year in pumping costs by taking advantage of the high level gravity source and utilizing membrane type treatment technology.	Water Efficiency	Jan-16	\$ 5,000,000
5	140	DW214-0008	#214 DWS Lahaina	18,598	Maui DWS	<b>Mahinahina Water Treatment Facility Retrofit:</b> Retrofit WTF from multimedia to membrane filtration to achieve positive barrier to enhance water quality.		SFY 2015	\$ 11,121,000
6	135	DW103-0001	#103 DWS Ninole	151	Hawaii DWS	<b>Ninole Well "A" (Replace Chaves Spring):</b> Replacement source for Chaves Spring, which has atrazine.		SFY 2015	\$ 2,000,000
7	120	DW214-0006	#214 DWS Lahaina	18,598	Maui DWS	<b>Honokahua Well "A" GAC Treatment:</b> Installation of Granular Activated Carbon Adsorption System to provide treatment for the removal of DBCP from well serving Mahinahina (Lahaina) system.		SFY 2015	\$ 2,500,000
8	115	DW233-0001	#233 DWS Ualapue	1,031	Maui DWS	<b>Ualapue Well Replacement:</b> Installation of replacement source for Ualapue System, which has increasing chloride levels and may be susceptible to becoming a groundwater under the influence of surface water.		SFY 2017	\$ 3,500,000
9	115	DW129-0001	#129 DWS North Kohala	4,822	Hawaii DWS	<b>Halaula Well Development Phase 1:</b> Replacement source for Bond Tunnel to comply with the Lead and Copper Rule. Construction of potable water well, 0.5 MG reservoir, chlorine/control building, electrical and site improvements, and other supporting facilities. <i>(Binding commitment executed)</i>		SFY 2015	\$ 3,000,000
10	115	DW215-0011	#215 DWS Upper Kula	6,918	Maui DWS	<b>Olinda Water Treatment Facility- Organic Carbon Reduction:</b> Provide design to reduce organic carbon in the raw water prior to treatment at the Olinda WTF. <i>(Binding commitment executed)</i>		SFY 2016	\$ 4,000,000

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11	115	DW434-0006	#434 DOW Kalaheo	15,108	Kauai DOW	<b>K-17; Kalaheo Water Treatment Plant:</b> Renew the Kalaheo gravity water source utilizing surface water from Alexander Dam reservoir. This project will bring the source into compliance with the Safe Drinking Water Act for treated surface water. Estimates show that the Department can offset approximately 500,000 kWh/year in pumping costs by taking advantage of the high level gravity source and utilizing membrane technology.	Energy Efficiency (Categorical)	Jan-16	\$ 4,500,000
12	110	DW335-0011	#335 BWS Waipahu-Ewa-Waianae	175,326	Hon BWS	<b>GAC Treatment for Waipio Heights Wells and Waipio Heights Wells I, Part A:</b> Part A: Install 16-inch mains and appurtenances along Lumihohu Street from Waipio Heights Wells and Wells I to Lumiaina Street, along Lumiaina Street from Lumihohu Street to Kamehameha Highway, along Kamehameha Highway from Lumiaina Street to Waipahu Wells III - approx. 4,000 lin. ft. Part B (non-SRF): Install two (2) GAC units at Waipahu Wells III, appurtenances and piping to connect to main		SFY 2015	\$ 4,500,000
13	100	DW217-0004	#217 DWS Hana	1,134	Maui DWS	<b>Hamoia to Koali Waterline Project:</b> Replace 2,000 LF of inadequate and leaking pipeline with 8-in waterline to serve the Koali area of Hana.	Water Efficiency	SFY 2015	\$ 1,000,000
14	100	DW215-0012	#215 DWS Upper Kula	6,918	Maui DWS	<b>Piiholo WTF Control Upgrades:</b> Replace existing auto control system with new control/operation system	Energy Efficiency	Oct-13	\$ 1,300,000
15	100	DW213-0012	#213 DWS Makawao	27,642	Maui DWS	<b>Hamakuapoko Wells Upgrades:</b> Replacement of the existing well pumps and motors at the two well locations with submersible pumps and related electrical equipment. A new 100,000 gallon tank will be added with related piping.	Energy Efficiency (Categorical)	SFY 2015	\$ 2,000,000
16	100	DW213-0015	#213 DWS Makawao	27,642	Maui DWS	<b>Haliimaile Tank Replacement:</b> Replace the existing 47,000 gallon corrugated steel lined tank with a new approximately 75,000 gallon glass lined steel stank for water storage. <i>(Binding commitment executed)</i>	Water Efficiency	Aug-14	\$ 700,000
17	100	DW212-0015	#212 DWS Wailuku	68,054	Maui DWS	<b>Iao Surface Water Treatment Plants Upgrades:</b> Upgrade the existing 1.2 MGD Iao Surface Water Treatment Plant. Upgrades includes a building to shelter the microfiltration units (the existing units are exposed with no building), install new microfiltration units and related filter backwash facilities for a 1.2 MGD capacity. The project will provide a reliable water treatment facility. High efficiency pumps will be installed.	Energy Efficiency (Categorical)	SFY 2016	\$ 15,000,000
18	100	DW214-0014	#214 DWS Lahaina	17,967	Maui DWS	<b>Mahinahina Well #1 Development:</b> Development of the well to include pump installation, tank and waterline installation, well site improvements including paving, electrical/control building, and access roads to the well site. <i>(Binding commitment executed)</i>	Energy Efficiency (Categorical)	Aug-13	\$ 9,000,000
19	90	DW109-0002	#109 DWS Pahala	1,245	Hawaii DWS	<b>Pahala Village Waterline Replacement:</b> Replace approximately 2,800 LF of 2" galvanized waterline which is deteriorating and prone to leaks and breaks.	Water Efficiency	SFY 2018	\$ 840,000
20	90	DW161-0002	#161 DWS Haina	2,316	Hawaii DWS	<b>Ahualoa-Honokaa Transmission Waterline:</b> Construct a waterline from the proposed Ahualoa production well to the Haina system to help transport the new groundwater source to the system. Replace existing pipeline prone to breaks and leaks. <i>(Binding commitment executed)</i>	Water Efficiency	SFY 2015	\$ 2,319,148
21	90	DW233-0002	#233 DWS Ualapue	1,001	Maui DWS	<b>Kualapuu MCC Upgrades:</b> Replace MCC and related electrical controls.		Mar-15	\$ 500,000
22	90	DW106-0002	#106 DWS Pepeekeo	1,423	Hawaii DWS	<b>Pepeekeo Waterline Replacement:</b> Replace approximately 800 LF of cast iron waterline and 1,800 LF of asbestos-concrete pipe which is deteriorating and prone to leaks and breaks.	Water Efficiency	SFY 2017	\$ 845,000

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23	90	DW402-0001	#402 DOW Anini	156	Kauai DOW	<b>ANI-01B; Anini-Kalihiwai-Kilauea (Phase 2) Pipeline:</b> Replace approximately 10,000 feet of pipeline (Phase 2 section). The Department proposes to construct a new transmission waterline from its Kilauea-Waipake-Kalihiwai Water System to provide water supply to current DOW customers. The transmission route will be located along Kuhio Highway, Kalihiwai Road, crossing underneath Kalihiwai Stream, and Anini Road. In addition to supplying customers directly along the transmission route, the waterline will also reconnect to waterlines along Kalamania Road, Kaohe Road, and Kalihiwai Valley Road. The purpose of the project is two-fold. First, it will provide fire flow protection to several locations along the transmission route, which the current waterlines are not capable of doing. Second, it will replace the water supply to current DOW customers along Anini Road and Kalihiwai Valley Road, which is currently provided by another water purveyor (Princeville Utilities) through financial agreements with DOW, thereby providing greater system security by affording DOW complete control over the water system.	Water Efficiency	Sep-14	\$ 3,300,000
24	90	DW403-0004	#403 DOW Hanalei	988	Kauai DOW	<b>H-05: Weke, Anae &amp; He'e Roads Water Main Replacements:</b> Project involves replacing 3300 LF of 8-in and smaller diameter waterline along the subject roads, and installation of related appurtenances (i.e., valves, hydrants, service laterals, etc.). Existing pipe is beyond useful life (>50 yrs) and project will extend/enhance domestic service levels.	Water Efficiency	Aug-14	\$ 1,300,000
25	90	DW406-0009	#406 DOW Kekaha-Waimea	5,392	Kauai DOW	<b>Paua Valley Tank No. 1 Water Loss Abatement:</b> Project involves abating water loss in Puau Valley Tank No. 1. This concrete tank has exhibited leaks along the wall/floor joint. Project tasks include draining the tank, sealing/ repairing the leak points and applying a new interior liner to extend tank service life.	Water Efficiency	Oct-14	\$ 500,000
26	90	DW406-0010	#406 DOW Kekaha-Waimea	5,392	Kauai DOW	<b>Paua Valley Well Enhancements:</b> Project involves replacement/ enhancement of the MCC and pump/motor. The existing, aging MCC will be replaced with newer, higher-efficiency equipment to reduce electrical expenses and improve operational flexibility. The existing oil-lubrication type pump/motor will be exchanged for one of water-lubrication type. The alternative equipment will reduce maintenance costs and improve safety.	Energy Efficiency	May-15	\$ 300,000
27	90	DW404-0007	#404 DOW Hanapepe-Eleele	4,457	Kauai DOW	<b>HE-03b, HE-03c: Hanapepe Wells A &amp; B Enhancements:</b> Project involves replacement/ enhancement of the MCC and disinfection system. The existing, aging MCC will be replaced with newer, higher-efficiency equipment to reduce electrical expenses and improve operational flexibility. The existing disinfection system (chlorine gas) will be replaced with a sodium-hypochlorite feed system and 30-day on-site supply. This conversion will reduce disinfection maintenance expenses (labor, etc.).	Energy Efficiency	May-15	\$ 500,000
28	90	DW404-0005	#404 DOW Hanapepe-Eleele	4,457	Kauai DOW	<b>HE-14: Ele' Ele Booster Rehabilitation:</b> Project involves rehabilitation of the subject booster station. Specific tasks include pump and other electrical/mechanical appurtenance replacements, as well as system reconfiguration. The existing pumps and related operational equipment have exceeded their useful service, which requires DOW labor and other expenditures in excess of typical daily/weekly maintenance. Project will increase the operational efficiency of the station while reducing the current maintenance levels.	Energy Efficiency	Jan-15	\$ 350,000
29	90	DW160-0001	#160 DWS Lalamilo	1,903	Hawaii DWS	<b>Puako Waterline Replacement:</b> Replace approximately 4,600 LF of 8" diameter waterline, 2,700 LF of 12" diameter waterline, and upsize approximately 3,600 LF of 8" diameter to 12" diameter waterline. Existing waterlines are old, deteriorating, and subject to leakage.	Water Efficiency	SFY 2015	\$ 1,500,000
30	90	DW218-0002	#218 DWS Honokohau	42	Maui DWS	<b>Honokohau Water Source Replacement:</b> Installation of a new well or treatment facility to replace source for the Honokohau system.		SFY 2016	\$ 1,500,000
31	90	DW247-0008	#247 DWS Lower Kula	3,246	Maui DWS	<b>Omaopio 2.1 MG Tank Replacement:</b> Construct a new 2.1 MG concrete water tank to replace the existing Omaopio Tank		Nov-14	\$ 4,000,000
32	90	DW215-0009	#215 DWS Upper Kula	6,918	Maui DWS	<b>Phase 6 Booster Pump Upgrades:</b> Replace booster pumps and related equipment at 3 booster pump stations; Kula Kai, Middle Kimo, and Upper Kimo water tanks. <i>(Binding commitment executed)</i>	Energy Efficiency	Aug-14	\$ 4,000,000
33	90	DW215-0010	#215 DWS Upper Kula	6,918	Maui DWS	<b>Kula 200 #1 Tank Replacement:</b> Replace 25K Gal Steel Tank with equal or larger size glass lined tank <i>(Binding commitment executed)</i>		Aug-14	\$ 1,200,000

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34	90	MDWS-0001	MDWS	140,000	Maui DWS	<b>Source Generator Installation - 4 sites:</b> Replace source generators at 4 well-sites.		Mar-15	\$ 1,200,000
35	90	DW101-0002	#101 DWS Hilo	37,430	Hawaii DWS	<b>Puainako Street Waterline Replacement:</b> Replace approximately 7,700 LF of 8" (diam) cast iron waterline which is deteriorating and prone to leaks and breaks	Water Efficiency	SFY 2016	\$ 2,700,000
36	90	DW400-0004	#400 DOW Lihue-Kapaa	27,055	Kauai DOW	<b>PLH-03; Kahili Horizontal Directional Drilled Well:</b> This project is for the purpose of reducing power costs by developing water that doesn't need electricity to produce potable water. The scope of the project is to drill horizontally into the Ridge on the south side of Iole Stream to develop dike water. This water would come out at the 1100 to 1200 foot elevation with a pressure of up to 1200psi. This pressure would be monitored so the supply is taken at a sustainable rate of an expected 2-5 million gallons per day rate, which would replace existing sources. Eliminating existing source has the potential of reducing the power cost for DOW by 20-40% or about \$0.6-\$1.2 million per year. At this location in the forest reserve there is high expectation of the water having no chemical contaminants or VOCs. Length of the hole would be about 9000 feet and would be 18 inch in diameter if the maximum amount of water is developed. A transmission line to bring the water to the Lihue system would need to travel about 6 miles. Cost would depend on flow rate. <i>(Binding commitment executed)</i>	Energy Efficiency (Categorical)	Jan-17	\$ 60,000,000
37	90	DW400-0003	#400 DOW Lihue-Kapaa	27,055	Kauai DOW	<b>PLH-26, Isenberg Camp Main Replacements:</b> Replace approximately 12,500 feet of pipeline along Fujii, Inouye, Hiraoka, Jerves, Nakamura, Kanakolu, Eha, Eono, Elima, Ekolu Streets, Maalo, Noi, Laukini Roads, Lihue.	Water Efficiency	Jan-18	\$ 7,000,000
38	90	DW400-0006	#400 DOW Lihue-Kapaa	27,055	Kauai DOW	<b>WK-33; Kahuna Road 12" Main Replacement, Kapaa Homesteads:</b> Replace approximately 9500 feet of 12" pipeline along Kahuna Road for the Kapaa Homesteads community.	Water Efficiency	Jan-18	\$ 6,000,000
39	90	DW400-0007	#400 DOW Lihue-Kapaa	27,055	Kauai DOW	<b>WK-11; Upper Wailua Houselots Booster Pump Station and Pipeline Replacements:</b> Construct a 200 gpm booster pump station and the replacement of approximately 3500 feet of pipeline for the upper Wailua Houselots community.	Water Efficiency	Jan-18	\$ 2,500,000
40	90	DW400-0009	#400 DOW Lihue-Kapaa	27,055	Kauai DOW	<b>WK-01; Rehabilitate Moelepe Tunnel and Access Road:</b> The Department is currently using Moelepe Tunnel as a source of high level groundwater. The tunnel access road, chlorination station, source tunnel entrance, etc. are in need of rehabilitation. This project helps ensure the source meets all of the requirements of the Safe Drinking Water Act. The Department saves approximately 400,000 kWh/year in pumping costs by taking advantage of this high level water source.		Nov-14	\$ 900,000
41	90	DW213-0016	#213 DWS Makawao	27,642	Maui DWS	<b>Lower Baldwin Avenue Waterline upsizing:</b> Design to replace approximately 6000 feet of 8" waterline with 12" for fire protection.		Oct-15	\$ 4,000,000
42	90	DW213-0010	#213 DWS Makawao	68,054	Maui DWS	<b>Wind Turbine - Kamole Water Treatment Plant:</b> Construct a wind turbine system to generate electricity. The system will produce electrical power for the water treatment plant and the high lift pumps. The system will reduce the department's dependence on Maui Electric Company and fossil fuels.	Energy Efficiency (Categorical)	Jul-12	\$ 2,000,000
43	90	DW213-0011	#213 DWS Makawao	68,054	Maui DWS	<b>Photovoltaic System - Kamole Water Treatment Plant:</b> Construct a photovoltaic system at the Kamole Water Treatment Plant. The system will provide electrical power to the treatment plant. This will reduce the department's dependence on Maui Electric Company and fossil fuels.	Energy Efficiency (Categorical)	SFY 2013	\$ 200,000
44	90	DW131-0001	#131 DWS North Kona	27,942	Hawaii DWS	<b>Holua Road Waterline Replacement:</b> Replace approximately 1,300 LF of 4" galvanized waterline which is deteriorating and prone to leaks and breaks.	Water Efficiency	SFY 2015	\$ 390,000
45	90	DW212-0017	#212 DWS Wailuku	68,054	Maui DWS	<b>Waiehu Heights Well A Refurbishment/Replacement:</b> Refurbish or replace existing Waiehu Well A due to high chlorides and low pump capacity		Aug-15	\$ 5,200,000
46	90	DW212-0018	#212 DWS Wailuku	68,054	Maui DWS	<b>Wailuku Heights Tank 30 Booster Replacement:</b> Replace booster pumps and motors, and related piping. Replace MCC and related electrical controls.		Feb-15	\$ 1,200,000

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47	90	DW434-0009	#434 DOW Kalaheo	13,581	Kauai DOW	<b>K-05A: Kukuioolono 866/ 0.5-MG Tank:</b> Project involves demolition of an existing tank and erection of a new 0.5-MG tank. The existing 0.2-MG concrete tank has been taken out of service due to condition (>70 yrs) and warranted repairs. Water storage needs are currently met with management of other system tanks; however, the proposed 0.5-MG tank will not only replenish the previous storage volume, but also meet the future demands of the service area. The project also involves erecting the new tank next to another existing tank, as to consolidate operations and improve efficiency.		Oct-15	\$ 3,500,000
48	90	DW434-0004	#434 DOW Kalaheo	13,581	Kauai DOW	<b>LO-08, LO-10; Lawai Water Main Replacements:</b> Replace approximately 8100 feet of 6- and 8-in water main along Koloa Rd and other streets.	Water Efficiency	Oct-14	\$ 1,400,000
49	90	DW434-0010	#434 DOW Kalaheo	13,581	Kauai DOW	<b>KP-09: Koloa Wells 16A &amp; 16B Well, Site and Building Enhancements:</b> Project involves replacement/ enhancement of critical equipment and structures at Koloa Wells 16A & 16B. The existing control building at 16B will be demolished and a new building erected. Both 16A & 16B control buildings will receive new motor control centers (MCC), disinfection systems and related operational equipment. Well 16B will receive new pump and modified discharge piping. The project tasks will remove dilapidated, high-maintenance equipment and replaced with new, higher-efficiency counterparts.	Energy Efficiency	May-15	\$ 1,400,000
50	90	DW434-0008	#434 DOW Kalaheo	15,108	Kauai DOW	<b>K-18; 8-Inch Water Main Replacement Along Halewili Road:</b> The Department currently has a water line easement through a residential lot. This water line is in very poor condition and recently required a major repair. It is the intent of this project to eliminate this line through the residential property, provide additional/ adequate flow to the service area, and relocate the water line to the public ROW. Replace ~1650 LF of pipe.	Water Efficiency	Aug-14	\$ 800,000
51	90	DW434-0007	#434 DOW Kalaheo	13,581	Kauai DOW	<b>LO-19; Omao Tank Micro-Turbine:</b> The Department currently drops approximately 1 MGD of potable water from the Lawai-Omao-Piwai 677' Water System down to the 366' Koloa Water System. A bank of control valves at the Omao Tank site are used to dissipate and effecuate the energy loss. This project consists of replacing one of the existing control valves with a new parallel hydro turbine, appurtenant controls and installation of electrical transmission lines. A hydro turbine at the Omao Tank/Reservoir has the potential to generate approximately 47 kW of power and total annual power generation of approximately \$0.02/kWh. This equates to revenue in the range of \$40,000 per year by selling power to the Kauai Island Cooperative, the island electric utility.	Energy Efficiency (Categorical)	Jan-15	\$ 650,000
52	90	DW434-0011	#434 DOW Kalaheo	13,581	Kauai DOW	<b>Lawai Well No. 22 Enhancements:</b> Project involves replacement/ enhancement of the MCC. The existing, aging MCC will be replaced with newer, higher-efficiency equipment to reduce electrical expenses and improve operational flexibility.	Energy Efficiency	May-15	\$ 200,000
53	90	DW214-0016	#214 DWS Lahaina	18,598	Maui DWS	<b>Honokahua Well C Exploratory Well Construction:</b> Construct an Exploratory well at Honokahua to provide additional source for the Lahaina system		Jun-15	\$ 2,000,000
54	90	DW214-0015	#214 DWS Lahaina	18,598	Maui DWS	<b>Lahainaluna Road Booster-Phase 1:</b> Construction of a booster pumping system to provide back-up for the Lahaina WTF		Feb-15	\$ 1,700,000
55	90	DW214-0012	#214 DWS Lahaina	17,967	Maui DWS	<b>Hydro Electric Facility at the Honokowai Tank Site:</b> Construction of a hydroelectric facility. Electric power will be generated from the high pressure waterline that fills the existing 2 MG Honokowai.	Energy Efficiency (Categorical)	SFY 2016	\$ 750,000
56	90	DW214-0013	#214 DWS Lahaina	17,967	Maui DWS	<b>Mahinahina Water Treatment Facility-Raw Water Algae Mitigation:</b> Install a cover over the raw water reservoir or other method of eliminating algae growth at the facility raw water storage pond		Nov-13	\$ 600,000
57	90	DW331-0060	#331 BWS Honolulu-Windward-Pearl Harbor	665,735	Hon BWS	<b>Ala Moana Boulevard 16-Inch Main:</b> Install 16-inch main and appurtenances along Ala Moana Blvd from Ward Ave to Atkinson Dr - approx. 6,200 LF.	Water Efficiency	SFY 2018	\$ 6,820,000
58	90	DW331-0065	#331 BWS Honolulu-Windward-Pearl Harbor	665,735	Hon BWS	<b>Nimitz Highway 16-Inch Main :</b> Install 16-inch mains and appurtenances along Nimitz Highway from Waiakamilo Road to Sumner Street and along Waiakamilo Road from Nimitz Highway to Hart Street - approx. 6,200 lin. ft.	Water Efficiency	SFY 2017	\$ 6,100,000

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59	90	DW331-0066	#331 BWS Honolulu-Windward-Pearl Harbor	665,735	Hon BWS	<b>Palolo Water System Improvements, Part III</b> : Install 12-inch mains and appurtenances along Palolo Avenue from Kiwila Street to Palolo Place and along 10th Avenue from Palolo Place to Ahe Street - approx. 5,220 LF. Install 8-inch mains and appurtenances along Kaululoa Place from Palolo Avenue to end, along Palolo Avenue from Kauhana Street to Palolo Place, along 10th Avenue from Palolo Place to Ahe street, and along Makanui place from 10th Avenue to end - approx. 4,520 LF. Install 4-inch mains and appurtenances along Holomua Place from Makanui Place to end - approx. 365 LF.	Water Efficiency	SFY 2018	\$ 1,859,000
60	90	DW331-0069	#331 BWS Honolulu-Windward-Pearl Harbor	665,735	Hon BWS	<b>Palolo Water System Improvements, Part IV</b> : Install 16-inch mains and appurtenances along Pakui Street from 10th Avenue to Wilhelmina Rise 405 Reservoir, along 10th Avenue from Maluhia Avenue to Pakui Street, along Pukele Avenue from 7th Avenue to Maluhia Avenue, along 7th Avenue from Kaau Street to Pukele Avenue, along Kaau Street from Palolo Avenue to 7th Avenue and along Palolo Avenue from Kaau Street to Waialae Avenue - approx. 4,150 lin. ft. Install 12-inch mains and appurtenances along Kalua Road from Mahana Street to 10th Avenue - approx. 985 lin. ft. Install 8-inch mains and appurtenances along 9th Avenue from Paalea Street to Kiwili Street - approx. 2,410 lin. ft. Replacement of pipeline needed to reduce water main breaks and leaks.	Water Efficiency	SFY 2018	\$ 4,700,000
61	90	DW331-0061	#331 BWS Honolulu-Windward-Pearl Harbor	665,735	Hon BWS	<b>Kalakaua Avenue Water System Improvements, Phase III</b> : Install 16-inch mains and appurtenances along Kalakaua Avenue from Beretania Street to Kapiolani Boulevard - Approx. 3,200 LF.	Water Efficiency	SFY 2018	\$ 3,600,000
62	90	DW331-0064	#331 BWS Honolulu-Windward-Pearl Harbor	665,735	Hon BWS	<b>Manoa Estates Water System Improvements</b> : Install 12-inch main and appurtenances along Waaloa Way from Waaloa Place to Manoa Chlorinator - approx. 1,630 LF. Install 8-inch mains and appurtenances along Manoa Estates Road from Pinoa Street to Waaloa Way - approx. 1,290 LF.	Water Efficiency	SFY 2016	\$ 1,310,000
63	90	DW331-0067	#331 BWS Honolulu-Windward-Pearl Harbor	665,735	Hon BWS	<b>Woodlawn Water System Improvements, Part II</b> : Install 8-inch mains and appurtenances along Woodlawn Drive from Woodlawn Terrace Place to Alani Drive and along Seaview Rise from Woodlawn Drive to Paty Drive - approx. 2,630 LF. *** Part of HBWS-0001 ***	Water Efficiency	Aug-14	\$ 1,200,000
64	90	DW331-0068	#331 BWS Honolulu-Windward-Pearl Harbor	665,735	Hon BWS	<b>Energy Savings Performance Contracting (ESPC) - BWS Facilities</b> : Implement an ESPC project on BWS facilities with a goal of reducing energy demand by 20%	Energy Efficiency (Categorical)	TBD	\$ 800,000
65	90	DW400-0011	KDOW	70,000	Kauai DOW	<b>PLH-39; Lihue Baseyard Improvements for the Department of Water</b> : Design and construct a new DOW administration building in an environmentally conscious way which includes meeting energy and safe drinking water guidelines such as solar water heater, photovoltaic systems, rain catchment, underground retention systems, and other green aspects. <i>(Binding commitment executed)</i>	Energy Efficiency (Categorical)	Sep-14	\$ 8,800,000
66	82.5	HBWS-0001	HBWS		Hon BWS	<b>Honolulu BWS Water System Improvements 1</b> : This project combines HBWS projects: Ewa Beach Water System Improvements, Part II (DW335-0007); Wahiawa 1074 Reservoir Repair (DW333-0004); Wilhelmina Rise 811 Reservoir Replacement (DW331-0058); and Woodlawn Water System Improvements, Phase II (DW331-0067) <i>(Binding commitment executed)</i>		Nov-14	\$ 7,240,000
67	80	DW108-0001	#108 DWS Waiohinu-Naalehu	3,033	Hawaii DWS	<b>Waiohinu Well (Replace Mountain House Tunnel &amp; Hao Spring)</b> : Replacement source for Mountain House Tunnel & Hao Springs, which are not reliable during drought.		SFY 2016	\$ 2,000,000
68	80	DW112-0001	#112 DWS Olaa-Mountain View	664	Hawaii DWS	<b>Olaa #2 - 0.5 MG Reservoir Replacement</b> : Design and construct a new 0.5 MG concrete reservoir to replace the existing 0.2 MG steel Olaa #2 reservoir which is severely deteriorated and potentially poses a health and safety risk.		SFY 2015	\$ 3,000,000
69	80	DW102-0001	#102 Laupahoehoe-Kapehu	1,166	Hawaii DWS	<b>Laupahoehoe 0.5 MG Reservoir</b> : Construct a new water 0.5 MG concrete reservoir to serve the Laupahoehoe water system that currently does not have adequate storage to meet system demand.		SFY 2015	\$ 2,500,000
70	80	DW403-0002	#403 DOW Hanalei	988	Kauai DOW	<b>H-08, (West) Hanalei Tank, Well #2 and Connecting Pipeline</b> : Construct a 0.5 MG storage tank and drilling, testing and development of a 300 gpm potable water well with approximately 10,000 feet of pipeline and access road.		Jan-15	\$ 10,000,000

**Appendix A**  
**DWSRF Priority List of Projects for SFY 2015**

No.	Points	DWSRF Project No.	Public Water System	Population	Owner	Project (Name and Description)	Green Project Reserve Type	Expected Construction Start Date	Estimated Construction Cost
71	80	DW415-0005	#415 DOW Haena-Wainiha	1,010	Kauai DOW	<b>HW-12, Wainiha Well #4:</b> Drill, test, and develop Wainiha Well #4 (100 gpm).		Oct-14	\$ 3,000,000
72	80	DW407-0002	#407 DOW Kilauea	2,803	Kauai DOW	<b>WKK-15: Kilauea-Pu'u Pane 466/ 1.0-MG Tank:</b> Project involves the demolition of the existing 0.1-MG tank and erection of a new 1.0-MG tank. The storage needs of the Kilauea-Waipake-Kalihiwai water system, 466 Pressure Zone, is deficient for both current and future demands (WaterPlan 2020). The installation of the new storage tank and related system controls will address storage needs and improve overall water system efficiency and safety.		Sep-14	\$ 2,500,000
73	80	DW415-0004	#415 DOW Haena-Wainiha	1,010	Kauai DOW	<b>HW-11, Haena 0.2 MG 144' Tank and Connecting Pipeline:</b> Construct a two hundred thousand gallon storage tank and approximately 5,000 feet of connecting pipeline and access road at Haena.		Jun-16	\$ 2,000,000
74	80	DW415-0003	#415 DOW Haena-Wainiha	1,010	Kauai DOW	<b>HW-13; Wainiha 0.01 MG 217' Tank and Connecting Pipeline:</b> Construct a 10,000 gallon storage tank and approximately 5000 feet of connecting pipeline at Wainiha.		Jun-16	\$ 1,500,000
75	80	DW403-0003	#403 DOW Hanalei	988	Kauai DOW	<b>H-07, Replacement of Hanalei (Princeville) Tank:</b> Demolish and construct a 150,000 gallon storage tank at Princeville, Hanalei.		Jun-16	\$ 1,500,000
76	80	DW406-0008	#406 DOW Kekaha-Waimea	5,392	Kauai DOW	<b>KW-28: Kekaha-AMFAC Shaft 11 Renovations:</b> Project involves renovating AMFAC Shaft 11 as an additional water source for the Kekaha-Waimea water system. The DOW's WaterPlan 2020 identified the need for an additional water supply in this service area, therefore implementing this project will address this issue. Project tasks include deployment of pump, control building, electrical/mechanical systems, disinfection and construction of site/access improvements.		Jun-15	\$ 4,000,000
77	80	DW366-0001	#366 BWS Waialeale-Sunset Beach	4,219	Hon BWS	<b>Kamehameha Highway-Sunset Beach Water System Improvements: 16-inch Main, Pupukea Road to Waialeale, Part I:</b> Install 16" mains & appurtenances along Kamehameha Highway from F.H. C-6 (300' north of Kaunala Street) to vicinity 600 feet south of Paumalu Stream (Sunset Beach 206 Reservoir Access Road) - approx. 5,300 lin. ft.		SFY 2014	\$ 3,500,000
78	80	DW404-0006	#404 DOW Hanapepe-Eleele	4,457	Kauai DOW	<b>Hanapepe-Ele'ele Water System Interconnection:</b> Project involves installing 3000 LF of 12-inch water main between Hanapepe and Ele'Ele distribution systems. Water main would be located along Kaunualii Highway between Hanapepe Road and Waialo Road. The project would provide water supply, transmission and storage sharing enhancements between the two service areas. The results could lower pumping expenses, improve water quality (residence time) and provide redundancy/safety.		Jan-16	\$ 3,500,000
79	80	DW404-0004	#404 DOW Hanapepe - Eleele	4,457	Kauai DOW	<b>HE-03a, Hanapepe (Town) Well #1 Repair and Renovations:</b> Replace submersible motor and pump assembly, replace control building, and motor control center; improvements to site drainage and repair access road.		Apr-15	\$ 350,000
80	80	DW333-0002	#333 BWS Wahiawa	24,547	Hon BWS	<b>Wahiawa Water System Improvements, Part I:</b> Install 12-inch mains and appurtenances along California Avenue from Maalo Street to Mahele Street - approx. 2,100 lin. ft. Install 8-inch mains and appurtenances along California Avenue from Maalo Street to Auhili Place, Kaalalo Place, Lei Awapuhi Place, Lei Aloalo Place, Longley Place, Kukui Street, Olive Street from Kamehameha Highway to Cypress Avenue, Ohai Street, Ohai Place, Milikana Place, Koele Way, Kilani Avenue from Lehua Street to Holulu Place, Kamehameha Highway from California Avenue to Avocado Street, and along Nihiwai Place and Hiwi Place - approx. 15,950 lin. ft.		SFY 2017	\$ 7,060,000
81	80	DW333-0004	#333 BWS Wahiawa	24,547	Hon BWS	<b>Wahiawa 1075 Reservoir Repair:</b> Replace reservoir wall pre-stressing system, replace failing reservoir roof, install fall protection and safety line anchor points and various site improvements, including asbestos and lead-containing paint abatement. *** Part of HBWS-0001 ***		Aug-14	\$ 1,700,000

**Appendix A**  
**DWSRF Priority List of Projects for SFY 2015**

No.	Points	DWSRF Project No.	Public Water System	Population	Owner	Project (Name and Description)	Green Project Reserve Type	Expected Construction Start Date	Estimated Construction Cost
82	80	DW333-0003	#333 BWS Wahiawa	24,547	Hon BWS	<b>Wahiawa Water System Improvements, Part III:</b> Install 8-inch mains and appurtenances along Uluwehi Street from California Avenue to Walea Street, along Uluwehi Place from Walea Street to end, along Hoolulu Road from Uluwehi Street to Hoomaha Street, along Walea Street from Uluwehi Street to Walea Uka Place, along Hoomaha Street from California Avenue to Walea Street and along Walea Uka Place from Walea Street to end - approx. 4,720 lin. ft. Install 4-inch mains and appurtenances along the side street from Hoomaha Street to end - approx. 135 lin. ft.	Water Efficiency	Jan-17	\$ 1,870,000
83	80	DW332-0005	#332 BWS Waialua	13,067	Hon BWS	<b>Kamehameha Highway - Haleiwa Water System Improvements, Part I &amp; II:</b> Part I: Install 8-inch mains and appurtenances along Kamehameha Highway from 625 feet northeast of FH C00049 to 10 feet northeast of FH C00041 and along Pohaku Loa Way from Kamehameha Highway to Kamehameha Highway - approx. 6,600 lin. ft. Install 8- inch and 4-inch mains and appurtenances along a private road (TMK: 6-1-012:040) from Kamehameha Highway to end of road across of FH C00501, along Punalau Place from Kamehameha Highway to end, along Ikuwai Place from Kamehameha Highway to end, along Ikuwai Way from Kamehameha Highway to end, and along various side streets - approx. 2,700 lin. ft. Install 2-inch mains along TMK 6-1-011:010, TMK 6-1-011:001, TMK 6-1-011:002, and TMK 6-1-011:015 - approx. 1,150 lin. ft. Part II: Install 12-inch main along Kamehameha Highway from Papailoa Road to approximately 300 feet northwest of Kawailoa Drive - approx. 2,400 lin. ft. Install 8-inch main along Kamehameha Highway from 16-inch main interconnection near FH C00059 to approximately 550 feet northeast of FH C00056 - approx. 4,900 lin. ft.		SFY 2016	\$ 11,900,000
84	80	DW400-0010	#400 DOW Lihue-Kapaa	27,055	Kauai DOW	<b>PLH-36; Expansion to Grove Farm's Surface Water Treatment Plant at Hanamaulu:</b> Expand the Grove Farm surface water treatment plant by three million gallons per day.		Jan-18	\$ 10,000,000
85	80	DW400-0008	#400 DOW Lihue-Kapaa	27,055	Kauai DOW	<b>WK-10 &amp; WK-21; (Upper) Wailua Homesteads 1.0 MG 538' Tank, Well and Connecting Pipeline:</b> Construct a one million gallon storage tank and drilling, testing and development of a 500 gpm potable water well with approximately 5000 feet of pipeline and access road for the upper Wailua Homesteads community.		Jan-18	\$ 9,500,000
86	80	DW400-0005	#400 DOW Lihue-Kapaa	27,055	Kauai DOW	<b>PLH-38; Lihue 393' Tank and Connecting Pipeline:</b> Construct a one million gallon storage tank with approximately 500 feet of pipeline and access road.		Jan-18	\$ 7,000,000
87	80	DW400-0012	#400 DOW Lihue-Kapaa	27,055	Kauai DOW	<b>PLH-01A: Grove Farms Tanks No. 1 &amp; 2 Replacement:</b> Project involves demolition of two existing water tanks and erection of a new 0.5-MG tank. The existing tanks (2 @ 0.1-MG) are constructed of concrete masonry units (CMU) and wood/metal roof, and is approximately >50 years old. Due to the tank condition, and to improve site access in conjunction with adjoining private development, a single 0.5-MG conc tank will be constructed.		SFY 2015	\$ 2,000,000
88	80	DW434-0002	#434 DOW Kalaheo	13,581	Kauai DOW	<b>K-01; Kalaheo 1111' &amp; 2222' Water System Improvements:</b> Planned improvements include replacing two existing water tanks, and constructing a new production well, new transmission main, booster pump upgrade, relocation of existing pressure reducing valve stations, and modifying a booster pump station affected by the upgrades. These improvements are needed to adequately serve the current and future Kalāheo-Lāwa'i-Ōma'o water service area. Two existing tanks, Nursery and Clearwell, will each be replaced with a new 0.5-MG water tank. The Nursery Tank replacement will be located on a nearby property acquired from the Yamada family and will be identified as the Yamada Tank. The new Clearwell Tank replacement will be located near the existing Clearwell. Along with the new tank, a production well and booster pump station will be constructed on the Yamada site. At the existing 908 Tank site, modifications will be made to the existing booster pump station and new transmission main will be constructed along Po'ohiwi Road and Pu'uwai Road to the Yamada Tank site. There are also planned improvements for extending the transmission main in Kikala Road. Modifications to existing and proposed pressure reducing valve stations are also planned within Pu'uwai Road and Kikala Road.		Apr-15	\$ 15,000,000
89	80	DW434-0005	#434 DOW Kalaheo	13,581	Kauai DOW	<b>KP-05, Poipu 1.0 MG 245' Tank and Connecting Pipeline:</b> Construct a one million gallon storage tank at Poipu.		Sep-15	\$ 4,000,000

**Appendix A**  
**DWSRF Priority List of Projects for SFY 2015**

No.	Points	DWSRF Project No.	Public Water System	Population	Owner	Project (Name and Description)	Green Project Reserve Type	Expected Construction Start Date	Estimated Construction Cost
90	80	DW335-0010	#335 BWS Waipahu-Ewa-Waianae	175,326	Hon BWS	<b>Puhawai Road, Kuwale Road, Puuhulu Road Water System Improvements:</b> Install 8-inch mains and appurtenances along Puhawai Road from Puuhulu Road to Paheehoe Road, along Wikolia Place from Puhawai Road to end, along Puuhulu Road from Puhawai Road to Kuwale Road, along Kuwale Road from Puuhulu Road to Paheehoe Road, along Haama Place from Puuhulu Road to end, along Puululu Place from Puuhulu Road to end, and along the side street from Kuwale Road to end – approx. 10,780 lin. ft.		SFY 2016	\$ 4,200,000
91	80	DW335-0009	#335 BWS Waipahu-Ewa-Waianae	175,326	Hon BWS	<b>Kahuailani Street Water System Improvements:</b> Install 12-inch mains and appurtenances along Mokuola Street from Waipahu Street to 70 feet beyond Nalii Street - approx. 500 lin. ft. Install 8-inch mains and appurtenances along Kahuailani Street from Hikimoe Street to end, along Puamano Place from Waipahu Street to end, along Kahiki Place from Puamano Place to end and along Hikimoe Street from Waipahu Depot Street to FH L4002 – approx. 4,020 lin. ft. Install 4-inch mains and appurtenances along the side street from Hikimoe Street to end - approx. 115 lin. ft.		SFY 2017	\$ 1,810,000
92	80	DW335-0007	#335 BWS Waipahu-Ewa-Waianae	175,326	Hon BWS	<b>Ewa Beach Water System Improvements, Part II:</b> Install 8-inch mains and appurtenances along Koalipehu Street from Paaloha Street to Aikanaka Road, along Aikanaka Road from Paaloha Street to Koalipehu Street, along Ihipehu Street Aikanaka Road to Pohakupuna Road and along Peone Place from Pohakupuna Road to end- approx. 2,700 lin. ft. Install 4-inch mains and appurtenances along the two side streets on Ihipehu Street and along the side street on Koalipehu Street- approx. 235 lin. ft. *** Part of HBWS-0001 ***		Nov-14	\$ 1,040,000
93	80	DW331-0022	#331 BWS Honolulu-Windward-Pearl Harbor	665,735	Hon BWS	<b>Waialae 180 3.0 MG Reservoir Replacement:</b> Demolish existing 1.0 MG reservoir and construct 3.0 MG reservoir, influent- effluent main, retaining wall, rock slide barricade, access road improvements, landscaping, irrigation system and appurtenances at existing Waialae 180 Reservoir site (TMK: 3-5-020:011)		TBD	\$ 9,000,000
94	80	DW331-0073	#331 BWS Honolulu-Windward-Pearl Harbor	665,735	Hon BWS	<b>Kalawahine 180 2.0 MG Reservoir:</b> Install 2.0 MG reservoir and appurtenances (TMK: 2-3-043:082) and 23-inch main - approx. 6,000 lin. ft.		SFY 2016	\$ 8,000,000
95	80	DW331-0044	#331 BWS Honolulu-Windward-Pearl Harbor	665,735	Hon BWS	<b>Anoi Road Water System Improvements:</b> Install 8-inch main and appurtenances along Anoi Road from end to end; along Keaahala Road from Kamehameha Highway to Keaahala Place; along Kamehameha Highway from Kahuhipa Street to Keole Street and along Luana Place from Paleka Road to end - approx. 5,850 lin. ft.		SFY 2015	\$ 6,560,000
96	80	DW331-0047	#331 BWS Honolulu-Windward-Pearl Harbor	665,735	Hon BWS	<b>Kalihi Water System Improvements, Part III:</b> Install 8-inch and 4-inch mains and appurtenances along Bannister Place from Bannister Street to dead end. Install 8-inch mains and appurtenances along Bannister Street from Laumaka Street to North King Street; along Gulick Avenue from Wilcox Lane to North King Street; along Kopke Street from Wilcox Lane to North King Street; along Factory Street from Stanley Street to North King Street; along Puuhale Road from Dillingham Boulevard to North King Street; along Wilcox Lane from Bannister Street to Puuhale Road; along Stanley Street from Bannister Street to Puuhale Road; along Waterhouse Street from Bannister Street to Puuhale Road; along Mokauea Street from Democrat Street to Kananui Street; and along Industrial Road from Waterhouse Street to Puuhale Road - approx. 9,650 lin. ft. <i>(Binding commitment executed)</i>		Sep-14	\$ 5,310,000
97	80	DW331-0071	#331 BWS Honolulu-Windward-Pearl Harbor	665,735	Hon BWS	<b>Wilhelmina Rise Water System Improvements, Part IV:</b> Install 8-inch mains and appurtenances along Sierra Drive from Wilhelmina Rise to 125 feet east of FH M01653; along Nihipali Place from Sierra Drive to end; along Hilo Place, and Lilinoe Place from Wilhelmina Rise to end; along Lanihale Place from Sierra Drive to end; along Mariposa Drive from Sierra Drive to Monterey Drive; along Paula Drive from Mariposa Drive to FH M02338; along Iwi Way from Paula Drive to end of existing water main; along Niele Place from Iwi Way to end; along Nioi Place from Niele Place to end; and along Pakahi place from Paula Drive to end - approx. 11,340 lin. ft. Install 4-inch mains and appurtenances along Palua Place from Paula Drive to end - approx. 170 lin. ft.	Water Efficiency	Jan-15	\$ 5,200,000

**Appendix A**  
**DWSRF Priority List of Projects for SFY 2015**

No.	Points	DWSRF Project No.	Public Water System	Population	Owner	Project (Name and Description)	Green Project Reserve Type	Expected Construction Start Date	Estimated Construction Cost
98	80	DW331-0056	#331 BWS Honolulu-Windward-Pearl Harbor	665,735	Hon BWS	<b>Pensacola Street Water System Improvements:</b> Install 12-inch main and appurtenances along Pensacola Street from Kapiolani Boulevard to Young Street - approx. 2,550 lin. ft. Install 8-inch main and appurtenances along Pensacola Street from Young Street to existing 8-inch main (TMK 2-4-033:028) - approx. 3,540 lin. ft. Install 8-inch and 4-inch mains and appurtenances along Piikoi Street from Pensacola Street to Lewalani Drive - approx. 430 lin. ft.		SFY 2015	\$ 5,160,000
99	80	DW331-0048	#331 BWS Honolulu-Windward-Pearl Harbor	665,735	Hon BWS	<b>Kapahulu Water System Improvements, Part I:</b> Install 8-inch mains and appurtenances along Paliuli Street, Mokihana Street, and Olu Street, along Kaimuki Avenue from 4th Avenue to Kapahulu Avenue; along Lincoln Avenue from 4th Avenue to Kapahulu Avenue; along Pahoa Avenue from 4th Avenue to 3rd Avenue; along 3rd Avenue from Kaimuki Avenue to H-1 and from H-1 to Waialae Avenue; along Belser Street from Kaimuki Avenue to H-1 and from H-1 to Harding Avenue; along 2nd Avenue from Lincoln Avenue to FH M-1349 and from H-1 to Waialae Avenue; and along Aloalo Place from Harding Avenue to end - approx. 8,400 lin. ft.		SFY 2015	\$ 3,230,000
100	80	DW331-0043	#331 BWS Honolulu-Windward-Pearl Harbor	665,735	Hon BWS	<b>Diamond Head Water System Improvements, Part II:</b> Install 12-inch mains and appurtenances along 22nd Avenue from Kilauea Avenue to Diamond Head Road, along Diamond Head Road from 22nd Avenue to Kahala Avenue, and along Kulamanu Street from Kahala Avenue to Kulamanu Place - approx. 5,235 lin. ft. Install 8-inch mains and appurtenances along Kulamanu Place from Kulamanu Street to end, along Malapua Place from 22nd Avenue to end, along Ulupua Place from 22nd Avenue to end, along Huanui Street from 22nd Avenue to Huanui Place, along Kaalawai Place from Diamond Head Road to easement, and along Kuine Place from Kulamanu Street to end - approx. 2,270 lin. ft.		SFY 2015	\$ 3,180,000
101	80	DW331-0030	#331 BWS Honolulu-Windward-Pearl Harbor	665,735	Hon BWS	<b>Kaimuki Water System Improvements, Part I:</b> Install 8-inch mains and appurtenances along Maunaloa Avenue from 16th Avenue to 20th Avenue; along Kaimuki Avenue from 16th Avenue to 21st Avenue; along Pahoa Avenue from 18th Avenue to 150 feet beyond FH M-3591; along 17th Avenue from Kilauea Avenue to Kaimuki Avenue and along 18th Avenue from Kaimuki Avenue to Pahoa Avenue; along 19th and 20th Avenues from Maunaloa Avenue to Pahoa Avenue - approx. 9,850 lin. ft.		SFY 2016	\$ 2,930,000
102	80	DW331-0055	#331 BWS Honolulu-Windward-Pearl Harbor	665,735	Hon BWS	<b>Pacific Heights Water System Improvements, Part II:</b> Install 12-inch main and appurtenances along Pacific Heights Road from Haili Road to Ahekololo Street, along Ahekololo Street from Pacific Heights Road to Booth Road, along Booth Road from Ahekololo Street to Kekuanoni Street - approx. 4,800 lin. ft. Install 8-inch main and appurtenances along Laniloa Road from Pacific Heights Road to end, along Pacific Heights Place from Pacific Heights Road to end, along Hiolani Street from Booth Road to end and along various side streets - approx. 2,055 lin. ft.		SFY 2017	\$ 2,540,000
103	80	DW331-0058	#331 BWS Honolulu-Windward-Pearl Harbor	665,735	Hon BWS	<b>Wilhelmina Rise 811 Reservoir Replacement:</b> Replace failing reservoir. *** <b>Part of HBWS-0001</b> ***		Nov-14	\$ 2,500,000
104	80	DW331-0070	#331 BWS Honolulu-Windward-Pearl Harbor	665,735	Hon BWS	<b>Water Main Replacement at Various Streets:</b> Install 8-inch mains and appurtenances along Miller Street from Magellan Street to Prospect Street, along Frear Street from Magellan Street to end, along 13th and 14th Avenue from Waialae Avenue to Mahina Avenue, along Iholena Street from Lolena Street to end, along Iholena Place from Iholena Street to end, along Mikahala Way from Sierra Drive to Sierra Drive, along Komaia Place from Komaia Drive to end, along Hema Place from Hao Street to end and along Oswald Street from Saint Louis Drive to Saint Louis Drive - approx. 5,145 lin. ft.	Water Efficiency	Sep-14	\$ 2,500,000
105	80	DW331-0033	#331 BWS Honolulu-Windward-Pearl Harbor	665,735	Hon BWS	<b>Kakaako Water System Improvement:</b> Install 8-inch mains and appurtenances along Halekauwila Street from Richards Street to Keawe Street; along Keawe Street from Auahi Street to Queen Street; and along Pohukaina Street from Punchbowl Street to South Street.		TBD	\$ 2,300,000

**Appendix A**  
**DWSRF Priority List of Projects for SFY 2015**

No.	Points	DWSRF Project No.	Public Water System	Population	Owner	Project (Name and Description)	Green Project Reserve Type	Expected Construction Start Date	Estimated Construction Cost
106	80	DW331-0050	#331 BWS Honolulu-Windward-Pearl Harbor	665,735	Hon BWS	<b>Liliha Water System Improvements, Part V:</b> Install 8-inch mains and appurtenances along Liliha Street from Wylie Street to end, along Puunui Avenue from Wylie Street to Hawaii Street, along Kauai Street from Liliha Street to Puunui Avenue, along Lanai Street from Wylie Street to Liliha Street and along Hawaii Street from Liliha Street to Puunui Avenue - approx. 5,600 lin.ft.		SFY 2015	\$ 2,160,000
107	80	DW331-0054	#331 BWS Honolulu-Windward-Pearl Harbor	665,735	Hon BWS	<b>Monsarrat Avenue Water System Improvements:</b> Install 16-inch and 8-inch mains and appurtenances along Monsarrat Avenue from Paki Avenue to Campbell Avenue - approx. 3,200 lin. ft.		SFY 2016	\$ 1,670,000
108	80	DW331-0045	#331 BWS Honolulu-Windward-Pearl Harbor	665,735	Hon BWS	<b>Hui Ulili Street 12-Inch, 8-Inch and 4-Inch Mains:</b> Install 12-inch, 8-inch and 4-inch mains and appurtenances along Hui Ulili Street from Hui Kelu Street to Hui Oi Street - approx. 2,825 lin ft.		SFY 2017	\$ 1,240,000
109	80	DW331-0072	#331 BWS Honolulu-Windward-Pearl Harbor	665,735	Hon BWS	<b>Luluku Road Water System Improvements:</b> Install 12-inch and 6-inch mains and appurtenances along Luluku Road and Kamehameha Highway - approx. 1,800 lin. ft. Transfer service laterals along Apapane Street from Luluku Road to near FH W01009 - approx. 600 lin. ft.	Water Efficiency	Jan-16	\$ 1,100,000
110	80	KDOW-0002	KDOW	70,000	Kauai DOW	<b>M-02: Moloaa 50k Gal Tank:</b> Project involves the demolition of the existing 5000 gal tank and erection of a new 50,000 gal tank. The storage needs of the DOW's Moloaa water system is deficient for both current and future demands (WaterPlan 2020). The installation of the new storage tank and related system controls will address storage needs and improve overall water system efficiency and safety.		Apr-15	\$ 1,000,000
111	8	HBWS-0002	HBWS		Hon BWS	<b>Honolulu BWS Loan Refinance 1:</b> Refinance approximately \$21 million of existing bond debt for the construction of DWSRF-eligible infrastructure projects.		Oct-14	\$ 21,000,000