

**Appendix B**  
**DWSRF Priority List of Projects for SFY 2009**

No.	Pts	DWSRF Proj No.	Public Water System	Population	Owner	Project (Name and Description)	Expected Construction Start Date	Estimated Construction Cost
1	150	DW133-0001	#133 DWS Kukuihaele	455	Hawaii DWS	<b>Kukuihaele Production Well and Supporting Facilities:</b> Replacement source for Waiulili Spring, which has atrazine and indication of possible surface water influence.	Jun-07	\$ 2,671,606
2	145	DW130-0003	#130 DWS South Kohala	8,872	Hawaii DWS	<b>Waimea WTP Microfiltration - Phase IV:</b> Microfiltration plant for compliance with Enhanced Surface Water Treatment Rule and Disinfection/Disinfectants Byproducts Rule.	May-08	\$ 10,000,000
3	135	DW247-0004	#247 DWS Lower Kula	3,300	Maui DWS	<b>Piiholo Water Treatment Plant Improvements - Organic Carbon Reduction:</b> Reduce total organic carbon levels to help lower disinfection byproducts.	FY-08	\$ 6,000,000
4	130	DW105-0001	#105 DWS Honomu	621	Hawaii DWS	<b>Honomu Production Well and 0.3 MG Reservoir:</b> Replacement source for Akaka Falls to comply with the Lead and <u>Copper</u> Rule, which also has indication of possible surface water influence and construct new 0.3 MG storage reservoir to maintain adequate potable water storage for the water system.	May-08**	\$ 3,900,000
5	130	DW214-0008	#214 DWS Lahaina	16,000	Maui DWS	<b>Mahinahina Water Treatment Facility Retrofit:</b> Retrofit WTF from multimedia to membrane filtration to achieve positive barrier to enhance water quality.	FY-10	\$ 11,210,000
6	125	DW103-0001	#103 DWS Ninole	146	Hawaii DWS	<b>Ninole Well "A" (Replace Chaves Spring):</b> Replacement source for Chaves Spring, which has atrazine.	Apr-08	\$ 2,000,000
7	120	DW109-0001	#109 DWS Pahala	1,316	Hawaii DWS	<b>Pahala Well "B" (Replace Alii Tunnel):</b> Replacement source for Alii tunnel, which was determined to be a groundwater under the influence of surface water.	Feb-02 **	\$ 2,051,908
8	120	DW154-0001	#154 DWS Hakalau-Wailea	272	Hawaii DWS	<b>Hakalau Spring Improvement:</b> Improvements to spring box or installation of a filtration system for spring, which was declared a groundwater under direct influence of surface water.	Apr-08	\$ 2,370,000
9	110	DW214-0006	#214 DWS Lahaina	16,000	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.	FY-12	\$ 1,700,000
10	105	DW233-0001	#233 DWS Ualapue	979	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.	FY-12	\$ 2,000,000

**Appendix B**  
**DWSRF Priority List of Projects for SFY 2009**

No.	Pts	DWSRF Proj No.	Public Water System	Population	Owner	Project (Name and Description)	Expected Construction Start Date	Estimated Construction Cost
11	105	DW128-0001	#129 DWS North Kohala	526	Hawaii DWS	<b>Halaula Well:</b> Replacement source for Bond Tunnel to comply with the Lead and Copper Rule. Construction of potable water well.	Apr-07	\$ 2,200,000
12	105	DW413-0003	#400 DW Lihue-Kapaa	16,484	Kauai DW	<b>Akulikuli Tunnel Repairs:</b> Repairs to tunnel source, which has possible indication of surface water influence.	2009	\$ 3,500,000
13	100	DW106-0001	#106 DWS Pepeekeo	1,359	Hawaii DWS	<b>Kulaimano Production Well and Supporting Facilities:</b> Replacement source for Maukaloa Spring, which is contaminated with atrazine.	Jan-08	\$ 2,500,000
14	90	DW412-0002	#400 DW Lihue-Kapaa	1,923	Kauai DW	<b>Puhi Well No. 2 &amp; 3 CO2 Removal:</b> Installation of forced draftway aeration with the use of existing soda ash system for stabilizing the stripped water (Lead and Copper Rule).	May-08	\$ 305,000
15	80	DW234-0003	#234 DWS Kaunakakai	3,338	Maui DWS	<b>Kaunakakai-Kawela System Well 2:</b> New well to replace/supplement shallow well for water quality.	FY-12	\$ 3,500,000
16	80	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.	FY-10	\$ 1,500,000
17	80	DW404-0003	#404 DW Hanapepe - Eleele	4,507	Kauai DW	<b>Refurbish Eleele Steel Tanks:</b> Refurbish leaking and deteriorating tanks, reroof, repair interior and exterior walls and floors (2-0.4 MG tanks).	Jul-06	\$ 1,000,000
18	80	DW406-0005	#406 DW Kekaha-Waimea	3,175	Kauai DW	<b>Kaumuali'i Highway 12-inch Main Replacement Elepaio Road to Huakai Road, Job No. 05-04, KW-27, Kekaha-Waimea, Kaua'i, Hawaii:</b> Install 7,200 lineal feet of 12-inch DI waterline to replace existing 8-inch AC waterline.	Oct-08	\$ 7,200,000
19	80	DW406-0002	#406 DW Kekaha-Waimea	3,175	Kauai DW	<b>Waimea Canyon Drive Main Replacement:</b> PhI: Waimea Canyon Drive 12" main replacement and PhII: Kaumuali'i Hwy 6" main replacement.	Dec-08	\$ 4,300,000
20	80	DW406-0003	#406 DW Kekaha-Waimea	3,175	Kauai DW	<b>Kapili'iao 0.5 MG Tank:</b> Construct new 0.5 MG tank and approximately 1,500' of 12" ductile iron pipe.	Oct-08**	\$ 4,100,000
21	80	DW406-0006	#406 DW Kekaha-Waimea	3,175	Kauai DW	<b>8-inch Main Replacement for Elepaio Road:</b> Install approximately 986 lineal feet of new 8-inch ductile iron waterline to replace approximately 986 lineal feet of existing 8-inch A.C. waterline along Elepaio Road in Kekaha, Kaua'i.	Sep-08	\$ 3,300,000

**Appendix B**  
**DWSRF Priority List of Projects for SFY 2009**

No.	Pts	DWSRF Proj No.	Public Water System	Population	Owner	Project (Name and Description)	Expected Construction Start Date	Estimated Construction Cost
22	80	DW406-0004	#406 DW Kekaha-Waimea	3,175	Kauai DW	<b>Waimea Well A and Kekaha Well B Renovations, Job No. 04-06, KW-05, KW-20 at Waimea and Kekaha, Kaua'i, Hawaii:</b> Repair, replace and remove the existing facilities at Waimea Well A (State Well No. 5840-01) and Kekaha Well B (State Well No. 5943-02), including renovations to the discharge piping, buildings, roads, fencing and site improvements.	Dec-08	\$ 1,500,000
23	80	DW403-0001	#403 DW Hanalei	989	Kauai DW	<b>Rehabilitation of Maka Ridge Deep Well, Tank Pipeline and Roadway:</b> Rehabilitate Maka Ridge deep well control building, tank walls, and roof. Replace 3650-ft of 8-in pipeline & improve road.	Jun-07	\$ 2,000,000
24	80	DW415-0002	#415 DW Haena-Wainiha	1,051	Kauai DW	<b>Haena Steel Tank and Wainiha Booster Pump Renovation (HW-02 &amp; HW-03):</b> Repairs and renovations to the existing 0.1 MG steel tank and installation of a pair of 50 gpm booster pumps.	Mar-07	\$ 1,400,000
25	80	DW409-0002	#409 DW Lawai-Omao	3,391	Kauai DW	<b>Omao 677 - 0.50 MG Tank:</b> Construct new 0.50 MG tank at 677.	Dec-06	\$ 1,500,000
26	80	DW336-0001	#366 BWS Waialeale-Sunset Beach	4,846	Hon BWS	<b>Kamehameha Highway-Sunset Beach Water System Improvements, Parts I &amp; IV:</b> Install 16" mains & appurtenances from booster station to Sunset Beach 206 Reservoir Access Rd - approximately 5,300 LF & from Kahae Rd to Pupukea Rd - approximately 3,800 LF.	FY-08	\$ 5,700,000
27	80	DW215-0003	#215 DWS Upper Kula	6,659	Maui DWS	<b>Waikamoi Flume Repair/Replacement:</b> Repair or replace deteriorated wooden flume from surface water intakes to Waikamoi Dam, approximately 0.5 miles.	FY-10	\$ 3,000,000
28	80	DW336-0002	#366 BWS Waialeale-Sunset Beach	4,846	Hon BWS	<b>COMSAT Access Road Water System Improvements, Phase B:</b> Install 3" mains & appurtenances along Comsat Access Rd - approx 2,450 LF & two 4" electrical conduits & appurtenances - approx 1,750 LF.	FY-07	\$ 1,000,000
29	80	DW412-0003	#400 DW Lihue-Kapaa	1,923	Kauai DW	<b>Kokolau Intake Facility and Pipeline Replacement:</b> Upgrade of intake facility along with repairs and renovation of the existing 15-in connecting waterline for the Lihue Water System.	Apr-07	\$ 2,750,000

**Appendix B**  
**DWSRF Priority List of Projects for SFY 2009**

No.	Pts	DWSRF Proj No.	Public Water System	Population	Owner	Project (Name and Description)	Expected Construction Start Date	Estimated Construction Cost
30	80	DW434-0003	#434 DW Kalaheo	6,277	Kauai DW	<b>Waha, Wawae, and Niho Roads Main Replacement, Job No. 05-07, K-07, LO-13, at Kalaheo, Kaua'i, Hawaii:</b> Replace approximately 5,400 linear feet of 6-inch and 2,400 linear feet of 8-inch ductile iron waterlines along Wawae, Niho and Waha Roads, including one pressure reducing valve station along Waha Road.	Sep-08	\$ 3,000,000
31	80	DW434-0001	#434 DW Kalaheo	6,277	Kauai DW	<b>Kukuioolono 0.2 MG Tank Refurbish:</b> Refurbish leaking and deteriorating tank, reroof, repair interior and exterior walls and floor.	Jan-07	\$ 400,000
32	80	DW434-0002	#434 DW Kalaheo	6,277	Kauai DW	<b>Kalaheo Nursery Tank Booster Pump Station (2-200 GPM):</b> Refurbish leaking and deteriorating tank, reroof, repair interior and exterior walls and floor.	Jan-08	\$ 350,000
33	80	DW331-0028	#331 BWS Honolulu-Windward-Pearl Harbor	607,524	Hon BWS	<b>Waikiki Water System Improvements:</b> Install 8-in mains & appurtenances along Nohonani St, Nahua St, Walina St, & Liliuokalani St from Kuhio Ave to Ala Wai Blvd - approx 2,875 LF.	FY-07	\$ 950,000
34	80	DW331-0026	#331 BWS Honolulu-Windward-Pearl Harbor	607,524	Hon BWS	<b>Stadium Area Water System Improvements, Part I:</b> Install 12-in main & appurtenances along Kalaloea St from Ohekani Lp to Kam Hwy-9000 LF. Install 8-in mains & appurtenances-5300 LF.	Aug-08	\$ 1,936,000
35	80	DW413-0008	#400 DW Lihue-Kapaa	16,484	Kauai DW	<b>Wailua Houselots Main Replacement, Ph I and II:</b> Wailua-Kapaa Water System, Wailua, Kauai, HI - Pipeline Replacement - 10,170+LF.	Jul-07	\$ 5,000,000
36	80	DW413-0007	#400 DW Lihue-Kapaa	16,484	Kauai DW	<b>Pipeline Replacement, Kapaa Homesteads:</b> Wailua-Kapaa Water System; Kapaa, Kauai, HI - Pipeline Replacement - 23,470+LF.	Dec-08	\$ 4,600,000
37	80	DW331-0033	#331 BWS Honolulu-Windward-Pearl Harbor	607,524	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.	Jun-08	\$ 2,300,000

**Appendix B**  
**DWSRF Priority List of Projects for SFY 2009**

No.	Pts	DWSRF Proj No.	Public Water System	Population	Owner	Project (Name and Description)	Expected Construction Start Date	Estimated Construction Cost
38	80	DW331-0034	#331 BWS Honolulu-Windward-Pearl Harbor	607,524	Hon BWS	<b>Pacific Heights Water System Improvements, Part I:</b> Install 12-inch main and appurtenances along Pacific Heights Road from Haili Road to Pacific Heights 578 Reservoir. Install 8-inch main and appurtenances along Pacific Heights Road from Pacific Heights 915 Reservoir to Pacific Heights 578 Reservoir. Install 4-inch main and appurtenances along Pacific Heights Road from the 8-inch main near Von Hamm Place to the end of the 4-inch main near TMK 2-2-023:038.	Jun-08	\$ 1,700,000
39	80	DW331-0027	#331 BWS Honolulu-Windward-Pearl Harbor	607,524	Hon BWS	<b>Kalihi Water System Improvements, Part I:</b> Install 8" mains & appurtenances along Middle St - approx 2,200 LF; 8" and 4" mains & appurtenances along Kamehameha IV Rd - approx 12,600 LF; 2-1/2" main & appurtenances along Laniuma Rd - approx 2,875 LF.	FY-07	\$ 8,250,000
40	80	DW331-0021	#331 BWS Honolulu-Windward-Pearl Harbor	607,524	Hon BWS	<b>Punahou Water System Improvements:</b> Install 8" main & appurtenances along Hunnewell St from Lanihuli St to Seaview Ave, along Metcalf St from Wilder Ave to University Ave - 4500 LF.	FY-05	\$ 1,125,000
41	80	DW400-0001	#400 DW Lihue-Kapaa	29,183	Kauai DW	<b>Stable 1.0 MG Tank &amp; Connecting Waterline:</b> Construct new 1.0 MG tank, control valve station, SCADA, and approximately 620' of 16" and 2,750' of 12" ductile iron pipe.	Sep-08**	\$ 6,600,000
42	80	DW332-0004	#332 BWS Waialua	11,572	Hon BWS	<b>Kamehameha Highway 8-inch Mains:</b> Install 8" main & appurtenances along Kamehameha Hwy & Lokoea Rd - approx 5,650 LF & 2-1/2-in copper service main along Anahulu Pl - approx 230 LF.	FY-07	\$ 2,500,000
43	80	DW332-0003	#332 BWS Waialua	11,572	Hon BWS	<b>Haleiwa Road Water System Improvements:</b> Install 12-in main & appurtenances along Haleiwa Rd from Waialua Brach Rd to Paukaula Stream Br - approx 1,525 LF. Install 8-in mains - approx 4500LF.	Aug-08	\$ 1,815,000
44	80	DW214-0009	#214 DWS Lahaina	16,000	Maui DWS	<b>Napili Well "A" Site Improvements:</b> Construct new tank and renovate pump control and chlorination buildings.	Oct-08	\$ 3,162,925
45	80	DW331-0030	#331 BWS Honolulu-Windward-Pearl Harbor	607,524	Hon BWS	<b>Kaimuki Water System Improvements, Part I:</b> Install 8" mains & appurtenances along Maunaloa Ave, Kaimuki Ave, Pahoa Ave, 17th Ave, 18th Ave, 19th Ave & 20th Ave - approx 9,850 LF	FY-07	\$ 2,500,000
46	80	DW331-0035	#331 BWS Honolulu-Windward-Pearl Harbor	607,524	Hon BWS	<b>Wilhemina Rise Water System Improvements, Part III:</b> Install 12-inch, 8-inch and 2-1/2-inch mains and appurtenances along Wilhemina Rise from Anuhea Street to Matsonia Drive and along Kawelolani Place from Wilhemina Rise to 300 feet west of Wilhemina Rise.	Apr-08	\$ 1,760,000

**Appendix B**  
**DWSRF Priority List of Projects for SFY 2009**

No.	Pts	DWSRF Proj No.	Public Water System	Population	Owner	Project (Name and Description)	Expected Construction Start Date	Estimated Construction Cost
47	80	DW331-0032	#331 BWS Honolulu-Windward-Pearl Harbor	607,524	Hon BWS	<b>Maunalaha Homesites Water System Improvements:</b> Install 8" mains & appurtenances along Round Top Dr - approx 1,500 LF & 8, 6, & 2-1/2" mains & appurtenances along Maunalaha Rd - approx 1,805 LF.	FY-08	\$ 1,200,000
48	80	DW331-0031	#331 BWS Honolulu-Windward-Pearl Harbor	607,524	Hon BWS	<b>Oahu Ave and Huelani Drive 8-inch Mains:</b> Install 8" mains & appurtenances along Oahu Ave, Huelani Dr, Loulu St, & Papala St - approx 4,750 LF.	FY-07**	\$ 1,870,000
49	80	DW331-0029	#331 BWS Honolulu-Windward-Pearl Harbor	607,524	Hon BWS	<b>Manulani Street &amp; Mowai Street 8-inch Mains:</b> Install 8" mains & appurtenances along Manulani St, Manulani Pl, & Mowai St - approx 3,500 LF	FY-07	\$ 900,000
50	80	DW331-0023	#331 BWS Honolulu-Windward-Pearl Harbor	607,524	Hon BWS	<b>Kalama 400 Reservoir (1.0MG) and Kalama 170 Booster Station:</b> Install reservoir and booster station to balance system.	Dec-08	\$ 4,500,000
51	80	DW331-0022	#331 BWS Honolulu-Windward-Pearl Harbor	607,524	Hon BWS	<b>Waialae 180 Reservoir Replacement (3.0 MG):</b> Demolish existing 1.0 MG reservoir and replace with 3.0 MG reservoir.	Dec-10	\$ 9,000,000
52	70	DW130-0004	#130 DWS South Kohala	8,872	Hawaii DWS	<b>Waimea Water Treatment Plant Sludge Drying Beds:</b> Sludge disposal system for compliance with Filter Backwash Recycling Rule.	Jul-06	\$ 5,000,000
53	60	DW248-0001	#248 Kawela Plantation	160	Kawela Plantation Homeowners	<b>Kawela Plantation Source Replacement:</b> Installation of new wells and supporting infrastructure at Kawela Plantation, Molokai.	pending funding (Sep-06)	\$ 1,650,000
54	60	DW417-0003	#417 Gay & Robinson	2,201	Gay & Robinson	<b>Kaumakani Storage Tanks:</b> Replace leaking and deteriorating 100,000 gallon tank.	pending funding	\$ 150,000
55	60	DW417-0001	#417 Gay & Robinson	2,201	Gay & Robinson	<b>Pakala Water Tank:</b> Replace a leaking and deteriorated redwood tank.	pending funding	\$ 130,000
56	60	DW417-0002	#417 Gay & Robinson	2,201	Gay & Robinson	<b>Olokele Shaft Pipe Repair:</b> Olokele Shaft State Well No. 5635-01, slipline aging and leaking transite asbestos pipe. 800' of 10" pipe at 30 degrees slope.	pending funding	\$ 100,000
57	55	DW130-0005	#130 DWS South Kohala	8,872	Hawaii DWS	<b>Ahualoa Well Development - Phase 1 and Ahualoa Well Development - Phase 2 (Production Well and 1.0 MG Reservoir):</b> Well development to replace Kohakohau Stream, a surface water source and construction of 1.0 MG Reservoir.	May-06	\$ 5,000,000

**Appendix B**  
**DWSRF Priority List of Projects for SFY 2009**

No.	Pts	DWSRF Proj No.	Public Water System	Population	Owner	Project (Name and Description)	Expected Construction Start Date	Estimated Construction Cost
58	45	DW108-0001	#108 DWS Waiohinu-Naalehu	2,225	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 & indication of possible surface water influence.	Jul-06	\$ 2,000,000