



# Annual Report *for* Fiscal Year 2021 - 2022

*Kuleana Wai*



*“Together, we  
provide safe,  
affordable and  
sufficient drinking  
water through wise  
management of our  
resources and with  
excellent customer  
service for the people  
of Kaua'i”*

## BOARD OF WATER SUPPLY

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**JULIE SIMONTON**, CHAIR  
**GREGORY KAMM**, VICE CHAIR

**KURT AKAMINE**, SECRETARY  
**LAWRENCE DILL**, MEMBER  
**KA'AINA HULL**, MEMBER  
**TROY TANIGAWA**, MEMBER  
**TOM SHIGEMOTO**, MEMBER



September 6, 2022

Honorable Derek S. K. Kawakami  
Mayor of the County of Kaua'i  
And Chairperson and Members of the  
County Council, County of Kaua'i  
Līhu'e, HI 96766

Aloha,

The Board of Water Supply, County of Kaua'i (BWS, Board) presents the annual report for the 2022 fiscal year ending June 30, 2022. This report includes a description of each program, objectives, and accomplishments of the Department of Water (DOW), projects completed and in progress, operations reports, the DOW's financial status, and changes in physical assets.

New Manager and Chief Engineer Joe Tait was hired in October, 2021 and has been consistently working with the Board and staff to identify department challenges and needs, working towards correcting and implementing processes with best utility practices, industry programs, and the necessary Department restructuring to enable DOW to provide the continuous level of service that our customers deserve.

As we navigated through the on-going COVID-19 pandemic, DOW continued to take necessary measures to ensure the safety of our staff and customers, making appropriate adjustments as policies changed and restrictions were eased. We diligently worked on modifying the format and processes of our Board meetings as we converted from all remote to hybrid-type meetings while ensuring compliance with the constant changes to the Sunshine Laws.

The total water service sales revenue as of June 30, 2022, was \$28.5M which was about 14% more than the DOW's projection. The DOW receives its revenue from water service sales and has no direct subsidies or contributions from the Kaua'i County General Fund.

In FY 2022, DOW maintained its water system, managed approximately \$20 million in Capital Improvement Projects (CIP), one-hundred twenty-eight (128) private projects, and continues to leverage the Build America Bond (BAB) fund and other available funding streams. The Kaumuali'i Highway 16-Inch Main and Emergency Booster Pump Connection Project and the Hanapēpē Road 6" Replacement Project was completed as of December 2021. Construction is ongoing for the Drill and Test Kapa'a Well No. 4 and Drainage Improvements Project which is anticipated to be complete by December of 2022.

In Fiscal Year 2023, we anticipate construction will commence for the following CIP projects:

- Rehabilitate Paua Valley 0.5-million-gallon Concrete Tank No. 1
- Kīlauea Wells No. 1 and 2 MCC and Chlorination Facilities
- Kalāheo Water System Improvement

- Kapa'a Homesteads 313' Tanks (1.0 MG)

The Department has received supplemental funding from State Legislative appropriations and through the Hawaii Department of Health - Drinking Water State Revolving Fund (DWSRF) to help support the much-needed infrastructure improvements.

The Department has awarded twenty (20) contracts and executed various memorandum of agreements between state and the county agencies. The DOW continually works on its island-wide vulnerability and resiliency assessments and has drafted a new emergency response plan, in compliance with the American Water Infrastructure Act (AWIA) requirements. These assessments will identify and prioritize mitigation actions to enhance our preparedness for hurricanes and extreme events, as well as our recovery capabilities. These plans will be reviewed annually and certified every 5 years.

Through fostering supportive partnerships with our County colleagues and related agencies throughout the County and State, the Department of Water will continue to work toward strengthening our community and customer relationships and continue to provide safe, affordable, and sufficient drinking water to the people of Kauai.

Sincerely,

  
Julie Simonton (Sep 12, 2022 12:40 HST)

Julie Simonton  
Chair - Board of Water Supply  
County of Kaua'i



**ANNUAL REPORT**  
**FISCAL YEAR 2021-2022**  
*(July 1, 2021 – June 30, 2022)*

**I. MISSION STATEMENT**

The following mission statement serves as the guiding principle for the Department of Water (DOW). The mission statement was established in 1998.

**Department of Water – Mission Statement**

*“Together, we provide safe, affordable and sufficient drinking water through wise management of our resources and with excellent customer service for the people of Kaua'i”*

**II. ORGANIZATION (County Charter, §17.01)**

There shall be a Department of Water Supply consisting of a Board of Water Supply (“BWS, COK” or “Board”), a Manager and Chief Engineer and the necessary staff.

The DOW is a self-supporting entity of the County of Kaua'i. The Department’s revenue is derived from water service sales with no direct subsidy from, or contributions to, the County General Fund. DOW’s water service revenue is used for the operation and maintenance of each ten (10) water systems. In efforts to provide adequate funding in the future, the DOW will periodically study its water service rates and Facilities Reserve Charge (FRC). The FRC is a fee paid by new developers or customers requesting additional water supply from the DOW’s water system.

**A. BOARD OF WATER SUPPLY: (County Charter, §17.02)**

The BWS shall consist of seven (7) members, four (4) of whom shall be appointed by the mayor, with the approval of the Council; one (1) of whom shall be the State District Engineer of the Department of Transportation; and two (2) of whom shall be the County Engineer and the Planning Director.

Julie Simonton was appointed as Board Chair for calendar year 2022. The BWS also appointed Gregory Kamm as Vice-Chair and Kurt Akamine as Board Secretary.

	<u>Term Expires</u>
<b>Julie Simonton</b> , Chair.....	12/31/22
<b>Gregory Kamm</b> , Vice-Chair .....	12/31/22



<b>Kurt Akamine</b> , Secretary .....	12/31/24
<b>Tom Shigemoto</b> , Member.....	12/31/24
<b>Lawrence Dill</b> (State District Engineer) .....	(ex-officio)
<b>Troy Tanigawa</b> (County Engineer) .....	(ex-officio)
<b>Ka`aina Hull</b> (Planning Director & Board Secretary) .....	(ex-officio)

**Power & Duties of the Board** (County Charter, §17.03)

The Board shall manage, control, and operate the waterworks of the County and all property thereof, for the purpose of supplying water to the public and shall collect, receive, expend, and account for all other moneys and property provided for the use or benefit of such waterworks.

- a. The Board shall maintain accounts to show its complete financial status and the results of management and operations.
- b. The Board may provide for a reserve fund, issue revenue bonds, provide for payment of bonds, expend bond funds and other funds, establish rates and charges, acquire property, sue, and be sued, and engage in and undertake all other activities as provided for in Chapter 145-A, Revised Laws of Hawaii 1955, and as may be hereafter provided for by law.
- c. The Board may make and, from time to time, alter, amend, and repeal rules and regulations relating to the management, control, operation, preservation, and protection of the waterworks. Such rules and regulations shall have the force and effect of law. Penalties for the violation of any rule or regulation shall be set forth in the rules and regulations.

**B. STAFF** (County Charter, §17.04)

On December 8, 2020, County Charter was amended to state:

The manager and chief engineer shall be appointed and may be removed by the board of water. Said person shall be the head of the Department. The manager and chief engineer may but is not required to be an engineer duly registered under Hawai'i state laws pertaining to registration of engineers and shall have a minimum of five years of training and experience in an engineering related position, at least three years of which shall have been in a responsible administrative capacity. Said person shall have the powers and duties prescribed by the Board. (Amended 1980, 2020)

The Board created a permitted interaction group to recruit, receive and screen applications for the manager and chief engineer position.

For FY 22, the DOW funded one hundred nineteen (119) positions, including positions that were partially funded as well as six (6) summer interns. There were nine (9) new hires. Included in these personnel activities, there were nine (9) promotions, no (0)



demotions, two (2) transfers, three (3) re-defined positions, eight (8) retirements, one (1) resignation, and two (2) separations. At the end of FY 22, the Department had ninety-seven (97) positions filled.

The DOW recognized its 2021 Employees of the Year, Darwin “Zoom” Bukoski, Electronics/Plant Electrical Tradesperson I and Terrilyn “Terri” Amorin, Account Clerk.

Previously, there were eight (8) divisions under the management of the Manager and Chief Engineer. After reorganization, there are four (4) Divisions - Operations, Fiscal, Engineering and Administration.

#### **1. ADMINISTRATION DIVISION**

Under the Manager and Chief Engineer, the administrative staff included sixteen (16) positions of which sixteen (16) were budgeted for FY 22. The Administration Division is responsible for the day-to-day management of the Department and coordination between DOW and the public, including customers, governmental organizations, and public inquiries; personnel management; management of information and technology, contract management; management of Board affairs; and providing service to, and oversight of, the operation of each of the four (4) divisions.

*Staff in Administration ending June 30, 2021: 7*

*Staff in Administration ending June 30, 2022: 9*

#### **Program Description**

Administration leads, directs, and manages the activities of the Department and provides administrative support for all divisions including personnel services, clerical support, legal support, community relations, information and technology management, training, and safety; intergovernmental coordination with Federal, State and County agencies; and coordination of long-range planning and Department programs and activities among the divisions.

#### **Program Objectives**

- a. Provide support for the BWS, COK in its role to manage, control, and operate the publicly owned waterworks of the County, and all property thereof; adoption of the DOW’s budget and establishment of water service rates and charges; and facilitate development and implementation of administrative rules and Board policies.
- b. Administer the Department’s staff and provide support for the operating divisions, through provision of clerical, personnel, legal and information and educational services; coordination of Department-wide programs; establishing goals, objectives, and assignments for the operating divisions; and providing operational financial and procurement oversight for the Divisions.

- c. Provide leadership for the Department's community relations and intergovernmental coordination with other federal, state, and county agencies.
- d. Coordinate Department-wide initiatives and programs, including long range planning, development of business and capital improvement program strategies, staff and organizational development, water system security and adoption, and integration of recent technologies.
- e. Communicate internal outreach to employees during staff meetings and weekly leadership meetings to ensure all employees are aware of new or amended rules and regulations as well as various matters that require staff attention.
- f. The Department reorganized Administration in FY 21-22; Information Technology became a section under Administration.

**Program Highlights**

- a. The DOW continues to work on Water Plan 2020 (WP2020) projects. Public outreach to promote water conservation and environmental education, including sponsoring Project WET (Water Education Today).
- b. The DOW continues to work with and support the Kaua'i Watershed Alliance (KWA), an organization for mauka landowners dedicated to watershed conservation and management. The KWA has hired The Nature Conservancy of Hawai'i (TNC) as the coordinator for the Alliance. In FY 21-22, the Department has contracted grant with The Nature Conservancy for \$250,000. The Department, while not a landowner, is a member of the Alliance and continues to support the conservation goals and efforts of this group in recognition of the critical importance of the watershed for maintenance and enhancement of the water resources of the island.
- c. The Department also continues the work with and support the United States Geological Survey's (USGS) Groundwater Monitoring Program to continue to collect data and evaluate the status and trends of water levels in selected wells on the island. In FY 21-22, the Department has a contracted grant with The Nature Conservancy for \$26,160.

The following summary is an overview of some of the key Department-wide accomplishments for FY22.

**Board of Water Supply**

- a. Approved funding requests in support of training efforts and staff reorganization.
- b. The Board approved the DOW's FY22 operating budget of \$29.4M acquiring twenty (20) new contracts and the following agreements:

- Data Sharing and Confidentiality Agreement between Hawaii EUTF, State of Hawaii, and County of Kauai DOW
  - MOU between ERS State of Hawaii and County of Kauai DOW for the Governmental Accounting Standards Board Statement No. 68, “Accounting and Financial Reporting for Pensions” Financial Statement for FY 2021 through 2026
  - Joint Funding Agreement with U.S. Geological Survey for period October 1, 2021, to September 30, 2021.
  - Annual Use and Occupancy Permit No. 847 between the State of Hawaii and the Board of Water Supply, County of Kauai for non-trenching maintenance, inspection and other uses and activities within the State Highway Right-of-Way, Kauai, Hawaii
  - Memorandum of Understanding between the Office of the Auditor, State of Hawaii, and County of Kauai DOW to perform audit services for FY June 30, 2022, 2023 and 2024
- c. Rule Changes
- None
- d. Water Service Rates
- The last water rate increase occurred in fiscal year 2015 (implemented July 1, 2014). There have been no scheduled water service rate increases since 2015. There are no current plans to compete a water rate study; however, funding has been approved for a rate modeling training program.

**Departmental Programs**

- a. The DOW is a member of the American Water Works Association (AWWA). This is a non-profit international organization that provides management and treatment resources through standards, research documents and training to DOW staff. The Department enjoys access AWWA Journals, AWWA Water Science, Water Utility Insider, AWWA Connections Newsletter, Section Membership, and certifications in addition to their public official courses that benefit the Board of Water Supply board members. This membership includes membership in the Hawai'i Section of AWWA.
- b. The DOW is also a member of the Hawai'i Water Works Association (HWWA). HWWA is a locally based non-profit 501(c)3 organization comprised of the Public Water Systems (PWS) in Hawaii and is directed by the county agencies. HWWA provides coordination and training opportunities with water system standards and the improvement of practice in operating and management of the water works and government policies in the stewardship of water.



- c. Tracking American Water Works Association (AWWA) Performance Indicators in areas of finance, customer service, operations, and system replacement.
- d. The Department continues membership with the Water Research Foundation in the amount of \$7,900 for which provides tools for all employees to access to improve quality of life through the sustainable management of water resources, water protection, and water and wastewater treatment.
- e. The DOW continues to strive towards reducing operational costs by filling vacant positions and reducing overtime. This process is incremental but continues to be a priority. Overtime will continue to be needed to cover essential functions during weekends, holiday and after hour emergencies.
- f. The DOW continues to provide leadership in emergency preparedness through its participation in the Utility Disaster Preparedness and Response Group which is comprised of twenty-one members of electric utility, communications, fuel and gas representatives, private water agencies, hospital representatives including Federal, State, and County Agencies, in order to provide support for the maintenance, repair, and/or restoration of all public utilities serving the County during any emergency or disaster.
- g. Training that was postponed/cancelled due to the COVID-19 pandemic in FY22:
  - Project WET Conference – virtual only
  - Hawai'i Water Works Association Fall Conference Training
  - Pacific Water Conference Training – virtual only
  - SkillPath Workshops and Webinars continued virtually throughout the year.

## **Public Relations**

### **Program Description**

The Public Relations (PR) Section, within the Administration division, performs a wide range of public informational activities relating to departmental functions and programs. PR's main objective is to develop, manage and perform the DOW's public information, conservation programs and community outreach initiatives. This involves detailed coordination of community events, presentations and advertising platforms that highlight the DOW in a positive and professional way. PR provides recommendations for the Department's communication methods for divisional and Department-wide announcements. PR programs also include educational presentations to promote the Department's water conservation programs and general water service operations. PR achieves its main objective through the careful development and dissemination of accurate and timely public information to customers regarding DOW's complex water systems and hosting a variety of outreach campaigns. PR coordinates and conducts its successful programs with participation from all divisions at the DOW.

## **Program Highlights**

The PR activities of note during FY21 include the following:

### **a. Project Water Education for Teachers (WET) Program**

The Project WET program continues to provide valuable curriculum and advancement opportunities for the DOW's PR programs. PR utilizes the Project WET curriculum as a supplement to its water educational presentations, displays and community outreach efforts. The DOW continues to serve as the state's host institution for Project WET in Hawaii and the Information and Education Specialist position is the program's state coordinator. The state coordinator is responsible for fulfilling the Project WET host agreement and includes overseeing a network of certified Project WET Facilitators, coordinating training, and helps organize statewide requests for Project WET presentations.

Project WET Hawaii hosted its first in-person Facilitator Training Workshop on August 24-25, 2021, certifying five (5) new Facilitators, including PR's Information Specialist I, Jenny Paleracio. A second Facilitator workshop certifying four (4) additional Facilitators was held on December 20, 2021.

Plans for the Make a Splash with Project WET Festival for Sept. 2022 was confirmed, and coordination of the event has begun.

### **b. Community Outreach & Education**

Imagine a Day Without Water – PR coordinated a “Make a Splash” in-a-bag educational experience for 5<sup>th</sup> grade students on Kauai. The bag included water education tools and activities for students in honor of the Imagine a Day Without Water campaign which is celebrated nationally, on October 21, 2021. The campaign celebrated water agencies, industry professionals and the importance of water resource management. The Department distributed more than 550 “Make a Splash” in-a-bag experiences and hosted a social media campaign, which ran from Oct. 17-23, 2021, via the Department's Facebook page.

EPA's Fix a Leak Week – PR coordinated the DOW's annual Fix a Leak Week (FALW) campaign on March 14-18, 2022. Free toilet leak detection tablets and starter kits were offered in the Department's main lobby with a secondary location for the free tablets offered at Tanaka Hardware Store in Lihue to allow the public to pick up tablets after-hours. PR also partnered with the Hawaii Public Housing Authority to promote conservation and leak detection to their tenants, island wide. A total of 212 starter kits were distributed and more than 1k leak detection toilet tablets were distributed during this event. Educational awareness during Fix a Leak Week was also published online, via promotional messaging on Facebook page, newspaper banner ads and radio advertisements.

Educational Presentations – PR provided 2 community presentations in FY 21-22. In November, PR conducted a presentation on water services, billing, and customer services during a new homeowner meeting in partnership with the Kauai Habitat for Humanity. The homeowners received a customer welcome package including FAQ's brochure, conservation tools and an automatic bill payment application. PR also provided a water conservation and water quality educational presentation for students at the Hawaii Technology Academy in Lihue in April 2022. Students received goody bags filled with conservation tools and a Project WET activity booklet.

**c. Media Campaigns & Advertisements**

DOW uses local radio, print and social media platforms to primary vehicles of advertising to promote customer services, department announcements and conservation program information. PR produces important media campaigns annually and utilizes the captive media audience to announce water service emergencies and/or important Departmental announcements.

PR expanded radio advertising in the new year to supplement limited in-person services and help to reach a wider range of demographics. In 2021, DOW's annual radio contracts included the following stations: H. Hawaii Media Group, LLC, KFMM-FM97 Radio Station and KONG Radio Group, Inc. DOW produces consistent radio advertising for public announcements (i.e., water shutdowns, road closures, emergency water conservation, workshops, covid-19 related messages, and general water service information). Contracted radio announcements ensure that notices are read on-air frequently, and at a moment's notice, when emergencies arise. The DOW also used radio advertisements to promote conservation tips and other promotional advertising that benefited the DOW.

DOW's weekly media campaign, "Wise Water Wednesdays" continued through 2021-2022 and included weekly newspaper advertisements, radio spots and branded Facebook posts. The weekly Wednesday campaign aims to promote DOW's water conservation initiatives, Department services and special announcements. The simultaneous radio and newspaper ad, combined with Facebook posts helps to increase awareness in our communities.

PR produces print advertisements to promote Department services and conservation through a weekly banner ad in the Garden Island Newspaper on Wednesdays, the newspaper's 2nd highest readership day. A half-page advertisement in the Kaua'i Family Magazine, quarterly publication is also published. The magazine's target demographic is local families with children and has a distribution list that includes schools, shopping centers and community resource centers. In 2021-2022, the DOW's quarterly advertisements included

water conservation tips, billing services information, water emergency preparedness and seasonal water related topics.

**d. Community Support**

DOW donated a total of 1,500 DOW pencils and 340 hand sanitizers towards 3 community events held Oct. 28-31, 2021, in support of the following schools and organizations: Kalāheo Elementary School, Kaua'i Resilience Project's community Halloween event in Lihue and Kekaha Elementary School's community trunk or treat event.

**e. Media Features**

The DOW received multiple features in the Garden Island Newspaper and other local, state news stations throughout the year for its water notices and education and outreach programs. PR continues to command media attention for important water related topics, such as: water conservation, water quality, emergency preparedness and water service announcements.

The U.S. Environmental Protection Agency (EPA) recognized DOW with a 2021 WaterSense Excellence Award for PR's creative and strategic educational outreach efforts, conservation programs and dedication as an EPA WaterSense Partner. PR's 2020 campaigns worked to adapt its community outreach approach to continue educational programs for customers during the pandemic. DOW was successful in coordinating new community-accessible events with the help of local partnerships and provided more than 700 water storage jugs, 550 water education resource kits and over 200 leak detection kits to communities. The 2021 Excellence Award was officially announced on October 7, 2021, during an awards ceremony at the WaterSmart Innovations Conference in Las Vegas and was presented virtually to DOW during the Kauai Board of Water Supply meeting held on October 21, 2021.

**f. Increased Social Media Presence**

PR continues to utilize DOW's social media pages for public notices and service announcements. FY21 ending, there were 2,698 followers on the DOW's Facebook page, resulting in an approximate 8% increase of followers compared to last year. Based on the likes and shares received on Facebook, followers continue to utilize the DOW's page to monitor and engage on water service notices, such as scheduled and emergency service shutdowns, etc.

PR's Wise Water Wednesday campaign continues to include a mix of video, audio, and text posts on Facebook. The weekly campaign provides awareness of the Department's services, conservation awareness and other customer-related topics providing the most current information online. PR has also participated in joint social media campaigns with other national water-related agencies through use of campaign hashtags and shared content.

## **Information Technology**

### **Program Description**

The Information Technology (IT) Section manages and coordinates internal processes, activities, and the actions of all professional consultant services and maintains databases for the Department's Financial, Procurement, Billing, SCADA (Supervisory Control and Data Acquisition), and Maintenance Management Systems. The Section is responsible for maintaining and updating all software applications utilized to support Departmental functions. The Section maintains, supports, and oversees security of the Department's local and internet network systems. Additionally, the Section maintains, supports, updates, and troubleshoots the Department's website, Voice over IP Phone System (VoIP), and assists with the Geographic Information System (GIS) program.

### **Program Highlights**

- a. The IT Division continues to manage the Customer Care and Billing System, with the review and maintenance of a dedicated (encrypted) virtual private network (VPN) connection. Continual improvements are ongoing to provide secure connectivity and resource availability to Department staff.
- b. During FY22, the Department provided the IT Section with an enhanced budget and servers were ordered which will replace our dated server farm. Migration plans are ongoing while hardware is expected in December 2022. Improvements were made in additional areas which increased reliability.
- c. To enhance security measures with the DOW network, MFA (Multi-Factor Authentication), and procured CrowdStrike Complete to provide real-time antivirus/malware protection for our business network.

### **5-year IT Strategic Plan**

A 5-year IT Strategic Plan (ITSP) was adopted in May of 2019. This was cast aside in early 2021 but is being reviewed and updated in FY23. The ITSP identified twelve initiatives to improve the efficiency of the Department:

1. Replace M-PET (Maintenance Productivity Enhancement Tool) with a GIS-based Work Management System:  
*Migration to the improved cloud-based version of M-PET work management system has been reviewed and meets the intent of the ITSP*
2. Review and Align Billing System Configuration:  
*Review of the billing system is currently underway*
3. Develop GIS Technologies and Processes:  
*A consulting group is cleansing data and prepping it for the ESRI model. We will soon have a SQL Server 2019 database in house for hybrid access*

4. Maintain and Support Hydraulic Model Software:
5. Core IT Infrastructure Upgrades:  
*Accelerated by COVID needs, IT infrastructure upgrades have been initiated and are continually being improved as the needs arise. Migration to O365, which includes cloud-based email (Exchange), and Document Library (SharePoint), was completed in FY21. Kinks are being worked out.*  
  
*Server/Infrastructure upgrades with an ETA of December 2022, migration will continue until Q3 of FY23.*
6. Procure Emergency Communication Equipment:  
*Procurement of the equipment was completed in June 2019. Tests and creation of a test plan continue.*
7. SOPs (Standard Operating Procedures) and Proficiency Testing Program:
8. Improve use of SharePoint:  
*Improvements are ongoing with the assistance of professional services consultants.*
9. Expand the I.T. Section into a Division to Support DOW's growing needs:  
*Board approved the creation of an IT Division and an additional IT position in FY19. Interim Manager rolled IT Section under an Administrative Division without appointed leadership. A new, full-time Manager has initiated a department-wide reorganization. We are now exploring workforce options to fill the void that was inherited.*
10. Develop Standing User Groups:  
*An outcome from the current reorganization will result in representatives from each division, as well as County staff, bringing forth their knowledge of applications and desired future partnership and collaboration efforts. Refreshed applications in silos lack synergy. With newfound data capabilities, it would be foolish not to plan integration into our growth with software and hardware investments.*

**Vision for the New I.T. Strategic Plan**

The Department intends to use upgraded technology and prudent data management to greatly improve its efficiency, improve customer service, appropriately plan for future needs, and provide reliable, safe drinking water, while being fiduciarily responsible. The vision for the IT Section over the planning horizon is as follows:

1. Manage our work, assets, projects, and materials professionally and collaboratively
2. Provide excellent customer service, internally and externally, to the ratepayers and Department staff alike
3. Use technology to operate efficiently and effectively with evidence-based decisions
4. Understand and improve our technologies to best support our processes
5. Build partnerships between users and IT staff to work as a team
6. Develop an IT organization with the resources needed to provide valued advice and great support

## **2. ENGINEERING DIVISION**

### **Program Description**

The Engineering Division includes the following sections, Water Resources and Planning, Environmental, and Project Management. The Division is responsible for the planning, outreach, design, construction, and water quality needed to provide current and future customers with high quality service in alignment with the Department's Mission. The program conducts research and analytical assessment, investigation, analysis, and review of the Department's water system infrastructure and provides guidance to proposed developments' (subdivision, zoning, and land use amendments, resorts, hotels, and hotels, etc.) planning, design construction and water quality to ensure compliance with the Safe Drinking Water Act, applicable laws, rules, regulations, policies, and its Water System Standards.

The Division is responsible for the oversight of the Department's Capital Improvement, Capital Replacement and Water Quality programs. The Division prepares and administers professional services and construction contracts for water infrastructure improvement projects of the Department.

In addition, the program maintains the engineering records and provides mapping/drafting services to support the Department.

*Staff in Engineering ending June 30, 2021: 14*

*Staff in Engineering ending June 30, 2022: 14*

### **Program Objectives**

- a. Conducts long-range planning, research, and analytical studies of water usage to monitor and forecast the anticipated water supply needs for the island of Kaua'i.
- b. Conduct condition assessment, investigation, analysis, and review of the Department's water systems infrastructure.

- c. Provides guidance and reviews proposed developments' water system planning (subdivisions, zoning and land use amendments, resorts, hotels, water service request, etc.) to ensure compliance with the Department's Rules and Regulations and Water System Standards.
- d. Determine and evaluate hydraulic criteria in the development of an efficient water system distribution network.
- e. Provide information and criteria to Federal, State and County agencies, stakeholder groups and the public to assist with the management and protection of the island's water sheds and water resources.
- f. Provides engineering services (planning, environmental, design and construction) to ensure that water infrastructure improvements and expansion follow applicable laws, rules and regulations, policies, and standards of the Department.
- g. Maintain maps and records of the Department's water infrastructure.
- h. Conduct water system compliance testing to certify that the Department's water systems and water quality complies with Environmental Protection Agency (EPA) and the State of Hawai'i Department of Health (DOH) safe drinking water standards.

### **Program Highlights**

The Engineering Division continues to utilize the \$60 million Build America Bond (BAB) from March 2010 along with State Legislative appropriations and grant funds through the Hawaii Department of Health – Drinking Water State Revolving Fund (DWSRF) to deliver infrastructure projects. The Division utilizes infrastructure improvement funding from DOW impact fees and water rates, as well.

#### **a. Water Resources and Planning Section**

In FY22, Water Resources and Planning Section (WR&P) accomplished the following:

- Subdivision-Land Use applications => 223 (increase of 68%)
- Water Service Requests => 195 (decrease of 15%)
- Building Permits applications => 2012 (increase of 11.5%)
- Backflow Prevention Devices Tested => 2262 (increase of 14.7%)  
(Note: Percentage increase/decrease compared to FY21)
- Water Systems Investment Plan (Long Range Plan Update) => 18% complete
- Microbiological Laboratory Recertification



WR&P continues to review and update the Department's Rules and Regulations, Part 5, Facilities Reserve Charge (FRC) Section III to assess reasonable impact fees for facilities connecting to the Department's water system. The assessment of impact fees is a component of the Water Systems Investment Plan.

**b. Project Management Section**

In FY22, Project Management Section (PM) accomplished the following:

- Management of approximately \$20M of Capital Improvement Program projects
- Design approval of 139 private projects
- Construction oversight of 128 private projects

Capital Improvement Projects of note:

- HE-14 – Hanapēpē- 'Ele'ele Booster Pump Replacements - completed
- HE-1 – Reorganize Water System; Pipeline Connecting Hanapēpē and 'Ele'ele - completed
- HE-10 – Hanapēpē Road 6" Water Main Replacement - completed
- PLH-35b – Kapaia Cane Haul Road 18-Inch Water Main – on hold pending environmental decision
- WK-08 - Kapa'a Homesteads Two 0.5 MG Storage Tanks Drain Line Package A – project in construction
- WK-23 – Wailua Homesteads 0.25 MG Storage Tank (U.H. Experimental Station Site) - Right-of-Entry Agreement execution in progress with UH College of Tropical Agriculture and Human Resources.
- WK-39 – Kapa'a Homesteads Well #4 – project in construction.

Anticipated CIP projects to commence in FY23

- K-01 & K-12 – Kalāheo Water System Improvements (Yamada 0.5 MG Storage Tank, Clearwell 0.5 MG Storage Tank, 8" Water Main, Yamada Well) - project bid and awarded to Hawaiian Dredging Construction Company
- KW-07 – Rehabilitate Paua Valley Tank #1, 0.5 MG Concrete
- WK-08 – Kapa'a Homesteads Two 0.5 MG Storage Tanks (1.0 MG Total) Package B - preparing for construction.
- WKK-03 – MCC, Chlorination Facilities, Kīlauea Wells No. 1 & No. 2
- WKK-15 – Kīlauea (Pu'u Pane) 1.0 MG Storage Tank and Connecting Pipeline
- PLH-27 – Kūhiō Hwy (Hardy-Oxford) 16" Main Replacement - in design

### **3. OPERATIONS DIVISION**

#### **Program Description**

The Operations Division is responsible for repairing, maintaining, and operating the DOW's water distribution network, water storage facilities and water producing sources. As water is an essential commodity, emergency repairs and trouble calls are provided round-the-clock on an as-needed basis with Operations personnel on standby duty to respond to emergencies and requests for assistance from both internal and external customers. To accomplish its mission, the Operations Division maintains and stocks a complete inventory of materials and supplies for assurances that repairs are completed in a timely manner.

Along with the responsibilities of providing potable water, Operations Division provides the DOW facilities maintenance and fleet management functions and is responsible for the maintenance, repairs and replacement of DOW owned facilities, vehicles, and equipment.

Operations Division prepares bid documents and solicitations, procures, and administers maintenance, repair and construction contracts for projects included in the Division's budget for the fiscal year but not included in the Water Plan 2020 projects; procures and manages professional services contracts as well as maintenance, and goods and services contracts.

In addition to providing external customer service in responding to water related emergency calls from the public, Operations Division personnel also provides internal customer service by assisting and helping other Divisions, Departments and Agencies in need of labor assistance within the expertise of Operations personnel.

Under the direction of the Chief of Operations, the Operations Division team of fifty-seven (57) personnel are with the Plant Operations Section, the Field Operations Section, and the Administration Section

*Staff in Operations ending June 30, 2021: 48*

*Staff in Operations ending June 30, 2022: 47*

#### **Program Objectives**

The Operations Division daily activities are centered along the following:

- a. Operating, monitoring, and maintaining 52 deep-well pumping stations, 19 booster pumping stations along with its associated electrical motor control centers and chlorination disinfection equipment, four tunnel sources, 60 storage tanks, and 75 control valve stations.

- b. Maintaining, repairing, and replacing mechanical and electrical malfunctioning components, equipment, and infrastructure to maintain water service.
- c. Maintaining and repairing the DOW's fifty-six (56) vehicles, two (2) backhoes, two (2) skid steer loaders along with their various attachments, five (5) mini-excavators, one (1) portable air compressor, 11 trailers, 17 trailer-mounted generators ranging in sizes from 70 KW to 400 KW, two light towers, and numerous motorized hand-operated construction equipment.
- d. Operating, monitoring, maintaining, and repairing more than 400 miles of pipeline, 22,475 consumer water service connections, 4,000 valves, and 2,600 hydrants and standpipes.
- e. Installing new service connections and meters including the replacement of defective meters and those in service for 20 years. Providing temporary water services through hydrant meter connections for construction activities like dust control and landscaping.

### **Program Highlights**

Two thousand three hundred twenty (2,320) total work orders issued for Operations Division in FY22. Of the 2,320 work orders, 2,149 are either fully or partially closed. Works included vehicle maintenance and repair; hydrant maintenance and repair; Hawai'i One Call requests for markings; transmission/distribution/main line and appurtenances leak repair and maintenance; electrical and electronics repair and maintenance at remote terminal units, tank sites, deep well sites, and booster pump sites; grounds keeping at remote sites; repair and maintenance of access roads and driveways at remote sites; remote buildings and structures repair and maintenance; disinfection/chlorination equipment repair and maintenance; water meters installation, repair and replacement.

In addition to the daily activity of operating, maintaining, repairing DOW's fleet, water distribution network, water storage facilities, and water producing sources, Operations Division procured and administered fifteen (15) goods & services, professional services, maintenance services, and construction contracts.

Operations Division personnel performed in-house construction, repair, maintenance of remote site access roadways and structures.

Operations personnel provided non-information technology repair and maintenance support to DOW co-workers. Operations personnel are also working with the Department of Human Resources along with DOW Fiscal Division representative(s) on the preparations to launch Workday.

### **a. Field Operations Section Statistics**

- Various leak repairs (laterals, transmission, and distribution lines) ..... 370
  - Meters and appurtenances..... 788
  - Live Taps..... 4
  - Waterline Shutdowns due to contractor tie-in..... 4
  - One Call Center Tickets (requests for markings) ..... 361
  - Hydrant Maintenance and Inspection ..... 469
1. Field crew responded to various calls for service related to reports of leaks, low water pressure, discolored water, no water, and other customer reported water emergencies. Performed valve and hydrant repair and maintenance.
  2. Water Service Investigators responded to requests for leak locating, and Hawaii One Call requests for pipeline locating and marking.
  3. Meter Mechanics responded to reports and requests to replace meters and verify meter accuracy.

**b. Plant Operations Section**

Water Produced from water systems operated by DOW in million gallons (MG):

- Kekaha-Waimea 479.127 MG
- 'Ele'ele-Hanapēpē 282.849 MG
- Kalāheo-Po'ipū 1,412.418 MG
- Puhi-Kapa'a 3,082.322MG
- Anahola 101.481 MG
- Kīlauea 277.976 MG
- Hanalei 72.692 MG
- Wainiha-Hā'ena 52.525 MG

Water imported from private water systems in Million Gallons (MG):

- Puhi-Kapa'a 731.115 MG
- 'Anini 19.954 MG
- Kīlauea 0.890 MG
- Hanalei 0.750 MG

1. Auto mechanics performed routine troubleshooting and repairs as well as preventive maintenance of vehicles and equipment.
2. Electricians performed electrical routine troubleshooting and repairs at various island wide remote sites.
3. Water Plant Operators performed routine maintenance of all remote sites as well as maintenance of pumps and motors. Water Plant Operators performed routine daily check of island-wide water disinfection and storage systems.

4. Construction, Welding, Maintenance Workers performed routine construction, repair, maintenance works at island wide remote facilities.

**c. Administrative Section (PROPOSED SECTION)**

1. Sodium Hypochlorite on-site generation project at Kapilimao Well Site, contract executed. Installation complete.
2. Submitted the Water Audits for calendar year 2021 to Commission on Water Resources Management (CWRM) in compliance with Act 169 - Water Audit Law. Water audits were completed of each of the following water systems:

Kekaha-Waimea  
Hanapēpē-'Ele'ele  
Kalāheo-Kōloa-Po'ipū  
Puhi-Līhu'e-Hanamā'ulu-Wailua-Kapa'a  
Anahola  
'Anini  
Kīlauea  
Hanalei  
Wainiha-Hā'ena

**3. Training Classes:**

Operations have completed the following training courses:

- Forklift Certification Training
- Distribution System Operator Exam Review
- Respiratory Safety Training and Fit Test
- Flagger Certification
- Drivers Improvement Class
- CPR/First Aid
- Effective Communication
- Asbestos Awareness
- Excavation, Trenching, Pipe Safety
- Supervisory Training on Drug and Alcohol Reasonable Suspicion

**4. FISCAL DIVISION**

**Program Description:**

The Fiscal Division is responsible for planning and directing financial activities and administering the fiscal programs and customer activities of the Department. This includes revenue and cash management, project cost accounting, payroll, leave records, accounts payable, utility plant accounting, meter reading, consumer billing and accounting, preparation of financial and statistical reports, conducting internal

audits, facilitating financial and statistical studies for reports and rate making, preparation of financial statements for yearly audit, and assisting the Manager in the development of the annual fiscal year budget.

The Fiscal Division is administered by the Waterworks Controller with an Assistant Waterworks Controller.

*Staff in Fiscal ending June 30, 2021: 19*

*Staff in Fiscal ending June 30, 2022: 19*

**Program Objectives:**

- a. Administer the affairs of the Fiscal Division and all programs assigned to it.
- b. Preserve the financial integrity of the DOW through internal control and annual financial audits.
- c. Generate a return of investments and to insure deposits with financial institutions are fully collateralized.
- d. Monitor the availability of funds to meet cash flow requirements.
- e. Responsible for the preparation of financial and budgetary reports monthly and annually.

There are two sections in fiscal division: Accounting and Billing sections.

**Accounting:**

The Accounting section is managed and supervised by an Accountant IV with a staff of four (4) Accountants, each maintaining one or two primary functions in the field of accounting and one (1) Account Clerk supporting the staff with the following primary functions.

- General Ledger
  - Cash & Investments
  - Payroll
  - Purchasing & Accounts Payable
  - Debt management
  - Fixed Assets
  - Project Cost Accounting & Work Orders
  - Operating and Capital Budgets
- a. Maintains the general ledger of accounts and financial accounting system with the use of Microsoft Great Plains (GP).
  - b. Provides accurate, complete, and timely recording and reporting of all financial

- transactions and activities of the DOW.
- c. Processes the DOW's payroll in a timely manner.
  - d. Processes accounts payable and issue payments in a timely and efficient manner.
  - e. Maintains records of new and existing general plant and utility plant assets, account for depreciation and dispositions and keep track of the value of the overall changes.
  - f. Manages the DOW's Purchase Orders (PO) using Paramount Workplace' Purchase Requisition program which is integrated with GP to generate and approve PO. This integration provides a real time encumbrance report that each division head uses to manage their budget.
  - g. Performs monthly closing of the accounting system and prepares monthly reports of revenues, expenses, and variances against the approved budget.
  - h. Manages accounts payable and process invoices and payments regularly.
  - i. Manages payroll for all DOW employees; Payroll is processed twice a month through the County's AS 400 payroll system.
  - j. Maintains subsidiary accounts of fixed assets and accounting of new assets and disposals.
  - k. Maintains subsidiary ledgers of all debts, amortization, and payments.
  - l. Reconciles Cash, Cash in Bank, Cash Treasury, and Investment accounts.
  - m. Performs cost accounting for DOW & private jobs. Prepare claims for DOW job related work orders and insurance claims.
  - n. Reviews purchase requisitions for account coding and budgetary controls before processing purchase orders.
  - o. Collaborates with DOW divisions to produce documents for payroll, AP processing, project and job costing and the reconciliation of all accounts.

**Billing:**

The Billing section is managed and supervised by an Accountant IV with a staff of twelve (12) consisting of one (1) Accountant II, two (2) Customer Relations Assistants and four (4) Customer Service Representatives ("CSR") I & II, all working together to maintain a database of over 22,600 customer accounts. In addition, there are three Field Collection Clerks/Meter Readers (FCC/MR) with one supervising FCC/MR performing meter reading functions and various field activities in connection with existing water services:

- a. Maintains and reconciles records of sales and accounts receivable.
- b. Provides timely billing, collection, accounting, and deposits of customer payments for water bills and miscellaneous receipts.
- c. Process meter applications and applications for new services.
- d. Set up new customers and maintain the Customer Care and Billing ("CC&B") database.
- e. Assist customers with inquiries on their water bills including water usage and leaks.

- f. Perform monthly and as needed meter reading of the DOW’s Island wide customer.
- Water meters are read monthly, and water bills are sent out monthly.
  - Mailed in payments are processed through a lock box contract service, not by DOW staff.
  - Automatic bill payment (ABP) is available for customers to pay their water bills. This requires customers to set up their ABP at the DOW Fiscal/Billing/ Customer Service window.
  - Customer online payment is available with the use of a credit and debit card by creating an account with a username and password at the Customer Account Portal by logging in at [www.kauaiwater.org](http://www.kauaiwater.org).

**Program Highlights**

- a. The DOW provided water service to approximately 22,646 customer accounts with 22,475 of them being active accounts as of 6/30/22. The annual water billed usage totaled 4.05 billion gallons.
- b. Revenues of \$31.1 M consisted of water sales, fire hydrants maintenance and miscellaneous non-water revenue. Water sales revenues for FY22 amounted to \$ 28.5M.
- c. Capital contributions of \$1.7M consisted of state grants, conveyances and FRC collections from new waterline connections.
- d. Debt service repayment of principal was a total of \$5.2 and interest payment of \$2.7 M.
- e. Bulk water purchases were a total of \$1.8 M, hydrant maintenance of \$2.2M, and pumping costs – electricity was \$2.8M.

	FY22	FY21	FY20	FY19
Service Connections Active	22,475	22,400	22,356	22,196
Water sales revenues (Billion gallons)	4.05	3.52	3.75	3.92
Water sales revenues (\$ Million)	28.5	25.3	26.7	29.9
Revenues (\$ Million)	31.1	27.7	30	30.3

A summary of changes in the physical assets of the DOW is attached



Kauai County - Department of Water  
June 30, 2022

Utility Plant Additions

Date	Job / Work Order	Description	Asset	Amount
06/30/22	Conveyance	Kukuiula Development Company LLC	Transmission & Distribution Mains	65,000.00
06/30/22	Conveyance	Kukuiula Development Company LLC	Transmission & Distribution Mains	53,906.00
06/30/22	Conveyance	County of Kauai	Transmission & Distribution Mains	271,769.42
06/30/22	Conveyance	Kukuiula Development Company LLC	Transmission & Distribution Mains	131,665.00
06/30/22	Conveyance	Waimea Huakai Land LLC	Transmission & Distribution Mains	162,480.00
06/30/22	Conveyance	Puu Land LLC	Transmission & Distribution Mains	14,780.95
06/30/22	Job 15-07	Hanapepe Eleele Connecting Pipeline	Transmission & Distribution Mains	9,480,744.53
			<b>Transmission &amp; Distribution Mains</b>	<b>10,180,345.90</b>
06/30/22	Job 15-07	Hanapepe Eleele Connecting Pipeline		622,825.33
			<b>Pumping</b>	<b>622,825.33</b>
06/30/22	Job 15-07	Hanapepe Eleele Connecting Pipeline		21,030.21
06/30/22		Hypochlorite System		111,518.00
			<b>Purification</b>	<b>132,548.21</b>
06/30/22	Conveyance	Sharon Gonzalez Trustee of the Sharon Gonzalez Living Trust	Single Service Laterals	19,852.00
06/30/22	Conveyance	Kealakaa Partners LLC	Single Service Laterals	13,300.00
06/30/22	Conveyance	Kukuiula Development Company LLC	Single Service Laterals	33,333.32
06/30/22	Conveyance	Kukuiula Development Company LLC	Double Service Laterals	16,666.68
06/30/22	Conveyance	Clarence J Domdama Revocable Living Trust	Single Service Lateral	7,900.00
06/30/22	Conveyance	Kukuiula Development Company LLC	Single Service Lateral	16,528.00
06/30/22	Conveyance	Kainani Villas, LLC Kukuiula Residential Development LLC	Single Service Lateral	25,000.00
06/30/22	Conveyance	Kainani Villas, LLC Kukuiula Residential Development LLC	Double Service Laterals	6,800.00
06/30/22	Conveyance	Mike H Zaidlin	Single Service Lateral	30,243.45
06/30/22	Conveyance	Timothy Bror Beckman	Single Service Lateral	23,232.45
06/30/22	Conveyance	Kukuiula Development Company LLC	Single Service Lateral	12,396.00
06/30/22	Conveyance	Kukuiula Development Company LLC	Double Service Laterals	25,108.00
06/30/22	Conveyance	Waimea Huakai Land LLC	Single Service Lateral	52,509.00
06/30/22	Conveyance	Waimea Huakai Land LLC	Double Service Laterals	10,591.00
06/30/22	Conveyance	Waimea Huakai Land LLC	Triple Service Laterals	2,975.00
06/30/22	Conveyance	Puu Land LLC	Double Service Laterals	16,695.00
06/30/22	Conveyance	Eleele Associates LLC (McDonald's)	Single Service Lateral	8,000.00
06/30/22	Job 15-07	Hanapepe Eleele Connecting Pipeline	Various	541,780.73
06/30/22	Work Orders	Replacement Service Laterals	Various	106,666.43
06/30/22	Work Orders	New Service Laterals	Various	48,012.57
			<b>Service Laterals</b>	<b>1,017,589.63</b>
06/30/22	Work Orders	New Meter Installations	Meters	41,242.61
06/30/22	Work Orders	Meter Replacements	Meters	3,962.72
06/30/22	Job 15-07	Hanapepe Eleele Connecting Pipeline	Various	28,829.80
			<b>Meters</b>	<b>74,035.13</b>
06/30/22	Conveyance	Kukuiula Development Company LLC	Hydrants	33,200.00
06/30/22	Conveyance	Kukuiula Development Company LLC	Hydrants	13,531.00
06/30/22	Conveyance	Kainani Villas, LLC Kukuiula Residential Development LLC	Hydrants	64,350.00
06/30/22	Conveyance	Kukuiula Development Company LLC	Hydrants	30,550.00
06/30/22	Conveyance	Waimea Huakai Land LLC	Hydrants	31,291.00
06/30/22	Job 15-07	Hanapepe Eleele Connecting Pipeline	Various	148,034.78
06/30/22	Work Orders	Replacement Hydrants	Hydrants	46,261.15
			<b>Hydrants</b>	<b>367,217.93</b>
			<b>Total Utility Plant Additions</b>	<b>12,394,562.13</b>

Kauai County - Department of Water

June 30, 2022

General Plant Additions

Date	Description	Vendor	Cost
09/08/21	Dell Computer Laptop XPS 15 7590	Dell Computer	\$1,719.87
09/08/21	Dell Computer Laptop XPS 13 7390	Dell Computer	\$1,271.15
09/08/21	Dell Computer Laptop XPS 15 9500	Dell Computer	\$1,854.25
10/14/21	Dell Computer Laptop XPS 15 9500	Dell Computer	\$2,362.24
10/14/21	Dell Computer Laptop XPS 15 9500	Dell Computer	\$2,362.24
10/14/21	Dell Computer Laptop XPS 15 9500	Dell Computer	\$1,909.43
10/14/21	(4) Dell Latitude 5420Rugged, CTO	Dell Computer	\$11,451.09
03/31/22	(4) Dell Latitudes	Dell Computer	\$7,730.59
06/23/22	(11) Dell Computer Optilex Micros	Dell Computer	\$12,647.68
		<b>Computer Hardware</b>	<b>43,308.55</b>
05/01/22	Sewage Lift Station	American Electric	6,442.00
		<b>Structures &amp; Improvements - General Plant</b>	<b>6,442.00</b>
02/28/22	Kubota Skidsteer Serial #KBCZ063CLL1L54146	Bacon International	73,600.00
06/16/22	Takeuchi TL10V2CRH Loader Serial # 410005716	Allied Machinery	72,670.13
		<b>Power Equipment</b>	<b>146,270.13</b>
11/01/21	vLoc3-Pro Utility Locator	Wong's Equipment	5,640.84
12/01/21	Acoustic Leak Detector plus accessories	Wong's Equipment	7,083.77
		<b>Tools</b>	<b>12,724.61</b>
10/22/21	Battery for Nissan Leaf	Kuhio Auto Group	\$11,009.97
		<b>Transportation Equipment</b>	<b>11,009.97</b>
		<b>Total General Plant Additions</b>	<b>219,755.26</b>

**Kauai County - Department of Water  
June 30, 2022  
Retirements and Abandonments**

Asset Description	Asset ID	Quantity	Cost Basis
<b>Capital Leases</b>			
Dell Precision T5500	ITLSE2013	22	\$3,559.41
Dell Optiplex 380	ITLSE2013	23	\$13,594.97
Dell Precision 3610	ITLSE2014	3	\$4,879.71
Dell Optiplex 3020	ITLSE2015	1	\$1,256.58
Dell Optiplex 3020	ITLSE2015	2	\$1,256.58
Dell Optiplex 3020	ITLSE2015	3	\$1,256.58
Dell Optiplex 3021	ITLSE2015	4	\$1,256.58
Dell Optiplex 3240	ITLSE2015	6	\$1,256.58
<b>Property under capital lease</b>			<b>\$28,316.99</b>
<b>General Plant</b>			
LaserJet 4700dn	HARD2006	1	\$2,840.24
3COM Switch	HARD2002	3	\$1,029.50
Dell Optiplex 3040	HARD2018	6	\$982.53
Dell Optiplex 3240	HARD2018	2	\$1,129.78
Dell Optiplex 3240	HARD2018	3	\$3,202.49
Dell Optiplex 3240	HARD2018	5	\$2,362.01
Dell Optiplex 5250	HARD2018	1	\$2,828.76
Dell Optiplex 5250	HARD2019	3	\$13,486.16
Dell Optiplex 5260	HARD2019	1	\$3,285.54
<b>Hardware</b>			<b>\$31,147.01</b>
Catalyst 3550 Series Switch	COMMEQP2012	1	\$20,005.44
RPS Router	COMMEQP2012	2	\$37,509.27
RPS Redundant Power Supply	COMMEQP2013	1	\$20,005.44
<b>Communication Equipment</b>			<b>\$77,520.15</b>
<b>Total General Plant</b>			<b>\$108,667.16</b>
<b>Meters</b>			
8 replacement meters	<b>Meters</b>		<b>\$2,747.44</b>
<b>Hydrants</b>			
Replace Hydrant 01-HYD-A-054 Kekaha Garden Subdi	C211109		\$919.07
Replace Hydrant 09-HYD-N-098 Hekili Rd	C211300		\$958.93
Replace Hydrant 06-HYD-I-074 Poipu Rd	C211438		\$912.80
Replace Hydrant 02-HYD-B-007 Ala Wai Rd	C211543		\$3,282.70
Replace Hydrant 02-HYD-B-008 Ala Wai Rd	C211544		\$3,138.50
Replace Hydrant 03-HYD-C-012R Ala Wai Rd	C211638		\$4,829.62
Replace Hydrant 12-HYD-X-022 Kilauea Lighthouse Rd	C220977		\$1,791.07
<b>Hydrants</b>			<b>\$15,832.69</b>
<b>Service Laterals</b>			
3599, 3607 Wailani Rd	C211061		\$2,477.36
5-5358 Kuhio Hwy	C211613		\$1,105.30
3571 Mokihana St.	C211653		\$535.47
1463 Hono Ohala Pl	C211658		\$589.31
1464 Hono Ohala Pl.	C211659		\$418.48
5450 Kawaihau Rd	C211151		\$1,507.09
4911 Nonou Rd	C211202		\$2,629.26
4605 Pualei St	C211264		\$1,412.14

Kamalu Rd	C211286		\$1,848.30
5850 Haaheo St	C211361		\$1,032.19
Intersection of Koloa Rd and Poipu Rd	C211429		\$944.01
8570 Kekaha Rd	C211454		\$875.70
3161 Lauoho Rd	C211541		\$1,121.43
4519 Puna Rd	C211542		\$895.36
5-5501 Kuhio Hwy	C211682		\$1,826.51
5345 Kula Mau'u Rd	C211709		\$1,601.77
9531 Haina Rd	C211719		\$480.80
3523 Uwao St	C211733		\$1,092.67
Pali Momi Pl. ( Seacliff )	C211754		\$1,169.33
3540 Konale St	C211863		\$685.06
Kapaa Transfer Station	C211896		\$643.61
4660 Waimea Canyon Dr.	C220039		\$1,086.78
3116-M Hoolaok St	C220069		\$1,060.20
Hilton Wailua Bay Leho Dr.	C220141		\$820.68
3680 Anini Rd.	C220147		\$756.66
5470-5460 Kawaihau rd, kapaa	C220169		\$1,093.79
Intersection of Makana St and Po'o Rd	C220220		\$1,134.61
1241 Crossley Rd	C220408		\$1,497.24
3800 Oyama Rd.	C220537		\$821.47
8454 Kopaa Rd.	C220617		\$2,264.22
4732 Mailehune Rd	C220715		\$1,837.13
4155 Noho Rd	C220716		\$601.14
5317 Kawaihau Rd	C220747		\$1,405.53
3170 Hikina Rd.	C220811		\$853.88
5288 Malolo Pl	C220887		\$1,179.81
5008c Puuwai Rd	C220925		\$1,117.47
1786/1780 Haleukana Rd	C220928		\$1,312.09
9497 Keolawa St.	C220939		\$1,958.09
3189 Hikina Rd	C220981		\$1,021.39
3780 Akea Rd	C221107		\$1,520.79
4232 Puu Pinao Rd.	C221168		\$1,149.41
5906 Ahakea St	C221169		\$2,115.69
4291 Kai	C221248		\$967.43
		<b>Service Laterals</b>	<b>\$52,466.65</b>
		<b>Total Utility Plant</b>	<b>\$71,046.78</b>
<b>Total Retirements and Abandonments</b>			<b>\$208,030.93</b>







# DOW Annual Report FY21-22 (09-06-22)

Final Audit Report

2022-09-12

Created:	2022-09-12
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