#### MINUTES

## WORKSHOP MEETING OF THE BOARD OF WATER SUPPLY

May 13, 2019

At 2:00 PM on May 13, 2019 in the Board Room of the Public Service Building at 630 South Beretania Street, Honolulu, Hawaii, Board Chair Andaya called to order the Workshop Meeting to Discuss the Proposed FY 2019-2020 Operating and Capital Improvement Program Budget.

Present:

Bryan P. Andaya, Board Chair

Kapua Sproat, Vice Chair

Ray C. Soon Jade T. Butay Ross S. Sasamura Kay C. Matsui

Also Present:

Ernest Lau, Manager and Chief Engineer

Ellen Kitamura, Deputy Manager and Chief Engineer

Robert Morita Stuart Wong Michele Thomas Jason Takaki Joe Cooper

Kathleen Elliott-Pahinui

Barry Usagawa
Marc Chun
Erwin Kawata
Mike Matsuo
Mike Fuke
Jennifer Elflein
Henderson Nuuhiwa

Kevin Ihu

Leanne Matsumoto Jadine Urasaki Kathy Mitchell

Sandy Nahoopii-Soong

Patrick Chun Dominic Dias Lester Fujikami

Others Present:

Jeff Lau, Deputy Corporation Counsel

Christine Harris, CDM Smith

Absent:

Max J. Sword

#### ITEM FOR INFORMATION NO. 1

Chair Andaya recognized Robert Morita, Executive Assistant, Executive Support Office, who will be conducting this workshop meeting on the proposed Fiscal Year 2019-2020 Operating and Capital Improvement Program (CIP) budget.

Mr. Morita explained that the purpose of this workshop meeting is to present the proposed Operating and CIP budget and allow the Board as well as BWS staff the opportunity to ask in-depth questions on the proposed budget. Responses to any outstanding questions from today's workshop will be provided at the next board meeting, scheduled for May 28, 2019.

Mr. Morita started his presentation by comparing the FY 2019 (Fiscal Year 2018-2019) budget to the FY 2020 (Fiscal Year 2019-2020) budget. The Operating budget for FY 2020 increases by \$18.1 million or about 9.7%. The CIP budget increases by \$27.8 million or about 20.1%. Mr. Morita explained that the increases are consistent with the BWS Long Range Financial Plan and the Water Master Plan which were adopted by the Board in March 2018 and October 2016, respectively.

To help finance the capital improvements budgeted in FY 2020, Mr. Morita stated that BWS is planning to issue revenue bonds. This is the first time since FY 2006 that BWS will be issuing bonds for new funds. In the FY 2012 and FY 2014, BWS issued bonds to refund higher interest rate bonds to take advantage of lower interest rates.

Mr. Morita continued that the bond issue will be for \$150 million to cover the needs for two fiscal years and will be brought before the Board for approval.

Mr. Morita stated that BWS is anticipating an increase of about \$7 million in revenues compared to FY 2019. The majority of the revenues will come from ratepayers from water consumption. The operating expenditures is expected to increase by about \$18.1 million.

Mr. Morita explained the budgeting process of carrying forward the ending balance from FY 2019 to FY 2020. At the end of FY 2019, the ending balance will be \$69.7 million and the projected ending balance for FY 2020 will be approximately \$33.6 million. For the past two to three years, BWS has been trying to align spending closer with the actual budget. When the budget is brought before the Board, a concerted effort is made to ensure that the budgets are executed as planned, and the Board is aware of what they are authorizing.

Mr. Morita stated that the budget is in line with financial policies previously adopted by the Board. Mr. Morita covered two policies, the debt service coverage ratio and the working capital account. BWS must maintain at least 1.6 times the annual debt service in the budget. BWS must also maintain 60 to 180 days of working capital.

Mr. Morita continued the budget presentation by describing the anticipated Operating and CIP program expenditures, highlighting operating expenses in the major categories – personnel services; materials, services and supplies; equipment; and fixed charges.

Before going on to the CIP budget presentation, Mr. Morita asked if there were any questions.

Board Member Ross Sasamura asked about the salaries and the current percentage of vacant positions. Mr. Morita deferred to Michele Thomas, Executive Assistant, Human Resources Office, to respond. Ms. Thomas stated that the approximate percentage is 18% to 20%.

Manager Lau added that the percentage is based on about 100 positions and Ms. Thomas concurred.

Mr. Sasamura then asked about long-term expectations since the fluctuation of employees leaving and new employees being hired appear to be relatively constant.

Mr. Lau stated that two things are reflective of those percentages. First, are the employees that stay because they want to work here. Second, is our aging workforce. Currently, BWS has a large number of employees who are able to retire. In the next five years or so, the number will increase. Mr. Lau stated that BWS will be facing some challenges in the future and believed that the Department of Facilities Maintenance (DFM) is experiencing the same challenges.

Mr. Sasamura stated that their vacancies are double of BWS and that there will be attrition, largely due to retirements of the eligible employees. He commented that the process is possibly being taxed in delivering the quantity of people that are needed.

Mr. Lau commended the BWS Human Resources Office and the City Department of Human Resources (DHR) for continuing to work hard to fill the vacancies. However, the current approach to recruit and fill vacancies will continue to face challenges. BWS will need to be innovative to compete with private sector as well as the Federal government, the primary employers of engineers and other professionals.

Mr. Lau indicated that Board Member Jade Butay, who is with the Department of Transportation (DOT), is piloting an innovative way to recruit and fill vacancies. Mr. Butay replied that DOT is doing "wiki-wiki" to get applicant lists faster for positions that are unique to DOT.

Mr. Lau stated that he shared a flyer describing the DOT program with DHR and indicated that BWS would be willing to participate in a pilot program.

Mr. Lau added that the University of Hawaii had a graduation ceremony this Saturday and the College of Engineering held a separate ceremony. Mr. Lau understood there were approximately 60 students graduating in civil engineering, over 100 students graduating in mechanical engineering and close to 100 students graduating in electrical engineering. This was encouraging since more graduating engineers will help fill the void left by retirees.

Mr. Lau reiterated the need to be more innovative, perhaps, starting at the State level by changing the civil service laws to allow more flexibility in hiring and retention practices. He added that the Legislature should be careful when dealing with post-employment benefits (retirement and health). It is hard to be competitive with the current salaries. The benefits of health and retirement have been eroding at the State level. The competitive edge is being lost in the public sector because the private sector offers better salaries. If the benefits continue to decline, it could trigger a mass exodus from government employment.

Board Member Ray Soon noted that the personnel costs did not change between FY 2019 and FY 2020 which limits funding for additional positions. His concern is that staffing levels should continue to grow to keep up with the increased CIP and the plans to accelerate the repair and replacement program.

Mr. Lau concurred that at the current time BWS is not keeping up with recruitment, and in time, the gap will grow larger. The low unemployment rate in Hawaii is making it difficult to find good people to fill the vacancies. With the legislative session just ending, there are six months to

develop recommendations for the next legislative session. It would be important to approach key committees at the Legislature before January 2020.

Mr. Soon suggested that services may need to be delivered in a different way such as increasing use of private contractors.

Mr. Lau suggested that perhaps department directors could work together and propose legislative changes to address our recruitment and retention challenges.

Mr. Lau announced that Ms. Thomas will be attending the Society of Human Resources Management conference on the mainland. Mr. Lau believes that the Department's challenges are not unique, and that Ms. Thomas could bring back ideas to consider. HRO has been tasked to develop a succession plan or strategy for consideration by the Board. In addition, BWS will explore legislative actions. The bottom line is that BWS must provide safe and dependable water service to the community even with the challenges facing the Department. Mr. Lau welcomed other ideas.

Ms. Thomas added that another reason why the personnel services budget has not changed is because the Department is being realistic as to the filling of vacancies based on the current recruitment process.

Mr. Lau concurred that some positions were partially funded. The purpose is not to tie up monies in the personnel services budget and use funds for other programs such as the CIP.

Mr. Soon commented that he appreciated seeing the carryover funds going down in the forecast. He agrees that BWS should not be holding money and is making more efficient use of the funds collected from the ratepayers.

In addition, Mr. Soon questioned the expenditures in the presentation. He noted that in the past expenditures were about 80% to 85% of the budgeted amount, but last year, it was at 90%. Mr. Soon wondered why the carryover is going up instead of going down. Mr. Morita answered that it was the effect of right-sizing the budgets over the past few years that lead to a reduction of unspent funds.

Mr. Soon had another question about the \$2 million budgeted for vulnerability risk assessment. Mr. Lau responded that a Federal law referred to as the America's Water Infrastructure Act of 2018 was passed requiring community water systems such as the Board of Water Supply meet requirements set by the law by March 2020.

The United States Environmental Protection Agency, EPA will provide guidance in August 2019. Between August 2019 and March 2020, BWS will have a very tight timeline to complete the assessment for self-certification to the EPA indicating that BWS is in compliance with the requirements.

Mr. Soon asked if the requirements are regarding delivery of the quality of water. Mr. Lau explained that the requirements are related to natural disaster, malicious acts to contaminate, etc.

Mr. Lau continued that after 9/11 in 2002, the Bioterrorism Act of 2002 included resiliency from natural disasters like hurricanes. Provisions for cybersecurity is also a requirement due to the trend in increasing cyber-attacks, especially on utility control systems and hacking into the utility computers systems.

Mr. Soon asked if the requirements included the effects of sea level rise on our systems. Mr. Lau responded that it may be included in the future. Financial resiliency is also being reviewed. The plans will have to be updated. The Department of Health is not involved. BWS will be working directly with the EPA. The current plan is to complete the assessment and self-certify by March 2020 for all eight BWS water systems.

Mr. Lau commented that another area under consideration is source water protection. He believed that the Department of Health will be deferring this requirement to the counties.

Mr. Soon thanked everyone for answering his questions.

Mr. Soon stated that his primary concern is the protection of the water systems against long-term effects such as sea level rise and climate change. We will be seeing more hurricanes in the Pacific. Mr. Lau acknowledged and agreed with Mr. Soon's concerns.

Mr. Soon stated an additional concern is the delivery of water service if the power goes down. Mr. Lau agreed and indicated that BWS is completing a research project on climate resiliency with the Water Research Foundation which is funded 50/50 by BWS and the Water Research Foundation. He suggested that this be a topic for a future Board meeting to update the Board on the Department's effort to address climate resiliency.

Board Member Jade Butay commented that the last time BWS issued revenue bonds for new funds was in FY 2006 and inquired about the amount of the Department's outstanding debt.

Mr. Lau answered that in 2012 and 2014, BWS refinanced existing debt to lower interest rates and created savings.

Mr. Butay then asked what would be the increase in debt with the proposed issuance of \$150 million in revenue bonds.

Mr. Lau deferred to Joseph Cooper, Waterworks Controller, Finance Division, to respond. Mr. Cooper did not have the estimated debt service for the \$150 million. He continued that the additional debt would not be incurred until the following year because the bonds would be issued in the third or fourth quarter of FY 2020. The actual debt service would not start until FY 2021. Mr. Cooper added that when BWS puts forth the bond resolution an additional bonds test is performed to calculate the expected debt service and debt service coverage ratio. This is done to give the bond holders assurance that the BWS has adequate revenues to cover the debt service.

Mr. Lau remarked that at the Public Hearing later this month BWS will provide the estimated debt service for the proposed \$150 million bond issue.

Mr. Butay inquired about the balance of bonds issued currently.

Mr. Lau responded that for the 2006 bond issue there might be about \$200 million still outstanding and indicated that BWS will also report this amount at the Public Hearing.

Chair Brian Andaya noted that for FY 2020, the Operating budget increased to \$204 million from \$186 million and moving forward to FY 2021, does the Department foresee a continuing declining trend in the operating budget or will there be an increase?

Mr. Morita indicated that this is difficult to project since large projects, studies or operational changes can affect the budget. Mr. Morita added that at this time they are not aware of any

large-scale operating costs that would continue to increase over time. He noted one item – the \$1.5 million increase in emergency road repairs and paving projects. This expense has increased substantially over the last four budgets from \$6 million to current budget of \$8.5 million. The increase is not due to more main breaks requiring more paving but increasing contractor costs to perform the emergency work. This is an example of expenses that are out of the control of BWS.

In addition, the Department's contribution to the Retirement System is also outside the control of BWS as well as electricity costs.

Mr. Morita assured the Board Members that the budget is reviewed thoroughly to make every effort to try and minimize any increases that happens going forward.

Mr. Lau added that if oil becomes an issue globally and oil prices start to go back up, it will affect the power costs. Oil also affects other material costs.

Mr. Andaya referred back to recruitment and personnel issues. He suggested that a working group or committee be formed to assist the Department. This should be an agenda item at a future Board meeting. Mr. Andaya is concerned that the staffing challenges will continue if changes in the recruitment and hiring process is not implemented and strongly recommended taking a deeper dive into this issue.

Mr. Lau suggested that perhaps DHR and the State Department of Human Resources Development (DHRD) can provide a briefing for the Board. Both these agencies are responsible programs and processes affecting personnel and function under the same State law governing the Civil Service Regulations.

Mr. Soon commented he does not have a problem with making investments into research and development in fixing the personnel issues as long as there is a long-term gain.

Mr. Morita appreciated Mr. Soon's comments.

Since there were no further questions, Mr. Morita introduced Jason Takaki, Program Administrator, Capital Projects Division, to do his presentation on the Capital Improvement Projects (CIP) budget.

Mr. Takaki started with the purpose of the CIP. The CIP is the Department's most significant annual undertaking. In accordance with the Water Master Plan, CIP addresses the immediate needs of the water system, the needs for continuous delivery of water, and the safe and efficient operation of our facilities. This year's program is crafted around the BWS's vision and mission of Water for Life – safe, dependable, and affordable water, now and into the future. It is aligned with the Department's strategic plan, the goals and objectives of the Divisions in support of that plan, and the BWS's six-year long-range CIP.

Mr. Takaki reported that this year's \$166.3 million capital improvement program carefully balances the requirements of ensuring safe and dependable water delivery with cost-effective resource allocation. As in previous years, the organization of the CIP is unchanged. Research and development explores new resources and provides for system improvement needs. \$6.25 million is proposed in this category. Renewal and replacement addresses the needs of the existing water infrastructure. \$115.9 million is proposed in this category. Finally, the third project category is capacity expansion for water supply facilities. \$21.8 million is proposed for these projects.

Mr. Takaki described the various funding sources that would be utilized for the projects — Operating funds, low interest loans from the Department of Health Safe Drinking Water State Revolving Fund (SRF), Special Expenditure Fund and from the planned bond issuance.

Mr. Takaki continued his presentation by highlighting major projects in each category.

At the end of his presentation, Mr. Takaki stated that the Division Heads and Staff Officers are available to answer any questions in greater detail on any project that is of particular interest.

Mr. Andaya asked about the renewal and replacement of pipeline and what goes into the selection of which ones to replace.

Mr. Takaki responded that as part of the Water Master Plan, an extensive condition assessment was completed which included a very close accounting of water main breaks over the last 40 years. Computer programs utilize the main break history built on top of our award-winning geographic information system to identify areas for replacement based on history, pipe material, soil conditions, and other factors. In addition, they look at fire protection improvements and if coordination is possible with other City or State agencies.

Mr. Andaya asked for clarification on the 13.3 miles currently under construction.

Mr. Takaki responded this is for active construction only. It does not include what was awarded last fiscal year, because those projects are just getting started. There are also those projects being awarded this fiscal year. A lot is out to bid, currently about \$40 million worth of projects are bidding. This year's target will add seven miles more.

Main replacement will increase every year. The amount of active construction is going to continue to increase until we are up to 21 miles, from then it will be 21 miles every year. Once it reaches that level, it will stabilize but it is going to mean a lot of roadwork

Vice Chair Kapua Sproat added that she is very interested in the necessary adaptation, planning and other implementation measures that are going to be necessary for climate resiliency, in particular, future CIP planning. What will the cost be and what are short- and long-term outcome?

Mr. Lau suggested bringing in guest speakers like Chip Fletcher or Tom Giambelluca and allocating forty-five minutes to one hour or longer for their presentation.

Ms. Sproat concurred that it would a good idea to bring in Mr. Fletcher and Mr. Giambelluca since she is familiar with their work. She is interested in hearing from the Board what implications Mr. Fletcher's and Mr. Giambelluca's work have for BWS, both in short-term and long-term. What will it mean to BWS dollar-wise as far as planning and what we are going to need to implement to help build resiliency.

Mr. Lau asked Barry Usagawa, Program Administrator, Water Resources Division, to give an update on the Water Research Foundation project which is nearing completion and will be published soon.

Mr. Lau shared that in addition to the Water Research Foundation that they started to participate with, they will also be participating as part of the Water Utility Climate Alliance (WUCA) which was organized in the 2000's. They will be part of the network of utilities across the country to share

challenges, ideas, and solutions on how to address the issues of what climate change is going to create that will impact on utilities, resources and customers.

Mr. Usagawa reported on their participation with the Water Research Foundation (WRF). Two years ago they partnered with the Water Research Foundation on a jointly funded Tailored Collaboration study on climate vulnerability of both the water supply as well as the coastal infrastructure to increase resilience for projected climate change to 2100. They presented the study to the City Climate Commission and received feedback. University of Hawaii has two rainfall predictions of 2100 using two different climate models – one is dry and one is wet.

According to Mr. Usagawa, in the wet future where Windward and Honolulu would get wetter, with minimal changes for the rest of the island, so there would be no change to our long-range plan of watershed management, conservation and diversifying our water supplies. However, the dry future is significantly drier, especially in Leeward Oahu. Reduced rainfall could result in aquifer sustainable yields as much as 30% less, primarily in Leeward but also through Pearl Harbor and Honolulu. Aquifer reductions of that magnitude will require aggressive actions with the goal to reduce per capita water demand from 155 gal/capita day to 100 gal/capita day. This is possible because cities in the Southwest United States and in Australia are at or even below this level.

The WRF study identified a series of advanced water conservation strategies such as new plumbing codes to reduce water demand and we will continue to invest in watershed partnership programs to ensure that the Koolau and Waianae forests are healthy enough to capture more of the rainfall to recharge aquifers.

Plans to diversify our water supply systems to add more ground water wells in Central Oahu, expand recycled water and add desalination have been developed in the Water Master Plan. Currently, we are adding four million gallons of source capacity at the Honouliuli recycled water treatment plant with provisions to do another two once there is enough secondary effluent from the City's Honouliuli wastewater treatment plant.

Progress is ongoing for regulatory improvements and master planning to expand recycled water in Ewa. Hoopili is installing potable and recycled water pipelines in roadways as well as the City of Kapolei and surrounding areas. There is a new golf course planned in West Kapolei that will be using recycled water.

Source diversification includes desalination. We are working on a request for proposals for a two million gallon seawater desalination plant in Kalaeloa at the site that was acquired through public conveyance from the closure of the Barber's Point Naval Air Station. The design, build, operate, and maintain RFP has been ongoing for a few years. It has been quite challenging, but we continue to make progress.

There are also provisions for a brackish desalination plant at our proposed Kapolei base yard, makai of City of Kapolei. Storm water capture and reuse is also an important component such as our rain barrel rebate program, in addition to on-site nonpotable reuse for new developments.

In regards to sea level rise, BWS has contributed to climate change research by Chip Fletcher and his group who have modeled sea level rise exposure areas. The WRF study identified the hot spots from Waikiki to Mapunapuna. The current UH research project is to overlay the sea level rise maps with flood insurance rate mapping to estimate where and how high roadways and properties need to be elevated. The 100-year flood of yesterday will not be the same as the 100-year flood of tomorrow as flooding will be more intense. Coastal areas will erode affecting coastal roadways and beach homes. The Water Master Plan identified 21 bridges in the low-lying

areas that will be vulnerable to erosion with sea level rise and more intense storms. Water transmission pipes that are hung on the bridges and within coastal roadways would be vulnerable.

We are evaluating different pipe materials and coatings for pipeline replacements within the sea level rise exposure areas. The metallic pipes will corrode faster in contact with the seawater. We need to ensure that the life of those pipelines are 100 years or more and new materials such as HDPE and PVC plastic pipes, and epoxy bonded coatings on ductile iron pipelines should be able to better achieve that objective.

Mr. Usagawa continued that they are aware of areas that will be inundated from sea level rise of 3 to 6 feet. Looking ahead, the City will have to decide what roads and properties to elevate, and where storm water pumps will have to be installed.

Elevating roadways where BWS pipelines are is beyond the BWS's capability and responsibility. It would require the City and the State to collaborate. They are considering a One Water collaborative framework where responsible agencies work together on projects that have cross-sector benefits among water, storm water, wastewater, recycled water and green infrastructure and focus limited funds on critical areas.

At the end of his report, Mr. Usagawa offered that more details can be provided at a future Board presentation on climate change and sea level rise. Mr. Lau asked if there were any questions.

Mr. Soon expressed interest in the overlap of the work by Mr. Usagawa and Mr. Takaki. In deciding what pipes are to be replaced, will they be avoiding or maybe accelerating some of those critical areas that are more vulnerable?

Mr. Usagawa responded that the six-year plan and the Water Master Plan were completed under the Water Resources Division that included input from all the Divisions. Water Resources is responsible to update the Water Master Plan which drives the long-range thirty-year CIP as well as the more detailed six-year CIP. Water Resources staff maintains the pipeline prioritization model for replacement which results in the annual CIP budget that Capital Projects Division implements.

Mr. Lau thanked Mr. Usagawa and asked if there were any other questions.

Mr. Butay asked about the replacement of the pumping units and how long it would last. What is the life of the pump? Mr. Lau responded that pumps are mechanical-electrical systems and lasts for about 10 years. It involves replacing or repairing the motors and pumps.

Mr. Takaki confirmed that with the deep wells, it lasts for about 10 years or so. It also depends on the type of installation – submersible pumps are about 10 years.

Mr. Lau stated that we are also reviewing the condition of the well casing itself.

Mr. Morita summarized the budget presented at today's workshop.

The operating budget is approximately \$18.1 million over FY19. The proposed FY20 budget is \$204.4 million. The CIP budget is \$166.3 million which is \$27.8 million over FY19. If you combined the two numbers, the increase is \$45.9 million over FY19 which includes borrowed funds at this time. It is not an all cash total. The figures presented especially with the bond issue will track the effective life of some of the CIP which is intentionally so that instead of the cash

funding all the CIP all at one time, the costs is spread out to future ratepayers who will benefit from the improvements being put into place.

Mr. Lau added that they are looking closely at the long-range financial plan that the Board also adopted which was a balance of borrowing and using rate revenue or cash to fund the CIP. Mr. Lau asked if there were any further questions regarding the presentations today.

Mr. Andaya addressed the Board Members for any questions and there were none.

Mr. Lau announced that Mr. Morita will be retiring at the end of the May. This is his final budget workshop. He recognized Mr. Morita for the great job he has done during his time at the BWS.

Mr. Lau thanked the Board Members for their questions and stated that BWS will be improving the presentation for the Public Hearing on the proposed budget and address the concerns that were not addressed today.

MOTION TO ADJOURN

There being no further business, Chair Andaya at 3:15 PM called for a motion to adjourn the Workshop Meeting. Jade Butay so moved; seconded by Ross Sasamura and unanimously carried.

Respectfully submitted,

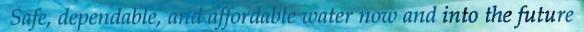
GERRENE YUKUNO

APPROVED:

BRYAN P. ANDAYA Chair of the Board MAY 2 8 2019

Date

MAY 13, 2019 WERE APP BOARD MEETING	ROVED AT	THE	MAY 28, 201!
	AYE	NO	COMMENT
BRYAN P. ANDAYA	Х		
KAPUA SPROAT	X		
KAY C. MATSUI			ABSENT
RAY C. SOON			ABSENT
MAX J. SWORD			ABSENT
ROSS S. SASAMURA	X		SERVANO DE CARRESTO VALLE.
JADE T. BUTAY	Х		







## FY 2020 Budget Workshop

Board of Water Supply May 13, 2019



# **FY 2020 Operating Budget** and Capital Improvement Program Budget



Board of Water Supply

Safe, dependable, and affordable water now and into the future

# FY 2020 Operating and Capital Improvement Program Budget Summary

Consistent sta	FY 2019 – Adopted	FY 2020 – Proposed	\$ Change	% Change
Operating Budget	\$186,290,999	\$204,390,638	\$18,099,639	9.7%
Capital Improvement Program Budget	\$138,461,000	\$166,305,000	\$27,844,000	20.1%
Total	\$324,751,999	\$370,695,638	\$45,943,639	14.1%





## FY 2020 Budget

- Operating Budget increases by \$18.1 million or 9.7% over FY 2019.
- Capital Improvement Program Budget increases by \$27.8 million or 20.1% over FY 2019.
- Consistent with the long-range financial plan, BWS intends to issue revenue bonds in the second half of FY 2020 for the first time since FY 2006.
- The bond issue is anticipated to be \$150 million for the next two fiscal years.



# Operating Fund Revenue Expenditure Summary

(millions of dollars)

	FY 2019	FY 2020	Change		
	Adopted	Proposed	\$ Mil.	%	
Revenues	\$239.2	\$246.2	\$7.0	2.9%	
Total Operating Expenditures	\$186.3	\$204.4	\$18.1	9.7%	





#### **Operating Fund Resources and Expenditures**

(millions of dollars)

	FY 2018	FY 2019 Estimated Actual		FY 2020		
	Actual			Budget		
Beginning Balance	\$ 121.3		\$ 86.6		\$ 69.7	
Revenues	234.9		241.7		246.2	
Lapses/ Adjustments	4.4		0.6		_	
Total Resources	360.6		328.9		315.9	
Operating Expenditures	171.0		157.9		204.4	
Capital Improvement Program	103.0		100.8		77.3	
Transfer to Special Ex. Fund (WSFC waivers – Affordable Housing Program)	smud Fur		0.5		0.5	
Total Expenditures	274.0	259.2		282.2		
Ending Balance	\$ 86.6	\$ 69.7 \$ 33		\$ 33.6		





## **Board Adopted Financial Policies**

#### 4.4.2 Debt Service Coverage

Per Board Resolution No. 873, 2017, the financial plan supports the BWS maintaining a minimum of 1.6x debt service coverage on total debt.

#### 4.4.3 Working Capital

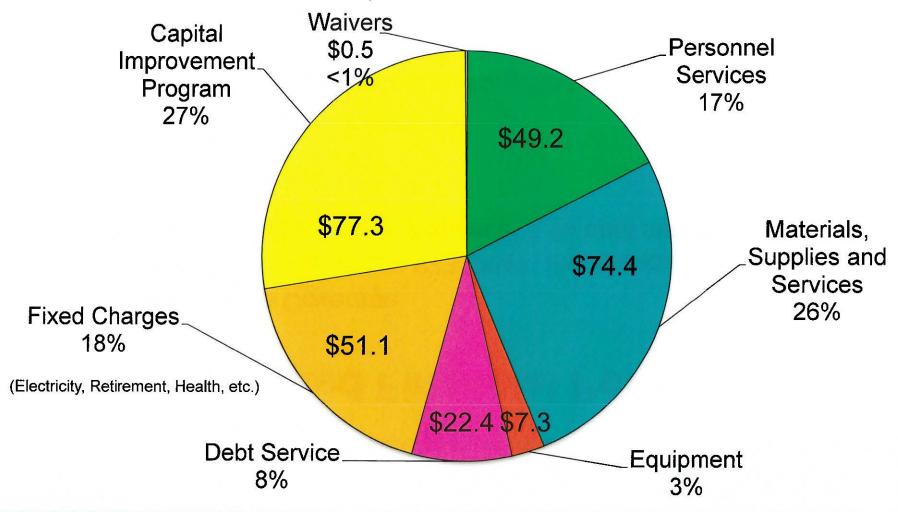
Revenue requirements include targeting 180 days of unencumbered working capital while never having less than 60 days.



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## **Operating Fund Expenditures for FY 2020**

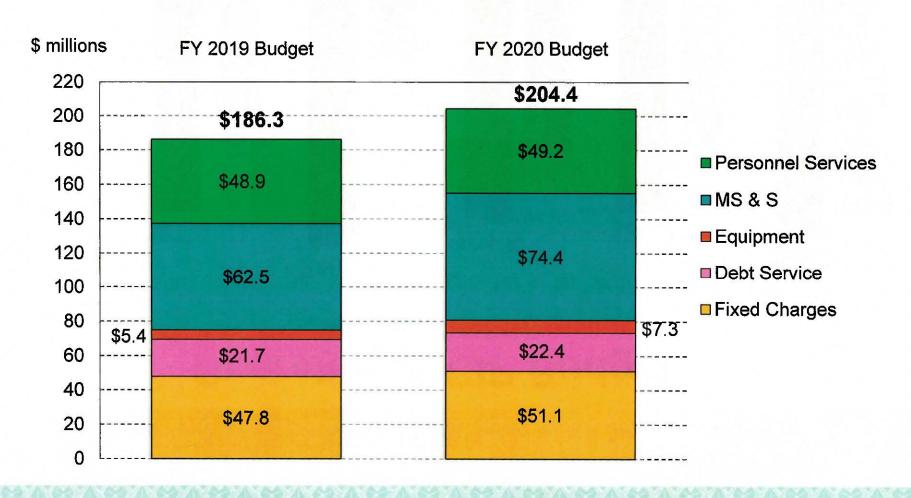








# Operating Budget Expenditures Excluding CIP

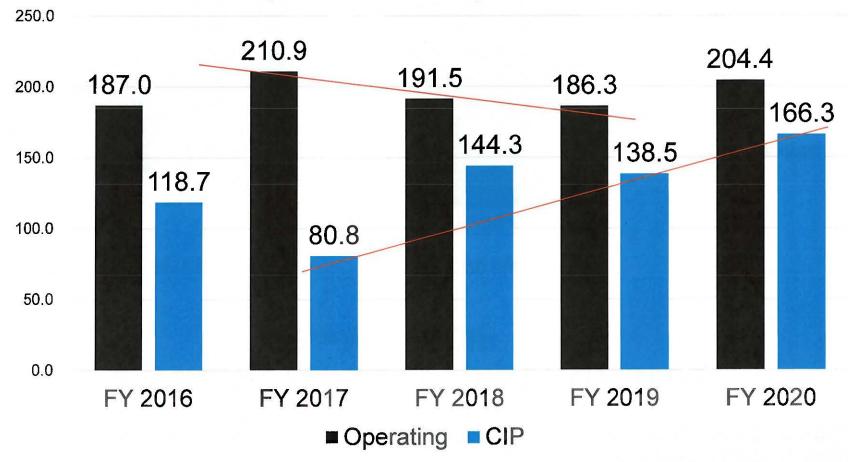




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## **Operating & CIP Budget**

(millions of dollars)







## **Highlights of the Operating Budget**

## **Operating Expenses:**

## **Salaries**

- No net increase in FTE. Remains at 741 FTE.
- \$247,000 increase in salaries or +0.5%

## Materials, Services & Supplies:

- \$2.2 million to replace an RO line for the recycled water system.
- \$2 million to conduct a TCP Advanced Treatment Study.





## **Highlights of the Operating Budget**

## Operating Expenses (cont.):

- \$2 million for contractual services for drinking water system and vulnerability risk assessment and water resource protection.
- \$1.5 million increase in funding for emergency road repairs and BWS facility pavement repairs.
- \$1.2 million for consultant services to upgrade the instrumentation and controls for the water distribution system.



## **Highlights of the Operating Budget**

## Operating Expenses (cont.):

## Equipment

- \$1.2 million more for new and replacement vehicles.
- \$700,000 for two mobile generators. Eligible for 75% FEMA reimbursement.

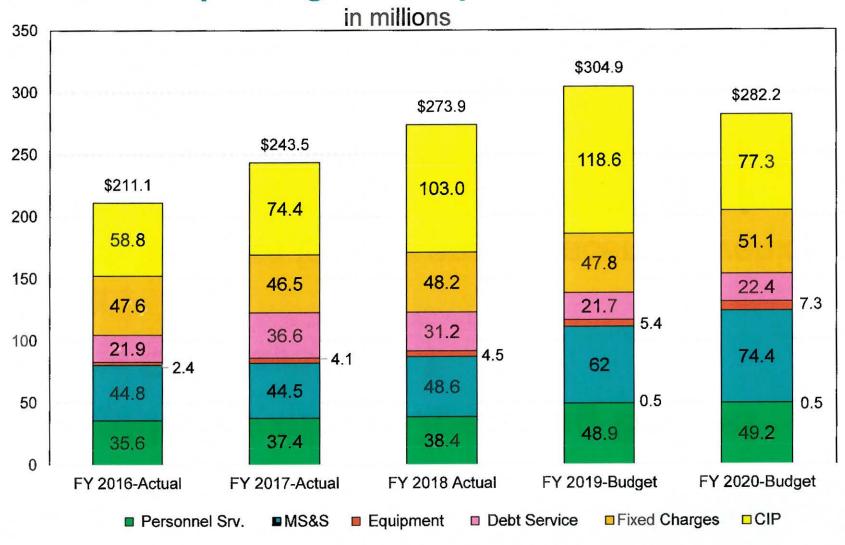
## Fixed Charges

- \$1.8 million increase in Employees Retirement System costs
- \$2.0 million more for electricity expenses



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#### **Operating Fund Expenditures**





#### Revenues

- Water sales are projected to be relatively flat over FY 2019 Budget-Estimated.
- Scheduled water rate increase in FY 2020

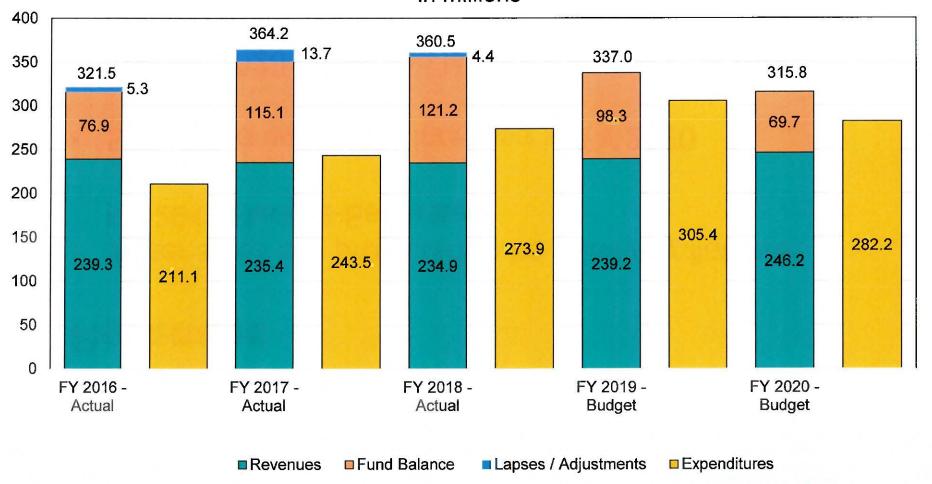
The FY 2020 projection is primarily due to stable potable water consumption in the near term.

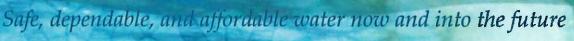




## Total Resources vs. Total Expenditures

in millions

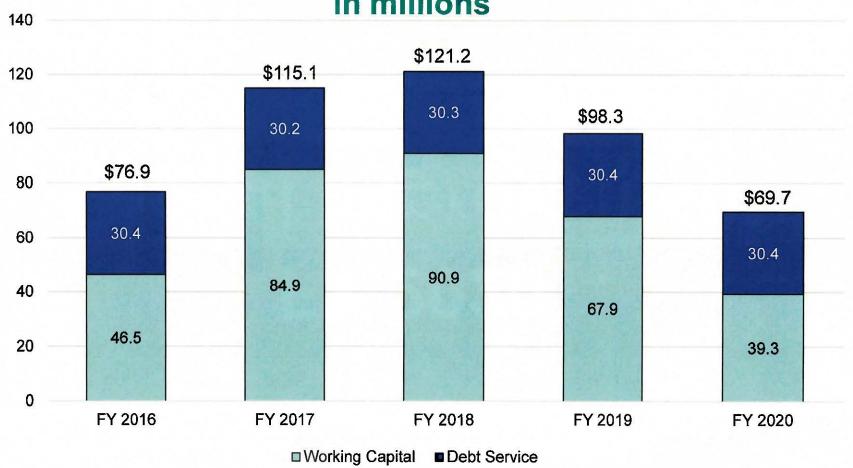






## **Fund Balance**

## Debt Service and Working Capital requirements in millions





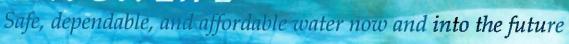






## **FY 2020 CIP**

- Supports the BWS vision and mission of Water For Life: Safe, dependable and affordable water now and into the future
- Aligned with the BWS Strategic Plan 2018-2022, Divisions' Goals & Objectives and the Six-Year Capital Improvement Program





Water Service
Adequacy and Dependability

Infrastructure Costs
Rate Affordability





Safe, dependable, and affordable water now and into the future

## **Project Categories**

Research and Development

Renewal and Replacement

Capacity Expansion



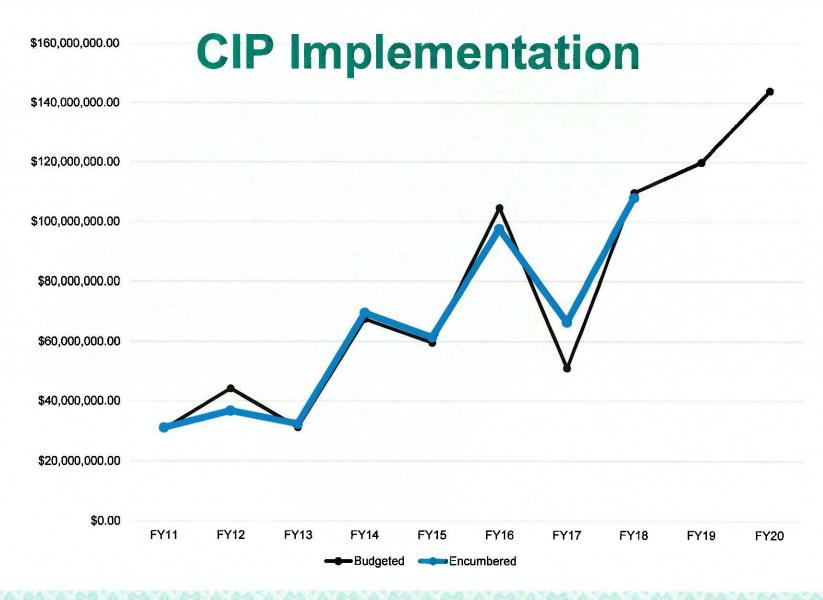


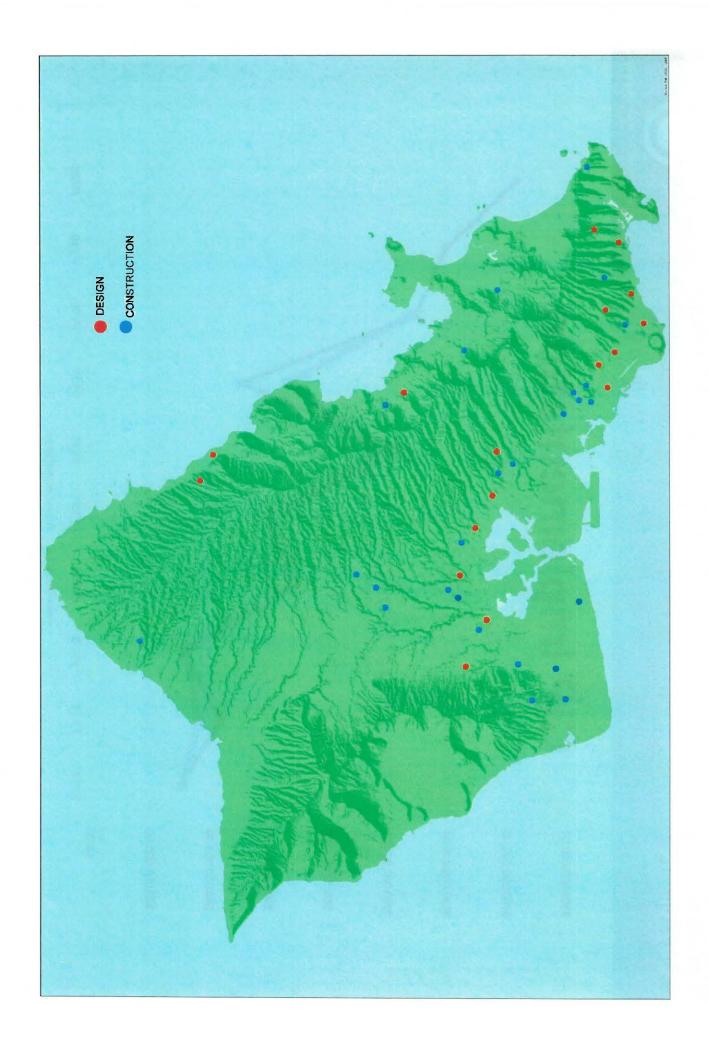
## Capital Improvement Program Budget FY 2020

	Categories	Operating Fund	Operating Fund (SRF Eligible)	Special Expendable Fund	Improvement Fund	Total
l.	Research & Development	\$ 6,250,000		<u></u>		\$ 6,250,000
11.	Renewal & Replacement	48,860,000	7,500,000		59,510,000	115,870,000
III.	Capacity Expansion	100,000		21,730,000		21,830,000
	Subtotal	55,210,000	7,500,000	21,730,000	59,510,000	143,950,000
	Construction Cost Index	3,895,000	750,000	1,930,000	5,780,000	12,355,000
	Contract Adjustment	10,000,000				10,000,000
	Total	\$ 69,105,000	\$ 8,250,000	\$ 23,660,000	65,290,000	\$ 166,305,000











## **Project Category Highlights**

## Research and Development (\$6.25 million)

- Construction Management for Various BWS Construction Projects
- Halawa Valley Groundwater Monitoring Wells, Phase II
- Waialae Nui Well Test
- Waiawa 228 Reservoir Environmental Assessment



# Renewal and Replacement (\$116.85 million)

- Mililani Wells II: Replacement of Pumping Units
- Waipahu Wells I Renovation
- Hoaeae Wells Pump Replacement and Electrical Upgrades
- Pump Renewal and Replacement



# WATER FOR LIFE

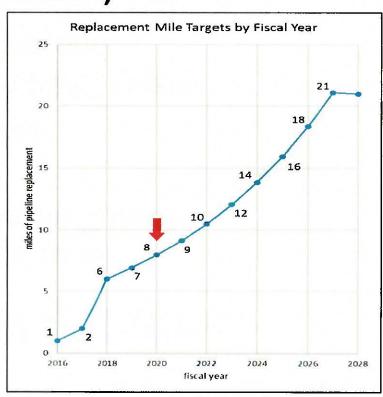




# **Project Category Highlights**

# Renewal and Replacement (continued)

- Main replacement construction in Kamehameha Heights, Pupukea, Kaneohe, Makakilo and Pauoa –
   8.3 miles
- Main replacement design in various location including Ewa Beach, Waipahu, Kuliouou, Kaneohe, Ahuimanu, and Hauula –
   15.6 miles



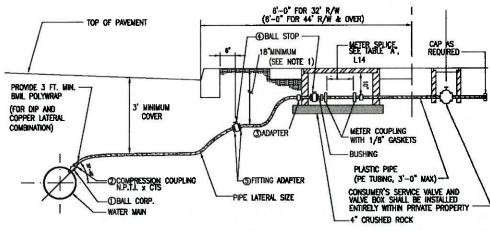
13.3 miles of pipeline currently under construction



# Renewal and Replacement (continued)

- Moanalua and Quarry Pipeline Tunnel repairs
- Service lateral replacements
- Granular Activated Carbon (GAC) water treatment facility renovations and







# Renewal and Replacement (continued)

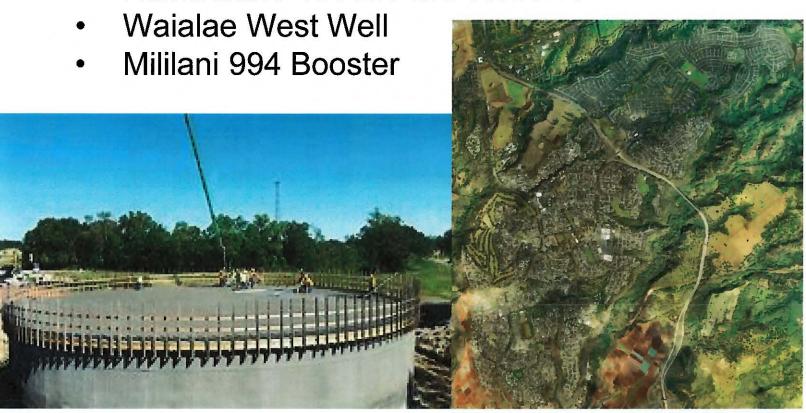
- Water Meter Transponders Replacements, Phase II
- Security Improvements at Various Locations
- Beretania Public Service Building Exterior Improvements
- Facility Reroofing, Repair and Renovations





# Capacity Expansion (\$20.85 million)

Kalawahine 180 2.0 MG Reservoir



# WATER FOR LIFE





# FY 2020 Operating and Capital Improvement Program Budget Summary

	FY 2019 Adopted	FY 2020 Proposed	\$ Change	% Change
Operating Budget	\$186,320,999	\$204,390,638	\$18,069,639	9.7%
Capital Improvement Program Budget	\$138,461,000	\$166,305,000	\$27,844,000	20.1%
Total	\$335,808,892	\$324,781,999	\$45,913,639	14.1%

# WATER FOR LIFE





# Questions?

# **BOARD OF WATER SUPPLY**

City and County of Honolulu Honolulu, Hawaii



# **2020 BUDGET**

For the Fiscal Year Beginning July 1, 2019 and Ending June 30, 2020



# BOARD OF WATER SUPPLY City and County of Honolulu

# OPERATING AND CAPITAL IMPROVEMENT PROGRAM BUDGET For the Fiscal Year Beginning July 1, 2019 and Ending June 30, 2020

### **BOARD MEMBERS**

Bryan P. Andaya, Chair

Kapua Sproat, Vice-Chair

Kay C. Matsui, Member

Ray C. Soon, Member

Max J. Sword, Member

Ross S. Sasamura, Ex-Officio

Jade T. Butay, Ex-Officio

SUBMITTED BY:	APPROVED:
ERNEST Y.W. LAU, P.E.	BRYAN P. ANDAYA, Chair
Manager and Chief Engineer	May 28, 2019



Chair and Members
Board of Water Supply
City and County of Honolulu
Honolulu. Hawaii 96843

Chair and Members:

In accordance with Section 7-106(i), Revised Charter of the City and County of Honolulu, we submit for your review and approval the proposed Operating and Capital Improvement Program Budget for fiscal year July 1, 2019 to June 30, 2020.

### FINANCIAL PLAN

The proposed Operating Budget for FY 2020 is based upon total operating fund resources of \$315.9 million, to be derived from operating revenues of \$246.2 million and an estimated carryover balance from FY 2019 of \$69.7 million. The carryover balance results from the estimated operating fund balance that is unappropriated. The unappropriated balance is composed of a minimum fund reserve required to maintain its recommended debt service coverage of \$30.4 million and working capital amount of \$39.3 million.

The proposed operating fund expenditure allocations are \$204.4 million for operating expenses; \$77.3 million for the Capital Improvement Program (CIP) Budget and a \$500 thousand fund transfer from the Operating Fund to the Special Expendable Fund. This transfer is to reimburse the Special Expendable Fund for water system facilities charges that will be waived under the City & County of Honolulu Affordable Housing Program. A projected ending balance of \$33.6 million will be unappropriated.

The proposed CIP budget totals \$166.3 million and is funded by \$77.3 million from the Operating Fund; \$65.3 million from the Improvement Fund and \$23.7 million from the Special Expendable Fund. Of the \$77.3 million in Operating Funds proposed for the CIP, \$8.3 million is eligible for participation in the State of Hawaii, Department of Health State Revolving Fund (SRF) loan program. The SRF loan program currently offers zero interest rate loans and low administrative fees.



Chair and Members Board of Water Supply May 28, 2019 Page 2

### PART I. OPERATING BUDGET

Following are summaries of the proposed revenues and expenditures for the next fiscal year as well as the corresponding figures for the preceding two fiscal years.

### A. REVENUES

For FY 2020, we are projecting total revenues of \$246.2 million; which is \$7 million or 2.9 percent more than total revenues budgeted for FY 2019.

Revenue Sources	FY 2018 Actual	FY 2019 Budget	FY 2020 Budget	Percent Change FY 2020 over FY 2019
Metered Sales				
Portable and Non-Potable Water	222,593,000	226,600,000	231,056,500	2.0%
Recycled Water	5,625,000	6,011,800	6,275,300	4.4%
Other Revenues	6,651,000	6,623,900	8,905,100	34.4%
Total Revenues	234,869,000	239,235,700	246,236,900	2.9%

### Metered Sales - Potable Water and Non-Potable

Potable and non-potable water sales are projected to increase by \$4.5 million or 2.0 percent over the FY 2019 budget amount to \$231 million. This increase is primarily due to a rate adjustment scheduled in FY 2020 with a minimal assumed growth in the total number of customers.



Chair and Members Board of Water Supply May 28, 2019 Page 3

### Metered Sales - Recycled Water

Recycled water sales at \$6.3 million are projected to increase by 4.4 percent when compared to the FY 2019 budget. This increase is due to a scheduled rate adjustment in FY 2020 and an expected increase in consumption due to additional customers.

#### Other Revenues

Other Revenues of \$8.9 million will be \$2.3 million higher than the FY 2019 budget amount due to an anticipated increase in interest income of \$2.1 million. Interest income is interest revenue earned on the Board's investments. Other Revenues category is comprised of sources such as interest income on investments, ocean cooling revenues, automatic fire sprinkler charges, rental income, and miscellaneous billing charges.

## B. EXPENDITURES

The proposed total operating fund expenditures for FY 2020 are budgeted at \$282.2 million. This represents a decrease of \$23.1 million, or 7.6 percent less than the amount budgeted for the current fiscal year. This change is attributable to a decrease in cash funding the Capital Improvement Program of \$41.2 million. These decreases are offset primarily by an increase in funding for materials, supplies and services of \$11.9 million; an increase in funding the departments fixed charges of \$3.3 million and an increase in funding for equipment of \$1.9 million.

Highlights of the proposed Operating Budget for FY 2020 are presented following the next table.



Chair and Members Board of Water Supply May 28, 2019 Page 5

# Summary of Proposed Operating Budget, by Major Cost Categories

Major Cost Category	FY 2018 <u>Actual</u>	FY 2019 Budget	FY 2020 <u>Budget</u>	FY 2020 over Amount	FY 2019 Percent
Personnel Services	38,446,490	48,939,682	49,196,863	257,181	0.5%
Materials, Supplies & Services	48,630,506	62,481,686	74,442,975	11,961,289	19.1%
Equipment	4,495,874	5,364,774	7,260,800	1,896,026	35.3%
Debt Service	31,222,140	21,657,000	22,382,000	725,000	3.3%
Fixed Charges	48,153,627	47,846,957	51,108,000	3,261,043	6.8%
Total Operating Expenditures	170,948,637	186,290,099	204,390,638	18,100,539	9.7%
Transfer to the Special Expendable Fund - C&C of Honolulu Affordable Housing Program (WSFC waivers)	-	500,000	500,000	-	0.0%
Transfer to the CIP Program	119,967,900	118,574,000	77,355,000	(41,219,000)	-34.8%
Total Expenditures	290,916,537	305,364,099	282,245,638	(23,118,461)	-7.6%



Chair and Members Board of Water Supply May 29, 2019 Page 5

#### **Personnel Services**

The proposed personnel services budget of \$49.2 million is \$257 thousand or 0.5 percent more than personnel services budgeted for the current year. The proposed operating budget includes the creation of four (4) positions that are needed to undertake new initiatives. These new positions are being offset by the abolishment of existing positions, which are no longer needed. The departmental staffing levels remains at 741 authorized positions. The four new positions proposed are:

- (2) Field Collection Representative I
- (1) Radio Technician II
- (1) Laboratory Technician II

The four positions to be abolished are:

- (1) Procurement and Specifications Specialist IV
- (1) Meter Reader III
- (1) Laboratory Technician II
- (1) Senior Clerk-Typist

## Materials, Supplies and Services (MS&S)

The proposed MS&S budget of \$74.4 million is \$11.9 million or 19.1 percent more than the expenditures budgeted for the current year. This is primarily due to an increase in funding to install a RO line along the drainage canal at the Honouliuli recycled water facility of \$2.2 million; conduct a TCP Advanced Treatment Study of \$2 million; contractual services for drinking water system assessment, water resource protection, studies and vulnerability risk assessment of \$2 million; additional funding for emergency and contracted road repairs of \$1.5 million; consultant services for the upgrade of the instrumentation and controls for the water distribution system of \$1.2 million; funding for NPDES compliance services of \$750 thousand; additional funding to clear growth and vegetation at various BWS facilities of \$778 thousand; additional funding to complete the Wakea Street loop at the Honouliuli recycled water facility of \$383 thousand; services for a water conservation program plan (B&C) of \$300 thousand; funding for leak detection monitoring services of \$200 thousand and funding for management services at the UH JABSOM cooling plant of \$200 thousand.



Chair and Members Board of Water Supply May 29, 2018 Page 6

### **Equipment**

The proposed equipment budget of \$7.3 million is \$1.9 million or 35.3 percent more than the amount budgeted in FY 2019. This change is due to higher replacement costs and additions to the BWS vehicle and equipment fleet. The additions to the fleet for FY 2020 total \$1.3 million; of which \$535 thousand will be reimbursed from the Federal Emergency Management Agency (FEMA). Fleet replacements are based on a criterion of age and mileage in order to minimize future maintenance costs.

### **Debt Service**

The total debt service requirement for FY 2020 is \$22.4 million, which is \$725 thousand or 3.3 percent more than the amount budgeted in FY 2019. In FY 2020, the department anticipates the issuance of revenue bonds. The proceeds from the bond issuance will be used to fund projects in the FY 2020 CIP budget.

## **Fixed Charges**

The proposed fixed charges budget of \$51.1 million is \$3.3 million, or 6.8 percent more than the amount budgeted for FY 2019. This increase of \$3.3 million is due to increased contributions to the State of Hawaii ERS of \$1.8 million; an increase of \$1.1 million for electricity costs to power the department's pumping stations, reservoirs and facilities; and an increase in funding of \$302 thousand to the State Employer-Union Trust Fund (EUTF) Other Post-Employment Benefits (OPEB) plan.

# PART II. CAPITAL IMPROVEMENT PROGRAM (CIP) BUDGET

A CIP budget of \$166.3 million is proposed for FY 2020 to be funded as follows: Operating Fund -- \$77.3; Improvement Fund -- \$65.3 million and the Special Expendable Fund -- \$23.7 million. Of the \$77.4 million in CIP projects that will be funded through the Operating Fund; \$8.3 million is eligible for participation in the State Department of Health's State Revolving Fund (SRF) loan program. The SRF loan program currently offers zero interest rate loans with low administrative fees.

Highlights of the proposed CIP for next year includes \$6.3 million for research and development, \$115.9 million for the renewal and replacement of various BWS pipelines, facilities and pumping stations, and \$21.8 million for capacity expansion.

Chair and Members Board of Water Supply May 29, 2018 Page 7

The CIP cost categories and project descriptions are summarized starting on page CIP-1.

Respectfully submitted,

ERNEST Y.W. LAU, P.E. Manager and Chief Engineer



# SUMMARY OF ALL FUNDS

**OPERATING BUDGET** 

CAPITAL IMPROVEMENT PROGRAM BUDGET



# Board of Water Supply Summary of All Funds Fiscal Year 2020

	Operating Fund	Operating Fund - SRF Eligible	Special Expendable Fund	Improvement Fund	Total All Funds by Program
Operating Budget	204,390,638	, F	·-	<u>u</u>	204,390,638
Transfer to Special Expendable Fund	500,000	-	· <u>-</u> -	-	500,000
Capital Improvement Program	69,105,000	8,250,000	23,660,000	65,290,000	166,305,000
Total by Fund	273,995,638	8,250,000	23,660,000	65,290,000	371,195,638



# BOARD OF WATER SUPPLY OPERATING AND CAPITAL IMPROVEMENT PROGRAM BUDGET FISCAL YEAR 2020 TABLE OF CONTENTS

### I. OPERATING BUDGET

Budget Message Resources and Expenditures	
Revenues Expenditure Classification - Department Summary	
Expenditure Classification - Department Summary by Division/Office	
Expenditures – Department Summary by Division/Onice	
Positions – Department Summary	
Debt Service	
Graphs	
Expenditures by Major Program and/or Activity:	
Office of the Manager and Chief Engineer	OP-1
Executive Support Office	
Communications Office	OP-8
Human Resources Office	
Water Quality Division	OP-10
Customer Care Division	
Land Division	OP-21
Water Resources Division	OP-22
Field Operations Division	OP-30
Capital Projects Division	OP-50
Water Systems Operations Division	OP-56
Information Technology Division	
Finance Division	
Fixed Charges and Debt Service	OP-80
CAPITAL IMPROVEMENT PROGRAM (CIP) BUDGET	
Summary	CIP-1
CIP Project Details	CIP-2



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Department	Summary
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Resources and Expenditures	FY2018 Actual	FY2019 Adopted Budget	FY2020 Proposed Budget
Beginning Balance	121,268,859	98,274,731	69,658,009
Revenues	234,869,000	239,235,700	246,236,900
Lapses/Adjustments	4,412,089	0	0
Total Resources	360,549,948	337,510,431	315,894,909
Operating Expenditures	170,948,635	186,290,099	204,390,638
Capital Program	103,044,311	118,574,000	77,355,000
Transfer to Special Expendable Fund	0	500,000	500,000
Total Expenditures	273,992,946	305,364,099	282,245,638
Ending Balance	86,557,002	32,146,332	33,649,272

### Department Summary

Revenues	FY2018 Actual	FY2019 Adopted Budget	FY2020 Proposed Budget
Metered Revenue - Potable Water	222,593,000	226,600,000	231,056,500
Metered Revenue - Recycled Water (R-1)	3,029,000	3,255,000	3,389,800
Metered Revenue - Recycled Water (RO)	2,596,000	2,756,800	2,885,500
Private Fire Protection	597,000	775,000	692,000
Ocean Cooling Revenues	1,299,000	1,200,000	1,353,100
Other Water Revenues	593,000	320,000	320,000
Revenues from Water Service Installations	522,000	550,000	550,000
Revenues from Merchandising & Jobbing (M&J)	328,000	280,000	280,000
Interest Income - Operating	2,869,000	3,198,900	5,340,000
Miscellaneous Non-Operating Revenue	199,000	120,000	120,000
Non-Operating Rental Income	244,000	180,000	250,000
Total	234,869,000	239,235,700	246,236,900



# Board of Water Supply Operating Budget Expenditures Fiscal Year 2020

Department Su	mmary
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Expenditure Classification	FY2018 Actual	FY2019 Adopted Budget	FY2020 Proposed Budget
Personnel Services	38,446,490	48,939,682	49,196,863
Materials, Supplies and Services	48,630,506	62,481,686	74,442,975
Equipment	4,495,874	5,364,774	7,260,800
Departmental Fixed Charges	48,153,627	47,846,957	51,108,000
Debt Service	31,222,140	21,657,000	22,382,000
Operating Expenditures	170,948,635	186,290,099	204,390,638
Transfer to Capital Improvement Program	103,044,311	118,574,000	77,355,000
Transfer to Special Expendable Fund	0	500,000	500,000
Total Expenditures	273,992,946	305,364,099	282,245,638



# Board of Water Supply Operating Budget Expnditures Fiscal Year 2020

## Department Summary by Division/Office

Expenditure Classification (Personnel Services, Materials, Supplies and Services, and Equipment)	FY2018 Actual	FY2019 Adopted Budget	FY2020 Proposed Budget
Manager's Office	972,036	878,960	854,240
Executive Support Office	9,590,327	7,596,660	8,486,451
Communications Office	1,178,884	1,414,284	1,446,687
Human Resources Office	601,840	776,750	782,050
Water Quality	4,548,702	8,062,690	9,785,950
Customer Care	4,219,179	6,407,445	6,073,140
Land	586,992	853,100	820,600
Water Resources	9,600,203	11,122,191	15,634,487
Field Operations	23,514,664	31,643,665	36,215,350
Capital Projects	5,090,772	7,350,000	7,531,000
Water System Operations	15,969,349	18,682,350	21,951,050
Information Technology	11,179,635	16,220,427	16,178,733
Finance	4,452,422	5,777,620	5,140,900
Total of Divisions and Offices	91,505,004	116,786,142	130,900,638
Materials, Supplies and Services	67,865	0	0
Departmental Fixed Charges	48,153,627	47,846,957	51,108,000
Debt Service	31,222,140	21,657,000	22,382,000
Total Operating Expenditures	170,948,635	186,290,099	204,390,638



# Board of Water Supply Expenses by Account Type Fiscal Year 2020

### Department Summary by Division/Office

Division and Offices	Personnel Services	Materials, Supplies, and Services	Equipment	Debt Service and Dept Fixed Charges	FY2020 Proposed Budget
Manager's Office	495,000	359,240	0	0	854,240
Executive Support Office	1,357,200	7,004,251	125,000	0	8,486,451
Communications Office	887,167	559,520	0	0	1,446,687
Human Resources Office	573,900	202,650	5,500	0	782,050
Water Quality	1,643,400	7,987,050	155,500	0	9,785,950
Customer Care	4,715,200	1,301,940	56,000	0	6,073,140
Land	274,600	546,000	0	0	820,600
Water Resources	2,574,096	12,970,391	90,000	0	15,634,487
Field Operations	16,845,800	19,085,550	284,000	0	36,215,350
Capital Projects	6,381,300	1,068,700	81,000	0	7,531,000
Water System Operations	6,924,500	9,013,750	6,012,800	0	21,951,050
Information Technology	3,680,500	12,083,233	415,000	0	16,178,733
Finance	2,844,200	2,260,700	36,000	0	5,140,900
Total:	49,196,863	74,442,975	7,260,800	0	130,900,638
Fixed Charges and Debt Service	0	0	0	73,490,000	73,490,000
Grand Total	49,196,863	74,442,975	7,260,800	73,490,000	204,390,638



# Board of Water Supply Position Budgets Fiscal Year 2020

### Department Summary by Division/Office

		Posit	ions			Salar	У	
Division Name	Perm	LTA	PSC	Total	Perm	LTA	PSC	Total
Manager's Office	5.0	0.0	0.0	5.0	494,955	0	0	494,955
Executive Support Office	20.0	0.0	4.0	24.0	1,154,438	0	156,192	1,310,630
Communications Office	12.0	0.0	0.0	12.0	774,574	0	0	774,574
Human Resources Office	10.0	0.0	0.0	10.0	568,925	0	0	568,925
Water Quality	23.0	0.0	2.0	25.0	1,399,150	0	98,244	1,497,394
Customer Care	79.0	2.0	9.0	91.0	3,662,032	68,040	170,100	3,934,192
Land	5.0	0.0	0.0	5.0	253,146	0	0	253,146
Water Resources	35.0	0.0	0.5	35.5	2,394,182	0	44,124	2,438,306
Field Operations	257.0	0.0	13.0	270.0	13,516,325	0	605,496	14,121,821
Capital Projects	81.0	0.0	3.0	84.0	5,447,232	0	126,756	5,573,988
Water System Operations	106.0	0.0	0.0	106.0	6,170,033	0	0	6,170,033
Information Technology	54.0	0.0	2.0	56.0	3,435,955	0	33,503	3,469,458
Finance	43.0	9.0	0.0	52.0	2,222,855	306,180	0	2,529,035
Total	730.0	11.0	33.5	775.5	41,493,799	374,220	1,234,415	43,136,454



## Board of Water Supply Operating Budget - Debt Service Fiscal Year 2020

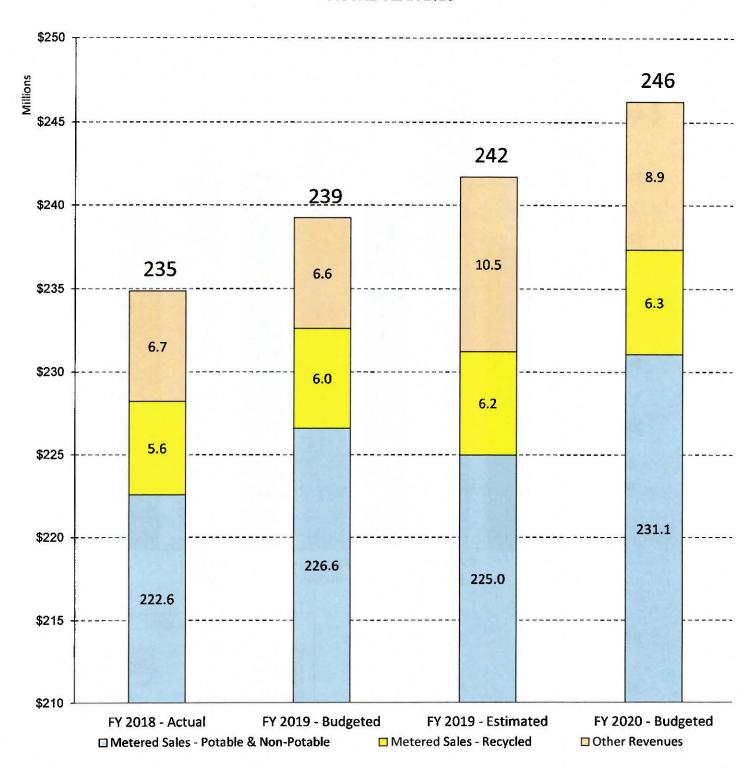
## DEBT SERVICE

ISSUE	FY 2018 Actual	FY 2019 Budget	FY 2020 Budget
Water System Revenue Bonds:			
Series 2012A Series 2014 A & B	970,000 7,395,000	7,730,000 10,147,000	7,703,000 10,157,000
Debt Service - Bonds Payable	8,365,000	17,877,000	17,860,000
Notes Payable: SRF Loans	12,348,447	3,780,000	4,522,000
Debt Service - Notes Payable	12,348,447	3,780,000	4,522,000
- -	20,713,447	21,657,000	22,382,000

Bond Issues:	 	*	
Year Issued	<u>Amount</u>	Year Expires	<u>Years</u>
2006	\$ 213,805,000	2036	30
2012A	\$ 85,195,000	2033	21
2014A	\$ 101,655,000	2036	22
2014B	\$ 43,330,000	2031	17

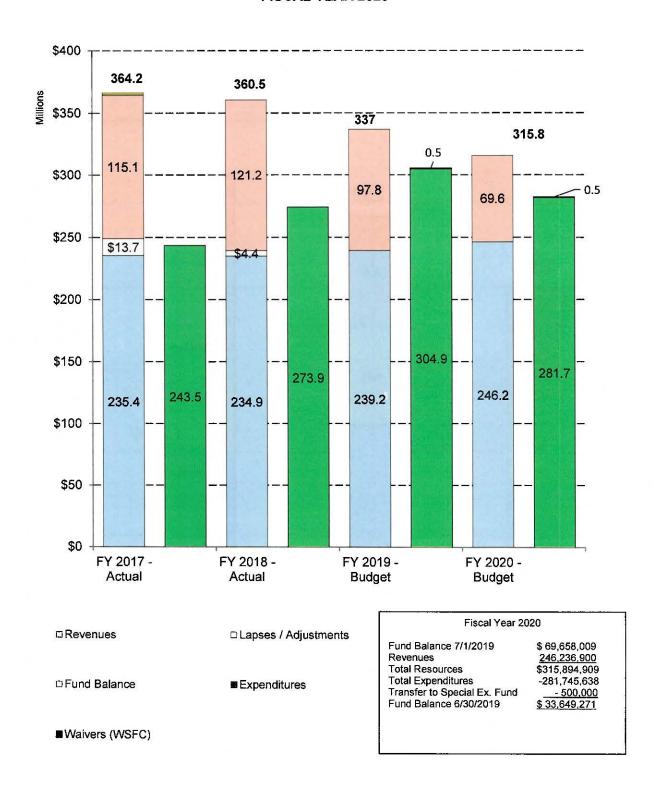


## BOARD OF WATER SUPPLY OPERATING FUND REVENUES FISCAL YEAR 2020



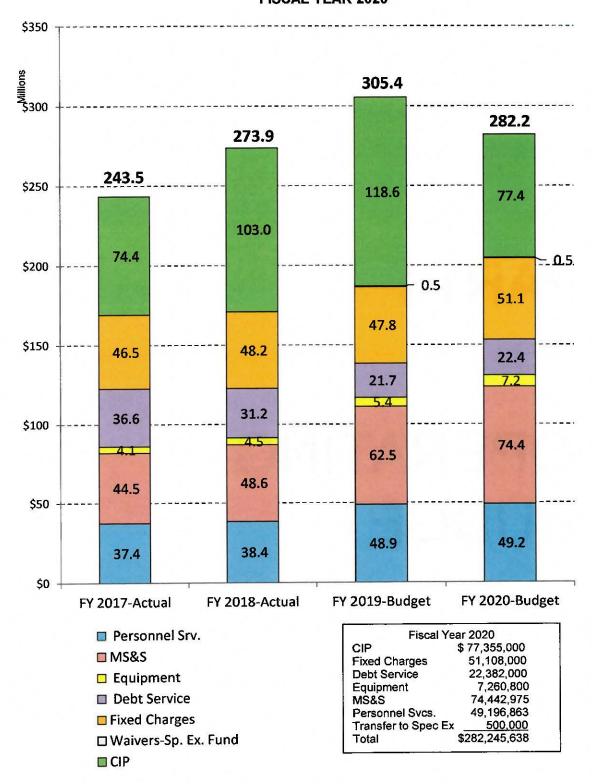


## BOARD OF WATER SUPPLY TOTAL RESOURCES VS. TOTAL EXPENDITURES FISCAL YEAR 2020





# BOARD OF WATER SUPPLY OPERATING BUDGET EXPENDITURES (INCLUDING CIP) FISCAL YEAR 2020





PART I

OPERATING BUDGET

## **OMCE - Manager's Office**

#### Section's Activity

The Manager and Chief Engineer is the executive head of the Board of Water Supply who administers the affairs of the department in accordance with policies and regulations adopted by the Board and the provisions of the City Charter.

Account	FY2018 Actual	FY2018 Adopted Budget	FY2019 Adopted Budget	FY2020 Proposed Budget	Change
4110 - Salaries & Wages	621,887	586,200	540,400	495,000	(45,400)
4120 - Overtime	148	0	0	0	0
4130 - Miscellaneous (Payroll)	0	0	0	0	0
Personnel Services	622, <u>0</u> 36	586,200	540,400	495,000	(45,400)
4160 - Meals; Mileage & Uniform Allowances	20	0	0	0	0
4250 - Other Contractual Services	3,818	4,200	4,600	4,600	0
4255 - Other Services	7,553	57,000	57,000	58,800	1,800
4260 - Advertising & Publication of Notices	0	500	500	500	0
4265 - Printing	774	1,000	1,000	1,000	0
4270 - Professional Services	30,915	35,000	35,000	35,000	0
4430 - Miscellaneous Supplies	3,905	5,000	5,000	5,000	0
4460 - Other Materials & Supplies	5,372	15,000	10,000	10,000	0
4720 - Conference Travel & Expenses	9,990	38,240	38,240	38,240	0
4815 - Repair & Maint - Equipment	1,150	3,000	3,000	3,000	0
4910 - Miscellaneous Fees & Registration	278,969	175,500	184,220	203,100	18,880
4915 - Miscellaneous Financial Expenses	6,300	0	0	0	0
8050 - Equipment (under \$5,000)	1,236	5,000	0	0	0
Materials, Supplies and Services	350,001	339,440	338,560	359,240	20,680
Total Manager's Office	972,036	925,640	878,960	854,240	(24,720)

**Budget Highlights** 

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## **ESO - Executive Support Office**

#### Division/Office's Activity

The Executive Support Office is responsible for the development of the annual departmental operating budget; ensures that procurement of all goods and services and construction are in compliance with Hawaii Revised Statues (HRS)103D; administers the department's safety, risk management, and security programs.

Account	FY2018 Actual	FY2018 Adopted Budget	FY2019 Adopted Budget	FY2020 Proposed Budget	Change
4110 - Salaries & Wages	1,039,946	1,214,400	1,409,800	1,310,700	(99,100)
4120 - Overtime	17,862	18,500	20,000	21,500	1,500
4130 - Miscellaneous (Payroll)	1,187	0	83,750	25,000	(58,750)
Personnel Services	1,058,994	1,232,900	1,513,550	1,357,200	(156,350)
4160 - Meals; Mileage & Uniform Allowances	1,135	3,700	2,700	1,500	(1,200)
4250 - Other Contractual Services	1,069,107	39,190	52,240	2,250,399	2,198,159
4251 - Software Licenses and Maintenance	36,544	0	36,000	38,000	2,000
4260 - Advertising & Publication of Notices	0	300	300	0	(300)
4265 - Printing	6	2,500	1,500	1,000	(500)
4270 - Professional Services	4,671,864	3,887,143	2,592,000	1,520,000	(1,072,000)
4430 - Miscellaneous Supplies	76,804	9,788	10,050	34,272	24,222
4460 - Other Materials & Supplies	37,908	90,000	70,000	50,000	(20,000)
4480 - Postage	0	200	0	0	0
4500 - Education and Training	195	6,000	6,000	4,000	(2,000)
4720 - Conference Travel & Expenses	7,952	19,000	19,000	28,800	9,800
4805 - Repair & Maint - Structures	9,623	500,000	50,000	20,000	(30,000)
4910 - Miscellaneous Fees & Registration	10,000	2,300	1,320	2,280	960
5700 - Insurance	20,055	800,000	850,000	850,000	0
6340 - Workers Compensation Benefits	997,001	1,340,000	1,340,000	1,200,000	(140,000)
6350 - Claims for Pers Injuries & Prop Damage	1,507,893	1,000,000	1,000,000	1,000,000	0
8050 - Equipment (under \$5,000)	26,913	48,000	32,000	4,000	(28,000)
Materials, Supplies and Services	8,473,000	7,748,121	6,063,110	7,004,251	941,141
1270 - General Plant & Equip (over \$5,000)	58,332	0	20,000	125,000	105,000
Equipment	58,332	0	20,000	125,000	105,000
Total ESO - Executive Support Office	9,590,327	8,981,021	7,596,660	8,486,451	889,791

Notes

## **ESO - Executive Support Office**

#### 5105 - Executive Support Office

#### Section's Activity

The Executive Support Office (ESO) administers and manages programs in areas such as budget, position management, reorganization, procurement, security, risk management and safety.

Account	FY2018 Actual	FY2018 Adopted Budget	FY2019 Adopted Budget	FY2020 Proposed Budget	Change
4110 - Salaries & Wages	205,115	200,100	259,700	238,400	(21,300)
4120 - Overtime	605	1,000	1,000	1,000	0
4130 - Miscellaneous (Payroll)	1,187	0	42,000	0	(42,000)
Personnel Services	206,907	201,100	302,700	239,400	(63,300)
4160 - Meals; Mileage & Uniform Allowances	0	0	0	0	0
4250 - Other Contractual Services	3,357	0	50,000	249,200	199,200
4265 - Printing	0	1,000	500	500	0
4270 - Professional Services	0	135,143	140,000	100,000	(40,000)
4430 - Miscellaneous Supplies	21,839	7,788	8,050	3,000	(5,050)
4500 - Education and Training	0	1,000	1,000	1,000	0
4720 - Conference Travel & Expenses	0	0	0	0	0
4910 - Miscellaneous Fees & Registration	10,000	1,000	1,000	1,000	0
8050 - Equipment (under \$5,000)	0	0	0	0	0
Materials, Supplies and Services	35,196	145,931	200,550	354,700	154,150
Total Executive Support Office	242,103	347,031	503,250	594,100	90,850

**Budget Highlights** 



### **ESO - Executive Support Office**

#### 5110 - Risk Management

#### Section's Activity

The Risk Management section provides risk management services that ensure the business and operational exposures of the BWS are covered through either insurance or self-retention policies. Oversees the department's workers' compensation program. Additionally, the section ensures the safety and well-being of our employees through a comprehensive safety program and return-to-work program.

Account	FY2018 Actual	FY2018 Adopted Budget	FY2019 Adopted Budget	FY2020 Proposed Budget	Change
4110 - Salaries & Wages	227,261	309,700	323,300	327,500	4,200
4120 - Overtime	3,339	3,500	5,000	5,000	0
4130 - Miscellaneous (Payroll)	0	0	0	0	0
Personnel Services	230,600	313,200	328,300	332,500	4,200
4160 - Meals; Mileage & Uniform Allowances	544	1,200	1,200	1,200	0
4250 - Other Contractual Services	261,020	34,390	2,000	3,199	1,199
4270 - Professional Services	1,526,351	1,152,000	1,152,000	1,420,000	268,000
4430 - Miscellaneous Supplies	596	0	0	6,272	6,272
4460 - Other Materials & Supplies	10,485	0	0	0	0
4500 - Education and Training	195	4,500	4,500	3,000	(1,500)
4720 - Conference Travel & Expenses	3,969	12,000	12,000	20,800	8,800
4910 - Miscellaneous Fees & Registration	0	1,100	0	1,280	1,280
5700 - Insurance	20,055	800,000	850,000	850,000	0
6340 - Workers Compensation Benefits	997,001	1,340,000	1,340,000	1,200,000	(140,000)
6350 - Claims for Pers Injuries & Prop Damage	1,507,893	1,000,000	1,000,000	1,000,000	0
8050 - Equipment (under \$5,000)	22,044	23,000	15,000	0	(15,000)
Materials, Supplies and Services	4,350,153	4,368,190	4,376,700	4,505,751	129,051
Total Risk Management	4,580,753	4,681,390	4,705,000	4,838,251	133,251

**Budget Highlights** 



#### **ESO - Executive Support Office**

#### 5120 - Security Office

#### Section's Activity

Security section develops, coordinates, and maintains security measures and systems to protect BWS employees and facilities. It conducts vulnerability assessments, installs detection systems, and develops emergency response plans. It oversees the development and installation of security enhancements and equipment for BWS facilities. It monitors facilities from the central security center through the use of security guards, cameras, sensor alarms, and ID cards. The unit coordinates protective activities with external agencies such as the Honolulu Police and Fire Departments, State Civil Defense and Honolulu Department of Emergency Services, and other Homeland Security organizations.

Account	FY2018 Actual	FY2018 Adopted Budget	FY2019 Adopted Budget	FY2020 Proposed Budget	Change
4110 - Salaries & Wages	221,839	228,300	248,900	245,900	(3,000)
4120 - Overtime	9,406	10,000	10,000	10,000	0
Personnel Services	231,244	238,300	258,900	255,900	(3,000)
4160 - Meals; Mileage & Uniform Allowances	281	2,500	1,500	300	(1,200)
4250 - Other Contractual Services	804,227	4,800	0	1,998,000	1,998,000
4270 - Professional Services	3,145,513	2,600,000	1,300,000	0	(1,300,000)
4430 - Miscellaneous Supplies	54,090	2,000	2,000	25,000	23,000
4460 - Other Materials & Supplies	27,423	90,000	70,000	50,000	(20,000)
4500 - Education and Training	0	500	500	0	(500)
4805 - Repair & Maint - Structures	9,623	500,000	50,000	20,000	(30,000)
8050 - Equipment (under \$5,000)	4,869	17,000	1,000	4,000	3,000
Materials, Supplies and Services	4,046,026	3,216,800	1,425,000	2,097,300	672,300
1270 - General Plant & Equip (over \$5,000)	58,332	0	0	0	0
Equipment	58,332	0	0	0	0
Total Security Office	4,335,603	3,455,100	1,683,900	2,353,200	669,300

**Budget Highlights** 

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## **ESO - Executive Support Office**

## 5125 - Management and Budget

### Section's Activity

The Management and Budget section is responsible for the development and execution of the annual operating budget. Develops water and other revenue projections and conducts various revenue, budgetary, financial and statistical studies of the department.

Account	FY2018 Actual	FY2018 Adopted Budget	FY2019 Adopted Budget	FY2020 Proposed Budget	Change
4110 - Salaries & Wages	91,360	174,300	194,200	160,500	(33,700)
4120 - Overtime	4,077	4,000	4,000	4,000	0
Personnel Services	95,437	178,300	198,200	164,500	(33,700)
4160 - Meals; Mileage & Uniform Allowances	250	0	0	0	0
4251 - Software Licenses and Maintenance	36,544	0	36,000	38,000	2,000
4260 - Advertising & Publication of Notices	0	300	300	0	(300)
4265 - Printing	0	1,500	1,000	500	(500)
4910 - Miscellaneous Fees & Registration	0	200	320	0	(320)
8050 - Equipment (under \$5,000)	0	3,000	1,000	0	(1,000)
Materials, Supplies and Services	36,794	5,000	38,620	38,500	(120)
1270 - General Plant & Equip (over \$5,000)	0	0	20,000	45,000	25,000
Equipment	0	0	20,000	45,000	25,000
Total Management and Budget	132,231	183,300	256,820	248,000	(8,820)

**Budget Highlights** 



## **ESO - Executive Support Office**

### 5140 - Procurement

### Section's Activity

The Procurement section assists all BWS divisions and offices with the procurement of construction, goods, services, and professional services and to ensure that such procurements are conducted in accordance with Hawaii Revised Statues Chapter 103D and the Hawaii Administrative Rules.

Account	FY2018 Actual	FY2018 Adopted Budget	FY2019 Adopted Budget	FY2020 Proposed Budget	Change
4110 - Salaries & Wages	294,370	302,000	383,700	338,400	(45,300)
4120 - Overtime	436	0	0	1,500	1,500
4130 - Miscellaneous (Payroll)	0	0	41,750	25,000	(16,750)
Personnel Services	294,806	302,000	425,450	364,900	(60,550)
4160 - Meals; Mileage & Uniform Allowances	60	0	0	0	0
4250 - Other Contractual Services	503	0	240	0	(240)
4265 - Printing	6	0	0	0	0
4430 - Miscellaneous Supplies	279	0	0	0	0
4480 - Postage	0	200	0	0	0
4720 - Conference Travel & Expenses	3,983	7,000	7,000	8,000	1,000
8050 - Equipment (under \$5,000)	0	5,000	15,000	0	(15,000)
Materials, Supplies and Services	4,831	12,200	22,240	8,000	(14,240)
1270 - General Plant & Equip (over \$5,000)	0	0	0	80,000	80,000
Equipment	0	0	0	80,000	80,000
Total Procurement Section	299,638	314,200	447,690	452,900	5,210

**Budget Highlights** 



### **COMM - Communications Office**

### Section's Activity

The Communications Office develops departmental policies and programs for strategic internal and external communications, including: community relations, water education and public information, including news releases, speeches, bulletins, advertisements, public service announcements, brochures, annual and special reports; notifies news media of water emergencies; coordinates and maintains effective media communications programs for the department; receives, processes and resolves complaints; develops and produces the employee newsletter; conducts orientations and manages the department's water education and facility tour program; coordinates community affairs programs and special events; and provides executive level strategic communications counsel and assistance to the Board, Manager, and departmental units in public affairs matters.

Account	FY2018 Actual	FY2018 Adopted Budget	FY2019 Adopted Budget	FY2020 Proposed Budget	Change
4110 - Salaries & Wages	781,217	732,300	796,300	774,600	(21,700)
4120 - Overtime	38,103	34,740	38,978	62,035	23,057
4130 - Miscellaneous (Payroll)	0	56,700	65,125	50,532	(14,593)
Personnel Services	819,320	823,740	900,403	887,167	(13,236)
4160 - Meals; Mileage & Uniform Allowances	1,317	870	957	1,053	96
4250 - Other Contractual Services	241,444	207,900	304,290	347,944	43,654
4251 - Software Licenses and Maintenance	0	3,500	10,940	24,531	13,591
4260 - Advertising & Publication of Notices	0	10,500	11,550	16,940	5,390
4265 - Printing	39,719	33,000	39,500	66,000	26,500
4410 - Gasoline	0	0	0	0	Ç
4430 - Miscellaneous Supplies	42,931	3,500	4,000	4,800	800
4460 - Other Materials & Supplies	21,790	29,900	41,800	55,000	13,200
4480 - Postage	0	15,400	39,100	15,600	(23,500
4500 - Education and Training	300	4,500	5,000	11,200	6,200
4720 - Conference Travel & Expenses	(132)	5,000	6,000	0	(6,000)
4815 - Repair & Maint - Equipment	0	700	850	932	82
4910 - Miscellaneous Fees & Registration	3,057	14,800	14,620	10,520	(4,100)
8050 - Equipment (under \$5,000)	9,138	5,000	5,000	5,000	(
Materials, Supplies and Services	359,564	334,570	483,607	<b>559</b> ,520	75,91
1270 - General Plant & Equip (over \$5,000)	0	0	30,274	0	(30,274
Equipment	0	0	30,274	0	(30,274
Total Communications Office	1,178,884	1,158,310	1,414,284	1,446,687	32,40

**Budget Highlights** 



## **HRO - Human Resources Office**

### Section's Activity

The BWS Human Resources Office administers and manages BWS human resources programs in areas including recruitment, examination, and selection, employee benefits, transactions and personnel record maintenance, labor relations, performance evaluation, classification and compensation, and staff development. In addition, BWS HRO provides staff support for position management and review of reorganizations.

Account	FY2018 Actual	FY2018 Adopted Budget	FY2019 Adopted Budget	FY2020 Proposed Budget	Change
4110 - Salaries & Wages	482,505	552,700	584,600	568,900	(15,700)
4120 - Overtime	3,144	6,000	5,000	5,000	0
Personnel Services	485,649	558,700	589,600	573,900	(15,700)
4160 - Meals; Mileage & Uniform Allowances	470	200	300	300	0
4250 - Other Contractual Services	11,377	43,000	50,000	100,000	50,000
4260 - Advertising & Publication of Notices	0	5,000	5,000	5,000	0
4430 - Miscellaneous Supplies	4,318	4,500	2,500	2,500	0
4460 - Other Materials & Supplies	4,501	5,000	6,000	6,000	0
4480 - Postage	33	100	100	100	0
4500 - Education and Training	12,315	71,200	71,200	71,200	- 0
4720 - Conference Travel & Expenses	2,737	13,320	15,300	15,800	500
4815 - Repair & Maint - Equipment	931	1,500	1,250	1,250	0
4910 - Miscellaneous Fees & Registration	284	275	500	500	0
6340 - Workers Compensation Benefits	65,281	0	0	0	0
8050 - Equipment (under \$5,000)	4,045	1,000	0	0	0
Materials, Supplies and Services	106,293	145,095	152,150	202,650	50,500
1270 - General Plant & Equip (over \$5,000)	9,898	0	35,000	5,500	(29,500)
Equipment	9,898	0	35,000	5,500	(29,500)
Total Human Resources Office	601,840	703,795	776,750	782,050	5,300

**Budget Highlights** 

## **WQ - Water Quality**

## Division/Office's Activity

The Water Quality Division ensures the department's compliance with all federal and state drinking water regulations and environmental laws, rules and regulations and manages special water quality studies.

Account	FY2018 Actual	FY2018 Adopted Budget	FY2019 Adopted Budget	FY2020 Proposed Budget	Change
4110 - Salaries & Wages	1,229,245	1,364,700	1,456,000	1,497,400	41,400
4120 - Overtime	108,736	45,000	145,000	145,000	0
4130 - Miscellaneous (Payroll)	(652)	0	0	1,000	1,000
Personnel Services	1,337,329	1,409,700	1,601,000	1,643,400	42,400
4160 - Meals; Mileage & Uniform Allowances	3,905	4,000	7,000	7,000	0
4250 - Other Contractual Services	720,306	1,063,900	3,042,400	674,900	(2,367,500)
4251 - Software Licenses and Maintenance	76,830	85,000	30,000	85,000	55,000
4270 - Professional Services	2,249,655	2,900,000	3,100,000	6,970,000	3,870,000
4410 - Gasoline	54	0	0	0	0
4430 - Miscellaneous Supplies	2,487	1,820	2,320	2,320	0
4460 - Other Materials & Supplies	101,155	74,300	96,300	98,300	2,000
4500 - Education and Training	580	23,260	24,670	26,740	2,070
4720 - Conference Travel & Expenses	23,679	39,000	43,500	66,000	22,500
4815 - Repair & Maint - Equipment	3,037	34,000	34,000	14,000	(20,000)
4910 - Miscellaneous Fees & Registration	10,675	14,200	16,200	18,400	2,200
8050 - Equipment (under \$5,000)	9,916	8,400	15,300	24,390	9,090
Materials, Supplies and Services	3,202,279	4,247,880	6,411,690	7,987,050	1,575,360
1270 - General Plant & Equip (over \$5,000)	9,094	50,000	50,000	155,500	105,500
Equipment	9,094	50,000	50,000	155,500	105,500
Total WQ - Water Quality	4,548,702	5,707,580	8,062,690	9,785,950	1,723,260

Notes

# **WQ - Water Quality**

## 5250 - Water Quality Administration

### Section's Activity

Administers the department's compliance with all safe drinking water regulations, environmental laws, rules and regulations.

Account	FY2018 Actual	FY2018 Adopted Budget	FY2019 Adopted Budget	FY2020 Proposed Budget	Change
4110 - Salaries & Wages	246,457	383,900	346,600	405,300	58,700
4120 - Overtime	320	0	0	0	0
Personnel Services	246,777	383,900	346,600	405,300	58,700
4160 - Meals; Mileage & Uniform Allowances	33	0	0	0	0
4250 - Other Contractual Services	37,389	215,500	2,115,500	3,600	(2,111,900)
4270 - Professional Services	2,249,655	2,900,000	3,100,000	6,770,000	3,670,000
4430 - Miscellaneous Supplies	2,487	0	500	500	0
4460 - Other Materials & Supplies	53	300	300	300	0
4500 - Education and Training	20	20,600	21,620	21,800	180
4720 - Conference Travel & Expenses	18,627	27,700	32,400	47,900	15,500
4910 - Miscellaneous Fees & Registration	0	1,500	1,800	1,800	0
8050 - Equipment (under \$5,000)	1,351	0	0	5,000	5,000
Materials, Supplies and Services	2,309,615	3,165,600	5,272,120	6,850,900	1,578,780
1270 - General Plant & Equip (over \$5,000)	0	0	0	75,000	75,000
Equipment	0	0	0	75,000	75,000
Total Water Quality Administration	2,556,392	3,549,500	5,618,720	7,331,200	1,712,480

**Budget Highlights** 

## **WQ - Water Quality**

### 5251 - Chemical Laboratory

### **Section's Activity**

The Chemical Laboratory performs required water quality testing and monitoring to conform to federal and state regulations; monitors proposed rules for departmental impact. Supports the department's operational testing requirements and special water quality studies.

Account	FY2018 Actual	FY2018 Adopted Budget	FY2019 Adopted Budget	FY2020 Proposed Budget	Change
4110 - Salaries & Wages	528,148	530,600	600,500	576,200	(24,300)
4120 - Overtime	25,002	25,000	25,000	25,000	0
4130 - Miscellaneous (Payroll)	0	0	0	0	0
Personnel Services	553,150	555,600	625,500	601,200	(24,300)
4160 - Meals; Mileage & Uniform Allowances	796	2,000	2,000	2,000	0
4250 - Other Contractual Services	589,175	708,300	786,800	665,800	(121,000)
4270 - Professional Services	0	0	0	100,000	100,000
4410 - Gasoline	54	0	0	0	C
4430 - Miscellaneous Supplies	0	1,820	1,820	1,820	C
4460 - Other Materials & Supplies	29,798	20,000	40,000	42,000	2,000
4500 - Education and Training	20	500	620	740	120
4720 - Conference Travel & Expenses	400	3,000	6,300	6,300	(
4815 - Repair & Maint - Equipment	0	30,000	30,000	10,000	(20,000)
4910 - Miscellaneous Fees & Registration	1,255	6,800	7,500	7,500	
8050 - Equipment (under \$5,000)	6,105	5,000	4,700	7,390	2,690
Materials, Supplies and Services	627,602	777,420	879,740	843,550	(36,190)
1270 - General Plant & Equip (over \$5,000)	0	50,000	50,000	0	(50,000)
Equipment	0	50,000	50,000	0	(50,000)
Total Chemical Laboratory	1,180,753	1,383,020	1,555,240	1,444,750	(110,490)

## **WQ - Water Quality**

## 5252 - Microbiological Laboratory

### **Section's Activity**

The Microbiological Laboratory performs the required bacteriological water quality testing and monitoring to conform to federal and state regulations; monitors proposed rules for departmental impact. Supports the department's operational testing requirements and special water quality studies

Account	FY2018 Actual	FY2018 Adopted Budget	FY2019 Adopted Budget	FY2020 Proposed Budget	Change
4110 - Salaries & Wages	454,640	450,200	508,900	515,900	7,000
4120 - Overtime	83,413	20,000	120,000	120,000	0
4130 - Miscellaneous (Payroll)	(652)	0	0	1,000	1,000
Personnel Services	537,402	470,200	628,900	636,900	8,000
4160 - Meals; Mileage & Uniform Allowances	3,076	2,000	5,000	5,000	0
4250 - Other Contractual Services	93,742	140,100	140,100	5,500	(134,600)
4251 - Software Licenses and Maintenance	76,830	85,000	30,000	85,000	55,000
4270 - Professional Services	0	0	0	100,000	100,000
4460 - Other Materials & Supplies	71,304	54,000	56,000	56,000	0
4500 - Education and Training	540	2,160	2,430	4,200	1,770
4720 - Conference Travel & Expenses	4,652	8,300	4,800	11,800	7,000
4815 - Repair & Maint - Equipment	3,037	4,000	4,000	4,000	0
4910 - Miscellaneous Fees & Registration	9,420	5,900	6,900	9,100	2,200
8050 - Equipment (under \$5,000)	2,460	3,400	10,600	12,000	1,400
Materials, Supplies and Services	265,062	304,860	259,830	292,600	32,770
1270 - General Plant & Equip (over \$5,000)	9,094	0	0	80,500	80,500
Equipment	9,094	0	0	80,500	80,500
Total Microbiological Laboratory	811,557	775,060	888,730	1,010,000	121,270

**Budget Highlights** 

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### **CC - Customer Care**

## Division/Office's Activity

The Customer Care Division handles contacts with customers; prepares applications and contracts for water service; designs service connections; and maintains accounts receivable; investigates consumers' service problems; and collects water and sewer bills. It is responsible for reviewing development construction plans, specifications, and reports for conformity with BWS standards; reviewing requests concerning the availability of water; and administering rules and regulations on cross-connection control and environmental requirements.

Account	FY2018 Actual	FY2018 Adopted Budget	FY2019 Adopted Budget	FY2020 Proposed Budget	Change
4110 - Salaries & Wages	3,144,116	4,358,200	4,413,800	3,934,100	(479,700)
4120 - Overtime	336,524	317,200	526,300	587,100	60,800
4130 - Miscellaneous (Payroll)	74,138	127,700	100,000	194,000	94,000
Personnel Services	3,554,779	4,803,100	5,040,100	4,715,200	(324,900)
4160 - Meals; Mileage & Uniform Allowances	22,184	25,100	33,950	36,540	2,590
4220 - Collection Fees	393,902	901,200	678,000	850,000	172,000
4250 - Other Contractual Services	48,381	141,700	65,870	145,700	79,830
4267 - Printed forms	0	4,400	5,000	5,000	C
4410 - Gasoline	28	0	0	0	(
4430 - Miscellaneous Supplies	11,048	21,100	29,400	19,200	(10,200
4460 - Other Materials & Supplies	70,301	80,200	59,200	61,700	2,500
4470 - Parts and Accessories	0	0	0	0	
4480 - Postage	40	0	0	15,000	15,000
4500 - Education and Training	38,707	48,900	41,800	59,000	17,200
4720 - Conference Travel & Expenses	300	6,000	6,000	7,000	1,000
4815 - Repair & Maint - Equipment	2,845	27,900	25,900	24,100	(1,800
4910 - Miscellaneous Fees & Registration	1,867	5,900	4,800	6,100	1,300
8050 - Equipment (under \$5,000)	54,847	76,500	54,425	72,600	18,175
Materials, Supplies and Services	644,450	1,338,900	1,004,345	1,301,940	297,59
1270 - General Plant & Equip (over \$5,000)	19,950	20,000	363,000	56,000	(307,000
Equipment	19,950	20,000	363,000	56,000	(307,000
Total CC - Customer Care	4,219,179	6,162,000	6,407,445	6,073,140	(334,305

Notes

## **CC - Customer Care**

## 5300 - Customer Care Administration

## Section's Activity

Administers the affairs of the Customer Care Administration Section; provides clerical support to sections.

Account	FY2018 Actual	FY2018 Adopted Budget	FY2019 Adopted Budget	FY2020 Proposed Budget	Change
4110 - Salaries & Wages	256,672	348,500	285,600	298,700	13,100
4120 - Overtime	2,742	1,000	2,500	5,100	2,600
Personnel Services	259,414	349,500	288,100	303,800	15,700
4160 - Meals; Mileage & Uniform Allowances	116	0	50	240	190
4250 - Other Contractual Services	2,233	83,000	3,600	79,600	76,000
4430 - Miscellaneous Supplies	10,640	15,000	15,000	15,000	0
4460 - Other Materials & Supplies	3,079	0	0	0	0
4500 - Education and Training	38,707	35,000	33,000	50,000	17,000
4720 - Conference Travel & Expenses	300	6,000	6,000	7,000	1,000
4910 - Miscellaneous Fees & Registration	0	500	600	600	0
8050 - Equipment (under \$5,000)	2,609	5,000	0	0	0
Materials, Supplies and Services	57,684	144,500	58,250	152,440	94,190
1270 - General Plant & Equip (over \$5,000)	0	0	363,000	0	(363,000)
Equipment	0	0	363,000	0	(363,000)
Total Customer Care Administration	317,098	494,000	709,350	456,240	(253,110)

**Budget Highlights** 



### **CC - Customer Care**

### 5310 - Collection and Credit

### Section's Activity

The Collection and Credit Section formulates and establishes collection and credit practices and procedures; maintains the cashiering service for payment of water and sewer bills; processes payments made by mail and through charge cards, E-bill, automatic bill payment, and Satellite City Halls; maintains records of delinquent and inactive accounts; performs all field collection and customer service work required to maintain an effective billing and collection program.

Account	FY2018 Actual	FY2018 Adopted Budget	FY2019 Adopted Budget	FY2020 Proposed Budget	Change
4110 - Salaries & Wages	540,231	790,300	820,000	687,500	(132,500)
4120 - Overtime	8,879	7,200	7,800	12,000	4,200
4130 - Miscellaneous (Payroll)	33,800	61,600	40,000	57,000	17,000
Personnel Services	582,910	859,100	867,800	756,500	(111,300)
4160 - Meals; Mileage & Uniform Allowances	1,040	2,800	3,600	3,600	0
4220 - Collection Fees	393,902	901,200	678,000	850,000	172,000
4250 - Other Contractual Services	3,831	<b>42</b> ,700	12,600	17,000	4,400
4267 - Printed forms	0	4,400	5,000	5,000	0
4410 - Gasoline	20	0	0	0	0
4430 - Miscellaneous Supplies	253	3,600	9,000	4,200	(4,800)
4460 - Other Materials & Supplies	91	0	0	0	0
4480 - Postage	40	0	0	15,000	15,000
4500 - Education and Training	0	5,400	6,800	6,000	(800)
4815 - Repair & Maint - Equipment	0	5,400	3,400	0	(3,400)
8050 - Equipment (under \$5,000)	1,800	8,500	7,700	1,200	(6,500)
Materials, Supplies and Services	400,978	974,000	726,100	902,000	175,900
1270 - General Plant & Equip (over \$5,000)	0	0	0	36,000	36,000
Equipment	0	0	0	36,000	36,000
Total Collection and Credit	983,888	1,833,100	1,593,900	1,694,500	100,600

**Budget Highlights** 

### **CC - Customer Care**

## 5320 - Service Engineering

### Section's Activity

The Service Engineering Section receives and processes applications for new water service and for relocating or altering water service facilities; renews and approves building permit applications for various types of developments; designs service connections, reviews development and construction plans for water service facilities, maintains maps and records of water distribution and service facilities; performs drafting work for the division; conducts special water service studies; administers water system facilities charges.

Account	FY2018 Actual	FY2018 Adopted Budget	FY2019 Adopted Budget	FY2020 Proposed Budget	Change
4110 - Salaries & Wages	340,611	408,000	477,800	492,800	15,000
4120 - Overtime	4,096	6,000	6,000	10,000	4,000
4130 - Miscellaneous (Payroll)	2,012	10,900	0	53,000	53,000
Personnel Services	346,718	424,900	483,800	555,800	72,000
4160 - Meals; Mileage & Uniform Allowances	50	800	800	600	(200)
4250 - Other Contractual Services	432	0	750	600	(150)
4460 - Other Materials & Supplies	169	1,200	1,200	1,200	0
8050 - Equipment (under \$5,000)	0	0	4,500	0	(4,500)
Materials, Supplies and Services	651	2,000	7,250	2,400	(4,850)
Total Service Engineering	347,369	426,900	491,050	558,200	67,150

**Budget Highlights** 

### **CC - Customer Care**

#### 5325 - Cross-Connection Control

### Section's Activity

The Cross-Connection Control Section manages and implements the Department's Cross-Connection Control Program; reviews construction plans for cross-connection control requirements; conducts agricultural rate inspections; inspects backflow prevention assembly installations; administers the annual backflow prevention assembly testing program; conducts the backflow prevention assembly tester training course; tests and maintains the Department's backflow prevention assemblies; performs public outreach/education on cross-connection control and backflow prevention.

Account	FY2018 Actual	FY2018 Adopted Budget	FY2019 Adopted Budget	FY2020 Proposed Budget	Change
4110 - Salaries & Wages	166,808	327,600	285,400	187,000	(98,400)
4120 - Overtime	49,050	50,000	120,000	150,000	30,000
4130 - Miscellaneous (Payroll)	18,458	200	0	0	0
Personnel Services	234,317	377,800	405,400	337,000	(68,400)
4160 - Meals; Mileage & Uniform Allowances	1,660	3,500	7,000	7,000	0
4250 - Other Contractual Services	4,884	0	7,920	6,500	(1,420)
4460 - Other Materials & Supplies	59,482	74,000	50,000	50,000	0
4815 - Repair & Maint - Equipment	2,183	16,500	16,500	18,100	1,600
4910 - Miscellaneous Fees & Registration	1,000	3,400	2,200	3,500	1,300
8050 - Equipment (under \$5,000)	29,182	25,400	12,225	27,900	15,675
Materials, Supplies and Services	98,391	122,800	95,845	113,000	17,155
Total Cross-Connection Control	332,708	500,600	501,245	450,000	(51,245)

**Budget Highlights** 

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### **CC - Customer Care**

### 5330 - Customer Service and Records

### Section's Activity

Customer Service and Records Section services customers' applications requiring reestablishment, discontinuance or transfer of services; maintains customer records for billing purposes; initiates field investigations; reviews governmental agency water service contracts; prepares statistical reports on services and handles inquiries and complaints regarding BWS operations, policies, rates and high water bills. Assists other BWS personnel in other divisions with information, statistics, and status of accounts via computer terminals and services files.

Account	FY2018 Actual	FY2018 Adopted Budget	FY2019 Adopted Budget	FY2020 Proposed Budget	Change
4110 - Salaries & Wages	739,364	1,292,500	1,283,200	1,129,000	(154,200)
4120 - Overtime	19,073	13,000	30,000	50,000	20,000
4130 - Miscellaneous (Payroll)	12,876	0	0	25,000	25,000
Personnel Services	771,313	1,305,500	1,313,200	1,204,000	(109,200)
4160 - Meals; Mileage & Uniform Allowances	1,540	0	2,500	2,700	200
4250 - Other Contractual Services	0	Ö	0	0	0
4430 - Miscellaneous Supplies	0	2,500	5,000	0	(5,000)
4460 - Other Materials & Supplies	6	0	0	0	0
4500 - Education and Training	0	8,500	2,000	3,000	1,000
8050 - Equipment (under \$5,000)	3,191	7,600	0	3,000	3,000
Materials, Supplies and Services	4,737	18,600	9,500	8,700	(800)
Total Customer Service and Records	776,050	1,324,100	1,322,700	1,212,700	(110,000)

**Budget Highlights** 



## **CC - Customer Care**

### 5350 - Investigation

### Section's Activity

The Investigation Section investigates and determines causes of abnormalities, interruptions and reductions in water supply; investigates consumer complaints; locates underground piping systems; locates leaks; inspects water services for conformance to the department's rules and regulations; and obtains field data on water services.

FY2018 Actual	FY2018 Adopted Budget	FY2019 Adopted Budget	FY2020 Proposed Budget	Change
1,100,429	1,191,300	1,261,800	1,139,100	(122,700)
252,685	240,000	360,000	360,000	0
6,992	55,000	60,000	59,000	(1,000)
1,360,106	1,486,300	1,681,800	1,558,100	(123,700)
17,778	18,000	20,000	22,400	2,400
37,000	16,000	41,000	42,000	1,000
8	0	0	0	0
155	0	400	0	(400)
7,475	5,000	8,000	10,500	2,500
0	0	0	0	0
662	6,000	6,000	6,000	0
867	2,000	2,000	2,000	0
18,064	30,000	30,000	40,500	10,500
82,010	77,000	107,400	123,400	16,000
19,950	20,000	0	20,000	20,000
19,950	20,000	0	20,000	20,000
1,462,065	1,583,300	1,789,200	1,701,500	(87,700)
	Actual 1,100,429 252,685 6,992 1,360,106  17,778 37,000 8 155 7,475 0 662 867 18,064 82,010  19,950	FY2018 Actual         Adopted Budget           1,100,429         1,191,300           252,685         240,000           6,992         55,000           1,360,106         1,486,300           17,778         18,000           37,000         16,000           8         0           155         0           7,475         5,000           0         0           662         6,000           867         2,000           18,064         30,000           82,010         77,000           19,950         20,000	FY2018 Actual         Adopted Budget         Adopted Budget           1,100,429         1,191,300         1,261,800           252,685         240,000         360,000           6,992         55,000         60,000           1,360,106         1,486,300         1,681,800           17,778         18,000         20,000           37,000         16,000         41,000           8         0         0           155         0         400           7,475         5,000         8,000           0         0         0           662         6,000         6,000           867         2,000         2,000           18,064         30,000         30,000           82,010         77,000         107,400	FY2018 Actual         Adopted Budget         Adopted Budget         Proposed Budget           1,100,429         1,191,300         1,261,800         1,139,100           252,685         240,000         360,000         360,000           6,992         55,000         60,000         59,000           1,360,106         1,486,300         1,681,800         1,558,100           17,778         18,000         20,000         22,400           37,000         16,000         41,000         42,000           8         0         0         0           155         0         400         0           7,475         5,000         8,000         10,500           0         0         0         0           662         6,000         6,000         6,000           867         2,000         2,000         2,000           18,064         30,000         30,000         40,500           82,010         77,000         107,400         123,400           19,950         20,000         0         20,000

**Budget Highlights** 

### **LAND** - Land

#### Section's Activity

The Land Division is responsible for acquiring real property and real property interests by purchase, eminent domain, license, lease or otherwise, conducts title searches; prepares or secures surveys, maps and descriptions for real property transactions; makes and/or contracts for land appraisals and analyzes those prepared by others; contracts and negotiates with private parties and government agencies to acquire real property and real property interests; prepares, checks and processes deeds, grants of easement, licenses, leases, agreements and other documents through to final execution and recordation; manages all real property and real property interests under the jurisdiction of the department, including recommendations on land use policies and carrying out the disposition of real property and real property interests, licenses, leases, etc.; and keeps abreast of laws ad court decisions affecting real property rights and values.

Account	FY2018 Actual	FY2018 Adopted Budget	FY2019 Adopted Budget	FY2020 Proposed Budget	Change
4110 - Salaries & Wages	289,096	280,900	302,300	253,100	(49,200)
4120 - Overtime	15,189	18,400	19,100	21,500	2,400
4130 - Miscellaneous (Payroll)	344	3,700	0	0	0
Personnel Services	304,630	303,000	321,400	274,600	(46,800)
4160 - Meals; Mileage & Uniform Allowances	268	500	0	1,000	1,000
4210 - Appraisals; Title Searches & Related Costs	247,486	390,500	452,500	452,500	0
4250 - Other Contractual Services	15,755	23,900	19,200	14,300	(4,900)
4430 - Miscellaneous Supplies	169	600	600	600	0
4480 - Postage	0	200	200	200	0
4720 - Conference Travel & Expenses	0	0	0	400	400
4910 - Miscellaneous Fees & Registration	18,684	19,200	19,200	20,500	1,300
5710 - Rent	0	0	0	56,000	56,000
8050 - Equipment (under \$5,000)	0	0	0	500	500
Materials, Supplies and Services	282,362	434,900	491,700	546,000	54,300
1270 - General Plant & Equip (over \$5,000)	0	0	40,000	0	(40,000)
Equipment	0	0	40,000	0	(40,000)
Total Land	586,992	737,900	853,100	820,600	(32,500)

**Budget Highlights** 

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### **WR - Water Resources**

### Division/Office's Activity

The Water Resources Division administers and coordinates long range planning and the capital program; conducts continuous hydrologic and geologic monitoring; conducts hydraulic water system analysis for infrastructure improvements and operational efficiency; administers and coordinates the review of development related proposals for the availability of water and water system adequacy; and administers the water conservation and recycled water programs.

Account	FY2018 Actual	FY2018 Adopted Budget	FY2019 Adopted Budget	FY2020 Proposed Budget	Change
4110 - Salaries & Wages	2,087,985	2,137,700	2,373,600	2,438,400	64,800
4120 - Overtime	74,808	112,374	100,291	132,079	31,788
4130 - Miscellaneous (Payroll)	39,202	57,015	3,348	3,617	269
Personnel Services	2,201,995	2,307,089	2,477,239	2,574,096	96,857
4160 - Meals; Mileage & Uniform Allowances	3,615	2,430	3,330	5,010	1,680
4250 - Other Contractual Services	1,833,459	1,457,730	1,060,300	2,137,459	1,077,159
4255 - Other Services	30,000	548,840	680,075	811,615	131,540
4265 - Printing	0	800	1,000	1,000	0
4270 - Professional Services	649,954	800,000	900,000	1,380,000	480,000
4430 - Miscellaneous Supplies	9,091	10,000	10,000	10,000	0
4460 - Other Materials & Supplies	30,987	45,400	48,000	38,000	(10,000)
4480 - Postage	0	480	480	480	C
4500 - Education and Training	629	16,300	14,600	24,530	9,930
4680 - Telephone	0	12,660	0	0	0
4720 - Conference Travel & Expenses	34,051	64,680	69,105	63,910	(5,195)
4810 - Repair & Maint - Recycled Water Plt	855,768	1,275,644	948,442	3,480,527	2,532,085
4815 - Repair & Maint - Equipment	1,786	31,900	31,600	31,600	C
4910 - Miscellaneous Fees & Registration	179	1,200	1,200	11,200	10,000
4920 - Non-Potable Water Trtmnt Plt Costs	3,632,459	4,668,725	4,638,520	4,668,060	29,540
4940 - US Geol Surv (USGS) CoOp Invest	218,436	232,000	72,000	72,000	C
8050 - Equipment (under \$5,000)	27,458	215,850	81,300	235,000	153,700
Materials, Supplies and Services	7,327,872	9,384,639	8,559,952	12,970,391	4,410,439
1270 - General Plant & Equip (over \$5,000)	70,337	104,280	85,000	90,000	5,000
Equipment	70,337	104,280	85,000	90,000	5,000
Total WR - Water Resources	9,600,203	11,796,008	11,122,191	15,634,487	4,512,296

Notes

### **WR - Water Resources**

### 5450 - Water Resources Administration

### Section's Activity

The Water Resources Administration Section coordinates and directs the activities of the Division to meet the departmental requirements for water system and water resources management and development, conservation and projection; advises and keeps management informed on water resources and administers the pertinent rules and regulations.

Account	FY2018 Actual	FY2018 Adopted Budget	FY2019 Adopted Budget	FY2020 Proposed Budget	Change
4110 - Salaries & Wages	343,937	361,300	378,500	367,300	(11,200)
4120 - Overtime	605	2,000	2,000	2,000	0
4130 - Miscellaneous (Payroll)	0	0	0	0	0
Personnel Services	344,542	363,300	380,500	369,300	(11,200)
4160 - Meals; Mileage & Uniform Allowances	156	0	0	0	0
4250 - Other Contractual Services	955,395	920,000	753,600	1,900,000	1,146,400
4430 - Miscellaneous Supplies	7,248	10,000	10,000	10,000	0
4680 - Telephone	0	660	0	0	0
4720 - Conference Travel & Expenses	6,076	4,200	9,950	6,700	(3,250)
4815 - Repair & Maint - Equipment	0	500	200	200	0
4910 - Miscellaneous Fees & Registration	179	0	0	10,000	10,000
Materials, Supplies and Services	969,055	935,360	773,750	1,926,900	1,153,150
Total Water Resources Administration	1,313,597	1,298,660	1,154,250	2,296,200	1,141,950

### **WR - Water Resources**

## 5470 - Water System Planning

### Section's Activity

The Water Systems Planning Section supports the functions of the Water Resources Division and other divisions by analyzing the feasibility of proposed capital projects and water system improvements using computer hydraulic models; verifying source contribution for the annual Consumer Confidence Report; developing specialized computer hydraulic models and analyzing operational scenarios; implementing/ assisting with the investigation and resolution of customer complaints of inadequate water service; coordinating the acquisition and evaluation of private water systems; and gathering real-time operational data for analysis and evaluation

Account	FY2018 Actual	FY2018 Adopted Budget	FY2019 Adopted Budget	FY2020 Proposed Budget	Change
4110 - Salaries & Wages	284,121	291,000	347,900	366,900	19,000
4120 - Overtime	2,531	8,000	7,438	7,438	0
4130 - Miscellaneous (Payroll)	0	9,600	0	0	0
Personnel Services	286,652	308,600	355,338	374,338	19,000
4160 - Meals; Mileage & Uniform Allowances	256	880	880	880	0
4250 - Other Contractual Services	0	480	75,960	960	(75,000)
4430 - Miscellaneous Supplies	1,698	0	0	0	0
4460 - Other Materials & Supplies	818	1,500	1,500	1,500	0
4480 - Postage	0	480	480	480	0
4500 - Education and Training	98	9,060	8,060	18,670	10,610
4720 - Conference Travel & Expenses	7,260	12,930	13,330	11,350	(1,980)
4815 - Repair & Maint - Equipment	0	7,400	7,400	7,400	0
8050 - Equipment (under \$5,000)	0	0	4,650	6,000	1,350
Materials, Supplies and Services	10,130	32,730	112,260	47,240	(65,020)
1270 - General Plant & Equip (over \$5,000)	5,038	15,780	0	0	0
Equipment	5,038	15,780	0	0	0
Total Water System Planning	301,821	357,110	467,598	421,578	(46,020)

## **WR - Water Resources**

### 5472 - Water Conservation

### Section's Activity

Directs the water conservation activities of the department; Conducts the planning, engineering, research, development, and implementation of the department's external (demand-side) and internal (infrastructure) conservation programs, including water facilities energy conservation and efficiency programs and recycled and other nonpotable water programs.

Account	FY2018 Actual	FY2018 Adopted Budget	FY2019 Adopted Budget	FY2020 Proposed Budget	Change
4110 - Salaries & Wages	404,671	426,100	484,000	491,200	7,200
4120 - Overtime	43,935	50,000	41,205	41,205	0
4130 - Miscellaneous (Payroll)	0	6,800	0	0	0
Personnel Services	448,606	482,900	525,205	532,405	7,200
4160 - Meals; Mileage & Uniform Allowances	1,990	650	1,150	1,150	0
4250 - Other Contractual Services	1,863	0	1,920	0	(1,920)
4255 - Other Services	0	35,000	0	0	0
4270 - Professional Services	649,954	800,000	900,000	1,380,000	480,000
4430 - Miscellaneous Supplies	131	0	0	0	0
4460 - Other Materials & Supplies	17,733	20,450	20,450	10,450	(10,000)
4500 - Education and Training	0	0	1,600	1,600	0
4720 - Conference Travel & Expenses	8,027	23,000	23,200	17,300	(5,900)
8050 - Equipment (under \$5,000)	25,183	140,000	150	130,000	129,850
Materials, Supplies and Services	704,880	1,019,100	948,470	1,540,500	592,030
1270 - General Plant & Equip (over \$5,000)	65,298	0	0	0	0
Equipment	65,298	0	0	0	0
Total Water Conservation	1,218,784	1,502,000	1,473,675	2,072,905	599,230

**Budget Highlights** 



## **WR - Water Resources**

### 5475 - Recycled Water

### Section's Activity

The Recycled Water Program is responsible for the treatment and distribution of recycled water for beneficial reuse island-wide; the construction, acquisition, and operation of recycled water treatment and distribution infrastructure; long-term service and support agreements with large water users; and to conduct research and provide public outreach to promote acceptance of recycled water.

Account	FY2018 Actual	FY2018 Adopted Budget	FY2019 Adopted Budget	FY2020 Proposed Budget	Change		
4250 - Other Contractual Services	109,777	144,000	144,000	144,000	C		
4265 - Printing	0	200	0	0	C		
4460 - Other Materials & Supplies	0	400	0	0	(		
4810 - Repair & Maint - Recycled Water Plt	855,768	1,275,644	948,442	3,480,527	2,532,088		
4920 - Non-Potable Water Trtmnt Plt Costs	3,632,459	4,668,725	4,638,520	4,668,060	29,540		
Materials, Supplies and Services	4,598,005	6,088,969	5,730,962	8,292,587	2,561,625		
Total Recycled Water	4,598,005	6,088,969	5,730,962	8,292,587	2,561,62		

### **WR - Water Resources**

### 5480 - Hydrology-Geology

#### **Section's Activity**

The Hydrology-Geology Section is responsible for water resource monitoring and evaluation. The section collects and analyzes hydrologic and geologic data to manage resources, to identify new sources, to determine capacity of groundwater resources and aquifer properties. Plans and specifications are prepared for the drilling, testing, and sealing of wells of varying utility. The data collection unit collects rainfall, production and water level data, and conducts geophysical well profiles. These compiled data as well as hydrologic advice provided by staff is given to other sections, units, agencies and the public as requested. The data is used for the preparation of source development and management reports and studies. Watershed related programs and activities are administered through the watershed coordinator

Account	FY2018 Actual	FY2018 Adopted Budget	FY2019 Adopted Budget	FY2020 Proposed Budget	Change
4110 - Salaries & Wages	407,243	408,000	436,700	462,200	25,500
4120 - Overtime	17,566	33,994	32,548	34,436	1,888
4130 - Miscellaneous (Payroll)	1,405	28,015	3,348	3,617	269
Personnel Services	426,214	470,009	472,596	500,253	27,657
4160 - Meals; Mileage & Uniform Allowances	325	600	1,000	1,000	C
4250 - Other Contractual Services	766,424	392,750	84,320	91,999	7,679
4255 - Other Services	30,000	513,840	680,075	811,615	131,540
4265 - Printing	0	600	1,000	1,000	0
4430 - Miscellaneous Supplies	6	0	0	0	C
4460 - Other Materials & Supplies	11,933	22,000	25,000	25,000	C
4500 - Education and Training	531	6,400	2,900	3,000	100
4680 - Telephone	0	12,000	0	0	C
4720 - Conference Travel & Expenses	5,178	10,400	12,000	14,250	2,250
4815 - Repair & Maint - Equipment	1,786	24,000	24,000	24,000	(
4910 - Miscellaneous Fees & Registration	0	1,200	1,200	1,200	C
4940 - US Geol Surv (USGS) CoOp Invest	218,436	232,000	72,000	72,000	0
8050 - Equipment (under \$5,000)	2,274	75,500	75,500	98,000	22,500
Materials, Supplies and Services	1,036,894	1,291,290	978,995	1,143,064	164,069
1270 - General Plant & Equip (over \$5,000)	0	85,000	85,000	90,000	5,000
Equipment	0	85,000	85,000	90,000	5,000
Total Hydrology-Geology	1,463,107	1,846,299	1,536,591	1,733,317	196,726

**Budget Highlights** 



### **WR - Water Resources**

### 5490 - Project Review

### Section's Activity

The Project Review Section reviews all requests concerning the availability of water; reviews all water master plans of private and public developments; provides system pressure and flow data; evaluates existing system facilities to ascertain capacities required to support proposed private and public developments; and maintains the files of outstanding water commitments

Account	FY2018 Actual	FY2018 Adopted Budget	FY2019 Adopted Budget	FY2020 Proposed Budget	Change
4110 - Salaries & Wages	257,368	247,600	274,000	308,900	34,900
4120 - Overtime	1,417	3,600	3,600	3,600	0
4130 - Miscellaneous (Payroll)	0	800	0	0	0
Personnel Services	258,785	252,000	277,600	312,500	34,900
4160 - Meals; Mileage & Uniform Allowances	10	0	0	150	150
4460 - Other Materials & Supplies	0	400	400	400	C
4500 - Education and Training	0	0	1,200	630	(570)
4720 - Conference Travel & Expenses	2,697	4,450	3,275	2,400	(875)
Materials, Supplies and Services	2,707	4,850	4,875	3,580	(1,295)
1270 - General Plant & Equip (over \$5,000)	0	3,500	0	0	C
Equipment	0	3,500	0	0	(
Total Project Review	261,492	260,350	282,475	316,080	33,605

## **WR - Water Resources**

### 5495 - Long Range Planning

### Section's Activity

The Long-Range Planning Section develops master and long-range plans for water system improvements to meet departmental goals and objectives; prepares population projections and estimates of future water requirements; and prepares, prioritizes, and justifies related Capital Program projects.

Account	FY2018 Actual	FY2018 Adopted Budget	FY2019 Adopted Budget	FY2020 Proposed Budget	Change
4110 - Salaries & Wages	390,646	403,700	452,500	441,900	(10,600)
4120 - Overtime	8,755	14,780	13,500	43,400	29,900
4130 - Miscellaneous (Payroll)	37,797	11,800	0	0	0
Personnel Services	437,197	430,280	466,000	485,300	19,300
4160 - Meals; Mileage & Uniform Allowances	877	300	300	1,830	1,530
4250 - Other Contractual Services	0	500	500	500	0
4430 - Miscellaneous Supplies	8	0	0	0	C
4460 - Other Materials & Supplies	503	650	650	650	(
4500 - Education and Training	0	840	840	630	(210)
4720 - Conference Travel & Expenses	4,812	9,700	7,350	11,910	4,560
8050 - Equipment (under \$5,000)	0	350	1,000	1,000	0
Materials, Supplies and Services	6,200	12,340	10,640	16,520	5,880
Total Long Range Planning	443,397	442,620	476,640	501,820	25,180

**Budget Highlights** 

## FO - Field Operations

## Division/Office's Activity

The Field Operations Division is responsible for the maintenance of all waterworks facilities, including all pipelines, valves, fire hydrants, meters, AMR components and corporation yards; maintaining all grounds; installing, maintaining, and repairing service connections; maintaining office buildings and physical control of the storerooms and storage yards.

Account	FY2018 Actual	FY2018 Adopted Budget	FY2019 Adopted Budget	FY2020 Proposed Budget	Change
4110 - Salaries & Wages	10,053,465	13,049,500	12,927,100	14,121,800	1,194,700
4120 - Overtime	1,559,035	1,598,000	1,724,600	1,712,000	(12,600)
4130 - Miscellaneous (Payroll)	539,022	1,184,300	1,108,000	1,012,000	(96,000)
Personnel Services	12,151,522	15,831,800	15,759,700	16,845,800	1,086,100
1110 - Materials & Supplies (Storeroom)	816,255	1,800,000	2,000,000	2,000,000	0
1120 - Meters (Storeroom)	492,792	2,400,000	1,200,000	1,500,000	300,000
1125 - AMR Materials & Supplies (Storeroom)	1,445,072	2,000,000	2,000,000	2,000,000	0
4160 - Meals; Mileage & Uniform Allowances	93,772	124,600	125,900	129,500	3,600
4230 - Emergency & Contracted Road Repairs	5,381,721	6,000,000	7,000,000	8,500,000	1,500,000
4250 - Other Contractual Services	540,398	893,100	1,088,400	2,463,000	1,374,600
4265 - Printing	0	0	0	0	0
4270 - Professional Services	0	25,000	50,000	110,000	60,000
4280 - Refuse Collection & Disposal	661,421	550,000	840,000	840,000	0
4410 - Gasoline	20	0	0	0	0
4420 - Hauling Charges	191,246	160,000	160,000	160,000	0
4430 - Miscellaneous Supplies	13,486	10,000	7,500	1,000	(6,500)
4460 - Other Materials & Supplies	263,798	313,000	283,000	296,200	13,200
4470 - Parts and Accessories	1,162	2,400	0	0	0
4500 - Education and Training	4,764	30,000	40,000	45,000	5,000
4720 - Conference Travel & Expenses	15,676	46,000	35,000	40,000	5,000
4805 - Repair & Maint - Structures	10,190	60,000	60,000	60,000	0
4815 - Repair & Maint - Equipment	26,361	48,100	29,600	33,000	3,400
4820 - Repair & Maint - Distribution	23,437	0	0	0	0
4910 - Miscellaneous Fees & Registration	296	0	0	0	0
4915 - Miscellaneous Financial Expenses	57,970	0	0	0 ,	0
4920 - Non-Potable Water Trtmnt Plt Costs	0	0	0	0	0
4923 - Store Materials & Expense	1,178,984	500,000	700,000	750,000	50,000
8050 - Equipment (under \$5,000)	78,401	113,390	164,565	157,850	(6,715)
Materials, Supplies and Services	11,297,223	15,075,590	15,783,965	19,085,550	3,301,585
1270 - General Plant & Equip (over \$5,000)	65,919	59,240	100,000	284,000	184,000
Equipment	65,919	59,240	100,000	284,000	184,000
Total FO - Field Operations	23,514,664	30,966,630	31,643,665	36,215,350	4,571,685

Notes

# **FO - Field Operations**

# 5500 - Field Operations Administration

## Section's Activity

Administers the affairs of the Field Operations Division.

Account	FY2018 Actual	FY2018 Adopted Budget	FY2019 Adopted Budget	FY2020 Proposed Budget	Change
4110 - Salaries & Wages	585,202	699,100	830,500	417,700	(412,800)
4120 - Overtime	11,783	12,000	15,000	5,000	(10,000
4130 - Miscellaneous (Payroll)	297	77,200	30,000	30,000	
Personnel Services	597,282	788,300	875,500	452,700	(422,800
4160 - Meals; Mileage & Uniform Allowances	962	6,000	3,600	1,000	(2,600)
4230 - Emergency & Contracted Road Repairs	0	0	0	8,500,000	8,500,000
4250 - Other Contractual Services	67,990	160,000	144,000	450,000	306,000
4270 - Professional Services	0	25,000	50,000	110,000	60,000
4280 - Refuse Collection & Disposal	0	0	0	840,000	840,000
4430 - Miscellaneous Supplies	24	0	0	0	
4460 - Other Materials & Supplies	107	12,000	12,000	0	(12,000
4500 - Education and Training	4,288	30,000	40,000	45,000	5,000
4720 - Conference Travel & Expenses	15,301	46,000	35,000	40,000	5,000
4815 - Repair & Maint - Equipment	5,927	10,000	10,000	0	(10,000
4910 - Miscellaneous Fees & Registration	0	0	0	0	
4915 - Miscellaneous Financial Expenses	0	0	0	0	(
8050 - Equipment (under \$5,000)	6,269	4,000	60,170	3,000	(57,170
Materials, Supplies and Services	100,867	293,000	354,770	9,989,000	9,634,230
1270 - General Plant & Equip (over \$5,000)	51,940	51,940	0	0	
Equipment	51,940	51,940	0	0	(
Total Field Operations Administration	750,089	1,133,240	1,230,270	10,441,700	9,211,430

**Budget Highlights** 

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## FO - Field Operations

### 5525 - Engineering & Technical Support Section

### Section's Activity

The Engineering and Technical Support Section is responsible for the leak detection program; prepares plans and specifications, implements, and inspects the Indefinite Delivery Indefinite Quantity repaving work by contractors; prepares plans and specifications for capital projects under Field Operations' jurisdiction; review plans, specifications, and reports for BWS projects and projects that will be dedicated to BWS; evaluates new materials and equipment for maintenance requirements; and provide engineering support for field crews' work.

Account	FY2018 Actual	FY2018 Adopted Budget	FY2019 Adopted Budget	FY2020 Proposed Budget	Change
4110 - Salaries & Wages	0	0	0	443,900	443,900
4120 - Overtime	0	0	0	10,000	10,000
4130 - Miscellaneous (Payroli)	0	0	0	40,000	40,000
Personnel Services	0	0	0	493,900	493,900
4160 - Meals; Mileage & Uniform Allowances	0	0	0	3,500	3,500
4250 - Other Contractual Services	0	0	0	125,000	125,000
4460 - Other Materials & Supplies	0	0	0	10,000	10,000
4815 - Repair & Maint - Equipment	0	0	0	10,000	10,000
8050 - Equipment (under \$5,000)	0	0	0	28,500	28,500
Materials, Supplies and Services	0	0	0	177,000	177,000
1270 - General Plant & Equip (over \$5,000)	0	0	0	40,000	40,000
Equipment	0	0	0	40,000	40,000
Total Technical & Operational Support Branch	0	0	0	710,900	710,900

## **FO - Field Operations**

### 5552 - Meter Maintenance Section

#### Section's Activity

The Meter Maintenance Section operates and maintains the meter shop for testing and repairing meters; conducts annual meter and AMR maintenance program; inspects and performs large meter performance tests; repairs or replaces large meters; reviews and evaluates meter technical data; performs meter mastering to optimize meter type, size, and to diagnose problems; and installs and removes temporary fire hydrant meter assemblies.

Account	FY2018 Actual	FY2018 Adopted Budget	FY2019 Adopted Budget	FY2020 Proposed Budget	Change
4110 - Salaries & Wages	735,642	1,058,300	1,045,800	1,216,200	170,400
4120 - Overtime	194	120,000	120,000	60,000	(60,000)
4130 - Miscelfaneous (Payroll)	16,000	20,000	36,000	45,000	9,000
Personnel Services	751,836	1,198,300	1,201,800	1,321,200	119,400
1120 - Meters (Storeroom)	492,792	2,400,000	1,200,000	1,500,000	300,000
1125 - AMR Materials & Supplies (Storeroom)	1,445,072	2,000,000	2,000,000	2,000,000	0
4160 - Meals; Mileage & Uniform Allowances	1,215	3,000	3,000	3,000	0
4250 - Other Contractual Services	6,164	22,000	27,400	25,000	(2,400)
4460 - Other Materials & Supplies	13,701	24,000	24,000	30,000	6,000
4470 - Parts and Accessories	0	2,400	0	0	0
4815 - Repair & Maint - Equipment	0	15,000	0	0	0
8050 - Equipment (under \$5,000)	3,397	19,840	10,170	43,700	33,530
Materials, Supplies and Services	1,962,340	4,486,240	3,264,570	3,601,700	337,130
1270 - General Plant & Equip (over \$5,000)	0	7,300	100,000	244,000	144,000
Equipment	0	7,300	100,000	244,000	144,000
Total Technical & Operational Support Branch	2,714,176	5,691,840	4,566,370	5,166,900	600,530

**Budget Highlights** 



## FO - Field Operations

### 5585 - Storeroom Section

### Section's Activity

The Storeroom Section is responsible for physical control of the storerooms and storage yards; coordinates and processes the annual materials contract and stores and disposes of scrap and surplus materials.

Account	FY2018 Actual	FY2018 Adopted Budget	FY2019 Adopted Budget	FY2020 Proposed Budget	Change
4110 - Salaries & Wages	245,294	311,100	318,300	312,400	(5,900)
4120 - Overtime	5,161	6,000	6,000	6,000	0
4130 - Miscellaneous (Payroll)	0	24,300	30,000	30,000	0
Personnel Services	250,455	341,400	354,300	348,400	(5,900)
1110 - Materials & Supplies (Storeroom)	816,255	1,800,000	2,000,000	2,000,000	0
4160 - Meals; Mileage & Uniform Allowances	2,413	4,000	4,000	4,000	0
4265 - Printing	0	0	0	0	0
4420 - Hauling Charges	191,246	160,000	160,000	160,000	0
4430 - Miscellaneous Supplies	4,944	0	0	0	0
4460 - Other Materials & Supplies	44,497	70,000	70,000	70,000	0
4470 - Parts and Accessories	808	0	0	0	0
4720 - Conference Travel & Expenses	375	0	0	0	0
4920 - Non-Potable Water Trtmnt Plt Costs	0	0	0	0	0
4923 - Store Materials & Expense	1,178,984	500,000	700,000	750,000	50,000
8050 - Equipment (under \$5,000)	0	10,060	7,050	1,800	(5,250)
Materials, Supplies and Services	2,239,523	2,544,060	2,941,050	2,985,800	44,750
1270 - General Plant & Equip (over \$5,000)	13,979	0	0	0	0
Equipment	13,979	0	0	0	0
Total Technical & Operational Support Branch	2,503,957	2,885,460	3,295,350	3,334,200	38,850

**Budget Highlights** 

## FO - Field Operations

### 5519 - Maintenance Support Branch

### **Section's Activity**

The Maintenance Support Branch directs and coordinates the activities pertaining to the landscaping and maintenance of grounds, and the maintenance of Beretania Complex buildings and corporation yards.

Account	FY2018 Actual	FY2018 Adopted Budget	FY2019 Adopted Budget	FY2020 Proposed Budget	Change
4110 - Salaries & Wages	0	0	0	228,000	228,000
4120 - Overtime	0	0	0	30,000	30,000
4130 - Miscellaneous (Payroll)	0	0	0	59,600	59,600
Personnel Services	. 0	0	0	317,600	317,600
Total Maintenance Support Branch	0	0	0	317,600	317,600

**Budget Highlights** 



## FO - Field Operations

### 5522 - Grounds Section

### **Section's Activity**

The Grounds Sections is responsible for the maintenance of grounds and landscaped areas at Beretania Complex, Halawa Garden, corporation yards, pump stations, reservoirs, and well sites; maintain BWS access roads from vegetation overgrowth; and prepares, implements, and oversees contracts for private contractors to perform major tree trimming and maintenance work at dam sites.

Account	FY2018 Actual	FY2018 Adopted Budget	FY2019 Adopted Budget	FY2020 Proposed Budget	Change
4110 - Salaries & Wages	744,729	1,051,700	1,096,300	1,915,700	819,400
4120 - Overtime	46,192	60,000	60,000	70,000	10,000
4130 - Miscellaneous (Payroll)	32,125	55,000	73,000	60,000	(13,000)
Personnel Services	823,047	1,166,700	1,229,300	2,045,700	816,400
4160 - Meals; Mileage & Uniform Allowances	2,890	6,000	6,000	6,000	C
4250 - Other Contractual Services	112,257	600,000	580,000	1,358,000	778,000
4460 - Other Materials & Supplies	26,807	60,000	30,000	30,000	(
4500 - Education and Training	220	0	0	0	C
4815 - Repair & Maint - Equipment	2,116	4,800	4,800	5,000	200
8050 - Equipment (under \$5,000)	6,617	8,170	10,900	11,570	670
Materials, Supplies and Services	150,907	678,970	631,700	1,410,570	778,870
Total Maintenance Support Branch	973,953	1,845,670	1,861,000	3,456,270	1,595,270

## **Budget Highlights**

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<sup>• 4250 –</sup> Other Contractual Services: Tree trimming, maintenance at Nuuanu Reservoir dams, Mauna Olu Reservoir dam, Makaha fire breaks.

## FO - Field Operations

## 5553 - Building Custodial Section

## Section's Activity

Maintains Beretania Complex buildings, Kalihi Office buildings, and Kalihi Museum.

Account	FY2018 Actual	FY2018 Adopted Budget	FY2019 Adopted Budget	FY2020 Proposed Budget	Change
4110 - Salaries & Wages	379,578	444,500	460,000	392,000	(68,000)
4120 - Overtime	14,298	13,200	13,200	15,000	1,800
4130 - Miscellaneous (Payroll)	60,636	6,000	9,000	10,000	1,000
Personnel Services	454,512	463,700	482,200	417,000	(65,200)
4160 - Meals; Mileage & Uniform Allowances	1,204	2,400	2,400	2,000	(400)
4250 - Other Contractual Services	1,227	12,000	12,000	13,000	1,000
4460 - Other Materials & Supplies	5,804	6,000	6,000	8,000	2,000
4805 - Repair & Maint - Structures	132	10,000	10,000	10,000	0
4815 - Repair & Maint - Equipment	173	0	0	0	0
8050 - Equipment (under \$5,000)	0	0	4,800	1,230	(3,570)
Materials, Supplies and Services	8,540	30,400	35,200	34,230	(970)
Total Maintenance Support Branch	463,053	494,100	517,400	451,230	(66,170)

## FO - Field Operations

### 5535 - Metropolitan Field Services District

### Section's Activity

Administers the affairs of the Metropolitan Field Services District. Conducts all emergency repair operations and maintenance work involving the water system and appurtenances within the Metropolitan District, including all mains, valves, service connections, fire hydrants, reservoir disinfection work, and appurtenant concrete work; repair reservoirs and buildings; construct pipelines and miscellaneous projects; conducts Sanitary Survey inspection work; and provides clerical support for Engineering & Technical Support Section (5525), and the Maintenance Support Branch (5519).

Account	FY2018 Actual	FY2018 Adopted Budget	FY2019 Adopted Budget	FY2020 Proposed Budget	Change
4110 - Salaries & Wages	0	0	0	4,292,100	4,292,100
4120 - Overtime	0	0	0	700,000	700,000
4130 - Miscellaneous (Payroll)	0	0	0	335,800	335,800
Personnel Services	0	0	0	5,327,900	5,327,900
4160 - Meals; Mileage & Uniform Allowances	0	0	0	50,000	50,000
4250 - Other Contractual Services	0	0	0	477,000	477,000
4460 - Other Materials & Supplies	0	0	0	90,000	90,000
4805 - Repair & Maint - Structures	0	0	0	50,000	50,000
4815 - Repair & Maint - Equipment	0	0	0	5,000	5,000
8050 - Equipment (under \$5,000)	0	0	0	28,400	28,400
Materials, Supplies and Services	0	0	0	700,400	700,400
Total Metropolitan Field Services District	0	0	0	6,028,300	6,028,300

**Budget Highlights** 

## FO - Field Operations

### 5540 - Suburban Field Services District

### Section's Activity

Administers the affairs of the Suburban Field Services Branch. Directs and coordinates the activities pertaining to maintenance of pipelines and appurtenances, building and corporation yards, provides clerical support to sections of the branch (5541 – Manana, 5542 – Wahiawa, 5543 – Waianae, and 5560 Windward).

Account	FY2018 Actual	FY2018 Adopted Budget	FY2019 Adopted Budget	FY2020 Proposed Budget	Change
4110 - Salaries & Wages	77,639	134,000	141,600	95,100	(46,500)
4120 - Overtime	542	0	0	1,000	1,000
Personnel Services	78,182	134,000	141,600	96,100	(45,500)
4160 - Meals; Mileage & Uniform Allowances	81	0	0	0	0
4250 - Other Contractual Services	2,265	0	0	0	0
4430 - Miscellaneous Supplies	. 85	0	0	1,000	1,000
Materials, Supplies and Services	2,431	0	0	1,000	1,000
Total Administration Section	80,613	134,000	141,600	97,100	(44,500)

**Budget Highlights** 

## FO - Field Operations

#### 5541 - Manana Section

### Section's Activity

Conducts all emergency repair operations and maintenance work involving the water system and appurtenances within the Manana District, including all mains, valves, service connections, fire hydrants, reservoir disinfection work, and appurtenant concrete work; repair reservoirs and buildings; construct pipelines and miscellaneous projects; and conducts Sanitary Survey inspection work.

Account	FY2018 Actual	FY2018 Adopted Budget	FY2019 Adopted Budget	FY2020 Proposed Budget	Change
4110 - Salaries & Wages	1,468,946	1,949,300	1,850,300	1,777,000	(73,300)
4120 - Overtime	304,032	265,000	300,000	300,000	0
4130 - Miscellaneous (Payroll)	82,514	164,400	177,000	161,600	(15,400)
Personnel Services	1,855,492	2,378,700	2,327,300	2,238,600	(88,700)
4160 - Meals; Mileage & Uniform Allowances	16,411	20,400	20,400	20,000	(400)
4250 - Other Contractual Services	2,955	41,600	15,000	15,000	0
4460 - Other Materials & Supplies	44,157	30,000	30,000	30,000	0
4815 - Repair & Maint - Equipment	6,229	6,000	6,000	5,000	(1,000)
4910 - Miscellaneous Fees & Registration	51	0	0	0	0
8050 - Equipment (under \$5,000)	14,166	11,770	10,600	19,200	8,600
Materials, Supplies and Services	83,969	109,770	82,000	89,200	7,200
Total Administration Section	1,939,460	2,488,470	2,409,300	2,327,800	(81,500)

**Budget Highlights** 



## FO - Field Operations

### 5542 - Wahiawa Section

### **Section's Activity**

Conducts all emergency repair operations and maintenance work involving the water distribution system and appurtenances within the Wahiawa District, including all mains, valves, service connections, fire hydrants, reservoir disinfection work, and appurtenant concrete work; repair reservoirs and buildings; construct pipelines and miscellaneous projects; and conducts Sanitary Survey inspection work.

Account	FY2018 Actual	FY2018 Adopted Budget	FY2019 Adopted Budget	FY2020 Proposed Budget	Change
4110 - Salaries & Wages	694,841	646,400	667,800	645,300	(22,500)
4120 - Overtime	117,699	120,000	125,000	155,000	30,000
4130 - Miscellaneous (Payroll)	34,309	66,400	70,000	56,400	(13,600)
Personnel Services	846,849	832,800	862,800	856,700	(6,100)
4160 - Meals; Mileage & Uniform Allowances	6,467	9,000	9,000	11,000	2,000
4250 - Other Contractual Services	1,163	700	1,400	0	(1,400)
4460 - Other Materials & Supplies	9,339	8,000	8,000	8,000	0
4815 - Repair & Maint - Equipment	2,140	2,000	2,000	3,000	1,000
4910 - Miscellaneous Fees & Registration	152	0	0	0	0
8050 - Equipment (under \$5,000)	11,157	13,300	11,000	9,900	(1,100)
Materials, Supplies and Services	30,417	33,000	31,400	31,900	500
Total Administration Section	877,265	865,800	894,200	888,600	(5,600)

## FO - Field Operations

#### 5543 - Waianae Section

#### Section's Activity

Conducts all emergency repair operations and maintenance work involving the water distribution system and appurtenances within the Waianae District, including all mains, valves, service connections, fire hydrants, reservoir disinfection work, and appurtenant concrete work; repair reservoirs and buildings; construct pipelines and miscellaneous projects; and conducts Sanitary Survey inspection work.

Account	FY2018 Actual	FY2018 Adopted Budget	FY2019 Adopted Budget	FY2020 Proposed Budget	Change
4110 - Salaries & Wages	638,514	670,600	695,800	776,900	81,100
4120 - Overtime	180,434	168,000	190,000	230,000	40,000
4130 - Miscellaneous (Payroll)	51,744	78,200	75,000	81,200	6,200
Personnel Services	870,692	916,800	960,800	1,088,100	127,300
4160 - Meals; Mileage & Uniform Allowances	9,832	9,000	9,000	17,000	8,000
4250 - Other Contractual Services	0	700	700	0	(700)
4460 - Other Materials & Supplies	2,933	6,000	6,000	6,200	200
4815 - Repair & Maint - Equipment	365	2,000	2,000	2,500	500
8050 - Equipment (under \$5,000)	8,278	9,600	4,500	4,400	(100)
Materials, Supplies and Services	21,408	27,300	22,200	30,100	7,900
Total Administration Section	892,100	944,100	983,000	1,118,200	135,200

**Budget Highlights** 

## FO - Field Operations

#### 5560 - Windward Branch

#### Section's Activity

Conducts all emergency repair operations and maintenance work involving the water distribution system and appurtenances within the Windward District, including all mains, valves, service connections, fire hydrants, reservoir disinfection work, and appurtenant concrete work; repair reservoirs and buildings; construct pipelines and miscellaneous projects; and conducts Sanitary Survey inspection work.

Account	FY2018 Actual	FY2018 Adopted Budget	FY2019 Adopted Budget	FY2020 Proposed Budget	Change
4110 - Salaries & Wages	1,153,944	1,438,600	1,461,400	1,609,500	148,100
4120 - Overtime	136,587	135,000	155,000	130,000	(25,000)
4130 - Miscellaneous (Payroll)	62,408	184,400	153,000	102,400	(50,600)
Personnel Services	1,352,939	1,758,000	1,769,400	1,841,900	72,500
4160 - Meals; Mileage & Uniform Allowances	8,573	12,000	12,000	12,000	0
4250 - Other Contractual Services	1,241	5,700	2,500	0	(2,500)
4410 - Gasoline	20	0	0	0	0
4460 - Other Materials & Supplies	9,654	14,000	14,000	14,000	0
4815 - Repair & Maint - Equipment	1,122	3,500	0	2,500	2,500
4910 - Miscellaneous Fees & Registration	41	0	0	0	0
8050 - Equipment (under \$5,000)	11,483	5,650	14,300	6,150	(8,150)
Materials, Supplies and Services	32,133	40,850	42,800	34,650	(8,150)
Total Administration Section	1,385,072	1,798,850	1,812,200	1,876,550	64,350

**Budget Highlights** 



## FO - Field Operations

#### 5510 - Distribution Branch Administration

## Section's Activity

The Distribution Branch directs and coordinates the activities pertaining to maintenance of pipelines, appurtenances, buildings and corporation yards; coordinates and directs the maintenance of grounds; provides clerical support to sections of the division branch.

Account	FY2018 Actual	FY2018 Adopted Budget	FY2019 Adopted Budget	FY2020 Proposed Budget	Change
4110 - Salaries & Wages	211,935	264,400	272,000	0	(272,000)
4120 - Overtime	1,034	2,400	2,400	0	(2,400)
4130 - Miscellaneous (Payroll)	0	10,000	10,000	0	(10,000)
Personnel Services	212,969	276,800	284,400	0	(284,400)
4160 - Meals; Mileage & Uniform Allowances	248	0	0	0	O
4230 - Emergency & Contracted Road Repairs	5,381,721	6,000,000	7,000,000	0	(7,000,000)
4250 - Other Contractual Services	36,163	2,400	257,400	0	(257,400)
4430 - Miscellaneous Supplies	8,432	10,000	7,500	0	(7,500)
4460 - Other Materials & Supplies	8	0	0	0	C
4500 - Education and Training	100	0	0	0	C
4915 - Miscellaneous Financial Expenses	57,970	0	0	0	(
8050 - Equipment (under \$5,000)	0	0	0	0	C
Materials, Supplies and Services	5,484,642	6,012,400	7,264,900	0	(7,264,900)
1270 - General Plant & Equip (over \$5,000)	0	0	0	0	C
Equipment	0	0	0	0	C
Total Distribution Branch Administration	5,697,611	6,289,200	7,549,300	0	(7,549,300)

**Budget Highlights** 

## FO - Field Operations

#### 5520 - Administration Unit

#### **Section's Activity**

The Maintenance Section (5520 – Administration Unit, 5521 – Hydrant & Valves Unit, and 5522 – Grounds and Landscaping Unit) installs, operates and maintains valves, hydrants and appurtenances, disinfects reservoirs and mains, conducts tapping anf pipe cutting operations, maintains the metropolitan gravity system, corporation yards, grounds and landscaped areas; conducts inspections of the distribution system and facilities.

Account	FY2018 Actual	FY2018 Adopted Budget	FY2019 Adopted Budget	FY2020 Proposed Budget	Change
4110 - Salaries & Wages	157,638	186,900	173,400	0	(173,400)
4120 - Overtime	9,726	2,400	10,000	o	(10,000)
4130 - Miscellaneous (Payroll)	5,260	28,800	11,000	0	(11,000)
Personnel Services	172,624	218,100	194,400	0	(194,400)
4160 - Meals; Mileage & Uniform Allowances	1,396	0	1,500	0	(1,500)
4250 - Other Contractual Services	230,231	0	0	0	0
4280 - Refuse Collection & Disposal	661,421	550,000	840,000	0	(840,000)
4460 - Other Materials & Supplies	5,713	0	0	0	0
4815 - Repair & Maint - Equipment	298	0	0	0	0
4820 - Repair & Maint - Distribution	23,437	0	0	0	0
4910 - Miscellaneous Fees & Registration	0	0	0	0	0
Materials, Supplies and Services	922,496	550,000	841,500	0	(841,500)
Total Administration Unit	1,095,120	768,100	1,035,900	0	(1,035,900)

**Budget Highlights** 



FO - Field Operations

5521 - Hydrants and Valves

Section's Activity

Account	FY2018 Actual	FY2018 Adopted Budget	FY2019 Adopted Budget	FY2020 Proposed Budget	Change
4110 - Salaries & Wages	1,167,093	1,584,800	1,549,000	0	(1,549,000)
4120 - Overtime	267,627	160,000	230,000	0	(230,000)
4130 - Miscellaneous (Payroll)	59,928	141,800	148,000	0	(148,000)
Personnel Services	1,494,649	1,886,600	1,927,000	0	(1,927,000)
4160 - Meals; Mileage & Uniform Allowances	16,393	10,800	15,000	0	(15,000)
4250 - Other Contractual Services	10,237	0	0	0	0
4460 - Other Materials & Supplies	31,107	35,000	35,000	0	(35,000)
4500 - Education and Training	156	0	0	0	0
4815 - Repair & Maint - Equipment	1,947	4,800	4,800	0	(4,800)
8050 - Equipment (under \$5,000)	4,301	22,350	23,300	0	(23,300)
Materials, Supplies and Services	64,141	72,950	78,100	0	(78,100)
Total Hydrants and Valves	1,558,790	1,959,550	2,005,100	0	(2,005,100)

**Budget Highlights** 



## **FO - Field Operations**

## 5530 - Construction

#### **Section's Activity**

The Construction Section conducts all major emergency repair operations involving water mains, reservoirs and appurtenances; constructs pipelines and appurtenances and miscellaneous projects; conducts all carpentry, masonry and heavy equipment operations.

Account	FY2018 Actual	FY2018 Adopted Budget	FY2019 Adopted Budget	FY2020 Proposed Budget	Change
4110 - Salaries & Wages	1,609,410	2,191,100	1,981,000	0	(1,981,000)
4120 - Overtime	440,368	450,000	450,000	0	(450,000)
4130 - Miscelianeous (Payroli)	66,798	265,800	219,000	0	(219,000)
Personnel Services	2,116,576	2,906,900	2,650,000	0	(2,650,000)
4160 - Meals; Mileage & Uniform Allowances	23,634	36,000	36,000	0	(36,000)
4250 - Other Contractual Services	67,735	48,000	48,000	0	(48,000)
4460 - Other Materials & Supplies	69,901	48,000	48,000	0	(48,000)
4470 - Parts and Accessories	354	0	0	0	0
4805 - Repair & Maint - Structures	10,058	50,000	50,000	0	(50,000)
4815 - Repair & Maint - Equipment	6,045	0	0	0	0
4910 - Miscellaneous Fees & Registration	51	0	0	0	0
8050 - Equipment (under \$5,000)	12,734	8,650	7,775	0	(7,775)
Materials, Supplies and Services	190,513	190,650	189,775	0	(189,775)
Total Construction	2,307,089	3,097,550	2,839,775	0	(2,839,775)

**Budget Highlights** 

## FO - Field Operations

5550 - District Services

Section's Activity

Account	FY2018 Actual	FY2018 Adopted Budget	FY2019 Adopted Budget	FY2020 Proposed Budget	Change
4120 - Overtime	0	0	0	0	0
Personnel Services	0_	0	0	0	0
4160 - Meals; Mileage & Uniform Allowances	172	0	0	0	0
4250 - Other Contractual Services	772	0	0	0	0
4460 - Other Materials & Supplies	71	0	0	0	0
Materials, Supplies and Services	1,014	0	0	0	0
Total District Services	1,014	0	0	0	0

**Budget Highlights** 

# **FO - Field Operations**

## 5551 - Service Connections

#### **Section's Activity**

Service Connections installs new service connections and meters; and maintains, repairs, and renews service connections.

Account	FY2018 Actual	FY2018 Adopted Budget	FY2019 Adopted Budget	FY2020 Proposed Budget	Change
4110 - Salaries & Wages	183,060	418,700	383,900	0	(383,900)
4120 - Overtime	23,356	84,000	48,000	0	(48,000)
4130 - Miscelfaneous (Payroll)	67,002	62,000	67,000	0	(67,000)
Personnel Services	273,419	564,700	498,900	0	(498,900)
4160 - Meals; Mileage & Uniform Allowances	1,883	6,000	4,000	0	(4,000)
Materials, Supplies and Services	1,883	6,000	4,000	0	(4,000)
Total Service Connections	275,302	570,700	502,900	0	(502,900)

**Budget Highlights** 

## **CP - Capital Projects**

#### Division/Office's Activity

The Capital Projects Division develops and directs engineering policy and programs to carry out the Department's mission, vision, goals and objectives; formulates and implements the annual Capital Improvement Program budget; develops, implements and maintains programs to address water infrastructure needs; ensures all improvements to the municipal water system are designed and constructed in compliance with the Department's standards and policies; coordinates construction schedules and requirements between operational units and external entities; and provides advisory services to other units and staff services for executive decision-making.

Account	FY2018 Actual	FY2018 Adopted Budget	FY2019 Adopted Budget	FY2020 Proposed Budget	Change
4110 - Salaries & Wages	4,393,632	4,667,400	5,511,000	5,573,900	62,900
4120 - Overtime	360,839	435,100	490,100	490,100	0
4130 - Miscellaneous (Payroll)	3,253	494,000	214,000	317,300	103,300
Personnel Services	4,757,725	5,596,500	6,215,100	6,381,300	166,200
4160 - Meals; Mileage & Uniform Allowances	20,309	23,300	22,500	24,300	1,800
4250 - Other Contractual Services	242,851	900,000	895,600	917,200	21,600
4260 - Advertising & Publication of Notices	972	5,000	5,000	5,000	C
4270 - Professional Services	1,300	0	0	0	C
4430 - Miscellaneous Supplies	4,886	8,400	3,000	3,000	C
4460 - Other Materials & Supplies	8,351	8,500	36,800	41,600	4,800
4500 - Education and Training	5,194	23,800	25,250	43,100	17,850
4720 - Conference Travel & Expenses	9,759	18,000	21,400	22,000	600
4815 - Repair & Maint - Equipment	4,008	5,000	5,300	5,300	C
4910 - Miscellaneous Fees & Registration	179	23,000	850	1,050	200
8050 - Equipment (under \$5,000)	17,074	8,200	6,200	6,150	(50)
Materials, Supplies and Services	314,883	1,023,200	1,021,900	1,068,700	46,800
1270 - General Plant & Equip (over \$5,000)	18,164	21,000	113,000	81,000	(32,000)
Equipment	18,164	21,000	113,000	81,000	(32,000
Total CP - Capital Projects	5,090,772	6,640,700	7,350,000	7,531,000	181,000

Notes

# **CP - Capital Projects**

#### 5565 - Administration

#### **Section's Activity**

Engineering Administration develops and directs programs involving the planning, design, inspection and execution of all projects that are incorporated into the public water system

Account	FY2018 Actual	FY2018 Adopted Budget	FY2019 Adopted Budget	FY2020 Proposed Budget	Change
4110 - Salaries & Wages	402,568	526,400	523,800	568,300	44,500
4130 - Miscellaneous (Payroll)	300	56,100	0	300	300
Personnel Services	402,868	582,500	523,800	568,600	44,800
4160 - Meals; Mileage & Uniform Allowances	0	0	200	0	(200)
4250 - Other Contractual Services	22,257	600,000	609,600	619,200	9,600
4260 - Advertising & Publication of Notices	632	5,000	5,000	5,000	0
4270 - Professional Services	0	0	0	0	0
4430 - Miscellaneous Supplies	3,062	2,500	2,500	2,500	0
4460 - Other Materials & Supplies	124	0	23,500	23,500	0
4500 - Education and Training	307	3,400	4,650	4,650	0
4720 - Conference Travel & Expenses	3,011	4,800	5,000	2,300	(2,700)
4815 - Repair & Maint - Equipment	0	1,000	1,000	1,000	0
4910 - Miscellaneous Fees & Registration	99	22,500	350	550	200
8050 - Equipment (under \$5,000)	12,105	0	0	500	500
Materials, Supplies and Services	41,597	639,200	651,800	659,200	7,400
1270 - General Plant & Equip (over \$5,000)	0	0	8,000	8,000	0
Equipment	0	0	8,000	8,000	0
Total Administration	444,465	1,221,700	1,183,600	1,235,800	52,200

**Budget Highlights** 

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## **CP - Capital Projects**

## 5570 - Design & Plans Review

#### Section's Activity

The Design and Plans Review Branch formulates design and construction projects to address the needs of the Department; prepares and reviews plans, specifications, and cost estimates; coordinates and secures all necessary project approvals, permits and clearances for modifications or extensions to the municipal water system; and reviews all public and private construction plans for conformance with the Department's standards and policies and approved water master plans

Account	FY2018 Actual	FY2018 Adopted Budget	FY2019 Adopted Budget	FY2020 Proposed Budget	Change
4110 - Salaries & Wages	857,354	871,800	1,097,300	1,089,800	(7,500)
4120 - Overtime	64,356	90,000	72,000	72,000	0
4130 - Miscellaneous (Payroll)	0	60,000	14,000	4,000	(10,000)
Personnel Services	921,710	1,021,800	1,183,300	1,165,800	(17,500)
4160 - Meals; Mileage & Uniform Allowances	1,251	4,000	2,000	2,000	0
4250 - Other Contractual Services	800	0	0	0	0
4270 - Professional Services	1,300	0	0	0	0
4430 - Miscellaneous Supplies	105	0	0	O	0
4460 - Other Materials & Supplies	2,106	2,000	2,000	2,000	0
4500 - Education and Training	2,862	6,200	7,500	7,500	0
4720 - Conference Travel & Expenses	1,782	2,800	3,800	3,600	(200)
8050 - Equipment (under \$5,000)	0	5,800	3,000	1,400	(1,600)
Materials, Supplies and Services	10,207	20,800	18,300	16,500	(1,800)
1270 - General Plant & Equip (over \$5,000)	0	0	32,000	0	(32,000)
Equipment	0	0	32,000	0	(32,000)
Total Design & Plans Review	931,916	1,042,600	1,233,600	1,182,300	(51,300)

**Budget Highlights** 

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## **CP - Capital Projects**

#### 5575 - Construction

#### **Section's Activity**

The Construction Branch administers the Department's construction contracts; plans and coordinates construction schedules; oversees all construction activities associated with projects that impact BWS facilities and assets; and ensures all construction, whether by the BWS or by other public and private interests, is completed in accordance with approved construction and accepted engineering practices in accordance with the Department's standards and policies, and approved construction plans and specifications

Account	FY2018 Actual	FY2018 Adopted Budget	FY2019 Adopted Budget	FY2020 Proposed Budget	Change
4110 - Salaries & Wages	2,036,746	2,020,400	2,440,800	2,503,400	62,600
4120 - Overtime	294,539	340,000	413,000	413,000	0
4130 - Miscellaneous (Payroll)	2,953	317,100	200,000	305,000	105,000
Personnel Services	2,334,238	2,677,500	3,053,800	3,221,400	167,600
4160 - Meals; Mileage & Uniform Allowances	19,018	19,000	20,000	22,000	2,000
4250 - Other Contractual Services	22,951	30,000	24,000	30,000	6,000
4430 - Miscellaneous Supplies	0	500	500	500	0
4460 - Other Materials & Supplies	4,510	6,500	6,500	6,500	0
4500 - Education and Training	35	6,400	6,800	24,050	17,250
4720 - Conference Travel & Expenses	3,013	7,200	7,600	9,200	1,600
4910 - Miscellaneous Fees & Registration	80	500	500	500	0
8050 - Equipment (under \$5,000)	0	0	0	1,500	1,500
Materials, Supplies and Services	49,607	70,100	65,900	94,250	28,350
1270 - General Plant & Equip (over \$5,000)	0	0	24,000	24,000	0
Equipment	0	0	24,000	24,000	0
Total Construction	2,383,845	2,747,600	3,143,700	3,339,650	195,950

**Budget Highlights** 



## **CP - Capital Projects**

#### 5580 - Support

#### Section's Activity

The Engineering Support Branch formulates the Department's annual Capital Improvement Program budget; prepares and administers agreements with public agencies and private developers; prepares and reviews plans, specifications, cost estimates and other necessary documents, and coordinates and secures all necessary project approvals, permits and clearances for the Department's facility repair and replacement construction projects; develops and implements programs for facility renovations, asset replacement, and fire protection improvement; provides technical research, assistance, expertise and advice throughout the Department; and develops and maintains the Department's water system standards and conducts research and product trials to evaluate new materials and equipment.

Account	FY2018 Actual	FY2018 Adopted Budget	FY2019 Adopted Budget	FY2020 Proposed Budget	Change
4110 - Salaries & Wages	545,185	664,500	746,200	732,600	(13,600)
4120 - Overtime	1,542	3,000	3,000	3,000	0
4130 - Miscellaneous (Payroll)	0	26,500	0	4,000	4,000
Personnel Services	546,727	694,000	749,200	739,600	(9,600)
4160 - Meals; Mileage & Uniform Allowances	30	100	100	100	0
4250 - Other Contractual Services	17,600	10,000	12,000	18,000	6,000
4430 - Miscellaneous Supplies	1,615	4,200	0	0	0
4460 - Other Materials & Supplies	1,001	0	3,600	3,600	0
4500 - Education and Training	1,484	6,000	4,500	4,500	0
4720 - Conference Travel & Expenses	1,052	600	2,500	2,300	(200)
4815 - Repair & Maint - Equipment	4,008	4,000	4,300	4,300	0
8050 - Equipment (under \$5,000)	0	1,400	2,200	1,250	(950)
Materials, Supplies and Services	26,790	26,300	29,200	34,050	4,850
1270 - General Plant & Equip (over \$5,000)	0	0	24,000	24,000	0
Equipment	0	0	24,000	24,000	0
Total Support	573,516	720,300	802,400	797,650	(4,750)

**Budget Highlights** 



## **CP - Capital Projects**

#### 5582 - Mechanical and Electrical

#### Section's Activity

The Mechanical and Electrical Engineering Branch oversees the design and installation of mechanical and electrical equipment and systems throughout the municipal water system; prepares plans, specifications, and cost estimates and coordinates and secures all necessary project approvals, permits and clearances for the construction of electrical and mechanical system installations and pump and motor repairs, renewals and replacement work in accordance with the Department's requirements; provides technical assistance and conducts field inspections, troubleshooting, pilot testing, and final acceptance inspections of mechanical and electrical components; monitors, evaluates, incorporates, and optimizes BWS equipment standards; and provides technical assistance, expertise, and advice on daily operation of pump and power facilities, equipment renewal and upgrade programs, continuity of service, and maintenance.

Account	FY2018 Actual	FY2018 Adopted Budget	FY2019 Adopted Budget	FY2020 Proposed Budget	Change
4110 - Salaries & Wages	551,780	584,300	702,900	679,800	(23,100)
4120 - Overtime	403	2,100	2,100	2,100	0
4130 - Miscelfaneous (Payroll)	0	34,300	0	4,000	4,000
Personnel Services	552,182	620,700	705,000	685,900	(19,100)
4160 - Meals; Mileage & Uniform Allowances	10	200	200	200	0
4250 - Other Contractual Services	179,243	260,000	250,000	250,000	0
4260 - Advertising & Publication of Notices	340	0	0	0	0
4430 - Miscellaneous Supplies	105	1,200	0	0	0
4460 - Other Materials & Supplies	609	0	1,200	6,000	4,800
4500 - Education and Training	506	1,800	1,800	2,400	600
4720 - Conference Travel & Expenses	900	2,600	2,500	4,600	2,100
8050 - Equipment (under \$5,000)	4,969	1,000	1,000	1,500	500
Materials, Supplies and Services	186,683	266,800	256,700	264,700	8,000
1270 - General Plant & Equip (over \$5,000)	18,164	21,000	25,000	25,000	0
Equipment	18,164	21,000	25,000	25,000	0
Total Mechanical and Electrical	757,029	908,500	986,700	975,600	(11,100)

**Budget Highlights** 



## **WSO - Water System Operations**

## Division/Office's Activity

The Water System Operations Division is responsible for the operations and maintenance of pumping and water treatment plant equipment, plant facilities, and communications and electronic control systems. It maintains a 24-hour watch over the department's island-wide water systems and departmental electrical and emergency power supply systems. The unit also purchases, maintains, and repairs the department's vehicles and construction equipment.

Account	FY2018 Actual	FY2018 Adopted Budget	FY2019 Adopted Budget	FY2020 Proposed Budget	Change
4110 - Salaries & Wages	5,018,269	5,648,200	6,174,000	6,169,700	(4,300)
4120 - Overtime	665,041	579,200	650,000	697,000	47,000
4130 - Miscellaneous (Payroll)	83,363	105,800	141,300	57,800	(83,500)
Personnel Services	5,766,673	6,333,200	6,965,300	6,924,500	(40,800)
4160 - Meals; Mileage & Uniform Allowances	31,681	35,350	35,350	40,200	4,850
4250 - Other Contractual Services	228,814	312,500	312,500	635,900	323,400
4251 - Software Licenses and Maintenance	2,743	50,000	19,000	19,000	0
4267 - Printed forms	328	100	100	300	200
4270 - Professional Services	359,717	720,000	150,000	1,200,000	1,050,000
4280 - Refuse Collection & Disposal	173	0	0	0	C
4410 - Gasoline	594,614	823,200	803,200	803,200	C
4430 - Miscellaneous Supplies	9,904	9,300	33,800	18,400	(15,400)
4440 - Motor Vehicle Parts & Accessories	431,593	452,000	452,000	452,000	Ċ
4460 - Other Materials & Supplies	1,617,132	2,860,900	2,735,200	2,743,400	8,200
4470 - Parts and Accessories	869,828	651,400	631,400	732,000	100,600
4480 - Postage	140	0	0	0	
4500 - Education and Training	42,093	50,900	50,900	54,750	3,850
4670 - Telemetering	307,142	240,000	240,000	240,000	C
4720 - Conference Travel & Expenses	5,059	14,100	14,400	17,200	2,800
4805 - Repair & Maint - Structures	37,289	52,000	40,000	40,000	C
4815 - Repair & Maint - Equipment	1,483,370	1,397,800	1,407,200	1,352,200	(55,000)
4910 - Miscellaneous Fees & Registration	15,293	6,500	3,500	3,500	
8050 - Equipment (under \$5,000)	294,389	842,200	667,000	661,700	(5,300
Materials, Supplies and Services	6,331,300	8,518,250	7,595,550	9,013,750	1,418,200
1270 - General Plant & Equip (over \$5,000)	3,939,240	4,772,800	4,121,500	6,012,800	1,891,300
Equipment	3,939,240	4,772,800	4,121,500	6,012,800	1,891,30
Total WSO - Water System Operations	16,037,213	19,624,250	18,682,350	21,951,050	3,268,700

Notes

# **WSO - Water System Operations**

## 5600 - Operations Administration

## Section's Activity

Administers the affairs of the Water System Operations Division; provides engineering and clerical support to sections within the unit.

Account	FY2018 Actual	FY2018 Adopted Budget	FY2019 Adopted Budget	FY2020 Proposed Budget	Change
4110 - Salaries & Wages	382,008	378,500	452,200	434,300	(17,900)
4120 - Overtime	47,588	7,200	20,000	28,000	8,000
4130 - Miscellaneous (Payroll)	0	15,300	600	600	0
Personnel Services	429,596	401,000	472,800	462,900	(9,900)
4160 - Meals; Mileage & Uniform Allowances	916	600	600	800	200
4250 - Other Contractual Services	15,363	18,000	24,000	36,000	12,000
4251 - Software Licenses and Maintenance	0	46,000	15,000	15,000	0
4270 - Professional Services	359,717	720,000	150,000	1,200,000	1,050,000
4430 - Miscellaneous Supplies	7,806	4,800	4,800	6,000	1,200
4460 - Other Materials & Supplies	17,297	0	0	0	0
4500 - Education and Training	1,423	1,700	1,700	1,700	0
4720 - Conference Travel & Expenses	3,411	2,900	3,200	2,800	(400)
4910 - Miscellaneous Fees & Registration	523	600	600	600	0
8050 - Equipment (under \$5,000)	0	0	0	0	0
Materials, Supplies and Services	406,456	794,600	199,900	1,262,900	1,063,000
Total Operations Administration	836,052	1,195,600	672,700	1,725,800	1,053,100

**Budget Highlights** 



## **WSO - Water System Operations**

#### 5610 - Plant Operations

#### **Section's Activity**

The Pumps Section operates, maintains, repairs and installs equipment of the pumping systems consisting of electrical pumping plants, booster pumping stations, water treatment plants, hydraulic turbine pumping units, water treatment stations, reservoirs, reservoir altitude valves, in-line check and hydraulically-operated butterfly valves and pressure-regulating valves, aerators, meters and gauges, repair shops, buildings and structures, air conditioners, exhaust blowers and fans, auxiliary pumping and water treatment equipment; regulates the water supply within the water distribution systems through the use of a variety of mechanically and electrically-operated supervisory controls; operates the department's after-hour control center; maintains a 24-hour watch over department's island-wide water system.

Account	FY2018 Actual	FY2018 Adopted Budget	FY2019 Adopted Budget	FY2020 Proposed Budget	Change
4110 - Salaries & Wages	331,336	208,700	261,500	256,100	(5,400)
4120 - Overtime	25,773	9,000	9,000	14,000	5,000
4130 - Miscellaneous (Payroli)	26,378	1,200	27,200	1,200	(26,000)
Personnel Services	383,488	218,900	297,700	271,300	(26,400)
4160 - Meals; Mileage & Uniform Allowances	959	300	300	700	400
4250 - Other Contractual Services	38,472	4,800	4,800	12,000	7,200
4251 - Software Licenses and Maintenance	0	0	0	0	(
4430 - Miscellaneous Supplies	1,300	2,500	27,000	11,000	(16,000
4460 - Other Materials & Supplies	1,411,675	2,573,000	2,433,400	2,465,400	32,000
4470 - Parts and Accessories	23,145	0	0	0	(
4500 - Education and Training	5,700	1,600	1,600	4,800	3,200
4720 - Conference Travel & Expenses	1,648	1,200	1,200	5,600	4,400
4805 - Repair & Maint - Structures	37,289	48,000	36,000	36,000	(
4815 - Repair & Maint - Equipment	1,168,351	821,800	864,200	838,200	(26,000)
4910 - Miscellaneous Fees & Registration	12,629	3,000	0	0	(
8050 - Equipment (under \$5,000)	15,933	52,000	24,000	25,000	1,000
Materials, Supplies and Services	2,717,099	3,508,200	3,392,500	3,398,700	6,206
1270 - General Plant & Equip (over \$5,000)	0	100,000	10,000	40,000	30,000
Equipment	0	100,000	10,000	40,000	30,000
Total Plant Operations	3,100,586	3,827,100	3,700,200	3,710,000	9,800

**Budget Highlights** 

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# **WSO - Water System Operations**

## 5611 - District 1 Leeward West Section

#### Section's Activity

District 1 consists of the stations on the leeward side of the island from Waipahu to Makaha. Granular activated carbon filtration plants are located at Hoaeae Wells; Waipahu Wells I, II, III, and IV; Kunia Wells I and II; and Waipio Heights Wells III.

Account	FY2018 Actual	FY2018 Adopted Budget	FY2019 Adopted Budget	FY2020 Proposed Budget	Change
4110 - Salaries & Wages	405,908	522,500	556,900	603,100	46,200
4120 - Overtime	73,942	144,000	144,000	138,000	(6,000)
4130 - Miscellaneous (Payroll)	6,000	6,000	13,000	6,000	(7,000)
Personnel Services	485,850	672,500	713,900	747,100	33,200
4160 - Meals; Mileage & Uniform Allowances	4,019	7,000	7,000	7,000	0
4460 - Other Materials & Supplies	20,196	34,000	36,000	36,000	0
4470 - Parts and Accessories	144,122	212,400	142,000	142,000	0
4500 - Education and Training	7,791	4,800	4,800	4,900	100
4720 - Conference Travel & Expenses	0	1,200	1,200	900	(300)
4815 - Repair & Maint - Equipment	0	12,000	12,000	12,000	0
8050 - Equipment (under \$5,000)	64	87,000	59,000	50,000	(9,000)
Materials, Supplies and Services	176,193	358,400	262,000	252,800	(9,200)
1270 - General Plant & Equip (over \$5,000)	20,748	120,000	60,000	30,000	(30,000)
Equipment	20,748	120,000	60,000	30,000	(30,000)
Total District 1 Leeward West Section	682,791	1,150,900	1,035,900	1,029,900	(6,000)

**Budget Highlights** 

## **WSO - Water System Operations**

#### 5612 - District 2 Central/Windward Section

#### Section's Activity

District 2 consists of the stations on the windward, central, and north shore areas of the island from Waimanalo to Kahuku to Mokulela to Mililani. Granular activated carbon filtration plants are located at Waialua Wells; Haleiwa Wells; and Mililani Wells I and III.

Account	FY2018 Actual	FY2018 Adopted Budget	FY2019 Adopted Budget	FY2020 Proposed Budget	Change
4110 - Salaries & Wages	474,061	585,100	648,800	686,000	37,200
4120 - Overtime	187,268	90,000	120,000	136,000	16,000
4130 - Miscellaneous (Payroll)	7,000	31,600	13,000	6,000	(7,000)
Personnel Services	668,329	706,700	781,800	828,000	46,200
4160 - Meals; Mileage & Uniform Allowances	8,976	6,100	6,100	8,400	2,300
4460 - Other Materials & Supplies	7,638	38,000	43,500	33,300	(10,200)
4470 - Parts and Accessories	158,319	72,000	92,200	113,000	20,800
4500 - Education and Training	6,877	4,800	4,800	4,900	100
4720 - Conference Travel & Expenses	0	1,200	1,200	900	(300)
4815 - Repair & Maint - Equipment	4,230	37,000	20,000	52,000	32,000
8050 - Equipment (under \$5,000)	35,330	65,300	67,000	74,000	7,000
Materials, Supplies and Services	221,370	224,400	234,800	286,500	51,700
1270 - General Plant & Equip (over \$5,000)	7,348	10,000	0	0	0
Equipment	7,348	10,000	0	0	0
Total District 2 Central/Windward Section	897,047	941,100	1,016,600	1,114,500	97,900

**Budget Highlights** 



# **WSO - Water System Operations**

## 5613 - District 3 Metropolitan Section

## Section's Activity

District 3 consists of the stations in Metropolitan Honolulu from Kalihi to Makapuu.

Account	FY2018 Actual	FY2018 Adopted Budget	FY2019 Adopted Budget	FY2020 Proposed Budget	Change
4110 - Salaries & Wages	476,054	496,000	611,200	594,000	(17,200)
4120 - Overtime	108,416	60,000	80,000	110,000	30,000
4130 - Miscelianeous (Payroll)	8,552	6,000	12,000	6,000	(6,000)
Personnel Services	593,021	562,000	703,200	710,000	6,800
4160 - Meals; Mileage & Uniform Allowances	4,999	3,300	3,300	6,000	2,700
4440 - Motor Vehicle Parts & Accessories	418	0	0	0	0
4460 - Other Materials & Supplies	17,958	17,900	17,900	18,900	1,000
4470 - Parts and Accessories	126,724	100,000	103,000	133,000	30,000
4500 - Education and Training	5,517	4,800	4,800	4,900	100
4720 - Conference Travel & Expenses	0	1,200	1,200	900	(300)
4815 - Repair & Maint - Equipment	6,046	12,000	12,000	16,000	4,000
8050 - Equipment (under \$5,000)	51,587	37,200	55,200	57,500	2,300
Materials, Supplies and Services	213,251	176,400	197,400	237,200	39,800
1270 - General Plant & Equip (over \$5,000)	35,173	30,000	50,000	70,000	20,000
Equipment	35,173	30,000	50,000	70,000	20,000
Total District 3 Metropolitan Section	841,445	768,400	950,600	1,017,200	66,600

**Budget Highlights** 



# **WSO - Water System Operations**

## 5614 - District 4 Leeward East Section

#### Section's Activity

District 4 consists of the stations from Kalihi to Pearl City.

Account	FY2018 Actual	FY2018 Adopted Budget	FY2019 Adopted Budget	FY2020 Proposed Budget	Change
4110 - Salaries & Wages	414,284	593,400	669,700	730,400	60,700
4120 - Overtime	35,127	40,000	60,000	75,000	15,000
4130 - Miscellaneous (Payroll)	6,000	4,800	12,800	6,000	(6,800)
Personnel Services	455,411	638,200	742,500	811,400	68,900
4160 - Meals; Mileage & Uniform Allowances	2,735	5,650	5,650	5,500	(150)
4460 - Other Materials & Supplies	6,192	20,100	22,500	19,300	(3,200)
4470 - Parts and Accessories	185,210	70,000	87,200	137,000	49,800
4500 - Education and Training	8,094	4,800	4,800	4,900	100
4720 - Conference Travel & Expenses	0	1,200	1,200	900	(300)
4815 - Repair & Maint - Equipment	3,485	12,000	12,000	12,000	0
8050 - Equipment (under \$5,000)	16,721	80,500	64,300	78,500	14,200
Materials, Supplies and Services	222,437	194,250	197,650	258,100	60,450
1270 - General Plant & Equip (over \$5,000)	7,348	0	0	0	0
Equipment	7,348	0	0	0	0
Total District 4 Leeward East Section	685,196	832,450	940,150	1,069,500	129,350

**Budget Highlights** 



## **WSO - Water System Operations**

5615 - Control Center

#### Section's Activity

Operates the department's island-wide water system on a 24/7 basis. Is responsible for maintaining proper system pressure and levels to meet the needs of our customers. Due to its round-the-clock operation, the Control Center has the responsibility of being the point of contact for the public outside of BWS regular working hours.

Account	FY2018 Actual	FY2018 Adopted Budget	FY2019 Adopted Budget	FY2020 Proposed Budget	Change
4110 - Salaries & Wages	557,903	631,800	674,400	720,400	46,000
4120 - Overtime	142,218	120,000	120,000	120,000	0
4130 - Miscellaneous (Payroll)	5,000	4,000	9,000	2,000	(7,000)
Personnel Services	705,122	755,800	803,400	842,400	39,000
4160 - Meals; Mileage & Uniform Allowances	6,369	6,000	6,000	6,000	0
4460 - Other Materials & Supplies	0	0	0	0	0
4500 - Education and Training	401	4,800	4,800	4,900	100
4720 - Conference Travel & Expenses	0	1,200	1,200	1,800	600
8050 - Equipment (under \$5,000)	0	1,800	3,300	35,300	32,000
Materials, Supplies and Services	6,770	13,800	15,300	48,000	32,700
Total Control Center	711,891	769,600	818,700	890,400	71,700

**Budget Highlights** 

## **WSO - Water System Operations**

#### 5616 - Technical Services

#### Section's Activity

The Pumps and Technical Services Section operates, maintains, repairs, and installs air conditioners, exhaust blowers, fans, and electrical power at Beretania and the five outlying base yards; and maintains flow tubes.

Account	FY2018 Actual	FY2018 Adopted Budget	FY2019 Adopted Budget	FY2020 Proposed Budget	Change
4110 - Salaries & Wages	293,937	394,600	406,500	435,900	29,400
4120 - Overtime	19,247	60,000	48,000	36,000	(12,000)
4130 - Miscellaneous (Payroll)	5,000	4,800	9,800	6,000	(3,800)
Personnel Services	318,183	459,400	464,300	477,900	13,600
4160 - Meals; Mileage & Uniform Allowances	1,236	2,600	2,600	3,000	400
4250 - Other Contractual Services	1,034	0	0	0	Ç
4460 - Other Materials & Supplies	16,892	36,000	40,000	26,000	(14,000)
4470 - Parts and Accessories	103,681	60,000	60,000	60,000	
4500 - Education and Training	3,578	4,800	4,800	4,900	100
4720 - Conference Travel & Expenses	0	1,200	1,200	900	(300
4815 - Repair & Maint - Equipment	3,913	36,000	18,000	16,000	(2,000)
8050 - Equipment (under \$5,000)	3,290	123,900	94,300	52,000	(42,300)
Materials, Supplies and Services	133,625	264,500	220,900	162,800	(58,100)
1270 - General Plant & Equip (over \$5,000)	0	45,000	22,000	10,000	(12,000
Equipment	0	45,000	22,000	10,000	(12,000
Total Technical Services	451,808	768,900	707,200	650,700	(56,500

**Budget Highlights** 



## **WSO - Water System Operations**

#### 5620 - Telecommunications

#### **Section's Activity**

The Telecommunications Section plans, modifies, adapts, installs, operates, maintains and repairs telecommunications equipment used in radio, microwave, supervisory control and telemetry networks covering the water distribution and pumping systems of the department, and industrial electronic equipment used in the operation of electrical pumping plants and underground pipe locating devices; designs multifunction telemetry and supervisory control systems and mobile radio systems.

Account	FY2018 Actual	FY2018 Adopted Budget	FY2019 Adopted Budget	FY2020 Proposed Budget	Change
4110 - Salaries & Wages	220,794	322,600	302,600	290,400	(12,200)
4120 - Overtime	5,920	36,000	36,000	24,000	(12,000)
4130 - Miscellaneous (Payroll)	0	15,200	12,000	2,000	(10,000)
Personnel Services	226,714	373,800	350,600	316,400	(34,200)
4160 - Meals; Mileage & Uniform Allowances	714	2,000	2,000	1,000	(1,000)
4250 - Other Contractual Services	41,928	102,000	96,000	203,000	107,000
4460 - Other Materials & Supplies	926	12,000	12,000	6,000	(6,000)
4470 - Parts and Accessories	83,701	72,000	72,000	72,000	0
4500 - Education and Training	810	2,400	2,400	2,450	50
4670 - Telemetering	307,142	240,000	240,000	240,000	0
4720 - Conference Travel & Expenses	0	1,200	1,200	900	(300)
4815 - Repair & Maint - Equipment	7,332	24,000	24,000	12,000	(12,000)
8050 - Equipment (under \$5,000)	160,688	387,000	289,400	271,500	(17,900)
Materials, Supplies and Services	603,241	842,600	739,000	808,850	69,850
1270 - General Plant & Equip (over \$5,000)	295,374	303,000	303,000	313,000	10,000
Equipment	295,374	303,000	303,000	313,000	10,000
Total Telecommunications	1,125,329	1,519,400	1,392,600	1,438,250	45,650

**Budget Highlights** 

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## **WSO - Water System Operations**

#### 5660 - Automotive

#### Section's Activity

The Automotive Section operates the maintenance and repair shops; prepares plans and specifications for the purchase of vehicles and special construction equipment; maintains and repairs vehicles, construction and special equipment; disposes of retired fleet equipment; maintains and constructs special tools and equipment; conducts research work in the automotive field.

Account	FY2018 Actual	FY2018 Adopted Budget	FY2019 Adopted Budget	FY2020 Proposed Budget	Change
4110 - Salaries & Wages	1,241,976	1,295,000	1,370,200	1,419,100	48,900
4120 - Overtime	19,543	13,000	13,000	16,000	3,000
4130 - Miscellaneous (Payroll)	19,433	16,900	31,900	22,000	(9,900)
Personnel Services	1,280,951	1,324,900	1,415,100	1,457,100	42,000
4160 - Meals; Mileage & Uniform Allowances	758	1,800	1,800	1,800	0
4250 - Other Contractual Services	130,722	187,700	187,700	184,900	(2,800)
4251 - Software Licenses and Maintenance	2,743	4,000	4,000	4,000	0
4267 - Printed forms	328	100	100	300	200
4280 - Refuse Collection & Disposal	173	0	0	0	0
4410 - Gasoline	594,614	823,200	803,200	803,200	0
4430 - Miscellaneous Supplies	657	1,200	1,200	600	(600)
4440 - Motor Vehicle Parts & Accessories	431,174	452,000	452,000	452,000	0
4460 - Other Materials & Supplies	118,358	99,900	99,900	108,500	8,600
4470 - Parts and Accessories	44,926	60,000	70,000	70,000	0
4480 - Postage	140	0	0	0	0
4500 - Education and Training	1,901	16,400	16,400	16,400	0
4720 - Conference Travel & Expenses	0	1,600	1,600	1,600	0
4805 - Repair & Maint - Structures	0	4,000	4,000	4,000	0
4815 - Repair & Maint - Equipment	89,455	80,000	90,000	90,000	0
4910 - Miscellaneous Fees & Registration	2,142	2,900	2,900	2,900	0
8050 - Equipment (under \$5,000)	10,776	7,500	10,500	17,900	7,400
Materials, Supplies and Services	1,428,865	1,742,300	1,745,300	1,758,100	12,800
1270 - General Plant & Equip (over \$5,000)	3,573,248	4,164,800	3,676,500	5,549,800	1,873,300
Equipment	3,573,248	4,164,800	3,676,500	5,549,800	1,873,300
Total Automotive	6,283,065	7,232,000	6,836,900	8,765,000	1,928,100

**Budget Highlights** 



## **WSO - Water System Operations**

## 5201 - Ocean Cooling

#### **Section's Activity**

The Ocean Cooling Program is responsible under a 20-year contract, for the operation and maintenance of the seawater cooling facility at the University of Hawaii John A. Burns School of Medicine in Kakaako. The use of cold seawater for building cooling conserves potable water and energy that would otherwise be used in conventional mechanical cooling systems.

Account	FY2018 Actual	FY2018 Adopted Budget	FY2019 Adopted Budget	FY2020 Proposed Budget	Change
4110 - Salaries & Wages	220,008	220,000	220,000	0	(220,000)
Personnel Services	220,008	220,000	220,000	0	(220,000)
4250 - Other Contractual Services	1,295	0	0	200,000	200,000
4430 - Miscellaneous Supplies	141	800	800	800	C
4460 - Other Materials & Supplies	0	30,000	30,000	30,000	C
4470 - Parts and Accessories	0	5,000	5,000	5,000	C
4815 - Repair & Maint - Equipment	200,557	363,000	355,000	304,000	(51,000)
Materials, Supplies and Services	201,993	398,800	390,800	539,800	149,000
Total Ocean Cooling	422,001	618,800	610,800	539,800	(71,000)

**Budget Highlights** 

## **IT - Information Technology**

## Division/Office's Activity

The Information Technology Division designs, develops, maintains, and supports BWS databases; software systems; server/workstation/mobile hardware and software; wired/wireless networks, voice/video and call center systems.

FY2018 Actual	FY2018 Adopted Budget	FY2019 Adopted Budget	FY2020 Proposed Budget	Change
2,876,769	3,031,400	3,629,400	3,469,500	(159,900)
169,830	254,500	218,400	199,000	(19,400)
652	43,800	12,000	12,000	0
3,047,251	3,329,700	3,859,800	3,680,500	(179,300)
831	3,600	3,600	3,800	200
4,415,692	5,287,900	7,024,937	7,383,065	358,128
1,919,866	2,223,648	2,208,360	2,483,343	274,983
0	0	0	0	0
0	0	o	5,000	5,000
5,115	0	0	0	0
11,770	5,000	4,150	3,900	(250)
96,738	114,300	122,800	127,800	5,000
17,883	24,000	12,500	12,000	(500)
444,028	700,000	711,275	710,000	(1,275)
84,346	157,600	139,600	135,895	(3,705)
9,631	0	0	0	0
43,074	76,600	83,360	88,460	5,100
252,625	267,450	263,850	343,650	79,800
60,901	500	620	620	0
526,922	633,720	1,414,575	785,700	(628,875)
7,889,422	9,494,318	11,989,627	12,083,233	93,606
242,96 <b>2</b>	350,000	371,000	415,000	44,000
242,962	350,000	371,000	415,000	44,000
	Actual  2,876,769 169,830 652  3,047,251  831 4,415,692 1,919,866 0 0 5,115 11,770 96,738 17,883 444,028 84,346 9,631 43,074 252,625 60,901 526,922 7,889,422	FY2018 Actual         Adopted Budget           2,876,769         3,031,400           169,830         254,500           652         43,800           3,047,251         3,329,700           831         3,600           4,415,692         5,287,900           1,919,866         2,223,648           0         0           5,115         0           11,770         5,000           96,738         114,300           17,883         24,000           444,028         700,000           84,346         157,600           9,631         0           43,074         76,600           252,625         267,450           60,901         500           526,922         633,720           7,889,422         9,494,318	FY2018 Actual         Adopted Budget         Adopted Budget           2,876,769         3,031,400         3,629,400           169,830         254,500         218,400           652         43,800         12,000           3,047,251         3,329,700         3,859,800           831         3,600         3,600           4,415,692         5,287,900         7,024,937           1,919,866         2,223,648         2,208,360           0         0         0           5,115         0         0           11,770         5,000         4,150           96,738         114,300         122,800           17,883         24,000         12,500           444,028         700,000         711,275           84,346         157,600         139,600           9,631         0         0           43,074         76,600         83,360           252,625         267,450         263,850           60,901         500         620           526,922         633,720         1,414,575           7,889,422         9,494,318         11,989,627	FY2018 Actual         Adopted Budget         Adopted Budget         Proposed Budget           2,876,769         3,031,400         3,629,400         3,469,500           169,830         254,500         218,400         199,000           652         43,800         12,000         12,000           3,047,251         3,329,700         3,859,800         3,680,500           831         3,600         3,600         3,800           4,415,692         5,287,900         7,024,937         7,383,065           1,919,866         2,223,648         2,208,360         2,483,343           0         0         0         0         0           5,115         0         0         0         0           11,770         5,000         4,150         3,900           96,738         114,300         122,800         127,800           17,883         24,000         12,500         12,000           444,028         700,000         711,275         710,000           84,346         157,600         139,600         135,895           9,631         0         0         0           43,074         76,600         83,360         88,460

Notes



# IT - Information Technology

## 5805 - IT Administration

#### Section's Activity

The Administration Section provides strategic planning, technology management, policy direction, cyber security program management and administrative support services for the Information Technology Division

Account	FY2018 Actual	FY2018 Adopted Budget	FY2019 Adopted Budget	FY2020 Proposed Budget	Change
4110 - Salaries & Wages	338,182	391,400	403,900	379,200	(24,700)
4120 - Overtime	0	0	0	0	0
Personnel Services	338,182	391,400	403,900	379,200	(24,700)
4160 - Meals; Mileage & Uniform Allowances	34	0	0	200	200
4250 - Other Contractual Services	28,227	475,000	455,000	275,000	(180,000)
4430 - Miscellaneous Supplies	482	1,200	1,200	1,200	0
4460 - Other Materials & Supplies	9,693	3,600	3,600	3,600	0
4500 - Education and Training	1,452	1,600	1,600	1,500	(100)
4720 - Conference Travel & Expenses	12,680	18,500	15,900	16,900	1,000
4910 - Miscellaneous Fees & Registration	60,901	500	620	620	0
8050 - Equipment (under \$5,000)	6,050	0	5,000	5,000	0
Materials, Supplies and Services	119,518	500,400	482,920	304,020	(178,900)
Total IT Administration	457,700	891,800	886,820	683,220	(203,600)

**Budget Highlights** 



## IT - Information Technology

## 5820 - Application Systems Development

#### Section's Activity

The Application Systems Development Section is responsible for providing application and data management services for all enterprise systems of the department including, customer information system, water and sewer billings, financial/HR (payroll, accounts payable and cost accounting, time tracking, etc.), laboratory information, asset maintenance and workforce management

Account	FY2018 Actual	FY2018 Adopted Budget	FY2019 Adopted Budget	FY2020 Proposed Budget	Change
4110 - Salaries & Wages	739,926	907,200	1,009,300	901,500	(107,800)
4120 - Overtime	107,798	172,500	142,400	140,000	(2,400)
4130 - Miscellaneous (Payroll)	0	24,000	12,000	12,000	0
Personnel Services	847,725	1,103,700	1,163,700	1,053,500	(110,200)
4160 - Meals; Mileage & Uniform Allowances	156	3,600	3,600	3,600	0
4250 - Other Contractual Services	1,381,548	1,900,800	3,571,000	3,239,000	(332,000)
4251 - Software Licenses and Maintenance	894,351	1,130,000	1,166,500	1,352,588	186,088
4430 - Miscellaneous Supplies	61	1,200	1,200	1,200	0
4460 - Other Materials & Supplies	879	0	0	0	0
4500 - Education and Training	26,032	88,300	63,300	56,800	(6,500)
4720 - Conference Travel & Expenses	10,138	13,100	24,600	27,900	3,300
Materials, Supplies and Services	2,313,165	3,137,000	4,830,200	4,681,088	(149,112)
Total Application Systems Development	3,160,890	4,240,700	5,993,900	5,734,588	(259,312)

**Budget Highlights** 

## IT - Information Technology

## 5835 - Technical Projects

#### Section's Activity

The Technical Engineering Projects (TEP) Branch plans, designs, installs, implements, manages, maintains and supports Board of Water Supply (BWS) Geographic Information System and spacial database. TEP also manages and maintains the BWS hydraulic models for currency and accuracy, in conjunction with Water Resources.

Account	FY2018 Actual	FY2018 Adopted Budget	FY2019 Adopted Budget	FY2020 Proposed Budget	Change
4110 - Salaries & Wages	645,661	654,000	931,200	858,800	(72,400)
4120 - Overtime	1,394	4,000	4,000	4,000	0
4130 - Miscellaneous (Payroll)	0	19,800	0	0	0
Personnel Services	647,054	677,800	935,200	862,800	(72,400)
4160 - Meals; Mileage & Uniform Allowances	40	0	0	0	0
4250 - Other Contractual Services	491,730	550,000	510,000	516,000	6,000
4251 - Software Licenses and Maintenance	200,609	236,900	240,825	227,124	(13,701)
4255 - Other Services	0	0	0	0	C
4265 - Printing	0	0	0	5,000	5,000
4430 - Miscellaneous Supplies	116	500	500	500	0
4460 - Other Materials & Supplies	677	1,200	1,200	1,200	0
4500 - Education and Training	3,898	15,000	12,000	35,000	23,000
4720 - Conference Travel & Expenses	9,422	27,500	25,360	25,360	0
4815 - Repair & Maint - Equipment	0	4,600	4,600	3,400	(1,200)
8050 - Equipment (under \$5,000)	3,818	3,300	3,300	3,300	0
Materials, Supplies and Services	710,310	839,000	797,785	816,884	19,099
1270 - General Plant & Equip (over \$5,000)	22,126	15,000	15,000	15,000	0
Equipment	22,126	15,000	15,000	15,000	0
Total Technical Engineering Projects	1,379,491	1,531,800	1,747,985	1,694,684	(53,301)

**Budget Highlights** 

## IT - Information Technology

## 5830 - Computer Operations

#### Section's Activity

The Operations Support Branch is responsible for planning, scheduling, administrating and coordinating the department's network and computer services operations (machine processing), and infrastructure operations, update and maintenance. Included in this is wired, wireless network devices/services, servers, workstations and mobile devices, cloud based services, etc.

Account	FY2018 Actual	FY2018 Adopted Budget	FY2019 Adopted Budget	FY2020 Proposed Budget	Change
4110 - Salaries & Wages	1,153,000	1,078,800	1,285,000	1,330,000	45,000
4120 - Overtime	60,638	78,000	72,000	55,000	(17,000)
4130 - Miscellaneous (Payroll)	652	0	0	0	
Personnel Services	1,214,289	1,156,800	1,357,000	1,385,000	28,000
4160 - Meals; Mileage & Uniform Allowances	601	0	0	0	C
4250 - Other Contractual Services	2,514,187	2,362,100	2,488,937	3,353,065	864,128
4251 - Software Licenses and Maintenance	824,906	856,748	801,035	903,631	102,596
4270 - Professional Services	5,115	0	0	0	
4430 - Miscellaneous Supplies	11,111	2,100	1,250	1,000	(250
4460 - Other Materials & Supplies	85,489	109,500	118,000	123,000	5,000
4470 - Parts and Accessories	17,883	24,000	12,500	12,000	(500
4480 - Postage	444,028	700,000	711,275	710,000	(1,275
4500 - Education and Training	52,965	52,700	62,700	42,595	(20,105
4650 - Security Camera - Cable Line Services	9,631	0	0	0	hidden.
4720 - Conference Travel & Expenses	10,834	17,500	17,500	18,300	80
4815 - Repair & Maint - Equipment	252,625	262,850	259,250	340,250	81,000
8050 - Equipment (under \$5,000)	517,055	630,420	1,406,275	777,400	(628,875
Materials, Supplies and Services	4,746,429	5,017,918	5,878,722	6,281,241	402,51
1270 - General Plant & Equip (over \$5,000)	220,836	335,000	356,000	400,000	44,00
Equipment	220,836	335,000	356,000	400,000	44,00
Total Operations Support	6,181,554	6,509,718	7,591,722	8,066,241	474,51

**Budget Highlights** 

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#### FIN - Finance

#### Division/Office's Activity

The Finance Division is responsible for controlling and directing the financial accounting activities of the department. Activities include conducting financial studies; administering long-term bonded debt programs and bond sales; assisting in controlling budgeted expenditures; and administering the general accounting systems including cost accounting, payroll, leave records, and accounts payable.

Account	FY2018 Actual	FY2018 Adopted Budget	FY2019 Adopted Budget	FY2020 Proposed Budget	Change
4110 - Salaries & Wages	2,169,326	2,606,900	2,780,800	2,529,000	(251,800)
4120 - Overtime	153,641	270,700	262,440	213,200	(49,240)
4130 - Miscellaneous (Payroll)	15,622	123,200	112,850	102,000	(10,850)
Personnel Services	2,338,588	3,000,800	3,156,090	2,844,200	(311,890)
4160 - Meals; Mileage & Uniform Allowances	11,973	12,800	16,450	16,300	(150)
4220 - Collection Fees	465	400	400	500	100
4250 - Other Contractual Services	8,904	9,100	37,600	13,100	(24,500)
4267 - Printed forms	2,607	3,000	9,000	5,000	(4,000)
4270 - Professional Services	1,292,569	976,500	1,761,200	1,245,700	(515,500)
4410 - Gasoline	79	0	0	0	0
4430 - Miscellaneous Supplies	13,450	11,000	16,000	16,000	0
4460 - Other Materials & Supplies	541	5,200	4,200	4,200	0
4480 - Postage	17,548	15,000	15,000	0	(15,000)
4500 - Education and Training	3,933	6,500	7,600	11,900	4,300
4720 - Conference Travel & Expenses	1,320	10,300	6,680	7,700	1,020
4815 - Repair & Maint - Equipment	5,483	4,000	4,000	6,000	2,000
4910 - Miscellaneous Fees & Registration	2,120	1,640	1,300	600	(700)
4915 - Miscellaneous Financial Expenses	685,326	937,500	701,500	931,000	229,500
8050 - Equipment (under \$5,000)	5,538	32,100	4,600	2,700	(1,900)
Materials, Supplies and Services	2,051,856	2,025,040	2,585,530	2,260,700	(324,830)
1270 - General Plant & Equip (over \$5,000)	61,978	51,000	36,000	36,000	0
Equipment	61,978	51,000	36,000	36,000	0
Total FIN - Finance	4,452,422	5,076,840	5,777,620	5,140,900	(636,720)

Notes

FIN - Finance

## 5900 - Finance Administration

## Section's Activity

Develop, provide and manage budget, financial and administrative support services to all levels of the department.

Account	FY2018 Actual	FY2018 Adopted Budget	FY2019 Adopted Budget	FY2020 Proposed Budget	Change
4110 - Salaries & Wages	356,140	345,600	361,500	348,000	(13,500)
4120 - Overtime	49	500	200	200	0
Personnel Services	356,189	346,100	361,700	348,200	(13,500)
4250 - Other Contractual Services	1,398	1,000	29,500	5,000	(24,500)
4270 - Professional Services	171,600	176,500	405,000	208,500	(196,500)
4430 - Miscellaneous Supplies	12,380	10,000	15,000	15,000	0
4460 - Other Materials & Supplies	243	0	0	0	0
4500 - Education and Training	3,933	3,000	3,600	5,400	1,800
4720 - Conference Travel & Expenses	1,320	7,800	3,120	3,200	80
4815 - Repair & Maint - Equipment	1,177	1,000	1,000	1,000	0
4910 - Miscellaneous Fees & Registration	1,481	320	340	400	60
4915 - Miscellaneous Financial Expenses	3,500	0	0	0	0
8050 - Equipment (under \$5,000)	1,312	2,000	0	1,000	1,000
Materials, Supplies and Services	198,344	201,620	457,560	239,500	(218,060)
1270 - General Plant & Equip (over \$5,000)	0	0	0	0	0
Equipment	0	0	0	0	0
Total Finance Administration	554,533	547,720	819,260	587,700	(231,560)

**Budget Highlights** 

#### **FIN - Finance**

## 5910 - Treasury

#### Section's Activity

The Treasury Section administers and manages the long term bonded debt and federal loan programs; obtains other long term and short term financing as necessary; manages the department's cash flows; and administers and oversees the management of the department's investment program.

Account	FY2018 Actual	FY2018 Adopted Budget	FY2019 Adopted Budget	FY2020 Proposed Budget	Change
4110 - Salaries & Wages	179,378	175,300	183,100	96,600	(86,500)
4120 - Overtime	0	5,000	2,000	2,000	0
4130 - Miscellaneous (Payroll)	0	0	0	0	0
Personnel Services	179,378	180,300	185,100	98,600	(86,500)
4160 - Meals; Mileage & Uniform Allowances	0	500	50	0	(50)
4270 - Professional Services	599,769	800,000	865,200	1,037,200	172,000
4460 - Other Materials & Supplies	0	200	200	200	0
4720 - Conference Travel & Expenses	0	2,000	2,000	0	(2,000)
4910 - Miscellaneous Fees & Registration	105	320	160	200	40
4915 - Miscellaneous Financial Expenses	681,826	936,000	700,000	931,000	231,000
Materials, Supplies and Services	1,281,700	1,739,020	1,567,610	1,968,600	400,990
Total Treasury	1,461,078	1,919,320	1,752,710	2,067,200	314,490

**Budget Highlights** 

## FIN - Finance

#### 5915 - Rev & Cust Accounting Section

#### Section's Activity

The Revenue and Customer Accounting Section conducts the department's billing operations and related functions which include meter reading, Pre-auditing of consumer accounts, part-rate billing, maintaining consumer records, maintaining accounts receivable and keeping special fund accounts; maintains revenue accounting and statistical reports.

Account	FY2018 Actual	FY2018 Adopted Budget	FY2019 Adopted Budget	FY2020 Proposed Budget	Change
4110 - Salaries & Wages	980,848	1,189,000	1,292,400	1,191,000	(101,400)
4120 - Overtime	150,653	245,000	245,000	200,000	(45,000)
4130 - Miscellaneous (Payroll)	2,321	0	0	0	0
Personnel Services	1,133,822	1,434,000	1,537,400	1,391,000	(146,400)
4160 - Meals; Mileage & Uniform Allowances	11,783	12,000	16,000	16,000	0
4250 - Other Contractual Services	7,506	8,100	8,100	8,100	0
4410 - Gasoline	79	0	0	0	0
4430 - Miscellaneous Supplies	1,069	1,000	1,000	1,000	0
4460 - Other Materials & Supplies	285	4,000	4,000	4,000	0
4480 - Postage	17,548	15,000	15,000	0	(15,000)
4500 - Education and Training	0	1,000	1,000	1,000	0
4815 - Repair & Maint - Equipment	4,306	3,000	3,000	5,000	2,000
8050 - Equipment (under \$5,000)	4,226	24,100	2,100	0	(2,100)
Materials, Supplies and Services	46,803	68,200	50,200	35,100	(15,100)
1270 - General Plant & Equip (over \$5,000)	61,978	51,000	36,000	36,000	0
Equipment	61,978	51,000	36,000	36,000	O
Total Rev	1,242,603	1,553,200	1,623,600	1,462,100	(161,500)

**Budget Highlights** 

#### FIN - Finance

#### 5930 - General Accounting

#### **Section's Activity**

The General Accounting Section directs and coordinates the development, functional effectiveness and maintenance of accounting systems, records, procedures and reports to ensure the acquisition of valid and consistent data for use in planning and budgeting, performance control and evaluation, managerial decisions and reporting requirements; prepares monthly financial and statistical reports and studies; prepares payrolls and maintains leave records; audits and processes disbursement vouchers; maintains all property records and depreciation schedules; coordinates annual physical inventory of utility plant and prepares annual listing as required by City Charter; prepares and analyzes special reports and studies.

Account	FY2018 Actual	FY2018 Adopted Budget	FY2019 Adopted Budget	FY2020 Proposed Budget	Change
4110 - Salaries & Wages	508,072	604,000	630,800	629,300	(1,500)
4120 - Overtime	2,272	16,200	10,440	9,000	(1,440)
4130 - Miscellaneous (Payroll)	13,301	73,200	62,800	102,000	39,200
Personnel Services	523,645	693,400	704,040	740,300	36,260
4160 - Meals; Mileage & Uniform Allowances	171	300	300	300	0
4220 - Collection Fees	465	400	400	500	100
4267 - Printed forms	2,607	3,000	9,000	5,000	(4,000)
4460 - Other Materials & Supplies	12	0	0	0	0
4500 - Education and Training	0	500	3,000	2,500	(500)
4720 - Conference Travel & Expenses	0	500	1,560	0	(1,560)
4910 - Miscellaneous Fees & Registration	534	1,000	800	0	(800)
4915 - Miscellaneous Financial Expenses	0	1,500	1,500	0	(1,500)
8050 - Equipment (under \$5,000)	0	2,500	1,500	700	(800)
Materials, Supplies and Services	3,789	9,700	18,060	9,000	(9,060)
Total General Accounting	527,434	703,100	722,100	749,300	27,200

**Budget Highlights** 

#### Board of Water Supply Operating Budget Fiscal Year 2020

#### FIN - Finance

#### 5940 - Fiscal Services

#### Section's Activity

The Fiscal Services Branch is responsible for reporting on budgetary, encumbrance and financial activities within the department. This branch records and reconciles all contract and claims encumbrances with the City annually at fiscal year-end; controls, edits and monitors reports on encumbrances extensions, insufficient funds and accounts payable; Fiscal Services maintains and coordinates an on-line vendor table (data file) for approximately 50,000 vendors for field and central use. This branch assigns vendor codes for all payment documents for timely and accurate payment processing. The administration of the purchasing card program for the procurement of goods and services is also a part of this branch's responsibilities. Fiscal Services designs hard copy and electronic encumbrance liquidation and payment forms for departmental use and submittal to Accounts Payable.

Account	FY2018 Actual	FY2018 Adopted Budget	FY2019 Adopted Budget	FY2020 Proposed Budget	Change
4110 - Salaries & Wages	76,692	226,100	243,300	194,400	(48,900)
4120 - Overtime	64	2,000	2,800	0	(2,800)
4130 - Miscellaneous (Payroll)	0	50,000	50,000	0	(50,000)
Personnel Services	76,756	278,100	296,100	194,400	(101,700)
4160 - Meals; Mileage & Uniform Allowances	20	0	100	0	(100)
4460 - Other Materials & Supplies	0	1,000	0	0	0
4500 - Education and Training	0	0	0	3,000	3,000
4720 - Conference Travel & Expenses	0	0	0	4,500	4,500
8050 - Equipment (under \$5,000)	0	3,500	1,000	1,000	0
Materials, Supplies and Services	20	4,500	1,100	8,500	7,400
Total Fiscal Services	76,776	282,600	297,200	202,900	(94,300)

**Budget Highlights** 



OP-78

#### Board of Water Supply Operating Budget Fiscal Year 2020

#### FIN - Finance

#### 5950 - Systems Accounting

#### **Section's Activity**

This System Accounting section is responsible for the planning, coordination, modification and administration of the financial management system for the BWS. This section spearheads initiatives and projects to troubleshoot the organization's financial systems.

Account	FY2018 Actual	FY2018 Adopted Budget	FY2019 Adopted Budget	FY2020 Proposed Budget	Change
4110 - Salaries & Wages	68,196	66,900	69,700	69,700	0
4120 - Overtime	602	2,000	2,000	2,000	0
4130 - Miscellaneous (Payroll)	0	0	50	0	(50)
Personnel Services	68,798	68,900	71,750	71,700	(50)
4270 - Professional Services	521,200	0	491,000	0	(491,000)
4500 - Education and Training	0	2,000	0	0	0
Materials, Supplies and Services	521,200	2,000	491,000	0	(491,000)
Total Systems Accounting	589,998	70,900	562,750	71,700	(491,050)

**Budget Highlights** 

#### Board of Water Supply Operating Budget Fiscal Year 2020

#### FC - Fixed Charges and Debt Service

#### Section's Activity

The activity represents fixed charges and non-divisional expenditures of a general nature not related to any divisional budget.

Account	FY2018 Actual	FY2018 Adopted Budget	FY2019 Adopted Budget	FY2020 Proposed Budget	Change
4610 - Electric Power - Water Distrib Fac	21,442,871	21,000,000	22,000,000	23,000,000	1,000,000
4620 - Electricity	1,059,256	900,000	1,100,000	1,200,000	100,000
4660 - Wastewater Service Charges	111,642	110,000	110,000	110,000	0
5600 - Central Admin Service Exp (CASE) Fees	3,300,000	3,300,000	3,300,000	3,300,000	C
6010 - Employee Retirement Sys (ERS)	7,360,704	8,000,000	7,200,000	9,000,000	1,800,000
6020 - FICA Contributions	2,761,790	2,800,000	2,900,000	2,900,000	C
6100 - Health Benefits - Employees	3,244,091	3,300,000	3,235,957	3,407,000	171,043
6200 - Health Benefits - Retirees	5,855,338	5,700,000	5,369,224	5,500,000	130,776
6250 - Other Post-Emplymnt Ben (OPEB)	3,000,000	3,000,000	2,575,776	2,665,000	89,224
6320 - Unemployment Insurance Benefits	17,935	56,000	56,000	26,000	(30,000
Departmental Fixed Charges	48,153,627	48,166,000	47,846,957	51,108,000	3,261,043
4670 - Telemetering	0	0	0	0	(
Materials, Supplies and Services	0	0	0	0	
1810 - Bonds Payable	9,458,788	8,550,000	8,820,000	9,110,000	290,00
1820 - Notes Payable - State Revolving Funds (SRF)	12,348,447	13,647,000	3,780,000	4,522,000	742,00
7071 - Bond Interest	9,414,904	9,451,000	9,057,000	8,750,000	(307,000
Debt Service	31,222,140	31,648,000	21,657,000	22,382,000	725,00
Total Fixed Charges and Debt Service	79,375,767	79,814,000	69,503,957	73,490,000	3,986,04

**Budget Highlights** 



OP-80

# PART II

# CAPITAL IMPROVEMENT PROGRAM BUDGET

Summary by Categories	Operating Fund	Operating Fund - SRF Eligible	Special Expendable Fund	improvement Fund	Total
I - Research and Development	6,250,000		-		6,250,000
II - Renewal and Replacement A. Pumps	6,770,000	-	~	20,500,000	27,270,000
B. Reservoirs C. Pipeline	9,840,000 5,100,000	7,500,000		39,010,000 -	56,350,000 5,100,000
D. Treatment E. Facilities Category II - sub-total	27,150,000	7,500,000	<u> </u>	59,510,000	27,150,000 115,870,000
III. Occasite Francisco					
III - Capacity Expansion  A. Pumps  B. Reservoirs	-	Œ .*	9,050,000 11,700,000	±	9,050,000 11,700,000
C. Pipeline D. Treatment	-	-	980,000	-	980,000
E. Facilities Category III - sub-total	100,000		21,730,000		100,000 21,830,000
Total Categories I - III	55,210,000	7,500,000	21,730,000	59,510,000	143,950,000
Construction Cost Index Adjustment	3,895,000	750,000	1,930,000	5,780,000	12,355,000
Contract Adjustment Account	10,000,000	-	•	_	10,000,000
Capital Improvement Program Total	69,105,000	8,250,000	23,660,000	65,290,000	166,305,000



		T						
Project No.	Project Title	Description	Туре	Operating Fund	Operating Fund - SRF Eligible	Special Expendable Fund	Improvement Fund	Total
l Resea	rch and Developm	nent				2000 En		
i. Nesca	icii aliu bevelopii	ient						
1.	Halawa Valley Groundwater	Install two (2) monitoring wells in Halawa Valley near the	Const	2,000,000	-		-	2,000,000
		Navy Red Hill Underground						
	Phase II	Fuel Storage Facility.						
	Construction	Provide construction	P&E	3,000,000	<b>5</b> .1	-		3,000,000
	Management for Various BWS	management and training services for selected BWS						
	Construction	construction projects.						
	Projects							
	Project	Provide project management,	P&E	100,000	-	% <del>=</del>		100,000
	Management for Various BWS	engineering and training services for selected BWS						
	Projects	projects.						
	Pipeline Condition	Condition assessment of transmission pipelines as	P&E	100,000	***	**	(2)	100,000
	Assessment	identified by the InfoMaster						
		decision frame work.						
5.	Waialae Nui Well	Survey, videolog, clean and	P&E	650,000			-	650,000
	Test	clear, test pump and sample						£ autor
6.	Waiawa 228	well. Prepare an environmental	P&E	400,000				400.000
	Reservoir	assessment and PIM for a site	FOL	400,000				400,000
	Environmental Assessment	with 3 reservoirs (8.5 MG total capacity: 4 MG, 2.5 MG & 2						
18	- A S S S S S S S S S S S S S S S S S S	MG ) and approximately 3,700						
		If of influent and an effluent main connection to the 180'						
		system.						
			_		***	-		<del></del>

Total Category I -Research and Development

6,250,000 - **DRAF** 6.250,000

Project				Operating	Operating Fund - SRF	Special Expendable	Improvement	
No.	Project Title	Description	Туре	Fund	Eligible	Fund	Fund	Total
II. Rene	wal and Replaceme	<u>ent</u>						
A. Pum	<u>os</u>							
7.	Hoaeae Wells Pump Replacement and Electrical Upgrades	Install pump replacement and electrical upgrades.	Const	:-	-	-	5,700,000	5,700,000
8.	Waipahu Wells I Renovation	Replace GAC backwash systems, pumping units, motor control center, chlorination system and appurtenances.	Const	:-	-		7,100,000	7,100,000
9.	Militani Wells II: Replacement of Pumping Units	Install pump replacements.	Const	-	-	-	7,700,000	7,700,000
10.	Pump Renewal and Replacement	Renewal and replacement of various BWS pumps and plant facilities.	Const	5,500,000	А	٠	85	5,500,000
11.	Honouliuli Wells II MCC Replacement	Install motor control center replacement.	P&E	300,000	-	<b>L</b> o		300,000
12.	Temporary Pumping Connections	Install connections for temporary pumps at critical pump stations to improve reliability.	P&E	370,000	-	•	-	370,000
13.	Aiea Wells Renovation	Replace existing pump no. 2, existing piping, valves, instrumentation, motor control center, and switchgear.	P&E	400,000	•	-	-	400,000
14.	Pump Renewal and Replacement	Renewal and replacement of various BWS pumps and plant facilities.	P&E	200,000	-	-		200,000
	Pumps Total			6,770,000	<u>.</u>	<u>-</u>	20,500,000	27,270,000
							)RA	FT

Project No.	Project Title	Description	Type	Operating Fund	Operating Fund - SRF Eligible	Special Expendable Fund	improvement Fund	Total
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#### **B.** Reservoirs

Reservoirs Total

#### C. Pipelines

15. Kamehameha Heights Water System Improvements, Part III

Install 8-inch mains and appurtenances along Kealia Drive, from Kapalama Avenue to Hillcrest Street; along Hillcrest Street, from Kealia Drive to Skyline Drive; along Naio Street, from Kealia Drive to end; along Makanani Drive, from Naio Street to Lolena Street; along Skyline Drive, from Hillcrest Street to Puna Street; along Puna Street, from Aulii Street to end; along Aulii Street, from Makanani Drive to Alewa Drive; and along Kula Street, from Lolena Street to end - approx. 10,000 lin. ft. Install 12-inch mains and appurtenances along Lolena Street, from Makanani Drive to Kealakai Street; and along Hala Drive, from Lolena

16. Akanoho Place 8- Install 8-inch mains and Inch Main appurtenances along Ak

appurtenances along Akanoho Place, from Maulukua Road to end - approx. 2,865 lin. ft.

Street to Kalepa Place - approx. 1,100 lin. ft.

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9,100,000

9,100,000

2,000,000

2,000,000

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Project No.	Project Title	Description	Туре	Operating Fund	Operating Fund - SRF Eligible	Special Expendable Fund	Improvement Fund	Total
17.	Auloa Road and	Install 16-inch mains and	Const	(24)	-	-	10,000,000	10,000,000
	Ulukahiki Street	appurtenances along Auloa						
	16-Inch Main	Road, from FH W03044 to						
		Kalanianaole Highway; and						
		along Ulukahiki Street, from						
		Kalanianaole Highway to						
		Kailua Road - approx. 7,635						
		lin. ft. Install 8-inch main						
		along Ulukahiki Street, from						
		near Manu Aloha Street to						
		Kailua Road – approx. 250 lin.						
		ft.						

Project No.	Project Title	Description	Туре	Operating Fund	Operating Fund - SRF Eligible	Special Expendable Fund	Improvement Fund
18.	Makakilo Water System Improvements, Part III	Install 8-inch mains and appurtenances along Nohopono Street, from Lihau Street to Palailai Street; along Nohopaa Street, from Lihau Street to Palailai Street; along Nohona Street, from Lihau Street to Palailai Street; along Nenelea Street from Lihau Street to Palailai Street; along Newa Street, from Makakilo Drive to Palailai Street; along Newa Place, from Newa Street to end; along Lihau Street, from Nohohale Street to Newa Street; along Palailai Street, from Nohona Street to Nohohale Street; along Nohohale Street; along Nohohale Street; along Nohohale Street, from Palailai Street to Makakilo Drive; along Mehani Street, from Akaula Street to Auwaea Street; along Mehani Place, from Mehani Street to end;	Const	-	- Inglistic		8,700,000
		from Mehani Street to end; along Makakilo Drive, from 65 feet West of FH L02483 to Anipeahi Street; along Makakilo Drive, from tee near FH L01849 to					
		80 feet East FH L01850; and along Palailai Place, from Palailai Street to FH L01964 - approx. 11,400 lin. ftinstall 4- inch mains and appurtenances along Nonohale Street, from Makakilo Drive to Palailai					

Street; along Palailai Street, from Nohohale Street to Palailai Place; and along Palailai Place, from Palailai Street to end - approx. 1,200

lin.ft

CIP-6

**Total** 8,700,000

Project	Project Title	Description	Туре	Operating Fund	Operating Fund - SRF Eligible	Special Expendable Fund	Improvement Fund	Total
19.	Project Title Pauoa Water System Improvements	Install 12-inch mains and appurtenances along Kanealii Avenue, from Pauoa Road to Kapalu Street - approx. 2,900 lin. ft. Install 8-inch mains and appurtenances along Lusitana Street, from Pauoa Road to Concordia Street; along Auwaiolimu Street, from Lusitana Street to Hookui Street; along Boyd Lane, from Lusitana Street to end; along Kapaloala Place, from FH M06992 to Pauoa Road; along Ladd Lane, from Lusitana Street to end; and street to end; and along Whiting Street, from Auwaiolimu Street to Puowaina Drive - approx. 6,100 lin. ft.	Const	-	Eligible	runa	7,500,000	7,500,000
20.	Waihee Road Water System Improvements	Install 8-inch and 4-inch mains and appurtenances along Waihee Road, from FH W01673 to end - approx. 300 lin. ft. Transfer approximately fifteen (15) services to the Waihee 265 system.	Const	400,000	-	-	-	400,000
21.	Kalanianaole Highway Drain Manhole Replacement	Replace drain manhole and repair berm damaged during the main break near 41-202 Kalanianaole Highway.	Const	550,000	-	-	P	550,000

	1	T		<del></del>	n			
Project No.	Project Title	Description	Туре	Operating Fund	Operating Fund - SRF Eligible	Special Expendable Fund	Improvement Fund	7-4-1
				ruitu		runa	Fund	Total
22.		Repair shotcrete lining, pipe supports, concrete wall, headwalls, and entry gates, replace existing lighting system, provide protective exterior coating for pipes, repair cracked pipe section at the Moanalua Tunnel, and replace chain link fence with expanded metal fencing at the South Portal of the Quarry Tunnel.	Const	-	7,500,000		-	7,500,000
23.	Service Lateral Replacements in Waipio and Waikele	Install service laterals and appurtenances along Moolelu Street, from Waipio Uka Street to end; along Pulai Street, from Waipio Uka Street to end; along Pulelo Street, from Lumiaina Street to end; along Wehana Place, from Pulelo Street to end; along Pulelo Place, from Pulelo Street to end; along Kanawao Street, from end to end; along Kanawao Place, from Kanawao Street to end; along Laukea Street, from Kanawao Street to Lumiaina Street; along Pumaia Place, to Laukea	Const	1,000,000				1,000,000
24.	Water Main Installation and Replacement	Street to end; and along Pumaia Way, from Pumaia Place to end – approx. 338 services. Install and replace water mains at various locations.	Const	100,000	· · · · · · · · · · · · · · · · · · ·	_		100,000

					Onesetine	Special		
Project	Project Title	Description	Туре	Operating Fund	Operating Fund - SRF Eligible	Special Expendable Fund	Improvement Fund	Total
No.	Kamehameha	Install 30-inch mains and	P&E	1,790,000	Liigibie	Tana	i unu	1,790,000
25.	Highway Water	appurtenance along	FOL	1,730,000				1,700,000
	System Improvements -	Kamehameha Highway, from Haleaha Road to 1,000 feet						
	Puhuli Street Vicinity	East of Green Valley Road - approx. 5,300 lin. ft. Install 12- inch mains and appurtenance along Kamehameha Highway, from Puhuli Street to 1,000 feet East of Green Valley						
		Road - approx. 9,800 lin. ft.						
26.	Hahaione Street, Hokulani Street and Kahena Street Area Water System Improvements	Install 12-inch mains and appurtenances along Ainapo Street, from Kahena Street to Hahaione Street - approx. 310 lin. ft. Install 8-inch mains and appurtenances along Hahaione Street, from Ainapo Street to Pepeekeo Street; and along Kahena Street, from Ainapo Street to Hahaione Street - approx. 4,770 lin. ft. Install 8-inch and 4-inch mains along Ainapo Street, from Hahaione Street to end; along Hokulani Street, from Ainapo Street to end; and along Kulani Street, from Ainapo Street to end - approx. 2,590 lin. ft.	P&E	900,000	-			900,000
27.	Kaahele Street and Moanalua Road 16-Inch Main	Install 16-Inch mains and appurtenances along Kaahele Street, from Kilinoe Street to Moanalua Road; and along Moanalua Road, from Kaahele Street to near FH L00646 - approx. 1,460 lin. ft.	P&E	240,000	-	-	-	240,000

Project No.	Project Title	Description	Туре	Operating Fund	Operating Fund - SRF Eligible	Special Expendable Fund	Improvement Fund	Total
28.	Ala Hoku Place 16-Inch Main	Install 16-inch main and appurtenances along Ala Hoku Place, from Ala Aolani Street to end; and along the private road, from Ala Hoku Place to the 16-inch cross-country main - approx. 2,550 lin. ft.	P&E	360,000	-	-		360,000

Project No.	Project Title	Description	Туре	Operating Fund	Operating Fund - SRF Eligible	Special Expendable Fund	Improvement Fund	
29.	Pohakupuna	Install 12-inch mains and	P&E				1,710,000	
	Road and Pupu	appurtenances along						
	CITY OF THE SAME WAS INCOMED FOR AND THE CORP. AND THE	Pohakupuna Road, from						
	System	Papipi Road to Makule Road -						
	Improvements	approx. 3,600 lin. ft. Install 8-						
	70-12	inch mains and						
		appurtenances along						
		Pohakupuna Place, from						
		Pohakupuna Road to Pupu						
		Street; along Huleia Place,						
		from Pupu Street to end;						
		along Amio Street, from						
		Pohakupuna Road to Pupu						
		Street; along Akua Street,						
		from Amio Street to Pupu						
		Street; along Hailipo Street,						
		from Pohakupuna Road to						
		Pupu Street; along Hailipo						
		Street, from Papipi Road to						
		Onelua Street;						
		along Pohakupuna Road, from						
		Makule Road to Fort Weaver						
		Road; along Makule Road,						
		from Pohakupuna Road to						
		Aikanaka Road; along Onelua						
		Street, from Aikanaka Road to						
		Paaloha Street; along Oama						
		Street, from Onelua Street to						
		Aikanaka Road; along						
		Makaonaona Street, from						
		Onelua Street to Aikanaka						
		Road; and along Paaloha						
		Street, from Papipi Road to						
		Aikanaka Road - approx.						
		8,520 lin. ft. Install 8-inch and						
		4-inch mains along Pupu						
		Street, from Papipi Road to						
		end; and along Pupu Place,						
		f D 0 1						

from Pupu Street to end - approx. 2,640 lin. ft

Total

1,710,000

6					Operating	Special		
Project		1 57 6		Operating	Fund - SRF	Expendable	Improvement	
No.	Project Title	Description	Туре	Fund	Eligible	Fund	Fund	Total
30.	Leolua Street	Install 12-inch mains and	P&E	1,200,000	-		-	1,200,000
		appurtenances along Leolua						
	Area Water	Street, from Kunia Road on-						
	System	ramp to Leoku Street and						
	Improvements	along Leoku Street, from						
		Waipahu Street to Farrington						
		Highway – approx. 2,400 lin.						
		ft. Install 8-inch mains and						
		appurtenances along Hene						
		Street, from Hulahe Street to						
		Honowai Street; along Hoaeae Street, from Honowai						
		Street to Haaa Street; and						
		along Loaa Street, from						
		Hoaeae Street to Haaa Street -						
		approx. 2,040 lin. ft.						
		The state of the s						
		Install 8-inch and 4-inch						
		mains and appurtenances						
		along Haaa Street, from						
		Hoaeae Street to end; along Hulahe Street, from Hene						
		Street to end; along Kipou						
		Street, from Honowai Street to						
		end; along Kipou Place, from						
		Kipou Street to end; and along						
		Kiokio Place, from Kipou						
		Street to end - approx. 5,840						
		lin. ft. Install 4-inch mains and						
		appurtenances along Kiwini						
		Place, from Kipou Street to						
		end - approx. 110 lin. ft.						
	Kanunu Street and Makaloa Street 8-inch Main	Install 8-Inch mains and appurtenances along Kanunu Street, from Keeaumoku Street to Kaheka Street; and along Makaloa Street, from Keeaumoku Street to Poni	P&E	330,000			** · · · · · · · · · · · · · · · · · ·	330,000
		Street - approx. 2,440 lin. ft.						

Project No.	Project Title	Description	Туре	Operating Fund	Operating Fund - SRF Eligible	Special Expendable Fund	Improvement Fund	Total
32.	Ahuimanu Road Area Water System Improvements	Install 16-inch mains and appurtenances along Ahuimanu Road, from near Pakai Place to Ahuimanu Place; along Ahuimanu Place, from Ahuimanu Road to Hui Ulili Street; along Hui Ulili Street, from Ahuimanu Place to Alawiki Street; and along Alawiki Street, from Hui Ulili Street to near Maiapilo Wayapprox. 6,720 lin. ft.	P&E	820,000	-	- una	-	820,000
33.	Kakela Drive and Mohala Way Water System Improvements	Install 8-inch mains and appurtenances along Kakela Drive, from McKinley Street to McKinley Street; and along Mohala Way, from East Manoa Road to Beckwith Street - approx. 1,870 lin. ft. Install 8-inch and 4-inch mains along Kakela Place, from Kakela Drive to end; and along Kakela lki Place, from Kakela Drive to end - approx. 310 lin. ft.	P&E	300,000				300,000
34.	Ihiloa Loop and Ehupua Place Area Water System Improvements	Install 8-inch mains and appurtenances along Ohialoke Street, from Ihiloa Place to Ehupua Place; and along Ehupua Place, from Ohialoke Street to Poola Street - approx. 2,045 lin. ft. Install 8-inch and 4-inch mains and appurtenances along Ihiloa Place, from near Laukahi Street to Ohialoke Street - approx. 580 lin. ft.	P&E	350,000	5	-		350,000

Project No.	Project Title	Description	Туре	Operating Fund	Operating Fund - SRF Eligible	Special Expendable Fund	Improvement Fund	Total
35.	Elelupe Road and Kuliouou Road Water System Improvements	Install 12-inch mains and appurtenances along Kuliouou Road, from Kalanianaole Highway to Kaniela Place - approx. 2,650 lin. ft. Install 8-	P&E	1,050,000				1,050,000
		inch mains and appurtenances along Elelupe Road, from Kuliouou Line Booster Pump Station to Kuliouou Road; and along Dalene Way, from Kuliouou						
		Road to Kawekiu Place - approx. 2,950 lin. ft. Install 8- inch and 4-inch mains along Kaniela Place, from Kuliouou Road to end; along Haleloa						
		Place, from Kuliouou Road to end; along Kawekiu Place, from Kuliouou Road to end; along Naleialoha Place, from Kuliouou Road to end; along						
		unnamed place, from Kuliouou Road to end; and along Elelupe Place, from Elelupe Road to end - 2,565 lin. ft.						
36.	Kahala Mall Master Meter Improvements	Install master meters and appurtenances along Hunakai Street and Kilauea Avenue.	P&E	200,000	¥	8		200,000
37.	Service Lateral Replacement at Various Locations	Topographic Survey for the service lateral replacement at various locations.	P&E	150,000	æ	-	-	150,000
38.	Water Main Installation and Replacement	Install and replace water mains at various locations.	P&E	100,000	· .		· - 5	100,000
	Pipelines Total		-	9,840,000	7,500,000		39,010,000	56,350,000



Project No.	Project Title	Description	Туре	Operating Fund	Operating Fund - SRF Eligible	Special Expendable Fund	Improvement Fund	Total
Treatme	<u>ent</u>	-3.87						
39.	Mililani Wells I GAC Renovation	Replace valves, piping and appurtenances.	Const	3,000,000	<b></b>			3,000,000
40.	GAC Facility Improvements	Install improvements at select GAC facilities to extend use of existing systems.	Const	500,000	9 <u>2</u>	1-	-	500,000
41.	GAC Interior Corrosion Control at Various Locations	Perform interior corrosion control of selected BWS GAC facilities.	Const	1,500,000	, -		-	1,500,000
42.	GAC Facility Improvements	Install improvements at select GAC facilities to extend use of existing systems.	P&E	100,000		-	-	100,000
				5 400 000	1 1	A	- OMO	E 400 000
	Treatment Total			5,100,000		-	=	5,100,000
E. Facil	ities							
43.	Water Meter Transponders Replacement - Phase II	Replace existing water meter transponders (MXU) by furnishing and installing approximately 80,000 MXUs. CM services funding included for this project.	Const	8,000,000	-	<b>-</b> ∞	-	8,000,000
			P&E	1,000,000	-	-	% <del>=</del>	1,000,000
44.	Station Instrumentation	Replace station instrumentation with IP enabled solutions, eliminating the need for the existing RTUs.	Const	700,000	-	-	-	700,000

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Project No.	Project Title	Description	Туре	Operating Fund	Operating Fund - SRF Eligible	Special Expendable Fund	Improvement Fund	Total
45.	Beretania Public Service Building Exterior Improvements	Repave parking lot and courtyard, reconstruction curb and gutter, install curb ramps, repairs to the catwalk and fountain, and repaint the public service building exterior.	Const	3,100,000			-	3,100,000
46.	Security Improvements at Various Locations	Security improvements and enhancements includes, but not limited to fencing, doors and windows, vegetation setbacks and access control systems at various BWS locations.	Const	3,800,000			-	3,800,000
47.	Security Fencing at Hoaeae, Mililani I, and Waiau Wells	Install security fencing along the perimeter of the site.	Const	1,300,000	i e	THE		1,300,000
48.	Slope Stabilization Near Ekoa Place	Rockfall Mitigation along BWS property near Ekoa Place.	Const	2,400,000	:-	-		2,400,000
49.	Facility Repair and Renovation	Repair, renovation, reroofing, fencing and repainting of selected BWS facilities.	Const	2,000,000		=	, <b>-</b> , <u>-</u> ,	2,000,000
50.	Facility Reroofing at Various Locations	Reroofing of selected BWS facilities.	Const	3,000,000				3,000,000
51.	Haiku Stairs Removal	Removal of Haiku Stairs.	P&E	250,000	-	-	-	250,000
52.	Facility Repair and Renovation	Repair, renovation, reroofing, fencing and repainting of selected BWS facilities.	P&E	800,000	-	<del>-</del> 8	-	800,000



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Project		Danadastas	Tura	Operating Fund	Operating Fund - SRF Eligible	Special Expendable Fund	Improvement Fund	Total
No.	Project Title	Description	Type	11.001.00.00				
53.	Professional Services for BWS Projects	Obtain services of archaeologists, botanists, environmental engineers, water quality labs, planners, government agencies and others.	P&E	300,000		ia.		300,000
54.	Monitoring Well Assessment and Repair	Provide well condition assessment and associated repair services for monitor wells.	P&E	100,000		-		100,000
55.	Security Fencing at Various Locations	Install expanded metal fencing at selected BWS facilities.	P&E	400,000		ž	-	400,000
	Facilities Total			27,150,000	٠		-	27,150,000
	Total Category II							
	Replacement			48,860,000	7,500,000		59,510,000	115,870,000
III. Capa	acity Expansion							
A. Pum	<u>ps</u>							
56.	Pacific Heights Booster No. 1	Land acquisition for new Pacific Heights Booster No. 1 to eliminate cross-country water main between Jack Lane and the Pacific Heights 578 Reservoir.	Land	ž,	٠	100,000		100,000

Project No.	Project Title	Description	Туре	Operating Fund	Operating Fund - SRF Eligible	Special Expendable Fund	Improvement Fund	Total
57.	Waialae West Well	Install one (1) 0.5 MGD pump, control building, pipeline, landscaping, irrigation system, acoustical facilities, electrical equipment, and appurtenances (TMK: 3-3-014:016).	Const			4,500,000		4,500,000
58.	Mililani 994 Booster Station	Install booster station at the Mililani 994 Reservoir to boost to 1150 system.	Const	-		3,900,000		3,900,000
59.	Maakua Well Unit No. 2	Install new pump no. 2 in existing well including piping, valves, instrumentation, MCC, mute building, and retaining wall.	P&E	<b>F</b>		550,000	-	550,000
	Pumps Total		- -	-	9 <u>10</u> 0 500	9,050,000	-	9,050,000
3. Rese	rvoirs				4			
		Install 2.0 MG reservoir and appurtenances (TMK: 2-4-043:082) and 24-inch main along Auwaiolimu Street and Pensacola Street to Kinau Street - approx. 4,700 lin. ft.	Const	-		10,900,000	-1	10,900,000
	R-1 3.0 MG Reservoir	Install 3.0 MG R-1 reservoir and appurtenances (TMK: 9-1-018:008). Install 16-inch main and appurtenances along the access road, from the proposed reservoir to the Farrington Highway - approx.	P&E	- ,		800,000	-	800,000
		2,300 lin. ft.						

11,700,000

11,700,000

CIP-18

**Reservoirs Total** 

Project No.	Project Title	Description	Туре	Operating Fund	Operating Fund - SRF Eligible	Special Expendable Fund	Improvement Fund	Total
62.	Dole Street and Kanewai Street Area Water System Improvements	Install 24-inch mains and appurtenances along Dole Street, from FH M02955 to St. Louis Drive; along St. Louis Drive, from Dole Street to Waialae Avenue; along Waialae Avenue, from St. Louis Drive to 1st Avenue; along 1st Avenue, from Waialae Avenue to Harding Avenue; and along Harding Avenue, from 1st Avenue to Kaimuki Pump Station – approx. 4,560 lin. ft. Install 12-inch mains and appurtenances along Kanewai Street, from Dole Street to Kamakini Street – approx. Install 8-inch mains and appurtenances along Waialae Avenue, from Waialae Avenue to 1st Avenue; and along 1st Avenue, from Waialae Avenue to Harding Avenue – approx. 760 lin. ft.Install 8-inch and 4-inch mains and appurtenances along Kamakini Street, from FH M06955 to end; and along Kaluawaa Street, from Kamakini Street to end – approx. 1,680 lin. ft.				980,000		980,000

**Pipelines Total** 

D. Treatment

Treatment Total



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Project No.	Project Title	Description	Туре	Operating Fund	Operating Fund - SRF Eligible	Special Expendable Fund	Improvement Fund	Total
E. Facil	ities							
63.	Kapolei Base Yard Facility	Design-build contract for construction of administration building, warehouse, truck port and parking lot.	Const	100,000		-	-	100,000
	Facilities Total		,	100,000				100,000
				.00,000			-	100,000
	Total Category III - Capacity Expansion			100,000		21,730,000		21,830,000
	Total Categories			55,210,000	7,500,000	21,730,000	59,510,000	143,950,000
	Construction Cost Index Adjustment			3,895,000	750,000	1,930,000	5,780,000	12,355,000
	Contract Adjustment Account			10,000,000	-	ž-	-	10,000,000
	Capital Improvement Program Total		-	69,105,000	8,250,000	23,660,000	65,290,000	166,305,000