

## BOARD OF WATER SUPPLY

CITY AND COUNTY OF HONOLULU  
630 SOUTH BERETANIA STREET  
HONOLULU, HI 96843  
[www.boardofwatersupply.com](http://www.boardofwatersupply.com)



May 4, 2021

RICK BLANGIARDI, MAYOR

BRYAN P. ANDAYA, Chair  
KAPUA SPROAT, Vice Chair  
RAY C. SOON  
MAX J. SWORD  
NA'ALEHU ANTHONY

JADE T. BUTAY, Ex-Officio  
ROGER BABCOCK, Jr., Ex-Officio

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

ELLEN E. KITAMURA, P.E.  
Deputy Manager and Chief Engineer

### NOTICE

The Board of Water Supply, City and County of Honolulu, will hold a Workshop Meeting on The Proposed Operating and Capital Improvement Program (CIP) Budgets for Fiscal Year 2021-2022 on Monday, May 10, 2021, at 2:00 p.m. in the Boardroom, Public Service Building, 630 South Beretania Street, Honolulu, Hawaii.

Pursuant to the Nineteenth Supplementary Proclamation issued by Governor David Y. Ige on April 9, 2021, related to the COVID-19 emergency, in order to allow public participation in a manner consistent with social distancing practices, the following procedures are in effect for the meeting.

Some Board members may be participating in the meeting by interactive conference technology from remote locations.

#### TESTIMONY

Testimony can be submitted as follows:

- Written testimony may be emailed to [board@hbws.org](mailto:board@hbws.org) or faxed to (808) 748-5079. Testimony is due by Monday, May 10, 2021, at noon. Written testimonies should include the submitter's address, email address, and phone number. Written testimony will be posted to the BWS website at [boardofwatersupply.com](http://boardofwatersupply.com).
- Mail written testimony to Board of Water Supply, 630 S. Beretania St., Honolulu, HI 96843. Testimony is due by Monday, May 10, 2021, at noon.
- On-line testimony will be accepted at [boardofwatersupply.com/testimony](http://boardofwatersupply.com/testimony). Fill out the testimony form. Due by Monday, May 10, 2021, at noon.
- Telephone testimony will be accepted during the meeting at (808) 748-6040. Callers will be placed in a queue and brought up to testify one at a time.
- In-person testimony will not be accepted.

Testimony is limited to two (2) minutes and shall be presented by the registered speaker only.

#### MATERIALS AVAILABLE FOR INSPECTION

Meeting materials ("board packet" under HRS Section 92-7.5) are accessible at [www.boardofwatersupply.com/boardmeetings](http://www.boardofwatersupply.com/boardmeetings). Persons requesting a printed copy of the materials should contact Luella Paekukui at (808) 748-5176.

#### VIEWING THE MEETING

The meeting will be viewable via live streaming on:

(1) the BWS website: [www.boardofwatersupply.com/live](http://www.boardofwatersupply.com/live). Video will appear on screen. You may have to click the arrow on video to start it. You may have to unmute audio as muted audio tends to be the default setting.

### **SPECIAL REQUESTS AND ACCOMMODATIONS**

If you require special assistance, an auxiliary aid or service, and/or an accommodation due to a disability to participate in this meeting (i.e., sign language interpreter; interpreter for language other than English, or wheelchair accessibility), please call (808) 748-5172 or email your request to [board@hbws.org](mailto:board@hbws.org) at least three business days prior to the meeting date.

The agenda for the May 10, 2021, Workshop Meeting of the Board of Water Supply is as follows:

**ITEMS FOR INFORMATION**

1. Workshop Meeting on the Proposed Fiscal Year 2021-2022 Operating and Capital Improvement Program Budget

# MINUTES

## THE REGULAR MEETING OF THE BOARD OF WATER SUPPLY

May 10, 2021

At 2:02 PM on May 10, 2021, 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 Fiscal Year 2021-2022 Operating and Capital Improvement Program Budget.

**Present:** Bryan P. Andaya, Chair  
Kapua Sproat, Vice Chair via WebEx  
Ray C. Soon, Board Member via WebEx  
Max J. Sword, Board Member via WebEx  
Na'alehu Anthony, Board Member via WebEx  
Jade T. Butay, Board Member, Ex-Officio via WebEx  
Roger Babcock, Jr., Board Member, Ex-Officio  
via WebEx

**Also Present:** Ernest Lau, Manager and Chief Engineer  
Ellen Kitamura, Deputy Manager and Chief Engineer  
via WebEx  
Jason Takaki, Program Administrator,  
Capital Projects Division  
Jadine Urasaki, Assistant Program Administrator,  
Capital Projects Division via WebEx  
Jennifer Elflein, Program Administrator,  
Customer Care Division via WebEx  
Kathleen Elliott-Pahinui, Information Officer,  
Communications Office via WebEx  
Raelynn Nakabayashi, Executive Assistant I,  
Executive Support Office  
Mike Fuke, Program Administrator,  
Field Operations Division  
Jason Nikaido, Assistant Program Administrator,  
Field Operation Division  
Joseph Cooper, Waterworks Controller,  
Finance Division via WebEx  
Michele Thomas, Executive Assistant I,  
Human Resources Office via WebEx  
Henderson Nuuhiwa, Program Administrator,  
Information Technology Office  
via WebEx  
Michael Matsuo, Land Administrator,  
Land Division via WebEx  
Erwin Kawata, Program Administrator,  
Water Quality Division via WebEx  
Barry Usagawa, Program Administrator, Water  
Resources Division via WebEx



Kevin Ihu, Program Administrator, Water System  
Operations Division via WebEx  
Kathy Mitchell, Administrative Services Officer  
via WebEx  
Deanna Thyssen, Executive Secretary via WebEx  
Joy Cruz-Achiu, Board Secretary  
Steven Norstrom, Information Specialist II,  
Communications Office

Others Present: Jeff Lau, Deputy Corporation Counsel  
via WebEx Call  
Moana Yost, Deputy Corporation Counsel  
via Conference Call

Absent: Max Sword, Board Member

## ITEM FOR INFORMATION NO. 1

Chair Bryan Andaya announced he was joining the Workshop Meeting in person, and other Board Members were joining WebEx. Chair Andaya asked each Board Member to respond verbally when their names were called. Vice Chair Kapua Sproat, aye; Board Member Na'alehu Anthony, aye; Board Member Jade Butay, aye; and Board Member Roger Babcock, Jr., aye.

Chair Andaya stated he would acknowledge other Board Members as they joined the meeting.

Chair Andaya introduced those present in the Boardroom, Manager Ernest Lau, Board Secretary Joy Cruz-Achui, and Information Specialist Steven Norstrom. Joining from the City and County Corporation Counsel was Deputy Jeff Lau and Deputy Moana Yost via Conference Call.

At 2:04 PM, Chair Andaya acknowledged Board Member Ray Soon joined the Workshop Meeting via WebEx.

Chair Andaya shared the various ways to submit testimony: Written testimony may be submitted by email to [board@hbws.org](mailto:board@hbws.org), by fax to (808) 748-5079; mailed to Board of Water Supply, 630 S. Beretania St., Honolulu, HI 96843; or online at the [boardofwatersupply.com/testimony](https://www.boardofwatersupply.com/testimony), which were all due on Monday, May 10, 2021, at noon. However, late testimony will be accepted by email, fax, or mail. Telephone testimony is accepted by calling (808)748-6040, where you will be put in the queue and allowed to testify one at a time. Unfortunately, due to the pandemic, in-person testimony is suspended. Pursuant to HRS Section 92-7.5, Board Meeting materials are available to view on our website at [www.boardofwatersupply.com/boardmeeting](https://www.boardofwatersupply.com/boardmeeting); printed copies are available by contacting Luella Paekukui at (808)748-5176.

Chair Bryan Andaya announced that there is only one item on the Agenda for May 10, 2021, Budget Workshop on the Proposed Fiscal Year 2021-2022 Operating and Capital Improvement Program (CIP) Budget for the Board of Water Supply (BWS).

Chair Andaya recognized Ms. Raelynn Nakabayashi and Manager Lau.

Manager Lau introduced Ms. Raelynn Nakabayashi, Executive Assistant I, Executive Support Office.

Ms. Nakabayashi started the presentation by stating the BWS Operating Budget for Fiscal Year 2022 increased by \$7.3 million or 3.5%, and the CIP Budget decreased by \$21.6 million or 10.7% in Fiscal Year 2021.

Ms. Nakabayashi indicated that the Operating Budget increase is consistent with the updated Long Range Financial Plan (LRFP) that was adopted in February 2021. She further explained that the variance in the CIP budget was due to the amendment of the Fiscal Year 2021 CIP Budget, which the Board adopted via Resolution 915, 2020 in September 2020. This amendment included additional funding for the Kalawahine 180 Reservoir Project, the Lanikai Water System Improvement Project and the new Manana Corporation Yard Laboratory and Control Center Expansion Project which collectively, created an abnormally large CIP Budget in Fiscal Year 2021.

Ms. Nakabayashi continued by presenting the Operating and CIP budgets, highlighting changes in the Operating and CIP budgets, from previous fiscal years, proposed Operating fund expenditures, and anticipated revenue projections.

Ms. Nakabayashi concluded the presentation with an Operating Fund Budget Summary for Fiscal Year 2022, stating that the BWS is faced with 1) decreased resources – even with the projected increases in revenues, the projected carryforward or beginning fund balance continues to decline, leaving less resources from which to establish the Operating and CIP Budgets; and 2) increased expenditures, consistent with the Updated Long Range Financial Plan and Water Master Plan; resulting in; 3) a reduced fund balance - as the BWS prepares to enter into a new rate study, the BWS has right-sized the Operating Budget to align with the LRFP.

Chair Andaya asked the Board Members if there were any questions for Ms. Nakabayashi.

Board Member Na'alehu Anthony inquired what do other revenues consist of.

Ms. Nakabayashi responded that other revenues consist mainly of interest income and revenues from Ocean Cooling, which are the air conditioning services provided to JABSOM (University of Hawaii – John A Burns School of Medicine). Other revenues also consist of smaller amounts attributable to water service installations and materials and private fire protection.

Manager Lau mentioned that revenue from cellular companies located on the BWS facilities is also part of other revenues.

Chair Andaya asked for clarification on slide 9, in which the actual ending balance in Fiscal Year 2020 was \$32.8 million, and in Fiscal Year 2021, the beginning balance was \$47.0 million. He questioned if this was due to the project that was not encumbered in Fiscal Year 2020.

Ms. Nakabayashi replied the difference between the Fiscal Year 2020 actual ending balance and the Fiscal Year 2021 beginning balance was due to an adjustment made so the BWS could align the budgets more closely with the methodology used in our Long Range Financial Plan to calculate working capital. She explained that the \$32.8 million represents the Operating Fund Balance which is calculated using Fund Accounting methods. The amount was adjusted with the same methodology used in the LRFP in calculating Working Capital; which led to a revised beginning balance of \$47.0 million for Fiscal Year 2021. The Operating Fund Budgets were designed to monitor align with our working capital targets.

Chair Andaya requested to be reminded of the financial policy on the BWS working capital goal.

Manager Lau responded that the BWS financial policy for working capital goal is to never fall below 60 working days.

Chair Andaya inquired if the Fiscal Year 2021 estimated actual ending balance of \$39.8 million represents this fiscal year's policy of 103 days of working capital.

Ms. Nakabayashi responded the 103 days of working capital was calculated from the Fiscal Year 2020 audited financial statements. She stated that Fiscal Year 2021 has not been completed, and thus audited financial statements have not yet been produced. Therefore, the actual unencumbered working capital cash balance for Fiscal Year 2021 will be calculated at the end of the fiscal year. Ms. Nakabayashi explained the 103 working capital days, as calculated based on the audited financial statements, were considered in the budget planning for Fiscal Year 2022. The Finance Division adjusted the Actual ending Operating Fund balance, providing a revised fund beginning balance for the next fiscal year. This adjustment, aligned with the LRFP, allows the BWS to formulate future year budgets that will bring the 103 days of working capital closer to the 60 days minimum as the new rate-setting study approaches.

Manager Lau added the BWS is trying to carry over smaller amounts. Therefore, the BWS moved additional Operating Fund monies into the CIP.

Chair Andaya stated he sees the decrease from Fiscal Year 2021 to Fiscal Year 2022 but asked at 103 days of working capital what is that figure.

Ms. Nakabayashi replied at the end of Fiscal Year 2020, the adjusted fund balance was at \$47.0 million, which equated to 103 days of working capital, so each day of operations is approximately \$460,000 a day.

Manager Lau replied that to have 60 days of working capital, the estimated amount would be \$29 million.

Chair Andaya stated his understanding, to meet the goal of never having less than 60 days of working capital, as defined by our financial policy, the ending fund balance total must be brought down to about \$29 million, which is based on operating costs of \$460,000 per day.

Manager Lau stated the BWS is working to bring down the 103 days of working capital to the minimum of 60 days of working capital in preparation for the upcoming rate study and to be cognizant of the current economic conditions our customers are facing.

Chair Andaya explained to the Board Members that based on prior discussions, the BWS is working on lowering the surplus fund balance at the end of each fiscal year while still adhering to the adopted financial policy of never having less than 60 days of working capital but trying to target 180 days in case of an emergency or disaster.

Since there were no further questions on the Operating budget, Manager Lau introduced Mr. Jason Takaki, Program Administrator, Capital Projects Division, to share the proposed Fiscal Year 2022 CIP.

Mr. Takaki began by stating the annual CIP is our commitment to the future of the water system. The annual program is compiled by the Capital Projects Division, including projects from all Divisions and staff offices. The proposed CIP budget supports the Departments' vision and mission and is aligned with the Water Master Plan (WMP), Strategic Plan, the Divisions goals and objectives in support of these plans, and the 6-year CIP.

Mr. Takaki stated the CIP carefully balances the needs of the systems in providing reliable water service with cost-effective management of assets and funding. The CIP is comprised of three project categories: Research and Development, Renewal and Replacement, and Capacity Expansion.

Mr. Takaki described the different sources of funding that would be used for various projects- Operating Fund, low-interest loans from the Department of Health (DOH), State Revolving Fund (SRF), Special Expendable Fund, and Improvement Fund (bond-funded projects). The proposed CIP budget is \$179,976,000.

Mr. Takaki shared the various areas on Oahu where design and construction projects will be distributed as the BWS manages an island-wide municipal water system.

Mr. Takaki continued through the presentation of the CIP, highlighting the different project categories and the projects included in each category.

Chair Andaya asked the Board Members if there were any questions on the Fiscal Year 2022 CIP.

Chair Andaya asked if the Operating Fund is the source of revenue that will fund the CIP budget.

Mr. Takaki confirmed that a portion of the Operating Fund that Ms. Nakabayashi explained in her presentation is a source of revenue that will be used to fund the CIP.

Chair Andaya also inquired if the Operating Fund SRF is the loans that are granted by the DOH.

Mr. Takaki responded that the DOH/Environmental Protection Agency (EPA) administers the Safe Drinking Water and Clean Water SRF loan program, which are for loans with low interest rates. The BWS uses these loans to fund the CIP. However, the BWS uses the Operating Fund money up-front to pay in advance for projects, then get reimbursed by the DOH.

Manager Lau also replied that the BWS uses the Operating Funds to pay the bill then submits it to the State for reimbursement.

Chair Andaya then asked Mr. Takaki to explain Special Expendable Fund.

Mr. Takaki explained the Special Expendable Fund is from collections of Water System Facility Charges. As an example, Mr. Takaki stated if there is a new development or an increased need for the water system, people will pay water system facility charges. Any money collected would be used to fund projects that contribute to the systems expansion.

Chair Andaya asked to confirm the Special Expendable Fund funds the amount listed under Capacity Expansion of \$18.9 million.

Mr. Takaki stated that the \$18.9 million listed under the Capacity Expansion is funded by the Special Expendable Fund.

Chair Andaya then inquired about the Improvement Funds.

Mr. Takaki responded that the Improvement Funds are the bonds issued.

Chair Andaya asked if the bonds are all applied to the Renewal and Replacement category used to reach the BWS's goals of replacing 21 miles of pipeline per year.

Manager Lau confirmed that the largest category, Renewal and Replacement is funded by the bonds issued.

Chair Andaya asked to explain the expenses starting with the Construction Cost Index category.

Mr. Takaki replied the Construction Cost Index is a set-aside for bids received that are higher than the budgeted amount. This is important in times of market fluctuation when there is uncertainty on costs. A current example is the cost of lumber, which has been in the news recently. Costs for lumber are rising dramatically and we are unsure of the impact on our projects. The BWS will use the Construction Cost Index to cover the increased costs of the bids but stay within the total budget.

Chair Andaya also asked to explain the Contract Adjustment category.

Mr. Takaki explained the Contract Adjustment category is funds budgeted specifically for change orders for prior years' projects.

Board Member Ray Soon inquired what is the sizes of the contracts that would amount to a total of \$15.6 million.

Mr. Takaki replied that the BWS has an estimated \$300 million worth of work-in-progress. Change orders are inevitable due to the unknowns related to water projects.

Board Member Soon responded he was satisfied with that estimate since it is only 5%.

Board Member Na'alehu Anthony asked if he was understanding correctly how the Improvement Fund and bonds are used. The BWS uses the budgeted Improvement Fund, which is the recently authorized bonds, to reach the goal of replacing 21 miles of each year.

Manager Lau replied to Board Member Anthony that he understood correctly. He explained that the BWS is amid the last rate increase adopted by the Board in 2018. The rate that comes from the next rate study will be included in Fiscal Year 2022 budget, which would be for the next 5-year rate schedule. The next rate increase must be able to drive the CIP and Operating Fund through borrowing. The BWS continues to maintain debt service, so rates decrease.

Chair Andaya explained that during the last rate study in 2018 when the ultimate goal was to replace pipeline without shocking the ratepayers. The BWS followed the AWWA standards by agreeing to replace 21 miles of pipeline per year. The BWS was able to find a balance between a modest rate increase and bonds. The BWS has maintained an outstanding financial record, which resulted in a very good bond rating and lowered the BWS's debt service. This process is repeated yearly.

Board Member Anthony thanked Manager Lau and Chair Andaya for the explanation.

Board Member Soon stated he examined the budget and thought it was reasonable. He appreciates that Capital Projects Division is working to meet the BWS's goal.

Board Member Soon inquired if there is any incoming money since COVID.

Manager Lau responded the BWS is anticipating borrowing \$15 million from the SRF with low-interest rates. He mentioned Congress has two water infrastructure bills. One the Senate passed and is now at the House. The other bill that President Joe Biden is working on to send to Congress. Depending on the outcome, the BWS may have the opportunity to obtain more federal. The BWS will report to the Board if Congress passes the bills and President Biden signs the bills to law.

Board Member Soon asked Manager Lau if he was expecting or assuming any money coming in.

Manager Lau replied the BWS isn't making any assumptions but will make the adjustments if it becomes law.

Chair Andaya asked the Board Members if there were any further questions.

Chair Andaya asked Board Secretary Ms. Cruz-Achiu if there were any written testimony. Ms. Cruz-Achiu responded there was no written testimony. He asked Mr. Norstrom if there was anyone to testify by telephone. Mr. Norstrom responded there were no telephone testers.

Chair Andaya asked the Board Members if there were any further questions; if not, they'd have another opportunity at the Public Hearing on Monday, May 24, 2021. He stated he looked forward to seeing a few of the Board Member returning to the Board Room to join the meeting.


**MOTION TO  
ADJOURN**

There being no further business Chair Andaya at 2:55 PM called for a motion to adjourn the Open Session. Na'alehu Anthony so moved; seconded by Jade Butay and unanimously carried.

The minutes of the Workshop Meeting held on May 10, 2021 are respectfully submitted,

  
JOY CRUZ-ACHIU

APPROVED:

  
BRYAN P. ANDAYA  
Chair of the Board  
MAY 24 2021

Date

THE MINUTES OF THE BUDGET WORKSHOP BOARD MEETING HELD ON MAY 10, 2021, WERE APPROVED AT THE MAY 24, 2021 BOARD MEETING			
	AYE	NO	COMMENT
BRYAN P. ANDAYA	X		
KAPUA SPROAT	X		
RAY C. SOON	X		
MAX J. SWORD	X		
NA'ALEHU ANTHONY	X		
JADE T. BUTAY	X		
ROGER BABCOCK, JR.	X		





# FY 2022 BUDGET WORKSHOP

Raelynn Nakabayashi & Jason Takaki, P.E.

May 10, 2021

[boardofwatersupply.com](http://boardofwatersupply.com)



# FY 2022 OPERATING BUDGET AND CAPITAL IMPROVEMENT PROGRAM BUDGET

RAELYNN NAKABAYASHI, EXECUTIVE SUPPORT OFFICE  
MAY 10, 2021

[WWW.BOARDOFWATERSUPPLY.COM](http://WWW.BOARDOFWATERSUPPLY.COM)



# FY 2022 BUDGET SUMMARY

	<b>FY 2021 – Adopted</b>	<b>FY 2022 – Proposed</b>	<b>\$ Change</b>	<b>% Change</b>
Operating Budget	\$207,848,937	\$215,140,447	\$7,291,510	3.5%
Capital Improvement Program Budget	\$201,587,500	\$179,976,000	(\$21,611,500)	(10.7%)
Total	\$409,436,437	\$395,116,447	(\$14,319,990)	(3.5%)





# FY 2022 BUDGET SUMMARY

- Operating Budget increases by \$7.3 million or 3.5% over FY 2021.
- Capital Improvement Program Budget decreases by \$21.6 million or 10.7% less than FY 2021.
  - Consistent with the long-range financial plan, BWS intends to issue revenue bonds in the second half of FY 2022.
  - The bond issue is anticipated to be \$93.4 million in the next fiscal year.



# OPERATING & CIP BUDGETS FY 2018 – FY 2022

(MILLIONS OF DOLLARS)





# OPERATING FUND REVENUE & EXPENDITURE SUMMARY

(MILLIONS OF DOLLARS)

	FY 2021	FY 2022	Change	
	Adopted	Proposed	\$ Mil.	%
Revenues	\$245.1	\$248.8	\$3.8	1.5%
Total Operating Expenditures	\$207.8	\$215.1	\$7.3	3.5%



# UPDATED LONG RANGE FINANCIAL PLAN

REFERENCES FROM LRFP

**Table 2-7. Operations and Maintenance Forecast through FY 2027, \$M**

Fiscal Year	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027
Personnel Services	\$51.1	\$52.8	\$53.4	\$53.9	\$54.4	\$55.5	\$56.6
Materials & Supplies	\$72.1	\$72.8	\$73.5	\$74.3	\$75.8	\$78.0	\$80.8
Equipment	\$6.6	\$6.6	\$6.7	\$6.8	\$6.9	\$7.1	\$7.4
Fixed Costs	\$53.9	\$54.4	\$55.0	\$56.2	\$57.2	\$58.4	\$59.6
Total	\$183.6	\$186.7	\$188.9	\$191.2	\$194.3	\$199.1	\$204.4
Annual Increase		1.7%	1.2%	1.2%	1.6%	2.4%	2.7%
Revised Baseline	\$168.9	\$171.8	\$173.8	\$175.9	\$178.8	\$183.1	\$188.1

**Table 2-12. Revised Cashflow, FY 2021-FY 2031, \$M**

	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031
Debt Service											
Existing Debt - Bonds	\$19	\$20	\$21	\$21	\$21	\$21	\$21	\$21	\$21	\$21	\$21
Existing Debt - SRF & JABSOM	\$6	\$6	\$6	\$6	\$6	\$6	\$6	\$6	\$6	\$6	\$6
SRF Fees - Existing Loans	\$1	\$1	\$1	\$1	\$1	\$1	\$1	\$1	\$1	\$0	\$0
Proposed Debt - Bonds	\$0	\$4	\$7	\$17	\$24	\$31	\$39	\$49	\$58	\$65	\$65
Proposed Debt - SRF	\$0	\$1	\$2	\$3	\$4	\$4	\$5	\$5	\$6	\$6	\$6
SRF Fees - Proposed Loans	\$0	\$0	\$1	\$1	\$1	\$1	\$1	\$1	\$1	\$1	\$1
Subtotal Debt Service	\$26	\$32	\$36	\$42	\$49	\$56	\$63	\$73	\$83	\$93	\$100





# FY2022 BUDGET COMPARISON TO UPDATED LONG RANGE FINANCIAL PLAN

(MILLIONS OF DOLLARS)

Account - Subtotal	LRFP FY2022	FY2022 Budget	Variance \$	Variance %
Departmental Fixed Charges	54.4	53.7	(0.7)	-1.3%
Debt Service	32.0	29.6	(2.4)	-7.5%
Equipment	6.6	4.6	(2.0)	-30.3%
Materials, Supplies and Services	72.8	75.8	3.0	4.1%
Personnel Services	52.8	51.5	(1.3)	-2.5%
<b>Total:</b>	<b>\$218.6</b>	<b>\$215.2</b>	<b>(3.4)</b>	<b>-1.6%</b>



# OPERATING FUND RESOURCES AND EXPENDITURES

(MILLIONS OF DOLLARS)

	FY 2020	FY 2021	FY 2022
	Actual	Estimated Actual	Budget
<b>Beginning Balance</b>	<b>\$ 53.5</b>	<b>\$ 47.0</b>	<b>\$ 39.8</b>
Revenues	236.8	240.5	248.8
Lapses/ Adjustments	5.0	3.5	-
<b>Total Resources</b>	<b>295.3</b>	<b>291.0</b>	<b>288.6</b>
Operating Expenditures	186.0	194.0	215.1
Capital Improvement Program	76.4	57.3	66.0
<b>Total Expenditures</b>	<b>262.5</b>	<b>251.3</b>	<b>281.2</b>
<b>Ending Balance</b>	<b>\$ 32.8</b>	<b>\$ 39.8</b>	<b>\$ 7.5</b>





# TOTAL RESOURCES VS. TOTAL EXPENDITURES

(MILLIONS OF DOLLARS)



## BOARD ADOPTED FINANCIAL POLICIES

(FY20 AUDITED FINANCIAL STATEMENTS)

### 4.4.2 Debt Service Coverage – FY 20 **4.05x (Senior) & 3.17x (All-In)**

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 – FY20 **103 Days**

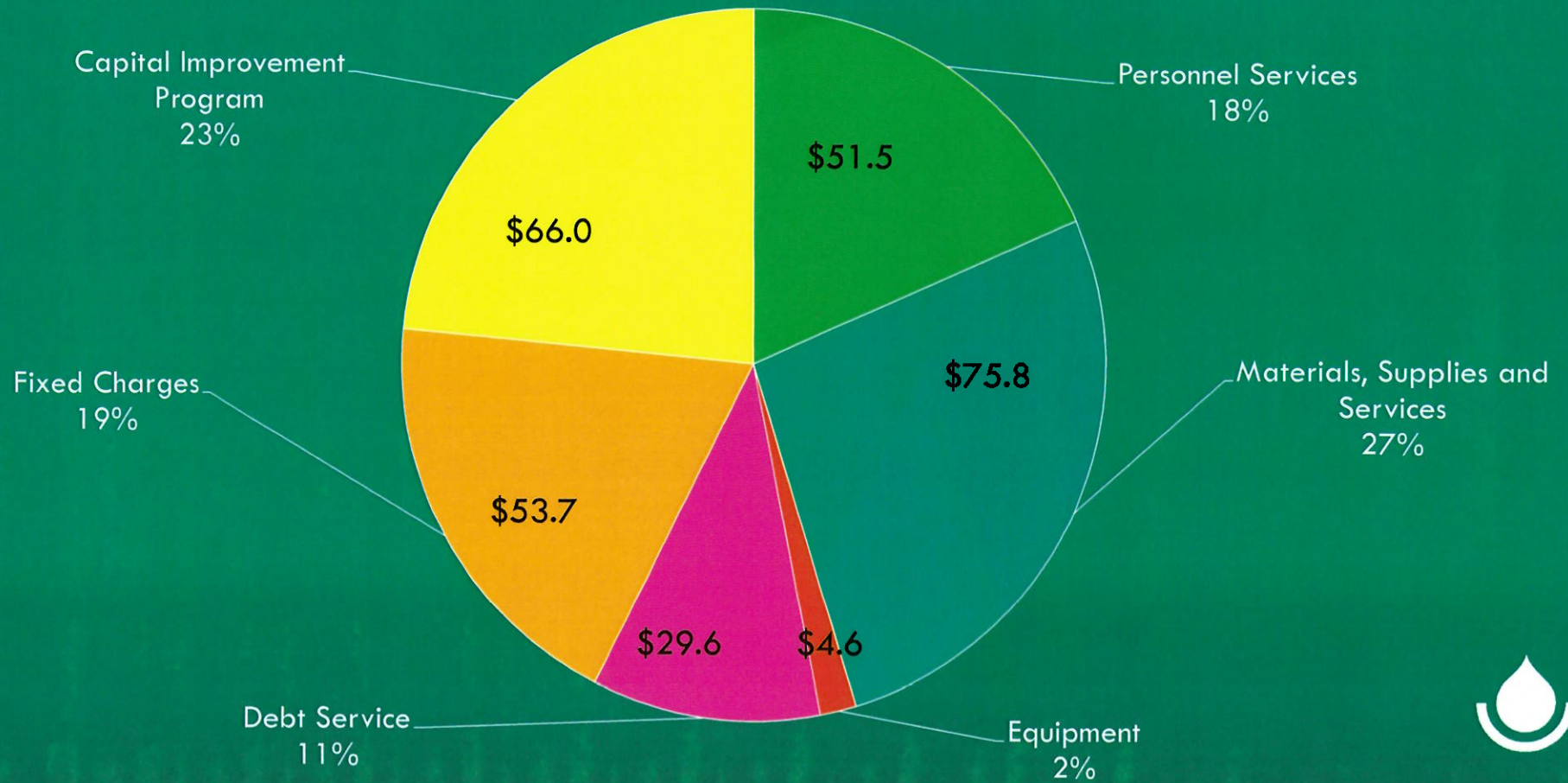
Revenue requirements include targeting 180 days of unencumbered working capital while never having less than 60 days.





# OPERATING FUND EXPENDITURES FOR FY 2022

\$281.2 million



# OPERATING FUND EXPENDITURES

(MILLIONS OF DOLLARS)





# OPERATING BUDGET EXPENDITURES (EXCLUDING CIP)



# HIGHLIGHTS OF THE OPERATING BUDGET

## Salaries

- No net increase in FTE
  - Department Staffing remains below the Authorized 741 FTE
- \$424 thousand increase in salaries or +0.8%
- Human Resources Initiatives
  - Optimize and expand operational capacity through reorganizations of functions and the leveraging of technology
  - Recruitment and Advertisement of positions through additional venues





# HIGHLIGHTS OF THE OPERATING BUDGET

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

- \$3.7 million increase in MS&S or +5.2% increase
  - Professional Services +\$1.4 million
  - Road Repairs +\$1.2 million
  - Contractual Services +\$535 thousand
  - PV System Maintenance +\$480 thousand
  - Refuse Collection & Disposal +\$360 thousand
  - Recycled Water Plant R&M -\$898 thousand



# HIGHLIGHTS OF THE OPERATING BUDGET

## Equipment

- \$1.9 million or -30.1% for new and replacement vehicles

## Debt Service

- \$5.4 million increase or +22.2% increase
  - \$4.6 million increase in principal and interest payments on bonds payable
  - \$600 thousand increase in SRF payments





# HIGHLIGHTS OF THE OPERATING BUDGET

## Fixed Charges

- \$258 thousand decrease or -0.5% decrease
  - -\$3.2 million decrease in electricity costs
  - -\$962 thousand decrease in EUTF OPEB
  - \$3.8 million increase in ERS and Health Benefits (Employees and Retirees)



## REVENUE HIGHLIGHTS

- Total revenues are projected to increase by about \$3.8 million or +1.5%
  - Metered water revenues are projected to slightly increase by \$3.3 million or +1.4% due to the rate adjustment scheduled in FY2022
  - Other revenues are projected to increase by \$410 thousand or +4.7% due to an increase in interest income





## REVENUE PROJECTIONS FY 2022

Revenue Sources	FY 2020 Actual	FY 2021 Budget	FY 2022 Budget	% Change
Metered Sales				
Potable & Non-Potable Water	\$221,369,849	\$230,000,000	\$233,300,000	1.4%
Recycled Water	\$6,078,065	\$6,361,000	\$6,408,000	0.7%
Other Revenues	\$9,305,753	\$8,730,300	\$9,140,000	4.7%
<b>TOTAL REVENUES</b>	<b>\$236,753,667</b>	<b>\$245,091,300</b>	<b>\$248,848,000</b>	<b>1.5%</b>



# OPERATING FUND REVENUES





# OPERATING FUND BUDGET SUMMARY

## - (DECREASED RESOURCES)

- The projected carry forward/beginning fund balance continues to decline
- Revenues are projected to increase slightly by \$3.7 million or 1.5%

## + INCREASED TOTAL EXPENDITURES

- Annual operating expenditures increase by 3.5%, in alignment with the Updated LRFP
- Increased Operating Funded CIP. We continue to implement the WMP Capital Program; increasing the CIP Budget and funding it with both Bonds and Cash

## = EQUALS REDUCED FUND BALANCE

- As we prepare to enter our next rate setting study, we have right-sized our Operating Budget to align with our Updated LRFP



# FY 2022 CAPITAL IMPROVEMENT PROGRAM BUDGET

JASON TAKAKI, P.E. – CAPITAL PROJECTS DIVISION  
MAY 10, 2021

[WWW.BOARDOFWATERSUPPLY.COM](http://WWW.BOARDOFWATERSUPPLY.COM)





## FY 2022 CIP

- Supports the BWS vision and mission - **Water for Life: Safe, dependable and affordable water now and into the future**
- Aligned with the BWS Water Master Plan, Strategic Plan 2018-2022, Division Goals and Objectives, and the Six-Year Capital Improvement Program



**Water Service  
Adequacy & Dependability**

**Infrastructure Costs  
Rate Affordability**





# PROJECT CATEGORIES

Research and Development

Renewal and Replacement

Capacity Expansion

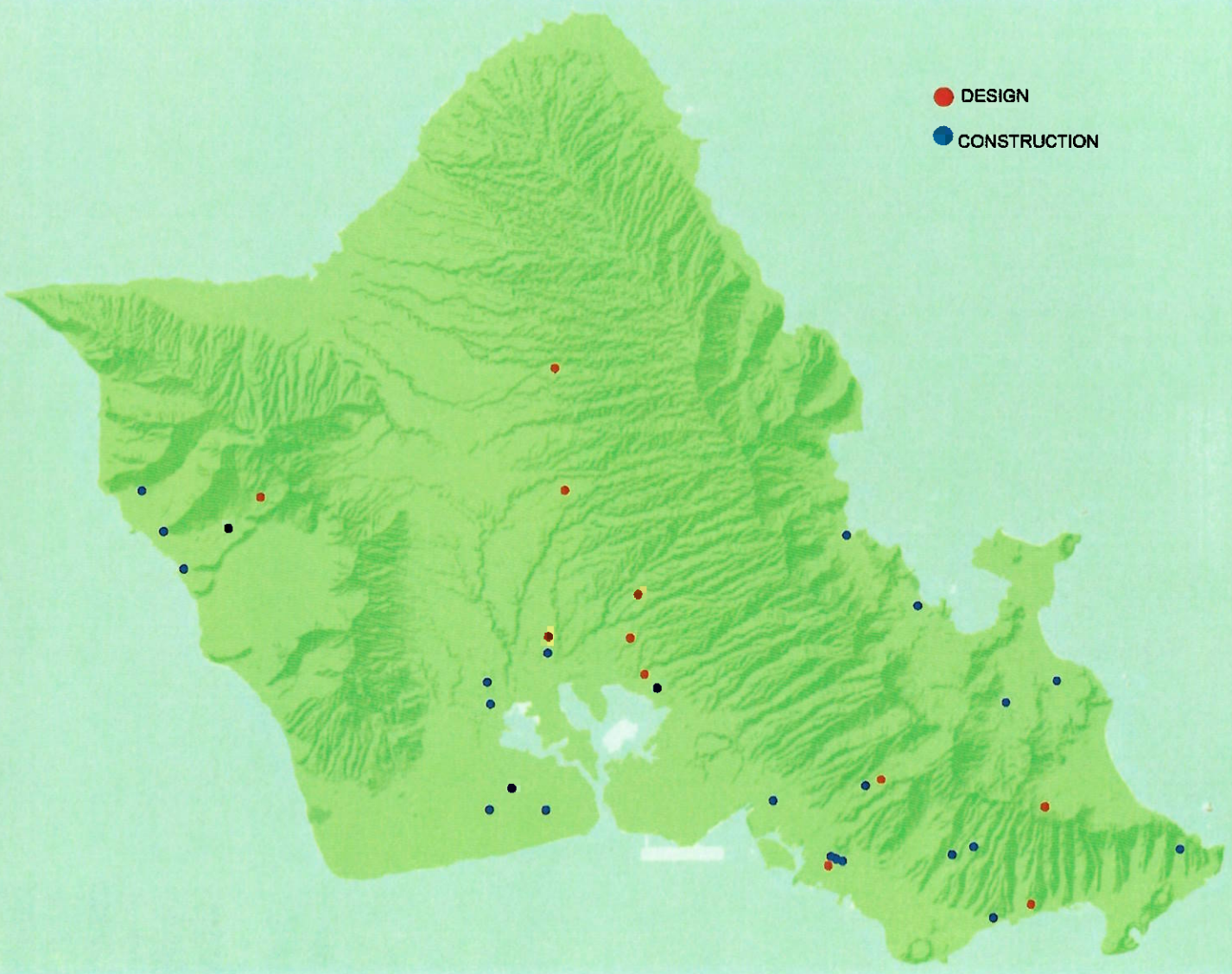


# CAPITAL IMPROVEMENT PROGRAM BUDGET FY 2022

	Categories	Operating Fund	Operating Fund (SRF Eligible)	Special Expendable Fund	Improvement Fund	Total
I.	Research & Development	\$ 6,900,000	---	---	---	\$ 6,900,000
II.	Renewal & Replacement	25,375,000	10,000,000	---	86,100,000	121,475,000
III.	Capacity Expansion	---	4,300,000	18,900,000	---	23,200,000
	Subtotal	32,275,000	14,300,000	18,900,000	86,100,000	151,575,000
	Construction Cost Index	2,421,000	1,430,000	1,700,000	7,250,000	12,801,000
	Contract Adjustment	15,600,000	---	---	---	15,600,000
	Total	\$ 50,296,000	\$ 15,730,000	\$ 20,600,000	93,350,000	\$ 179,976,000







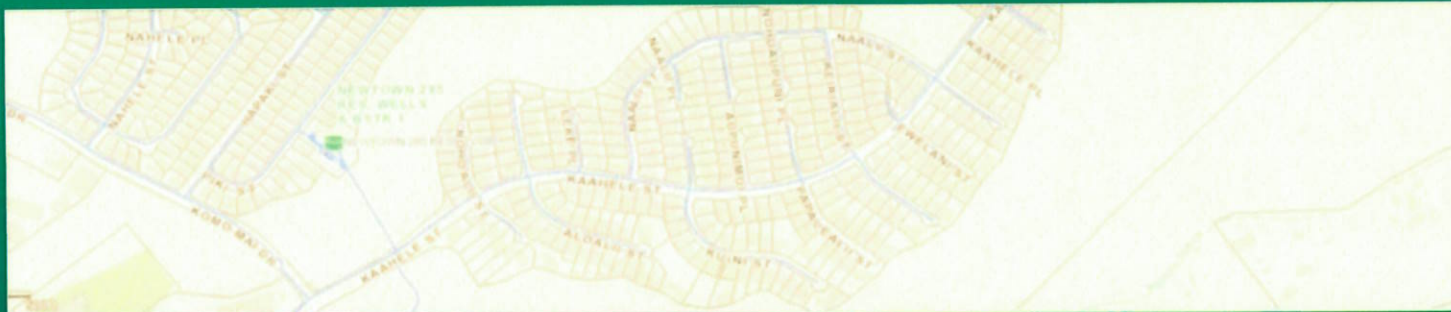
● DESIGN  
● CONSTRUCTION



# PROJECT CATEGORY HIGHLIGHTS

## Research and Development (\$6.9 million)

- Kunia Wells IV Exploratory Wells
- Construction Management for Various BWS Construction Projects
- Newtown Ridge and Royal Summit Reliability Improvements





# PROJECT CATEGORY HIGHLIGHTS

## Renewal and Replacement (\$121.5 million)

- Waialae Iki Booster No. 1 Relocation
- Waihee Line Booster: Replace Pumping Units
- Kaamilo Booster and Kaamilo Wells Renovation
- Waipio Heights Wells and Wells I renovation
- Kamaile Wells Renovation, Drainage Improvements and Well Sealing
- Makaha Shaft Tunnel Rehabilitation





# PROJECT CATEGORY HIGHLIGHTS

## Renewal and Replacement (continued)

- Granular Activated Carbon (GAC) water treatment facility corrosion control
- New Service Lateral Installations
- Beretania IT Data Center Renovation



# PROJECT CATEGORY HIGHLIGHTS

## Renewal and Replacement (continued)

- Facility Reroofing, Repair and Renovations
- Security Improvements at Various Locations

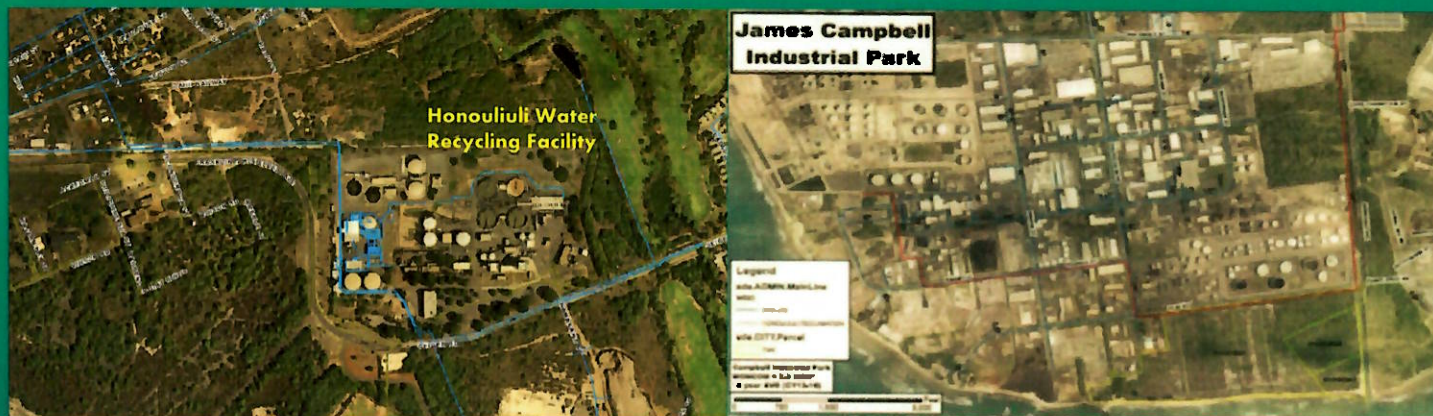




# PROJECT CATEGORY HIGHLIGHTS

## Capacity Expansion (\$23.2 million)

- Honouliuli Wastewater Treatment Plant Expansion
- 16-Inch Main
- Mililani Wells II GAC Installation
- Kalaeloa Seawater Desalination Facility







# Mahalo!

## BOARD OF WATER SUPPLY

FY 2022 Budget Workshop

Raelynn Nakabayashi & Jason Takaki, P.E.

[rnakabayashi@hbws.org](mailto:rnakabayashi@hbws.org) & [jtakaki@hbws.org](mailto:jtakaki@hbws.org)

[boardofwatersupply.com](http://boardofwatersupply.com) for more information

May 10, 2021

Providing safe, dependable, and affordable  
drinking water, now and into the future.

# **BOARD OF WATER SUPPLY**

City and County of Honolulu  
Honolulu, Hawaii



## **2022 BUDGET**

For the Fiscal Year Beginning July 1, 2021 and  
Ending June 30, 2022

**BOARD OF WATER SUPPLY  
City and County of Honolulu**

**OPERATING AND CAPITAL IMPROVEMENT PROGRAM BUDGET  
For the Fiscal Year Beginning July 1, 2021 and Ending June 30, 2022**

**BOARD MEMBERS**

Bryan P. Andaya, Chair

Kapua Sproat, Vice-Chair

Ray C. Soon, Member

Max J. Sword, Member

Na'alehu Anthony, Member

Jade T. Butay, Ex-Officio

Roger W. Babcock, Jr., Ex-Officio

SUBMITTED BY:

---

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

APPROVED:

---

BRYAN P. ANDAYA  
Board Chair  
May 24, 2021



May 24, 2021

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, 2021 to June 30, 2022 (FY 2022).

## **FINANCIAL PLAN**

The proposed Operating Budget for FY 2022 is based upon total operating fund resources of \$288.6 million, to be derived from operating revenues of \$248.8 million and an estimated carryover balance from FY 2021 of \$39.8 million. The carryover balance results from the estimated operating fund balance that is unappropriated

The proposed operating fund expenditure allocations are \$215.1 million for operating expenses and \$66 million for the Capital Improvement Program (CIP) budget. A projected ending balance of \$7.5 million will be unappropriated.

The proposed CIP budget totals \$180 million and is funded by \$66 million from the Operating Fund<sup>1</sup>; \$93.4 million from the Improvement Fund<sup>2</sup> and \$20.6 million from the Special Expendable Fund<sup>3</sup>. Of the \$66 million in Operating Funds proposed for the CIP, \$15.7 million is eligible for participation in the State of Hawaii, Department of Health State Revolving Fund (SRF) loan program. The Drinking Water State Revolving Loan Fund (DWSRF) was established by the 1996 amendments to the Safe Drinking Water Act (SDWA). The DWSRF is a financial assistance program to help water systems and states to achieve the health protection objectives of the SDWA. The DWSRF programs function like infrastructure banks by providing low interest loans to eligible recipients for drinking water infrastructure projects.

Both the Operating and CIP Budgets are aligned with the Long-Range Financial Plan Update 2021, which was adopted by the Board via Resolution 920, 2021 on February 22, 2021.

<sup>1</sup>Operating Fund" is defined as rate revenue or cash

<sup>2</sup>Improvement Fund" is defined as the proceeds of Water System Revenue Bonds

<sup>3</sup>Special Expendable Fund" is a restricted fund in which water system facilities charges are deposited and the funding reserved for water system capacity expansion projects.

## **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 2022, we are projecting total revenues of \$248.8 million; which is \$3.8 million or 1.5 percent more than total revenues budgeted for FY 2021. The Long-Range Financial Plan Update 2021 forecasted \$250 million of revenue in FY 2022. The lower budgeted amount in FY 2022 reflects conservative estimating of revenues as we evaluate the impacts of the pandemic.

Revenue Sources	FY 2020 Actual	FY 2021 Budget	FY 2022 Budget	Percent Change FY 2022 over FY 2021
Metered Sales				
Potable and Non-Potable Water*	221,369,849	230,000,000	233,300,000	1.4%
Recycled Water	6,078,065	6,361,000	6,408,000	0.7%
Other Revenues	9,305,753	8,730,300	9,140,000	4.7%
Total Revenues	<u>236,753,667</u>	<u>245,091,300</u>	<u>248,848,000</u>	<u>1.5%</u>

\*Potable Water means all water that meets State of Hawaii Department of Health Drinking Water Standards, while Non-Potable Water means all water that does not meet the same standards. Within this section, this includes non-potable brackish water.

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

Potable and non-potable water sales are projected to increase by \$3.3 million or 1.4 percent more than the FY 2021 budget amount of \$230 million. This increase is primarily due to a rate adjustment scheduled in FY 2022 and a conservative revenue estimate in the FY 2022 budget.

### **Metered Sales – Recycled Water**

Recycled water sales of \$6.4 million are projected to increase by 0.7 percent when compared to the FY 2021 budget. This increase is due to a projected increased usage and the rate adjustments scheduled in FY 2022.

### **Other Revenues**

Other Revenues of \$9.1 million will be \$410 thousand higher than the FY 2021 budget amount due to an anticipated increase in interest income of \$336 thousand. 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 2022 are budgeted at \$281.2 million. This represents an increase of \$9.7 million, or 3.6 percent more than the amount budgeted for the current fiscal year. This change is attributable to an increase in funding for materials, supplies and services of \$3.7 million; an increase in funding the department's debt service of \$5.4 million and an increase in cash funding projects in the Capital Improvement Program budget of \$2.4 million. These increases were partially offset with decreases in the equipment budget of \$1.9 million.

The Long-Range Financial Plan Update 2021 projected \$186.7 million of operations and maintenance costs in FY 2022. The amount proposed for FY 2022 remains below this amount at \$185.6 million.

Highlights of the proposed Operating Budget for FY 2022 and a comparison against the Long-Range Financial Plan Update 2021 are presented in the following table.



**Summary of Proposed Operating Budget, by Major Cost Categories**

<u>Major Cost Category</u>	<u>FY 2020 Actual</u>	<u>FY 2021 Budget</u>	<u>FY 2022 Budget</u>	<u>FY 2022 over FY 2021 Amount</u>	<u>Percent</u>
Personnel Services	41,121,397	51,061,230	51,485,567	424,337	0.8%
Materials, Supplies & Services	65,011,203	72,085,907	75,814,672	3,728,765	5.2%
Equipment	6,040,257	6,578,800	4,601,200	-1,977,600	-30.1%
Debt Service	22,588,660	24,214,000	29,588,000	5,374,000	22.2%
Fixed Charges	51,288,910	53,909,000	53,651,008	-257,992	-0.5%
Total Operating Expenditures	186,050,427	207,848,937	215,140,447	7,291,510	3.5%
Transfer to the CIP Program	76,442,460	63,627,500	66,026,000	2,398,500	3.8%
Total Expenditures	262,492,887	271,476,437	281,166,447	9,690,010	3.6%

**Comparison to Long Range Financial Plan Update 2021**

	<u>LRFP FY 2022</u>	<u>FY 2022</u>	
Personnel Services	52,800,000	51,485,567	(1,314,433)
Materials, Supplies & Services	72,800,000	75,814,672	3,014,672
Equipment	6,600,000	4,601,200	(1,998,800)
Fixed Charges	54,500,000	53,651,008	(848,992)
Operations and Maintenance	186,700,000	185,552,447	(1,147,553)

### **Personnel Services**

The proposed personnel services budget of \$51.5 million is \$424 thousand or 0.8 percent more than personnel services budgeted for the current year. The proposed operating budget includes the creation of eight (8) positions that are needed to undertake new initiatives. These new positions are being offset by the abolishment of fourteen (14) existing positions, which are no longer needed. The departmental staffing levels remains under the total of 741 authorized positions.

The eight (8) new positions proposed are:

- (1) Laboratory Quality Assurance Specialist II (Water Quality)
- (2) Planner III (Water Quality)
- (3) Civil Engineer I (Water Resources)
- (4) Civil Engineer V (Capital Projects)
- (5) Electrical Engineer IV (Capital Projects)
- (6) Senior Plant Electrical/Equipment Repairer (Water Systems Operations)
- (7) Senior Plant Electrical/Equipment Repairer (Water Systems Operations)
- (8) Radio Technician I (IT)

The fourteen (14) positions to be abolished are:

- (1) Pre-Audit Clerk I (Finance) BW257
- (2) Water Data Collection Clerk I (Finance) BW736T
- (3) Water Data Collection Clerk I (Finance) BW737T
- (4) Water Data Collection Clerk I (Finance) BW738T
- (5) Water Data Collection Clerk I (Finance) BW739T
- (6) Water Data Collection Clerk I (Finance) BW740T
- (7) Water Data Collection Clerk I (Finance) BW741T
- (8) Water Data Collection Clerk I (Finance) BW742T
- (9) Water Data Collection Clerk I (Finance) BW743T
- (10) Water Data Collection Clerk I (Finance) BW744T
- (11) Engineering Support Technician I (Capital Projects) 18CP110
- (12) Engineering Support Technician I (Capital Projects) 18CP111
- (13) Community Relations Specialist II (Communications) 19CO002
- (14) Customer Relations Assistant (Customer Service) 19CC09

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

The proposed MS&S budget of \$75.8 million is \$3.7 million or 5.2 percent more than the expenditures budgeted for the current year. This is primarily due to an increase in funding for professional services of \$1.4 million; an increase in funding for emergency and contracted road repairs of \$1.2 million; an increase in funding for contractual services of \$535 thousand; an increase in funding for storeroom materials and supplies of \$600 thousand; an increase in funding for the repair, maintenance and other services for the photo-voltaic system at various BWS facilities of \$480 thousand. These increases were partly offset by decreases in other materials and supplies of \$620 thousand and a decrease in the repair and maintenance of the recycled water plant facilities of \$898 thousand.

### **Equipment**

The proposed equipment budget of \$4.6 million is \$1.9 million or 30.1 percent less than the amount budgeted in FY 2021. This change is due to the deferred purchase of some replacement and new vehicles and equipment.

### **Debt Service**

The total debt service requirement for FY 2022 is \$29.6 million, which is \$5.4 million or 22.2 percent more than the amount budgeted in FY 2021. In FY 2022, payments to the State of Hawaii/Department of Health State Revolving Fund (SRF) loan program is scheduled to increase by \$600 thousand and principal and interest payments on the department's bonds payable is increasing by \$4.6 million.

### **Fixed Charges**

The proposed fixed charges budget of \$53.7 million is \$258 thousand or 0.5 percent less than the amount budgeted for FY 2021. This decrease of \$258 thousand is due to a decrease of \$3.2 million for electricity costs to power the department's pumping stations, reservoirs and facilities, and a decrease in funding of \$962 thousand to the State Employer-Union Trust Fund (EUTF) Other Post-Employment Benefits (OPEB) plan. These decreases were offset by increases in payments to the State of Hawaii Employee Retirement System (ERS) of \$2 million and an increase in funding the State Employer-Union Trust Fund (EUTF) health benefits for retirees.



## **PART II. CAPITAL IMPROVEMENT PROGRAM (CIP) BUDGET**

A CIP budget of \$180 million is proposed for FY 2022 to be funded as follows: Operating Fund<sup>1</sup> – \$66 million; Improvement Fund<sup>2</sup> – \$93.4 million and the Special Expendable Fund<sup>3</sup> – \$20.6 million. Of the \$66 million in CIP projects that will be funded through the Operating Fund<sup>1</sup>; \$15.7 million is eligible for participation in the State Department of Health's State Revolving Fund (SRF) loan program.

Highlights of the proposed CIP for next year includes \$6.9 million for research and development, \$121.5 million for the renewal and replacement of various BWS pipelines, facilities and pumping stations, and \$23.2 million for capacity expansion. The CIP cost categories and project descriptions are summarized starting on page CIP-SUMM.

### **Special Expendable Fund – Affordable & Homeless Housing Waiver Program**

Water system facilities charges are levied against all new developments requiring water supplies from the BWS or additional water supplies from existing water services except those where the developer installs, at its own cost, a complete water system including source, transmission, and daily storage facilities. Developers pay the water system facilities charges before water services are made available to the developments. Such water system facilities charges are deposited in the Special Expendable Fund and do not constitute Rate Revenues. The amount of fees and charges deposited into the Special Expendable Fund varies from year to year. The fund is restricted in use to funding water system expansion projects.

The Special Expendable fund balance at June 30, 2020 was \$100,673,760. The Special Expendable fund is being used to fund \$54.7 million of CIP expansion projects in FY 2021 and \$20.6 million of CIP expansion projects in FY 2022. The following table represents the deposits to the Special Expendable fund in Fiscal Years 2019 and 2020:

<b>Fiscal Year</b>	<b>Resource</b>	<b>Transmission</b>	<b>Storage</b>	<b>Total</b>
2019	2,783,540	1,313,586	2,330,572	\$ 6,427,698
2020	4,656,479	2,186,422	3,540,432	\$ 10,383,333

<sup>1</sup>"Operating Fund" is defined as rate revenue or cash

<sup>2</sup>"Improvement Fund" is defined as the proceeds of Water System Revenue Bonds

<sup>3</sup>"Special Expendable Fund" is a restricted fund in which water system facilities charges are deposited and the funding reserved for water system expansion projects.

On September 15, 2018 the Board of Water Supply adopted a revision to the Schedule of Rates and Charges for the Furnishing of Water Service to include a waiver of Water System Facilities Charges and new meter cost for qualified on-site affordable and homeless dwelling units, up to 500 dwelling units per fiscal year. To date the program has waived these fees and charges for 835 dwelling units. This equates to \$1,159,442.75 in fees and charges waived. The long-term effect of this loss of fees could result in the Operating Fund absorbing the cost of expansion projects in the future.

Respectfully submitted,

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



# **SUMMARY OF ALL FUNDS**

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**OPERATING BUDGET**

**CAPITAL IMPROVEMENT  
PROGRAM BUDGET**



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**Board of Water Supply  
Summary of All Funds  
Fiscal Year 2022**

Operating Fund	Operating Fund - SRF Eligible	Special Expendable Fund	Improvement Fund	TOTAL - All Funds
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Operating Budget	215,140,447	-	-	215,140,447
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Capital Improvement Program	50,296,000	15,730,000	20,600,000	93,350,000	179,976,000
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Total - All Funds	265,436,447	15,730,000	20,600,000	93,350,000	395,116,447
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**BOARD OF WATER SUPPLY  
OPERATING AND CAPITAL IMPROVEMENT PROGRAM BUDGET  
FISCAL YEAR 2022  
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**II. CAPITAL IMPROVEMENT PROGRAM (CIP) BUDGET**

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**Board of Water Supply  
Operating Budget  
Fiscal Year 2022**

**Department Summary**

<b>Resources and Expenditures</b>	<b>FY2020 Actual</b>	<b>FY2021 Adopted Budget</b>	<b>FY2022 Proposed Budget</b>
Beginning Balance	53,540,044	49,908,250	39,772,388
Revenues	236,753,666	245,091,300	248,848,000
Lapses/Adjustments	4,986,679	0	0
<b>Total Resources</b>	<b>295,280,389</b>	<b>294,999,550</b>	<b>288,620,388</b>
Operating Expenditures	186,050,427	207,848,937	215,140,447
Capital Program	76,442,460	63,627,500	66,026,000
Transfer to Special Expendable Fund	0	0	0
<b>Total Expenditures</b>	<b>262,492,887</b>	<b>271,476,437</b>	<b>281,166,447</b>
Ending Balance	32,787,502	23,523,113	7,453,941



**Board of Water Supply  
Operating Budget Revenues  
Fiscal Year 2022**

**Department Summary**

<b>Revenues</b>	<b>FY2020 Actual</b>	<b>FY2021 Adopted Budget</b>	<b>FY2022 Proposed Budget</b>
Metered Revenue - Potable and Non-Potable Water	221,369,849	230,000,000	233,300,000
Metered Revenue - Recycled Water (R-1)	3,191,341	3,347,000	3,484,000
Metered Revenue - Recycled Water (RO)	2,886,724	3,014,000	2,924,000
Private Fire Protection	605,370	692,000	650,000
Ocean Cooling Revenues	1,422,788	1,354,000	1,500,000
Other Water Revenues	294,000	320,000	320,000
Revenues from Water Service Installations	686,826	550,000	550,000
Revenues from Merchandising & Jobbing (M&J)	221,841	280,000	280,000
Interest Income - Operating	5,807,751	5,164,300	5,500,000
Miscellaneous Non-Operating Revenue	140,650	120,000	140,000
Non-Operating Rental Income	126,527	250,000	200,000
<b>Total</b>	<b>236,753,666</b>	<b>245,091,300</b>	<b>248,848,000</b>

**Board of Water Supply  
Operating Budget Expenditures  
Fiscal Year 2022**

**Department Summary**

<b>Expenditure Classification</b>	<b>FY2020 Actual</b>	<b>FY2021 Adopted Budget</b>	<b>FY2022 Proposed Budget</b>
Personnel Services	41,121,397	51,061,230	51,485,567
Materials, Supplies and Services	65,011,203	72,085,907	75,814,672
Equipment	6,040,257	6,578,800	4,601,200
Departmental Fixed Charges	51,288,910	53,909,000	53,651,008
Debt Service	22,588,660	24,214,000	29,588,000
<b>Operating Expenditures</b>	<b>186,050,427</b>	<b>207,848,937</b>	<b>215,140,447</b>
Transfer to Capital Improvement Program	76,442,460	63,627,500	66,026,000
Transfer to Special Expendable Fund	0	0	0
<b>Total Expenditures</b>	<b>262,492,887</b>	<b>271,476,437</b>	<b>281,166,447</b>

**Board of Water Supply**  
**Operating Budget Expenditures**  
**Fiscal Year 2022**

**Department Summary by Division/Office**

<b>Expenditure Classification (Personnel Services, Materials, Supplies and Services, and Equipment)</b>	<b>FY2020 Actual</b>	<b>FY2021 Adopted Budget</b>	<b>FY2022 Proposed Budget</b>
Manager's Office	670,614	1,071,450	922,450
Executive Support Office	7,353,615	8,692,737	9,054,865
Communications Office	1,224,826	1,301,677	1,375,439
Human Resources Office	537,789	808,600	715,000
Water Quality	8,145,431	12,221,600	13,320,610
Customer Care	4,324,275	5,691,805	5,483,410
Land	400,162	1,769,340	1,032,990
Water Resources	14,089,245	14,161,619	14,158,982
Field Operations	31,427,891	34,534,815	36,511,525
Capital Projects	5,508,419	7,710,500	8,362,200
Water System Operations	19,188,063	20,447,800	19,175,600
Information Technology	14,091,298	15,503,294	15,829,068
Finance	5,211,229	5,810,700	5,959,300
<b>Total of Divisions and Offices</b>	<b>112,172,857</b>	<b>129,725,937</b>	<b>131,901,439</b>
Departmental Fixed Charges	51,288,910	53,909,000	53,651,008
Debt Service	22,588,660	24,214,000	29,588,000
<b>Total Operating Expenditures</b>	<b>186,050,427</b>	<b>207,848,937</b>	<b>215,140,447</b>



**Board of Water Supply  
Expenses by Account Type  
Fiscal Year 2022**

**Department Summary by Division/Office**

<b>Division and Offices</b>	<b>Personnel Services</b>	<b>Materials, Supplies, and Services</b>	<b>Equipment</b>	<b>Debt Service and Dept Fixed Charges</b>	<b>FY2022 Proposed Budget</b>
Manager's Office	535,800	386,650	0	0	922,450
Executive Support Office	1,357,100	7,672,765	25,000	0	9,054,865
Communications Office	878,576	496,863	0	0	1,375,439
Human Resources Office	593,900	121,100	0	0	715,000
Water Quality	2,035,400	11,211,210	74,000	0	13,320,610
Customer Care	4,398,840	1,074,570	10,000	0	5,483,410
Land	333,900	699,090	0	0	1,032,990
Water Resources	2,778,451	11,359,031	21,500	0	14,158,982
Field Operations	18,921,200	17,562,325	28,000	0	36,511,525
Capital Projects	6,052,900	2,059,300	250,000	0	8,362,200
Water System Operations	7,095,200	8,182,700	3,897,700	0	19,175,600
Information Technology	4,067,900	11,466,168	295,000	0	15,829,068
Finance	2,436,400	3,522,900	0	0	5,959,300
<b>Total:</b>	<b>51,485,567</b>	<b>75,814,672</b>	<b>4,601,200</b>	<b>0</b>	<b>131,901,439</b>
Fixed Charges and Debt Service	0	0	0	83,239,008	83,239,008
<b>Grand Total</b>	<b>51,485,567</b>	<b>75,814,672</b>	<b>4,601,200</b>	<b>83,239,008</b>	<b>215,140,447</b>

**Board of Water Supply  
Position Budgets  
Fiscal Year 2022**

**Department Summary by Division/Office**

Division Name	Positions				Salary			
	Perm	LTA	PSC	Total	Perm	LTA	PSC	Total
Manager's Office	5.0	0.0	1.0	6.0	533,846	0	0	533,846
Executive Support Office	20.0	0.0	4.0	24.0	1,220,082	0	46,986	1,267,068
Communications Office	11.0	0.0	1.0	12.0	749,710	0	62,136	811,846
Human Resources Office	10.0	0.0	0.0	10.0	588,914	0	0	588,914
Water Quality	32.0	0.0	2.0	34.0	1,775,456	0	0	1,775,456
Customer Care	70.0	2.0	11.0	83.0	3,490,119	74,146	388,129	3,952,394
Land	5.0	0.0	0.0	5.0	309,617	0	0	309,617
Water Resources	36.0	0.0	2.0	38.0	2,597,893	0	38,268	2,636,161
Field Operations	258.0	0.0	9.0	267.0	14,995,309	0	443,340	15,438,649
Capital Projects	81.0	0.0	0.0	81.0	5,335,706	0	0	5,335,706
Water System Operations	108.0	0.0	0.0	108.0	6,196,410	0	0	6,196,410
Information Technology	55.0	0.0	4.0	59.0	3,857,261	0	45,726	3,902,987
Finance	42.0	0.0	1.0	43.0	2,301,583	0	0	2,301,583
<b>Total</b>	<b>733.0</b>	<b>2.0</b>	<b>35.0</b>	<b>770.0</b>	<b>43,951,908</b>	<b>74,146</b>	<b>1,024,585</b>	<b>45,050,638</b>

Board of Water Supply  
Operating Budget  
Debt Service  
Fiscal Year 2022

DEBT SERVICE

ISSUE	FY 2020 Actual	FY 2021 Budget	FY 2022 Budget
Water System Revenue Bonds:			
Series 2012A	2,339,088	10,092,000	8,962,000
Series 2014 A & B	5,366,034	7,837,000	5,112,000
Series 2020 A & B	849,792		4,791,000
Series 2021 A & B			3,710,000
Debt Service - Bonds Payable	8,554,913	17,929,000	22,575,000
Notes Payable:			
SRF Loans	4,029,408	6,285,000	8,197,000
Debt Service - Notes Payable	4,029,408	6,285,000	8,197,000
Total	12,584,321	24,214,000	30,772,000

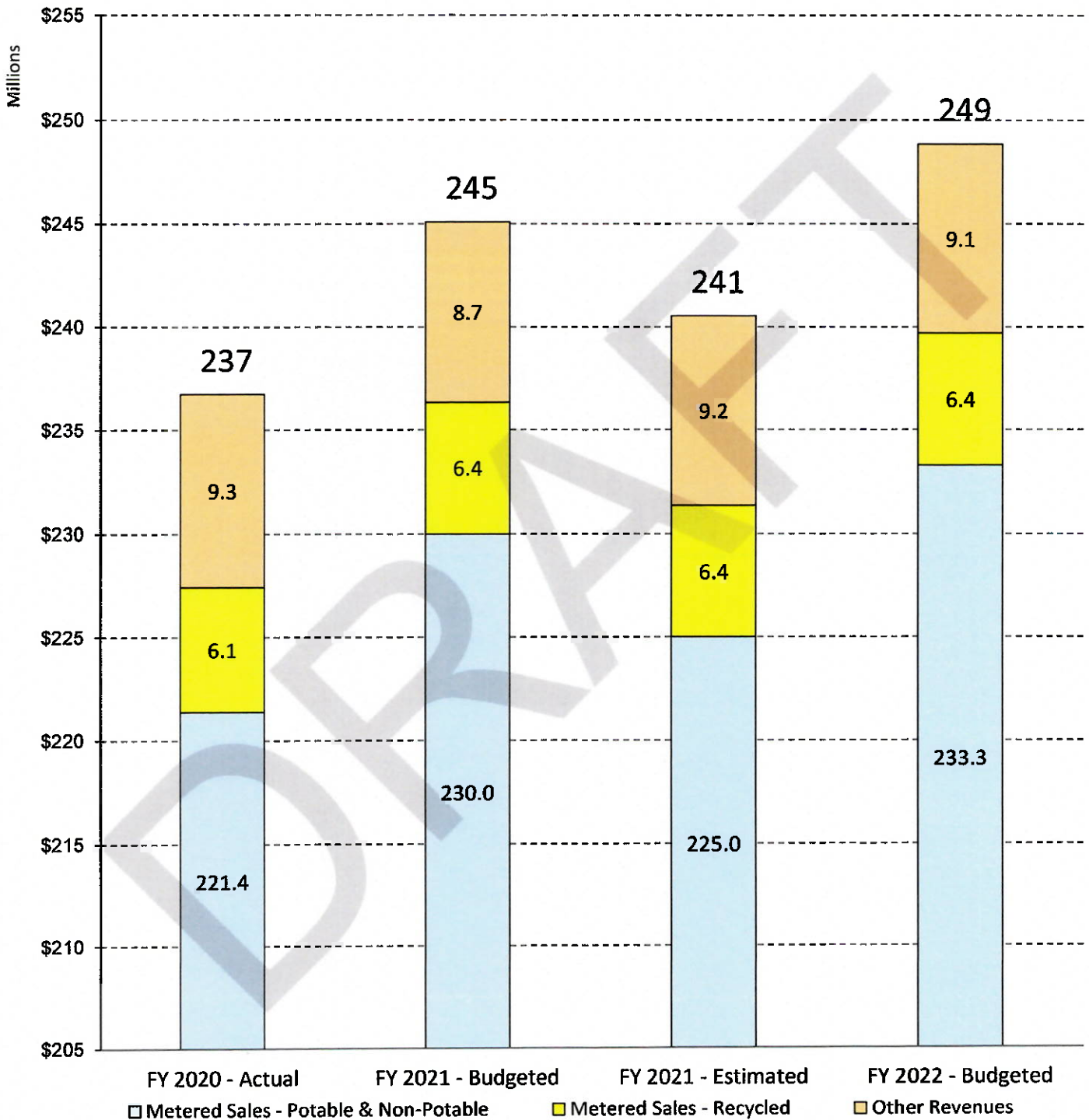
Bond Issues:			
<u>Year Issued</u>	<u>Amount</u>	<u>Fiscal Year Expires</u>	<u>Years</u>
2012A	\$ 27,115,000	2023	11
2014A	\$ 101,655,000	2037	22
2014B	\$ 25,085,000	2032	18
2020A	\$ 59,105,000	2050	30
2020B	\$ 47,530,000	2034	14
2021A	\$ 61,006,091	2051	30
2021B	\$ 45,442,808	2032	11



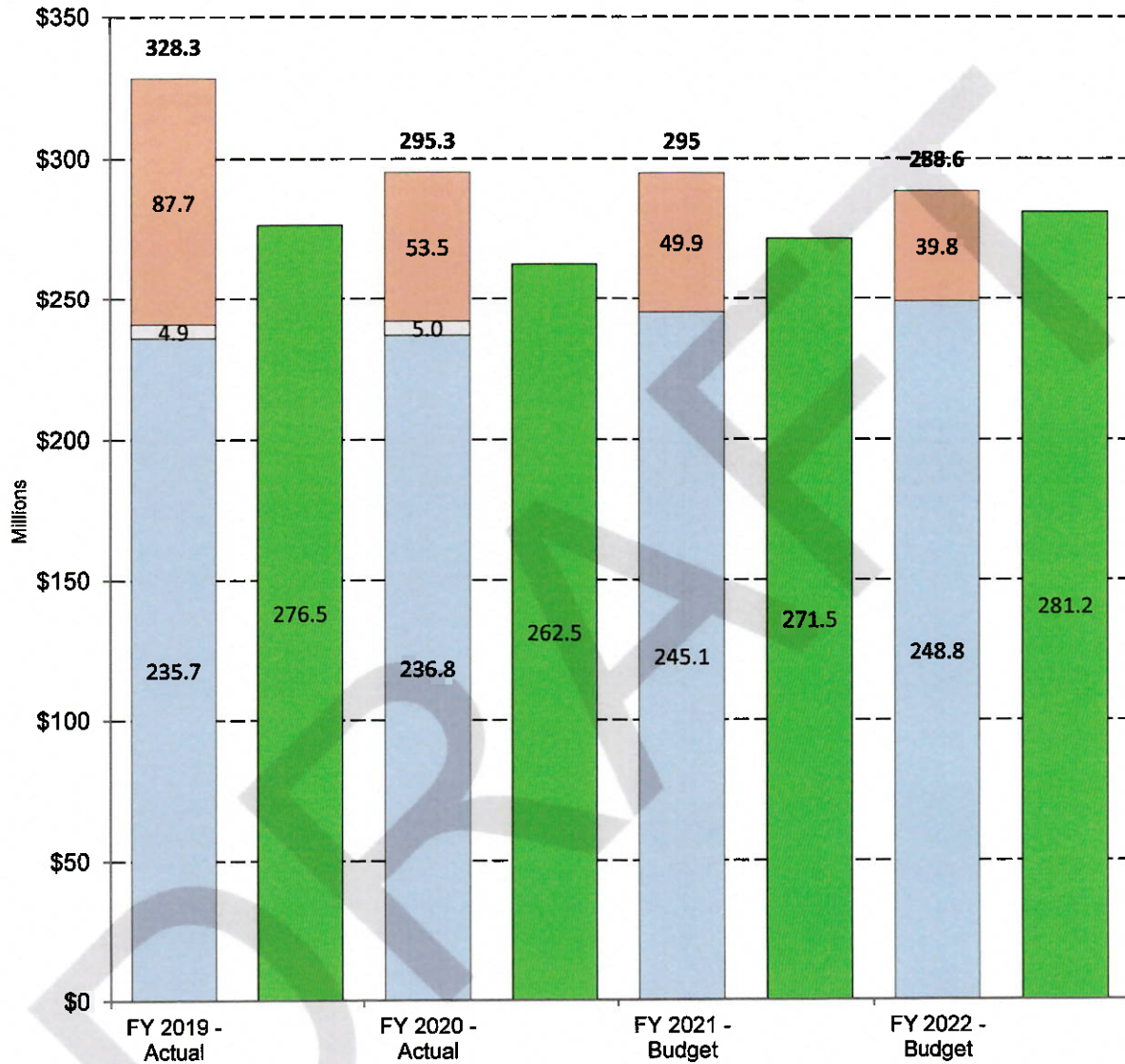
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**BOARD OF WATER SUPPLY  
OPERATING FUND REVENUES  
FISCAL YEAR 2022**



**BOARD OF WATER SUPPLY  
TOTAL RESOURCES VS. TOTAL EXPENDITURES  
FISCAL YEAR 2022**



□ Revenues

□ Lapses / Adjustments

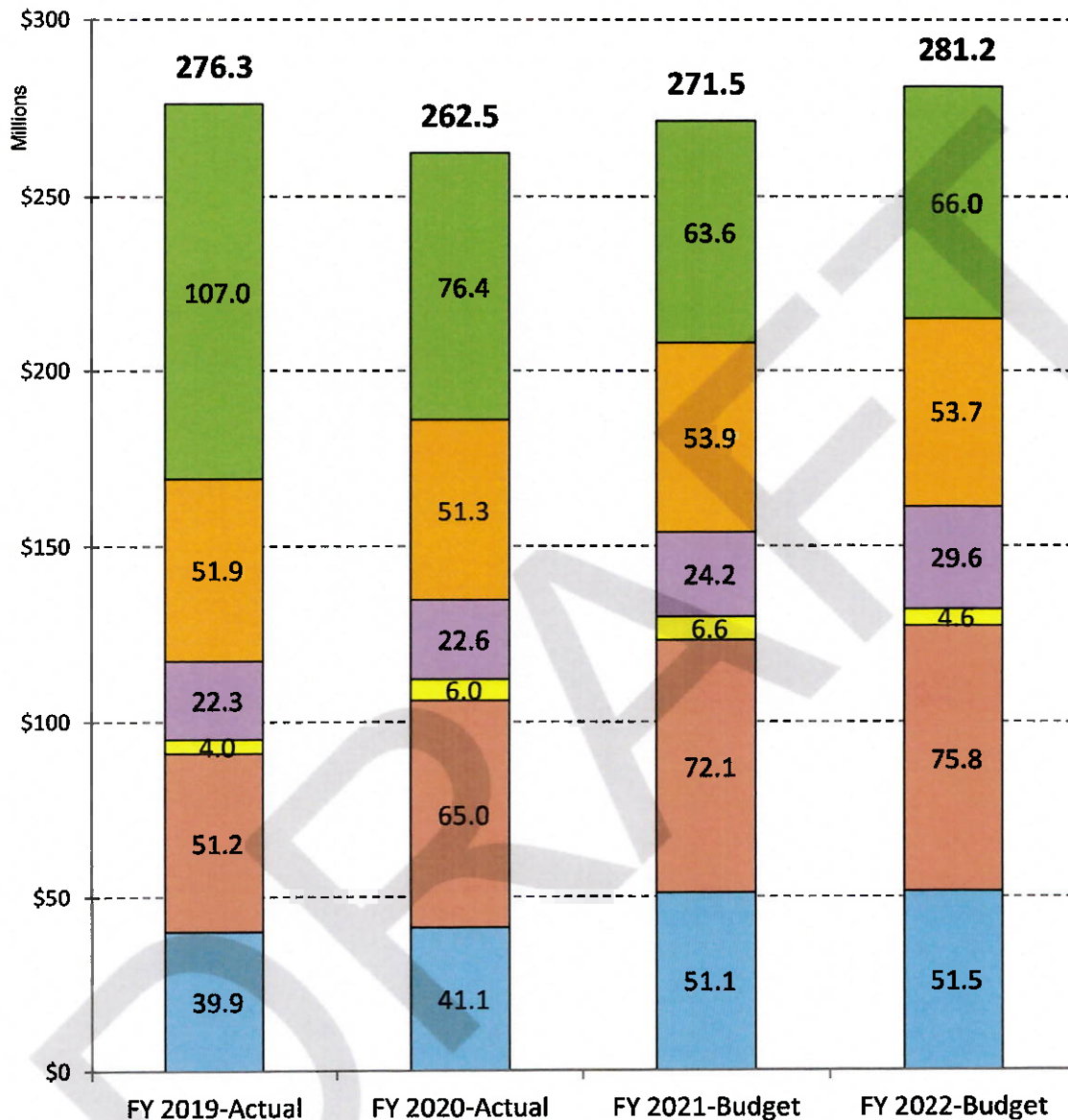
■ Fund Balance

■ Expenditures

Fiscal Year 2022	
Fund Balance 7/1/2021	\$ 39,772,388
Revenues	<u>248,848,000</u>
Total Resources	\$288,620,388
Total Expenditures	<u>-281,166,447</u>
Fund Balance 6/30/2022	<u>\$ 7,453,941</u>



**BOARD OF WATER SUPPLY  
OPERATING BUDGET EXPENDITURES (INCLUDING CIP)  
FISCAL YEAR 2022**



- Personnel Srv.
- MS&S
- Equipment
- Debt Service
- Fixed Charges
- Waivers-Sp. Ex. Fund
- CIP

Fiscal Year 2022	
CIP	\$ 66,026,000
Fixed Charges	53,651,008
Debt Service	29,588,000
Equipment	4,601,200
MS&S	75,814,672
Personnel Svcs.	51,485,567
Transfer to Spec Ex	-0-
<b>Total</b>	<b>\$281,166,447</b>

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# **PART I**

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# **OPERATING BUDGET**



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**Board of Water Supply  
Operating Budget  
Fiscal Year 2022**

**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	FY2020 Actual	FY2020 Adopted Budget	FY2021 Adopted Budget	FY2022 Proposed Budget	Change
<b>PS 4110 - Salaries &amp; Wages</b>	585,845	495,000	620,100	533,800	(86,300)
<b>4120 - Overtime</b>	0	0	1,000	2,000	1,000
<b>Personnel Services</b>	<b>585,845</b>	<b>495,000</b>	<b>621,100</b>	<b>535,800</b>	<b>(85,300)</b>
<b>M 4160 - Meals; Mileage &amp; Uniform Allowances</b>	0	0	0	0	0
<b>4250 - Other Contractual Services</b>	3,452	4,600	4,600	24,600	20,000
<b>4255 - Other Services</b>	5,030	58,800	31,300	58,800	27,500
<b>4260 - Advertising &amp; Publication of Notices</b>	0	500	500	500	0
<b>4265 - Printing</b>	0	1,000	1,000	1,000	0
<b>4270 - Professional Services</b>	15,915	35,000	135,000	35,000	(100,000)
<b>4430 - Miscellaneous Supplies</b>	1,190	5,000	5,000	5,000	0
<b>4460 - Other Materials &amp; Supplies</b>	12,489	10,000	10,000	10,000	0
<b>4480 - Postage</b>	7	0	0	0	0
<b>4500 - Education and Training</b>	3,699	0	0	0	0
<b>4720 - Conference Travel &amp; Expenses</b>	8,448	38,240	49,240	38,240	(11,000)
<b>4815 - Repair &amp; Maint - Equipment</b>	0	3,000	3,000	3,000	0
<b>4910 - Miscellaneous Fees &amp; Registration</b>	33,105	203,100	210,710	210,510	(200)
<b>8050 - Equipment (under \$5,000)</b>	1,434	0	0	0	0
<b>Materials, Supplies and Services</b>	<b>84,769</b>	<b>359,240</b>	<b>450,350</b>	<b>386,650</b>	<b>(63,700)</b>
<b>Total Manager's Office</b>	<b>670,614</b>	<b>854,240</b>	<b>1,071,450</b>	<b>922,450</b>	<b>(149,000)</b>

**Budget Highlights**

**Board of Water Supply  
Operating Budget  
Fiscal Year 2022**

**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 Statutes (HRS)103D; administers the department's safety, risk management, and security programs.

Account	FY2020 Actual	FY2020 Adopted Budget	FY2021 Adopted Budget	FY2022 Proposed Budget	Change
4110 - Salaries & Wages	1,062,130	1,310,700	1,228,100	1,267,100	39,000
4120 - Overtime	93,619	21,500	31,538	54,000	22,462
4130 - Miscellaneous (Payroll)	0	25,000	0	36,000	36,000
<b>Personnel Services</b>	<b>1,155,749</b>	<b>1,357,200</b>	<b>1,259,638</b>	<b>1,357,100</b>	<b>97,462</b>
4160 - Meals; Mileage & Uniform Allowances	3,898	1,500	1,500	1,150	(350)
4250 - Other Contractual Services	2,278,408	2,250,399	2,379,399	2,742,330	362,931
4251 - Software Licenses and Maintenance	24,500	38,000	30,000	35,000	5,000
4265 - Printing	481	1,000	850	600	(250)
4270 - Professional Services	1,149,237	1,520,000	1,489,200	1,379,200	(110,000)
4430 - Miscellaneous Supplies	39,672	34,272	14,800	25,600	10,800
4460 - Other Materials & Supplies	6,779	50,000	0	0	0
4500 - Education and Training	3,936	4,000	4,500	4,900	400
4720 - Conference Travel & Expenses	1,872	28,800	12,000	3,500	(8,500)
4805 - Repair & Maint - Structures	16,574	20,000	20,000	25,000	5,000
4910 - Miscellaneous Fees & Registration	2,404	2,280	1,250	3,650	2,400
5700 - Insurance	751,055	850,000	850,000	1,110,835	260,835
6340 - Workers Compensation Benefits	1,247,185	1,200,000	1,316,000	1,316,000	0
6350 - Claims for Pers Injuries & Prop Damage	592,729	1,000,000	1,250,000	1,000,000	(250,000)
8050 - Equipment (under \$5,000)	13,983	4,000	38,600	25,000	(13,600)
<b>Materials, Supplies and Services</b>	<b>6,132,712</b>	<b>7,004,251</b>	<b>7,408,099</b>	<b>7,672,765</b>	<b>264,666</b>
1270 - General Plant & Equip (over \$5,000)	65,154	125,000	25,000	25,000	0
<b>Equipment</b>	<b>65,154</b>	<b>125,000</b>	<b>25,000</b>	<b>25,000</b>	<b>0</b>
<b>Total ESO - Executive Support Office</b>	<b>7,353,615</b>	<b>8,486,451</b>	<b>8,692,737</b>	<b>9,054,865</b>	<b>362,128</b>

**Notes**

**Board of Water Supply  
Operating Budget  
Fiscal Year 2022**

**ESO - Executive Support Office**

**5105 - Executive Support Office - Administration**

**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	FY2020 Actual	FY2020 Adopted Budget	FY2021 Adopted Budget	FY2022 Proposed Budget	Change
4110 - Salaries & Wages	137,841	238,400	148,800	232,800	84,000
4120 - Overtime	10,965	1,000	650	7,500	6,850
4130 - Miscellaneous (Payroll)	0	0	0	0	0
<b>Personnel Services</b>	<b>148,806</b>	<b>239,400</b>	<b>149,450</b>	<b>240,300</b>	<b>90,850</b>
4160 - Meals; Mileage & Uniform Allowances	532	0	0	0	0
4250 - Other Contractual Services	3,865	249,200	17,500	16,000	(1,500)
4265 - Printing	8	500	250	0	(250)
4270 - Professional Services	179,200	100,000	209,200	209,200	0
4430 - Miscellaneous Supplies	8,689	3,000	1,500	3,000	1,500
4460 - Other Materials & Supplies	35	0	0	0	0
4500 - Education and Training	610	1,000	500	500	0
4720 - Conference Travel & Expenses	1,872	0	2,000	0	(2,000)
4910 - Miscellaneous Fees & Registration	0	1,000	0	0	0
8050 - Equipment (under \$5,000)	449	0	0	0	0
<b>Materials, Supplies and Services</b>	<b>195,259</b>	<b>354,700</b>	<b>230,950</b>	<b>228,700</b>	<b>(2,250)</b>
1270 - General Plant & Equip (over \$5,000)	29,972	0	0	0	0
<b>Equipment</b>	<b>29,972</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Total Executive Support Office - Administration</b>	<b>374,037</b>	<b>594,100</b>	<b>380,400</b>	<b>469,000</b>	<b>88,600</b>

**Budget Highlights**



**Board of Water Supply  
Operating Budget  
Fiscal Year 2022**

**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	FY2020 Actual	FY2020 Adopted Budget	FY2021 Adopted Budget	FY2022 Proposed Budget	Change
P 4110 - Salaries & Wages	311,183	327,500	335,400	336,200	800
4120 - Overtime	4,696	5,000	6,950	6,000	(950)
4130 - Miscellaneous (Payroll)	0	0	0	0	0
<b>Personnel Services</b>	<b>315,879</b>	<b>332,500</b>	<b>342,350</b>	<b>342,200</b>	<b>(150)</b>
4160 - Meals; Mileage & Uniform Allowances	381	1,200	1,200	750	(450)
4250 - Other Contractual Services	11,598	3,199	17,899	17,730	(169)
4265 - Printing	44	0	0	0	0
4270 - Professional Services	947,677	1,420,000	1,050,000	1,170,000	120,000
4430 - Miscellaneous Supplies	4,517	6,272	7,300	7,600	300
4460 - Other Materials & Supplies	1,576	0	0	0	0
4500 - Education and Training	2,501	3,000	2,750	2,900	150
4720 - Conference Travel & Expenses	0	20,800	10,000	3,500	(6,500)
4910 - Miscellaneous Fees & Registration	2,404	1,280	1,250	3,650	2,400
5700 - Insurance	751,055	850,000	850,000	1,110,835	260,835
6340 - Workers Compensation Benefits	1,247,185	1,200,000	1,316,000	1,316,000	0
6350 - Claims for Pers Injuries & Prop Damage	592,729	1,000,000	1,250,000	1,000,000	(250,000)
8050 - Equipment (under \$5,000)	4,118	0	0	0	0
<b>Materials, Supplies and Services</b>	<b>3,565,785</b>	<b>4,505,751</b>	<b>4,506,399</b>	<b>4,632,965</b>	<b>126,566</b>
E 1270 - General Plant & Equip (over \$5,000)	22,074	0	0	0	0
<b>Equipment</b>	<b>22,074</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Total Risk Management</b>	<b>3,903,738</b>	<b>4,838,251</b>	<b>4,848,749</b>	<b>4,975,165</b>	<b>126,416</b>

**Budget Highlights**

**Board of Water Supply  
Operating Budget  
Fiscal Year 2022**

**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	FY2020 Actual	FY2020 Adopted Budget	FY2021 Adopted Budget	FY2022 Proposed Budget	Change
4110 - Salaries & Wages	210,062	245,900	159,000	92,100	(66,900)
4120 - Overtime	5,037	10,000	6,250	6,500	250
4130 - Miscellaneous (Payroll)	0	0	0	0	0
<b>Personnel Services</b>	<b>215,099</b>	<b>255,900</b>	<b>165,250</b>	<b>98,600</b>	<b>(66,650)</b>
4160 - Meals; Mileage & Uniform Allowances	318	300	300	400	100
4250 - Other Contractual Services	2,241,218	1,998,000	2,344,000	2,708,600	364,600
4270 - Professional Services	0	0	100,000	0	(100,000)
4430 - Miscellaneous Supplies	26,096	25,000	6,000	15,000	9,000
4460 - Other Materials & Supplies	5,161	50,000	0	0	0
4805 - Repair & Maint - Structures	8,746	20,000	20,000	25,000	5,000
8050 - Equipment (under \$5,000)	898	4,000	35,000	25,000	(10,000)
<b>Materials, Supplies and Services</b>	<b>2,282,436</b>	<b>2,097,300</b>	<b>2,505,300</b>	<b>2,774,000</b>	<b>268,700</b>
1270 - General Plant & Equip (over \$5,000)	0	0	25,000	25,000	0
<b>Equipment</b>	<b>0</b>	<b>0</b>	<b>25,000</b>	<b>25,000</b>	<b>0</b>
<b>Total Security Office</b>	<b>2,497,535</b>	<b>2,353,200</b>	<b>2,695,550</b>	<b>2,897,600</b>	<b>202,050</b>

**Budget Highlights**

**Board of Water Supply  
Operating Budget  
Fiscal Year 2022**

**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	FY2020 Actual	FY2020 Adopted Budget	FY2021 Adopted Budget	FY2022 Proposed Budget	Change
PS 4110 - Salaries & Wages	148,404	160,500	213,000	218,000	5,000
4120 - Overtime	6,274	4,000	3,688	4,000	312
4130 - Miscellaneous (Payroll)	0	0	0	36,000	36,000
<b>Personnel Services</b>	<b>154,679</b>	<b>164,500</b>	<b>216,688</b>	<b>258,000</b>	<b>41,312</b>
4160 - Meals; Mileage & Uniform Allowances	230	0	0	0	0
4250 - Other Contractual Services	474	0	0	0	0
4251 - Software Licenses and Maintenance	24,500	38,000	30,000	35,000	5,000
4265 - Printing	429	500	600	600	0
8050 - Equipment (under \$5,000)	449	0	3,600	0	(3,600)
<b>Materials, Supplies and Services</b>	<b>26,082</b>	<b>38,500</b>	<b>34,200</b>	<b>35,600</b>	<b>1,400</b>
E 1270 - General Plant & Equip (over \$5,000)	13,109	45,000	0	0	0
<b>Equipment</b>	<b>13,109</b>	<b>45,000</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Total Management and Budget</b>	<b>193,869</b>	<b>248,000</b>	<b>250,888</b>	<b>293,600</b>	<b>42,712</b>

**Budget Highlights**

**Board of Water Supply  
Operating Budget  
Fiscal Year 2022**

**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 Statutes Chapter 103D and the Hawaii Administrative Rules.

Account	FY2020 Actual	FY2020 Adopted Budget	FY2021 Adopted Budget	FY2022 Proposed Budget	Change
PS 4110 - Salaries & Wages	254,639	338,400	371,900	388,000	16,100
4120 - Overtime	66,647	1,500	14,000	30,000	16,000
4130 - Miscellaneous (Payroll)	0	25,000	0	0	0
<b>Personnel Services</b>	<b>321,286</b>	<b>364,900</b>	<b>385,900</b>	<b>418,000</b>	<b>32,100</b>
4160 - Meals; Mileage & Uniform Allowances	2,436	0	0	0	0
4250 - Other Contractual Services	21,253	0	0	0	0
4270 - Professional Services	22,360	0	130,000	0	(130,000)
4430 - Miscellaneous Supplies	370	0	0	0	0
4460 - Other Materials & Supplies	8	0	0	0	0
4500 - Education and Training	825	0	1,250	1,500	250
4720 - Conference Travel & Expenses	0	8,000	0	0	0
4805 - Repair & Maint - Structures	7,828	0	0	0	0
8050 - Equipment (under \$5,000)	8,069	0	0	0	0
<b>Materials, Supplies and Services</b>	<b>63,150</b>	<b>8,000</b>	<b>131,250</b>	<b>1,500</b>	<b>(129,750)</b>
E 1270 - General Plant & Equip (over \$5,000)	0	80,000	0	0	0
<b>Equipment</b>	<b>0</b>	<b>80,000</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Total Procurement Section</b>	<b>384,436</b>	<b>452,900</b>	<b>517,150</b>	<b>419,500</b>	<b>(97,650)</b>

**Budget Highlights**



**Board of Water Supply  
Operating Budget  
Fiscal Year 2022**

**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	FY2020 Actual	FY2020 Adopted Budget	FY2021 Adopted Budget	FY2022 Proposed Budget	Change
<b>P 4110 - Salaries &amp; Wages</b>	811,548	774,600	779,800	811,800	32,000
4120 - Overtime	55,289	62,035	48,000	39,172	(8,828)
4130 - Miscellaneous (Payroll)	50	50,532	26,800	27,604	804
<b>Personnel Services</b>	<b>866,887</b>	<b>887,167</b>	<b>854,600</b>	<b>878,576</b>	<b>23,976</b>
4160 - Meals; Mileage & Uniform Allowances	2,525	1,053	2,500	2,500	0
4250 - Other Contractual Services	281,111	347,944	348,378	345,504	(2,874)
4251 - Software Licenses and Maintenance	2,866	24,531	9,469	11,059	1,590
4260 - Advertising & Publication of Notices	0	16,940	0	0	0
4265 - Printing	7,194	66,000	43,900	64,950	21,050
4430 - Miscellaneous Supplies	6,239	4,800	3,000	2,000	(1,000)
4460 - Other Materials & Supplies	44,812	55,000	35,644	45,806	10,162
4480 - Postage	329	15,600	660	15,660	15,000
4500 - Education and Training	4,900	11,200	250	5,030	4,780
4720 - Conference Travel & Expenses	0	0	0	0	0
4815 - Repair & Maint - Equipment	0	932	1,032	1,080	48
4910 - Miscellaneous Fees & Registration	4,355	10,520	684	1,018	334
8050 - Equipment (under \$5,000)	3,607	5,000	1,560	2,256	696
<b>Materials, Supplies and Services</b>	<b>357,939</b>	<b>559,520</b>	<b>447,077</b>	<b>496,863</b>	<b>49,786</b>
<b>E 1270 - General Plant &amp; Equip (over \$5,000)</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Equipment</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Total Communications Office</b>	<b>1,224,826</b>	<b>1,446,687</b>	<b>1,301,677</b>	<b>1,375,439</b>	<b>73,762</b>

**Budget Highlights**

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**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	FY2020 Actual	FY2020 Adopted Budget	FY2021 Adopted Budget	FY2022 Proposed Budget	Change
<b>PS 4110 - Salaries &amp; Wages</b>	494,894	568,900	581,000	588,900	7,900
4120 - Overtime	3,542	5,000	5,000	5,000	0
4130 - Miscellaneous (Payroll)	0	0	0	0	0
<b>Personnel Services</b>	<b>498,436</b>	<b>573,900</b>	<b>586,000</b>	<b>593,900</b>	<b>7,900</b>
4160 - Meals; Mileage & Uniform Allowances	343	300	300	300	0
4250 - Other Contractual Services	10,139	100,000	130,000	30,000	(100,000)
4260 - Advertising & Publication of Notices	465	5,000	5,000	5,000	0
4430 - Miscellaneous Supplies	1,699	2,500	2,500	2,500	0
4460 - Other Materials & Supplies	1,372	6,000	6,000	6,000	0
4480 - Postage	44	100	100	100	0
4500 - Education and Training	10,222	71,200	60,000	60,000	0
4720 - Conference Travel & Expenses	9,301	15,800	16,100	16,100	0
4815 - Repair & Maint - Equipment	107	1,250	550	550	0
4910 - Miscellaneous Fees & Registration	528	500	550	550	0
8050 - Equipment (under \$5,000)	5,133	0	0	0	0
<b>Materials, Supplies and Services</b>	<b>39,353</b>	<b>202,650</b>	<b>221,100</b>	<b>121,100</b>	<b>(100,000)</b>
<b>E 1270 - General Plant &amp; Equip (over \$5,000)</b>	<b>0</b>	<b>5,500</b>	<b>1,500</b>	<b>0</b>	<b>(1,500)</b>
<b>Equipment</b>	<b>0</b>	<b>5,500</b>	<b>1,500</b>	<b>0</b>	<b>(1,500)</b>
<b>Total Human Resources Office</b>	<b>537,789</b>	<b>782,050</b>	<b>808,600</b>	<b>715,000</b>	<b>(93,600)</b>

**Budget Highlights**

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**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	FY2020 Actual	FY2020 Adopted Budget	FY2021 Adopted Budget	FY2022 Proposed Budget	Change
4110 - Salaries & Wages	1,626,545	1,684,400	1,857,000	1,775,400	(81,600)
4120 - Overtime	161,025	295,000	320,000	200,000	(120,000)
4130 - Miscellaneous (Payroll)	0	1,000	70,000	60,000	(10,000)
<b>Personnel Services</b>	<b>1,787,570</b>	<b>1,980,400</b>	<b>2,247,000</b>	<b>2,035,400</b>	<b>(211,600)</b>
4160 - Meals; Mileage & Uniform Allowances	6,254	14,000	13,210	11,410	(1,800)
4250 - Other Contractual Services	612,058	681,400	680,500	704,100	23,600
4251 - Software Licenses and Maintenance	101,854	85,000	0	0	0
4270 - Professional Services	5,397,014	6,970,000	8,815,000	10,291,000	1,476,000
4430 - Miscellaneous Supplies	234	2,320	2,820	500	(2,320)
4460 - Other Materials & Supplies	115,206	148,300	218,000	130,000	(88,000)
4500 - Education and Training	442	26,740	29,120	10,300	(18,820)
4720 - Conference Travel & Expenses	25,441	66,000	52,300	2,550	(49,750)
4815 - Repair & Maint - Equipment	3,706	32,100	36,500	29,250	(7,250)
4910 - Miscellaneous Fees & Registration	10,581	21,900	26,700	23,700	(3,000)
8050 - Equipment (under \$5,000)	29,260	52,290	67,450	8,400	(59,050)
<b>Materials, Supplies and Services</b>	<b>6,302,049</b>	<b>8,100,050</b>	<b>9,941,600</b>	<b>11,211,210</b>	<b>1,269,610</b>
1270 - General Plant & Equip (over \$5,000)	55,812	155,500	33,000	74,000	41,000
<b>Equipment</b>	<b>55,812</b>	<b>155,500</b>	<b>33,000</b>	<b>74,000</b>	<b>41,000</b>
<b>Total WQ - Water Quality</b>	<b>8,145,431</b>	<b>10,235,950</b>	<b>12,221,600</b>	<b>13,320,610</b>	<b>1,099,010</b>

Notes

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**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	FY2020 Actual	FY2020 Adopted Budget	FY2021 Adopted Budget	FY2022 Proposed Budget	Change
<b>PS 4110 - Salaries &amp; Wages</b>	388,442	405,300	407,300	337,800	(69,500)
4130 - Miscellaneous (Payroll)	0	0	0	0	0
<b>Personnel Services</b>	<b>388,442</b>	<b>405,300</b>	<b>407,300</b>	<b>337,800</b>	<b>(69,500)</b>
<b>M 4160 - Meals; Mileage &amp; Uniform Allowances</b>	0	0	10	10	0
4250 - Other Contractual Services	18,421	3,600	3,600	20,000	16,400
4251 - Software Licenses and Maintenance	0	0	0	0	0
4270 - Professional Services	5,316,966	6,770,000	8,575,000	10,125,000	1,550,000
4430 - Miscellaneous Supplies	234	500	1,000	500	(500)
4460 - Other Materials & Supplies	7,414	300	76,000	7,000	(69,000)
4500 - Education and Training	40	21,800	21,800	1,500	(20,300)
4720 - Conference Travel & Expenses	19,996	47,900	32,700	1,550	(31,150)
4815 - Repair & Maint - Equipment	1,524	0	0	2,000	2,000
4910 - Miscellaneous Fees & Registration	0	1,800	2,000	0	(2,000)
8050 - Equipment (under \$5,000)	2,422	5,000	0	0	0
<b>Materials, Supplies and Services</b>	<b>5,367,017</b>	<b>6,850,900</b>	<b>8,712,110</b>	<b>10,157,560</b>	<b>1,445,450</b>
1270 - General Plant & Equip (over \$5,000)	55,812	75,000	0	0	0
<b>Equipment</b>	<b>55,812</b>	<b>75,000</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Total Water Quality Administration</b>	<b>5,811,270</b>	<b>7,331,200</b>	<b>9,119,410</b>	<b>10,495,360</b>	<b>1,375,950</b>

**Budget Highlights**



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**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	FY2020 Actual	FY2020 Adopted Budget	FY2021 Adopted Budget	FY2022 Proposed Budget	Change
4110 - Salaries & Wages	531,140	576,200	552,000	538,300	(13,700)
4120 - Overtime	50,542	25,000	50,000	50,000	0
4130 - Miscellaneous (Payroll)	0	0	40,000	30,000	(10,000)
<b>Personnel Services</b>	<b>581,681</b>	<b>601,200</b>	<b>642,000</b>	<b>618,300</b>	<b>(23,700)</b>
4160 - Meals; Mileage & Uniform Allowances	1,391	2,000	1,200	1,400	200
4250 - Other Contractual Services	478,727	665,800	662,300	665,600	3,300
4270 - Professional Services	80,048	100,000	140,000	91,000	(49,000)
4430 - Miscellaneous Supplies	0	1,820	1,820	0	(1,820)
4460 - Other Materials & Supplies	33,033	42,000	40,000	0	(40,000)
4500 - Education and Training	138	740	1,720	1,600	(120)
4720 - Conference Travel & Expenses	850	6,300	6,300	1,000	(5,300)
4815 - Repair & Maint - Equipment	39	10,000	15,000	6,750	(8,250)
4910 - Miscellaneous Fees & Registration	1,953	7,500	7,500	7,700	200
8050 - Equipment (under \$5,000)	0	7,390	8,050	2,000	(6,050)
<b>Materials, Supplies and Services</b>	<b>596,179</b>	<b>843,550</b>	<b>883,890</b>	<b>777,050</b>	<b>(106,840)</b>
1270 - General Plant & Equip (over \$5,000)	0	0	8,000	0	(8,000)
<b>Equipment</b>	<b>0</b>	<b>0</b>	<b>8,000</b>	<b>0</b>	<b>(8,000)</b>
<b>Total Chemical Laboratory</b>	<b>1,177,860</b>	<b>1,444,750</b>	<b>1,533,890</b>	<b>1,395,350</b>	<b>(138,540)</b>

**Budget Highlights**

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**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	FY2020 Actual	FY2020 Adopted Budget	FY2021 Adopted Budget	FY2022 Proposed Budget	Change
<b>PS 4110 - Salaries &amp; Wages</b>	478,968	515,900	618,800	618,600	(200)
4120 - Overtime	40,426	120,000	120,000	50,000	(70,000)
4130 - Miscellaneous (Payroll)	0	1,000	30,000	30,000	0
<b>Personnel Services</b>	<b>519,394</b>	<b>636,900</b>	<b>768,800</b>	<b>698,600</b>	<b>(70,200)</b>
4160 - Meals; Mileage & Uniform Allowances	2,028	5,000	5,000	5,000	0
4250 - Other Contractual Services	107,902	5,500	5,600	11,500	5,900
4251 - Software Licenses and Maintenance	101,854	85,000	0	0	0
4270 - Professional Services	0	100,000	100,000	75,000	(25,000)
4430 - Miscellaneous Supplies	0	0	0	0	0
4460 - Other Materials & Supplies	69,399	56,000	58,000	70,000	12,000
4500 - Education and Training	265	4,200	5,600	4,200	(1,400)
4720 - Conference Travel & Expenses	4,595	11,800	13,300	0	(13,300)
4815 - Repair & Maint - Equipment	2,142	4,000	4,000	3,000	(1,000)
4910 - Miscellaneous Fees & Registration	7,628	9,100	14,200	15,000	800
8050 - Equipment (under \$5,000)	19,893	12,000	4,900	2,100	(2,800)
<b>Materials, Supplies and Services</b>	<b>315,705</b>	<b>292,600</b>	<b>210,600</b>	<b>185,800</b>	<b>(24,800)</b>
<b>E 1270 - General Plant &amp; Equip (over \$5,000)</b>	<b>0</b>	<b>80,500</b>	<b>20,000</b>	<b>6,000</b>	<b>(14,000)</b>
<b>Equipment</b>	<b>0</b>	<b>80,500</b>	<b>20,000</b>	<b>6,000</b>	<b>(14,000)</b>
<b>Total Microbiological Laboratory</b>	<b>835,099</b>	<b>1,010,000</b>	<b>999,400</b>	<b>890,400</b>	<b>(109,000)</b>

**Budget Highlights**

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**WQ - Water Quality**

**5255 - Cross-Connection Control**

**Section's Activity**

Account	FY2020 Actual	FY2020 Adopted Budget	FY2021 Adopted Budget	FY2022 Proposed Budget	Change
PS 4110 - Salaries & Wages	227,996	187,000	278,900	280,700	1,800
4120 - Overtime	70,057	150,000	150,000	100,000	(50,000)
4130 - Miscellaneous (Payroll)	0	0	0	0	0
<b>Personnel Services</b>	<b>298,053</b>	<b>337,000</b>	<b>428,900</b>	<b>380,700</b>	<b>(48,200)</b>
4160 - Meals; Mileage & Uniform Allowances	2,835	7,000	7,000	5,000	(2,000)
4250 - Other Contractual Services	7,008	6,500	9,000	7,000	(2,000)
4460 - Other Materials & Supplies	5,360	50,000	44,000	53,000	9,000
4500 - Education and Training	0	0	0	3,000	3,000
4815 - Repair & Maint - Equipment	0	18,100	17,500	17,500	0
4910 - Miscellaneous Fees & Registration	1,000	3,500	3,000	1,000	(2,000)
8050 - Equipment (under \$5,000)	6,945	27,900	54,500	4,300	(50,200)
<b>Materials, Supplies and Services</b>	<b>23,148</b>	<b>113,000</b>	<b>135,000</b>	<b>90,800</b>	<b>(44,200)</b>
E 1270 - General Plant & Equip (over \$5,000)	0	0	5,000	68,000	63,000
<b>Equipment</b>	<b>0</b>	<b>0</b>	<b>5,000</b>	<b>68,000</b>	<b>63,000</b>
<b>Total Cross-Connection Control</b>	<b>321,201</b>	<b>450,000</b>	<b>568,900</b>	<b>539,500</b>	<b>(29,400)</b>

**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	FY2020 Actual	FY2020 Adopted Budget	FY2021 Adopted Budget	FY2022 Proposed Budget	Change
PE 4110 - Salaries & Wages	3,077,451	3,747,100	4,028,900	3,952,400	(76,500)
4120 - Overtime	276,353	437,100	451,000	327,440	(123,560)
4130 - Miscellaneous (Payroll)	78,162	194,000	116,000	119,000	3,000
<b>Personnel Services</b>	<b>3,431,966</b>	<b>4,378,200</b>	<b>4,595,900</b>	<b>4,398,840</b>	<b>(197,060)</b>
4160 - Meals; Mileage & Uniform Allowances	20,023	29,540	29,560	32,700	3,140
4220 - Collection Fees	491,768	850,000	876,000	872,820	(3,180)
4250 - Other Contractual Services	244,883	139,200	66,645	77,420	10,775
4267 - Printed forms	541	5,000	5,000	3,680	(1,320)
4410 - Gasoline	20	0	0	0	0
4430 - Miscellaneous Supplies	7,058	19,200	17,200	11,900	(5,300)
4460 - Other Materials & Supplies	16,659	11,700	14,000	14,500	500
4480 - Postage	15,386	15,000	15,600	30,000	14,400
4500 - Education and Training	7,982	59,000	13,800	12,000	(1,800)
4720 - Conference Travel & Expenses	550	7,000	0	0	0
4815 - Repair & Maint - Equipment	739	6,000	6,000	11,200	5,200
4910 - Miscellaneous Fees & Registration	35	2,600	8,400	6,650	(1,750)
8050 - Equipment (under \$5,000)	32,479	44,700	33,700	1,700	(32,000)
<b>Materials, Supplies and Services</b>	<b>838,123</b>	<b>1,188,940</b>	<b>1,085,905</b>	<b>1,074,570</b>	<b>(11,335)</b>
E 1270 - General Plant & Equip (over \$5,000)	119,082	56,000	10,000	10,000	0
<b>Equipment</b>	<b>119,082</b>	<b>56,000</b>	<b>10,000</b>	<b>10,000</b>	<b>0</b>
<b>Total CC - Customer Care</b>	<b>4,389,171</b>	<b>5,623,140</b>	<b>5,691,805</b>	<b>5,483,410</b>	<b>(208,395)</b>

**Notes**



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**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	FY2020 Actual	FY2020 Adopted Budget	FY2021 Adopted Budget	FY2022 Proposed Budget	Change
<b>PS 4110 - Salaries &amp; Wages</b>	263,886	298,700	266,300	265,600	(700)
4120 - Overtime	5,498	5,100	6,000	7,440	1,440
4130 - Miscellaneous (Payroll)	0	0	0	0	0
<b>Personnel Services</b>	<b>269,384</b>	<b>303,800</b>	<b>272,300</b>	<b>273,040</b>	<b>740</b>
4160 - Meals; Mileage & Uniform Allowances	170	240	200	200	0
4250 - Other Contractual Services	125,802	79,600	5,620	8,120	2,500
4430 - Miscellaneous Supplies	6,934	15,000	13,800	10,000	(3,800)
4460 - Other Materials & Supplies	925	0	0	0	0
4480 - Postage	649	0	0	0	0
4500 - Education and Training	7,982	50,000	12,000	0	(12,000)
4720 - Conference Travel & Expenses	550	7,000	0	0	0
4910 - Miscellaneous Fees & Registration	35	600	400	900	500
8050 - Equipment (under \$5,000)	898	0	2,700	1,000	(1,700)
<b>Materials, Supplies and Services</b>	<b>143,944</b>	<b>152,440</b>	<b>34,720</b>	<b>20,220</b>	<b>(14,500)</b>
<b>Total Customer Care Administration</b>	<b>413,328</b>	<b>456,240</b>	<b>307,020</b>	<b>293,260</b>	<b>(13,760)</b>

**Budget Highlights**

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**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 cashing 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	FY2020 Actual	FY2020 Adopted Budget	FY2021 Adopted Budget	FY2022 Proposed Budget	Change
<b>PS 4110 - Salaries &amp; Wages</b>	493,412	687,500	842,800	734,100	(108,700)
4120 - Overtime	12,287	12,000	15,000	25,000	10,000
4130 - Miscellaneous (Payroll)	45,030	57,000	30,000	30,000	0
<b>Personnel Services</b>	<b>550,729</b>	<b>756,500</b>	<b>887,800</b>	<b>789,100</b>	<b>(98,700)</b>
4160 - Meals; Mileage & Uniform Allowances	1,492	3,600	4,260	5,500	1,240
4220 - Collection Fees	491,768	850,000	876,000	872,820	(3,180)
4250 - Other Contractual Services	54,750	17,000	18,425	24,100	5,675
4267 - Printed forms	541	5,000	5,000	3,680	(1,320)
4430 - Miscellaneous Supplies	124	4,200	3,400	1,900	(1,500)
4460 - Other Materials & Supplies	415	0	1,500	2,500	1,000
4480 - Postage	14,736	15,000	15,600	30,000	14,400
4500 - Education and Training	0	6,000	1,800	0	(1,800)
4815 - Repair & Maint - Equipment	0	0	0	1,200	1,200
8050 - Equipment (under \$5,000)	204	1,200	6,000	700	(5,300)
<b>Materials, Supplies and Services</b>	<b>564,032</b>	<b>902,000</b>	<b>931,985</b>	<b>942,400</b>	<b>10,415</b>
1270 - General Plant & Equip (over \$5,000)	0	36,000	0	0	0
<b>Equipment</b>	<b>0</b>	<b>36,000</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Total Collection and Credit</b>	<b>1,114,761</b>	<b>1,694,500</b>	<b>1,819,785</b>	<b>1,731,500</b>	<b>(88,285)</b>

**Budget Highlights**

**Board of Water Supply  
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**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	FY2020 Actual	FY2020 Adopted Budget	FY2021 Adopted Budget	FY2022 Proposed Budget	Change
PS 4110 - Salaries & Wages	284,518	492,800	377,700	394,600	16,900
4120 - Overtime	13,363	10,000	20,000	20,000	0
4130 - Miscellaneous (Payroll)	0	53,000	0	0	0
<b>Personnel Services</b>	<b>297,881</b>	<b>555,800</b>	<b>397,700</b>	<b>414,600</b>	<b>16,900</b>
4160 - Meals; Mileage & Uniform Allowances	848	600	0	0	0
4250 - Other Contractual Services	528	600	600	600	0
4460 - Other Materials & Supplies	1,510	1,200	2,000	2,000	0
<b>Materials, Supplies and Services</b>	<b>2,886</b>	<b>2,400</b>	<b>2,600</b>	<b>2,600</b>	<b>0</b>
E 1270 - General Plant & Equip (over \$5,000)	102,700	0	0	0	0
<b>Equipment</b>	<b>102,700</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Total Service Engineering</b>	<b>403,467</b>	<b>558,200</b>	<b>400,300</b>	<b>417,200</b>	<b>16,900</b>

**Budget Highlights**

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**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.

A reorganization transferred this program to the Water Quality Division (see page OP-14)

Account	FY2020 Actual	FY2020 Adopted Budget	FY2021 Adopted Budget	FY2022 Proposed Budget	Change
PS 4110 - Salaries & Wages	21,495	0	0	0	0
4120 - Overtime	6,737	0	0	0	0
<b>Personnel Services</b>	<b>28,231</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
M 4160 - Meals; Mileage & Uniform Allowances	110	0	0	0	0
4250 - Other Contractual Services	28,961	0	0	0	0
4460 - Other Materials & Supplies	9,948	0	0	0	0
<b>Materials, Supplies and Services</b>	<b>39,019</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Total Cross-Connection Control</b>	<b>67,251</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

**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	FY2020 Actual	FY2020 Adopted Budget	FY2021 Adopted Budget	FY2022 Proposed Budget	Change
PS 4110 - Salaries & Wages	802,147	1,129,000	1,287,800	1,361,100	73,300
4120 - Overtime	27,570	50,000	50,000	50,000	0
4130 - Miscellaneous (Payroll)	31,834	25,000	27,000	30,000	3,000
<b>Personnel Services</b>	<b>861,551</b>	<b>1,204,000</b>	<b>1,364,800</b>	<b>1,441,100</b>	<b>76,300</b>
4160 - Meals; Mileage & Uniform Allowances	2,510	2,700	2,700	7,000	4,300
4250 - Other Contractual Services	0	0	0	600	600
4460 - Other Materials & Supplies	10	0	0	0	0
4500 - Education and Training	0	3,000	0	12,000	12,000
8050 - Equipment (under \$5,000)	916	3,000	0	0	0
<b>Materials, Supplies and Services</b>	<b>3,436</b>	<b>8,700</b>	<b>2,700</b>	<b>19,600</b>	<b>16,900</b>
<b>Total Customer Service and Records</b>	<b>864,987</b>	<b>1,212,700</b>	<b>1,367,500</b>	<b>1,460,700</b>	<b>93,200</b>

**Budget Highlights**

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**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.

Account	FY2020 Actual	FY2020 Adopted Budget	FY2021 Adopted Budget	FY2022 Proposed Budget	Change
PS 4110 - Salaries & Wages	1,211,993	1,139,100	1,254,300	1,197,000	(57,300)
4120 - Overtime	210,899	360,000	360,000	225,000	(135,000)
4130 - Miscellaneous (Payroll)	1,298	59,000	59,000	59,000	0
<b>Personnel Services</b>	<b>1,424,190</b>	<b>1,558,100</b>	<b>1,673,300</b>	<b>1,481,000</b>	<b>(192,300)</b>
4160 - Meals; Mileage & Uniform Allowances	14,893	22,400	22,400	20,000	(2,400)
4250 - Other Contractual Services	34,842	42,000	42,000	44,000	2,000
4410 - Gasoline	20	0	0	0	0
4460 - Other Materials & Supplies	3,851	10,500	10,500	10,000	(500)
4815 - Repair & Maint - Equipment	739	6,000	6,000	10,000	4,000
4910 - Miscellaneous Fees & Registration	0	2,000	8,000	5,750	(2,250)
8050 - Equipment (under \$5,000)	30,461	40,500	25,000	0	(25,000)
<b>Materials, Supplies and Services</b>	<b>84,806</b>	<b>123,400</b>	<b>113,900</b>	<b>89,750</b>	<b>(24,150)</b>
E 1270 - General Plant & Equip (over \$5,000)	16,382	20,000	10,000	10,000	0
<b>Equipment</b>	<b>16,382</b>	<b>20,000</b>	<b>10,000</b>	<b>10,000</b>	<b>0</b>
<b>Total Investigation</b>	<b>1,525,378</b>	<b>1,701,500</b>	<b>1,797,200</b>	<b>1,580,750</b>	<b>(216,450)</b>

**Budget Highlights**

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**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 and court decisions affecting real property rights and values.

Account	FY2020 Actual	FY2020 Adopted Budget	FY2021 Adopted Budget	FY2022 Proposed Budget	Change
PS 4110 - Salaries & Wages	196,184	253,100	285,300	309,600	24,300
4120 - Overtime	18,694	21,500	24,300	24,300	0
4130 - Miscellaneous (Payroll)	4,355	0	0	0	0
<b>Personnel Services</b>	<b>219,232</b>	<b>274,600</b>	<b>309,600</b>	<b>333,900</b>	<b>24,300</b>
4160 - Meals; Mileage & Uniform Allowances	30	1,000	1,000	1,000	0
4210 - Appraisals; Title Searches & Related Costs	144,698	452,500	222,500	161,000	(61,500)
4250 - Other Contractual Services	13,989	14,300	14,300	14,100	(200)
4270 - Professional Services	0	0	1,200,000	500,000	(700,000)
4430 - Miscellaneous Supplies	593	600	600	600	0
4460 - Other Materials & Supplies	16	0	0	0	0
4480 - Postage	368	200	700	450	(250)
4500 - Education and Training	200	0	0	0	0
4720 - Conference Travel & Expenses	0	400	0	0	0
4815 - Repair & Maint - Equipment	277	0	240	240	0
4910 - Miscellaneous Fees & Registration	20,308	20,500	20,400	20,400	0
5710 - Rent	0	56,000	0	0	0
8050 - Equipment (under \$5,000)	449	500	0	1,300	1,300
<b>Materials, Supplies and Services</b>	<b>180,930</b>	<b>546,000</b>	<b>1,459,740</b>	<b>699,090</b>	<b>(760,650)</b>
<b>Total Land</b>	<b>400,162</b>	<b>820,600</b>	<b>1,769,340</b>	<b>1,032,990</b>	<b>(736,350)</b>

**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	FY2020 Actual	FY2020 Adopted Budget	FY2021 Adopted Budget	FY2022 Proposed Budget	Change
<b>PS 4110 - Salaries &amp; Wages</b>	2,132,525	2,465,500	2,494,300	2,636,200	141,900
4120 - Overtime	131,709	132,079	154,545	137,422	(17,123)
4130 - Miscellaneous (Payroll)	22,132	3,617	4,047	4,829	782
<b>Personnel Services</b>	<b>2,286,366</b>	<b>2,601,196</b>	<b>2,652,892</b>	<b>2,778,451</b>	<b>125,559</b>
4160 - Meals; Mileage & Uniform Allowances	5,613	5,010	5,320	4,873	(447)
4250 - Other Contractual Services	2,720,787	2,137,459	1,355,420	1,654,000	298,580
4255 - Other Services	112,406	811,615	944,258	1,107,547	163,289
4265 - Printing	0	1,000	1,000	1,000	0
4270 - Professional Services	1,464,900	1,380,000	1,500,000	1,500,000	0
4430 - Miscellaneous Supplies	4,614	10,000	10,000	5,000	(5,000)
4460 - Other Materials & Supplies	14,077	38,000	59,200	59,000	(200)
4480 - Postage	9	480	480	480	0
4500 - Education and Training	601	24,530	12,030	12,730	700
4680 - Telephone	0	0	2,400	2,400	0
4720 - Conference Travel & Expenses	19,524	63,910	69,470	66,260	(3,210)
4808 - Repair, Maintenance and Other Services - Photovoltaic (PV)	0	0	0	480,000	480,000
4810 - Repair & Maint - Recycled Water Plt	3,118,239	3,480,527	1,889,751	991,959	(897,792)
4815 - Repair & Maint - Equipment	12,800	31,600	31,330	31,790	460
4910 - Miscellaneous Fees & Registration	10,000	11,200	11,200	11,200	0
4920 - Non-Potable Water Trtmnt Plt Costs	4,164,838	4,668,060	4,662,868	4,307,792	(355,076)
4940 - US Geol Surv (USGS) CoOp Invest	61,100	72,000	790,000	950,000	160,000
8050 - Equipment (under \$5,000)	93,370	235,000	74,000	173,000	99,000
<b>Materials, Supplies and Services</b>	<b>11,802,879</b>	<b>12,970,391</b>	<b>11,418,727</b>	<b>11,359,031</b>	<b>(59,696)</b>
1270 - General Plant & Equip (over \$5,000)	0	90,000	90,000	21,500	(68,500)
<b>Equipment</b>	<b>0</b>	<b>90,000</b>	<b>90,000</b>	<b>21,500</b>	<b>(68,500)</b>
<b>Total WR - Water Resources</b>	<b>14,089,245</b>	<b>15,661,587</b>	<b>14,161,619</b>	<b>14,158,982</b>	<b>(2,637)</b>

**Notes**



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**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	FY2020 Actual	FY2020 Adopted Budget	FY2021 Adopted Budget	FY2022 Proposed Budget	Change
<b>PS 4110 - Salaries &amp; Wages</b>	368,538	367,300	377,200	373,900	(3,300)
4120 - Overtime	0	2,000	2,000	2,000	0
4130 - Miscellaneous (Payroll)	0	0	0	0	0
<b>Personnel Services</b>	<b>368,538</b>	<b>369,300</b>	<b>379,200</b>	<b>375,900</b>	<b>(3,300)</b>
4160 - Meals; Mileage & Uniform Allowances	0	0	0	0	0
4250 - Other Contractual Services	1,877,176	1,900,000	900,000	136,500	(763,500)
4430 - Miscellaneous Supplies	4,470	10,000	10,000	5,000	(5,000)
4480 - Postage	9	0	0	0	0
4500 - Education and Training	120	0	0	0	0
4720 - Conference Travel & Expenses	3,523	6,700	7,610	7,610	0
4815 - Repair & Maint - Equipment	83	200	200	200	0
4910 - Miscellaneous Fees & Registration	10,000	10,000	10,000	10,000	0
8050 - Equipment (under \$5,000)	945	0	0	0	0
<b>Materials, Supplies and Services</b>	<b>1,896,326</b>	<b>1,926,900</b>	<b>927,810</b>	<b>159,310</b>	<b>(768,500)</b>
<b>Total Water Resources Administration</b>	<b>2,264,865</b>	<b>2,296,200</b>	<b>1,307,010</b>	<b>535,210</b>	<b>(771,800)</b>

**Budget Highlights**

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**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	FY2020 Actual	FY2020 Adopted Budget	FY2021 Adopted Budget	FY2022 Proposed Budget	Change
PS 4110 - Salaries & Wages	339,408	366,900	350,300	427,500	77,200
4120 - Overtime	2,229	7,438	8,645	8,645	0
4130 - Miscellaneous (Payroll)	0	0	0	0	0
<b>Personnel Services</b>	<b>341,637</b>	<b>374,338</b>	<b>358,945</b>	<b>436,145</b>	<b>77,200</b>
4160 - Meals; Mileage & Uniform Allowances	197	880	880	880	0
4250 - Other Contractual Services	381	960	11,920	102,000	90,080
4430 - Miscellaneous Supplies	19	0	0	0	0
4460 - Other Materials & Supplies	529	1,500	1,500	1,500	0
4480 - Postage	0	480	480	480	0
4500 - Education and Training	206	18,670	8,670	8,670	0
4720 - Conference Travel & Expenses	1,750	11,350	13,170	13,170	0
4815 - Repair & Maint - Equipment	0	7,400	7,130	7,590	460
8050 - Equipment (under \$5,000)	6,527	6,000	0	0	0
<b>Materials, Supplies and Services</b>	<b>9,609</b>	<b>47,240</b>	<b>43,750</b>	<b>134,290</b>	<b>90,540</b>
E 1270 - General Plant & Equip (over \$5,000)	0	0	0	21,500	21,500
<b>Equipment</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>21,500</b>	<b>21,500</b>
<b>Total Water System Planning</b>	<b>351,246</b>	<b>421,578</b>	<b>402,695</b>	<b>591,935</b>	<b>189,240</b>

**Budget Highlights**

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**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	FY2020 Actual	FY2020 Adopted Budget	FY2021 Adopted Budget	FY2022 Proposed Budget	Change
PS 4110 - Salaries & Wages	385,480	491,200	455,600	462,500	6,900
4120 - Overtime	83,678	41,205	41,205	41,205	0
4130 - Miscellaneous (Payroll)	0	0	0	0	0
<b>Personnel Services</b>	<b>469,158</b>	<b>532,405</b>	<b>496,805</b>	<b>503,705</b>	<b>6,900</b>
4160 - Meals; Mileage & Uniform Allowances	3,335	1,150	1,150	1,003	(147)
4250 - Other Contractual Services	3,066	0	0	900,000	900,000
4270 - Professional Services	1,464,900	1,380,000	1,500,000	1,500,000	0
4430 - Miscellaneous Supplies	38	0	0	0	0
4460 - Other Materials & Supplies	5,725	10,450	15,450	9,250	(6,200)
4500 - Education and Training	0	1,600	1,600	1,600	0
4720 - Conference Travel & Expenses	8,991	17,300	24,750	22,940	(1,810)
4808 - Repair, Maintenance and Other Services - Photovoltaic (PV)	0	0	0	480,000	480,000
8050 - Equipment (under \$5,000)	67,340	130,000	0	75,000	75,000
<b>Materials, Supplies and Services</b>	<b>1,553,397</b>	<b>1,540,500</b>	<b>1,542,950</b>	<b>2,989,793</b>	<b>1,446,843</b>
<b>Total Water Conservation</b>	<b>2,022,555</b>	<b>2,072,905</b>	<b>2,039,755</b>	<b>3,493,498</b>	<b>1,453,743</b>

**Budget Highlights**

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**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	FY2020 Actual	FY2020 Adopted Budget	FY2021 Adopted Budget	FY2022 Proposed Budget	Change
M 4250 - Other Contractual Services	92,946	144,000	168,000	240,000	72,000
4810 - Repair & Maint - Recycled Water Plt	3,118,239	3,480,527	1,889,751	991,959	(897,792)
4920 - Non-Potable Water Trtmnt Plt Costs	4,164,838	4,668,060	4,662,868	4,307,792	(355,076)
<b>Materials, Supplies and Services</b>	<b>7,376,023</b>	<b>8,292,587</b>	<b>6,720,619</b>	<b>5,539,751</b>	<b>(1,180,868)</b>
<b>Total Recycled Water</b>	<b>7,376,023</b>	<b>8,292,587</b>	<b>6,720,619</b>	<b>5,539,751</b>	<b>(1,180,868)</b>

**Budget Highlights**



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**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	FY2020 Actual	FY2020 Adopted Budget	FY2021 Adopted Budget	FY2022 Proposed Budget	Change
<b>PS 4110 - Salaries &amp; Wages</b>	308,288	489,300	526,800	527,400	600
4120 - Overtime	21,867	34,436	41,195	39,642	(1,553)
4130 - Miscellaneous (Payroll)	22,132	3,617	4,047	4,829	782
<b>Personnel Services</b>	<b>352,287</b>	<b>527,353</b>	<b>572,042</b>	<b>571,871</b>	<b>(171)</b>
4160 - Meals; Mileage & Uniform Allowances	721	1,000	1,000	1,000	0
4250 - Other Contractual Services	747,218	91,999	275,000	275,000	0
4255 - Other Services	112,406	811,615	944,258	1,107,547	163,289
4265 - Printing	0	1,000	1,000	1,000	0
4430 - Miscellaneous Supplies	9	0	0	0	0
4460 - Other Materials & Supplies	7,810	25,000	41,200	47,200	6,000
4500 - Education and Training	0	3,000	500	1,200	700
4680 - Telephone	0	0	2,400	2,400	0
4720 - Conference Travel & Expenses	400	14,250	12,500	11,800	(700)
4815 - Repair & Maint - Equipment	12,717	24,000	24,000	24,000	0
4910 - Miscellaneous Fees & Registration	0	1,200	1,200	1,200	0
4940 - US Geol Surv (USGS) CoOp Invest	61,100	72,000	790,000	950,000	160,000
8050 - Equipment (under \$5,000)	18,558	98,000	73,000	97,000	24,000
<b>Materials, Supplies and Services</b>	<b>960,940</b>	<b>1,143,064</b>	<b>2,166,058</b>	<b>2,519,347</b>	<b>353,289</b>
<b>E 1270 - General Plant &amp; Equip (over \$5,000)</b>	<b>0</b>	<b>90,000</b>	<b>90,000</b>	<b>0</b>	<b>(90,000)</b>
<b>Equipment</b>	<b>0</b>	<b>90,000</b>	<b>90,000</b>	<b>0</b>	<b>(90,000)</b>
<b>Total Hydrology-Geology</b>	<b>1,313,227</b>	<b>1,760,417</b>	<b>2,828,100</b>	<b>3,091,218</b>	<b>263,118</b>

**Budget Highlights**

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**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	FY2020 Actual	FY2020 Adopted Budget	FY2021 Adopted Budget	FY2022 Proposed Budget	Change
4110 - Salaries & Wages	308,857	308,900	337,400	379,800	42,400
4120 - Overtime	3,313	3,600	4,800	4,800	0
4130 - Miscellaneous (Payroll)	0	0	0	0	0
<b>Personnel Services</b>	<b>312,170</b>	<b>312,500</b>	<b>342,200</b>	<b>384,600</b>	<b>42,400</b>
4160 - Meals; Mileage & Uniform Allowances	0	150	300	300	0
4430 - Miscellaneous Supplies	60	0	0	0	0
4460 - Other Materials & Supplies	0	400	400	400	0
4500 - Education and Training	0	630	630	630	0
4720 - Conference Travel & Expenses	3,110	2,400	5,120	5,120	0
<b>Materials, Supplies and Services</b>	<b>3,170</b>	<b>3,580</b>	<b>6,450</b>	<b>6,450</b>	<b>0</b>
<b>Total Project Review</b>	<b>315,339</b>	<b>316,080</b>	<b>348,650</b>	<b>391,050</b>	<b>42,400</b>

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**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	FY2020 Actual	FY2020 Adopted Budget	FY2021 Adopted Budget	FY2022 Proposed Budget	Change
PS 4110 - Salaries & Wages	421,954	441,900	447,000	465,100	18,100
4120 - Overtime	20,622	43,400	56,700	41,130	(15,570)
4130 - Miscellaneous (Payroll)	0	0	0	0	0
<b>Personnel Services</b>	<b>442,576</b>	<b>485,300</b>	<b>503,700</b>	<b>506,230</b>	<b>2,530</b>
4160 - Meals; Mileage & Uniform Allowances	1,359	1,830	1,990	1,690	(300)
4250 - Other Contractual Services	0	500	500	500	0
4430 - Miscellaneous Supplies	19	0	0	0	0
4460 - Other Materials & Supplies	11	650	650	650	0
4500 - Education and Training	275	630	630	630	0
4720 - Conference Travel & Expenses	1,750	11,910	6,320	5,620	(700)
8050 - Equipment (under \$5,000)	0	1,000	1,000	1,000	0
<b>Materials, Supplies and Services</b>	<b>3,414</b>	<b>16,520</b>	<b>11,090</b>	<b>10,090</b>	<b>(1,000)</b>
<b>Total Long Range Planning</b>	<b>445,990</b>	<b>501,820</b>	<b>514,790</b>	<b>516,320</b>	<b>1,530</b>

**Budget Highlights**

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**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	FY2020 Actual	FY2020 Adopted Budget	FY2021 Adopted Budget	FY2022 Proposed Budget	Change
<b>PS 4110 - Salaries &amp; Wages</b>	11,219,530	14,164,200	14,880,700	15,438,800	558,100
4120 - Overtime	2,111,555	1,712,000	2,470,000	2,445,000	(25,000)
4130 - Miscellaneous (Payroll)	289,515	1,012,000	993,800	1,037,400	43,600
<b>Personnel Services</b>	<b>13,620,599</b>	<b>16,888,200</b>	<b>18,344,500</b>	<b>18,921,200</b>	<b>576,700</b>
1110 - Materials & Supplies (Storeroom)	2,466,016	2,000,000	1,600,000	2,200,000	600,000
1120 - Meters (Storeroom)	1,236,444	1,500,000	2,200,000	2,375,000	175,000
1125 - AMR Materials & Supplies (Storeroom)	165,406	2,000,000	500,000	300,000	(200,000)
4160 - Meals; Mileage & Uniform Allowances	116,376	129,500	131,500	136,500	5,000
4210 - Appraisals; Title Searches & Related Costs	2,016	0	0	0	0
4230 - Emergency & Contracted Road Repairs	7,939,965	8,500,000	6,800,000	8,000,000	1,200,000
4250 - Other Contractual Services	1,632,521	2,463,000	1,612,000	1,612,000	0
4265 - Printing	491	0	0	0	0
4267 - Printed forms	509	0	0	0	0
4270 - Professional Services	287,504	110,000	75,000	75,000	0
4280 - Refuse Collection & Disposal	725,001	840,000	840,000	1,200,000	360,000
4410 - Gasoline	61,153	0	0	0	0
4420 - Hauling Charges	145,480	160,000	160,000	50,000	(110,000)
4430 - Miscellaneous Supplies	32,022	1,000	10,000	10,000	0
4460 - Other Materials & Supplies	704,461	296,200	1,041,000	525,000	(516,000)
4470 - Parts and Accessories	127,402	0	0	0	0
4500 - Education and Training	37,368	45,000	45,000	45,000	0
4720 - Conference Travel & Expenses	6,952	40,000	40,000	40,000	0
4805 - Repair & Maint - Structures	4,088	60,000	60,000	60,000	0
4815 - Repair & Maint - Equipment	118,721	33,000	43,000	43,000	0
4910 - Miscellaneous Fees & Registration	15,813	0	0	0	0
4915 - Miscellaneous Financial Expenses	0	0	0	0	0
4923 - Store Materials & Expense	280,221	750,000	750,000	750,000	0
8050 - Equipment (under \$5,000)	305,688	157,850	177,815	140,825	(36,990)
<b>Materials, Supplies and Services</b>	<b>16,411,619</b>	<b>19,085,550</b>	<b>16,085,315</b>	<b>17,562,325</b>	<b>1,477,010</b>
1270 - General Plant & Equip (over \$5,000)	656,512	284,000	105,000	28,000	(77,000)
<b>Equipment</b>	<b>656,512</b>	<b>284,000</b>	<b>105,000</b>	<b>28,000</b>	<b>(77,000)</b>
<b>Total FO - Field Operations</b>	<b>30,688,730</b>	<b>36,257,750</b>	<b>34,534,815</b>	<b>36,511,525</b>	<b>1,976,710</b>

Notes



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**FO - Field Operations**

**5500 - Field Operations Administration**

**Section's Activity**

Administers the affairs of the Field Operations Division.

Account	FY2020 Actual	FY2020 Adopted Budget	FY2021 Adopted Budget	FY2022 Proposed Budget	Change
4110 - Salaries & Wages	415,315	417,700	467,200	467,300	100
4120 - Overtime	10,079	5,000	5,000	10,000	5,000
4130 - Miscellaneous (Payroll)	0	30,000	10,000	10,000	0
<b>Personnel Services</b>	<b>425,394</b>	<b>452,700</b>	<b>482,200</b>	<b>487,300</b>	<b>5,100</b>
4160 - Meals; Mileage & Uniform Allowances	620	1,000	5,000	5,000	0
4230 - Emergency & Contracted Road Repairs	6,949,784	8,500,000	6,800,000	8,000,000	1,200,000
4250 - Other Contractual Services	148,741	450,000	375,000	375,000	0
4270 - Professional Services	71,241	110,000	75,000	75,000	0
4280 - Refuse Collection & Disposal	725,001	840,000	840,000	1,200,000	360,000
4430 - Miscellaneous Supplies	2,722	0	0	0	0
4460 - Other Materials & Supplies	21	0	0	0	0
4500 - Education and Training	21,267	45,000	45,000	45,000	0
4720 - Conference Travel & Expenses	6,952	40,000	40,000	40,000	0
4915 - Miscellaneous Financial Expenses	0	0	0	0	0
8050 - Equipment (under \$5,000)	6,129	3,000	0	0	0
<b>Materials, Supplies and Services</b>	<b>7,932,477</b>	<b>9,989,000</b>	<b>8,180,000</b>	<b>9,740,000</b>	<b>1,560,000</b>
1270 - General Plant & Equip (over \$5,000)	0	0	0	0	0
<b>Equipment</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Total Field Operations Administration</b>	<b>8,357,871</b>	<b>10,441,700</b>	<b>8,662,200</b>	<b>10,227,300</b>	<b>1,565,100</b>

**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.

<b>Account</b>	<b>FY2020 Actual</b>	<b>FY2020 Adopted Budget</b>	<b>FY2021 Adopted Budget</b>	<b>FY2022 Proposed Budget</b>	<b>Change</b>
<b>PS 4110 - Salaries &amp; Wages</b>	323,951	443,900	477,200	386,800	(90,400)
4120 - Overtime	4,215	10,000	10,000	10,000	0
4130 - Miscellaneous (Payroll)	7,362	40,000	40,000	20,000	(20,000)
<b>Personnel Services</b>	<b>335,528</b>	<b>493,900</b>	<b>527,200</b>	<b>416,800</b>	<b>(110,400)</b>
4160 - Meals; Mileage & Uniform Allowances	712	3,500	3,500	3,500	0
4250 - Other Contractual Services	0	125,000	0	0	0
4460 - Other Materials & Supplies	0	10,000	10,000	10,000	0
4815 - Repair & Maint - Equipment	0	10,000	10,000	10,000	0
8050 - Equipment (under \$5,000)	18,195	28,500	0	8,250	8,250
<b>Materials, Supplies and Services</b>	<b>18,907</b>	<b>177,000</b>	<b>23,500</b>	<b>31,750</b>	<b>8,250</b>
<b>E 1270 - General Plant &amp; Equip (over \$5,000)</b>	39,090	40,000	65,000	20,000	(45,000)
<b>Equipment</b>	<b>39,090</b>	<b>40,000</b>	<b>65,000</b>	<b>20,000</b>	<b>(45,000)</b>
<b>Total Technical &amp; Operational Support Branch</b>	<b>393,525</b>	<b>710,900</b>	<b>615,700</b>	<b>468,550</b>	<b>(147,150)</b>

**Budget Highlights**

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**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	FY2020 Actual	FY2020 Adopted Budget	FY2021 Adopted Budget	FY2022 Proposed Budget	Change
4110 - Salaries & Wages	893,781	1,216,200	1,435,900	1,310,000	(125,900)
4120 - Overtime	6,681	60,000	60,000	30,000	(30,000)
4130 - Miscellaneous (Payroll)	2,412	45,000	40,000	40,000	0
<b>Personnel Services</b>	<b>902,873</b>	<b>1,321,200</b>	<b>1,535,900</b>	<b>1,380,000</b>	<b>(155,900)</b>
1120 - Meters (Storeroom)	1,236,444	1,500,000	2,200,000	2,375,000	175,000
1125 - AMR Materials & Supplies (Storeroom)	165,406	2,000,000	500,000	300,000	(200,000)
4160 - Meals; Mileage & Uniform Allowances	1,636	3,000	3,000	3,000	0
4250 - Other Contractual Services	159,194	25,000	25,000	25,000	0
4430 - Miscellaneous Supplies	0	0	0	0	0
4460 - Other Materials & Supplies	33,585	30,000	30,000	30,000	0
4910 - Miscellaneous Fees & Registration	0	0	0	0	0
8050 - Equipment (under \$5,000)	2,432	43,700	13,075	29,975	16,900
<b>Materials, Supplies and Services</b>	<b>1,598,697</b>	<b>3,601,700</b>	<b>2,771,075</b>	<b>2,762,975</b>	<b>(8,100)</b>
1270 - General Plant & Equip (over \$5,000)	0	244,000	0	0	0
<b>Equipment</b>	<b>0</b>	<b>244,000</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Total Technical &amp; Operational Support Branch</b>	<b>2,501,570</b>	<b>5,166,900</b>	<b>4,306,975</b>	<b>4,142,975</b>	<b>(164,000)</b>

**Budget Highlights**

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**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	FY2020 Actual	FY2020 Adopted Budget	FY2021 Adopted Budget	FY2022 Proposed Budget	Change
PS 4110 - Salaries & Wages	293,563	312,400	337,700	334,700	(3,000)
4120 - Overtime	6,067	6,000	5,000	5,000	0
4130 - Miscellaneous (Payroll)	419	30,000	10,000	10,000	0
<b>Personnel Services</b>	<b>300,049</b>	<b>348,400</b>	<b>352,700</b>	<b>349,700</b>	<b>(3,000)</b>
1110 - Materials & Supplies (Storeroom)	1,786,677	2,000,000	1,600,000	2,200,000	600,000
4160 - Meals; Mileage & Uniform Allowances	2,016	4,000	4,000	4,000	0
4250 - Other Contractual Services	23,325	0	0	0	0
4420 - Hauling Charges	145,480	160,000	160,000	50,000	(110,000)
4460 - Other Materials & Supplies	221,635	70,000	770,000	250,000	(520,000)
4500 - Education and Training	8	0	0	0	0
4923 - Store Materials & Expense	198,148	750,000	750,000	750,000	0
8050 - Equipment (under \$5,000)	0	1,800	0	0	0
<b>Materials, Supplies and Services</b>	<b>2,377,288</b>	<b>2,985,800</b>	<b>3,284,000</b>	<b>3,254,000</b>	<b>(30,000)</b>
<b>Total Technical &amp; Operational Support Branch</b>	<b>2,677,337</b>	<b>3,334,200</b>	<b>3,636,700</b>	<b>3,603,700</b>	<b>(33,000)</b>

**Budget Highlights**



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**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	FY2020 Actual	FY2020 Adopted Budget	FY2021 Adopted Budget	FY2022 Proposed Budget	Change
PS 4110 - Salaries & Wages	210,055	228,000	228,600	235,500	6,900
4120 - Overtime	35,365	30,000	40,000	40,000	0
4130 - Miscellaneous (Payroll)	1,325	59,600	64,800	64,800	0
<b>Personnel Services</b>	<b>246,745</b>	<b>317,600</b>	<b>333,400</b>	<b>340,300</b>	<b>6,900</b>
4160 - Meals; Mileage & Uniform Allowances	988	0	0	0	0
<b>Materials, Supplies and Services</b>	<b>988</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Total Maintenance Support Branch</b>	<b>247,733</b>	<b>317,600</b>	<b>333,400</b>	<b>340,300</b>	<b>6,900</b>

**Budget Highlights**

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**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	FY2020 Actual	FY2020 Adopted Budget	FY2021 Adopted Budget	FY2022 Proposed Budget	Change
PS 4110 - Salaries & Wages	1,583,656	1,915,700	1,993,000	1,998,700	5,700
4120 - Overtime	5,047	70,000	50,000	50,000	0
4130 - Miscellaneous (Payroll)	65,107	60,000	70,000	70,000	0
<b>Personnel Services</b>	<b>1,653,810</b>	<b>2,045,700</b>	<b>2,113,000</b>	<b>2,118,700</b>	<b>5,700</b>
4160 - Meals; Mileage & Uniform Allowances	3,368	6,000	6,000	6,000	0
4250 - Other Contractual Services	622,356	1,358,000	1,000,000	1,000,000	0
4460 - Other Materials & Supplies	53,485	30,000	40,000	40,000	0
4470 - Parts and Accessories	389	0	0	0	0
4815 - Repair & Maint - Equipment	3,921	5,000	5,000	5,000	0
8050 - Equipment (under \$5,000)	5,620	11,570	12,800	11,100	(1,700)
<b>Materials, Supplies and Services</b>	<b>689,139</b>	<b>1,410,570</b>	<b>1,063,800</b>	<b>1,062,100</b>	<b>(1,700)</b>
<b>Total Maintenance Support Branch</b>	<b>2,342,949</b>	<b>3,456,270</b>	<b>3,176,800</b>	<b>3,180,800</b>	<b>4,000</b>

**Budget Highlights**

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

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**FO - Field Operations**

**5553 - Building Custodial Section**

**Section's Activity**

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

Account	FY2020 Actual	FY2020 Adopted Budget	FY2021 Adopted Budget	FY2022 Proposed Budget	Change
PS 4110 - Salaries & Wages	409,738	434,400	446,900	454,800	7,900
4120 - Overtime	33,465	15,000	30,000	30,000	0
4130 - Miscellaneous (Payroll)	5,639	10,000	10,000	10,000	0
<b>Personnel Services</b>	<b>448,842</b>	<b>459,400</b>	<b>486,900</b>	<b>494,800</b>	<b>7,900</b>
4160 - Meals; Mileage & Uniform Allowances	4,468	2,000	0	5,000	5,000
4250 - Other Contractual Services	2,925	13,000	13,000	13,000	0
4460 - Other Materials & Supplies	10,517	8,000	8,000	12,000	4,000
4805 - Repair & Maint - Structures	0	10,000	10,000	10,000	0
8050 - Equipment (under \$5,000)	0	1,230	3,180	5,000	1,820
<b>Materials, Supplies and Services</b>	<b>17,910</b>	<b>34,230</b>	<b>34,180</b>	<b>45,000</b>	<b>10,820</b>
<b>Total Maintenance Support Branch</b>	<b>466,752</b>	<b>493,630</b>	<b>521,080</b>	<b>539,800</b>	<b>18,720</b>

**Budget Highlights**

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**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	FY2020 Actual	FY2020 Adopted Budget	FY2021 Adopted Budget	FY2022 Proposed Budget	Change
PS 4110 - Salaries & Wages	3,434,172	4,292,100	4,526,900	4,812,400	285,500
4120 - Overtime	998,258	700,000	1,000,000	1,000,000	0
4130 - Miscellaneous (Payroll)	64,639	335,800	358,400	368,000	9,600
<b>Personnel Services</b>	<b>4,497,068</b>	<b>5,327,900</b>	<b>5,885,300</b>	<b>6,180,400</b>	<b>295,100</b>
1110 - Materials & Supplies (Storeroom)	679,339	0	0	0	0
4160 - Meals; Mileage & Uniform Allowances	53,104	50,000	50,000	50,000	0
4210 - Appraisals; Title Searches & Related Costs	2,016	0	0	0	0
4230 - Emergency & Contracted Road Repairs	990,182	0	0	0	0
4250 - Other Contractual Services	658,376	477,000	177,000	177,000	0
4265 - Printing	491	0	0	0	0
4267 - Printed forms	509	0	0	0	0
4270 - Professional Services	216,263	0	0	0	0
4280 - Refuse Collection & Disposal	0	0	0	0	0
4410 - Gasoline	61,133	0	0	0	0
4430 - Miscellaneous Supplies	28,562	0	6,000	6,000	0
4460 - Other Materials & Supplies	302,155	90,000	90,000	90,000	0
4470 - Parts and Accessories	127,014	0	0	0	0
4500 - Education and Training	12,625	0	0	0	0
4805 - Repair & Maint - Structures	4,088	50,000	50,000	50,000	0
4815 - Repair & Maint - Equipment	106,923	5,000	15,000	15,000	0
4910 - Miscellaneous Fees & Registration	15,222	0	0	0	0
4923 - Store Materials & Expense	82,073	0	0	0	0
8050 - Equipment (under \$5,000)	243,813	28,400	55,600	24,950	(30,650)
<b>Materials, Supplies and Services</b>	<b>3,583,889</b>	<b>700,400</b>	<b>443,600</b>	<b>412,950</b>	<b>(30,650)</b>
1270 - General Plant & Equip (over \$5,000)	608,932	0	20,000	0	(20,000)
<b>Equipment</b>	<b>608,932</b>	<b>0</b>	<b>20,000</b>	<b>0</b>	<b>(20,000)</b>
<b>Total Metropolitan Field Services District</b>	<b>8,689,889</b>	<b>6,028,300</b>	<b>6,348,900</b>	<b>6,593,350</b>	<b>244,450</b>

**Budget Highlights**



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**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	FY2020 Actual	FY2020 Adopted Budget	FY2021 Adopted Budget	FY2022 Proposed Budget	Change
PS 4110 - Salaries & Wages	80,782	95,100	102,600	102,700	- 100
4120 - Overtime	318	1,000	0	0	0
4130 - Miscellaneous (Payroll)	0	0	0	0	0
<b>Personnel Services</b>	<b>81,100</b>	<b>96,100</b>	<b>102,600</b>	<b>102,700</b>	<b>100</b>
4160 - Meals; Mileage & Uniform Allowances	0	0	0	0	0
4250 - Other Contractual Services	1,920	0	1,000	1,000	0
4430 - Miscellaneous Supplies	704	1,000	4,000	4,000	0
4460 - Other Materials & Supplies	0	0	0	0	0
<b>Materials, Supplies and Services</b>	<b>2,624</b>	<b>1,000</b>	<b>5,000</b>	<b>5,000</b>	<b>0</b>
1270 - General Plant & Equip (over \$5,000)	0	0	20,000	0	(20,000)
<b>Equipment</b>	<b>0</b>	<b>0</b>	<b>20,000</b>	<b>0</b>	<b>(20,000)</b>
<b>Total Administration Section</b>	<b>83,725</b>	<b>97,100</b>	<b>127,600</b>	<b>107,700</b>	<b>(19,900)</b>

**Budget Highlights**

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**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	FY2020 Actual	FY2020 Adopted Budget	FY2021 Adopted Budget	FY2022 Proposed Budget	Change
<b>PS 4110 - Salaries &amp; Wages</b>	1,154,330	1,777,000	1,810,400	1,972,700	162,300
4120 - Overtime	407,124	300,000	500,000	500,000	0
4130 - Miscellaneous (Payroll)	19,486	161,600	142,600	159,400	16,800
<b>Personnel Services</b>	<b>1,580,940</b>	<b>2,238,600</b>	<b>2,453,000</b>	<b>2,632,100</b>	<b>179,100</b>
4160 - Meals; Mileage & Uniform Allowances	18,596	20,000	20,000	20,000	0
4250 - Other Contractual Services	1,830	15,000	15,000	15,000	0
4460 - Other Materials & Supplies	56,580	30,000	60,000	60,000	0
4500 - Education and Training	3,468	0	0	0	0
4815 - Repair & Maint - Equipment	6,550	5,000	5,000	5,000	0
4910 - Miscellaneous Fees & Registration	187	0	0	0	0
8050 - Equipment (under \$5,000)	12,599	19,200	55,450	18,950	(36,500)
<b>Materials, Supplies and Services</b>	<b>99,810</b>	<b>89,200</b>	<b>155,450</b>	<b>118,950</b>	<b>(36,500)</b>
<b>E 1270 - General Plant &amp; Equip (over \$5,000)</b>	<b>8,490</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Equipment</b>	<b>8,490</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Total Administration Section</b>	<b>1,689,240</b>	<b>2,327,800</b>	<b>2,608,450</b>	<b>2,751,050</b>	<b>142,600</b>

**Budget Highlights**

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**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	FY2020 Actual	FY2020 Adopted Budget	FY2021 Adopted Budget	FY2022 Proposed Budget	Change
PS 4110 - Salaries & Wages	384,008	645,300	701,400	760,500	59,100
4120 - Overtime	111,521	155,000	160,000	160,000	0
4130 - Miscellaneous (Payroll)	8,549	56,400	56,600	79,000	22,400
<b>Personnel Services</b>	<b>504,078</b>	<b>856,700</b>	<b>918,000</b>	<b>999,500</b>	<b>81,500</b>
4160 - Meals; Mileage & Uniform Allowances	4,366	11,000	11,000	11,000	0
4250 - Other Contractual Services	594	0	0	0	0
4410 - Gasoline	20	0	0	0	0
4460 - Other Materials & Supplies	9,504	8,000	12,000	12,000	0
4815 - Repair & Maint - Equipment	397	3,000	3,000	3,000	0
4910 - Miscellaneous Fees & Registration	214	0	0	0	0
8050 - Equipment (under \$5,000)	7,580	9,900	3,800	8,600	4,800
<b>Materials, Supplies and Services</b>	<b>22,675</b>	<b>31,900</b>	<b>29,800</b>	<b>34,600</b>	<b>4,800</b>
E 1270 - General Plant & Equip (over \$5,000)	0	0	0	8,000	8,000
<b>Equipment</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>8,000</b>	<b>8,000</b>
<b>Total Administration Section</b>	<b>526,753</b>	<b>888,600</b>	<b>947,800</b>	<b>1,042,100</b>	<b>94,300</b>

**Budget Highlights**

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**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	FY2020 Actual	FY2020 Adopted Budget	FY2021 Adopted Budget	FY2022 Proposed Budget	Change
PS 4110 - Salaries & Wages	761,107	776,900	796,800	836,000	39,200
4120 - Overtime	274,410	230,000	360,000	360,000	0
4130 - Miscellaneous (Payroll)	49,224	81,200	73,800	73,800	0
<b>Personnel Services</b>	<b>1,084,741</b>	<b>1,088,100</b>	<b>1,230,600</b>	<b>1,269,800</b>	<b>39,200</b>
4160 - Meals; Mileage & Uniform Allowances	13,645	17,000	17,000	17,000	0
4250 - Other Contractual Services	7,557	0	0	0	0
4460 - Other Materials & Supplies	5,269	6,200	7,000	7,000	0
4815 - Repair & Maint - Equipment	930	2,500	2,500	2,500	0
4910 - Miscellaneous Fees & Registration	82	0	0	0	0
8050 - Equipment (under \$5,000)	4,435	4,400	19,410	0	(19,410)
<b>Materials, Supplies and Services</b>	<b>31,919</b>	<b>30,100</b>	<b>45,910</b>	<b>26,500</b>	<b>(19,410)</b>
<b>Total Administration Section</b>	<b>1,116,660</b>	<b>1,118,200</b>	<b>1,276,510</b>	<b>1,296,300</b>	<b>19,790</b>

**Budget Highlights**



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**FO - Field Operations**

**5560 - Windward Section**

**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	FY2020 Actual	FY2020 Adopted Budget	FY2021 Adopted Budget	FY2022 Proposed Budget	Change
<b>PS 4110 - Salaries &amp; Wages</b>	1,275,072	1,609,500	1,556,100	1,766,700	210,600
4120 - Overtime	219,005	130,000	250,000	250,000	0
4130 - Miscellaneous (Payroll)	65,353	102,400	117,600	132,400	14,800
<b>Personnel Services</b>	<b>1,559,430</b>	<b>1,841,900</b>	<b>1,923,700</b>	<b>2,149,100</b>	<b>225,400</b>
4160 - Meals; Mileage & Uniform Allowances	12,855	12,000	12,000	12,000	0
4250 - Other Contractual Services	5,701	0	6,000	6,000	0
4430 - Miscellaneous Supplies	35	0	0	0	0
4460 - Other Materials & Supplies	11,712	14,000	14,000	14,000	0
4815 - Repair & Maint - Equipment	0	2,500	2,500	2,500	0
4910 - Miscellaneous Fees & Registration	108	0	0	0	0
8050 - Equipment (under \$5,000)	4,886	6,150	14,500	34,000	19,500
<b>Materials, Supplies and Services</b>	<b>35,296</b>	<b>34,650</b>	<b>49,000</b>	<b>68,500</b>	<b>19,500</b>
<b>E 1270 - General Plant &amp; Equip (over \$5,000)</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Equipment</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Total Administration Section</b>	<b>1,594,726</b>	<b>1,876,550</b>	<b>1,972,700</b>	<b>2,217,600</b>	<b>244,900</b>

**Budget Highlights**

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**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	FY2020 Actual	FY2020 Adopted Budget	FY2021 Adopted Budget	FY2022 Proposed Budget	Change
<b>PS 4110 - Salaries &amp; Wages</b>	4,506,290	5,573,900	4,924,500	5,335,600	411,100
4120 - Overtime	458,968	490,100	464,000	444,000	(20,000)
4130 - Miscellaneous (Payroll)	6,273	317,300	27,800	273,300	245,500
<b>Personnel Services</b>	<b>4,971,531</b>	<b>6,381,300</b>	<b>5,416,300</b>	<b>6,052,900</b>	<b>636,600</b>
4160 - Meals; Mileage & Uniform Allowances	13,272	24,300	17,200	16,900	(300)
4250 - Other Contractual Services	494,388	917,200	445,200	439,200	(6,000)
4260 - Advertising & Publication of Notices	0	5,000	3,000	3,000	0
4270 - Professional Services	0	0	1,500,000	1,500,000	0
4430 - Miscellaneous Supplies	3,368	3,000	4,000	4,000	0
4460 - Other Materials & Supplies	5,702	41,600	35,800	35,200	(600)
4500 - Education and Training	11,134	43,100	33,300	53,300	20,000
4720 - Conference Travel & Expenses	3,602	22,000	0	0	0
4815 - Repair & Maint - Equipment	4,218	5,300	5,300	5,300	0
4910 - Miscellaneous Fees & Registration	307	1,050	400	400	0
8050 - Equipment (under \$5,000)	898	6,150	0	2,000	2,000
<b>Materials, Supplies and Services</b>	<b>536,888</b>	<b>1,068,700</b>	<b>2,044,200</b>	<b>2,059,300</b>	<b>15,100</b>
<b>E 1270 - General Plant &amp; Equip (over \$5,000)</b>	<b>0</b>	<b>81,000</b>	<b>250,000</b>	<b>250,000</b>	<b>0</b>
<b>Equipment</b>	<b>0</b>	<b>81,000</b>	<b>250,000</b>	<b>250,000</b>	<b>0</b>
<b>Total CP - Capital Projects</b>	<b>5,508,419</b>	<b>7,531,000</b>	<b>7,710,500</b>	<b>8,362,200</b>	<b>651,700</b>

**Notes**

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**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	FY2020 Actual	FY2020 Adopted Budget	FY2021 Adopted Budget	FY2022 Proposed Budget	Change
PS 4110 - Salaries & Wages	469,929	568,300	531,000	547,700	16,700
4120 - Overtime	53,576	0	50,000	40,000	(10,000)
4130 - Miscellaneous (Payroll)	0	300	300	300	0
<b>Personnel Services</b>	<b>523,505</b>	<b>568,600</b>	<b>581,300</b>	<b>588,000</b>	<b>6,700</b>
4160 - Meals; Mileage & Uniform Allowances	50	0	500	500	0
4250 - Other Contractual Services	222,702	619,200	119,200	134,200	15,000
4260 - Advertising & Publication of Notices	0	5,000	3,000	3,000	0
4270 - Professional Services	0	0	1,500,000	1,500,000	0
4430 - Miscellaneous Supplies	2,517	2,500	2,500	2,500	0
4460 - Other Materials & Supplies	105	23,500	23,500	23,500	0
4500 - Education and Training	4,257	4,650	0	20,000	20,000
4720 - Conference Travel & Expenses	1,252	2,300	0	0	0
4815 - Repair & Maint - Equipment	110	1,000	1,000	1,000	0
4910 - Miscellaneous Fees & Registration	307	550	200	200	0
8050 - Equipment (under \$5,000)	898	500	0	0	0
<b>Materials, Supplies and Services</b>	<b>232,199</b>	<b>659,200</b>	<b>1,649,900</b>	<b>1,684,900</b>	<b>35,000</b>
E 1270 - General Plant & Equip (over \$5,000)	0	8,000	250,000	250,000	0
<b>Equipment</b>	<b>0</b>	<b>8,000</b>	<b>250,000</b>	<b>250,000</b>	<b>0</b>
<b>Total Administration</b>	<b>755,704</b>	<b>1,235,800</b>	<b>2,481,200</b>	<b>2,522,900</b>	<b>41,700</b>

**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	FY2020 Actual	FY2020 Adopted Budget	FY2021 Adopted Budget	FY2022 Proposed Budget	Change
<b>PS 4110 - Salaries &amp; Wages</b>	839,992	1,089,800	952,500	1,065,200	112,700
4120 - Overtime	41,283	72,000	50,000	40,000	(10,000)
4130 - Miscellaneous (Payroll)	0	4,000	0	0	0
<b>Personnel Services</b>	<b>881,276</b>	<b>1,165,800</b>	<b>1,002,500</b>	<b>1,105,200</b>	<b>102,700</b>
4160 - Meals; Mileage & Uniform Allowances	170	2,000	200	200	0
4430 - Miscellaneous Supplies	0	0	1,000	1,000	0
4460 - Other Materials & Supplies	378	2,000	0	0	0
4500 - Education and Training	2,919	7,500	4,000	4,000	0
4720 - Conference Travel & Expenses	0	3,600	0	0	0
8050 - Equipment (under \$5,000)	0	1,400	0	0	0
<b>Materials, Supplies and Services</b>	<b>3,467</b>	<b>16,500</b>	<b>5,200</b>	<b>5,200</b>	<b>0</b>
<b>Total Design &amp; Plans Review</b>	<b>884,743</b>	<b>1,182,300</b>	<b>1,007,700</b>	<b>1,110,400</b>	<b>102,700</b>

**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	FY2020 Actual	FY2020 Adopted Budget	FY2021 Adopted Budget	FY2022 Proposed Budget	Change
PS 4110 - Salaries & Wages	2,080,127	2,503,400	2,173,600	2,383,000	209,400
4120 - Overtime	344,946	413,000	350,000	350,000	0
4130 - Miscellaneous (Payroll)	0	305,000	0	250,000	250,000
<b>Personnel Services</b>	<b>2,425,073</b>	<b>3,221,400</b>	<b>2,523,600</b>	<b>2,983,000</b>	<b>459,400</b>
4160 - Meals; Mileage & Uniform Allowances	12,698	22,000	16,000	16,000	0
4250 - Other Contractual Services	23,965	30,000	30,000	30,000	0
4430 - Miscellaneous Supplies	0	500	500	500	0
4460 - Other Materials & Supplies	637	6,500	4,000	4,000	0
4500 - Education and Training	1,220	24,050	22,000	22,000	0
4720 - Conference Travel & Expenses	1,250	9,200	0	0	0
4910 - Miscellaneous Fees & Registration	0	500	200	200	0
8050 - Equipment (under \$5,000)	0	1,500	0	1,500	1,500
<b>Materials, Supplies and Services</b>	<b>39,771</b>	<b>94,250</b>	<b>72,700</b>	<b>74,200</b>	<b>1,500</b>
1270 - General Plant & Equip (over \$5,000)	0	24,000	0	0	0
<b>Equipment</b>	<b>0</b>	<b>24,000</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Total Construction</b>	<b>2,464,844</b>	<b>3,339,650</b>	<b>2,596,300</b>	<b>3,057,200</b>	<b>460,900</b>

**Budget Highlights**

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**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	FY2020 Actual	FY2020 Adopted Budget	FY2021 Adopted Budget	FY2022 Proposed Budget	Change
4110 - Salaries & Wages	592,644	732,600	674,400	684,300	9,900
4120 - Overtime	2,298	3,000	4,000	4,000	0
4130 - Miscellaneous (Payroll)	6,273	4,000	8,500	4,000	(4,500)
<b>Personnel Services</b>	<b>601,215</b>	<b>739,600</b>	<b>686,900</b>	<b>692,300</b>	<b>5,400</b>
4160 - Meals; Mileage & Uniform Allowances	10	100	100	100	0
4250 - Other Contractual Services	4,374	18,000	21,000	0	(21,000)
4430 - Miscellaneous Supplies	851	0	0	0	0
4460 - Other Materials & Supplies	604	3,600	3,600	3,000	(600)
4500 - Education and Training	1,519	4,500	5,700	5,700	0
4720 - Conference Travel & Expenses	400	2,300	0	0	0
4815 - Repair & Maint - Equipment	4,108	4,300	4,300	4,300	0
8050 - Equipment (under \$5,000)	0	1,250	0	500	500
<b>Materials, Supplies and Services</b>	<b>11,865</b>	<b>34,050</b>	<b>34,700</b>	<b>13,600</b>	<b>(21,100)</b>
1270 - General Plant & Equip (over \$5,000)	0	24,000	0	0	0
<b>Equipment</b>	<b>0</b>	<b>24,000</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Total Support</b>	<b>613,081</b>	<b>797,650</b>	<b>721,600</b>	<b>705,900</b>	<b>(15,700)</b>

**Budget Highlights**

**Board of Water Supply  
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**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	FY2020 Actual	FY2020 Adopted Budget	FY2021 Adopted Budget	FY2022 Proposed Budget	Change
<b>PS 4110 - Salaries &amp; Wages</b>	523,597	679,800	593,000	655,400	62,400
4120 - Overtime	16,865	2,100	10,000	10,000	0
4130 - Miscellaneous (Payroll)	0	4,000	19,000	19,000	0
<b>Personnel Services</b>	<b>540,462</b>	<b>685,900</b>	<b>622,000</b>	<b>684,400</b>	<b>62,400</b>
4160 - Meals; Mileage & Uniform Allowances	344	200	400	100	(300)
4250 - Other Contractual Services	243,346	250,000	275,000	275,000	0
4460 - Other Materials & Supplies	3,977	6,000	4,700	4,700	0
4500 - Education and Training	1,219	2,400	1,600	1,600	0
4720 - Conference Travel & Expenses	700	4,600	0	0	0
8050 - Equipment (under \$5,000)	0	1,500	0	0	0
<b>Materials, Supplies and Services</b>	<b>249,586</b>	<b>264,700</b>	<b>281,700</b>	<b>281,400</b>	<b>(300)</b>
1270 - General Plant & Equip (over \$5,000)	0	25,000	0	0	0
<b>Equipment</b>	<b>0</b>	<b>25,000</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Total Mechanical and Electrical</b>	<b>790,049</b>	<b>975,600</b>	<b>903,700</b>	<b>965,800</b>	<b>62,100</b>

**Budget Highlights**

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**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	FY2020 Actual	FY2020 Adopted Budget	FY2021 Adopted Budget	FY2022 Proposed Budget	Change
<b>4110 - Salaries &amp; Wages</b>	5,064,364	6,169,700	6,591,000	6,196,400	(394,600)
<b>4120 - Overtime</b>	951,266	697,000	673,000	843,000	170,000
<b>4130 - Miscellaneous (Payroll)</b>	6,678	57,800	150,000	55,800	(94,200)
<b>Personnel Services</b>	<b>6,022,308</b>	<b>6,924,500</b>	<b>7,414,000</b>	<b>7,095,200</b>	<b>(318,800)</b>
<b>4160 - Meals; Mileage &amp; Uniform Allowances</b>	43,111	40,200	39,800	40,700	900
<b>4250 - Other Contractual Services</b>	694,386	635,900	608,800	707,800	99,000
<b>4251 - Software Licenses and Maintenance</b>	23,231	19,000	33,100	33,100	0
<b>4267 - Printed forms</b>	0	300	300	300	0
<b>4270 - Professional Services</b>	1,327,202	1,200,000	500,000	1,000,000	500,000
<b>4410 - Gasoline</b>	673,844	803,200	803,200	803,200	0
<b>4430 - Miscellaneous Supplies</b>	17,573	18,400	7,600	7,600	0
<b>4440 - Motor Vehicle Parts &amp; Accessories</b>	414,818	452,000	452,000	452,000	0
<b>4460 - Other Materials &amp; Supplies</b>	2,669,915	2,743,400	2,843,000	2,816,800	(26,200)
<b>4470 - Parts and Accessories</b>	770,075	732,000	546,800	600,000	53,200
<b>4480 - Postage</b>	88	0	0	0	0
<b>4500 - Education and Training</b>	4,632	54,750	50,600	45,250	(5,350)
<b>4670 - Telemetering</b>	211,296	240,000	210,000	200,000	(10,000)
<b>4720 - Conference Travel &amp; Expenses</b>	2,480	17,200	22,100	12,200	(9,900)
<b>4805 - Repair &amp; Maint - Structures</b>	297,575	40,000	44,000	54,000	10,000
<b>4815 - Repair &amp; Maint - Equipment</b>	941,727	1,352,200	839,600	1,022,200	182,600
<b>4910 - Miscellaneous Fees &amp; Registration</b>	3,111	3,500	14,600	5,500	(9,100)
<b>8050 - Equipment (under \$5,000)</b>	582,425	661,700	289,000	382,050	93,050
<b>Materials, Supplies and Services</b>	<b>8,677,489</b>	<b>9,013,750</b>	<b>7,304,500</b>	<b>8,182,700</b>	<b>878,200</b>
<b>1270 - General Plant &amp; Equip (over \$5,000)</b>	4,565,284	6,012,800	5,729,300	3,897,700	(1,831,600)
<b>Equipment</b>	<b>4,565,284</b>	<b>6,012,800</b>	<b>5,729,300</b>	<b>3,897,700</b>	<b>(1,831,600)</b>
<b>Total WSO - Water System Operations</b>	<b>19,265,081</b>	<b>21,951,050</b>	<b>20,447,800</b>	<b>19,175,600</b>	<b>(1,272,200)</b>

**Notes**

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**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	FY2020 Actual	FY2020 Adopted Budget	FY2021 Adopted Budget	FY2022 Proposed Budget	Change
<b>PS 4110 - Salaries &amp; Wages</b>	408,411	434,300	445,700	496,100	50,400
4120 - Overtime	62,399	28,000	40,000	40,000	0
4130 - Miscellaneous (Payroll)	0	600	600	600	0
<b>Personnel Services</b>	<b>470,810</b>	<b>462,900</b>	<b>486,300</b>	<b>536,700</b>	<b>50,400</b>
4160 - Meals; Mileage & Uniform Allowances	904	800	800	900	100
4250 - Other Contractual Services	18,930	36,000	32,000	32,000	0
4251 - Software Licenses and Maintenance	21,731	15,000	0	0	0
4270 - Professional Services	1,324,723	1,200,000	500,000	1,000,000	500,000
4430 - Miscellaneous Supplies	4,236	6,000	6,000	6,000	0
4460 - Other Materials & Supplies	507	0	0	0	0
4500 - Education and Training	0	1,700	1,500	1,700	200
4720 - Conference Travel & Expenses	630	2,800	6,500	2,500	(4,000)
4815 - Repair & Maint - Equipment	0	0	0	0	0
4910 - Miscellaneous Fees & Registration	740	600	4,500	1,000	(3,500)
8050 - Equipment (under \$5,000)	1,777	0	0	0	0
<b>Materials, Supplies and Services</b>	<b>1,374,178</b>	<b>1,262,900</b>	<b>551,300</b>	<b>1,044,100</b>	<b>492,800</b>
<b>Total Operations Administration</b>	<b>1,844,988</b>	<b>1,725,800</b>	<b>1,037,600</b>	<b>1,580,800</b>	<b>543,200</b>

**Budget Highlights**



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**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	FY2020 Actual	FY2020 Adopted Budget	FY2021 Adopted Budget	FY2022 Proposed Budget	Change
PS 4110 - Salaries & Wages	272,161	256,100	308,800	193,400	(115,400)
4120 - Overtime	20,674	14,000	20,000	35,000	15,000
4130 - Miscellaneous (Payroll)	0	1,200	1,200	1,200	0
<b>Personnel Services</b>	<b>292,835</b>	<b>271,300</b>	<b>330,000</b>	<b>229,600</b>	<b>(100,400)</b>
4160 - Meals; Mileage & Uniform Allowances	1,618	700	1,000	1,800	800
4250 - Other Contractual Services	145,451	12,000	0	0	0
4251 - Software Licenses and Maintenance	0	0	28,000	28,000	0
4430 - Miscellaneous Supplies	11,858	11,000	1,000	1,000	0
4460 - Other Materials & Supplies	2,488,891	2,465,400	2,600,000	2,585,400	(14,600)
4470 - Parts and Accessories	840	0	0	0	0
4500 - Education and Training	376	4,800	5,450	3,050	(2,400)
4720 - Conference Travel & Expenses	600	5,600	3,000	900	(2,100)
4805 - Repair & Maint - Structures	296,482	36,000	40,000	50,000	10,000
4815 - Repair & Maint - Equipment	777,905	838,200	574,600	783,200	208,600
4910 - Miscellaneous Fees & Registration	1,370	0	7,200	1,600	(5,600)
8050 - Equipment (under \$5,000)	4,239	25,000	2,000	8,000	6,000
<b>Materials, Supplies and Services</b>	<b>3,729,630</b>	<b>3,398,700</b>	<b>3,262,250</b>	<b>3,462,950</b>	<b>200,700</b>
1270 - General Plant & Equip (over \$5,000)	0	40,000	3,200	0	(3,200)
<b>Equipment</b>	<b>0</b>	<b>40,000</b>	<b>3,200</b>	<b>0</b>	<b>(3,200)</b>
<b>Total Plant Operations</b>	<b>4,022,465</b>	<b>3,710,000</b>	<b>3,595,450</b>	<b>3,692,550</b>	<b>97,100</b>

**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	FY2020 Actual	FY2020 Adopted Budget	FY2021 Adopted Budget	FY2022 Proposed Budget	Change
PS 4110 - Salaries & Wages	499,171	603,100	672,300	507,600	(164,700)
4120 - Overtime	138,893	138,000	120,000	120,000	0
4130 - Miscellaneous (Payroll)	0	6,000	21,000	3,000	(18,000)
<b>Personnel Services</b>	<b>638,064</b>	<b>747,100</b>	<b>813,300</b>	<b>630,600</b>	<b>(182,700)</b>
4160 - Meals; Mileage & Uniform Allowances	7,087	7,000	7,000	7,000	0
4460 - Other Materials & Supplies	9,322	36,000	19,200	18,800	(400)
4470 - Parts and Accessories	79,702	142,000	100,600	89,000	(11,600)
4500 - Education and Training	0	4,900	4,200	3,500	(700)
4720 - Conference Travel & Expenses	0	900	1,500	900	(600)
4815 - Repair & Maint - Equipment	0	12,000	12,000	12,000	0
8050 - Equipment (under \$5,000)	0	50,000	25,500	31,500	6,000
<b>Materials, Supplies and Services</b>	<b>96,111</b>	<b>252,800</b>	<b>170,000</b>	<b>162,700</b>	<b>(7,300)</b>
E 1270 - General Plant & Equip (over \$5,000)	0	30,000	0	0	0
<b>Equipment</b>	<b>0</b>	<b>30,000</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Total District 1 Leeward West Section</b>	<b>734,175</b>	<b>1,029,900</b>	<b>983,300</b>	<b>793,300</b>	<b>(190,000)</b>

**Budget Highlights**

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**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 Mokuleia to Mililani. Granular activated carbon filtration plants are located at Waialua Wells; Haleiwa Wells; and Mililani Wells I and III.

Account	FY2020 Actual	FY2020 Adopted Budget	FY2021 Adopted Budget	FY2022 Proposed Budget	Change
4110 - Salaries & Wages	595,263	686,000	796,500	705,400	(91,100)
4120 - Overtime	307,193	136,000	120,000	200,000	80,000
4130 - Miscellaneous (Payroll)	0	6,000	7,200	6,000	(1,200)
<b>Personnel Services</b>	<b>902,456</b>	<b>828,000</b>	<b>923,700</b>	<b>911,400</b>	<b>(12,300)</b>
4160 - Meals; Mileage & Uniform Allowances	13,704	8,400	8,400	8,400	0
4460 - Other Materials & Supplies	24,280	33,300	35,600	31,300	(4,300)
4470 - Parts and Accessories	194,888	113,000	90,000	88,000	(2,000)
4500 - Education and Training	0	4,900	3,500	3,500	0
4670 - Telemetering	0	0	0	0	0
4720 - Conference Travel & Expenses	0	900	1,500	900	(600)
4815 - Repair & Maint - Equipment	0	52,000	12,000	12,000	0
8050 - Equipment (under \$5,000)	26,134	74,000	50,000	31,500	(18,500)
<b>Materials, Supplies and Services</b>	<b>259,006</b>	<b>286,500</b>	<b>201,000</b>	<b>175,600</b>	<b>(25,400)</b>
1270 - General Plant & Equip (over \$5,000)	18,174	0	0	0	0
<b>Equipment</b>	<b>18,174</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Total District 2 Central/Windward Section</b>	<b>1,179,636</b>	<b>1,114,500</b>	<b>1,124,700</b>	<b>1,087,000</b>	<b>(37,700)</b>

**Budget Highlights**

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**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	FY2020 Actual	FY2020 Adopted Budget	FY2021 Adopted Budget	FY2022 Proposed Budget	Change
<b>PS 4110 - Salaries &amp; Wages</b>	399,971	594,000	660,700	710,100	49,400
4120 - Overtime	139,365	110,000	120,000	200,000	80,000
4130 - Miscellaneous (Payroll)	3,211	6,000	6,000	6,000	0
<b>Personnel Services</b>	<b>542,547</b>	<b>710,000</b>	<b>786,700</b>	<b>916,100</b>	<b>129,400</b>
4160 - Meals; Mileage & Uniform Allowances	6,804	6,000	6,500	6,500	0
4460 - Other Materials & Supplies	16,012	18,900	23,700	18,000	(5,700)
4470 - Parts and Accessories	198,881	133,000	107,000	120,000	13,000
4500 - Education and Training	690	4,900	4,200	3,500	(700)
4720 - Conference Travel & Expenses	0	900	1,500	900	(600)
4815 - Repair & Maint - Equipment	8,801	16,000	18,000	12,000	(6,000)
8050 - Equipment (under \$5,000)	26,171	57,500	31,000	41,500	10,500
<b>Materials, Supplies and Services</b>	<b>257,359</b>	<b>237,200</b>	<b>191,900</b>	<b>202,400</b>	<b>10,500</b>
<b>E 1270 - General Plant &amp; Equip (over \$5,000)</b>	<b>22,304</b>	<b>70,000</b>	<b>10,000</b>	<b>10,000</b>	<b>0</b>
<b>Equipment</b>	<b>22,304</b>	<b>70,000</b>	<b>10,000</b>	<b>10,000</b>	<b>0</b>
<b>Total District 3 Metropolitan Section</b>	<b>822,209</b>	<b>1,017,200</b>	<b>988,600</b>	<b>1,128,500</b>	<b>139,900</b>

**Budget Highlights**

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**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	FY2020 Actual	FY2020 Adopted Budget	FY2021 Adopted Budget	FY2022 Proposed Budget	Change
<b>PS 4110 - Salaries &amp; Wages</b>	435,554	730,400	785,100	715,300	(69,800)
4120 - Overtime	49,344	75,000	65,000	60,000	(5,000)
4130 - Miscellaneous (Payroll)	3,468	6,000	6,000	5,000	(1,000)
<b>Personnel Services</b>	<b>488,365</b>	<b>811,400</b>	<b>856,100</b>	<b>780,300</b>	<b>(75,800)</b>
4160 - Meals; Mileage & Uniform Allowances	3,573	5,500	5,500	5,500	0
4460 - Other Materials & Supplies	17,675	19,300	22,500	22,300	(200)
4470 - Parts and Accessories	119,687	137,000	87,200	93,000	5,800
4500 - Education and Training	1,830	4,900	4,200	3,500	(700)
4720 - Conference Travel & Expenses	0	900	1,500	900	(600)
4815 - Repair & Maint - Equipment	5,681	12,000	2,000	12,000	10,000
8050 - Equipment (under \$5,000)	0	78,500	25,300	68,500	43,200
<b>Materials, Supplies and Services</b>	<b>148,446</b>	<b>258,100</b>	<b>148,200</b>	<b>205,700</b>	<b>57,500</b>
<b>Total District 4 Leeward East Section</b>	<b>636,811</b>	<b>1,069,500</b>	<b>1,004,300</b>	<b>986,000</b>	<b>(18,300)</b>

**Budget Highlights**



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**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	FY2020 Actual	FY2020 Adopted Budget	FY2021 Adopted Budget	FY2022 Proposed Budget	Change
PS 4110 - Salaries & Wages	556,278	720,400	709,200	691,700	(17,500)
4120 - Overtime	193,027	120,000	130,000	130,000	0
4130 - Miscellaneous (Payroll)	0	2,000	4,000	4,000	0
<b>Personnel Services</b>	<b>749,305</b>	<b>842,400</b>	<b>843,200</b>	<b>825,700</b>	<b>(17,500)</b>
4160 - Meals; Mileage & Uniform Allowances	6,696	6,000	6,000	6,000	0
4430 - Miscellaneous Supplies	0	0	0	0	0
4500 - Education and Training	0	4,900	4,900	4,900	0
4720 - Conference Travel & Expenses	0	1,800	2,000	1,800	(200)
8050 - Equipment (under \$5,000)	648	35,300	3,000	2,500	(500)
<b>Materials, Supplies and Services</b>	<b>7,344</b>	<b>48,000</b>	<b>15,900</b>	<b>15,200</b>	<b>(700)</b>
<b>Total Control Center</b>	<b>756,649</b>	<b>890,400</b>	<b>859,100</b>	<b>840,900</b>	<b>(18,200)</b>

**Budget Highlights**

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**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	FY2020 Actual	FY2020 Adopted Budget	FY2021 Adopted Budget	FY2022 Proposed Budget	Change
<b>Personnel Services</b>	<b>409,164</b>	<b>477,900</b>	<b>493,400</b>	<b>423,500</b>	<b>(69,900)</b>
4110 - Salaries & Wages	393,632	435,900	463,400	393,500	(69,900)
4120 - Overtime	15,533	36,000	24,000	24,000	0
4130 - Miscellaneous (Payroll)	0	6,000	6,000	6,000	0
<b>Materials, Supplies and Services</b>	<b>86,739</b>	<b>162,800</b>	<b>88,200</b>	<b>126,400</b>	<b>38,200</b>
4160 - Meals; Mileage & Uniform Allowances	1,614	3,000	2,000	2,000	0
4250 - Other Contractual Services	753	0	0	0	0
4270 - Professional Services	2,480	0	0	0	0
4430 - Miscellaneous Supplies	115	0	0	0	0
4460 - Other Materials & Supplies	13,644	26,000	26,000	26,000	0
4470 - Parts and Accessories	41,223	60,000	20,000	60,000	40,000
4500 - Education and Training	0	4,900	4,200	3,500	(700)
4720 - Conference Travel & Expenses	1,250	900	1,500	900	(600)
4805 - Repair & Maint - Structures	1,093	0	0	0	0
4815 - Repair & Maint - Equipment	22,463	16,000	12,000	12,000	0
8050 - Equipment (under \$5,000)	2,104	52,000	22,500	22,000	(500)
<b>Equipment</b>	<b>0</b>	<b>10,000</b>	<b>10,000</b>	<b>0</b>	<b>(10,000)</b>
<b>Total Technical Services</b>	<b>495,904</b>	<b>650,700</b>	<b>591,600</b>	<b>549,900</b>	<b>(41,700)</b>

**Budget Highlights**

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**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	FY2020 Actual	FY2020 Adopted Budget	FY2021 Adopted Budget	FY2022 Proposed Budget	Change
PS 4110 - Salaries & Wages	198,762	290,400	291,300	343,400	52,100
4120 - Overtime	3,917	24,000	16,000	16,000	0
4130 - Miscellaneous (Payroll)	0	2,000	2,000	2,000	0
<b>Personnel Services</b>	<b>202,679</b>	<b>316,400</b>	<b>309,300</b>	<b>361,400</b>	<b>52,100</b>
4160 - Meals; Mileage & Uniform Allowances	542	1,000	800	800	0
4250 - Other Contractual Services	60,386	203,000	137,000	116,000	(21,000)
4460 - Other Materials & Supplies	691	6,000	7,500	6,500	(1,000)
4470 - Parts and Accessories	83,937	72,000	72,000	80,000	8,000
4500 - Education and Training	0	2,450	2,450	2,100	(350)
4670 - Telemetry	211,296	240,000	210,000	200,000	(10,000)
4720 - Conference Travel & Expenses	0	900	1,500	900	(600)
4815 - Repair & Maint - Equipment	0	12,000	9,000	9,000	0
8050 - Equipment (under \$5,000)	509,038	271,500	113,500	153,400	39,900
<b>Materials, Supplies and Services</b>	<b>865,891</b>	<b>808,850</b>	<b>553,750</b>	<b>568,700</b>	<b>14,950</b>
1270 - General Plant & Equip (over \$5,000)	40,211	313,000	47,500	65,500	18,000
<b>Equipment</b>	<b>40,211</b>	<b>313,000</b>	<b>47,500</b>	<b>65,500</b>	<b>18,000</b>
<b>Total Telecommunications</b>	<b>1,108,780</b>	<b>1,438,250</b>	<b>910,550</b>	<b>995,600</b>	<b>85,050</b>

**Budget Highlights**

**Board of Water Supply  
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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	FY2020 Actual	FY2020 Adopted Budget	FY2021 Adopted Budget	FY2022 Proposed Budget	Change
4110 - Salaries & Wages	1,305,160	1,419,100	1,458,000	1,439,900	(18,100)
4120 - Overtime	20,923	16,000	18,000	18,000	0
4130 - Miscellaneous (Payroll)	0	22,000	96,000	22,000	(74,000)
<b>Personnel Services</b>	<b>1,326,083</b>	<b>1,457,100</b>	<b>1,572,000</b>	<b>1,479,900</b>	<b>(92,100)</b>
4160 - Meals; Mileage & Uniform Allowances	569	1,800	1,800	1,800	0
4250 - Other Contractual Services	260,092	184,900	179,800	179,800	0
4251 - Software Licenses and Maintenance	1,500	4,000	5,100	5,100	0
4267 - Printed forms	0	300	300	300	0
4410 - Gasoline	673,844	803,200	803,200	803,200	0
4430 - Miscellaneous Supplies	1,238	600	600	600	0
4440 - Motor Vehicle Parts & Accessories	414,818	452,000	452,000	452,000	0
4460 - Other Materials & Supplies	98,892	108,500	108,500	108,500	0
4470 - Parts and Accessories	50,917	70,000	70,000	70,000	0
4480 - Postage	88	0	0	0	0
4500 - Education and Training	1,736	16,400	16,000	16,000	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	60,675	90,000	90,000	90,000	0
4910 - Miscellaneous Fees & Registration	1,001	2,900	2,900	2,900	0
8050 - Equipment (under \$5,000)	12,314	17,900	16,200	23,150	6,950
<b>Materials, Supplies and Services</b>	<b>1,577,683</b>	<b>1,758,100</b>	<b>1,752,000</b>	<b>1,758,950</b>	<b>6,950</b>
1270 - General Plant & Equip (over \$5,000)	4,484,595	5,549,800	5,658,600	3,822,200	(1,836,400)
<b>Equipment</b>	<b>4,484,595</b>	<b>5,549,800</b>	<b>5,658,600</b>	<b>3,822,200</b>	<b>(1,836,400)</b>
<b>Total Automotive</b>	<b>7,388,362</b>	<b>8,765,000</b>	<b>8,982,600</b>	<b>7,061,050</b>	<b>(1,921,550)</b>

**Budget Highlights**

**Board of Water Supply  
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**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	FY2020 Actual	FY2020 Adopted Budget	FY2021 Adopted Budget	FY2022 Proposed Budget	Change
M 4250 - Other Contractual Services	208,773	200,000	260,000	380,000	120,000
4430 - Miscellaneous Supplies	126	800	0	0	0
4460 - Other Materials & Supplies	0	30,000	0	0	0
4470 - Parts and Accessories	0	5,000	0	0	0
4815 - Repair & Maint - Equipment	66,203	304,000	110,000	80,000	(30,000)
<b>Materials, Supplies and Services</b>	<b>275,102</b>	<b>539,800</b>	<b>370,000</b>	<b>460,000</b>	<b>90,000</b>
<b>Total Ocean Cooling</b>	<b>275,102</b>	<b>539,800</b>	<b>370,000</b>	<b>460,000</b>	<b>90,000</b>

**Budget Highlights**



**Board of Water Supply  
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**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.

Account	FY2020 Actual	FY2020 Adopted Budget	FY2021 Adopted Budget	FY2022 Proposed Budget	Change
<b>PS 4110 - Salaries &amp; Wages</b>	3,245,387	3,469,500	3,936,500	3,902,900	(33,600)
4120 - Overtime	177,851	199,000	169,400	153,000	(16,400)
4130 - Miscellaneous (Payroll)	0	12,000	13,000	12,000	(1,000)
<b>Personnel Services</b>	<b>3,423,238</b>	<b>3,680,500</b>	<b>4,118,900</b>	<b>4,067,900</b>	<b>(51,000)</b>
4160 - Meals; Mileage & Uniform Allowances	2,673	3,800	4,500	1,900	(2,600)
4250 - Other Contractual Services	6,049,676	7,383,065	6,410,533	6,236,035	(174,498)
4251 - Software Licenses and Maintenance	2,958,147	2,483,343	2,529,351	2,872,204	342,853
4255 - Other Services	147	0	0	0	0
4265 - Printing	3,964	5,000	0	0	0
4270 - Professional Services	0	0	0	100,000	100,000
4430 - Miscellaneous Supplies	6,899	3,900	3,700	2,700	(1,000)
4460 - Other Materials & Supplies	110,616	127,800	144,500	144,200	(300)
4470 - Parts and Accessories	41,830	12,000	15,000	14,000	(1,000)
4480 - Postage	492,074	710,000	410,100	550,100	140,000
4500 - Education and Training	67,798	135,895	50,750	26,955	(23,795)
4720 - Conference Travel & Expenses	21,351	88,460	29,700	1,700	(28,000)
4815 - Repair & Maint - Equipment	299,851	343,650	346,350	282,950	(63,400)
4910 - Miscellaneous Fees & Registration	59,782	620	126,700	127,100	400
8050 - Equipment (under \$5,000)	608,684	785,700	978,210	1,106,324	128,114
<b>Materials, Supplies and Services</b>	<b>10,723,492</b>	<b>12,083,233</b>	<b>11,049,394</b>	<b>11,466,168</b>	<b>416,774</b>
<b>E 1270 - General Plant &amp; Equip (over \$5,000)</b>	<b>542,113</b>	<b>415,000</b>	<b>335,000</b>	<b>295,000</b>	<b>(40,000)</b>
<b>Equipment</b>	<b>542,113</b>	<b>415,000</b>	<b>335,000</b>	<b>295,000</b>	<b>(40,000)</b>
<b>Total IT - Information Technology</b>	<b>14,688,842</b>	<b>16,178,733</b>	<b>15,503,294</b>	<b>15,829,068</b>	<b>325,774</b>

**Notes**

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**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	FY2020 Actual	FY2020 Adopted Budget	FY2021 Adopted Budget	FY2022 Proposed Budget	Change
<b>PS 4110 - Salaries &amp; Wages</b>	380,915	379,200	422,000	440,000	18,000
4120 - Overtime	8,949	0	1,400	4,000	2,600
4130 - Miscellaneous (Payroll)	0	0	0	0	0
<b>Personnel Services</b>	<b>389,864</b>	<b>379,200</b>	<b>423,400</b>	<b>444,000</b>	<b>20,600</b>
4160 - Meals; Mileage & Uniform Allowances	684	200	400	400	0
4250 - Other Contractual Services	77,734	275,000	25,000	0	(25,000)
4270 - Professional Services	0	0	0	100,000	100,000
4430 - Miscellaneous Supplies	10	1,200	0	0	0
4460 - Other Materials & Supplies	3,848	3,600	4,800	3,000	(1,800)
4500 - Education and Training	37,835	1,500	1,500	2,400	900
4720 - Conference Travel & Expenses	9,591	16,900	7,500	0	(7,500)
4910 - Miscellaneous Fees & Registration	59,483	620	68,200	75,100	6,900
8050 - Equipment (under \$5,000)	8,058	5,000	0	0	0
<b>Materials, Supplies and Services</b>	<b>197,244</b>	<b>304,020</b>	<b>107,400</b>	<b>180,900</b>	<b>73,500</b>
<b>Total IT Administration</b>	<b>587,108</b>	<b>683,220</b>	<b>530,800</b>	<b>624,900</b>	<b>94,100</b>

**Budget Highlights**

**Board of Water Supply  
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**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	FY2020 Actual	FY2020 Adopted Budget	FY2021 Adopted Budget	FY2022 Proposed Budget	Change
PS 4110 - Salaries & Wages	817,283	901,500	1,077,600	1,078,600	1,000
4120 - Overtime	113,914	140,000	110,000	110,000	0
4130 - Miscellaneous (Payroll)	0	12,000	12,000	12,000	0
<b>Personnel Services</b>	<b>931,197</b>	<b>1,053,500</b>	<b>1,199,600</b>	<b>1,200,600</b>	<b>1,000</b>
4160 - Meals; Mileage & Uniform Allowances	120	3,600	3,600	1,500	(2,100)
4250 - Other Contractual Services	2,585,387	3,239,000	1,050,000	1,100,984	50,984
4251 - Software Licenses and Maintenance	926,450	1,352,588	1,257,291	1,354,614	97,323
4430 - Miscellaneous Supplies	0	1,200	1,200	1,200	0
4460 - Other Materials & Supplies	318	0	0	0	0
4500 - Education and Training	0	56,800	15,500	15,580	80
4720 - Conference Travel & Expenses	4,519	27,900	7,700	0	(7,700)
4910 - Miscellaneous Fees & Registration	0	0	26,000	26,000	0
<b>Materials, Supplies and Services</b>	<b>3,516,793</b>	<b>4,681,088</b>	<b>2,361,291</b>	<b>2,499,878</b>	<b>138,587</b>
<b>Total Application Systems Development</b>	<b>4,447,991</b>	<b>5,734,588</b>	<b>3,560,891</b>	<b>3,700,478</b>	<b>139,587</b>

**Budget Highlights**

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**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 spatial database. TEP also manages and maintains the BWS hydraulic models for currency and accuracy, in conjunction with Water Resources.

Account	FY2020 Actual	FY2020 Adopted Budget	FY2021 Adopted Budget	FY2022 Proposed Budget	Change
4110 - Salaries & Wages	750,540	858,800	867,800	932,900	65,100
4120 - Overtime	2,854	4,000	4,000	4,000	0
4130 - Miscellaneous (Payroll)	0	0	0	0	0
<b>Personnel Services</b>	<b>753,395</b>	<b>862,800</b>	<b>871,800</b>	<b>936,900</b>	<b>65,100</b>
4250 - Other Contractual Services	554,251	516,000	1,106,000	810,000	(296,000)
4251 - Software Licenses and Maintenance	222,860	227,124	332,300	420,500	88,200
4255 - Other Services	147	0	0	0	0
4265 - Printing	3,964	5,000	0	0	0
4430 - Miscellaneous Supplies	20	500	500	500	0
4460 - Other Materials & Supplies	1,151	1,200	1,200	1,200	0
4480 - Postage	94	0	100	100	0
4500 - Education and Training	1,755	35,000	17,500	2,500	(15,000)
4720 - Conference Travel & Expenses	4,306	25,360	6,700	1,700	(5,000)
4815 - Repair & Maint - Equipment	1,667	3,400	4,600	4,600	0
4910 - Miscellaneous Fees & Registration	0	0	6,500	0	(6,500)
8050 - Equipment (under \$5,000)	7,993	3,300	10,500	2,000	(8,500)
<b>Materials, Supplies and Services</b>	<b>798,209</b>	<b>816,884</b>	<b>1,485,900</b>	<b>1,243,100</b>	<b>(242,800)</b>
1270 - General Plant & Equip (over \$5,000)	24,452	15,000	15,000	15,000	0
<b>Equipment</b>	<b>24,452</b>	<b>15,000</b>	<b>15,000</b>	<b>15,000</b>	<b>0</b>
<b>Total Technical Engineering Projects</b>	<b>1,576,056</b>	<b>1,694,684</b>	<b>2,372,700</b>	<b>2,195,000</b>	<b>(177,700)</b>

**Budget Highlights**

**Board of Water Supply  
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Fiscal Year 2022**

**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	FY2020 Actual	FY2020 Adopted Budget	FY2021 Adopted Budget	FY2022 Proposed Budget	Change
<b>PS 4110 - Salaries &amp; Wages</b>	1,296,647	1,330,000	1,569,100	1,451,400	(117,700)
4120 - Overtime	52,134	55,000	54,000	35,000	(19,000)
4130 - Miscellaneous (Payroll)	0	0	1,000	0	(1,000)
<b>Personnel Services</b>	<b>1,348,782</b>	<b>1,385,000</b>	<b>1,624,100</b>	<b>1,486,400</b>	<b>(137,700)</b>
4160 - Meals; Mileage & Uniform Allowances	1,869	0	500	0	(500)
4250 - Other Contractual Services	2,832,304	3,353,065	4,229,533	4,325,051	95,518
4251 - Software Licenses and Maintenance	1,808,837	903,631	939,760	1,097,090	157,330
4430 - Miscellaneous Supplies	6,869	1,000	2,000	1,000	(1,000)
4460 - Other Materials & Supplies	105,299	123,000	138,500	140,000	1,500
4470 - Parts and Accessories	41,830	12,000	15,000	14,000	(1,000)
4480 - Postage	491,980	710,000	410,000	550,000	140,000
4500 - Education and Training	28,208	42,595	16,250	6,475	(9,775)
4720 - Conference Travel & Expenses	2,935	18,300	7,800	0	(7,800)
4815 - Repair & Maint - Equipment	298,184	340,250	341,750	278,350	(63,400)
4910 - Miscellaneous Fees & Registration	299	0	26,000	26,000	0
8050 - Equipment (under \$5,000)	592,633	777,400	967,710	1,104,324	136,614
<b>Materials, Supplies and Services</b>	<b>6,211,246</b>	<b>6,281,241</b>	<b>7,094,803</b>	<b>7,542,290</b>	<b>447,487</b>
1270 - General Plant & Equip (over \$5,000)	517,660	400,000	320,000	280,000	(40,000)
<b>Equipment</b>	<b>517,660</b>	<b>400,000</b>	<b>320,000</b>	<b>280,000</b>	<b>(40,000)</b>
<b>Total Operations Support</b>	<b>8,077,688</b>	<b>8,066,241</b>	<b>9,038,903</b>	<b>9,308,690</b>	<b>269,787</b>

**Budget Highlights**



**Board of Water Supply  
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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	FY2020 Actual	FY2020 Adopted Budget	FY2021 Adopted Budget	FY2022 Proposed Budget	Change
<b>4110 - Salaries &amp; Wages</b>	2,131,334	2,529,000	2,493,200	2,301,600	(191,600)
<b>4120 - Overtime</b>	119,389	213,200	117,400	61,800	(55,600)
<b>4130 - Miscellaneous (Payroll)</b>	946	102,000	30,200	73,000	42,800
<b>Personnel Services</b>	<b>2,251,669</b>	<b>2,844,200</b>	<b>2,640,800</b>	<b>2,436,400</b>	<b>(204,400)</b>
<b>4160 - Meals; Mileage &amp; Uniform Allowances</b>	4,805	16,300	12,500	5,200	(7,300)
<b>4220 - Collection Fees</b>	0	500	0	0	0
<b>4250 - Other Contractual Services</b>	13,384	13,100	13,100	16,800	3,700
<b>4267 - Printed forms</b>	567	5,000	0	0	0
<b>4270 - Professional Services</b>	1,651,306	1,245,700	1,151,500	1,369,600	218,100
<b>4410 - Gasoline</b>	10	0	0	0	0
<b>4430 - Miscellaneous Supplies</b>	11,981	16,000	15,000	15,000	0
<b>4460 - Other Materials &amp; Supplies</b>	13,685	4,200	3,500	3,500	0
<b>4500 - Education and Training</b>	3,768	11,900	400	7,200	6,800
<b>4720 - Conference Travel &amp; Expenses</b>	4,417	7,700	800	10,900	10,100
<b>4815 - Repair &amp; Maint - Equipment</b>	3,158	6,000	9,000	9,000	0
<b>4910 - Miscellaneous Fees &amp; Registration</b>	822	600	400	1,000	600
<b>4915 - Miscellaneous Financial Expenses</b>	1,211,953	931,000	1,954,000	2,084,000	130,000
<b>8050 - Equipment (under \$5,000)</b>	3,104	2,700	9,700	700	(9,000)
<b>Materials, Supplies and Services</b>	<b>2,922,962</b>	<b>2,260,700</b>	<b>3,169,900</b>	<b>3,522,900</b>	<b>353,000</b>
<b>1270 - General Plant &amp; Equip (over \$5,000)</b>	36,300	36,000	0	0	0
<b>Equipment</b>	<b>36,300</b>	<b>36,000</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Total FIN - Finance</b>	<b>5,210,931</b>	<b>5,140,900</b>	<b>5,810,700</b>	<b>5,959,300</b>	<b>148,600</b>

Notes

**Board of Water Supply  
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**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	FY2020 Actual	FY2020 Adopted Budget	FY2021 Adopted Budget	FY2022 Proposed Budget	Change
<b>PS 4110 - Salaries &amp; Wages</b>	332,987	348,000	341,300	369,800	28,500
4120 - Overtime	164	200	500	200	(300)
4130 - Miscellaneous (Payroll)	0	0	0	0	0
<b>Personnel Services</b>	<b>333,151</b>	<b>348,200</b>	<b>341,800</b>	<b>370,000</b>	<b>28,200</b>
4160 - Meals; Mileage & Uniform Allowances	10	0	0	0	0
4250 - Other Contractual Services	1,549	5,000	5,000	5,000	0
4270 - Professional Services	514,733	208,500	258,500	336,600	78,100
4430 - Miscellaneous Supplies	10,572	15,000	15,000	15,000	0
4460 - Other Materials & Supplies	13,033	0	0	0	0
4500 - Education and Training	3,768	5,400	400	7,200	6,800
4720 - Conference Travel & Expenses	4,417	3,200	800	10,900	10,100
4815 - Repair & Maint - Equipment	1,360	1,000	1,000	1,000	0
4910 - Miscellaneous Fees & Registration	822	400	0	1,000	1,000
4915 - Miscellaneous Financial Expenses	394,844	0	0	0	0
8050 - Equipment (under \$5,000)	931	1,000	3,800	0	(3,800)
<b>Materials, Supplies and Services</b>	<b>946,038</b>	<b>239,500</b>	<b>284,500</b>	<b>376,700</b>	<b>92,200</b>
<b>E 1270 - General Plant &amp; Equip (over \$5,000)</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Equipment</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Total Finance Administration</b>	<b>1,279,189</b>	<b>587,700</b>	<b>626,300</b>	<b>746,700</b>	<b>120,400</b>

**Budget Highlights**

**Board of Water Supply  
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**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	FY2020 Actual	FY2020 Adopted Budget	FY2021 Adopted Budget	FY2022 Proposed Budget	Change
PS 4110 - Salaries & Wages	80,464	96,600	96,600	100,600	4,000
4120 - Overtime	0	2,000	2,000	1,000	(1,000)
<b>Personnel Services</b>	<b>80,464</b>	<b>98,600</b>	<b>98,600</b>	<b>101,600</b>	<b>3,000</b>
M 4270 - Professional Services	1,134,873	1,037,200	793,000	533,000	(260,000)
4460 - Other Materials & Supplies	0	200	0	0	0
4910 - Miscellaneous Fees & Registration	0	200	200	0	(200)
4915 - Miscellaneous Financial Expenses	817,109	931,000	1,954,000	2,084,000	130,000
<b>Materials, Supplies and Services</b>	<b>1,951,982</b>	<b>1,968,600</b>	<b>2,747,200</b>	<b>2,617,000</b>	<b>(130,200)</b>
<b>Total Treasury</b>	<b>2,032,446</b>	<b>2,067,200</b>	<b>2,845,800</b>	<b>2,718,600</b>	<b>(127,200)</b>

**Budget Highlights**

**Board of Water Supply  
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**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	FY2020 Actual	FY2020 Adopted Budget	FY2021 Adopted Budget	FY2022 Proposed Budget	Change
PS 4110 - Salaries & Wages	972,868	1,191,000	1,143,500	887,100	(256,400)
4120 - Overtime	111,062	200,000	100,000	50,000	(50,000)
4130 - Miscellaneous (Payroll)	0	0	2,000	2,000	0
<b>Personnel Services</b>	<b>1,083,930</b>	<b>1,391,000</b>	<b>1,245,500</b>	<b>939,100</b>	<b>(306,400)</b>
4160 - Meals; Mileage & Uniform Allowances	4,171	16,000	12,000	5,000	(7,000)
4250 - Other Contractual Services	11,836	8,100	8,100	11,800	3,700
4410 - Gasoline	10	0	0	0	0
4430 - Miscellaneous Supplies	1,410	1,000	0	0	0
4460 - Other Materials & Supplies	652	4,000	3,500	3,500	0
4500 - Education and Training	0	1,000	0	0	0
4815 - Repair & Maint - Equipment	1,798	5,000	8,000	8,000	0
8050 - Equipment (under \$5,000)	2,173	0	2,500	0	(2,500)
<b>Materials, Supplies and Services</b>	<b>22,051</b>	<b>35,100</b>	<b>34,100</b>	<b>28,300</b>	<b>(5,800)</b>
1270 - General Plant & Equip (over \$5,000)	36,300	36,000	0	0	0
<b>Equipment</b>	<b>36,300</b>	<b>36,000</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Total Rev</b>	<b>1,142,281</b>	<b>1,462,100</b>	<b>1,279,600</b>	<b>967,400</b>	<b>(312,200)</b>

**Budget Highlights**

**Board of Water Supply  
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**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	FY2020 Actual	FY2020 Adopted Budget	FY2021 Adopted Budget	FY2022 Proposed Budget	Change
4110 - Salaries & Wages	574,322	629,300	647,300	655,900	8,600
4120 - Overtime	6,931	9,000	12,900	7,900	(5,000)
4130 - Miscellaneous (Payroll)	300	102,000	28,000	71,000	43,000
<b>Personnel Services</b>	<b>581,553</b>	<b>740,300</b>	<b>688,200</b>	<b>734,800</b>	<b>46,600</b>
4160 - Meals; Mileage & Uniform Allowances	624	300	500	200	(300)
4220 - Collection Fees	0	500	0	0	0
4267 - Printed forms	567	5,000	0	0	0
4270 - Professional Services	1,700	0	0	0	0
4500 - Education and Training	0	2,500	0	0	0
4720 - Conference Travel & Expenses	0	0	0	0	0
4910 - Miscellaneous Fees & Registration	0	0	200	0	(200)
8050 - Equipment (under \$5,000)	0	700	3,100	700	(2,400)
<b>Materials, Supplies and Services</b>	<b>2,891</b>	<b>9,000</b>	<b>3,800</b>	<b>900</b>	<b>(2,900)</b>
<b>Total General Accounting</b>	<b>584,445</b>	<b>749,300</b>	<b>692,000</b>	<b>735,700</b>	<b>43,700</b>

**Budget Highlights**



**Board of Water Supply  
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**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	FY2020 Actual	FY2020 Adopted Budget	FY2021 Adopted Budget	FY2022 Proposed Budget	Change
PS 4110 - Salaries & Wages	100,956	194,400	194,800	215,500	20,700
<b>Personnel Services</b>	<b>100,956</b>	<b>194,400</b>	<b>194,800</b>	<b>215,500</b>	<b>20,700</b>
4270 - Professional Services	0	0	0	500,000	500,000
4460 - Other Materials & Supplies	0	0	0	0	0
4500 - Education and Training	0	3,000	0	0	0
4720 - Conference Travel & Expenses	0	4,500	0	0	0
8050 - Equipment (under \$5,000)	0	1,000	300	0	(300)
<b>Materials, Supplies and Services</b>	<b>0</b>	<b>8,500</b>	<b>300</b>	<b>500,000</b>	<b>499,700</b>
<b>Total Fiscal Services</b>	<b>100,956</b>	<b>202,900</b>	<b>195,100</b>	<b>715,500</b>	<b>520,400</b>

**Budget Highlights**

**Board of Water Supply  
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Fiscal Year 2022**

**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	FY2020 Actual	FY2020 Adopted Budget	FY2021 Adopted Budget	FY2022 Proposed Budget	Change
PS 4110 - Salaries & Wages	69,737	69,700	69,700	72,700	3,000
4120 - Overtime	1,232	2,000	2,000	2,700	700
4130 - Miscellaneous (Payroll)	646	0	200	0	(200)
<b>Personnel Services</b>	<b>71,615</b>	<b>71,700</b>	<b>71,900</b>	<b>75,400</b>	<b>3,500</b>
4270 - Professional Services	0	0	100,000	0	(100,000)
<b>Materials, Supplies and Services</b>	<b>0</b>	<b>0</b>	<b>100,000</b>	<b>0</b>	<b>(100,000)</b>
<b>Total Systems Accounting</b>	<b>71,615</b>	<b>71,700</b>	<b>171,900</b>	<b>75,400</b>	<b>(96,500)</b>

**Budget Highlights**

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**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	FY2020 Actual	FY2020 Adopted Budget	FY2021 Adopted Budget	FY2022 Proposed Budget	Change
DF 4610 - Electric Power - Water Distrib Fac	22,846,238	23,000,000	25,000,000	22,000,000	(3,000,000)
4620 - Electricity	1,147,159	1,200,000	1,252,000	1,100,000	(152,000)
4660 - Wastewater Service Charges	112,919	110,000	110,000	120,000	10,000
5600 - Central Admin Service Exp (CASE) Fees	3,300,000	3,300,000	3,300,000	3,300,000	0
6010 - Employee Retirement Sys (ERS)	8,673,341	9,000,000	9,000,000	11,000,000	2,000,000
6020 - FICA Contributions	2,990,941	2,900,000	3,000,000	3,200,000	200,000
6100 - Health Benefits - Employees	4,028,130	3,407,000	3,780,000	4,000,000	220,000
6200 - Health Benefits - Retirees	6,282,274	5,500,000	5,852,000	7,280,400	1,428,400
6250 - Other Post-Employment Ben (OPEB)	1,896,326	2,665,000	2,600,000	1,637,608	(962,392)
6320 - Unemployment Insurance Benefits	11,582	26,000	15,000	13,000	(2,000)
<b>Departmental Fixed Charges</b>	<b>51,288,910</b>	<b>51,108,000</b>	<b>53,909,000</b>	<b>53,651,008</b>	<b>(257,992)</b>
DS 1810 - Bonds Payable	9,910,000	9,110,000	9,450,000	12,605,000	3,155,000
1820 - Notes Payable - State Revolving Funds (SRF)	4,029,408	4,522,000	6,012,000	6,591,000	579,000
7071 - Bond Interest	8,649,252	8,750,000	8,752,000	10,392,000	1,640,000
<b>Debt Service</b>	<b>22,588,660</b>	<b>22,382,000</b>	<b>24,214,000</b>	<b>29,588,000</b>	<b>5,374,000</b>
<b>Total Fixed Charges and Debt Service</b>	<b>73,877,570</b>	<b>73,490,000</b>	<b>78,123,000</b>	<b>83,239,008</b>	<b>5,116,008</b>

**Budget Highlights**

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## **PART II**

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# **CAPITAL IMPROVEMENT PROGRAM BUDGET**



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Board of Water Supply  
Capital Improvement Program  
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Summary by Categories	Operating Fund (1)	Operating Fund - SRF Eligible (2)	Special Expendable Fund (3)	Improvement Fund (4)	Total
<b>I. Research and Development</b>	6,900,000	-	-	-	6,900,000
<b>II. Renewal and Replacement</b>					
A. Pumps	5,565,000	10,000,000	-	25,500,000	41,065,000
B. Reservoirs	100,000	-	-	-	100,000
C. Pipelines	2,950,000	-	-	58,950,000	61,900,000
D. Treatment	3,500,000	-	-	-	3,500,000
E. Facilities	13,260,000	-	-	1,650,000	14,910,000
<b>Category II - sub-total</b>	<b>25,375,000</b>	<b>10,000,000</b>	<b>-</b>	<b>86,100,000</b>	<b>121,475,000</b>
<b>III. Capacity Expansion</b>					
A. Pumps	-	-	100,000	-	100,000
B. Reservoirs	-	-	-	-	-
C. Pipelines	-	4,300,000	-	-	4,300,000
D. Treatment	-	-	800,000	-	800,000
E. Facilities	-	-	18,000,000	-	18,000,000
<b>Category III - sub-total</b>	<b>-</b>	<b>4,300,000</b>	<b>18,900,000</b>	<b>-</b>	<b>23,200,000</b>
<b>Total - Categories I - III</b>	<b>32,275,000</b>	<b>14,300,000</b>	<b>18,900,000</b>	<b>86,100,000</b>	<b>151,575,000</b>
<b>Construction Cost Index Account</b>	<b>2,421,000</b>	<b>1,430,000</b>	<b>1,700,000</b>	<b>7,250,000</b>	<b>12,801,000</b>
<b>Contract Adjustment Account</b>	<b>15,600,000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>15,600,000</b>
<b>Capital Improvement Program - Total</b>	<b>50,296,000</b>	<b>15,730,000</b>	<b>20,600,000</b>	<b>93,350,000</b>	<b>179,976,000</b>

(1) Operating Fund is defined as rate revenue or cash

(2) Operating Fund - SRF Eligible is defined as projects that are eligible for participation in the State of Hawaii, Department of Health State Revolving Fund (SRF) loan program

(3) Special Expendable Fund is a restricted fund in which water system facilities charges are deposited and the funding reserved for water system capacity expansion projects

(4) Improvement Fund is defined as the proceeds of Water System Revenue Bonds

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**I. Research and Development**

		CP	Const	Operating Fund	Operating Fund - SRF	Special Expendable Fund	Improvement Funds	Total
1.	Kunia Wells IV Exploratory Wells	Drill, case install, test pump and sample three exploratory wells (TMK 9-2-001:014 or TMK 9-4-003:010).		4,500,000	-	-	-	4,500,000
2.	Construction Management for Various BWS Construction Projects	Provide construction management and training services for selected BWS construction projects.	CP/WR	P&E	2,000,000	-	-	2,000,000
3.	Newtown Ridge and Royal Summit Reliability Improvements	Prepare Environmental Assessment and obtain Conservation District Use Permit and Public Infrastructure Map amendment.	WR	P&E	400,000	-	-	400,000
<hr/>								
<b>Total Category I - Research and Development</b>				<b>6,900,000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>6,900,000</b>

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		Operating Fund	Operating Fund - SRF	Special Expendable Fund	Improvement Funds	Total
<b>II. <u>Renewal and Replacement</u></b>						
<b>A. Pumps</b>						
<b>4. Waihee Line Booster: Remove all eight (8) booster pumps including pumps, motors, piping, valves, concrete supports, gauges, and all electrical components. Install two (2) new booster pumps and new free flow lines including piping, control valves, flow tubes, elevated steel platform, MCC, and appurtenant electrical equipment. Install new backfeed line connecting Waihee and Punaluu systems.</b>	CP-ME Const	-	-	-	5,100,000	5,100,000
<b>Replace Pumping Units</b>						

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		Operating Fund	Operating Fund - SRF	Special Expendable Fund	Improvement Funds	Total
<b>5. Makaha Shaft Tunnel Rehabilitation</b>	Replacement of all MCC, SCADA system, and all electrical components and appurtenances; replacement of pump units and associated piping, valves and appurtenances; replacement of ventilation system, plumbing system, and inclined elevator; replacement of 8-inch waterline and appurtenances; rehabilitation and expansion of the portal building; and replacement of the perimeter fencing.	-	-	-	7,500,000	7,500,000



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		Operating Fund	Operating Fund - SRF	Special Expendable Fund	Improvement Funds	Total
6. Kaamilo Booster and Kaamilo Wells Renovation	Replace Well Pump No. 1 MCC and motor starter, and relocate MCC inside the existing building. Replace telecommunication/instrumentation box and install disconnect switch at the well pump. Replace isolation valve at reservoir. Cap well No. 2. Eliminate drop ceiling in building and relocate lighting to concrete ceiling.	-	4,000,000	-	-	4,000,000
7. Waipio Heights Wells and Wells 1 Renovation	Replace two well pumps at each of two well sites; replace MCC, SCADA system, and all electrical components and appurtenances at each facility; and limited control building upgrades.	-	6,000,000			6,000,000

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		Operating Fund	Operating Fund - SRF	Special Expendable Fund	Improvement Funds	Total
<b>8. Waialae Iki Booster No. 1 Relocation</b>	Relocate booster station to the Waialae Iki 180 Reservoir site. Install 12-inch mains and appurtenances along the Waialae Iki 180 Reservoir access road; and along Laukahi Street, from the Waialae Iki 180 Reservoir access road to Kamole Street - approx. 2,000 lin. ft.	-	-	-	9,500,000	9,500,000
		CP-ME	Const			
<b>9. Kamaile Wells Renovation, Drainage Improvements and Control Building Repairs, and Kamaile Plantation Wells Sealing</b>	Replace the existing two (2) pumps, MCC, electrical wiring, chlorination system, and related work. Install drainage improvements, renovate pump building and install security fencing. Seal up to thirteen (13) unused plantation wells around Kamaile Wells Station.	-	-	-	3,400,000	3,400,000
		CP-S	Const			
<b>10. Pump Renewal and Replacement</b>	Renewal and replacement of various BWS pumps and plant facilities.	3,500,000	-	-	-	3,500,000
		CP-ME	Const			

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		Operating Fund	Operating Fund - SRF	Special Expendable Fund	Improvement Funds	Total
11. Hawaii Loa Booster No. 2 Pump and MCC Replacement	CP-ME P&E	580,000	-	-	-	580,000
Replace booster pump; replace MCC, SCADA system, and all electrical components and appurtenances; and limited control building upgrades.						
12. Waiau Booster No. 2 Electrical Upgrades	CP-ME P&E	555,000	-	-	-	555,000
Replace MCC, SCADA system, and all electrical components and appurtenances, and limited control building upgrades.						

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		Operating Fund	Operating Fund - SRF	Special Expendable Fund	Improvement Funds	Total
13. Waipio Heights Wells II Pump Replacement and Electrical Upgrades	Replace Pump Unit no. 1, replace MCC including all motor starters, repair pavement, address well seal issue at pump sole plate and concrete base for pump unit no. 2, address well insufficient height clearance issue for pump units no. 1 & 2. Investigate motor phase current imbalance for pump unit no. 2, replace corroded strut supports for pump unit no. 1 disconnect switch, replace sequence timers with PLCs, clean up wiring in wall mounted junction boxes.	510,000	-	-	-	510,000
14. Pearl City Booster No. 3 MCC Replacement	Replace MCC, SCADA system, and all electrical components and appurtenances.	320,000	-	-	-	320,000
15. Pump Renewal and Replacement	Renewal and replacement of various BWS pumps and plant facilities.	100,000	-	-	-	100,000

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			Operating Fund	Operating Fund - SRF	Special Expendable Fund	Improvement Funds	Total
<b>Pumps Total</b>			<b>5,565,000</b>	<b>10,000,000</b>	<b>-</b>	<b>25,500,000</b>	<b>41,065,000</b>
<b>B. Reservoirs</b>							
16. Wahiawa 1361 Reservoir No. 1 Demolition	CP-D	P&E	100,000	-	-	-	100,000
<b>Reservoirs Total</b>			<b>100,000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>100,000</b>



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**C. Pipelines**

		CP-D	Const	Operating Fund	Operating Fund - SRF	Special Expendable Fund	Improvement Funds	Total
<b>17. Keolu Hills Water System Improvements, Part II</b>	Install 12-inch mains and appurtenances along Keolu Drive, from Akumu Street to Nanialii Street; along Akumu Street, from Keolu Drive to Alahaki Street; along Iana Street, from Keolu Drive to FH W00766; and along Keolu Drive, from Kanapuu Drive to Akalani Loop - approx. 3,580 lin. ft. Install 8-inch mains and appurtenances along Akumu Street, from Alahaki Street to Holohele Street; along Keolu Drive, from Akalani Loop to Akahai Street; along Akahai Street, from Keolu Drive to Akamai Street; along Akaiiki Street, from Akamai Street to Akamai Place; and along Halula Place, from Akumu Street to end - approx. 4,270 lin. ft.			-	-	-	8,500,000	8,500,000

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		Operating Fund	Operating Fund - SRF	Special Expendable Fund	Improvement Funds	Total
17. Keolu Hills Water System Improvements, Part II (cont.)	Install 4-inch mains and appurtenances along Akumu Place, from Akumu Street to end; along Akiu Place, from Akumu Street to end; and along Akalei Place from Akumu Street to end - approx. 540 lin. ft.					

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		CP-D	Const	Operating Fund	Operating Fund - SRF	Special Expendable Fund	Improvement Funds	Total
<b>18. North School Street Water System Improvements</b>	Install 16-inch mains and appurtenances along North School Street, from Kamehameha IV Road to Houghtailing Street - approx. 4,510 lin. ft.			-	-	-	11,500,000	11,500,000
	Install 8-inch mains and appurtenances along Ahonui Street, from North School Street to Linapuni Street; along Hulali Place, from Ahonui Street to end; along North School Street, from Amelia Street to Leilani Street; along North School Street, from Likelike Highway to Houghtailing Street; along Amelia Street, from North School Street to Waikooe Road; along Waikooe Road, from Amelia Street to Martin Street; along Martin Street,							

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		Operating Fund	Operating Fund - SRF	Special Expendable Fund	Improvement Funds	Total
18. North School Street Water System Improvements (cont.)	from North School Street to Waikoe Road; along Kapalama Avenue, from North School Street to Peter Buck Street; and along Brigham Street, from Kapalama Avenue to Kapalama Avenue - approx. 8,330 lin. ft. Install 4-inch mains and appurtenances along Palapala Place, from Kapalama Avenue to end - approx. 205 lin. ft.					

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		Operating Fund	Operating Fund - SRF	Special Expendable Fund	Improvement Funds	Total
<b>19. Kalama Valley Water System Improvements, Part II</b>	Install 12-inch mains and appurtenances along Kealahou Street, from 661 Kealahou Street to Papalalo Place - approx. 2,305 lin. ft. Install 8-inch mains and appurtenances along Wawau Street, from Honokahua Street to Kaeleku Street; along Honokahua Street, from Kaeleku Street to end; along Kealahou Street, from Papalalo Place to end; along Nakalele Street, from Kealahou Street to Pihana Street; along Pihana Street, from 45 feet north of FH M06514 to end; and along Ipuai Street, from Kealahou Street to Honokahua Street - approx. 4,135 lin. ft.	-	-	-	11,200,000	11,200,000



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	Operating Fund	Operating Fund - SRF	Special Expendable Fund	Improvement Funds	Total
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- 19. Kalama Valley Water System Improvements, Part II (cont.)**
- Install 8- and 4-inch mains and appurtenances along Kalina Place, from Kealahou Street to end; along Maloo Place, from Honokahua Street to end; along Ohina Place, from Honokahua Street to end; along Honokahua Place, from Honokahua Street to end; along Kiaala Place, from Kealahou Street to end; and along Papalalo Place, from Kealahou Street to end - approx. 2,040 lin. ft.
  - Install service laterals and appurtenances along Kaeleku Street, from Honokahua Street to end; along Honokahua Street, from Kahului Street to Kepaniwai Street;

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	Operating Fund	Operating Fund - SRF	Special Expendable Fund	Improvement Funds	Total
19. Kalama Valley Water System Improvements, Part II (cont.)					
along Napoko Place, from Kealahou Street to end;					
along Kamaomao Place, from Kealahou Street to end; along Puumahoe Place, from Kealahou Street to end; along Muolea Place, from Kealahou Street to end;					
along Olowalu Place, from Kealahou Street to end; along Olowalu Way, from Olowalu Place to end; along Huialoha Street, from Kealahou Street to Kahului Street; along Kealahou Street, from Huialoha Street to FH no. M06314; along Inuwai Place, from Kealahou Street to end; along Kahului Street, from Kaeleku Street to FH no. M06477; along Pihana Street, from Kahului Street to FH no. M06514; along Inuwai Way, from Inuwai Place to end; and along Eaea Place, from Kealahou Street to end - approx. 199 service laterals.					

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		Operating Fund	Operating Fund - SRF	Special Expendable Fund	Improvement Funds	Total
<b>20. Palolo Water System Improvements, Part III</b>						
Install 16-inch mains and appurtenances along Palolo Avenue, from Carlos Long Street to Palolo Place; and along 10th Avenue, from Palolo Place to Makaanui Place - approx. 1,410 lin. ft.	CP-D	-	-	-	10,500,000	10,500,000
Install 12-inch mains and appurtenances along Palolo Avenue, from Kiwila Street to Palolo Place; and along 10th Avenue, from Palolo Place to Waiomao Road - approx. 7,000 lin. ft.						
Install 8-inch mains and appurtenances along Palolo Avenue, from Kauhana Street to Carlos Long Street; along Kaalani Place, from 10th Avenue to end; along Kaululoa Place, from Palolo Avenue						

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		Operating Fund	Operating Fund - SRF	Special Expendable Fund	Improvement Funds	Total
20. Palolo Water System Improvements, Part III (cont.)	along Makaanui Place, from 10th Avenue to end; along Holomua Place, from Makaanui Place to end; and along 10th Avenue Place from 10th Avenue to end – approx. 3,470 lin. ft. Install 4-inch mains and appurtenances along Palolo Place, from FH M00899 to end – approx. 30 lin. ft.					
21. Puiwa Road 12-Inch and Dowsett Avenue 8-Inch Mains	Install 12-inch mains and appurtenances along Puiwa Road, from 24 Puiwa Road to Puiwa Lane – approx. 500 lin. ft. Install 8-inch mains and appurtenances along Dowsett Avenue, from fire hydrant M03678 to Alika Avenue - approx. 1,000 lin. ft. Install 8-inch main and fire hydrant along the lane near 3964 Old Pali Road, from Old Pali Road to end - approx. 510 lin. ft.	-	-	-	2,000,000	2,000,000

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		Operating Fund	Operating Fund - SRF	Special Expendable Fund	Improvement Funds	Total
<b>22. Waiomao Homestead Road 8-Inch Main</b>	Install 8-inch mains and appurtenances along Waiomao Homestead Road, from Waiomao Road to Palolo Chlorinator - approx. 700 lin. ft.	CP-D	Const	-	1,300,000	1,300,000
<b>23. Kailua Road 8-Inch Main</b>	Install 8-inch and 2-inch mains and appurtenances along 1005 Kailua Road from Kailua Road to end - approx. 685 lin. ft.	CP	Const	-	600,000	600,000
<b>24. Water Sampling Stations at Various Locations</b>	Install water sampling stations at various locations.	CP-S	Const	500,000	-	500,000
<b>25. New Service Lateral Installations at Various Location</b>	Install new service laterals at various locations.	FO	Const	1,750,000	-	1,750,000
		FO	P&E	250,000	-	250,000
<b>26. Water Main Installation &amp; Replacement</b>	Install and replace water mains at various locations.	CP	Const	100,000	-	100,000



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		Operating Fund	Operating Fund - SRF	Special Expendable Fund	Improvement Funds	Total
<b>27. Nuuanu Pali Drive and Old Pali Road Area Water System Improvements</b>		-	-	-	750,000	750,000
	Install 12-inch mains and appurtenances along Nuuanu Pali Drive, from Pali Highway to Old Pali Road; along Old Pali Road, from Nuuanu Pali Drive to Paris Place; along Waakanaka Street, from Pali Highway (near Nuuanu Booster No. 2) to FH M07711; and along Waakanaka Street, from 3666 Waakanaka Street to Waakanaka Place - approx. 3,175 lin. ft.					
	Install 8-inch mains and appurtenances along 3742 Old Pali Road, from Old Pali Road to end; along Palimalu Drive, from Old Pali Road to end; along Nakele Street, from Nuuanu Pali Drive to end; and along Hakumele Place, from Nuuanu Pali Drive to end - approx. 1,895 lin. ft.					

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		CP-D	P&E	Operating Fund	Operating Fund - SRF	Special Expendable Fund	Improvement Funds	Total
<b>28. Thomas Square 20-Inch Main Relocation</b>	Install 20-inch mains and appurtenances along S. Hotel Street, from Kealamakai Street to Ward Avenue; along Ward Avenue, from S. Hotel Street to S. Beretania Street; along S. Beretania Street, from Ward Avenue to Victoria Street; and along Victoria Street from S. Beretania Street to Young Street - approx. 1,950 lin. ft. Install 12-inch main and appurtenances along Victoria Street from S. Beretania Street to Young Street - approx. 370 lin. ft.			-	-	-	600,000	600,000
<b>29. Water System Improvements at Various Locations</b>	Install mains and appurtenance to replace high risk water mains at various locations throughout the island.	CP-D	P&E	-	-	-	12,000,000	12,000,000
<b>30. Service Lateral Replacement at Various Locations</b>	Topographic Survey for the service lateral replacement at various locations.	CP-S	P&E	150,000	-	-	-	150,000

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			Operating Fund	Operating Fund - SRF	Special Expendable Fund	Improvement Funds	Total
<b>31. Galvanized Pipeline Replacement</b>	Replace galvanized mains at various locations.	WQ	P&E	100,000	-	-	100,000
<b>32. Water Main Installation &amp; Replacement</b>	Install and replace water mains at various locations.	CP	P&E	100,000	-	-	100,000
<b>Pipelines Total</b>			<b>2,950,000</b>	<b>-</b>	<b>-</b>	<b>58,950,000</b>	<b>61,900,000</b>
<b>D. Treatment</b>							
<b>33. GAC Interior Corrosion Control at Various Locations</b>	Perform interior corrosion control of selected BWS GAC facilities. CM services funding included for this project.	WSO	Const	3,000,000	-	-	3,000,000
			P&E	500,000	-	-	500,000
<b>Treatment Total</b>			<b>3,500,000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>3,500,000</b>

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**E. Facilities**

		CP-S	Const	Operating Fund	Operating Fund - SRF	Special Expendable Fund	Improvement Funds	Total
<b>34. Beretania IT Data Center Renovation</b>	Renovate and install workstation layout changes to the Data Center to more effectively utilize the floor space following decommissioning and removal of the server racks. Reposition/relocate equipment racks and update power and HVAC systems. Renovate women's restroom and IT breakroom.			1,500,000	-	-	-	1,500,000
<b>35. Storm Water Management Plan Improvements at Beretania Complex and Heeia Corporation Yard</b>	Install improvements to eliminate pollutant runoff from the Beretania Complex and Heeia Corporation Yard.	CP-S	Const	1,000,000	-	-	-	1,000,000
<b>36. Beretania Public Service Building 4th Floor Renovation</b>	Renovate the 4th floor to create multipurpose rooms.	CP-S	Const	1,000,000	-	-	-	1,000,000

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		CP-D	Const	Operating Fund	Operating Fund - SRF	Special Expendable Fund	Improvement Funds	Total
<b>37. Piliuka PRV Replacement</b>	Replace and relocate PRVs, along Waianae Valley Road near FH L06812, to above ground within new building. Restore power, communications and supervisory controls.			600,000	-	-	-	600,000
<b>38. Pump Station Instrumentation &amp; Controls and SCADA Upgrade</b>	Upgrade instrumentation and controls equipment at various pump stations and revamp SCADA system to provide smarter functionality. Project planning, design, and management services.	WSO	Const	-	-	-	1,400,000	1,400,000
		WSO	P&E	-	-	-	250,000	250,000
<b>39. Honouliuli Water Recycling Facility Reroofing</b>	Reroofing of the Honouliuli Water Recycling Facility Buildings.	WR	Const	260,000	-	-	-	260,000
<b>40. Facility Repair and Renovation</b>	Repair, renovation, reroofing, fencing and repainting of selected BWS facilities.	CP-S	Const	5,000,000	-	-	-	5,000,000



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		CP-S	Const	Operating Fund	Operating Fund - SRF	Special Expendable Fund	Improvement Funds	Total
<b>41. Security Improvements at Various Locations</b>	Security improvements and enhancements includes, but not limited to fencing, doors and windows, vegetation setbacks and access control systems at various BWS locations.			1,500,000	-	-	-	1,500,000
<b>42. Waimanalo Tunnel I And II and Waianae Plantation Tunnel III Renovation</b>	Install improvements to stabilize entrance to tunnels.	CP	P&E	350,000	-	-	-	350,000
<b>43. Pipeline Tunnel Inspection</b>	Inspect pipeline tunnels at various locations.	CP	P&E	200,000	-	-	-	200,000
<b>44. Facility Repair and Renovation</b>	Repair, renovation, reroofing, fencing and repainting of selected BWS facilities.	CP-S	P&E	1,500,000	-	-	-	1,500,000
<b>45. Monitoring Well Assessment and Repair</b>	Provide well condition assessment and associated repair services for monitor wells.	WR	P&E	50,000	-	-	-	50,000

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		Operating Fund	P&E	Operating Fund - SRF	Special Expendable Fund	Improvement Funds	Total
46. Professional Services Obtain services of archaeologists, botanists, environmental engineers, water quality labs, planners, government agencies and others.	CP	300,000		-	-	-	300,000

Facilities Total		13,260,000	-	-	1,650,000	14,910,000
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Total Category II -  
Renewal and  
Replacement

		25,375,000	10,000,000	-	86,100,000	121,475,000
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**III. Capacity Expansion**

**A. Pumps**

47. Pacific Heights Booster No. 1			Land	-	100,000	-	100,000
Land acquisition for new Pacific Heights Booster No. 1 to eliminate cross-country water main between Jack Lane and the Pacific Heights 578 Reservoir.							

Pumps Total		-	-	100,000	-	100,000
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			Operating Fund	Operating Fund - SRF	Special Expendable Fund	Improvement Funds	Total
<b>B. Reservoirs</b>							
	<b>Reservoirs Total</b>		-	-	-	-	-
<b>C. Pipelines</b>							
48. Honouliuli WWTP Expansion 16-Inch Main	Install 16-inch mains and appurtenances along Roosevelt Avenue from Renton Road to Geiger Road and Kamakana Street - approx. 4,500 lin. ft.	WR Const	-	4,300,000			4,300,000
	<b>Pipelines Total</b>		-	4,300,000	-	-	4,300,000
<b>D. Treatment</b>							
49. Mililani Wells II GAC Installation	Install two (2) new GAC vessels, backwash tank system, including pump and filter setup, chlorinator infrastructure and piping.	CP P&E	-	-	800,000	-	800,000
	<b>Treatment Total</b>		-	-	800,000	-	800,000

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**E. Facilities**

		WR	Const	Operating Fund	Operating Fund - SRF	Special Expendable Fund	Improvement Funds	Total
<b>50. Kalaeloa Sea Water Desalination Facility</b>	Design-Build-Operate-Maintain (DBOM) contract for a 1.7 MGD desalination facility with limited oversizing for future expansion. Install 16-inch transmission main along the project boundary from desalination facility to Olai Street, along Olai Street from end to Kalaeloa Boulevard, along Kalaeloa Boulevard from Olai Street to the existing 16-inch main near the Northern end of TMK 9-1-031:022-approx. 4,800 lin. ft. Provide project management services to monitor DBOM progress, plans review and RFI response.			-	-	17,000,000	-	17,000,000
		WR	P&E	-	-	1,000,000	-	1,000,000
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<b>Facilities Total</b>				-	-	18,000,000	-	18,000,000
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<b>Total Category III - Capacity Expansion</b>								
		-	-	4,300,000	18,900,000	-	-	23,200,000

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	Operating Fund	Operating Fund - SRF	Special Expendable Fund	Improvement Funds	Total
<b>Total Categories I - III</b>	<b>32,275,000</b>	<b>14,300,000</b>	<b>18,900,000</b>	<b>86,100,000</b>	<b>151,575,000</b>
<b>Construction Cost Index Adjustment</b>	<b>2,421,000</b>	<b>1,430,000</b>	<b>1,700,000</b>	<b>7,250,000</b>	<b>12,801,000</b>
<b>Contract Adjustment Account</b>	<b>15,600,000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>15,600,000</b>
<b>FY 2022 Capital Improvement Program Total</b>	<b>50,296,000</b>	<b>15,730,000</b>	<b>20,600,000</b>	<b>93,350,000</b>	<b>179,976,000</b>