

BOARD OF WATER SUPPLY

CITY AND COUNTY OF HONOLULU
630 SOUTH BERETANIA STREET
HONOLULU, HI 96843
www.boardofwatersupply.com



May 18, 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 Public Hearing on Monday, May 24, 2021, at 2:00 p.m. in the Boardroom, Public Service Building, 630 South Beretania Street, Honolulu, Hawaii. The Regular Meeting of the Board of Water Supply will follow the Public Hearing.

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 or faxed to (808) 748-5079. Testimony is due by Monday, May 24, 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.
- Mail written testimony to Board of Water Supply, 630 S. Beretania St., Honolulu, HI 96843. Testimony is due by Monday, May 24, 2021, at noon.
- On-line testimony will be accepted at boardofwatersupply.com/testimony. Fill out the testimony form. Due by Monday, May 24, 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.

VIEWING THE MEETING

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(1) the BWS website: 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 **at least three business days prior to the meeting date.**

The agenda for the May 24, 2021, Regular Meeting of the Board of Water Supply is as follows:

PUBLIC HEARING

1. Proposed Fiscal Year 2021-2022 Operating and Capital Improvement Program Budget for the Board of Water Supply

REGULAR MEETING

ITEMS REQUIRING BOARD ACTION

1. Approval of the Minutes of the Regular Meeting Held on April 26, 2021
2. Approval of the Minutes of the Budget Workshop Meeting held on May 10, 2021
3. Adoption of Resolution No. 923, 2021, Adopting the Operating and Capital Improvement Program Budget for the Fiscal Year 2021-2022 and Appropriating Funds Therefor
4. Adoption of Resolution No. 924, 2021, Reaffirming the Protection of Oahu's Groundwater Aquifers from Fuel Contamination
5. To Determine the Role of the Board in Staffing and Succession Planning and Creation of a Permitted Interaction Group Pursuant to Section HRS §92-2.5(b)

ITEMS FOR INFORMATION

1. Status Update of Groundwater Levels at All Index Stations
2. Water Main Repair Report for April 2021

EXECUTIVE SESSION

1. Approval of the Minutes of the Executive Session Held on April 26, 2021
2. To Consult with the Board's Attorney on Questions and Issues Pertaining to the Board's Powers, Duties, Privileges, Immunities, and Liabilities pertaining to the Proposed Interim Instream Flow Standards for He'eia Stream [HRS §92-5(a)(4)]
3. To Consult with the Board's Attorney on Questions and Issues Pertaining to the Board's Powers, Duties, Privileges, Immunities, and Liabilities pertaining to the joint funding agreement with U.S. Geological Survey to conduct an analysis of the effects of groundwater withdrawals on streamflow, Waihee and Kaha'iuu Streams, Kahaluu Hydrologic Unit, Oahu [HRS §92-5(a)(4)]

MINUTES

THE REGULAR MEETING OF THE BOARD OF WATER SUPPLY

May 24, 2021

The Public Hearing was held in the Board Room of the Public Service Building at 630 South Beretania Street, Honolulu, Hawaii, to Consider (1) Proposed Fiscal Year 2020-2021 Operating and Capital Improvement Program Budget for the Board of Water Supply.

Present: Bryan P. Andaya, Chair via WebEx
Kapua Sproat, Vice Chair via WebEx
Max J. Sword, Board Member
Ray C. Soon, Board Member
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 Vimeo
Garon Hamasaki, Civil Engineer IV,
Customer Care Division via WebEx
Kathleen Elliott-Pahinui, Information Officer,
Communications Office via WebEx
Raelynn Nakabayashi, Executive Assistant I,
Executive Support Office
Micheal Fuke, Program Administrator,
Field Operations Division via WebEx
Jason Nikaido, Assistant Program Administrator,
Field Operations Division
Joseph Cooper, Waterworks Controller,
Finance Division via Vimeo
Leanne Matsumoto, Assistant Waterworks Controller,
Finance Division via WebEx
Michele Thomas, Executive Assistant I,
Human Resources Office via Vimeo
Ronald Wada, Assistant Program Administrator,
Information Technology Division
via WebEx
Michael Matsuo, Land Administrator, Land Division
via WebEx

Erwin Kawata, Program Administrator,
Water Quality Division
Barry Usagawa, Program Administrator,
Water Resources Division
Kevin Ihu, Program Administrator,
Water System Operations Division
via WebEx
Kathy Mitchell, Administrative Services Officer
via WebEx
Deanna Thyssen, Managers Secretary via WebEx
Joy Cruz-Achiu, Board Secretary
Steven Norstrom, Information Specialist II,
Communications Office
Stella Bernardo, Information Specialist II,
Communications Office via WebEx
Blaine Fergerstrom, Information Specialist II,
Communications Office via WebEx

Others Present: Jeff Lau, Deputy Corporation Counsel
via Conference Call
Jessica Wong, Deputy Corporation Counsel
via WebEx Call

PUBLIC HEARING

At 2:01 PM, Chair Bryan Andaya called to order the Public Hearing. Chair Andaya announced that a Public Hearing will be held first. After the Public Hearing, the Regular Meeting of the Honolulu Board of Water Supply (BWS) will commence.

Chair Bryan Andaya announced he was joining the Public Hearing and Regular Meeting via WebEx with other Board Members and requested a roll call. Chair Andaya asked each Board Member to respond verbally when their names were called. Joining WebEx Vice Chair Kapua Sproat, aye; Board Member Na'alehu Anthony, aye; Board Member Jade Butay, aye; Board Member Roger Babcock, Jr., aye. In the Board Room Board Member Ray Soon, 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-Achiu, and Information Specialist Steven Norstrom. Joining from the City and County Corporation Counsel were Deputy Jeff Lau and Deputy Jessica Wong via WebEx Call.

Chair Andaya requested all attendees calling in or video conferencing to please mute their microphone when not speaking to the audience. When intending to speak, unmute their microphone and identify themselves before speaking.

Chair Andaya stated under the Nineteenth Supplementary Proclamation issued by Governor David Ige on April 9, 2021, to follow public participation in a matter consistent with COVID-19 practices. The following procedures are in effect for the meeting:

Board Members are participating from remote locations via WebEx.

Chair Andaya shared the various ways to submit testimony: Written testimony may be submitted by email to 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, which were all due on Monday, May 24, 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.

Chair Andaya also announced the Board Meeting is broadcasted live on the BWS website at www.boardofwatersupply.com/live.

At 2:08 PM Chair Andaya announced Board Member Max Sword joined the Public Hearing and Regular Meeting in-person at the Board of Water Supply (BWS) Board Room.

Chair Andaya reported that an informational Budget Workshop Meeting was held on May 10, 2021. The workshop outlined the Department's goals and objectives and the proposed Operating and the Capital Improvement Program (CIP) Budget for the Fiscal Year 2021-2022.

Chair Andaya introduced Manager and Chief Engineer Ernest Lau to give a brief overview of the budget presented today.

Manager Lau thanked Chair Andaya and introduced Ms. Raelynn Nakabayashi, Executive Assistant, Executive Support Office, to provide a short presentation on the overall budget. Following Ms. Nakabayashi will be Mr. Jason Takaki, Program Administrator, Capital Projects Division, to present a summary of the CIP Budget.

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

Ms. Nakabayashi presented 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 indicated that the Operating Budget increase is consistent with the updated Long Range Financial Plan (LRFP) 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 collectively created a large CIP Budget in Fiscal Year 2021 by \$31.46 million and included additional funding for the Kalawahine 180 Reservoir and pipeline projects, the Lanikai Water System Improvement Project, and the new Manana Corporation Yard Laboratory and Control Center Expansion Project. Consistent with the LRFP the BWS intends to issue bonds in the second half of Fiscal Year 2022 in the anticipated amount of \$93.4 million.

Ms. Nakabayashi explained the growth of the Operating and CIP Budgets from Fiscal Year 2018 through Fiscal Year 2021. The CIP Budgets have steadily increased as the BWS work to achieve the Water Master Plan (WMP) target of replacing 21 miles of pipeline per year.

Ms. Nakabayashi presented the operating fund revenue and expenditure comparisons for Fiscal Year 2021 and Fiscal Year 2022. Total revenues for Fiscal Year 2022 are projected to increase by \$3.8 million or \$3.5%.

Ms. Nakabayashi compared the updated LRFP forecast for Fiscal Year 2022 of \$218.6 million and the proposed Fiscal Year 2022 budget of \$215.2, which is \$3.4 million or 1.6% below the update LRFP.

Ms. Nakabayashi indicated the Proposed Operating Budget is based on Total Operating Fund Resources of \$288.6 million, consisting of revenues, fund balance – also called carryover, and lapses/adjustments from prior years. Since the adoption of the current rate schedule and LRFP, the BWS has worked to maintain only enough financial reserves as required by the BWS financial policies, by further reducing the funds' carryover each year.

Ms. Nakabayashi indicated the Total Operating Expenditures are \$281.2 million, made up of materials, supplies, and services, Operating Funds use to fund CIP projects, fixed charges, personnel services, debt services, and equipment.

Ms. Nakabayashi reported the following highlights of the Operating Budget: No net increase full-time equivalent employee (FTE) count; it remains below the authorized 741. There is an increase of \$424,000 in salaries or 0.8% which is reflective of the negotiated collective bargaining salary adjustments thru Fiscal Year 2021. Materials, service, and supplies increased by \$3.7 million or 5.2% due to increases in our Professional Services Budget covering projects such as rate consulting, lead service line inventory and water testing, environmental investigations, and the Beretania properties redevelopment project. Materials, service, and supplies also increased due

to increased costs for emergency road repairs, other contractual services for increased wireless security at the BWS reservoirs, photovoltaic (PV) System maintenance, and increased tipping fees for refuse collection and disposal. These increases were offset by a reduction in the budget for Recycled Water projects completed in prior years. Equipment decreased by \$1.9 million or 30.1%. Debt service increased by \$5.4 million or 22.2% due to the increase in principal and interest payments for bonds payable and SRF payments. Fixed charges decreased by \$258,000 or 0.5% due to the electricity cost savings realized with the implementation of the PV systems and decrease in Employee Union Trust Fund (EUTF) and Other Post-Employment Benefits (OPEB).

Ms. Nakabayashi discussed the breakdown of the revenue projections for Fiscal Year 2022. Metered sales of potable, non-potable, and recycled water increased by \$3.3 million or 1.4% due to the rate adjustment scheduled for Fiscal Year 2022. Other revenues increased by \$410,000 or 4.7% due to an increase in interest income.

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 fewer resources to appropriate in 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.

Manager Lau thanked Ms. Nakabayashi and introduced Mr. Jason Takaki, to present the Capital Improvement Program (CIP) portion of the proposed budget for Fiscal Year 2021-2022.

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 and includes projects from all Divisions and staff offices. The proposed CIP budget supports the Department's 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. The CIP carefully balanced the needs of the systems in providing reliable water service with cost-effective management of assets and funding.

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 totals \$179,976,000.

Mr. Takaki shared the different project categories and the projects included in each category. The CIP is comprised of three project categories: 1) Research and Development, 2) Renewal and Replacement, and 3) Capacity Expansion.

Category 1 Research and Development, is budgeted for \$6.9 million, which includes Kunia Wells IV Exploratory Wells, construction management for various BWS construction projects, and a study of water system improvements to ensure the reliability of water delivery for Newtown Ridge and Royal Summit reliability.

The largest category in the CIP, Category 2, Renewal and Replacement is budgeted for \$121.5 million and addresses the needs of an aging infrastructure. This category includes the relocation of Waialae Iki Booster No. 1 and replacing pumping units at Waihee Line Booster; renovation of

Kaamilo Booster, Kaamilo Wells, Waipio Heights Wells, and Wells I; and renovation, drainage improvements, and well sealing at Kamaile Wells; and rehabilitation of Makaha Shaft Tunnel.

Category 2 also includes main replacement as the BWS work toward a target goal of 21 miles of main replacement per year in accordance with the Water Master Plan. Construction projects to replace 10 miles of main are included in FY22 and are located in Kailua, Kalihi, Nuuanu, Palolo, and Hawaii Kai. Another 10 miles of main replacement design projects in various locations are also included for future construction.

Other projects in this category include corrosion repairs and controls for Granular Activated Carbon (GAC) water treatment facilities, a plan and project to address a backlog of new water service requests with new service lateral installations, renovations to the Beretania Information Technology (IT) Data Center, and facility upgrades and security improvements at all BWS facilities.

The third category, Capacity Expansion is budgeted for \$23.2 million, which includes installing a new recycled water transmission main from the Honouliuli Water Recycling Facility, installation of GAC water treatment at Mililani Wells II, and the initiation for a seawater desalination facility at Kalaeloa.

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

Board Member Jade Butay asked for more details on the design, build, finance, operate, and maintain CIP project.

Manager Lau responded that the desalination facility at Kalaeloa is a design, build, operate, and maintain project delivery approach on 20 acres of land made available by Barbers Point Joint base closure. The BWS would finance the project to be designed and constructed, then operated and maintained over 20 years. He explained that the seawater desalination plant's initial estimated capacity is 1.7 million gallons per day (mgd) to feed into the BWS system, expandable to 5 mgd, and the operational period is 20-years.

Manager Lau stated that the project at Kalaeloa has the opportunity to get funding up to 25% from the federal government through the United States (US) Bureau of Reclamation of the Department of Interior. It was with the assistance of the late Senator Daniel Inouye and his aide that this project was identified in appropriation legislation, therefore, the project qualifies for US Bureau of Reclamation funding. The BWS is hoping to complete the project and begin operations in 2024.

Board Member Butay thanked Manager Lau for the explanation on the desalination facility at Kalaeloa.

Board Member Butay inquired now that tourism and passenger arrivals are beginning to rise again has the revenue projections been accounted for.

Manager Lau replied that at the beginning of the pandemic, water usage became more significant in the residential areas as people were issued the stay-at-home order. As travel restrictions and hotels open, there may be a shift in water use from the residential areas back to the resort area. The BWS will monitor the usage in Waikiki as an indicator if Waikiki recovers. Manager Lau asked Ms. Nakabayashi to explain more about the revenue projections.

Ms. Nakabayashi explained that the BWS uses historical revenue collections as the basis to project forward how much revenue the BWS will be collecting with the new rate increases, however, it didn't specifically factor in the return of tourism. In Fiscal Year 2021 the revenue projections were prepared using historical data. But in consideration of the impacts of COVID-19, the BWS did reduce those projections to present a more conservative revenue projection. In projecting the Fiscal Year 2022 revenues, the BWS considered the revenue collections in Fiscal Year 2021 and applied the new rates to these figures.

Board Member Ray Soon inquired if the proposed budget being presented included the same information and calculations from the Budget Workshop presented on May 10, 2021.

Ms. Nakabayashi replied that no changes had been made to the Fiscal Year 2022 Proposed Budget since the Budget Workshop on May 10, 2021.

Board Member Soon expressed he was concerned about filling positions to reach the BWS goals of replacing 21 miles of pipeline and completing CIP. He requested that the Board be updated periodically throughout the year on the status of the vacancies.

Manager Lau commented it's an ongoing challenge that the BWS faces. Therefore a Permitted Interaction Group (PIG) is being created to address the challenges of filling vacancies.

Chair Andaya if there were any further questions or discussion on Fiscal Year 2022 Proposed Budget. Hearing none, Chair Andaya asked Ms. Cruz-Achiu if any emails or written testimonies were received on the proposed budget. Ms. Cruz-Achiu responded that no written testimonies or emails were submitted. Chair Andaya stated to let the record reflect that no email or written testimonies were submitted. Chair Andaya announced that the phone lines were open for public testimony and asked Mr. Norstrom if there was anyone on the phone to testify. Mr. Norstrom replied there were no callers were waiting to testify. Chair Andaya confirmed that no callers were waiting to testify

Chair Andaya closed the Public Hearing at 2:44 PM and continued with the Regular Board Meeting.

AFFIDAVIT OF PUBLICATION

IN THE MATTER OF
NOTICE OF PUBLIC HEARING

STATE OF HAWAII
City and County of Honolulu

Doc. Date: MAY 14 2021 # Pages: 1
Notary Name: COLLEEN E. SORANAKA First Judicial Circuit
Doc. Description: Affidavit of Publication
Notary Signature: [Signature] Date: MAY 14 2021
Notary Public Seal: COLLEEN E. SORANAKA, No. 90-263, STATE OF HAWAII

Lisa Sakakida being duly sworn, deposes and says that she is a clerk, duly authorized to execute this affidavit of Oahu Publications, Inc. publisher of The Honolulu Star-Advertiser, MidWeek, The Garden Island, West Hawaii Today, and Hawaii Tribune-Herald, that said newspapers are newspapers of general circulation in the State of Hawaii, and that the attached notice is true notice as was published in the

Honolulu Star-Advertiser 1 times on: 05/14/2021
MidWeek 0 times on:
The Garden Island 0 times on:
Hawaii Tribune-Herald 0 times on:
West Hawaii Today 0 times on:
Other Publications: 0 times on:

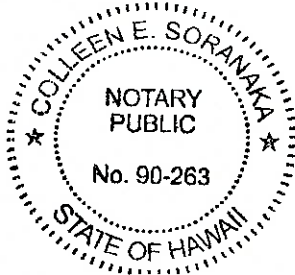
And that affiant is not a party to or in any way interested in the above entitled matter.

[Signature]
Lisa Sakakida

Subscribed to and sworn before me this 14th day of May A.D. 20 21

Colleen E. Soranaka, Notary Public of the First Judicial Circuit, State of Hawaii
My commission expires: Jan 06 2024

Ad # 0001325988



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NOTICE OF PUBLIC HEARING

NOTICE IS HEREBY GIVEN that the BOARD OF WATER SUPPLY, CITY AND COUNTY OF HONOLULU, will hold a PUBLIC HEARING in the Board Room, Public Service Building, 630 South Beretania Street, on Monday, May 24, 2021, at 2:00 p.m. or soon thereafter, where all interested persons shall be afforded the opportunity of being heard, while complying with all directives from the Governor of the State of Hawaii and the Mayor of the City and County of Honolulu, on the adoption of the Proposed to the Fiscal Year (FY) 2021-2022 Operating and Capital Improvement Program Budget of the Board of Water Supply for the fiscal year beginning July 1, 2021, and ending June 30, 2022.

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.

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Persons wishing to present telephone testimony are requested to register by 1:00 p.m. on Friday, May 21, 2021, with Luella Paekukul, 748-5176, by providing your name, phone number, and subject matter of testimony. Telephone testimony is limited to two (2) minutes and shall be presented by the registered speaker only. Any person requiring special assistance may contact Luella Paekukul at (808) 748-5176 no later than May 18, 2021, so that appropriate accommodations can be provided.

BOARD OF WATER SUPPLY
CITY AND COUNTY OF HONOLULU

(SA1325988 5/14/21)

ICSP NO.:



PUBLIC HEARING
PROPOSED FISCAL YEAR 2021-
2022 OPERATING AND
CAPITAL IMPROVEMENT
PROGRAM BUDGET FOR
THE BOARD OF WATER SUPPLY

Raelynn Nakabayashi & Jason Takaki, P.E.

May 24, 2021

boardofwatersupply.com

UWE KA LANI OLA KA HONUA

FY 2022 OPERATING BUDGET AND CAPITAL IMPROVEMENT PROGRAM BUDGET

RAEYNN NAKABAYASHI, EXECUTIVE SUPPORT OFFICE
MAY 24, 2021

WWW.BOARDOFWATERSUPPLY.COM



FY 2022 BUDGET SUMMARY

	FY 2021 – Adopted	FY 2022 – Proposed	\$ Change	% Change
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%)



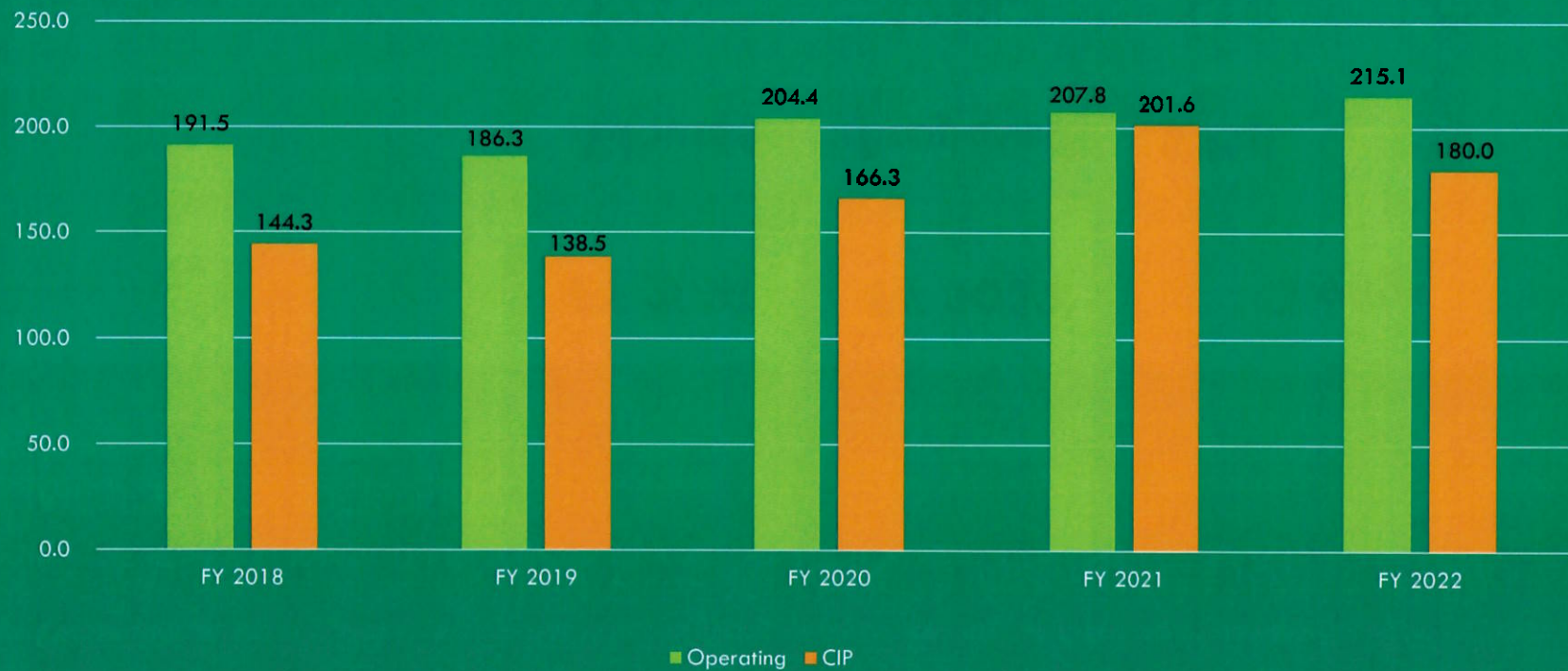
FY 2022 BUDGET SUMMARY

- 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	\$55.9	\$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



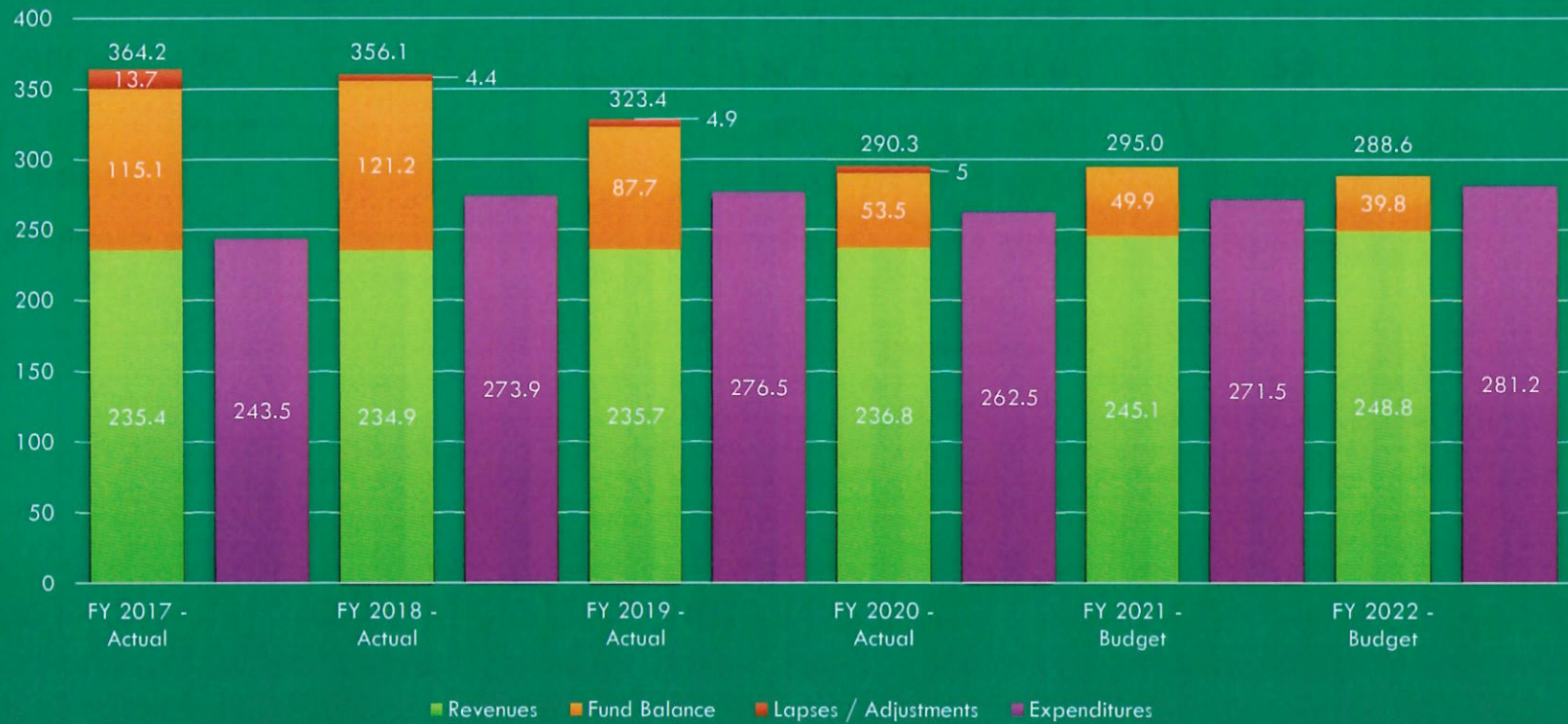
FY2022 BUDGET COMPARISON TO UPDATED LONG RANGE FINANCIAL PLAN

(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%
Total:	\$218.6	\$215.2	(3.4)	-1.6%



TOTAL RESOURCES VS. TOTAL EXPENDITURES (MILLIONS OF DOLLARS)



OPERATING FUND RESOURCES AND EXPENDITURES

(MILLIONS OF DOLLARS)

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



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.

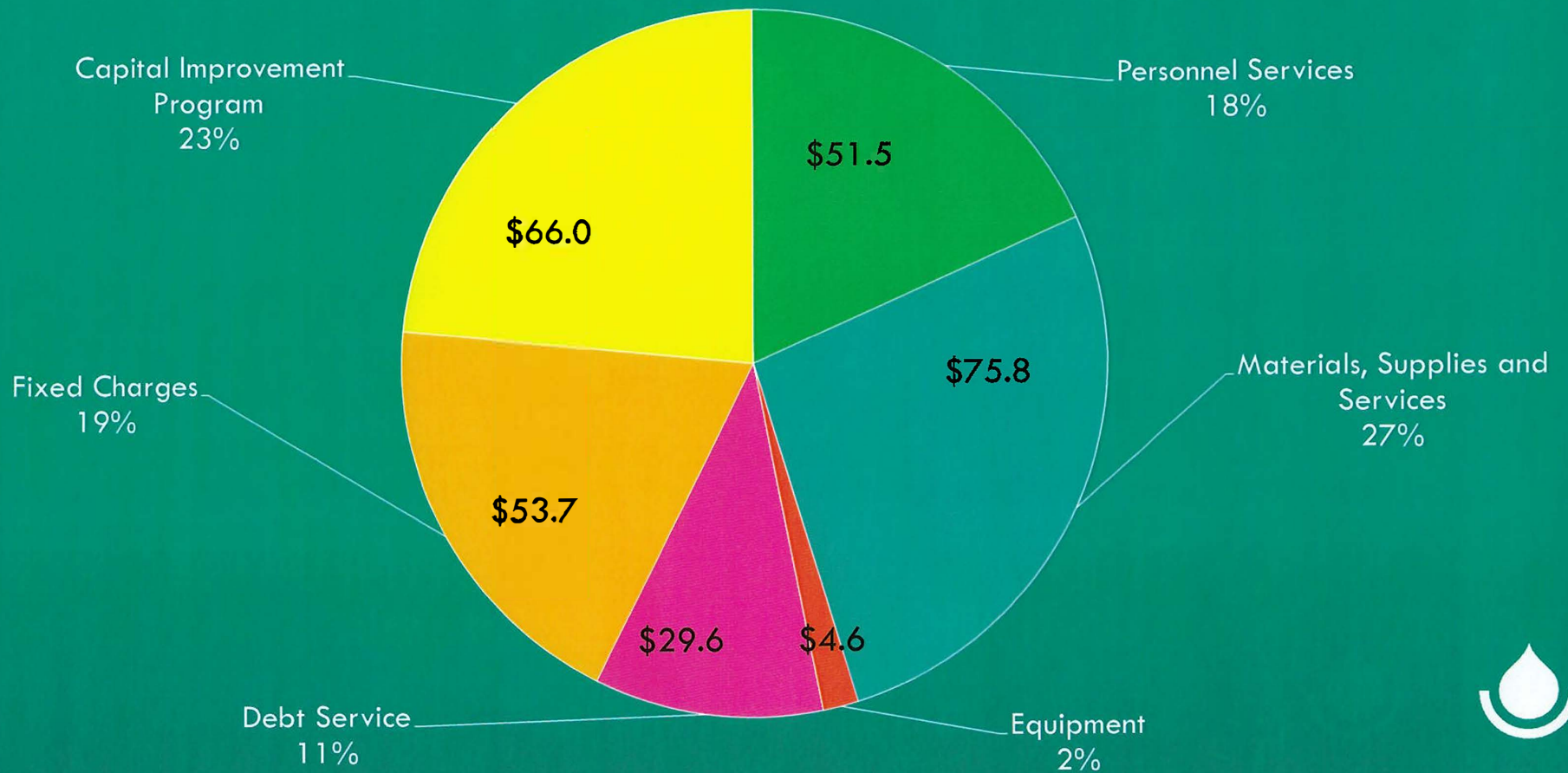
4.4.3 Working Capital – FY20 **103 Days**

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

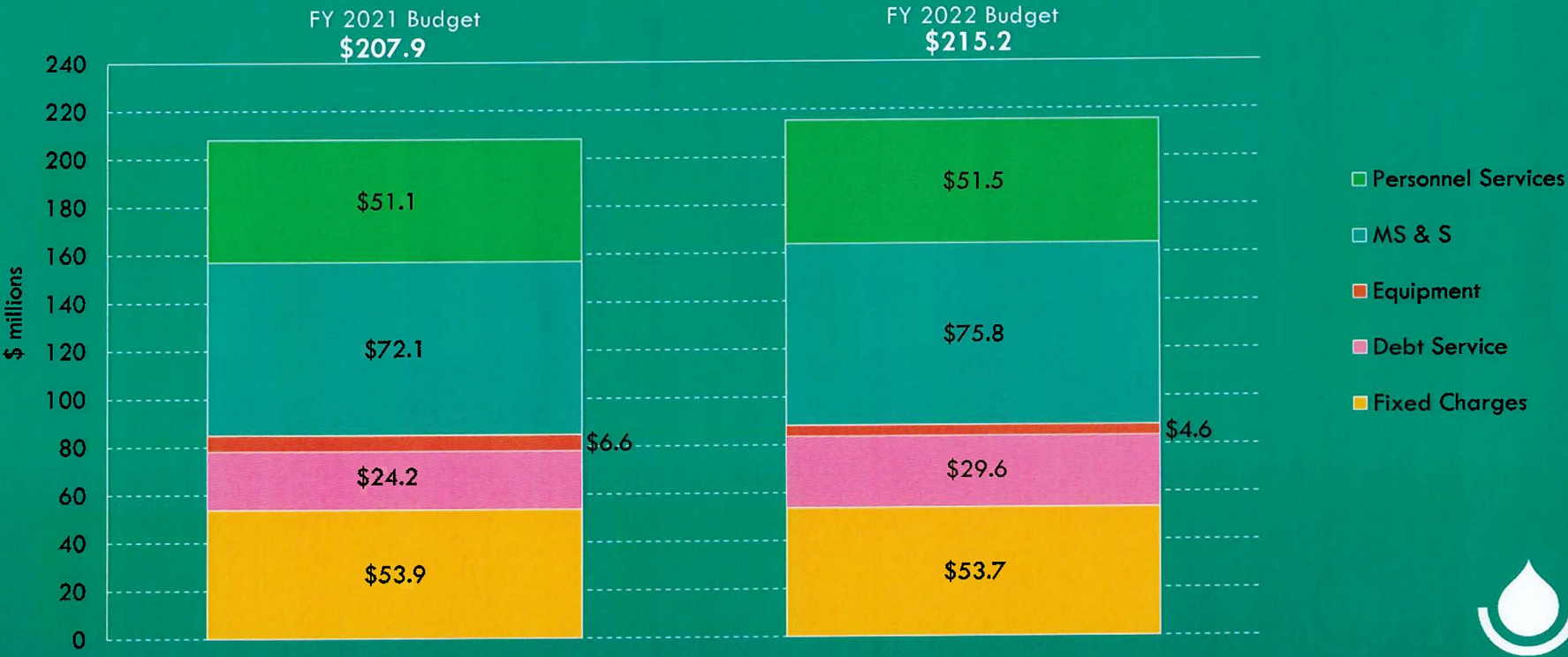


OPERATING FUND EXPENDITURES

(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%
TOTAL REVENUES	\$236,753,667	\$245,091,300	\$248,848,000	1.5%



OPERATING FUND REVENUES



OPERATING FUND BUDGET SUMMARY

- (DECREASED RESOURCES)

- The projected carryforward/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 LRF
- 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 LRF



FY 2022 CAPITAL IMPROVEMENT PROGRAM BUDGET

JASON TAKAKI, P.E. – CAPITAL PROJECTS DIVISION

MAY 24, 2021

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

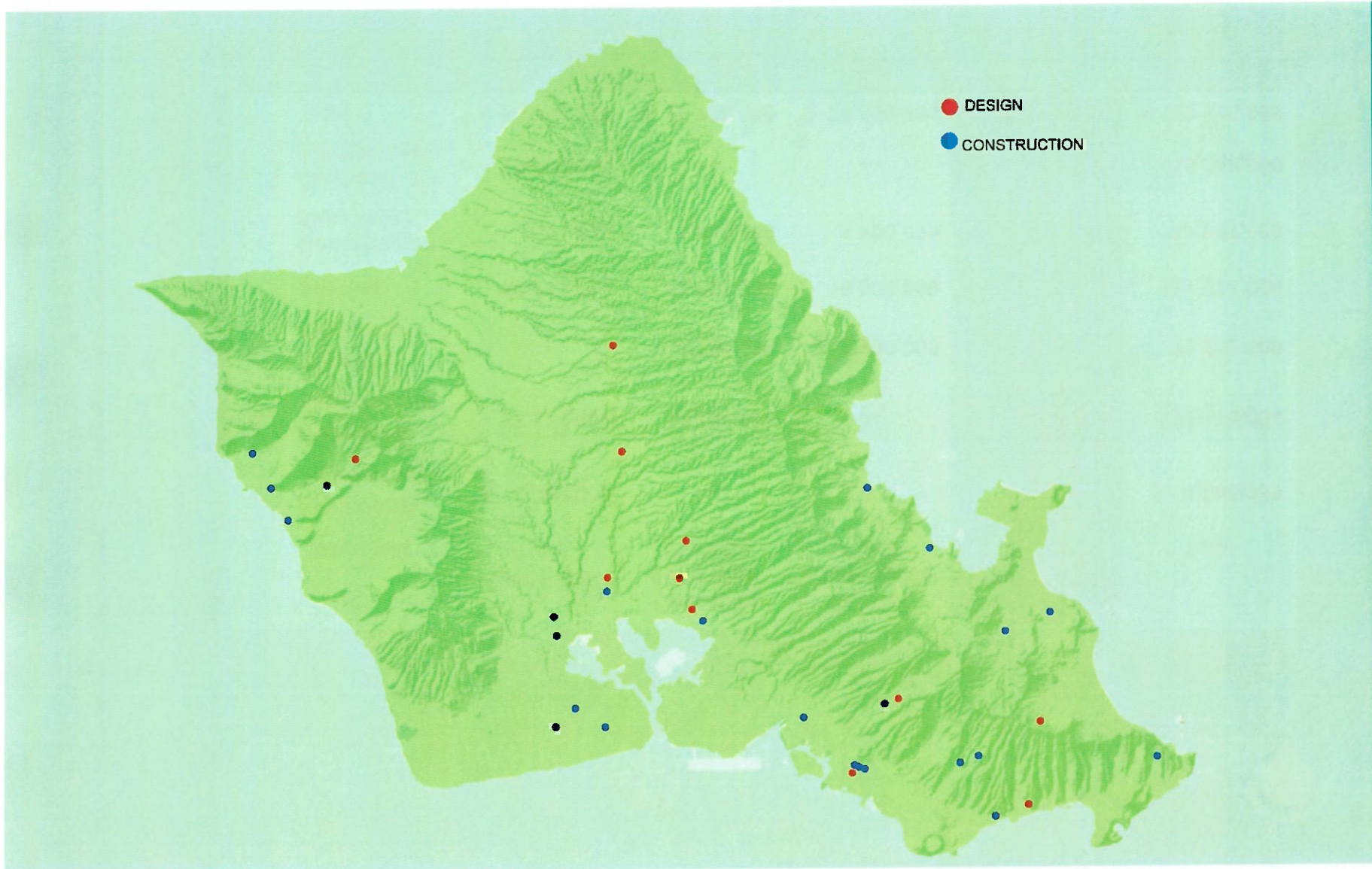
Capacity Expansion



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





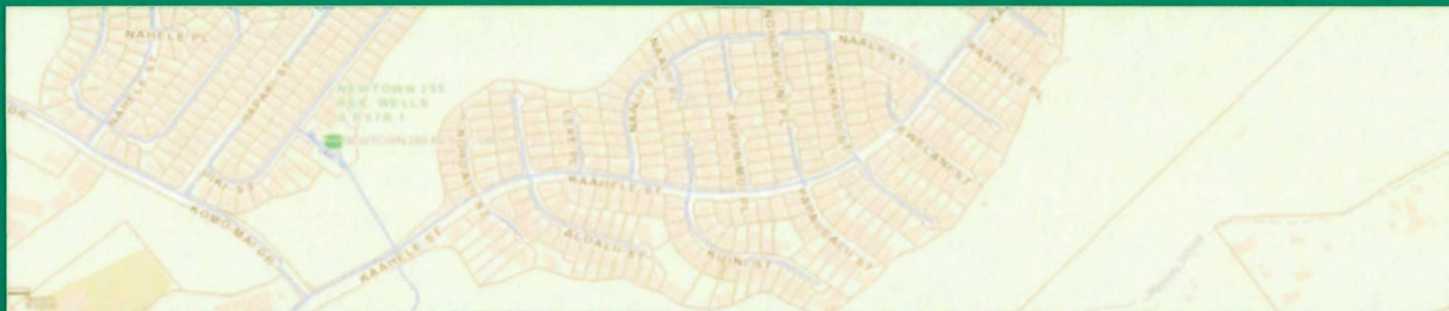
- DESIGN
- CONSTRUCTION



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)

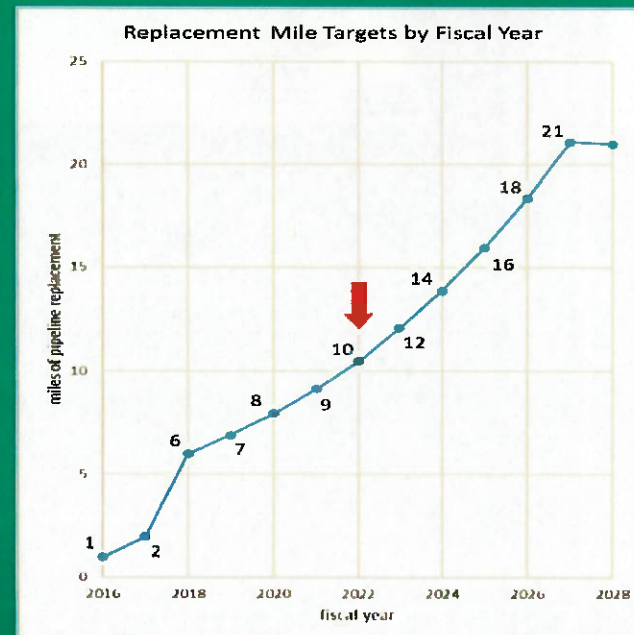
- Waialae Iki Booster No. 1 Relocation
- Waihee Line Booster: Replace Pumping Units
- Kaamilo Booster and Kaamilo Wells Renovation
- Waipio Heights Wells and Wells I renovation
- Kamaile Wells Renovation, Drainage Improvements and Well Sealing
- Makaha Shaft Tunnel Rehabilitation



PROJECT CATEGORY HIGHLIGHTS

Renewal and Replacement (continued)

- Main replacement construction in Kailua, Kalihi, Nuuanu, Palolo and Hawaii Kai – **10 miles**
- Main replacement design in various locations – **10 miles**



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)

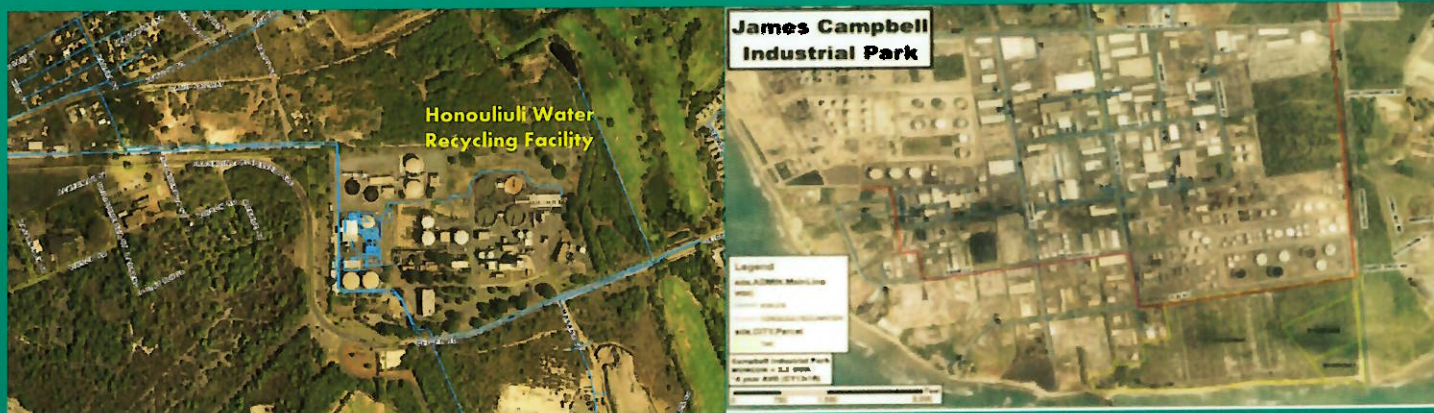
- Facility Reroofing, Repair and Renovations
- Security Improvements at Various Locations



PROJECT CATEGORY HIGHLIGHTS

Capacity Expansion (\$23.2 million)

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





Mahalo!

BOARD OF WATER SUPPLY

Public Hearing – FY2022 Operating and CIP Budget
Raelynn Nakabayashi & Jason Takaki, P.E.
rnakabayashi@hbws.org & jtakaki@hbws.org
boardofwatersupply.com for more information

May 24, 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

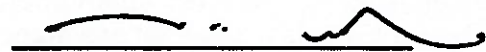
Roger W. Babcock, Jr., Ex-Officio

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 Fund¹; \$93.4 million from the Improvement Fund² and \$20.6 million from the Special Expendable Fund³. 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.

¹Operating Fund" is defined as rate revenue or cash

²Improvement Fund" is defined as the proceeds of Water System Revenue Bonds

³Special 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	236,753,667	245,091,300	248,848,000	1.5%

*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	<u>186,050,427</u>	<u>207,848,937</u>	<u>215,140,447</u>	<u>7,291,510</u>	<u>3.5%</u>
Transfer to the CIP Program	76,442,460	63,627,500	66,026,000	2,398,500	3.8%
Total Expenditures	<u>262,492,887</u>	<u>271,476,437</u>	<u>281,166,447</u>	<u>9,690,010</u>	<u>3.6%</u>

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	<u>186,700,000</u>	<u>185,552,447</u>	<u>(1,147,553)</u>

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 Fund¹ -- \$66 million; Improvement Fund² -- \$93.4 million and the Special Expendable Fund³ -- \$20.6 million. Of the \$66 million in CIP projects that will be funded through the Operating Fund¹; \$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:

Fiscal Year	Resource	Transmission	Storage	Total
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

¹Operating Fund" is defined as rate revenue or cash

²Improvement Fund" is defined as the proceeds of Water System Revenue Bonds

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

Chair and Members
Board of Water Supply
May 24, 2021
Page 8

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,

A handwritten signature in blue ink, appearing to read 'Ernest Y.W. Lau', with a stylized flourish at the end.

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

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SUMMARY OF ALL FUNDS

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
Operating Budget	215,140,447	-	-	-	215,140,447
Capital Improvement Program	50,296,000	15,730,000	20,600,000	93,350,000	179,976,000
Total - All Funds	<u>265,436,447</u>	<u>15,730,000</u>	<u>20,600,000</u>	<u>93,350,000</u>	<u>395,116,447</u>

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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

Resources and Expenditures	FY2020 Actual	FY2021 Adopted Budget	FY2022 Proposed Budget
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
Total Resources	295,280,389	294,999,550	288,620,388
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
Total Expenditures	262,492,887	271,476,437	281,166,447
Ending Balance	32,787,502	23,523,113	7,453,941

Board of Water Supply
Operating Budget Revenues
Fiscal Year 2022

Department Summary

Revenues	FY2020 Actual	FY2021 Adopted Budget	FY2022 Proposed Budget
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
Total	236,753,666	245,091,300	248,848,000

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

Department Summary

Expenditure Classification	FY2020 Actual	FY2021 Adopted Budget	FY2022 Proposed Budget
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
Operating Expenditures	186,050,427	207,848,937	215,140,447
Transfer to Capital Improvement Program	76,442,460	63,627,500	66,026,000
Transfer to Special Expendable Fund	0	0	0
Total Expenditures	262,492,887	271,476,437	281,166,447

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

Department Summary by Division/Office

Expenditure Classification (Personnel Services, Materials, Supplies and Services, and Equipment)	FY2020 Actual	FY2021 Adopted Budget	FY2022 Proposed Budget
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
Total of Divisions and Offices	112,172,857	129,725,937	131,901,439
Departmental Fixed Charges	51,288,910	53,909,000	53,651,008
Debt Service	22,588,660	24,214,000	29,588,000
Total Operating Expenditures	186,050,427	207,848,937	215,140,447

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

Department Summary by Division/Office

Division and Offices	Personnel Services	Materials, Supplies, and Services	Equipment	Debt Service and Dept Fixed Charges	FY2022 Proposed Budget
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
Total:	51,485,567	75,814,672	4,601,200	0	131,901,439
Fixed Charges and Debt Service	0	0	0	83,239,008	83,239,008
Grand Total	51,485,567	75,814,672	4,601,200	83,239,008	215,140,447

**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
Total	733.0	2.0	35.0	770.0	43,951,908	74,146	1,024,585	45,050,638

Board of Water Supply
 Operating Budget
 Debt Service
 Fiscal Year 2022

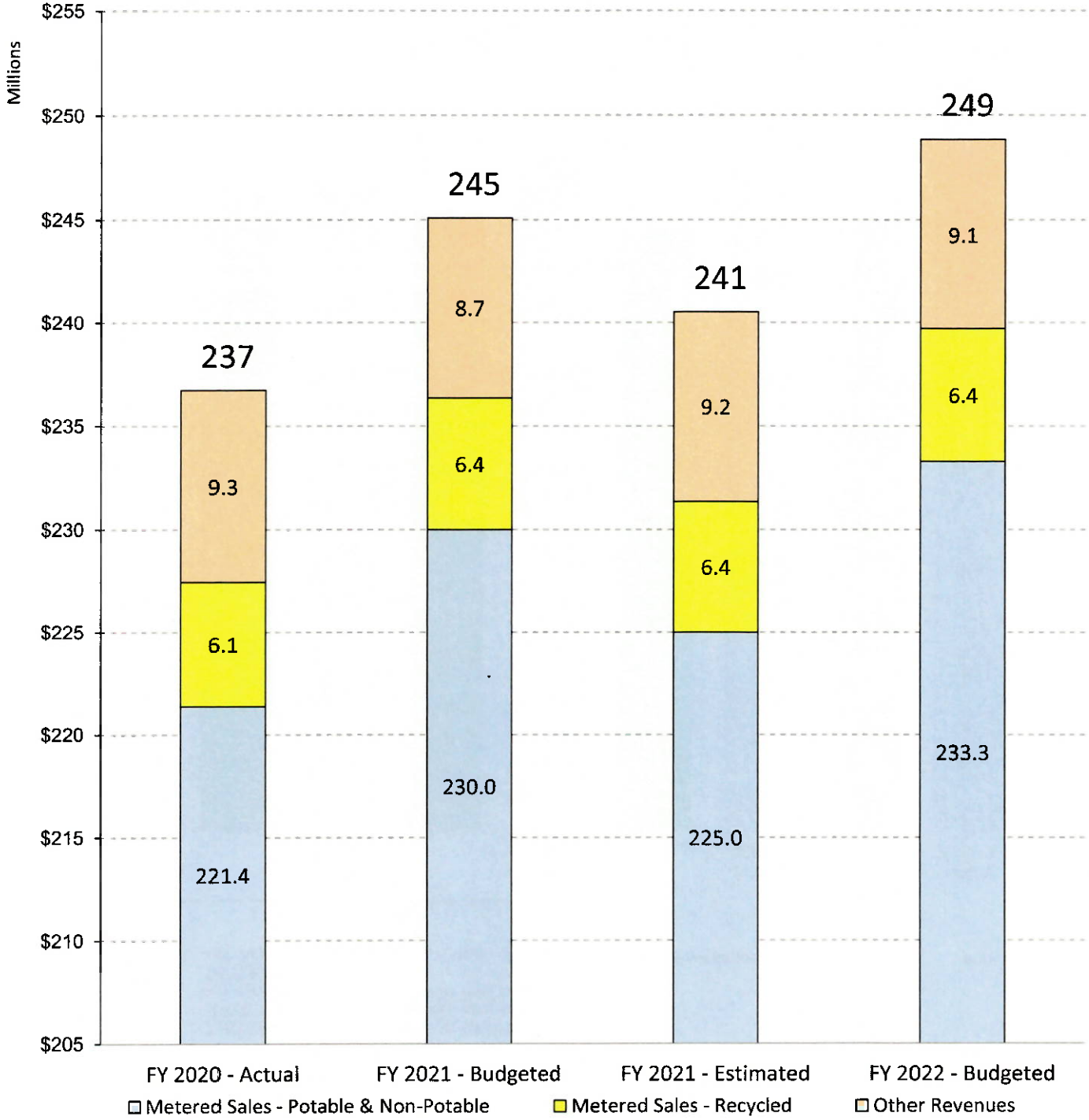
DEBT SERVICE

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	<u>8,554,913</u>	<u>17,929,000</u>	<u>22,575,000</u>
Notes Payable:			
SRF Loans	4,029,408	6,285,000	8,197,000
Debt Service - Notes Payable	<u>4,029,408</u>	<u>6,285,000</u>	<u>8,197,000</u>
Total	<u><u>12,584,321</u></u>	<u><u>24,214,000</u></u>	<u><u>30,772,000</u></u>

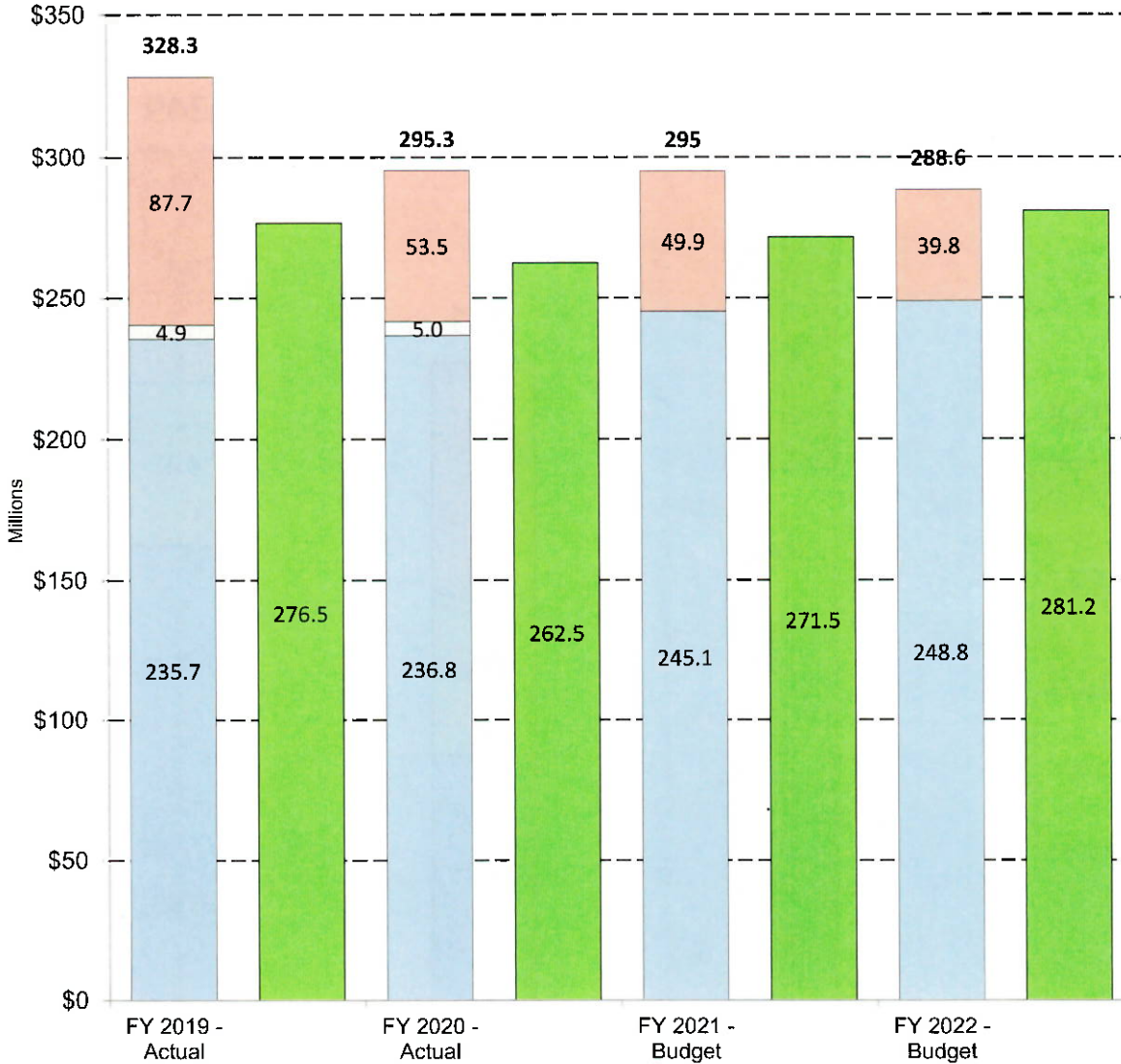
Bond Issues:			
<u>Year Issued</u>	<u>Par Amount</u>	<u>Fiscal Year Expires</u>	<u>Years</u>
2012A	\$ 27,115,000	2023	11
2014A	\$ 101,655,000	2037	22
2014B	\$ 25,085,000	2032	18
2020A	\$ 59,105,000	2050	30
2020B	\$ 47,530,000	2034	14
2021A	\$ 50,020,000	2051	30
2021B	\$ 43,515,000	2032	11

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



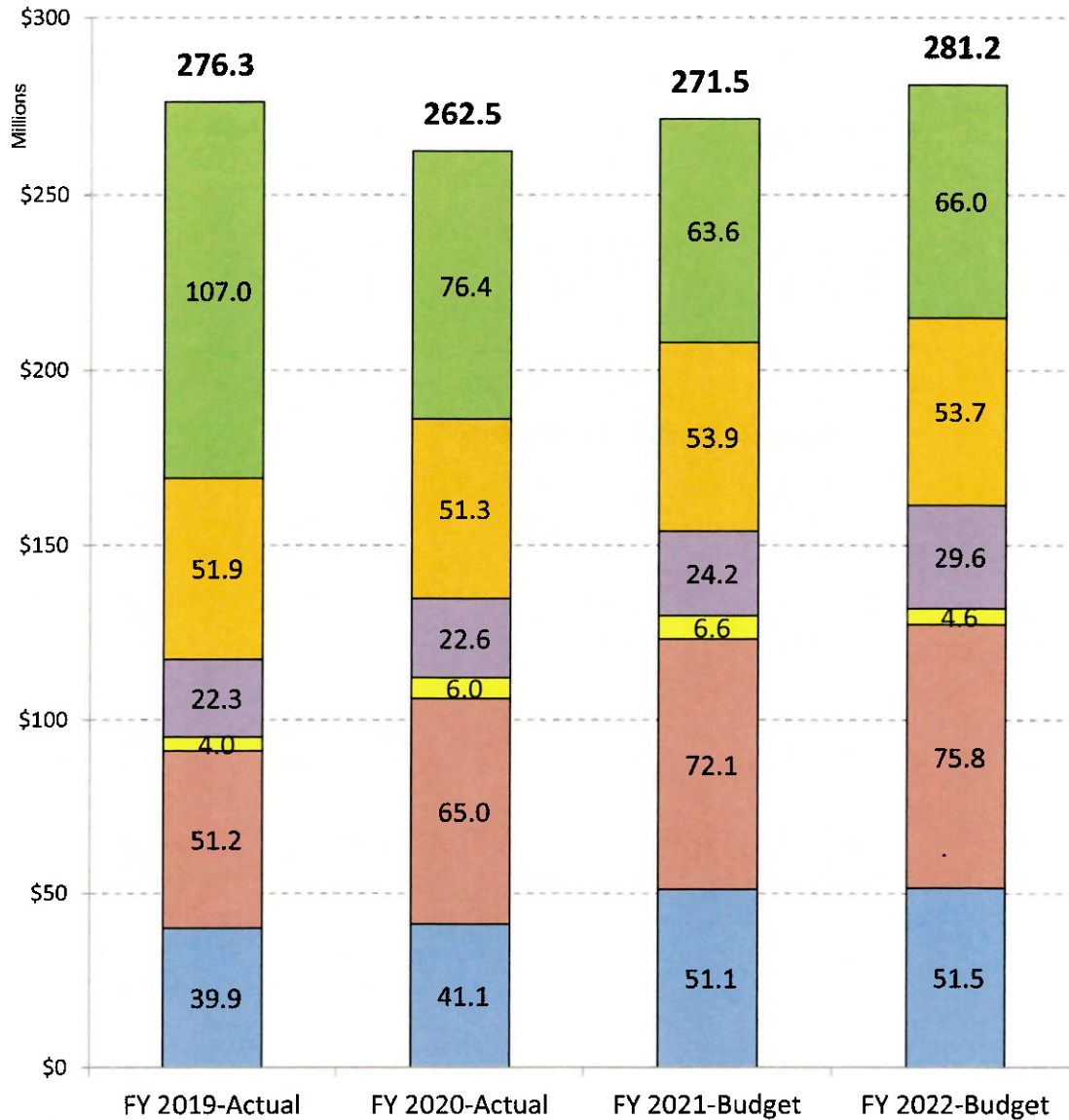
**BOARD OF WATER SUPPLY
TOTAL RESOURCES VS. TOTAL EXPENDITURES
FISCAL YEAR 2022**



- Revenues
- Expenditures
- Fund Balance
- Lapses / Adjustments

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	\$ 7,453,941

**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-
Total	\$281,166,447

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PART I

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

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
Personnel Services	1,155,749	1,357,200	1,259,638	1,357,100	97,462
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)
Materials, Supplies and Services	6,132,712	7,004,251	7,408,099	7,672,765	264,666
1270 - General Plant & Equip (over \$5,000)	65,154	125,000	25,000	25,000	0
Equipment	65,154	125,000	25,000	25,000	0
Total ESO - Executive Support Office	7,353,615	8,486,451	8,692,737	9,054,865	362,128

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
Personnel Services	148,806	239,400	149,450	240,300	90,850
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
Materials, Supplies and Services	195,259	354,700	230,950	228,700	(2,250)
1270 - General Plant & Equip (over \$5,000)	29,972	0	0	0	0
Equipment	29,972	0	0	0	0
Total Executive Support Office - Administration	374,037	594,100	380,400	469,000	88,600

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
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
Personnel Services	315,879	332,500	342,350	342,200	(150)
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
Materials, Supplies and Services	3,565,785	4,505,751	4,506,399	4,632,965	126,566
1270 - General Plant & Equip (over \$5,000)	22,074	0	0	0	0
Equipment	22,074	0	0	0	0
Total Risk Management	3,903,738	4,838,251	4,848,749	4,975,165	126,416

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
Personnel Services	215,099	255,900	165,250	98,600	(66,650)
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)
Materials, Supplies and Services	2,282,436	2,097,300	2,505,300	2,774,000	268,700
1270 - General Plant & Equip (over \$5,000)	0	0	25,000	25,000	0
Equipment	0	0	25,000	25,000	0
Total Security Office	2,497,535	2,353,200	2,695,550	2,897,600	202,050

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
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
Personnel Services	154,679	164,500	216,688	258,000	41,312
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)
Materials, Supplies and Services	26,082	38,500	34,200	35,600	1,400
1270 - General Plant & Equip (over \$5,000)	13,109	45,000	0	0	0
Equipment	13,109	45,000	0	0	0
Total Management and Budget	193,869	248,000	250,888	293,600	42,712

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
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
Personnel Services	321,286	364,900	385,900	418,000	32,100
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
Materials, Supplies and Services	63,150	8,000	131,250	1,500	(129,750)
1270 - General Plant & Equip (over \$5,000)	0	80,000	0	0	0
Equipment	0	80,000	0	0	0
Total Procurement Section	384,436	452,900	517,150	419,500	(97,650)

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
4110 - Salaries & Wages	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
Personnel Services	866,887	887,167	854,600	878,576	23,976
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
Materials, Supplies and Services	357,939	559,520	447,077	496,863	49,786
1270 - General Plant & Equip (over \$5,000)	0	0	0	0	0
Equipment	0	0	0	0	0
Total Communications Office	1,224,826	1,446,687	1,301,677	1,375,439	73,762

Budget Highlights

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

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
4110 - Salaries & Wages	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
Personnel Services	498,436	573,900	586,000	593,900	7,900
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
Materials, Supplies and Services	39,353	202,650	221,100	121,100	(100,000)
1270 - General Plant & Equip (over \$5,000)	0	5,500	1,500	0	(1,500)
Equipment	0	5,500	1,500	0	(1,500)
Total Human Resources Office	537,789	782,050	808,600	715,000	(93,600)

Budget Highlights

**Board of Water Supply
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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)
Personnel Services	1,787,570	1,980,400	2,247,000	2,035,400	(211,600)
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)
Materials, Supplies and Services	6,302,049	8,100,050	9,941,600	11,211,210	1,269,610
1270 - General Plant & Equip (over \$5,000)	55,812	155,500	33,000	74,000	41,000
Equipment	55,812	155,500	33,000	74,000	41,000
Total WQ - Water Quality	8,145,431	10,235,950	12,221,600	13,320,610	1,099,010

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
4110 - Salaries & Wages	388,442	405,300	407,300	337,800	(69,500)
4130 - Miscellaneous (Payroll)	0	0	0	0	0
Personnel Services	388,442	405,300	407,300	337,800	(69,500)
4160 - Meals; Mileage & Uniform Allowances	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
Materials, Supplies and Services	5,367,017	6,850,900	8,712,110	10,157,560	1,445,450
1270 - General Plant & Equip (over \$5,000)	55,812	75,000	0	0	0
Equipment	55,812	75,000	0	0	0
Total Water Quality Administration	5,811,270	7,331,200	9,119,410	10,495,360	1,375,950

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)
Personnel Services	581,681	601,200	642,000	618,300	(23,700)
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)
Materials, Supplies and Services	596,179	843,550	883,890	777,050	(106,840)
1270 - General Plant & Equip (over \$5,000)	0	0	8,000	0	(8,000)
Equipment	0	0	8,000	0	(8,000)
Total Chemical Laboratory	1,177,860	1,444,750	1,533,890	1,395,350	(138,540)

Budget Highlights

**Board of Water Supply
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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
4110 - Salaries & Wages	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
Personnel Services	519,394	636,900	768,800	698,600	(70,200)
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)
Materials, Supplies and Services	315,705	292,600	210,600	185,800	(24,800)
1270 - General Plant & Equip (over \$5,000)	0	80,500	20,000	6,000	(14,000)
Equipment	0	80,500	20,000	6,000	(14,000)
Total Microbiological Laboratory	835,099	1,010,000	999,400	890,400	(109,000)

Budget Highlights

Board of Water Supply
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Fiscal Year 2022

WQ - Water Quality

5255 - Cross-Connection Control

Section's Activity

Account	FY2020 Actual	FY2020 Adopted Budget	FY2021 Adopted Budget	FY2022 Proposed Budget	Change
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
Personnel Services	298,053	337,000	428,900	380,700	(48,200)
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)
Materials, Supplies and Services	23,148	113,000	135,000	90,800	(44,200)
1270 - General Plant & Equip (over \$5,000)	0	0	5,000	68,000	63,000
Equipment	0	0	5,000	68,000	63,000
Total Cross-Connection Control	321,201	450,000	568,900	539,500	(29,400)

Budget Highlights

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

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
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
Personnel Services	3,431,966	4,378,200	4,595,900	4,398,840	(197,060)
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)
Materials, Supplies and Services	838,123	1,188,940	1,085,905	1,074,570	(11,335)
1270 - General Plant & Equip (over \$5,000)	119,082	56,000	10,000	10,000	0
Equipment	119,082	56,000	10,000	10,000	0
Total CC - Customer Care	4,389,171	5,623,140	5,691,805	5,483,410	(208,395)

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
4110 - Salaries & Wages	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
Personnel Services	269,384	303,800	272,300	273,040	740
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)
Materials, Supplies and Services	143,944	152,440	34,720	20,220	(14,500)
Total Customer Care Administration	413,328	456,240	307,020	293,260	(13,760)

Budget Highlights

**Board of Water Supply
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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
4110 - Salaries & Wages	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
Personnel Services	550,729	756,500	887,800	789,100	(98,700)
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)
Materials, Supplies and Services	564,032	902,000	931,985	942,400	10,415
1270 - General Plant & Equip (over \$5,000)	0	36,000	0	0	0
Equipment	0	36,000	0	0	0
Total Collection and Credit	1,114,761	1,694,500	1,819,785	1,731,500	(88,285)

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
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
Personnel Services	297,881	555,800	397,700	414,600	16,900
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
Materials, Supplies and Services	2,886	2,400	2,600	2,600	0
1270 - General Plant & Equip (over \$5,000)	102,700	0	0	0	0
Equipment	102,700	0	0	0	0
Total Service Engineering	403,467	558,200	400,300	417,200	16,900

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
4110 - Salaries & Wages	21,495	0	0	0	0
4120 - Overtime	6,737	0	0	0	0
Personnel Services	28,231	0	0	0	0
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
Materials, Supplies and Services	39,019	0	0	0	0
Total Cross-Connection Control	67,251	0	0	0	0

Budget Highlights

**Board of Water Supply
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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
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
Personnel Services	861,551	1,204,000	1,364,800	1,441,100	76,300
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
Materials, Supplies and Services	3,436	8,700	2,700	19,600	16,900
Total Customer Service and Records	864,987	1,212,700	1,367,500	1,460,700	93,200

Budget Highlights

**Board of Water Supply
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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
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
Personnel Services	1,424,190	1,558,100	1,673,300	1,481,000	(192,300)
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)
Materials, Supplies and Services	84,806	123,400	113,900	89,750	(24,150)
1270 - General Plant & Equip (over \$5,000)	16,382	20,000	10,000	10,000	0
Equipment	16,382	20,000	10,000	10,000	0
Total Investigation	1,525,378	1,701,500	1,797,200	1,580,750	(216,450)

Budget Highlights

**Board of Water Supply
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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
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
Personnel Services	219,232	274,600	309,600	333,900	24,300
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
Materials, Supplies and Services	180,930	546,000	1,459,740	699,090	(760,650)
Total Land	400,162	820,600	1,769,340	1,032,990	(736,350)

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
4110 - Salaries & Wages	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
Personnel Services	2,286,366	2,601,196	2,652,892	2,778,451	125,559
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
Materials, Supplies and Services	11,802,879	12,970,391	11,418,727	11,359,031	(59,696)
1270 - General Plant & Equip (over \$5,000)	0	90,000	90,000	21,500	(68,500)
Equipment	0	90,000	90,000	21,500	(68,500)
Total WR - Water Resources	14,089,245	15,661,587	14,161,619	14,158,982	(2,637)

Notes

Board of Water Supply
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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
4110 - Salaries & Wages	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
Personnel Services	368,538	369,300	379,200	375,900	(3,300)
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
Materials, Supplies and Services	1,896,326	1,926,900	927,810	159,310	(768,500)
Total Water Resources Administration	2,264,865	2,296,200	1,307,010	535,210	(771,800)

Budget Highlights

**Board of Water Supply
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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
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
Personnel Services	341,637	374,338	358,945	436,145	77,200
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
Materials, Supplies and Services	9,609	47,240	43,750	134,290	90,540
1270 - General Plant & Equip (over \$5,000)	0	0	0	21,500	21,500
Equipment	0	0	0	21,500	21,500
Total Water System Planning	351,246	421,578	402,695	591,935	189,240

Budget Highlights

Board of Water Supply
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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
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
Personnel Services	469,158	532,405	496,805	503,705	6,900
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
Materials, Supplies and Services	1,553,397	1,540,500	1,542,950	2,989,793	1,446,843
Total Water Conservation	2,022,555.	2,072,905	2,039,755	3,493,498	1,453,743

Budget Highlights

**Board of Water Supply
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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
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)
Materials, Supplies and Services	7,376,023	8,292,587	6,720,619	5,539,751	(1,180,868)
Total Recycled Water	7,376,023	8,292,587	6,720,619	5,539,751	(1,180,868)

Budget Highlights

**Board of Water Supply
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Fiscal Year 2022**

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
4110 - Salaries & Wages	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
Personnel Services	352,287	527,353	572,042	571,871	(171)
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
Materials, Supplies and Services	960,940	1,143,064	2,166,058	2,519,347	353,289
1270 - General Plant & Equip (over \$5,000)	0	90,000	90,000	0	(90,000)
Equipment	0	90,000	90,000	0	(90,000)
Total Hydrology-Geology	1,313,227	1,760,417	2,828,100	3,091,218	263,118

Budget Highlights

**Board of Water Supply
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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
Personnel Services	312,170	312,500	342,200	384,600	42,400
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
Materials, Supplies and Services	3,170	3,580	6,450	6,450	0
Total Project Review	315,339	316,080	348,650	391,050	42,400

Budget Highlights

**Board of Water Supply
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Fiscal Year 2022**

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
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
Personnel Services	442,576	485,300	503,700	506,230	2,530
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
Materials, Supplies and Services	3,414	16,520	11,090	10,090	(1,000)
Total Long Range Planning	445,990	501,820	514,790	516,320	1,530

Budget Highlights

**Board of Water Supply
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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
4110 - Salaries & Wages	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
Personnel Services	13,620,599	16,888,200	18,344,500	18,921,200	576,700
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)
Materials, Supplies and Services	16,411,619	19,085,550	16,085,315	17,562,325	1,477,010
1270 - General Plant & Equip (over \$5,000)	656,512	284,000	105,000	28,000	(77,000)
Equipment	656,512	284,000	105,000	28,000	(77,000)
Total FO - Field Operations	30,688,730	36,257,750	34,534,815	36,511,525	1,976,710

Notes

Board of Water Supply
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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
Personnel Services	425,394	452,700	482,200	487,300	5,100
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
Materials, Supplies and Services	7,932,477	9,989,000	8,180,000	9,740,000	1,560,000
1270 - General Plant & Equip (over \$5,000)	0	0	0	0	0
Equipment	0	0	0	0	0
Total Field Operations Administration	8,357,871	10,441,700	8,662,200	10,227,300	1,565,100

Budget Highlights

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FO - Field Operations

5525 - Engineering & Technical Support Section

Section's Activity

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

Account	FY2020 Actual	FY2020 Adopted Budget	FY2021 Adopted Budget	FY2022 Proposed Budget	Change
4110 - Salaries & Wages	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)
Personnel Services	335,528	493,900	527,200	416,800	(110,400)
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
Materials, Supplies and Services	18,907	177,000	23,500	31,750	8,250
1270 - General Plant & Equip (over \$5,000)	39,090	40,000	65,000	20,000	(45,000)
Equipment	39,090	40,000	65,000	20,000	(45,000)
Total Technical & Operational Support Branch	393,525	710,900	615,700	468,550	(147,150)

Budget Highlights

Board of Water Supply
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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
Personnel Services	902,873	1,321,200	1,535,900	1,380,000	(155,900)
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
Materials, Supplies and Services	1,598,697	3,601,700	2,771,075	2,762,975	(8,100)
1270 - General Plant & Equip (over \$5,000)	0	244,000	0	0	0
Equipment	0	244,000	0	0	0
Total Technical & Operational Support Branch	2,501,570	5,166,900	4,306,975	4,142,975	(164,000)

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
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
Personnel Services	300,049	348,400	352,700	349,700	(3,000)
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
Materials, Supplies and Services	2,377,288	2,985,800	3,284,000	3,254,000	(30,000)
Total Technical & Operational Support Branch	2,677,337	3,334,200	3,636,700	3,603,700	(33,000)

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
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
Personnel Services	246,745	317,600	333,400	340,300	6,900
4160 - Meals; Mileage & Uniform Allowances	988	0	0	0	0
Materials, Supplies and Services	988	0	0	0	0
Total Maintenance Support Branch	247,733	317,600	333,400	340,300	6,900

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
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
Personnel Services	1,653,810	2,045,700	2,113,000	2,118,700	5,700
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
6050 - Equipment (under \$5,000)	5,620	11,570	12,800	11,100	(1,700)
Materials, Supplies and Services	689,139	1,410,570	1,063,800	1,062,100	(1,700)
Total Maintenance Support Branch	2,342,949	3,456,270	3,176,800	3,180,800	4,000

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
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
Personnel Services	448,842	459,400	486,900	494,800	7,900
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
Materials, Supplies and Services	17,910	34,230	34,180	45,000	10,820
Total Maintenance Support Branch	466,752	493,630	521,080	539,800	18,720

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
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
Personnel Services	4,497,068	5,327,900	5,885,300	6,180,400	295,100
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)
Materials, Supplies and Services	3,583,889	700,400	443,600	412,950	(30,650)
1270 - General Plant & Equip (over \$5,000)	608,932	0	20,000	0	(20,000)
Equipment	608,932	0	20,000	0	(20,000)
Total Metropolitan Field Services District	8,689,889	6,028,300	6,348,900	6,593,350	244,450

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
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
Personnel Services	81,100	96,100	102,600	102,700	100
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
Materials, Supplies and Services	2,624	1,000	5,000	5,000	0
1270 - General Plant & Equip (over \$5,000)	0	0	20,000	0	(20,000)
Equipment	0	0	20,000	0	(20,000)
Total Administration Section	83,725	97,100	127,600	107,700	(19,900)

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
4110 - Salaries & Wages	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
Personnel Services	1,580,940	2,238,600	2,453,000	2,632,100	179,100
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)
Materials, Supplies and Services	99,810	89,200	155,450	118,950	(36,500)
1270 - General Plant & Equip (over \$5,000)	8,490	0	0	0	0
Equipment	8,490	0	0	0	0
Total Administration Section	1,689,240	2,327,800	2,608,450	2,751,050	142,600

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
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
Personnel Services	504,078	856,700	918,000	999,500	81,500
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
Materials, Supplies and Services	22,675	31,900	29,800	34,600	4,800
1270 - General Plant & Equip (over \$5,000)	0	0	0	8,000	8,000
Equipment	0	0	0	8,000	8,000
Total Administration Section	526,753	888,600	947,800	1,042,100	94,300

Budget Highlights

**Board of Water Supply
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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
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
Personnel Services	1,084,741	1,088,100	1,230,600	1,269,800	39,200
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)
Materials, Supplies and Services	31,919	30,100	45,910	26,500	(19,410)
Total Administration Section	1,116,660	1,118,200	1,276,510	1,296,300	19,790

Budget Highlights

**Board of Water Supply
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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
4110 - Salaries & Wages	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
Personnel Services	1,559,430	1,841,900	1,923,700	2,149,100	225,400
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
Materials, Supplies and Services	35,296	34,650	49,000	68,500	19,500
1270 - General Plant & Equip (over \$5,000)	0	0	0	0	0
Equipment	0	0	0	0	0
Total Administration Section	1,594,726	1,876,550	1,972,700	2,217,600	244,900

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
4110 - Salaries & Wages	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
Personnel Services	4,971,531	6,381,300	5,416,300	6,052,900	636,600
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
Materials, Supplies and Services	536,888	1,068,700	2,044,200	2,059,300	15,100
1270 - General Plant & Equip (over \$5,000)	0	81,000	250,000	250,000	0
Equipment	0	81,000	250,000	250,000	0
Total CP - Capital Projects	5,508,419	7,531,000	7,710,500	8,362,200	651,700

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
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
Personnel Services	523,505	568,600	581,300	588,000	6,700
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
Materials, Supplies and Services	232,199	659,200	1,649,900	1,684,900	35,000
1270 - General Plant & Equip (over \$5,000)	0	8,000	250,000	250,000	0
Equipment	0	8,000	250,000	250,000	0
Total Administration	755,704	1,235,800	2,481,200	2,522,900	41,700

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
4110 - Salaries & Wages	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
Personnel Services	881,276	1,165,800	1,002,500	1,105,200	102,700
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
Materials, Supplies and Services	3,467	16,500	5,200	5,200	0
Total Design & Plans Review	884,743	1,182,300	1,007,700	1,110,400	102,700

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
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
Personnel Services	2,425,073	3,221,400	2,523,600	2,983,000	459,400
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
Materials, Supplies and Services	39,771	94,250	72,700	74,200	1,500
1270 - General Plant & Equip (over \$5,000)	0	24,000	0	0	0
Equipment	0	24,000	0	0	0
Total Construction	2,464,844	3,339,650	2,596,300	3,057,200	460,900

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)
Personnel Services	601,215	739,600	686,900	692,300	5,400
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
Materials, Supplies and Services	11,865	34,050	34,700	13,600	(21,100)
1270 - General Plant & Equip (over \$5,000)	0	24,000	0	0	0
Equipment	0	24,000	0	0	0
Total Support	613,081	797,650	721,600	705,900	(15,700)

Budget Highlights

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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
4110 - Salaries & Wages	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
Personnel Services	540,462	685,900	622,000	684,400	62,400
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
Materials, Supplies and Services	249,586	264,700	281,700	281,400	(300)
1270 - General Plant & Equip (over \$5,000)	0	25,000	0	0	0
Equipment	0	25,000	0	0	0
Total Mechanical and Electrical	790,049	975,600	903,700	965,800	62,100

Budget Highlights

**Board of Water Supply
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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
4110 - Salaries & Wages	5,064,364	6,169,700	6,591,000	6,196,400	(394,600)
4120 - Overtime	951,266	697,000	673,000	843,000	170,000
4130 - Miscellaneous (Payroll)	6,678	57,800	150,000	55,800	(94,200)
Personnel Services	6,022,308	6,924,500	7,414,000	7,095,200	(318,800)
4160 - Meals, Mileage & Uniform Allowances	43,111	40,200	39,800	40,700	900
4250 - Other Contractual Services	694,386	635,900	608,800	707,800	99,000
4251 - Software Licenses and Maintenance	23,231	19,000	33,100	33,100	0
4287 - Printed forms	0	300	300	300	0
4270 - Professional Services	1,327,202	1,200,000	500,000	1,000,000	500,000
4410 - Gasoline	673,844	803,200	803,200	803,200	0
4430 - Miscellaneous Supplies	17,573	18,400	7,600	7,600	0
4440 - Motor Vehicle Parts & Accessories	414,818	452,000	452,000	452,000	0
4460 - Other Materials & Supplies	2,669,915	2,743,400	2,843,000	2,816,800	(26,200)
4470 - Parts and Accessories	770,075	732,000	546,800	600,000	53,200
4480 - Postage	88	0	0	0	0
4500 - Education and Training	4,632	54,750	50,600	45,250	(5,350)
4670 - Telemetering	211,296	240,000	210,000	200,000	(10,000)
4720 - Conference Travel & Expenses	2,480	17,200	22,100	12,200	(9,900)
4805 - Repair & Maint - Structures	297,575	40,000	44,000	54,000	10,000
4815 - Repair & Maint - Equipment	941,727	1,352,200	839,600	1,022,200	182,600
4910 - Miscellaneous Fees & Registration	3,111	3,500	14,600	5,500	(9,100)
8050 - Equipment (under \$5,000)	582,425	661,700	289,000	382,050	93,050
Materials, Supplies and Services	8,677,489	9,013,750	7,304,500	8,182,700	878,200
1270 - General Plant & Equip (over \$5,000)	4,565,284	6,012,800	5,729,300	3,897,700	(1,831,600)
Equipment	4,565,284	6,012,800	5,729,300	3,897,700	(1,831,600)
Total WSO - Water System Operations	19,265,081	21,951,050	20,447,800	19,175,600	(1,272,200)

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
4110 - Salaries & Wages	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
Personnel Services	470,810	462,900	486,300	536,700	50,400
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
Materials, Supplies and Services	1,374,178	1,262,900	551,300	1,044,100	492,800
Total Operations Administration	1,844,988	1,725,800	1,037,600	1,580,800	543,200

Budget Highlights

**Board of Water Supply
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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
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
Personnel Services	292,835	271,300	330,000	229,600	(100,400)
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
Materials, Supplies and Services	3,729,630	3,398,700	3,262,250	3,462,950	200,700
1270 - General Plant & Equip (over \$5,000)	0	40,000	3,200	0	(3,200)
Equipment	0	40,000	3,200	0	(3,200)
Total Plant Operations	4,022,465	3,710,000	3,595,450	3,692,550	97,100

Budget Highlights

Board of Water Supply
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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 Hoāeae 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
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)
Personnel Services	638,064	747,100	813,300	630,600	(182,700)
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
Materials, Supplies and Services	96,111	252,800	170,000	162,700	(7,300)
1270 - General Plant & Equip (over \$5,000)	0	30,000	0	0	0
Equipment	0	30,000	0	0	0
Total District 1 Leeward West Section	734,175	1,029,900	983,300	793,300	(190,000)

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 Mokeleia 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)
Personnel Services	902,456	828,000	923,700	911,400	(12,300)
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)
Materials, Supplies and Services	259,006	286,500	201,000	175,600	(25,400)
1270 - General Plant & Equip (over \$5,000)	18,174	0	0	0	0
Equipment	18,174	0	0	0	0
Total District 2 Central/Windward Section	1,179,636	1,114,500	1,124,700	1,087,000	(37,700)

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
4110 - Salaries & Wages	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
Personnel Services	542,547	710,000	786,700	916,100	129,400
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
Materials, Supplies and Services	257,359	237,200	191,900	202,400	10,500
1270 - General Plant & Equip (over \$5,000)	22,304	70,000	10,000	10,000	0
Equipment	22,304	70,000	10,000	10,000	0
Total District 3 Metropolitan Section	822,209	1,017,200	988,600	1,128,500	139,900

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
4110 - Salaries & Wages	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)
Personnel Services	488,365	811,400	856,100	780,300	(75,800)
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
Materials, Supplies and Services	148,446	258,100	148,200	205,700	57,500
Total District 4 Leeward East Section	636,811	1,069,500	1,004,300	986,000	(18,300)

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
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
Personnel Services	749,305	842,400	843,200	825,700	(17,500)
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)
Materials, Supplies and Services	7,344	48,000	15,900	15,200	(700)
Total Control Center	756,649	890,400	859,100	840,900	(18,200)

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
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
Personnel Services	409,164	477,900	493,400	423,500	(69,900)
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)
Materials, Supplies and Services	86,739	162,800	88,200	126,400	38,200
1270 - General Plant & Equip (over \$5,000)	0	10,000	10,000	0	(10,000)
Equipment	0	10,000	10,000	0	(10,000)
Total Technical Services	495,904	650,700	591,600	549,900	(41,700)

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
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
Personnel Services	202,679	316,400	309,300	361,400	52,100
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
Materials, Supplies and Services	865,891	808,850	553,750	568,700	14,950
1270 - General Plant & Equip (over \$5,000)	40,211	313,000	47,500	65,500	18,000
Equipment	40,211	313,000	47,500	65,500	18,000
Total Telecommunications	1,108,780	1,438,250	910,550	995,600	85,050

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)
Personnel Services	1,326,083	1,457,100	1,572,000	1,479,900	(92,100)
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
Materials, Supplies and Services	1,577,683	1,758,100	1,752,000	1,758,950	6,950
1270 - General Plant & Equip (over \$5,000)	4,484,595	5,549,800	5,658,600	3,822,200	(1,836,400)
Equipment	4,484,595	5,549,800	5,658,600	3,822,200	(1,836,400)
Total Automotive	7,388,362	8,765,000	8,982,600	7,061,050	(1,921,550)

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
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)
Materials, Supplies and Services	275,102	539,800	370,000	460,000	90,000
Total Ocean Cooling	275,102	539,800	370,000	460,000	90,000

Budget Highlights

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

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
4110 - Salaries & Wages	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)
Personnel Services	3,423,238	3,680,500	4,118,900	4,067,900	(51,000)
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
Materials, Supplies and Services	10,723,492	12,083,233	11,049,394	11,466,168	416,774
1270 - General Plant & Equip (over \$5,000)	542,113	415,000	335,000	295,000	(40,000)
Equipment	542,113	415,000	335,000	295,000	(40,000)
Total IT - Information Technology	14,688,842	16,178,733	15,503,294	15,829,068	325,774

Notes

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

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
4110 - Salaries & Wages	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
Personnel Services	389,864	379,200	423,400	444,000	20,600
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
Materials, Supplies and Services	197,244	304,020	107,400	180,900	73,500
Total IT Administration	587,108	683,220	530,800	624,900	94,100

Budget Highlights

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

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
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
Personnel Services	931,197	1,053,500	1,199,600	1,200,600	1,000
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
Materials, Supplies and Services	3,516,793	4,681,088	2,361,291	2,499,878	138,587
Total Application Systems Development	4,447,991	5,734,588	3,560,891	3,700,478	139,587

Budget Highlights

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

IT - Information Technology

5835 - Technical Projects

Section's Activity

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

Account	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
Personnel Services	753,395	862,800	871,800	936,900	65,100
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)
Materials, Supplies and Services	798,209	816,884	1,485,900	1,243,100	(242,800)
1270 - General Plant & Equip (over \$5,000)	24,452	15,000	15,000	15,000	0
Equipment	24,452	15,000	15,000	15,000	0
Total Technical Engineering Projects	1,576,056	1,694,684	2,372,700	2,195,000	(177,700)

Budget Highlights

**Board of Water Supply
Operating Budget
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
4110 - Salaries & Wages	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)
Personnel Services	1,348,782	1,385,000	1,624,100	1,486,400	(137,700)
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
Materials, Supplies and Services	6,211,246	6,281,241	7,094,803	7,542,290	447,487
1270 - General Plant & Equip (over \$5,000)	517,660	400,000	320,000	280,000	(40,000)
Equipment	517,660	400,000	320,000	280,000	(40,000)
Total Operations Support	8,077,688	8,066,241	9,038,903	9,308,690	269,787

Budget Highlights

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

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

Notes

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

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
4110 - Salaries & Wages	332,967	348,000	341,300	369,800	28,500
4120 - Overtime	164	200	500	200	(300)
4130 - Miscellaneous (Payroll)	0	0	0	0	0
Personnel Services	333,151	348,200	341,800	370,000	28,200
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)
Materials, Supplies and Services	946,038	239,500	284,500	376,700	92,200
1270 - General Plant & Equip (over \$5,000)	0	0	0	0	0
Equipment	0	0	0	0	0
Total Finance Administration	1,279,189	587,700	626,300	746,700	120,400

Budget Highlights

Board of Water Supply
Operating Budget
Fiscal Year 2022

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
4110 - Salaries & Wages	80,464	96,600	96,600	100,600	4,000
4120 - Overtime	0	2,000	2,000	1,000	(1,000)
Personnel Services	80,464	98,600	98,600	101,600	3,000
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
Materials, Supplies and Services	1,951,982	1,968,600	2,747,200	2,617,000	(130,200)
Total Treasury	2,032,446	2,067,200	2,845,800	2,718,600	(127,200)

Budget Highlights

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

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
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
Personnel Services	1,083,930	1,391,000	1,245,500	939,100	(306,400)
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)
Materials, Supplies and Services	22,051	35,100	34,100	28,300	(5,800)
1270 - General Plant & Equip (over \$5,000)	36,300	36,000	0	0	0
Equipment	36,300	36,000	0	0	0
Total Rev	1,142,281	1,462,100	1,279,600	967,400	(312,200)

Budget Highlights

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

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
Personnel Services	581,553	740,300	688,200	734,800	46,600
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)
Materials, Supplies and Services	2,891	9,000	3,800	900	(2,900)
Total General Accounting	584,445	749,300	692,000	735,700	43,700

Budget Highlights

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

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
4110 - Salaries & Wages	100,956	194,400	194,800	215,500	20,700
Personnel Services	100,956	194,400	194,800	215,500	20,700
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)
Materials, Supplies and Services	0	8,500	300	500,000	499,700
Total Fiscal Services	100,956	202,900	195,100	715,500	520,400

Budget Highlights

**Board of Water Supply
Operating Budget
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
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)
Personnel Services	71,615	71,700	71,900	75,400	3,500
4270 - Professional Services	0	0	100,000	0	(100,000)
Materials, Supplies and Services	0	0	100,000	0	(100,000)
Total Systems Accounting	71,615	71,700	171,900	75,400	(96,500)

Budget Highlights

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

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
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-Emplymnt 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)
Departmental Fixed Charges	51,288,910	51,108,000	53,909,000	53,651,008	(257,992)
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
Debt Service	22,588,660	22,382,000	24,214,000	29,588,000	5,374,000
Total Fixed Charges and Debt Service	73,877,570	73,490,000	78,123,000	83,239,008	5,116,008

Budget Highlights

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PART II

CAPITAL IMPROVEMENT PROGRAM BUDGET

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Board of Water Supply
Capital Improvement Program
FY 2022

Summary by Categories	Operating Fund (1)	Operating Fund - SRF Eligible (2)	Special Expendable Fund (3)	Improvement Fund (4)	Total
I. Research and Development	6,900,000	-	-	-	6,900,000
II. Renewal and Replacement					
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
Category II - sub-total	25,375,000	10,000,000	-	86,100,000	121,475,000
III. Capacity Expansion					
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
Category III - sub-total	-	4,300,000	18,900,000	-	23,200,000
Total - Categories I - III	32,275,000	14,300,000	18,900,000	86,100,000	151,575,000
Construction Cost Index Account	2,421,000	1,430,000	1,700,000	7,250,000	12,801,000
Contract Adjustment Account	15,600,000	-	-	-	15,600,000
Capital Improvement Program - Total	50,296,000	15,730,000	20,600,000	93,350,000	179,976,000

(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

Board of Water Supply
Capital Improvement Program
FY 2022

				Operating Fund	Operating Fund - SRF	Special Expendable Fund	Improvement Funds	Total
<u>I. Research and Development</u>								
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).	CP Const	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
Total Category I - Research and Development				6,900,000	-	-	-	6,900,000

Board of Water Supply
Capital Improvement Program
FY 2022

				Operating Fund	Operating Fund - SRF	Special Expendable Fund	Improvement Funds	Total
<u>II. Renewal and Replacement</u>								
A. Pumps								
4.	Waihee Line Booster: Replace Pumping Units	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.	CP-ME Const	-	-	-	5,100,000	5,100,000

Board of Water Supply
 Capital Improvement Program
 FY 2022

				Operating Fund	Operating Fund - SRF	Special Expendable Fund	Improvement Funds	Total
5. Makaha Shaft Tunnel Rehabilitation	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.	CP-S	Const	-	-	-	7,500,000	7,500,000

Board of Water Supply
Capital Improvement Program
FY 2022

				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.	CP-ME	Const	-	4,000,000	-	-	4,000,000
7. Waipio Heights Wells and Wells I 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.	CP-ME	Const	-	6,000,000			6,000,000

Board of Water Supply
Capital Improvement Program
FY 2022

				Operating Fund	Operating Fund - SRF	Special Expendable Fund	Improvement Funds	Total
8. Waialae Iki Booster No. 1 Relocation	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.	CP-ME	Const	-	-	-	9,500,000	9,500,000
9. Kamaile Wells Renovation, Drainage Improvements and Control Building Repairs, and Kamaile Plantation Wells Sealing	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.	CP-S	Const	-	-	-	3,400,000	3,400,000
10. Pump Renewal and Replacement	Renewal and replacement of various BWS pumps and plant facilities.	CP-ME	Const	3,500,000	-	-	-	3,500,000

Board of Water Supply
Capital Improvement Program
FY 2022

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

Board of Water Supply
Capital Improvement Program
FY 2022

				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.	CP-ME	P&E	510,000	-	-	-	510,000
14. Pearl City Booster No. 3 MCC Replacement	Replace MCC, SCADA system, and all electrical components and appurtenances.	CP-ME	P&E	320,000	-	-	-	320,000
15. Pump Renewal and Replacement	Renewal and replacement of various BWS pumps and plant facilities.	CP-ME	P&E	100,000	-	-	-	100,000

Board of Water Supply
Capital Improvement Program
FY 2022

				Operating Fund	Operating Fund - SRF	Special Expendable Fund	Improvement Funds	Total
Pumps Total				5,565,000	10,000,000	-	25,500,000	41,065,000
B. Reservoirs								
16. Wahiawa 1361 Reservoir No. 1 Demolition	Demolish existing concrete reservoir and appurtenances.	CP-D	P&E	100,000	-	-	-	100,000
Reservoirs Total				100,000	-	-	-	100,000

Board of Water Supply
Capital Improvement Program
FY 2022

				Operating Fund	Operating Fund - SRF	Special Expendable Fund	Improvement Funds	Total
C. Pipelines								
17. Keolu Hills Water System Improvements, Part II	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 Holoholo Street; along Keolu Drive, from Akalani Loop to Akahai Street; along Akahai Street, from Keolu Drive to Akamai Street; along Akaiki Street, from Akahai Street to Akamai Street; and along Halula Place, from Akumu Street to end - approx. 4,270 lin. ft.	CP-D	Const	-	-	-	8,500,000	8,500,000

Board of Water Supply
 Capital Improvement Program
 FY 2022

		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.					

Board of Water Supply
Capital Improvement Program
FY 2022

				Operating Fund	Operating Fund - SRF	Special Expendable Fund	Improvement Funds	Total
18. North School Street Water System Improvements	Install 16-inch mains and appurtenances along North School Street, from Kamehameha IV Road to Houghtailing Street - approx. 4,510 lin. ft. 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 Waikoa Road; along Waikoa Road, from Amelia Street to Martin Street; along Martin Street,	CP-D	Const	-	-	-	11,500,000	11,500,000

Board of Water Supply
 Capital Improvement Program
 FY 2022

	Operating Fund	Operating Fund - SRF	Special Expendable Fund	Improvement Funds	Total
18. North School Street Water System Improvements (cont.)	from North School Street to Waikoa 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.				

Board of Water Supply
Capital Improvement Program
FY 2022

				Operating Fund	Operating Fund - SRF	Special Expendable Fund	Improvement Funds	Total
19. Kalama Valley Water System Improvements, Part II	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.	CP-D	Const	-	-	-	11,200,000	11,200,000

Board of Water Supply
Capital Improvement Program
FY 2022

		Operating Fund	Operating Fund - SRF	Special Expendable Fund	Improvement Funds	Total
<p>19. Kalama Valley Water System Improvements, Part II (cont.)</p>	<p>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;</p>					

Board of Water Supply
Capital Improvement Program
FY 2022

	Operating Fund	Operating Fund - SRF	Special Expendable Fund	Improvement Funds	Total
<p>19. Kalama Valley Water System Improvements, Part II (cont.)</p>	<p>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.</p>				

Board of Water Supply
Capital Improvement Program
FY 2022

				Operating Fund	Operating Fund - SRF	Special Expendable Fund	Improvement Funds	Total
20. Palolo Water System Improvements, Part III	Install 16-inch mains and appurtenances along Palolo Avenue, from Carlos Long Street to Palolo Place; and along 10th Avenue, from Palolo Place to Makanui Place - approx. 1,410 lin. ft. 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 to end;	CP-D	Const	-	-	-	10,500,000	10,500,000

Board of Water Supply
Capital Improvement Program
FY 2022

				Operating Fund	Operating Fund - SRF	Special Expendable Fund	Improvement Funds	Total
20. Palolo Water System Improvements, Part III (cont.)	along Makanui Place, from 10th Avenue to end; along Holomua Place, from Makanui 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.	CP-D	Const	-	-	-	2,000,000	2,000,000

Board of Water Supply
Capital Improvement Program
FY 2022

				Operating Fund	Operating Fund - SRF	Special Expendable Fund	Improvement Funds	Total
22. Waiomao Homestead Road 8-Inch Main	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
23. Kailua Road 8-Inch Main	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
24. Water Sampling Stations at Various Locations	Install water sampling stations at various locations.	CP-S	Const	500,000	-	-	-	500,000
25. New Service Lateral Installations at Various Location	Install new service laterals at various locations.	FO	Const	1,750,000	-	-	-	1,750,000
		FO	P&E	250,000	-	-	-	250,000
26. Water Main Installation & Replacement	Install and replace water mains at various locations.	CP	Const	100,000	-	-	-	100,000

Board of Water Supply
Capital Improvement Program
FY 2022

				Operating Fund	Operating Fund - SRF	Special Expendable Fund	Improvement Funds	Total
27. Nuuanu Pali Drive and Old Pali Road Area Water System Improvements	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 Waokanaka Street, from Pali Highway (near Nuuanu Booster No. 2) to FH M07711; and along Waokanaka Street, from 3666 Waokanaka Street to Waokanaka 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.	CP	P&E	-	-	-	750,000	750,000

Board of Water Supply
Capital Improvement Program
FY 2022

				Operating Fund	Operating Fund - SRF	Special Expendable Fund	Improvement Funds	Total
28. Thomas Square 20- Inch Main Relocation	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.	CP-D	P&E	-	-	-	600,000	600,000
29. Water System Improvements at Various Locations	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
30. Service Lateral Replacement at Various Locations	Topographic Survey for the service lateral replacement at various locations.	CP-S	P&E	150,000	-	-	-	150,000

Board of Water Supply
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				Operating Fund	Operating Fund - SRF	Special Expendable Fund	Improvement Funds	Total
31. Galvanized Pipeline Replacement	Replace galvanized mains at various locations.	WQ	P&E	100,000	-	-	-	100,000
32. Water Main Installation & Replacement	Install and replace water mains at various locations.	CP	P&E	100,000	-	-	-	100,000
Pipelines Total				2,950,000	-	-	58,950,000	61,900,000
D. Treatment								
33. GAC Interior Corrosion Control at Various Locations	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
Treatment Total				3,500,000	-	-	-	3,500,000

Board of Water Supply
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				Operating Fund	Operating Fund - SRF	Special Expendable Fund	Improvement Funds	Total
E. Facilities								
34. Beretania IT Data Center Renovation	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.	CP-S	Const	1,500,000	-	-	-	1,500,000
35. Storm Water Management Plan Improvements at Beretania Complex and Heeia Corporation Yard	Install improvements to eliminate pollutant runoff from the Beretania Complex and Heeia Corporation Yard.	CP-S	Const	1,000,000	-	-	-	1,000,000
36. Beretania Public Service Building 4th Floor Renovation	Renovate the 4th floor to create multipurpose rooms.	CP-S	Const	1,000,000	-	-	-	1,000,000

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

Board of Water Supply
Capital Improvement Program
FY 2022

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

Board of Water Supply
Capital Improvement Program
FY 2022

				Operating Fund	Operating Fund - SRF	Special Expendable Fund	Improvement Funds	Total
46. Professional Services for BWS Projects	Obtain services of archaeologists, botanists, environmental engineers, water quality labs, planners, government agencies and others.	CP	P&E	300,000	-	-	-	300,000
Facilities Total				13,260,000	-	-	1,650,000	14,910,000
Total Category II - Renewal and Replacement				25,375,000	10,000,000	-	86,100,000	121,475,000
III. Capacity Expansion								
A. Pumps								
47. Pacific Heights Booster No. 1	Land acquisition for new Pacific Heights Booster No. 1 to eliminate cross-country water main between Jack Lane and the Pacific Heights 578 Reservoir.	Land	Land	-	-	100,000	-	100,000
Pumps Total				-	-	100,000	-	100,000

Board of Water Supply
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FY 2022

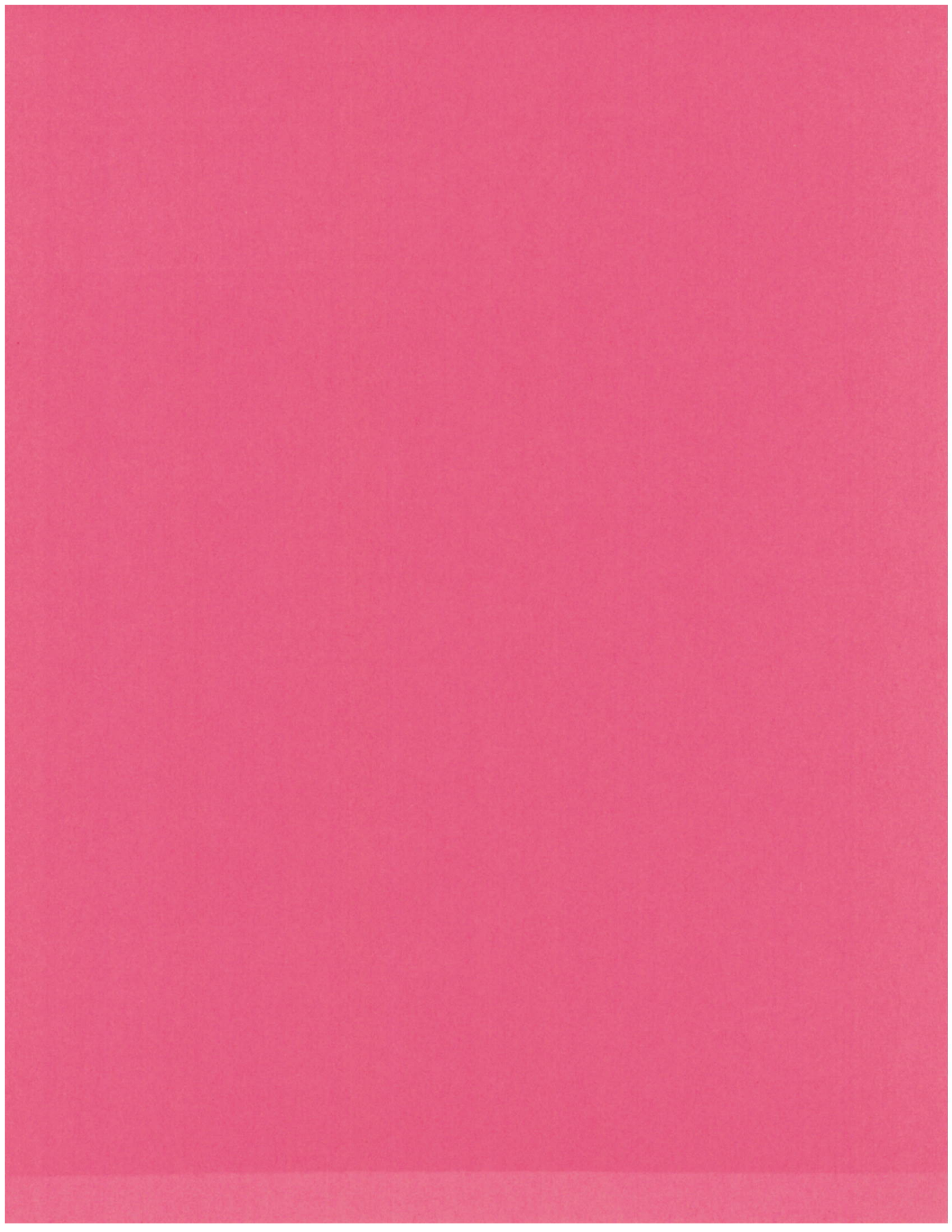
				Operating Fund	Operating Fund - SRF	Special Expendable Fund	Improvement Funds	Total
B. Reservoirs								
Reservoirs Total				-	-	-	-	-
C. Pipelines								
48. Honouliuli WWTP Expansion 16-Inch Main	Install 16-inch mains and appurtenances along Roosevelt Avenue from Renton Road to Geiger Road and Kamakana Street - approx. 4,500 lin. ft.	WR	Const	-	4,300,000			4,300,000
Pipelines Total				-	4,300,000	-	-	4,300,000
D. Treatment								
49. Millilani 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
Treatment Total				-	-	800,000	-	800,000

Board of Water Supply
Capital Improvement Program
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				Operating Fund	Operating Fund - SRF	Special Expendable Fund	Improvement Funds	Total
E. Facilities								
50. Kalaeloa Sea Water Desalination Facility	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.	WR	Const	-	-	17,000,000	-	17,000,000
		WR	P&E	-	-	1,000,000	-	1,000,000
Facilities Total				-	-	18,000,000	-	18,000,000
Total Category III - Capacity Expansion				-	4,300,000	18,900,000	-	23,200,000

Board of Water Supply
Capital Improvement Program
FY 2022

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



REGULAR MEETING

Chair Andaya called the Regular Meeting to order at 2:45 PM.

APPROVAL OF MEETING Approval of the Minutes of the Regular Meeting Held on April 26, 2021.

MOTION TO APPROVE Max Sword and Jade Butay motioned and seconded, respectively, to approve the Minutes of the Regular Meeting of April 26, 2021.

In lieu of a roll call vote, Chair Andaya requested a voice vote on the motion and requested that Board Members in favor of the motion say "Aye." The Board members present responded with a verbal "Aye." Chair Andaya then inquired if any Board Members would like to object or vote "Nay" on the motion. There were no objections or "Nay" votes. Chair Andaya announced that the motion was unanimously carried.

THE MINUTES OF THE REGULAR MEETING HELD ON APRIL 26, 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		

APPROVAL OF MEETING

Approval of the Minutes of the Budget Workshop Meeting Held on May 10, 2021.

MOTION TO APPROVE

Na'alehu Anthony and Kapua Sproat motioned and seconded, respectively, to approve the Minutes of the Budget Workshop Meeting of May 10, 2021.

Chair Andaya asked if there was any discussion on the minutes from the Board Members. There were no comments or discussion from the Board Members. Chair Andaya asked Mr. Norstrom, is there was anyone to testify by telephone. Mr. Norstrom responded there were no telephone testifiers.

In lieu of a roll call vote, Chair Andaya requested a voice vote on the motion and requested that Board Members in favor of the motion say "Aye." The Board members present responded with a verbal "Aye." Chair Andaya then inquired if any Board Members would like to object or vote "Nay" on the motion. There were no objections or "Nay" votes. Chair Andaya announced that the motion was unanimously carried.

THE MINUTES OF THE BUDGET WORKSHOP 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		

"May 24, 2021

ADOPTION OF
RESOLUTION
NO. 923, 2021,
ADOPTING THE
OPERATING AND
CAPITAL
IMPROVEMENT
PROGRAM
BUDGET FOR
THE FISCAL
YEAR 2021-2022
APPROPRIATING
FUNDS THEREFOR

Chair and Members
Board of Water Supply
City and County of Honolulu
Honolulu, Hawaii

Chair and Members:

Subject: Adoption of Resolution No. 923, 2021, Adopting the Operating and Capital Improvement Program Budget for the Fiscal Year 2021-2022 and Appropriating Funds Therefor

We recommend adoption of the proposed Operating and Capital Improvement Program Budget for the fiscal year beginning July 1, 2021 and ending June 30, 2022.

A Public Hearing to consider the proposed budget, as required by the City Charter, was held on May 24, 2021. The affidavit attesting to the publication of the Public Hearing notice is attached.

We further recommend adoption of the attached Resolution No. 923, 2021, appropriating funds for the Operating and Capital Improvement Program Budget for Fiscal Year 2021-2022, as follows:

1. The sum of \$215,140,447 from the Operating Fund for Operating Budget expenditures.
2. The sum of \$66,026,000 from the Operating Fund, \$93,350,000 from the Improvement Fund, and \$20,600,000 from the Special Expendable Fund for Capital Improvement Program Budget expenditures.

Respectfully submitted,

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

Attachment

DISCUSSION:

Raelynn Nakabayashi, Executive Assistant I, Executive Support Office and Jason Takaki, Program Administrator, Capital Projects Division gave the report.

MOTION TO
ADOPT

Ray Soon and Max Sword motioned and seconded, respectively, the Adoption of Resolution No. 923, 2021, Adopting the Operating and Capital Improvement Program Budget for the Fiscal Year 2021-2022 and Appropriating Funds Therefor.

Chair Andaya asked if there was any discussion on the resolution from the Board Members. There were no comments or discussion from the Board Members. Chair Andaya asked Mr. Norstrom, is there was anyone to testify by telephone. Mr. Norstrom responded there were no telephone testifiers.

Chair Andaya requested that Board Secretary, Ms. Joy Cruz-Achui conduct the roll call vote.

Ms. Cruz-Achui conducted a roll call vote: Vice Chair Kapua Sproat, aye; Board Member Ray Soon, aye; Board Member Max Sword, aye; Board Member Na'alehu Anthony, aye; Board Member Jade Butay, aye; Board Member Roger Babcock, aye; and Chair Bryan Andaya, aye.

Ms. Cruz-Achui announced that the motion passed with seven ayes.

ADOPTION OF RESOLUTION 923, 2021, ADOPTING THE OPERATING AND CAPITAL IMPROVEMENT BUDGET FOR THE FISCAL YEAR 2021-2022 AND APPROPRIATING FUNDS THEREFOR, ADOPTED MAY 24, 2021			
	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		

BOARD OF WATER SUPPLY
CITY AND COUNTY OF HONOLULU

RESOLUTION NO. 923, 2021

**RESOLUTION ADOPTING THE OPERATING AND CAPITAL IMPROVEMENT
PROGRAM BUDGET FOR FISCAL YEAR 2022 AND APPROPRIATING FUNDS
THEREFOR**

BE IT RESOLVED by the Board of Water Supply, City and County of Honolulu, State of Hawaii, that in accordance with the provisions of Article VII of the Revised Charter of the City and County of Honolulu, the sum of TWO HUNDRED FIFTEEN MILLION ONE HUNDRED FORTY THOUSAND FOUR HUNDRED FORTY-SEVEN DOLLARS (\$215,140,447) be and the same is hereby appropriated out of all monies placed to the credit of the Operating Fund for expenditures of the Board of Water Supply Operating Budget for the fiscal year beginning July 1, 2021 and ending June 30, 2022 as follows:

OPERATING BUDGET

OPERATING FUND.....\$215,140,447

BE IT FURTHER RESOLVED that the said Operating Fund appropriation may be increased to the extent that any State or Federal environmental law, regulation, and/or electric power cost, causes the Board of Water Supply to exceed the cost thresholds as specified in the Schedule of Rates and Charges for the Furnishing of Water and Water Service; and

BE IT FURTHER RESOLVED that the sum of SIXTY-SIX MILLION TWENTY-SIX THOUSAND DOLLARS (\$66,026,000) be and the same is hereby appropriated out

of all monies placed to the credit of the Operating Fund, the sum of NINETY-THREE MILLION THREE HUNDRED FIFTY THOUSAND DOLLARS (\$93,350,000) be and the same is hereby appropriated out of all monies placed to the credit of the Improvement Fund, and the sum of TWENTY MILLION SIX HUNDRED THOUSAND DOLLARS (\$20,600,000) be and the same is hereby appropriated out of all monies placed to the credit of the Special Expendable Fund, for a total of ONE HUNDRED SEVENTY-NINE MILLION NINE HUNDRED SEVENTY-SIX THOUSAND DOLLARS (\$179,976,000) for expenditures of the Board of Water Supply Capital Improvement Program Budget for the fiscal year beginning July 1, 2021 and ending June 30, 2022, as follows:

CAPITAL IMPROVEMENT PROGRAM BUDGET

OPERATING FUND.....	\$ 66,026,000
IMPROVEMENT FUND.....	\$ 93,350,000
SPECIAL EXPENDABLE FUND.....	\$ 20,600,000
TOTAL.....	\$ 179,976,000

BE IT FURTHER RESOLVED that the Manager and Chief Engineer, at his discretion, shall have the authority to adjust the method of funding the Capital Improvement Program Budget and that the Manager and Chief Engineer may increase or decrease the amount appropriated out of the Operating Fund, Improvement Fund, and Special Expendable Fund in the Capital Improvement Program Budget, provided that the total consolidated appropriation of the Operating Budget and Capital Improvement Program Budget remains the same; and

BE IT FINALLY RESOLVED that revenue bonds of the Board of Water Supply, City and County of Honolulu, general obligation bonds of the City and County of Honolulu, commercial paper or other alternative forms of financing deemed appropriate by the Board of Water Supply, are authorized for issuance to yield the amount that may be necessary to finance projects listed in the Board of Water Supply Capital Improvement Program Budget and designated to be financed from the Improvement Fund and such additional amounts as may be deemed necessary to pay the expenses of issuance of such bonds or other financing; provided that the Board of Water Supply shall by resolution, and the City Council of the City and County of Honolulu for general obligation bonds shall by ordinance, determine the form, date, amount, denomination, and maturity of the bonds herein authorized.

ADOPTED:



BRYAN P. ANDAYA
Chair

Honolulu, Hawaii
May 24, 2021

ADOPTION OF RESOLUTION NO. 923, 2021, ADOPTING THE OPERATING AND CAPITAL IMPROVEMENT PROGRAM BUDGET FOR THE FISCAL YEAR 2021-2022 AND APPROPRIATING FUNDS THEREFOR, ADOPTED ON MAY 24, 2021			
	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		

“May 24, 2021

**ADOPTION OF
RESOLUTION
NO. 924, 2021,
REAFFIRMING
THE PROTECTION
OF OAHU'S
GROUNDWATER
AQUIFERS
FROM FUEL
CONTAMINATION**

**Chair and Members
Board of Water Supply
City and County of Honolulu
Honolulu, Hawaii**

Chair and Members:

**Subject: Adoption of Resolution No. 924, 2021, Reaffirming the
Protection of Oahu's Groundwater Aquifers from Fuel
Contamination**

We submit for your consideration Resolution No. 924, 2021 reaffirming the protection of Oahu's groundwater aquifers from fuel contamination.

On May 7, 2021, the Navy reported less than 1,000 gallons of jet fuel leaked from the Red Hill Bulk Fuel Storage Facility. In January 2014 the Red Hill facility leaked 27,000 gallons of fuel. In response this Board adopted Resolutions 851,2015 and 860,2015 in February and September 2015 respectively supporting the installation of tank-within-a-tank secondary containment and no more fuel contamination of Oahu's groundwater. Several Navy studies document fuel leaks dating back to 1947; the tanks' steel lining wearing from corrosion; the groundwater underneath the tanks is contaminated with fuel chemicals; and the risks of additional fuel releases in the future from a vintage World War II facility that stores more 180 million gallons of fuel 100-feet above a sole-source drinking water aquifer.

Oahu's drinking water aquifer is a high-quality pristine water resource held in trust and to be protected for the people pursuant to the Hawaii State Constitution. This resource should be preserved, kept pristine and protected now and into the future for the sake of our keiki o ka aina.

The proposed Resolution before you today reaffirms the need to protect our drinking water aquifers from fuel contamination and urges the Navy to take swift action to install secondary containment or relocate the fuel away from the aquifer and we ask the Board for your approval of this Resolution.

Respectfully submitted,

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

Attachments

DISCUSSION: Erwin Kawata, Program Administrator, Water Quality Division gave the report.

Erwin Kawata introduced the proposed resolution to the Board. Mr. Kawata stated the purpose of the resolution is to reaffirm the protection of Oahu's groundwater in light of another fuel leak at the Red Hill fuel facility that was reported on May 7, 2021, by Hawaii News Now.

Manager Lau reminded the Board of the first reported fuel leak 7-years ago, in January 2014. The fuel leak occurred as the Navy refilled tank #5 after going through a 3-year renovation. On May 6, 2021, the Navy reported another fuel leak at Red Hill. This time the leak was not from the tank itself but from one of the piping that connects all the tanks together that brings the fuel from Pearl Harbor to the tanks. He explained that there are two tunnels, the upper tunnel, and the lower tunnel. The fuel leak may have come from Tank #20 on the 18" diameter pipeline that carries JP-5 jet fuel to the tank. The Navy explained at the May 20, 2021 Fuel Tank Advisory Committee (FTAC) meeting that two couplings on the 18" pipeline leaked. Manager Lau stated the BWS has no further details about the leak. However, the BWS considers an 18" diameter pipe a major pipeline used for transmission mains. The Navy publicly indicated the fuel leak happened at approximately 6:40 PM on May 6, 2021, that leaked up to 1,000 gallons of JP-5 jet fuel and may have recovered about 700 gallons. The Navy verbally reported the fuel leak to the Department of Health (DOH) on May 7, 2021, at approximately 7:30 AM. The DOH reported to the Fuel Tank Advisory Committee last week that vapor monitoring wells or test wells drilled under each tank, showed elevated levels of vapors after the leak occurred, which indicated the potential for fuel seeping down into the rocks under the tanks and not staying only in the lower access tunnel. Manager Lau stated this is all the BWS knows at this time and has requested more information. As the Board considers this resolution, the Manager noted that this time the leak was from the pipeline that is approximately three miles that brings fuel from Pearl Harbor to Red Hill.

Board Member Max Sword inquired if Resolution 924, 2021 can include the infrastructure surrounding the tanks since this leak was not from the tank.

Manager Lau replied that he made a good point. He explained the entire 20 fuel tanks at Red Hill are located 100' above the drinking water and aquifer that also include a pipeline that contains and transports fuel to and from the tanks to Pearl Harbor.

Mr. Kawata suggested that in the third paragraph of Resolution 924, 2021, the words "pipelines and appurtenances" could be added.

Manager Lau suggested "associated pipelines and infrastructure."

Board Member Roger Babcock, Jr. suggested that Resolution 924, 2021 should focus more on fuel leaks from piping and secondary containment of piping as a solution since the resolution supports secondary containment of the tanks.

Chair Andaya agreed with Board Member Babcock. Chair Andaya also added that Resolution 924, 2021 is intended to send a message to the Red Hill facility regulators but questioned if can be enforced.

Manager Lau confirmed and agreed to the statement Chair Andaya made. The BWS has no legal authority on the Red Hill facility, however, the BWS proposed resolution is a policy statement to DOH and Environmental Protection Agency (EPA) that the Board is not accepting any more fuel contamination in our drinking water aquifer, leaks from the facility, and the need for immediate action to protect our drinking water aquifer.

Board Member Soon asked if the Board adopted a resolution in 2015 why would a second resolution be necessary.

Manager Lau responded that since being involved in the Red Hill Administrative Order on Consent (AOC) discussions with our technical experts it became clear that the AOC did not cover the pipe systems that connect the facility to Pearl Harbor. At last week's FTAC meeting the Underground Storage Tank Program at EPA Region 9, Manager Lau asked Mr. Steve Linder if the entire facility is covered by the AOC considering that the pipelines are 78 years old at Red Hill. Manager Lau was glad to hear Mr. Linder state that the AOC does apply throughout the entire facility. There are three pipelines that carry fuel to and from the tanks to Pearl Harbor over a distance of about three miles. When adding the distances of the three pipelines together, there are over nine miles of pipeline that were installed from 1940 to 1943. The BWS understands that the Navy hasn't done any pipeline replacement.

Board Member Soon expressed support for the intent of the resolution but felt Board Member Babcock raised good points to consider and suggested coming back to Resolution 924, 2021 to give the staff time to revise and edit the resolution.

After the last information item of the Regular Board Meeting, the Board came back to action item #4 to discuss the proposed resolution as amended.

The discussion continued between Manager Lau and the Board members considering various revisions to the proposed resolution to improve the content's clarity and specificity. The changes considered included the amount of fuel stored at Red Hill, the inclusion of protections for pipelines and other infrastructure, and the grammatical correctness of the sentences. Board member Babcock offered a revision that was emailed to the staff to incorporate into the proposed resolution. The change was made and copies of the revised resolution were distributed to the Board members to further review and discuss any additional changes. The areas of the resolution that were revised were read aloud by Mr. Kawata as the Manager and Board carefully reviewed each change.

Mr. Kawata read aloud the final amended Resolution No. 924, 2021.

Manager Lau applauded the Board for amending Resolution No. 924, 2021 to require the Red Hill facility pipeline have secondary containment.

Chair Andaya asked if there were any objections to the changes to Resolution No. 924, 2021 as amended. There were no objections.

MOTION TO ADOPT

Max Sword and Kapua Sproat motioned and seconded, respectively, the Adoption of Resolution No. 924, 2021, Reaffirming the Protection of Oahu's Groundwater Aquifers for Fuel Contamination.

In lieu of a roll call vote, Chair Andaya requested a voice vote on the motion and requested that Board Members in favor of the motion say "Aye." The Board members present responded with a verbal "Aye." Chair Andaya then inquired if any Board Members would like to object or vote "Nay" on the motion. There were no objections or "Nay" votes. Chair Andaya announced that the motion was unanimously carried.

ADOPTION OF RESOLUTION 924, 2021, REAFFIRMING THE PROTECTION OF OAHU'S GROUNDWATER AQUIFERS FROM FUEL CONTAMINATION, ADOPTED MAY 24, 2021			
	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		

BOARD OF WATER SUPPLY
CITY AND COUNTY OF HONOLULU

RESOLUTION NO. 924, 2021

REAFFIRMING THE PROTECTION OF OAHU'S GROUNDWATER AQUIFERS
FROM FUEL CONTAMINATION

WHEREAS, Oahu's drinking water aquifer is a high quality pristine water resource held in trust and to be protected for the benefit of the people pursuant to Article XI, Sections 1 and 7 of the Hawaii State Constitution; and

WHEREAS, on January 13, 2014, the United States Navy reported a 27,000 gallon leak of jet fuel from its Red Hill Bulk Fuel Storage Facility; and

WHEREAS, the Red Hill facility contains more than 180 million gallons of fuel in twenty vintage World War II tanks, pipelines and infrastructure that are located 100-feet above a sole-source aquifer designated by the United States Environmental Protection Agency in 1987 as a major source of drinking water for Oahu residents and visitors; and

WHEREAS, on May 7, 2021 the Navy reported another leak at the Red Hill facility; and

WHEREAS, several Navy studies document fuel leaks dating back to 1947, the tanks' steel lining are wearing from corrosion; the groundwater underneath the tanks is contaminated with fuel chemicals; and risks of large catastrophic fuel releases; and

WHEREAS, pure water is our greatest need. For the sake of our keiki o ka aina, Oahu's groundwater resources should be preserved, kept pristine and protected now and into the future; and


WHEREAS, this Board adopted Resolutions 851,2015 and 860,2015 in February and September 2015 respectively supporting the installation of tank-within-a-tank secondary containment and no more fuel contamination of Oahu's groundwater now, therefore

BE IT RESOLVED by the Members of the Board of Water Supply, City and County of Honolulu, that this Board reaffirms the need to protect and preserve our water resources; and

BE IT FURTHER RESOLVED that the Board supports the department in taking the measures necessary to protect, defend and safeguard the groundwater; and

BE IT FINALLY RESOLVED that the Members of this Board reaffirm the unacceptability of additional fuel contamination of Oahu's groundwater aquifers by the Navy's facility and urges the Navy to install comprehensive measures to both prevent and contain future spills from tanks, pipelines and infrastructure via secondary containment or to relocate the fuel away from the groundwater aquifer.

ADOPTED:


Bryan Andaya
Chair

Honolulu, Hawaii
May 24, 2021

ADOPTION OF RESOLUTION NO. 924, 2021, REAFFIRMING THE PROTECTION OF OAHU'S GROUNDWATER AQUIFERS FROM FUEL CONTAMINATION, ADOPTED ON MAY 24, 2021			
	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		

"May 24, 2021

TO DETERMINE
THE ROLE OF
THE BOARD IN
STAFFING AND
SUCCESSION
PLANNING AND
CREATION OF
A PERMITTED
INTERACTION
GROUP PURSUANT
TO SECTION
HRS §92-2.5(b)

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

Chair and Members:

Subject: To Determine the Role of the Board in Staffing and
Succession Planning and Creation of a Permitted Interaction
Group Pursuant to HRS § 92-2.5(b)

The BWS continues to face staffing challenges with around 100 vacancies throughout the department. In addition, about 20 percent of the BWS workforce is nearing or at the age to qualify for retirement. Succession planning is critical to ensure that the institutional knowledge and abilities are transferred to the remaining staff. Organizational sustainability is essential for the BWS to be able to carry out its mission of providing safe, dependable, and affordable water now and into the future.

The Board is committed to supporting the department in finding solutions to these challenges and has requested to explore the formation of a Permitted Interaction Group that can work with the department to address this area.

Respectfully submitted,

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

DISCUSSION:

Chair Andaya stated the intent for action item #5 was originally to create a Permitted Interaction Group (PIG) to discuss the role and succession of the manager as its been discussed in the executive session. However, action item #5 is written in general for the entire BWS staff. The Board has the opportunity to decide whether to keep action item #5 as intended or to expand the scope.

Board Member Soon suggested that two PIGs be created to discuss the details of the Manager's position and the staffing issues of the whole department since both topics are both important.

Chair Andaya agreed with Board Member Soon that both topics have been an ongoing concern of the department's personnel and future.

Board Member Na'alehu Anthony added to Board Member Soon's suggestion in regards to fulfilling CIP's. Creating a second PIG to discuss the general BWS staff may allow the Board to look into engineers who aren't in leadership positions and discuss options.

Chair Andaya commented that the majority of the Board Members were in agreement with creating a PIG to address succession planning for the

Manager, which is under the charter as a primary function of the Board, and addressing the personnel challenges the BWS is facing as a whole department.

Manager Lau stated that the statute allows three members and they should be identified.

Chair Andaya confirmed Manager Lau's statement and announced the three members participating in the PIG are: Chair Andaya, Vice Chair Sproat, and Board Member Anthony.

Chair Andaya asked the Board Members if there were any further comments or discussion. There were no comments or discussions from the Board Members.

MOTION TO APPROVE

Ray Soon and Max Sword motioned and seconded, respectively, to create a PIG to determine the role and succession of the manager, and to address personnel challenges.

In lieu of a roll call vote, Chair Andaya requested a voice vote on the motion and requested that Board Members in favor of the motion say "Aye." The Board members present responded with a verbal "Aye." Chair Andaya then inquired if any Board Members would like to object or vote "Nay" on the motion. There were no objections or "Nay" votes. Chair Andaya announced that the motion was unanimously carried.

TO DETERMINE THE ROLE OF THE BOARD IN STAFFING AND SUCCESSION PLANNING AND CREATION OF A PERMITTED INTERACTION GROUP PURSUANT OF HRS §92-2.5(B)			
	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		

ITEM FOR INFORMATION NO. 1

"May 24, 2021

STATUS
UPDATE OF
GROUNDWATER
LEVELS AT
ALL INDEX
STATIONS

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

Chair and Members:

Subject: Status Update of Groundwater Levels at All Index Stations

There were two aquifer index stations in low groundwater condition for the production month of April 2021. Punaluu and Waialua are in Caution Status. The monthly production average for April 2021 was 132.80 million gallons per day.

The Board of Water Supply rainfall index for the month of April 2021 was 63 percent of normal, with a 5-month moving average of 127 percent. As of May 4, 2021, the Hawaii Drought Monitor showed abnormally dry conditions for the island of Oahu. The National Weather Service is forecasting below normal precipitation for the coming summer months.

Most monitoring wells exhibited decreased head levels for the month, likely due to increased pumping because of decreased rainfall during the month. Average monthly Production for April 2021 was higher compared to the previous year and the 5-year monthly average.

Respectfully submitted,

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

Attachment"

The foregoing was for information only.

DISCUSSION: Barry Usagawa, Program Administrator, Water Resources Division, gave the report.

Board Member Sword commented he's amazed that Punaluu's groundwater level is low considering how much it rains on the windward side.

Mr. Usagawa responded that Punaluu's groundwater level is at the top of caution but not an alert.

Board Member Sword stated he has witnessed people watering the yard during mid-day, therefore, inquired if Oahu is anticipating low rainfall and when should people avoid watering the yard.

Mr. Usagawa replied an advisory announcement is made when the BWS reports low groundwater status or in alert. During the summer months, the BWS starts conservation messaging. Irrigating should occur during the cooler hours of the day, mid-morning at 9:00 AM or late afternoons after 5:00 PM.

Manager Lau responded during the summer when there's anticipation for drier than normal summer, ratepayers are asked to voluntarily conserve water.

Board Member Sword asked if the BWS sends out any public service announcements.

Manager Lau replied in the past the BWS has used advertising funds to pay for television stations to send out messages. The BWS also uses free platforms such as radio stations and social media.

Mr. Usagawa mentioned that the Oahu Drought Committee, which he serves as a co-Chair, is planning a meeting in June and assisted by Commission of the Water Resources Management (CWRM). At the meeting, the National Weather Service announces the upcoming forecast and large water users meet to talk about the season and any particular issues of concern.

Chair Andaya thanked Mr. Usagawa for the report.

**PRODUCTION, HEAD AND RAINFALL REPORT
MONTH OF APRIL 2021**

POTABLE

STATION	MGD
HONOLULU (1)	
KULIOUOU	0.00
WAILUPE	0.13
AINA KOA	0.09
AINA KOA II	0.66
MANOA II	0.70
PALOLO	1.04
KAIMUKI HIGH	1.07
KAIMUKI LOW	1.90
WILDER	7.04
BERETANIA HIGH	5.53
BERETANIA LOW	0.82
KALIHI HIGH	0.00
KALIHI LOW	0.00
KAPALAMA	2.20
KALIHI SHAFT	7.62
MOANALUA	1.43
HALAWA SHAFT	9.98
KAAMILO	0.87
KALAUAO	5.85
PUNANANI	10.34
KAHUMANU	0.18
HECO WAIU	2.60
MANANA	0.28
WELLS SUBTOTAL:	60.12
MANOA TUNNEL	0.17
PALOLO TUNNEL	0.00
GRAVITY SUBTOTAL:	0.17
HONO. SUBTOTAL:	60.29

STATION	MGD
WINDWARD (2)	
WAIMANALO II	0.20
WAIMANALO III	0.00
KUOU I	0.64
KUOU II	0.06
KUOU III	0.50
LULUKU	0.92
HAIKU	0.00
IOLEKAA	0.00
KAHALUU	0.71
KAHANA	1.00
PUNALUU I	0.00
PUNALUU II	2.23
PUNALUU III	0.75
KALUANUI	1.31
MAAKUA	0.26
HAUULA	0.27
WELLS SUBTOTAL:	8.87
WAIM. TUNNELS I & II	0.00
WAIM. TUNNELS III&IV	0.19
WAIHEE INCL. WELLS	0.19
WAIHEE TUNNEL	4.31
LULUKU TUNNEL	0.16
HAIKU TUNNEL	0.51
KAHALUU TUNNEL	1.53
GRAVITY SUBTOTAL:	6.89
WIND. SUBTOTAL:	15.76

STATION	MGD
NORTH SHORE (3)	
KAHUKU	0.37
OPANA	0.08
WAIALEE I	0.44
WAIALEE II	0.69
HALEIWA	0.00
WAIALUA	1.99
N.SHORE SUBTOTAL:	3.57

STATION	MGD
MILILANI (4)	
MILILANI I	1.46
MILILANI II	0.00
MILILANI III	0.64
MILILANI IV	2.19
MILILANI SUBTOTAL:	4.30

STATION	MGD
WAHIAWA (5)	
WAHIAWA	0.93
WAHIAWA II	2.15
WAHIAWA SUBTOTAL:	3.08

STATION	MGD
PEARL CITY-HALAWA (6)	
HALAWA 277	0.63
HALAWA 550	0.00
AIEA	1.18
AIEA GULCH 497	0.13
AIEA GULCH 550	0.21
KAONOHI I	1.17
WAIMALU I	0.00
NEWTOWN	0.91
WAIU	0.74
PEARL CITY I	0.73
PEARL CITY II	1.14
PEARL CITY III	0.24
PEARL CITY SHAFT	0.93
PEARL CITY-HALAWA SUBTOTAL:	8.00

STATION	MGD
WAIPAHU-EWA (7)	
WAIPIO HTS.	2.06
WAIPIO HTS. I	0.99
WAIPIO HTS. II	0.27
WAIPIO HTS. III	1.13
WAIPAHU	5.48
WAIPAHU II	2.41
WAIPAHU III	2.04
WAIPAHU IV	3.04
KUNIA I	0.02
KUNIA II	2.04
KUNIA III	2.92
HOAEAE	7.89
HONOULIULI I	0.00
HONOULIULI II	2.81
MAKAKILO	0.15
WAIPAHU-EWA SUBTOTAL:	33.27

STATION	MGD
WAIANAE (8)	
MAKAHA I	0.00
MAKAHA II	0.03
MAKAHA III	1.00
MAKAHA V	0.53
MAKAHA VI	0.00
MAKAHA SHAFT	0.00
KAMAILE	0.10
WAIANAE I	0.18
WAIANAE II	0.41
WAIANAE III	0.68
WELLS SUBTOTAL:	2.91
WAI. C&G TUNNEL	1.40
WAI. PLANT. TUNNELS	0.21
GRAVITY SUBTOTAL:	1.61
WAIANAE SUBTOTAL:	4.53

NONPOTABLE

NONPOTABLE	MGD
KALAUAO SPRINGS	0.42
BARBERS POINT WELL	1.15
GLOVER TUNNEL NP	0.32
NONPOTABLE TOTAL:	1.89

RECYCLED WATER (MARCH 2021)

RECYCLED WATER	MGD
HONOULIULI WRF R-1	5.46
HONOULIULI WRF RO	1.25
RECYCLED WATER TOTAL:	6.71

**PRODUCTION, HEAD AND RAINFALL REPORT
MONTH OF APRIL 2021**

PRODUCTION SUMMARIES

TOTAL WATER	MGD
PUMPAGE	124.13
GRAVITY	8.67
POTABLE TOTAL:	132.80
NONPOTABLE	1.89
RECYCLED WATER	6.71
TOTAL WATER:	141.40

CWRM PERMITTED USE AND BWS ASSESSED YIELDS FOR BWS				
POTABLE SOURCES				
WATER USE DISTRICTS		A	B	C
		PERMITTED USE/ BWS YLDS	APR 2021	DIFF. A-B
1	HONOLULU	82.93	60.12	22.81
2	WINDWARD	25.02	11.26	13.76
3	NORTH SHORE	4.70	3.57	1.13
4	MILILANI	7.53	4.30	3.23
5	WAHIAWA	4.27	3.08	1.19
6	PEARL CITY-HALAWA	12.25	8.00	4.25
7	WAIPAHU-EWA	50.63	33.27	17.36
8	WAIANAЕ	4.34	2.91	1.43
TOTAL:		191.67	126.52	65.15

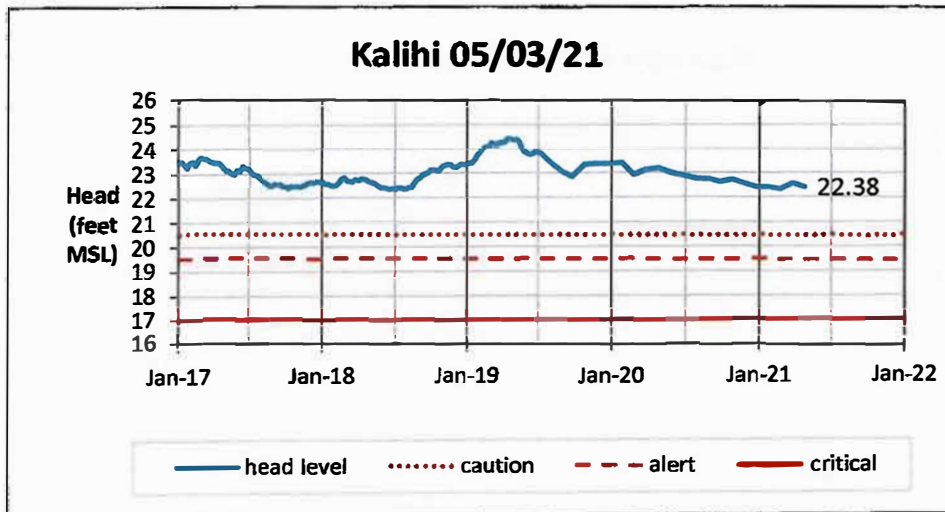
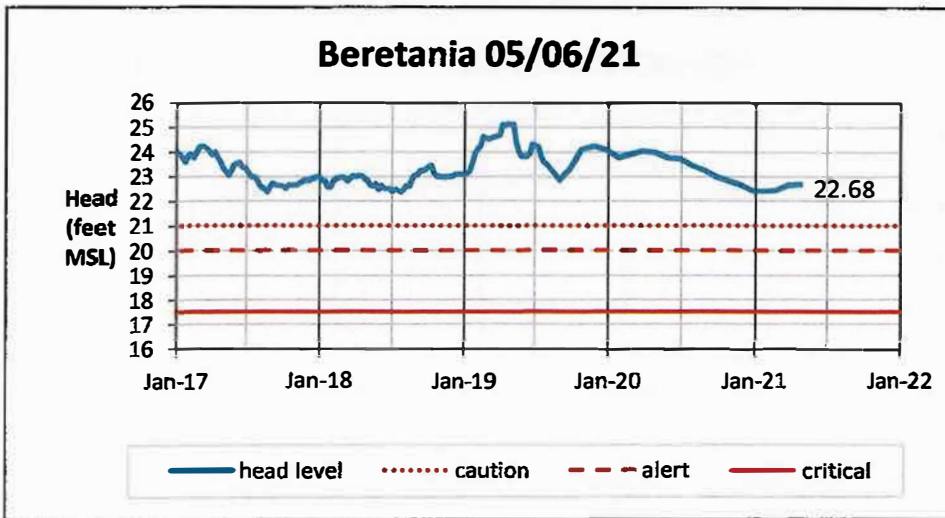
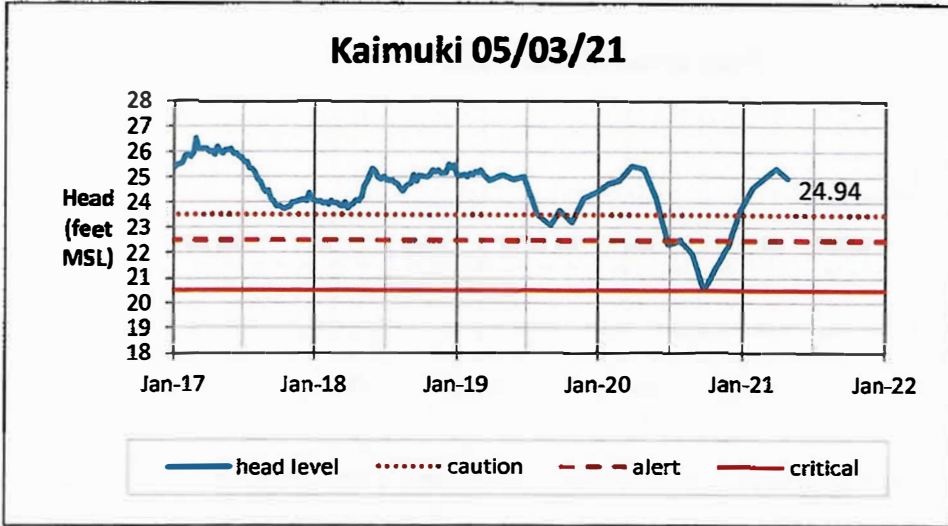
CWRM PERMITTED USE FOR BWS				
NONPOTABLE SOURCES				
WATER USE DISTRICTS		A	B	C
		PERMITTED USE	APR 2021	DIFF. A-B
7	WAIPAHU-EWA (BARBERS POINT WELL)	1.00	1.15	-0.15
TOTAL:		1.00	1.15	-0.15

EFFECTIVE WATER DEMAND PER DISTRICT

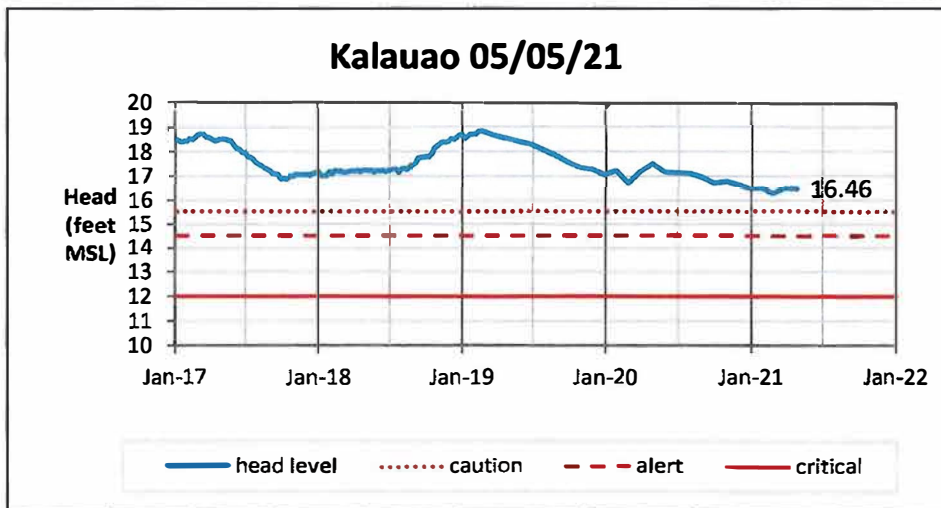
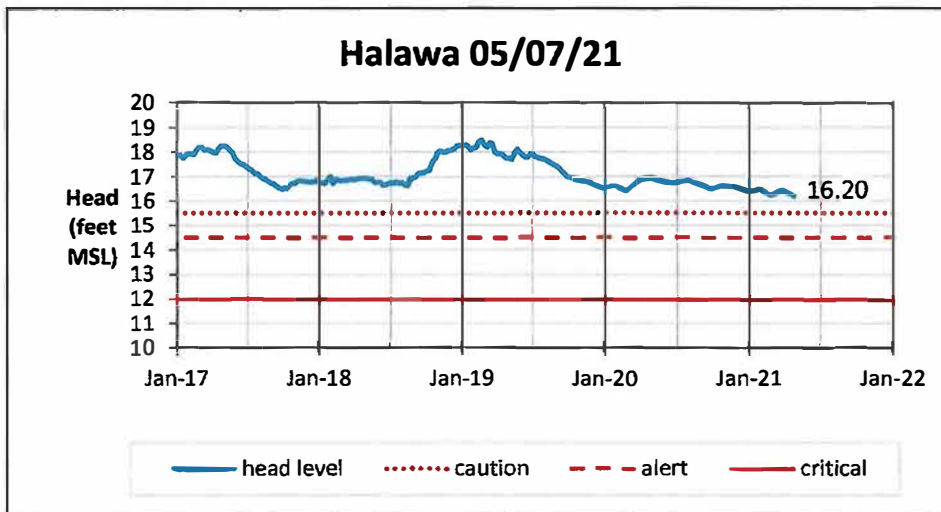
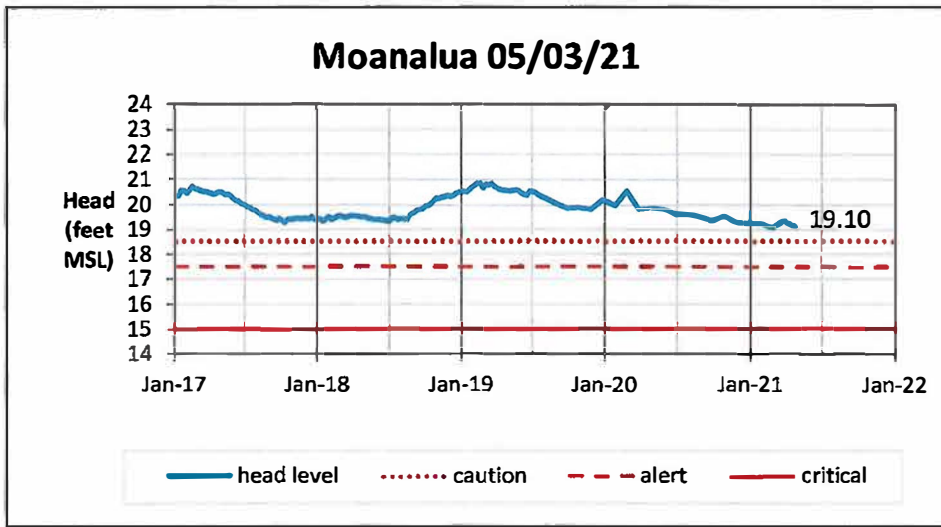
IMPORT/EXPORT BETWEEN WATER USE DISTRICTS			
FROM	TO		MGD
2	1	WINDWARD EXPORT	0.58
7	8	BARBERS PT LB	5.02

WATER USE DISTRICTS		SUBTOTAL	IMPORT	EXPORT	EFFECTIVE WATER DEMAND
1	HONOLULU	60.12	0.58	-	60.70
2	WINDWARD	11.26	-	0.58	10.68
3	NORTH SHORE	3.57	-	-	3.57
4	MILILANI	4.30	-	-	4.30
5	WAHIAWA	3.08	-	-	3.08
6	PEARL CITY-HALAWA	8.00	-	-	8.00
7	WAIPAHU-EWA	33.27	-	5.02	28.25
8	WAIANAЕ	2.91	5.02	-	7.93
TOTAL:		126.52	5.60	5.60	126.52

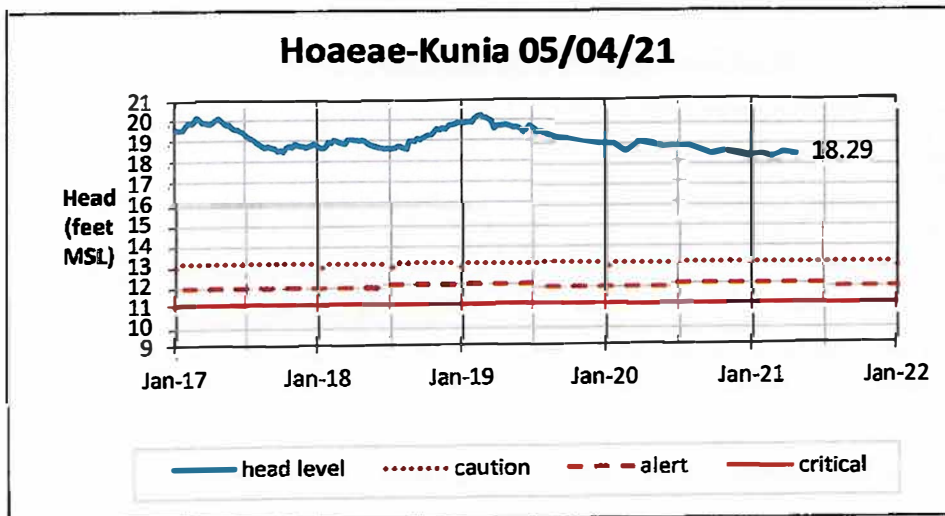
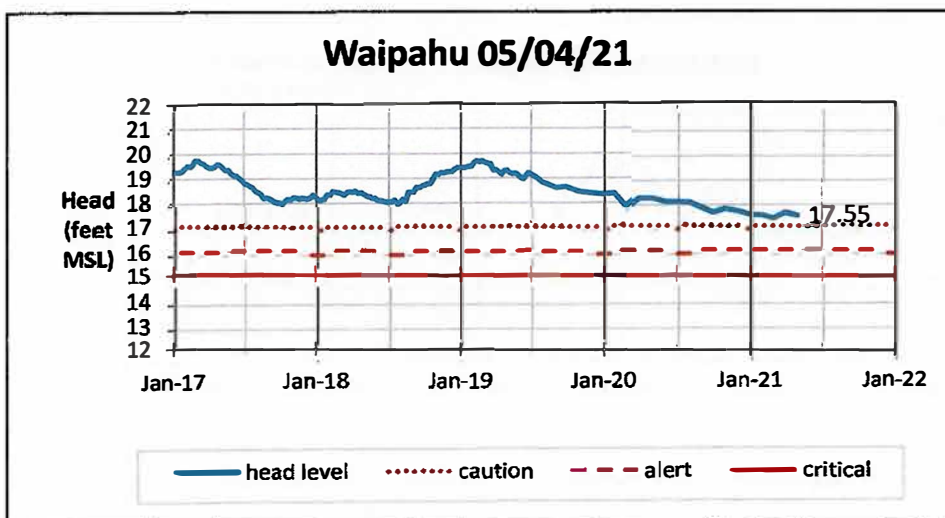
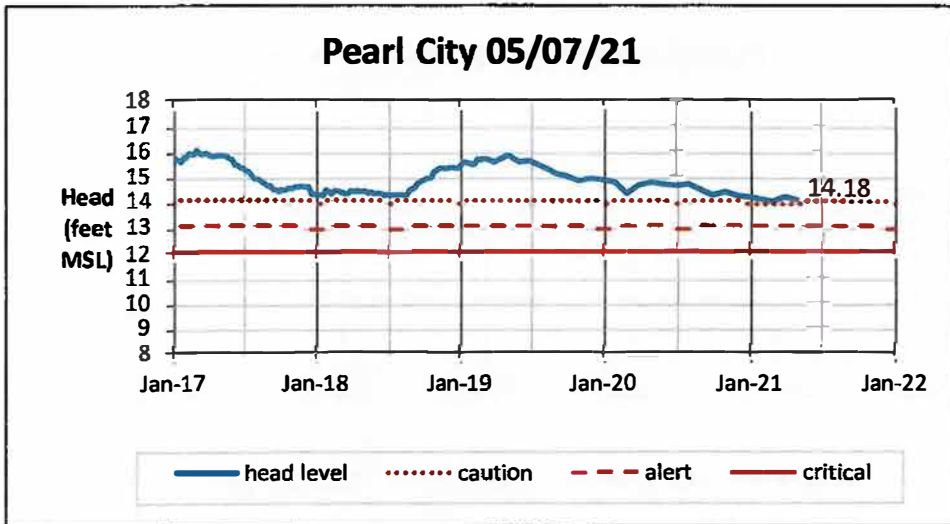
Head Report



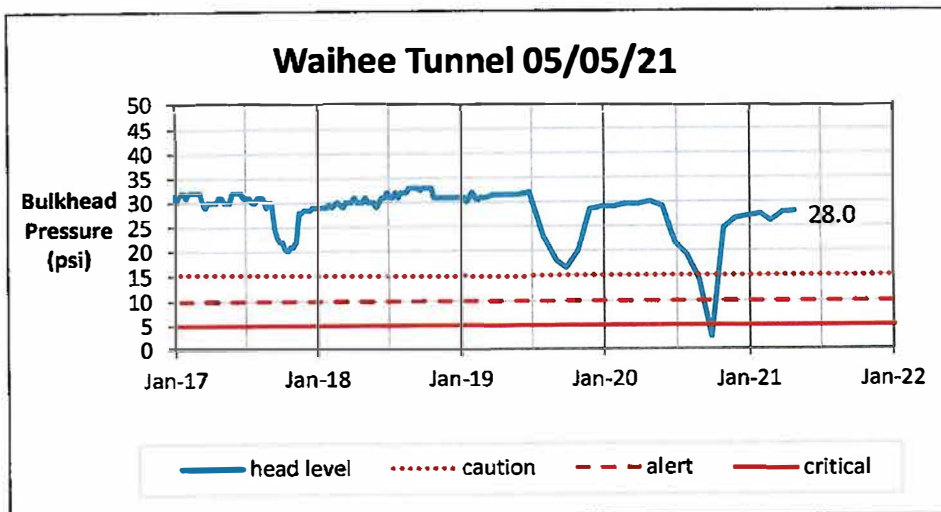
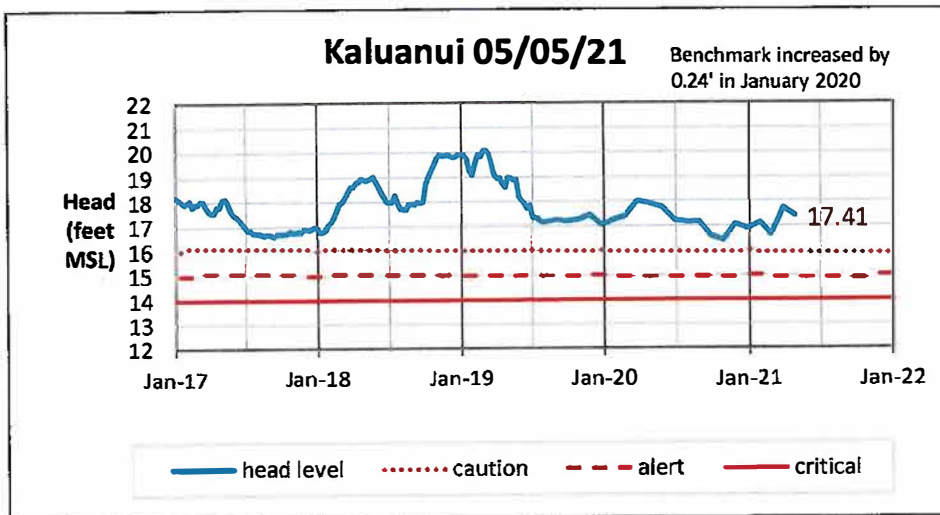
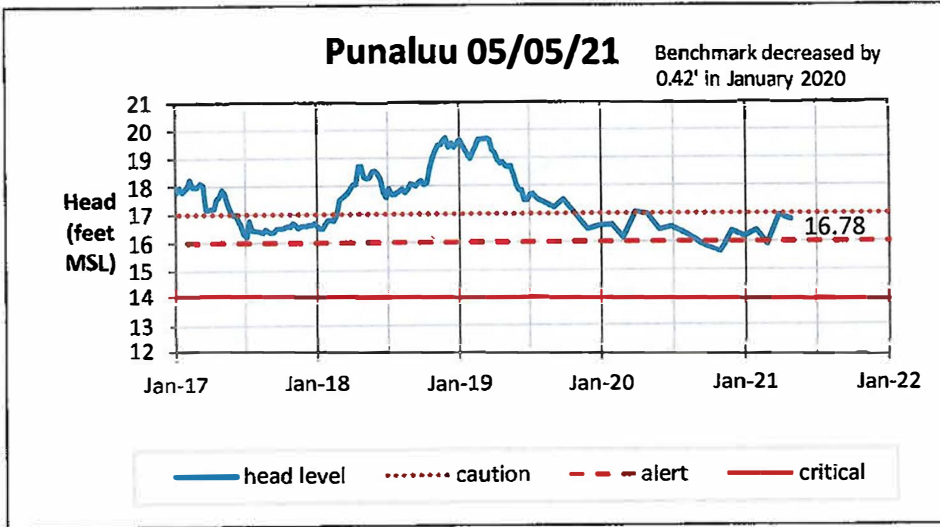
Head Report



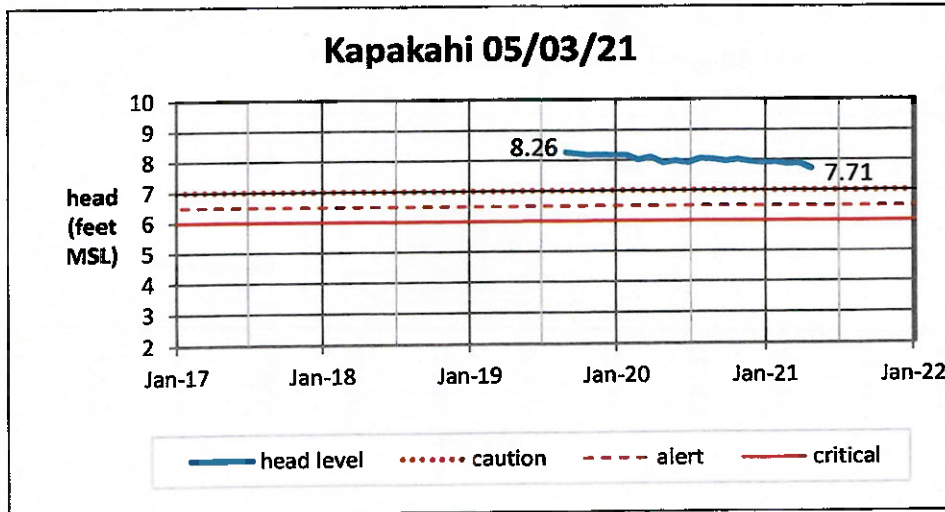
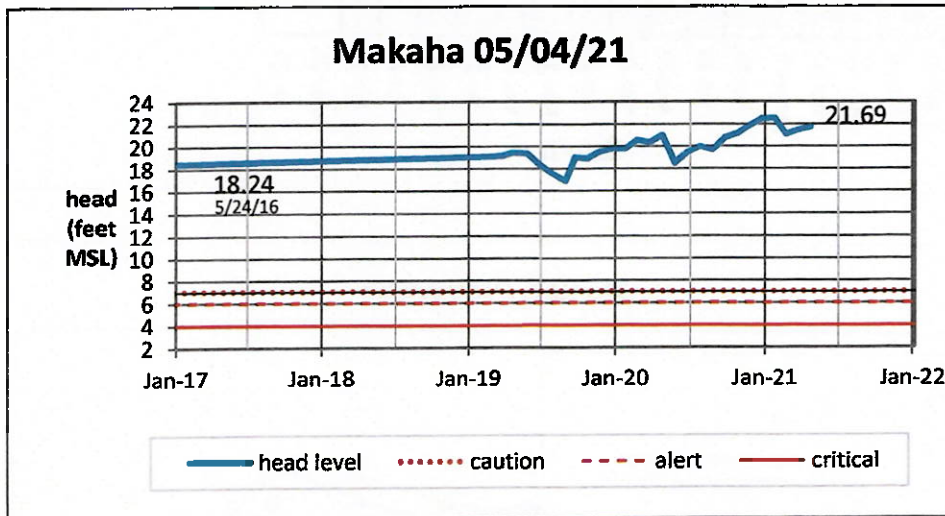
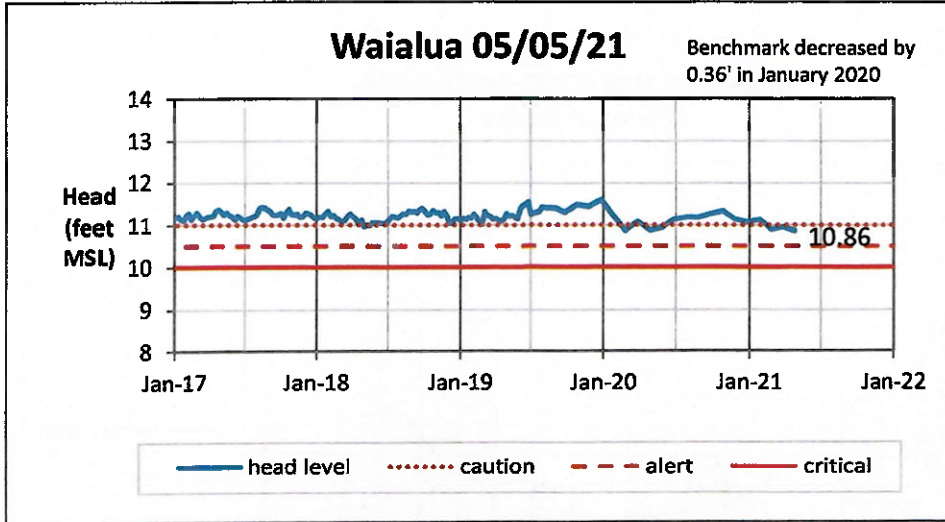
Head Report

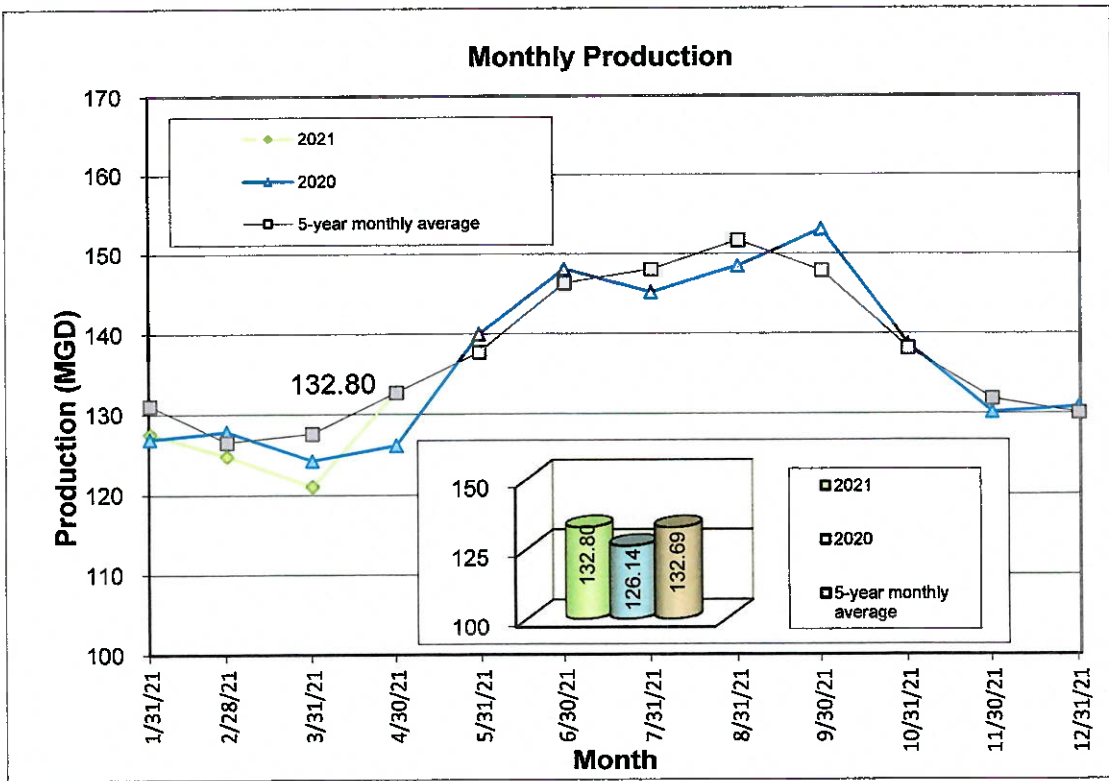
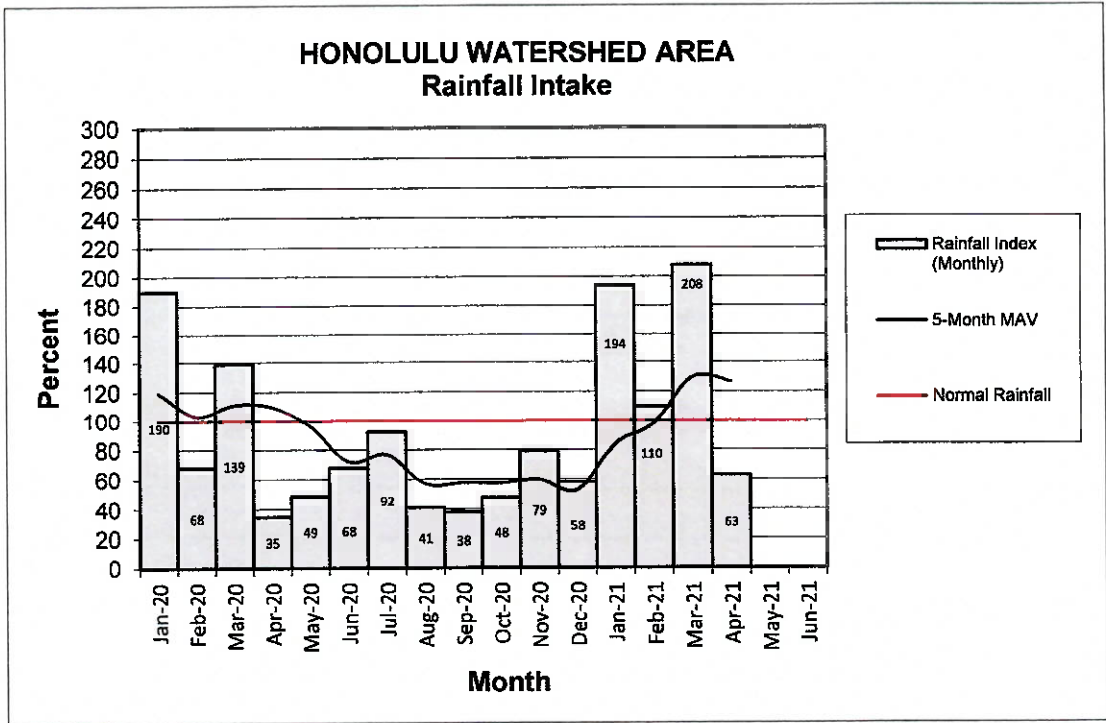


Head Report



Head Report





ITEM FOR INFORMATION NO. 2

"May 24, 2021

WATER MAIN
REPAIR
REPORT FOR
APRIL 2021

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

Chair and Members:

Subject: Water Main Repair Report for April 2021

Jason Nikaido, Assistant Program Administrator, Field Operations Division, will report on water main repair work for the month of April 2021.

Respectfully submitted,

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

Attachment"

The foregoing was for information only.

DISCUSSION:

Jason Nikaido, Assistant Program Administrator, Field Operations Division, gave the report.

Board Member Soon inquired with the help of Utilis will the BWS see fewer leaks within the next year as pipelines are replaced.

Manager Lau replied as projected in the BWS Water Master Plan (WMP), there would be a rise in main breaks before any difference will show especially before the first two hundred critical miles of pipelines are replaced. Over time as the BWS works to replace 21 miles of pipeline per year the BWS will begin to see fewer leaks as more system pipelines are replaced. This is an investment for future generations.

Mr. Nikaido added early detection work helps decrease the number of leaks since the BWS is able to repair a leak before it becomes a break.

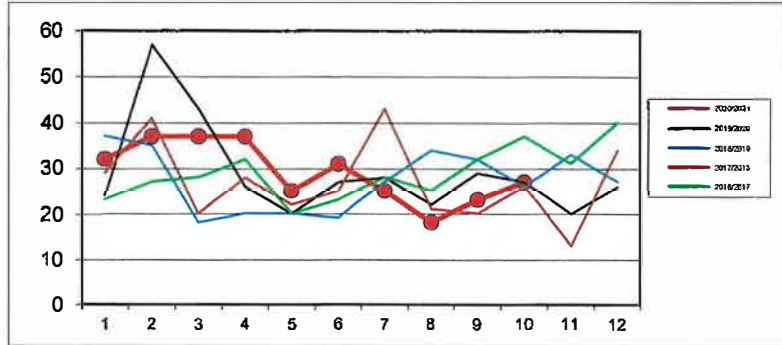
Chair Andaya thanked Mr. Nikaido for the report.

Chair Announce that the Board will return to discussing the action item #4, Adoption of Resolution No. 924, 2021, Reaffirming the Protection of Oahu's Groundwater Aquifers from Fuel Contamination.

WATER MAIN REPAIR REPORT for April 2021

	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	Total
2020/2021	32	37	37	37	25	31	25	18	23	27			292
2019/2020	24	57	43	26	20	27	28	22	29	27	20	26	349
2018/2019	37	35	18	20	20	19	27	34	32	26	33	27	328
2017/2018	29	41	20	28	22	25	43	21	20	26	13	34	322
2016/2017	23	27	28	32	20	23	28	25	32	37	31	40	346

Date	Address	Size (In)	Pipe Type
4/2/2021	477 Lagoon Dr, Honolulu	16	CC
4/3/2021	87-1673 Mohihi St, Waianae	8	PVC
4/3/2021	98-1379 Akaaka St, Aiea	8	PVC
4/5/2021	52 Nakeke Pl, Wahiawa	6	CI
4/6/2021	1368 Nanialii St, Kailua	8	CI
4/7/2021	703 N Vineyard Blvd, Honolulu	12	CI
4/8/2021	45-118 Mimo Pl, Kaneohe	4	CI
4/9/2021	87-575 Kulaaupuni St, Waianae	4	DI
4/12/2021	98-453 Kaonohi St, Aiea	8	CI
4/12/2021	1613 Hooheke St, Pearl City	8	PVC
4/12/2021	935 Kaipuhaa Pl, Honolulu	4	CI
4/12/2021	60 Dowsett Ave, Honolulu	8	PVC
4/13/2021	56-306 Leleuli St, Kahuku	12	DI
4/14/2021	2202 Kula Kolea Dr, Honolulu	6	CI
4/16/2021	2250 Aumakua St, Pearl City	8	CI
4/17/2021	3005 Kahawai St, Honolulu	8	PVC
4/21/2021	2805 Pukoloa St, Honolulu	12	CI
4/21/2021	3908 Sierra Dr, Honolulu	8	CI
4/22/2021	99-311 Aheahe St, Aiea	6	CI
4/23/2021	99-811 Aiea Heights Dr, Aiea	4	CI
4/25/2021	87-349 Hakimo Rd, Waianae	20	CC
4/25/2021	273 Ilihaui St, Kailua	12	AC
4/27/2021	1364 Akiahala Pl, Kailua	4	CI
4/27/2021	3405 Ginger St, Honolulu	6	CI
4/28/2021	2844 Easy St, Honolulu	4	CI
4/29/2021	44-145 Laha St, Kaneohe	12	AC
4/30/2021	702 Keolu Dr, Kailua	12	AC



21 miles of pipeline were surveyed by the Leak Detection Team in the month of April.

MOTION TO RECESS INTO EXECUTIVE SESSION

There being no further business Chair Andaya at 3:41 PM called for a motion to adjourn the Open Session. Kapua Sproat so moved; seconded by Na'alehu Anthony and unanimously carried.

Upon unanimous approved motion, the Board recessed into Executive Session Pursuant to [HRS § 92-5 (a)(4)] and [HRS § 92-5 (a)(2)] at 3:48 PM to Consider Issues Pertaining to Matters Posted for Discussion at an Executive Session.

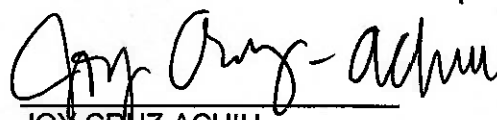
OPEN SESSION

The Board reconvened in Open Session at 5:47 PM.

MOTION TO ADJOURN

There being no further business Chair Andaya at 5:48 PM called for a motion to adjourn the Regular Session. Max Sword so moved; seconded by Jade Butay and unanimously carried.

The minutes of the Regular Meeting held on May 24, 2021 are respectfully submitted,


JOY CRUZ-ACHIU

APPROVED:


BRYAN P. ANDAYA
Chair of the Board

JUN 28 2021

Date

THE MINUTES OF THE REGULAR SESSION BOARD MEETING ON MAY 24, 2021 WERE APPROVED AT THE JUNE 28, 2021 BOARD MEETING			
	AYE	NO	COMMENT
BRYAN P. ANDAYA	X		
KAPUA SPROAT			ABSENT
RAY C. SOON			ABSENT
MAX J. SWORD	X		
NA'ALEHU ANTHONY			ABSENT
JADE T. BUTAY	X		
ROGER BABCOCK JR.	X		