

BOARD OF WATER SUPPLY

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



May 17, 2022

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
DAWN B. SZEWCZYK, P.E., 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 23, 2022, 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.

The public may also attend the meeting from the lobby of the Board of Water Supply, Public Service Building, 630 S. Beretania St. Honolulu, HI 96843, via interactive conference technology.

TESTIMONY

Testimony can be submitted as follows:

- Written testimony may be emailed to board@hbws.org or faxed to (808) 748-5079. Testimony is requested by Monday, May 23, 2022, 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 requested by Monday, May 23, 2022, at noon.
- On-line testimony will be accepted at boardofwatersupply.com/testimony. Fill out the testimony form. It is requested by Monday, May 23, 2022, 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 be accepted during the meeting in the Board Room at the Board of Water Supply. In-person testifiers should check in at the Lobby of the Public Service Building, 630 S. Beretania St. Honolulu, HI 96843 and they will be brought into the Board Room to present their testimony.

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

MATERIALS AVAILABLE FOR INSPECTION

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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 23, 2022, Regular Meeting of the Board of Water Supply is as follows:

PUBLIC HEARING

1. Proposed Fiscal Year 2022-2023 Operating and Capital Improvement Program Budget for the Board of Water Supply

ITEMS REQUIRING BOARD ACTION

1. Approval of the Minutes of the Regular Meeting Held on April 25, 2022
2. Approval of the Minutes of the Budget Workshop Meeting on May 9, 2022
3. Adoption of Resolution No. 941, 2022, Adopting the Operating and Capital Improvement Program Budget for the Fiscal Year 2022-2023 and Appropriating Funds Therefor

ITEMS FOR INFORMATION

1. Update on Board of Water Supply's Response to the Potential Impacts of the Red Hill Fuel Contamination
2. Capital Improvement Program Quarterly Update
3. Financial Update for the Quarter Ended March 31, 2022
4. Status Update of Groundwater Levels at All Index Stations
5. Water Main Repair Report for April 2022

MINUTES

THE PUBLIC HEARING AND REGULAR MEETING OF THE BOARD OF WATER SUPPLY

May 23, 2022

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 2022- 2023 Operating and Capital Improvement Program Budget for the Board of Water Supply.

Present: Bryan P. Andaya, Chair
Kapua Sproat, Vice Chair via WebEx
Max J. Sword, Board Member
Na'alehu Anthony, Board Member via WebEx
Jade T. Butay, Board Member, Ex-Officio via WebEx
Dawn B. Szewczyk, 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 via WebEx
Garon Hamasaki, Civil Engineer IV,
Customer Care Division via Vimeo
Kathleen Elliott-Pahinui, Information Officer,
Communications Office via WebEx
Raelynn Nakabayashi, Executive Assistant I,
Executive Support Office via WebEx
Jason Nikaido, Program Administrator,
Field Operations Division via WebEx
Joseph Cooper, Waterworks Controller,
Finance Division via WebEx
Michele Thomas, Executive Assistant I,
Human Resources Office via WebEx
Henderson Nuuhiwa, Program Administrator,
Information Technology Division
via WebEx
Michael Matsuo, Land Administrator, Land Division
via Vimeo
Erwin Kawata, Program Administrator,
Water Quality Division via WebEx
Barry Usagawa, Program Administrator,
Water Resources Division via WebEx
Kevin Ihu, Program Administrator,
Water System Operations Division
via WebEx
Kathy Mitchell, Administrative Services Officer
via Vimeo

Oliver Julian, Budget Analyst IV,
Executive Support Office via WebEx
Jill Nguyen, Management Analyst IV,
Executive Support Office via WebEx
Steven Norstrom, Information Specialist II,
Communications Office via WebEx
Stella Bernardo, Information Specialist II,
Communications Office via WebEx
Michele Harman, Community Relations Specialist I,
Communications Office via WebEx
Keoni Mattos, Information Specialist II,
Communications Office via WebEx
Joy Cruz-Achiu, Board Secretary

Others Present: Jessica Wong, Deputy Corporation Counsel
via WebEx

Absent: Ray C. Soon, Board Member

PUBLIC HEARING

At 2:00 PM, Chair Bryan Andaya called to order the May 23, 2022, Board of Water Supply Public Hearing and Regular Board Meeting and welcomed everyone. He stated the mission of the Board of Water Supply (BWS) is to provide a safe, dependable, and affordable supply of water now and into the future. Chair Andaya announced that a Public Hearing will be held first, followed by the Regular Meeting of the Honolulu Board of Water Supply (BWS). He shared that the Board of Water Supply Public Hearing notice was published in the May 13, 2022, Star Advertiser.

Before beginning the meeting Chair Andaya went over a few meeting regulations required by law. Board Members attending the Board Meeting remotely must be visible to the public to be considered present and meet quorum guidelines. He also stated that during roll call Board Members participating remotely must disclose their location and anyone that may be present at their location. He announced that the public would be allowed to attend Board Meetings at the BWS, Public Service Building, 630 S. Beretania Street, Honolulu, HI 96843, via interactive conference technology.

Chair Andaya requested a roll call for the Public Hearing and Regular Meeting and asked those participating remotely to keep their cameras on during the meeting to comply and meet quorum guidelines. Chair Andaya asked each Board Member to respond verbally when their names were called. He requested for Board Secretary Joy Cruz-Achui to conduct roll call: Vice Chair Kapua Sproat, aye and alone at her current location; Board Member Max Sword, aye and present in the Board room; Board Member Na'alehu Anthony, aye and alone at his current location; Board Member Jade Butay, aye and alone at his current location; and Board Member Dawn Szewczyk, aye and present in the Board room. Chair Andaya was present in the Board room.

Chair Andaya introduced those present in the Boardroom, Manager Ernest Lau, and Board Secretary Joy L. Cruz-Achui. Joining via WebEx to monitor public testimony is Steven Norstrom, Information Specialist II, Communications Office. Joining from the City and County Corporation Deputy Jessica Wong via WebEx.

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

The following procedures are in effect for the meeting:

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 23, 2022, 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. In-person testimony is being accepted at the Board of Water Supply, Public Service Building located at 630 S. Beretania St. Honolulu, HI 96843. 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.

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 I, 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 Capital Improvement Program (CIP) Budget.

Ms. Nakabayashi stated that the overall budget total presented at the Budget Workshop on May 9, 2022, has not changed, but "Waialele Well" project in the CIP has been replaced with the "Hawaii State Hospital Well"; project. The funding and type of project remained the same.

Ms. Nakabayashi presented the Operating and CIP budgets, highlighting the changes in the Operating and CIP budgets from previous fiscal years, the proposed Operating Fund Expenditures, and anticipated revenue projections.

Board Member Max Sword inquired if the BWS included in the budgeted Fixed Charges and Debt Service the rising cost of fuel.

Ms. Nakabayashi responded that the budgeted amount for fuel increase is noted in the Fiscal Year 2023 Budget book on page OP-62, Water System Operations, Automotive Personnel Services.

Board Member Sword asked if the Federal Government is assisting the BWS with the cost to rectify the Red Hill Crisis.

Ms. Nakabayashi replied that the BWS received American Rescue Plan Act (ARPA) funding through the State and Local Fiscal Recovery Funds (FRF). She explained that FRF monies were Federal funding provided at the State and Local levels to address impacts from the COVID-19 pandemic, which must be encumbered by December 31, 2024, and expended by December 31, 2026. The BWS was not able to use this funding for the development of new sources related to the Red Hill contamination issue due to these timing restrictions. The BWS has submitted a request for "Congressional Earmarks" to Senator Brian Schatz in the amount of \$195M. The Congressional Earmark request would provide funding for the design, planning, and engineering for projects to address the Red Hill crisis.

Manager Lau added that the BWS has requested the Department of Defense (DOD), United States Navy to repay the BWS for all expenses incurred due to the Red Hill crisis.

Chair Andaya recognized Mr. Jason, Takaki, Program Administrator, Capital Projects Division to provide the CIP budget update.

Mr. Takaki stated that the annual CIP budget is compiled by the Capital Projects Division and includes projects from all Divisions and Staff Offices.

Mr. Takaki concluded the highlights of the CIP Budget and asked if the Board Members had any questions.

Board Member Na'alehu Anthony inquired if two wells at the Mililani location are permanently offline. How often are wells renovated and does the BWS wait until the pumps fail to be replaced?

Mr. Takaki responded that two of the four wells at Mililani are currently offline. He stated that there are a few pump replacements at various locations each fiscal year, which are budgeted in the CIP, Renewal and Replacement category. The BWS uses an indefinite delivery indefinite quantity contract that can quickly replace pumps. While the pumps are being replaced, the BWS uses standby capacity should a pump fail.

Chair Andaya referred back to the Fiscal Year CIP Budget.

CAPITAL IMPROVEMENT PROGRAM BUDGET FY 2023							
	Categories	Operating Fund	Operating Fund (SRF Eligible)	Special Expendable Fund	Improvement Fund	Extramural Fund	Total
I.	Research & Development	\$ 19,999,500	---	---	---	---	\$ 19,999,500
II.	Renewal & Replacement	13,850,000	500,000	---	58,320,000	25,300,000	97,970,000
III.	Capacity Expansion	---	---	23,950,000	---	---	23,950,000
	Subtotal	33,849,500	500,000	23,950,000	58,320,000	---	141,919,500
	Construction Cost Index	3,051,825	---	3,300,000	7,803,000	3,585,000	17,739,825
	Contract Adjustment	21,450,000	---	---	---	---	21,450,000
	Total	\$ 58,351,325	\$ 500,000	\$ 27,250,000	\$ 66,123,000	\$ 28,885,000	\$ 181,109,325

Chair Andaya asked Mr. Takaki to explain Construction Cost Index and Contract Adjustment and how the budgeted amount is determined.

Mr. Takaki replied that the Construction Cost Index (CCI) was created to cover any overages for projects due to rising costs. He stated that the budgeted amount for the CCI for the Fiscal Year 2023 is 15% of construction funding. The Contract Adjustment (CA) is budgeted in the CIP, specific for ongoing projects. The Contract Adjustment provides funding for ongoing projects that may require a change order or contract modification.

Chair Andaya expressed his concern about the amount budgeted for the CCI and the CA categories. He requested that the Board Members be updated on the trends in both categories.

Manager Lau explained that both categories are budgeted to include any unforeseen challenges that the BWS may encounter during a project. He asked Mr. Takaki to share the current total amount of ongoing projects.

Mr. Takaki shared that the total amount for ongoing projects is currently \$364M. The budgeted Fiscal Year 2023 CA amount is higher than in previous years because the BWS anticipates delay claims related to projects that have been budgeted and awarded but are not able to proceed.

Chair Andaya asked Mr. Takaki to explain what delay claims entail.

Mr. Takaki explained that once the BWS executes the contract, the BWS gives the contractor the approval to begin work by a certain date. If the project cannot proceed by that date, the BWS issues a stop work order. The contractor is due costs related to the delay in starting the work. In the case of Fiscal Year 2023, there are a number of projects from Fiscal Year 2022 that have not been allowed to start due to delays in getting permits and approvals.

Manager Lau added that in cases that there is a delay in permits or approvals the BWS would not be able to proceed with the project.

Chair Andaya requested details of delayed projects.

Manager Lau stated that this information will be included in the next quarterly CIP update.

Chair Andaya inquired how the BWS determines the budget for each project.

Mr. Takaki responded that the budget for each project is based on past bids, the size of the water main, the geology of the area, and if traffic control is required. The estimated cost for each project is established by engineers.

Chair Andaya also requested that at the next CIP update include a presentation on the methodology that the BWS uses to estimate a project.

Manager Lau suggested that Mr. Takaki select a project to show the unique challenges that affect a project estimate.

Ms. Nakabayashi concluded the Operating and CIP Budget presentation by stating that the total appropriation for Fiscal Year 2023 across the source of funds is \$418,349,769.

FY 2023 BUDGET SUMMARY						
	Operating Fund	Operating Fund - SRF Eligible	Special Expendable Fund	Improvement Fund	Extramural Fund	TOTAL - All Funds
Operating Budget	237,240,444	-	-	-	-	- 237,240,444
Capital Improvement Program	58,351,325	500,000	27,250,000	66,123,000	28,885,000	181,109,325
Total - All Funds	295,591,769	500,000	27,250,000	66,123,000	28,885,000	418,349,769

Chair Andaya asked if there were any other questions on the proposed Operating and CIP Budget. Hearing none, he asked Board Secretary Ms. Cruz-Achiu if there was any written testimony or if anyone was on the telephone or in-person waiting to testify. Ms. Cruz-Achiu responded that there was no written testimony or anyone waiting on the telephone or in-person to testify.

Chair Andaya closed the Public Hearing at 2:57 PM and continued with the Regular Board Meeting.

Public
Hearings

Public
Hearings

Public
Hearings

NOTICE OF PUBLIC HEARING

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Some Board members may be participating in the meeting by interactive conference technology from remote locations. The public may attend the meeting from the lobby of the Board of Water Supply, Public Service Building, 630 S Beretania St. Honolulu, HI 96843, via interactive conference technology.

TESTIMONY CAN BE SUBMITTED AS FOLLOWS:

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VIEWING THE MEETING

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Persons wishing to present testimony are requested to register by 1:00 p.m. on Friday, May 20, 2022, with Luella Paekukul, (808) 748-5176, by providing your name, phone number, and subject matter of testimony. 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, 2022, so that appropriate accommodations can be provided.

**BOARD OF WATER SUPPLY
CITY AND COUNTY OF HONOLULU**

(SA1371485 5/13/22)

AFFIDAVIT OF PUBLICATION

IN THE MATTER OF
NOTICE OF PUBLIC HEARING

STATE OF HAWAII

} SS.

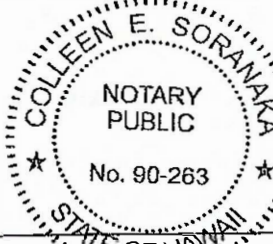
City and County of Honolulu

Doc. Date: MAY 16 2022 # Pages: 1

Notary Name: COLLEEN E. SORANAKA First Judicial Circuit

Doc. Description: Affidavit of
Publication

[Signature] MAY 16 2022
Notary Signature Date



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:
05/13/2022

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:

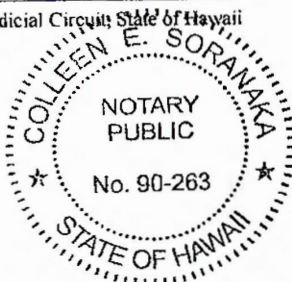
And that affiant is not a party to or in any way interested in the above entitled matter.

[Signature]
Lisa Sakakida

Subscribed to and sworn before me this 16th day of May A.D. 20 22

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

Ad # 0001371485



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BOARD OF WATER SUPPLY
CITY AND COUNTY OF HONOLULU

(SA1371485 5/13/22)

ICSP NO.: _____



FY 2023 BUDGET PUBLIC HEARING

Raelynn Nakabayashi & Jason Takaki, P.E.

May 23, 2022

boardofwatersupply.com



FY 2023 OPERATING BUDGET AND CAPITAL IMPROVEMENT PROGRAM BUDGET

RAELYNN NAKABAYASHI, EXECUTIVE SUPPORT OFFICE

MAY 23, 2022



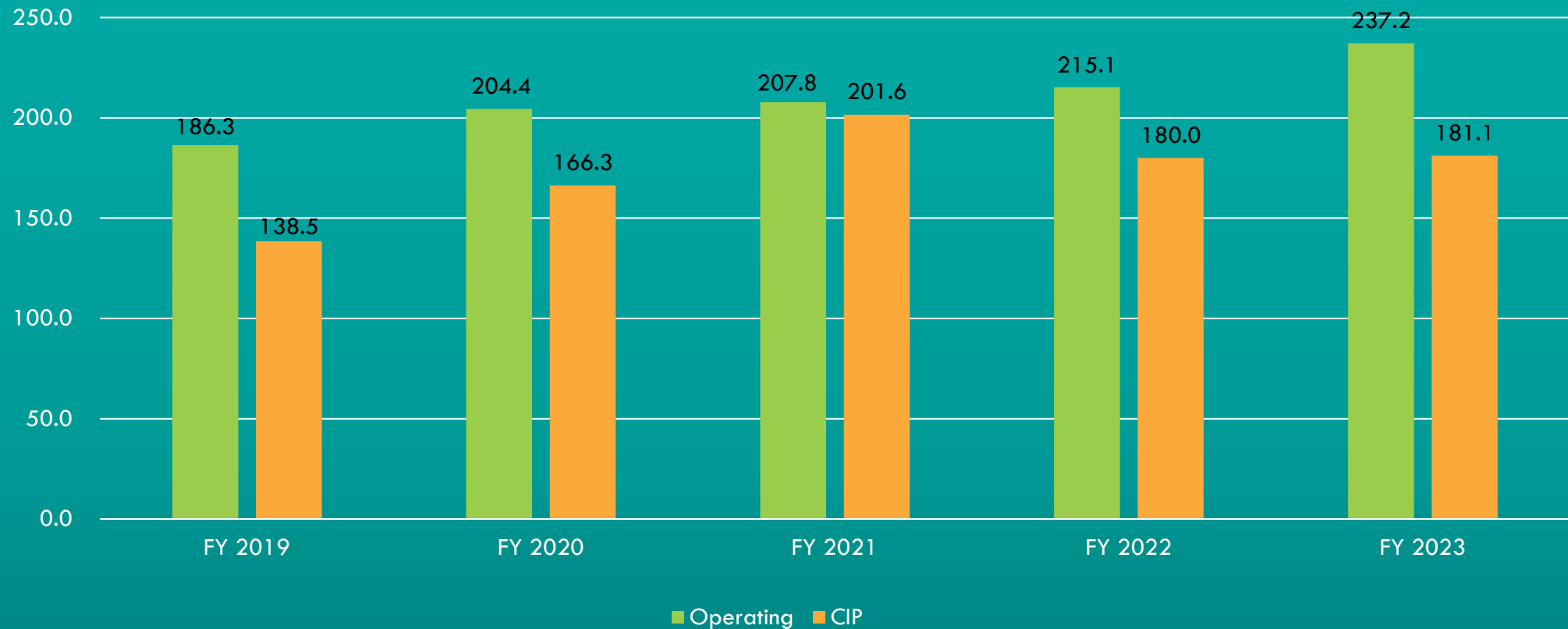
FY 2023 BUDGET SUMMARY

	FY 2022 – Adopted	FY 2023 – Proposed	\$ Change	% Change
Operating Budget	\$215,140,447	\$237,240,444	\$22,099,997	10.3%
Capital Improvement Program Budget	\$179,976,000	\$181,109,325	\$1,133,325	0.6%
Total	\$395,116,447	\$418,349,769	\$23,233,322	5.9%



OPERATING & CIP BUDGETS FY 2019 – FY 2023

(MILLIONS OF DOLLARS)



OPERATING FUND RESOURCES AND EXPENDITURES

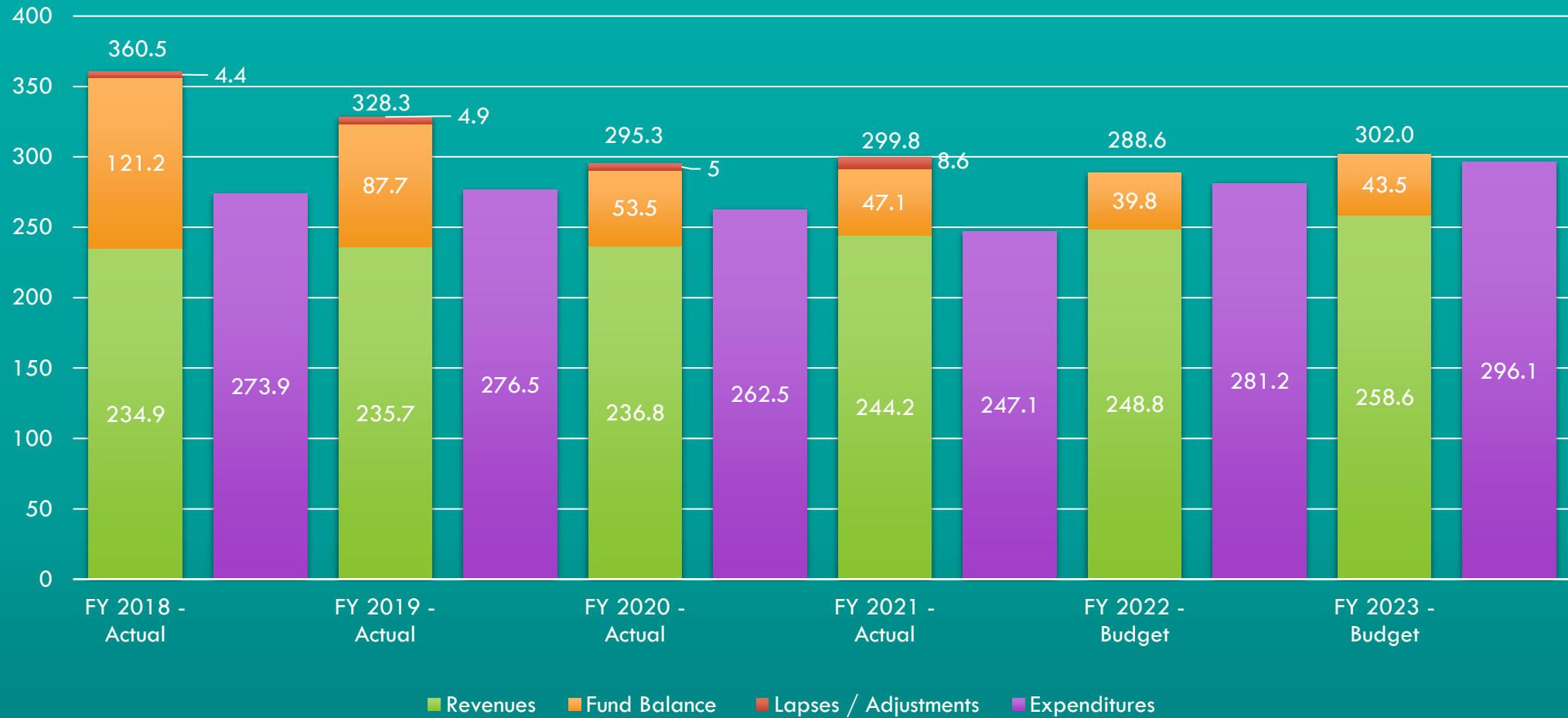
(MILLIONS OF DOLLARS)

	FY 2021	FY 2022	FY 2023
	Actual	Estimated Actual	Budget
Beginning Balance	\$ 47.1	\$ 52.7	\$ 43.5
Revenues	244.2	252.8	258.6
Lapses/ Adjustments	8.6	--	-
Total Resources	299.8	305.6	302.0
Operating Expenditures	181.1	197.9	237.2
Capital Improvement Program	66.0	64.2	58.9
Total Expenditures	247.1	262.1	296.1
Ending Balance	\$ 52.7	\$ 43.5	\$ 5.9



TOTAL RESOURCES VS. TOTAL EXPENDITURES

(MILLIONS OF DOLLARS)



BOARD ADOPTED FINANCIAL POLICIES

(FISCAL YEAR END JUNE 30, 2021)

4.4.2 Debt Service Coverage – FY 21 **3.50x (Senior) & 2.59x (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.

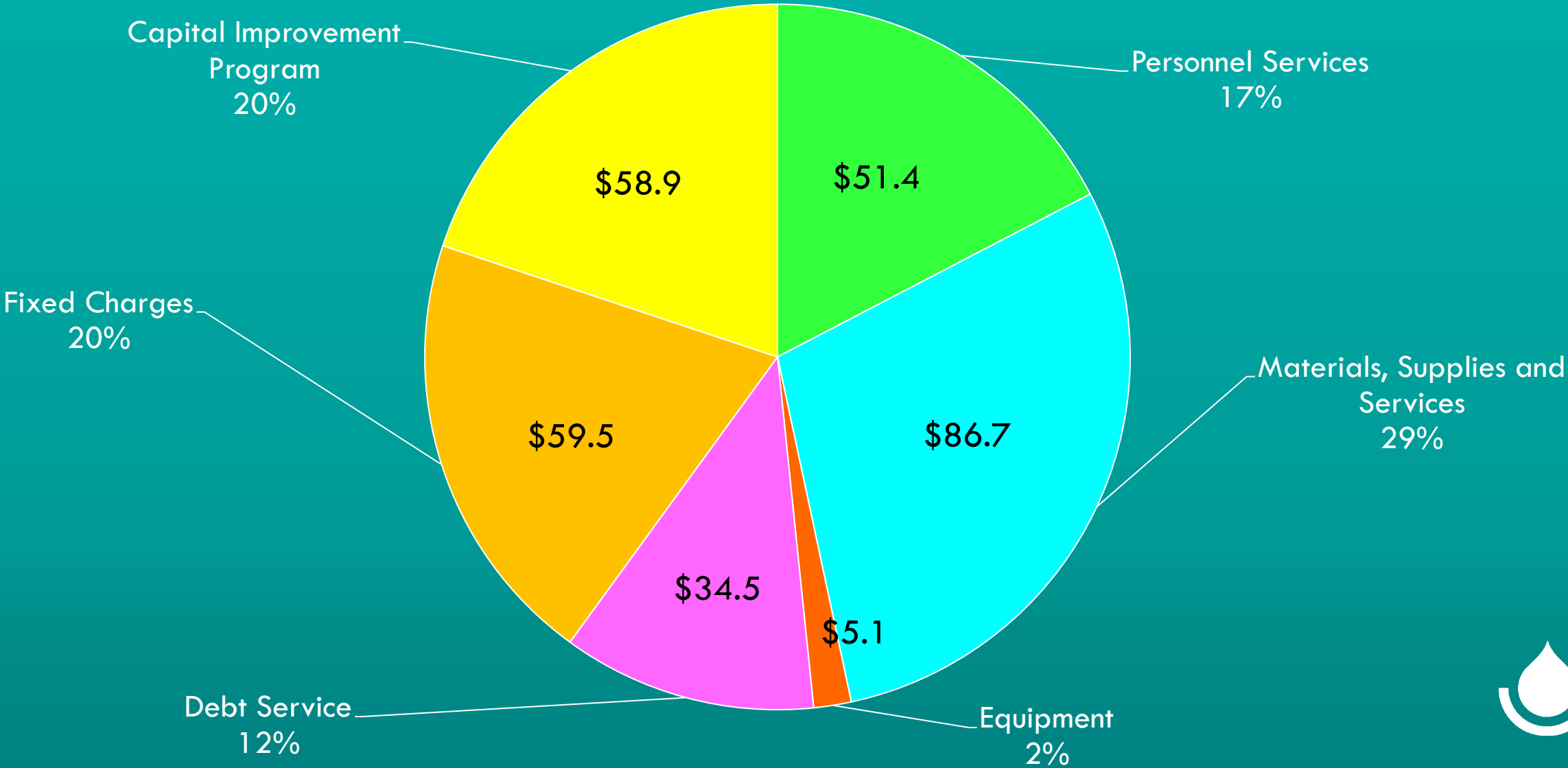
4.4.3 Net Working Capital – FY21 **105 Days**

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

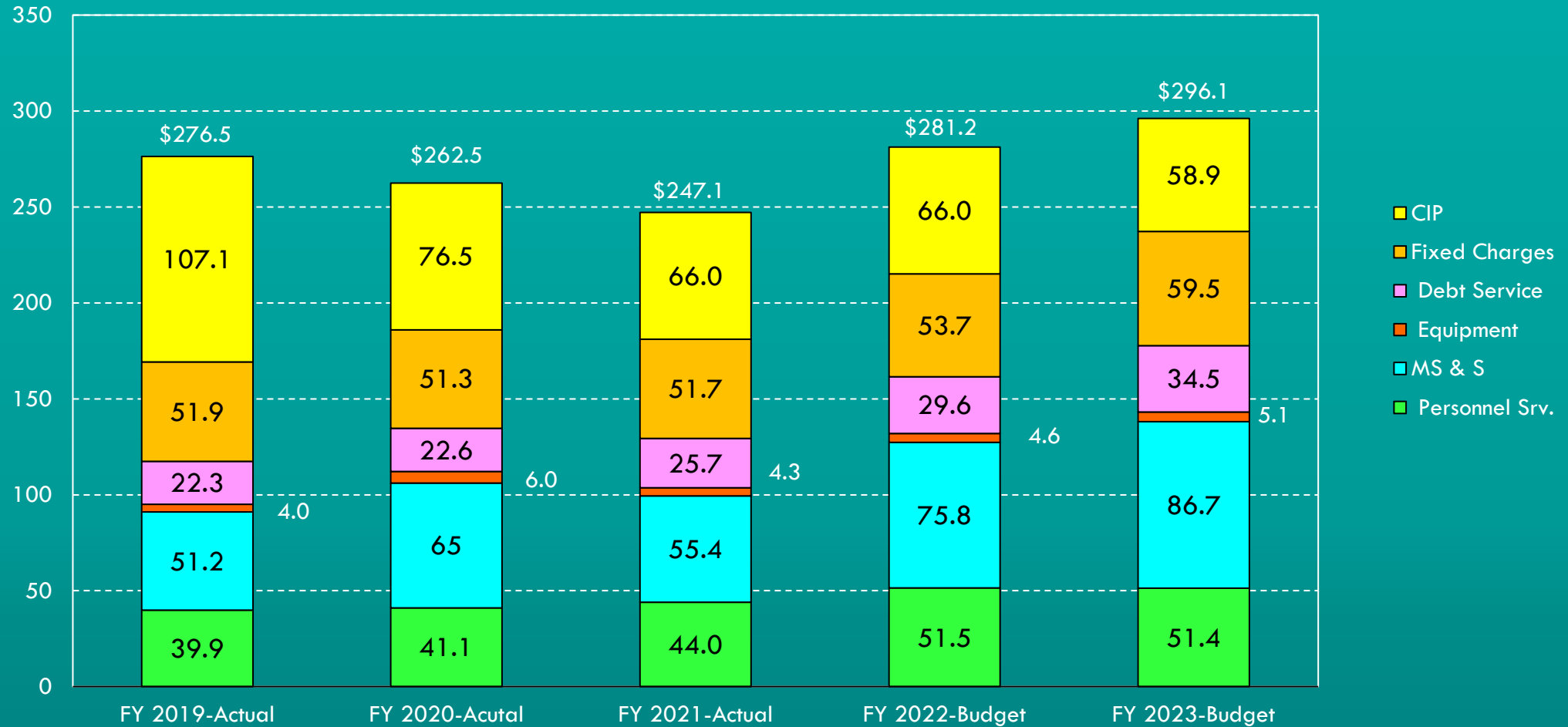


OPERATING FUND EXPENDITURES FOR FY 2023

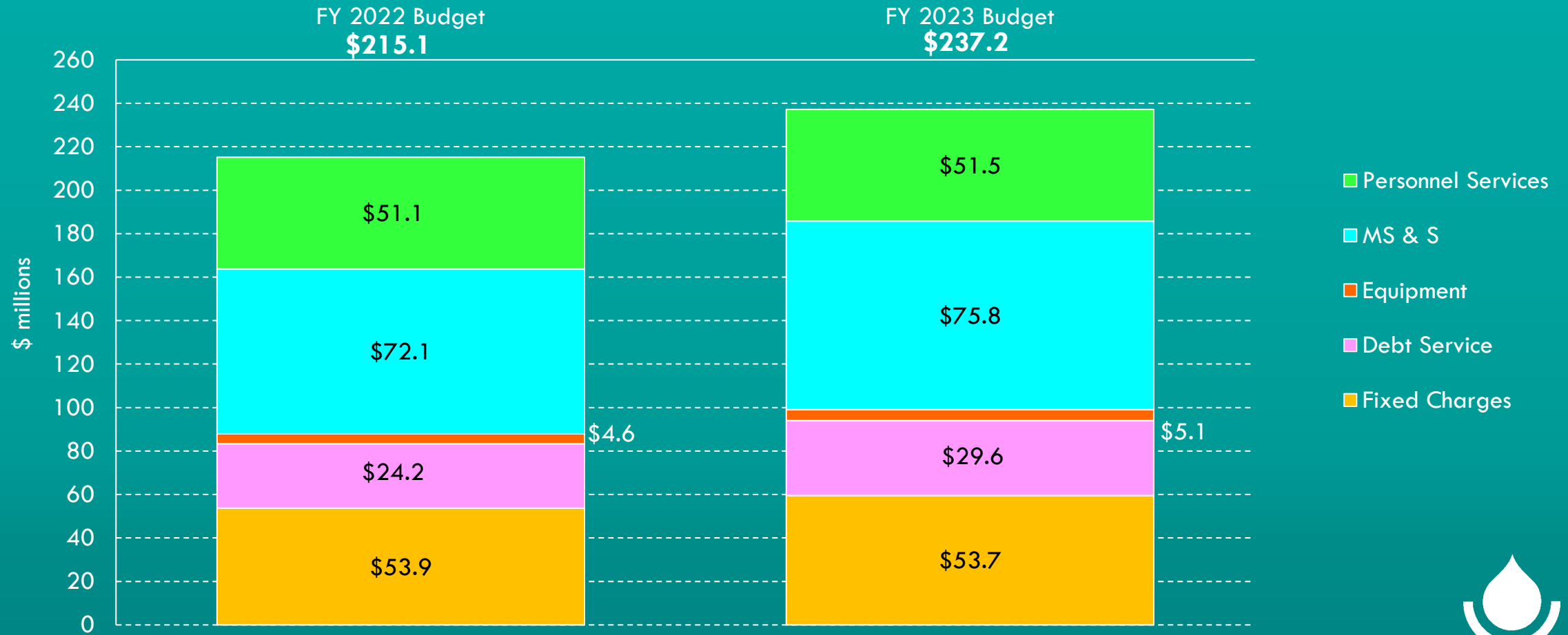
\$296.1 million



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
- \$40 thousand decrease in salaries or -0.1%
- 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)

- \$10.9 million increase in MS&S or +14.4% increase
 - Primarily due to two initiatives:
 - \$4.3 million increase in funding in the Information Technology Division to implement a much-needed upgrade to our Customer Account System (CC&B)
 - \$2.1 million in the Water Quality Division to address impacts from the Red Hill Bulk Fuel Storage Facility Crisis
 - The remaining (\$4.5M) increase represents a 2.1% increase over FY22
 - Aligns with the LRFP



HIGHLIGHTS OF THE OPERATING BUDGET

Equipment

- \$486 thousand or +10.6% for new and replacement fleet equipment
 - \$1 million for two new mobile generators (75% FEMA reimbursable)

Debt Service

- \$4.9 million increase or +10.9% increase
 - \$4.4 million increase in principal and interest payments on bonds payable
 - \$506 thousand increase in SRF payments



HIGHLIGHTS OF THE OPERATING BUDGET

Fixed Charges

- \$5.8 million increase or +10.9% increase
 - +\$4.1 million increase in electricity costs
 - +\$1.7 million increase in Employee Benefits (ERS and Health Benefits for Employees and Retirees)



REVENUE HIGHLIGHTS

- Total revenues are projected to increase by about \$9.8 million or +3.9%
 - Metered water revenues are projected to slightly increase by \$9.5 million or +4% due to the rate adjustment scheduled in FY2023
 - Other revenues are projected to increase by \$220 thousand or +2.4% due to an increase in interest income



REVENUE PROJECTIONS FY 2023

Revenue Sources	FY 2021 Actual	FY 2022 Budget	FY 2023 Budget	% Change
Metered Sales				
Potable & Non-Potable Water	\$228,654,473	\$233,300,000	\$243,000,000	4.2%
Recycled Water	\$6,179,268	\$6,408,000	\$6,200,000	-3.2%
Other Revenues	\$9,352,815	\$9,140,000	\$9,360,000	2.4%
TOTAL REVENUES	\$236,753,667	\$248,848,000	\$258,560,000	3.9%



OPERATING FUND REVENUES (\$ MILLIONS)



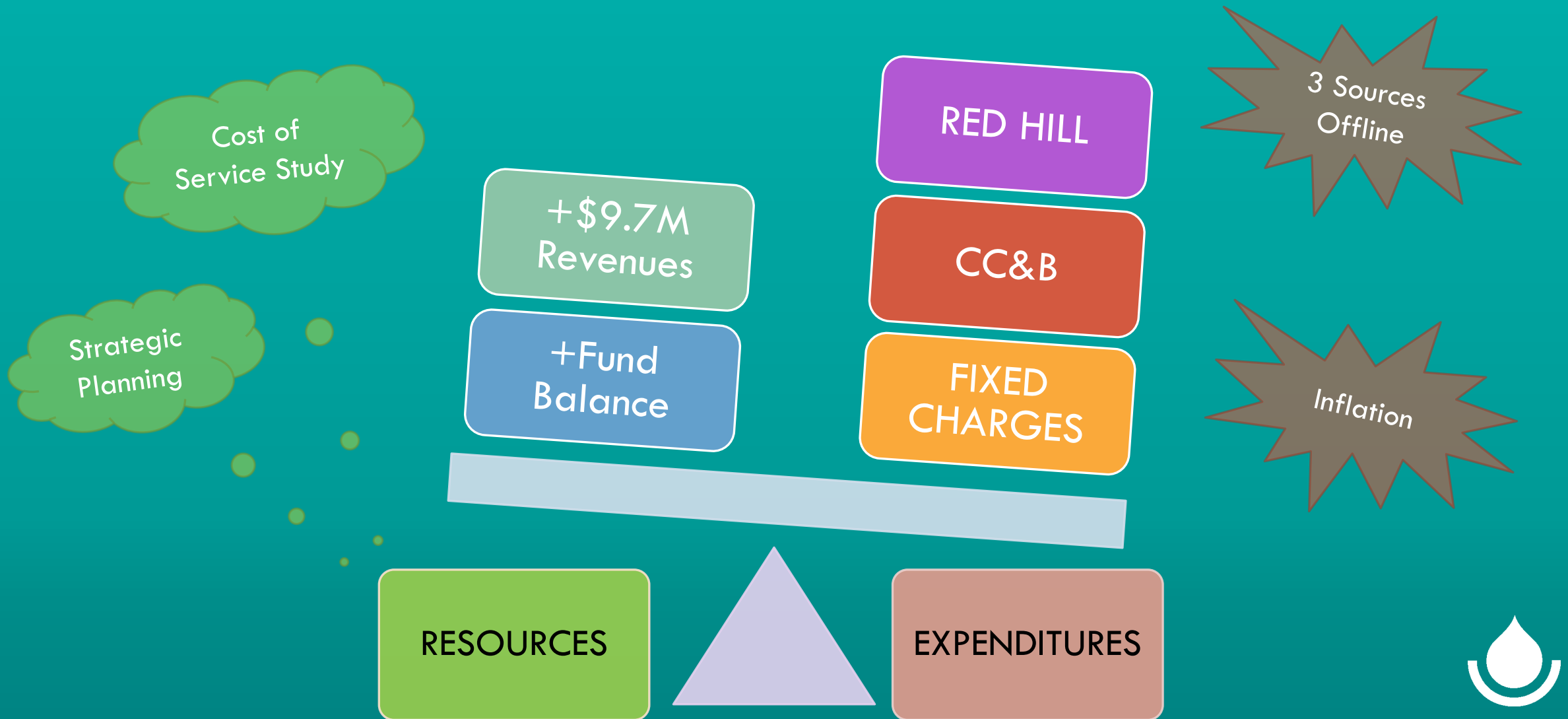
OPERATING FUND REVENUE & EXPENDITURE SUMMARY

(MILLIONS OF DOLLARS)

	FY 2022	FY 2023	Change	
	Adopted	Proposed	\$ Mil.	%
Revenues	\$248.8	\$258.6	\$9.8	3.9%
Total Operating Expenditures	\$281.2	\$296.1	\$14.9	5.3%



FY 2023 EXPENDITURES HAVE GREATLY INCREASED



FY 2023 CAPITAL IMPROVEMENT PROGRAM BUDGET

JASON TAKAKI, P.E. – CAPITAL PROJECTS DIVISION

MAY 23, 2022

WWW.BOARDOFWATERSUPPLY.COM



FY 2023 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 2023

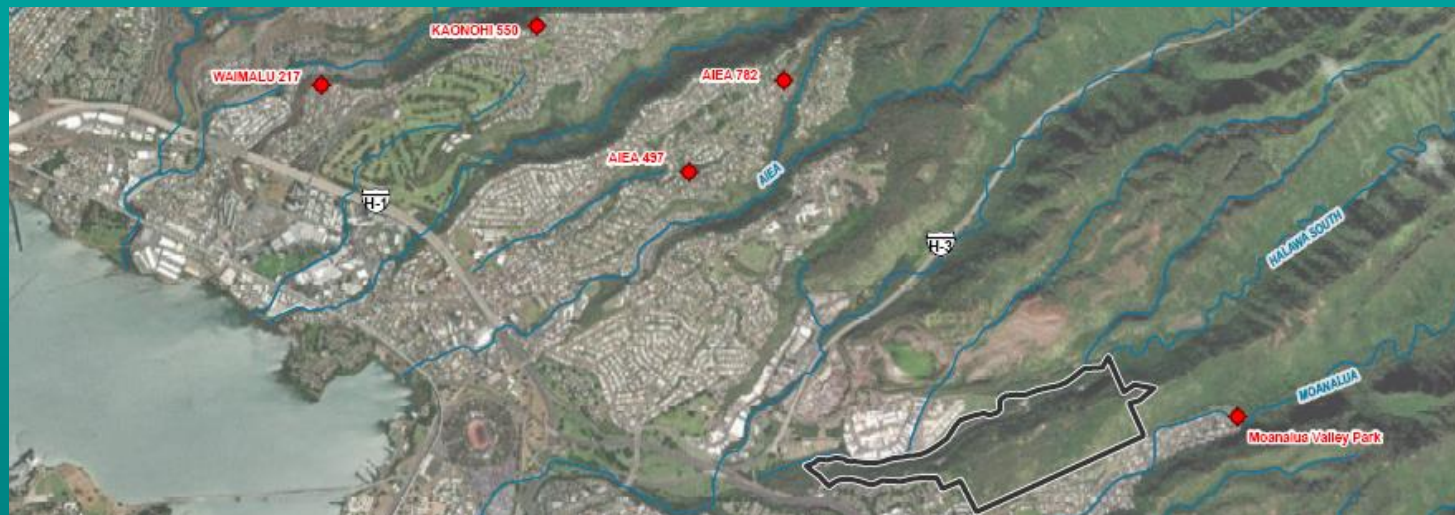
	Categories	Operating Fund	Operating Fund (SRF Eligible)	Special Expendable Fund	Improvement Fund	Extramural Fund	Total
I.	Research & Development	\$ 19,999,500	---	---	---	---	\$ 19,999,500
II.	Renewal & Replacement	13,850,000	500,000	---	58,320,000	25,300,000	97,970,000
III.	Capacity Expansion	---	---	23,950,000	---	---	23,950,000
	Subtotal	33,849,500	500,000	23,950,000	58,320,000	---	141,919,500
	Construction Cost Index	3,051,825	---	3,300,000	7,803,000	3,585,000	17,739,825
	Contract Adjustment	21,450,000	---	---	---	---	21,450,000
	Total	\$ 58,351,325	\$ 500,000	\$ 27,250,000	\$ 66,123,000	\$ 28,885,000	\$ 181,109,325



PROJECT CATEGORY HIGHLIGHTS

Research and Development (\$20 million)

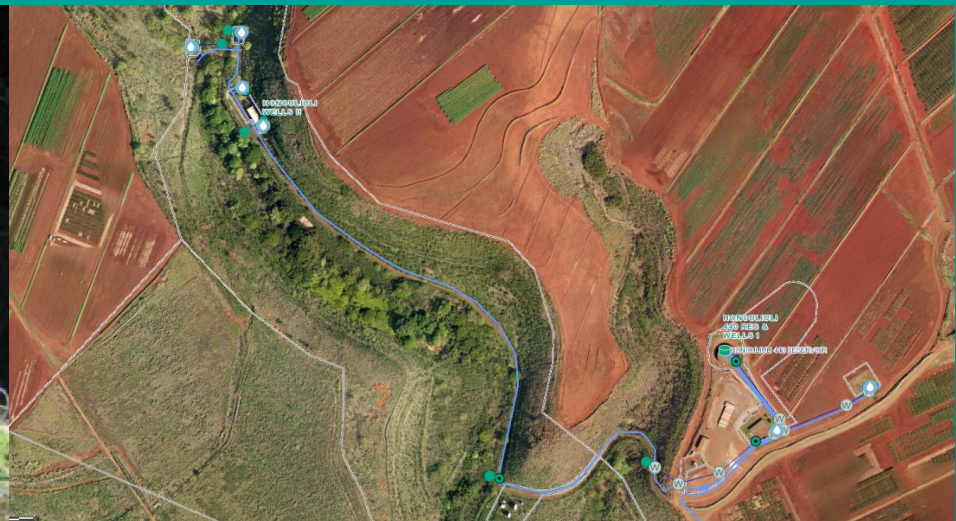
- Exploratory and Monitoring Wells for Red Hill Contamination Response
- Construction Management for Various BWS Construction Projects
- Manoa Well II Exploratory Well



PROJECT CATEGORY HIGHLIGHTS

Renewal and Replacement (\$98 million)

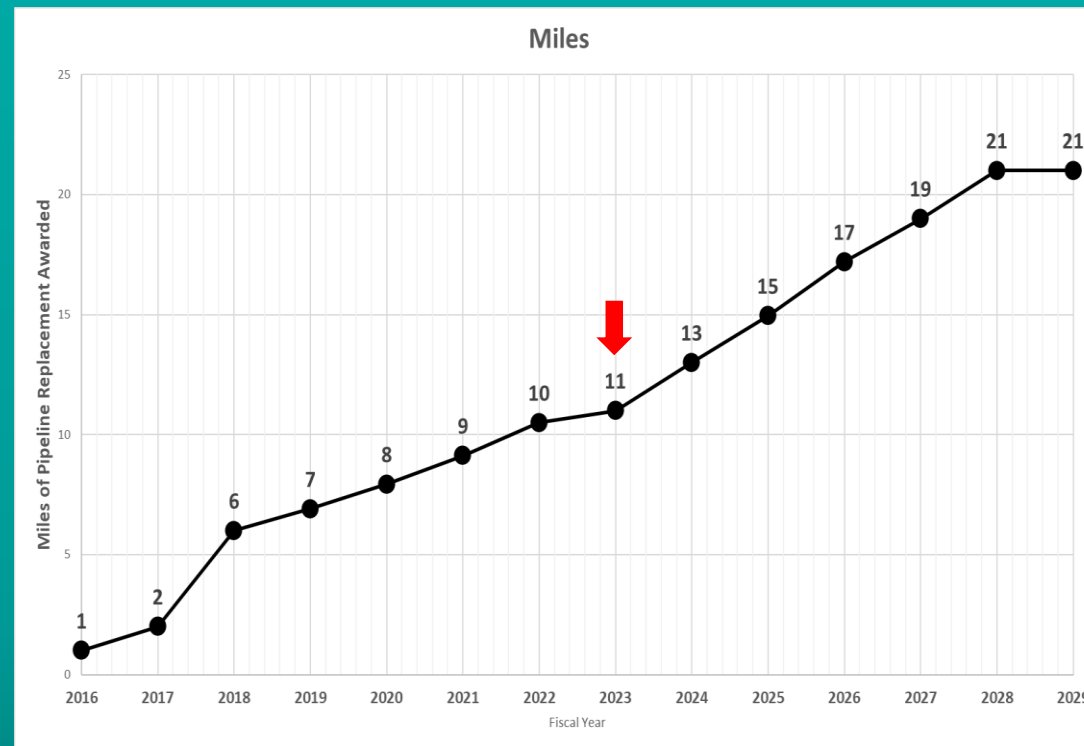
- Mililani Wells IV Pumps Replacement
- Haleiwa Wells Renovation
- Honouliuli Wells II MCC Replacement



PROJECT CATEGORY HIGHLIGHTS

Renewal and Replacement (continued)

- Main replacement construction in Maili, Aiea, Foster Village, Moanalua, Palolo, Diamond Head, – **4.1 miles**
- Main replacement design in various locations – **5 miles**



PROJECT CATEGORY HIGHLIGHTS

Renewal and Replacement (continued)

- Wilhelmina Rise 811 Reservoir Replacement
- Temporary Pumping Connections
- Pump Station Instrumentation & Controls



PROJECT CATEGORY HIGHLIGHTS

Renewal and Replacement (continued)

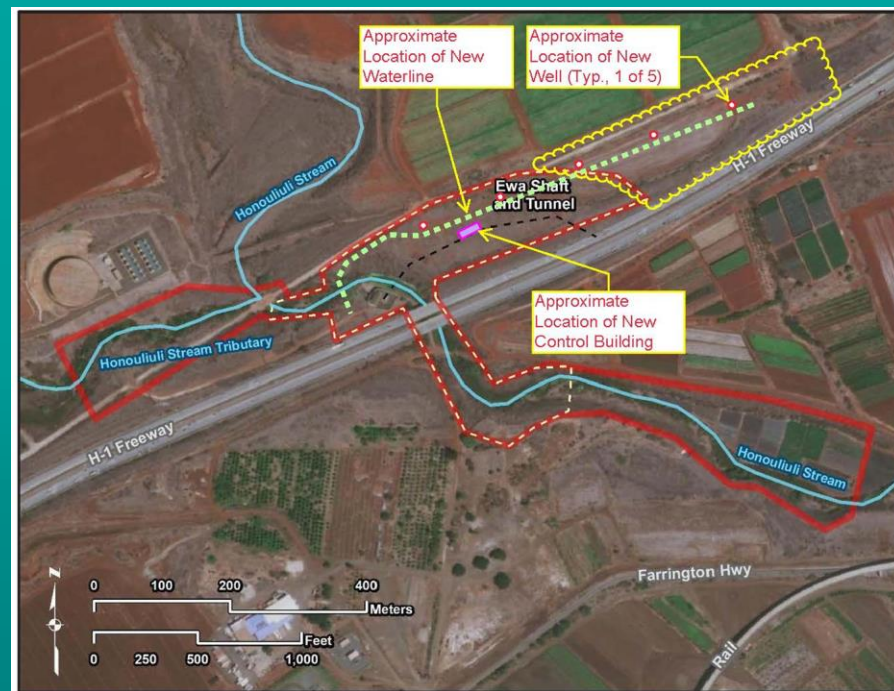
- Nuuanu Reservoir No. 1 Dam Improvements
- Pump Renewal and Replacement
- Facility Repair and Renovations
- Security Improvements at Various Locations



PROJECT CATEGORY HIGHLIGHTS

Capacity Expansion (\$23.9 million)

- Kalaeloa Seawater Desalination Facility
- Ewa Shaft Tunnel Improvements – exploratory wells



FY 2023 BUDGET SUMMARY

	Operating Fund	Operating Fund - SRF Eligible	Special Expendable Fund	Improvement Fund	Extramural Fund	TOTAL - All Funds
Operating Budget	237,240,444	-	-	-	-	- 237,240,444
Capital Improvement Program	58,351,325	500,000	27,250,000	66,123,000	28,885,000	181,109,325
Total - All Funds	295,591,769	500,000	27,250,000	66,123,000	28,885,000	418,349,769





Mahalo!

BOARD OF WATER SUPPLY

FY 2023 Budget - Public Hearing

Raelynn Nakabayashi & Jason Takaki, P.E.

rnakabayashi@hbws.org & jtakaki@hbws.org

boardofwatersupply.com for more information

May 23, 2022

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

BOARD OF WATER SUPPLY

City and County of Honolulu
Honolulu, Hawaii



2023 BUDGET

For the Fiscal Year Beginning July 1, 2022 and
Ending June 30, 2023

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

**OPERATING AND CAPITAL IMPROVEMENT PROGRAM BUDGET
For the Fiscal Year Beginning July 1, 2022 and Ending June 30, 2023**

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

Dawn B. Szewczyk. P.E., Ex-Officio

SUBMITTED BY:



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

APPROVED:



BRYAN P. ANDAYA, Chair

May 23, 2022

May 23, 2022

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, 2022 to June 30, 2023 (FY 2023).

FINANCIAL PLAN

The proposed Operating Budget for FY 2023 is based on total operating fund resources of \$302 million, to be derived from operating revenues of \$258.6 million and an estimated carryover balance from FY 2021 of \$43.4 million. The carryover balance results from the estimated operating fund balance that is unappropriated.

The proposed operating fund expenditure allocations are \$237.2 million for operating expenses and \$58.9 million for the Capital Improvement Program (CIP) budget. A projected ending balance of \$5.9 million will be unappropriated.

The proposed CIP budget totals \$181.1 million and is funded by \$58.9 million from the Operating Fund¹; \$66.1 million from the Improvement Fund², \$27.2 million from the Special Expendable Fund³ and \$28.9 million from the Extramural Fund⁴. Of the \$58.9 million in Operating Funds proposed for the CIP, \$500 thousand is eligible for participation in the State of Hawaii Department of Health State Revolving Fund (SRF) loan program.

¹"Operating Fund" is defined as rate revenue or cash

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

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"Extramural Fund" is a restricted fund, established by Resolution No. 778, 2007, in which funds received from any governmental agency or private entity, pursuant to negotiated agreements, contracts and/or grants, are deposited and separately accounted for.

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 2023, we are projecting total revenues of \$258.6 million, which is \$9.7 million or 3.9 percent more than total revenues budgeted for FY 2022.

Revenue Sources	FY 2021 Actual	FY 2022 Budget	FY 2023 Budget	Percent Change FY 2023 over FY 2022
Metered Sales				
Potable and Non-Potable* Water	228,645,473	233,300,000	243,000,000	4.2%
Recycled Water	6,179,268	6,408,000	6,200,000	-3.2%
Other Revenues	9,352,815	9,140,000	9,360,000	2.4%
Total Revenues	244,177,556	248,848,000	258,560,000	3.9%

*Non-Potable Water is water that is not of drinking water quality, but which may still be used for many other purposes, depending on its level of quality. This may also refer to brackish water.

Metered Sales – Potable Water and Non-Potable

Potable and non-potable water sales are projected to increase by \$9.7 million or 4.2 percent more than the FY 2022 budget amount of \$233.3 million. This increase is primarily due to a rate adjustment scheduled in FY 2023 and the current year (FY 2022) usage and revenue trend.

Metered Sales – Recycled Water

Recycled water sales of \$6.2 million are projected to decrease slightly by 200 thousand or 3.2 percent when compared to the FY 2022 budget. This decrease projected is based on the current year (FY 2022) usage and revenue trend.

Other Revenues

Other Revenues of \$9.4 million will be \$220 thousand higher than the FY 2022 budget amount due to an anticipated increase in interest income of \$300 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 2023 are budgeted at \$296 million. This represents an increase of \$14.9 million, or 5.3 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 \$10.9 million; an increase in funding the department's fixed charges of \$5.8 million; an increase in debt service of \$4.9 million, offset by a decrease in operating funding (cash) for projects in the Capital Improvement Program budget by \$7.1 million.

Highlights of the proposed Operating Budget for FY 2023 are presented following the next table.

Summary of Proposed Operating Budget, by Major Cost Categories

<u>Major Cost Category</u>	<u>FY 2021 Actual</u>	<u>FY 2022 Budget</u>	<u>FY 2023 Budget</u>	<u>FY 2023 over FY 2022 Amount</u>	<u>FY 2023 over FY 2022 Percent</u>
Personnel Services	44,001,120	51,485,567	51,445,200	-40,367	-0.1%
Materials, Supplies & Services	55,404,754	75,814,672	86,712,744	10,898,072	14.4%
Equipment	4,269,015	4,601,200	5,087,100	485,900	10.6%
Debt Service	25,663,549	29,588,000	34,510,900	4,922,900	16.6%
Fixed Charges	51,743,884	53,651,008	59,484,500	5,833,492	10.9%
Total Operating Expenditures	<u>181,082,322</u>	<u>215,140,447</u>	<u>237,240,444</u>	<u>22,099,997</u>	<u>10.3%</u>
Transfer to the CIP Program	66,021,658	66,026,000	58,851,325	(7,174,675)	-10.9%
Total Expenditures	<u><u>247,103,980</u></u>	<u><u>281,166,447</u></u>	<u><u>296,091,769</u></u>	<u><u>14,925,322</u></u>	<u><u>5.3%</u></u>

Personnel Services

The proposed personnel services budget of \$51.4 million is \$40 thousand or 0.1 percent less than personnel services budgeted for the current year. The proposed operating budget does not include the creation any new positions, nor does it abolish any existing positions. The departmental staffing level remains under the total of 741 authorized positions.

Materials, Supplies and Services (MS&S)

The proposed MS&S budget of \$86.7 million is \$10.9 million or 14.4 percent more than the expenditures budgeted for the current year. This is primarily due to a \$4.3 million increase in funding in the Information Technology Division to implement a much-needed upgrade to our Customer Account System (CC&B), and an increase of \$2.1 million in the Water Quality Division to address impacts from the Red Hill Bulk Fuel Storage Facility Crisis.

The increase over the current year, without considering these irregular expenditures, is \$4.5 million and would represent a 2.1 percent increase over the current year. These increases are primarily due to:

- Increases in Contractual Services of \$2.2 million in Field Operations to address maintenance on our regulated dams and in Information Technology and Executive Support to improve and maintain both our physical and cyber security; and
- Increases in Professional Services of \$1.5 million to support Water Resources and Capital Projects as they implement the Water Master Plan with an increasing Capital Improvement Program; and
- Increases in Treatment expenses, reflected in Other Materials & Supplies and Non-Potable Water Treatment Plant Costs, of \$995 thousand.

Equipment

The proposed equipment budget of \$5.1 million is \$486 thousand or 10.6 percent more than the amount budgeted in FY 2022. This is primarily due to the funding of \$1 million for two new mobile generators to increase system resiliency in the event of commercial power outages. While these generators will be purchased with Operating Funds, the Hawaii Emergency Management Agency (HI-EMA) facilitated the award of Hazard Mitigation Grant Program funding for the Board of Water Supply. We expect to recover 75% of our costs for these two new mobile generators from the Federal Emergency Management Agency, per our grant agreement with them.

Debt Service

The total debt service requirement for FY 2023 is \$34.5 million, which is \$4.9 million or 16.6 percent more than the amount budgeted in FY 2022. Reflective of our growing Capital Improvement Program and increasing financing costs, in FY 2023, payments to the State of Hawaii/Department of Health State Revolving Fund (SRF) loan program are scheduled to increase by \$503 thousand and principal and interest payments on the department's bonds payable is increasing by \$4.4 million.

Fixed Charges

The proposed fixed charges budget of \$59.5 million is \$5.8 million or 10.9 percent more than the amount budgeted for FY 2022. This increase is primarily due to increased electricity costs of \$4.1 million to power the department's pumping stations, reservoirs, and facilities; and \$1.7 million increase in employee benefits (Employee Retirement System – ERS, Health Benefits and Other Post-Employment Benefits – OPEB).

PART II. CAPITAL IMPROVEMENT PROGRAM (CIP) BUDGET

A CIP budget of \$181.1 million is proposed for FY 2023 to be funded as follows: Operating Fund¹ -- \$58.9 million; Improvement Fund² -- \$66.1 million; Special Expendable Fund³ -- \$27.2 million; and Extramural Fund⁴ -- \$28.9 million. Of the \$58.9 million in CIP projects that will be funded through the Operating Fund¹; \$500 thousand 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 \$20 million for research and development; \$98 million for the renewal and replacement of various BWS pipelines, facilities, and pumping stations; and \$23.9 million for capacity expansion. The CIP cost categories and project descriptions are summarized starting on page CIP-SUMM.

¹"Operating Fund" is defined as rate revenue or cash

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

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

⁴"Extramural Fund" is a restricted fund, established by Resolution No. 778, 2007, in which funds received from any governmental agency or private entity, pursuant to negotiated agreements, contracts and/or grants, are deposited and separately accounted for.

Red Hill Bulk Fuel Storage Facility Crisis and BWS Capital Program

As a result of the fuel release and water contamination crisis stemming from the Red Hill Bulk Fuel Storage Facility (RHBFSF), the BWS has already incurred and continues to incur costs in response. The contamination of the Moanalua-Waimalu aquifer led to the BWS decision to shut down its Halawa Shaft, Halawa Wells, and Aiea Wells as a precaution to protect our customers from the imminent peril posed by the RHBFSF and its detrimental impact on the irreplaceable groundwater resources in the area. In doing so, this has reduced our capacity to provide water service to the metropolitan Honolulu and Aiea-Halawa areas. Under normal operations, Halawa Shaft provides 20% of our water supply, serving almost half the population of Oahu; while Halawa Wells and Aiea Wells provide about 50% of the supply capacity for the Aiea-Halawa area. The lack of data and information on underground fuel migration or plume in the aquifer makes it difficult to determine if Halawa Shaft, Halawa Wells, and Aiea Wells can ever be turned on safely to pump water into these two water systems. As a precaution, these three wells are shutdown indefinitely.

The BWS continues to monitor the situation very closely and this Fiscal Year 2023 budget reflects our response efforts. We have programmed several projects aimed at increasing the water supply, protecting our existing water resources, and increasing connectivity within our existing water systems. This includes projects in Research and Development for the planning, designing, and constructing of three new exploratory wells to find alternative water sources and three additional sentinel monitoring wells in Halawa Valley to identify the extent of the contaminant plume; and the testing of existing non-production wells to assess their renewed use as potable water sources. Within Renewal and Replacement, Facilities, we have programmed planning and designing interconnectivity within our water systems. Within Capacity Expansion, Pumps, we have programmed three additional new source projects.

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.

Chair and Members
Board of Water Supply
May 23, 2022
Page 8

The Special Expendable fund balance on June 30, 2021 was \$57,708,998. The Special Expendable fund is being used to fund \$20.6 million of CIP expansion projects in FY 2022 and \$27.2 million of CIP expansion projects in FY 2023.

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 1,401 dwelling units. This equates to \$1,978,845.26 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', is positioned above the printed name.

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 2023**

	Operating Fund	Operating Fund - SRF Eligible	Special Expendable Fund	Improvement Fund	Extramural Fund	TOTAL - All Funds
Operating Budget	237,240,444	-	-	-	-	237,240,444
Capital Improvement Program	58,351,325	500,000	27,250,000	66,123,000	28,885,000	181,109,325
Total - All Funds	<u>295,591,769</u>	<u>500,000</u>	<u>27,250,000</u>	<u>66,123,000</u>	<u>28,885,000</u>	<u>418,349,769</u>

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**BOARD OF WATER SUPPLY
OPERATING AND CAPITAL IMPROVEMENT PROGRAM BUDGET
FISCAL YEAR 2023
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II. CAPITAL IMPROVEMENT PROGRAM (CIP) BUDGET

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**Board of Water Supply
Operating Budget
Fiscal Year 2023**

Department Summary

Resources and Expenditures	FY2021 Actual	FY2022 Adopted Budget	FY2023 Proposed Budget
Beginning Balance	47,053,542	39,772,388	43,468,351
Revenues	244,177,556	248,848,000	258,560,000
Lapses/Adjustments	8,608,611	0	0
Total Resources	299,839,709	288,620,388	302,028,351
Operating Expenditures	181,082,323	215,140,447	237,240,444
Capital Program	66,021,658	66,026,000	58,851,325
Transfer to Special Expendable Fund			
Total Expenditures	247,103,981	281,166,447	296,091,769
Ending Balance	52,735,728	7,453,941	5,936,582

Board of Water Supply
Operating Budget Revenues
Fiscal Year 2023

Department Summary

Revenues	FY2021 Actual	FY2022 Adopted Budget	FY2023 Proposed Budget
Metered Revenue - Potable Water	228,645,473	233,300,000	243,000,000
Metered Revenue - Recycled Water (R-1)	3,511,358	3,484,000	3,500,000
Metered Revenue - Recycled Water (RO)	2,667,910	2,924,000	2,700,000
Private Fire Protection	640,278	650,000	650,000
Ocean Cooling Revenues	1,500,705	1,500,000	1,500,000
Other Water Revenues	243,480	320,000	280,000
Revenues from Water Service Installations	490,398	550,000	500,000
Revenues from Merchandising & Jobbing (M&J)	289,370	280,000	300,000
Interest Income - Operating	5,836,894	5,500,000	5,800,000
Miscellaneous Non-Operating Revenue	140,504	140,000	140,000
Non-Operating Rental Income	211,186	200,000	190,000
Total	244,177,556	248,848,000	258,560,000

**Board of Water Supply
Operating Budget Expenditures
Fiscal Year 2023**

Department Summary

Expenditure Classification	FY2021 Actual	FY2022 Adopted Budget	FY2023 Proposed Budget
Personnel Services	44,001,120	51,485,567	51,445,200
Materials, Supplies and Services	55,404,754	75,814,672	86,712,744
Equipment	4,269,015	4,601,200	5,087,100
Departmental Fixed Charges	51,743,884	53,651,008	59,484,500
Debt Service	25,663,549	29,588,000	34,510,900
Operating Expenditures	181,082,323	215,140,447	237,240,444
Transfer to Capital Improvement Program	66,021,658	66,026,000	58,851,325
	0	0	0
Total Expenditures	247,103,981	281,166,447	296,091,769

Board of Water Supply
Operating Budget Expenditures
Fiscal Year 2023

Department Summary by Division/Office

Expenditure Classification (Personnel Services, Materials, Supplies and Services, and Equipment)	FY2021 Actual	FY2022 Adopted Budget	FY2023 Proposed Budget
Manager's Office	806,426	922,450	1,008,850
Executive Support Office	6,799,043	9,054,865	9,913,447
Communications Office	1,319,673	1,375,439	1,457,866
Human Resources Office	590,376	715,000	845,900
Water Quality	9,422,654	13,320,610	15,642,285
Customer Care	4,639,596	5,483,410	5,263,140
Land	354,056	1,032,990	485,700
Water Resources	10,340,117	14,158,982	14,415,075
Field Operations	28,130,906	36,511,525	37,381,490
Capital Projects	7,747,497	8,362,200	9,196,800
Water System Operations	15,188,973	19,175,600	19,818,275
Information Technology	13,726,164	15,829,068	21,914,066
Finance	4,609,409	5,959,300	5,902,150
Total of Divisions and Offices	103,674,889	131,901,439	143,245,044
Departmental Fixed Charges	51,743,884	53,651,008	59,484,500
Debt Service	25,663,549	29,588,000	34,510,900
Total Operating Expenditures	181,082,323	215,140,447	237,240,444

**Board of Water Supply
Expenses by Account Type
Fiscal Year 2023**

Department Summary by Division/Office

Division and Offices	Personnel Services	Materials, Supplies, and Services	Equipment	Debt Service and Dept Fixed Charges	FY2023 Proposed Budget
Manager's Office	622,800	386,050	0	0	1,008,850
Executive Support Office	1,367,700	8,545,747	0	0	9,913,447
Communications Office	862,186	595,680	0	0	1,457,866
Human Resources Office	632,500	213,400	0	0	845,900
Water Quality	2,119,900	13,498,385	24,000	0	15,642,285
Customer Care	4,174,800	1,077,340	11,000	0	5,263,140
Land	338,600	147,100	0	0	485,700
Water Resources	2,724,534	11,640,541	50,000	0	14,415,075
Field Operations	18,175,500	19,166,490	39,500	0	37,381,490
Capital Projects	6,357,800	2,589,000	250,000	0	9,196,800
Water System Operations	7,347,100	8,613,575	3,857,600	0	19,818,275
Information Technology	4,251,280	16,872,786	790,000	0	21,914,066
Finance	2,470,500	3,366,650	65,000	0	5,902,150
Total:	51,445,200	86,712,744	5,087,100	0	143,245,044
Fixed Charges and Debt Service	0	0	0	93,995,400	93,995,400
Grand Total	51,445,200	86,712,744	5,087,100	93,995,400	237,240,444

**Board of Water Supply
Position Budgets
Fiscal Year 2023**

Department Summary by Division/Office

Division Name	Positions				Salary			
	Perm	LTA	PSC	Total	Perm	LTA	PSC	Total
Manager's Office	6.0	0.0	0.0	6.0	620,882	0	0	620,882
Executive Support Office	19.0	0.0	3.0	22.0	1,170,418	0	140,362	1,310,780
Communications Office	11.0	0.0	0.0	11.0	788,375	0	0	788,375
Human Resources Office	10.0	0.0	0.0	10.0	627,492	0	0	627,492
Water Quality	32.0	0.0	3.0	35.0	1,840,743	0	79,085	1,919,828
Customer Care	68.0	4.0	2.0	74.0	3,432,457	162,784	54,845	3,650,086
Land	5.0	0.0	0.0	5.0	311,641	0	0	311,641
Water Resources	36.0	0.0	0.0	36.0	2,585,436	0	0	2,585,436
Field Operations	258.0	0.0	9.0	267.0	14,519,636	0	246,300	14,765,936
Capital Projects	81.0	0.0	0.0	81.0	5,642,606	0	0	5,642,606
Water System Operations	108.0	0.0	1.0	109.0	6,448,630	0	0	6,448,630
Information Technology	55.0	0.0	1.0	56.0	3,933,283	0	78,612	4,011,895
Finance	42.0	0.0	0.0	42.0	2,335,222	0	0	2,335,222
Total	731.0	4.0	19.0	754.0	44,256,820	162,784	599,204	45,018,807

Board of Water Supply
Operating Budget
Debt Service
Fiscal Year 2023

DEBT SERVICE

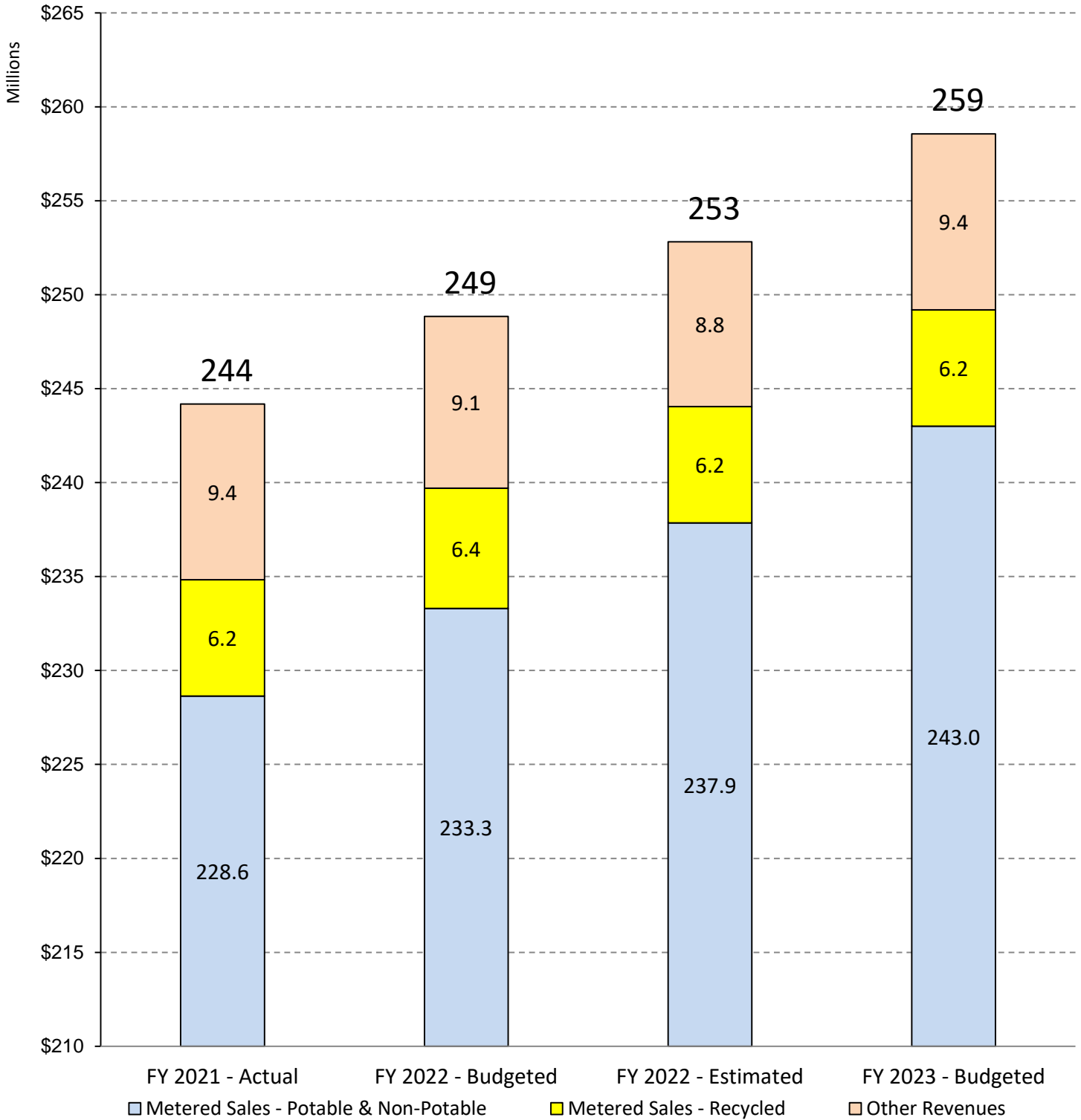
ISSUE	FY 2021 Actual	FY 2022 Budget	FY 2023 Budget
Water System Revenue Bonds:			
Series 2012A	7,819,875	8,962,000	-
Series 2014 A & B	7,029,476	5,112,000	8,555,000
Series 2020 A & B	4,790,455	4,791,000	4,798,000
Series 2021 A & B	821,169	3,710,000	7,142,000
Series 2022 A & B			6,514,000
Debt Service - Bonds Payable	<u>20,460,975</u>	<u>22,575,000</u>	<u>27,009,000</u>
Notes Payable:			
SRF Loans	5,202,574	8,197,000	8,791,900
Debt Service - Notes Payable	<u>5,202,574</u>	<u>8,197,000</u>	<u>8,791,900</u>
Total	<u><u>25,663,549</u></u>	<u><u>30,772,000</u></u>	<u><u>35,800,900</u></u>

Bond Issues:

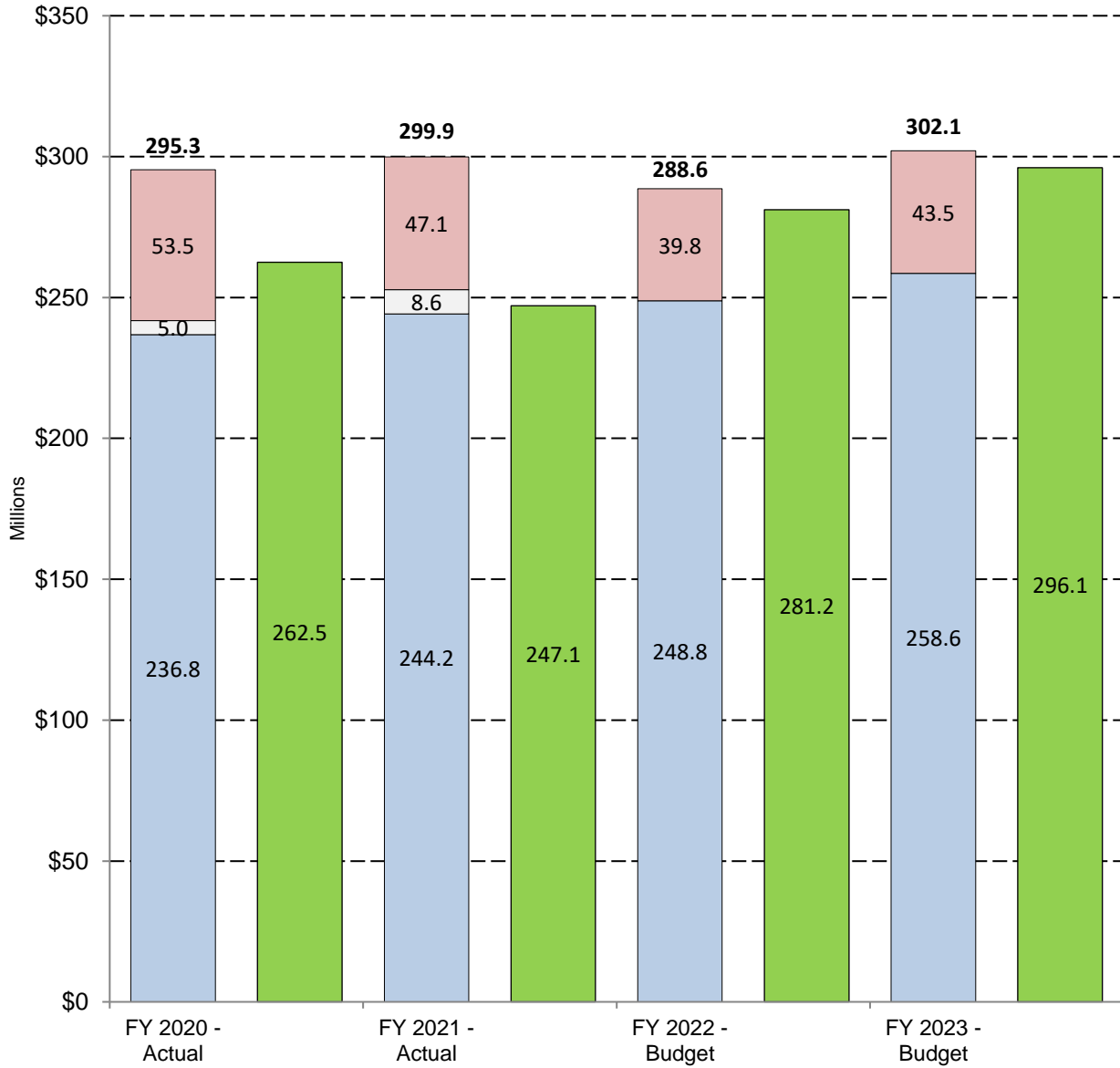
<u>Year Issued</u>	<u>Par Amount</u>	<u>Fiscal Year Expires</u>	<u>Years</u>
2012A	\$ 27,115,000	2022	10
2014A	\$ 101,655,000	2031	17
2014B	\$ 25,085,000	2032	18
2020A	\$ 59,105,000	2050	30
2020B	\$ 47,530,000	2034	14
2021A	\$ 50,020,000	2051	30
2021B	\$ 43,515,000	2032	11
2022A	\$ 82,700,000	2052	30
2022B	\$ 52,560,000	2036	14

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**BOARD OF WATER SUPPLY
OPERATING FUND REVENUES
FISCAL YEAR 2023**



**BOARD OF WATER SUPPLY
TOTAL RESOURCES VS. TOTAL EXPENDITURES
FISCAL YEAR 2023**



■ Revenues

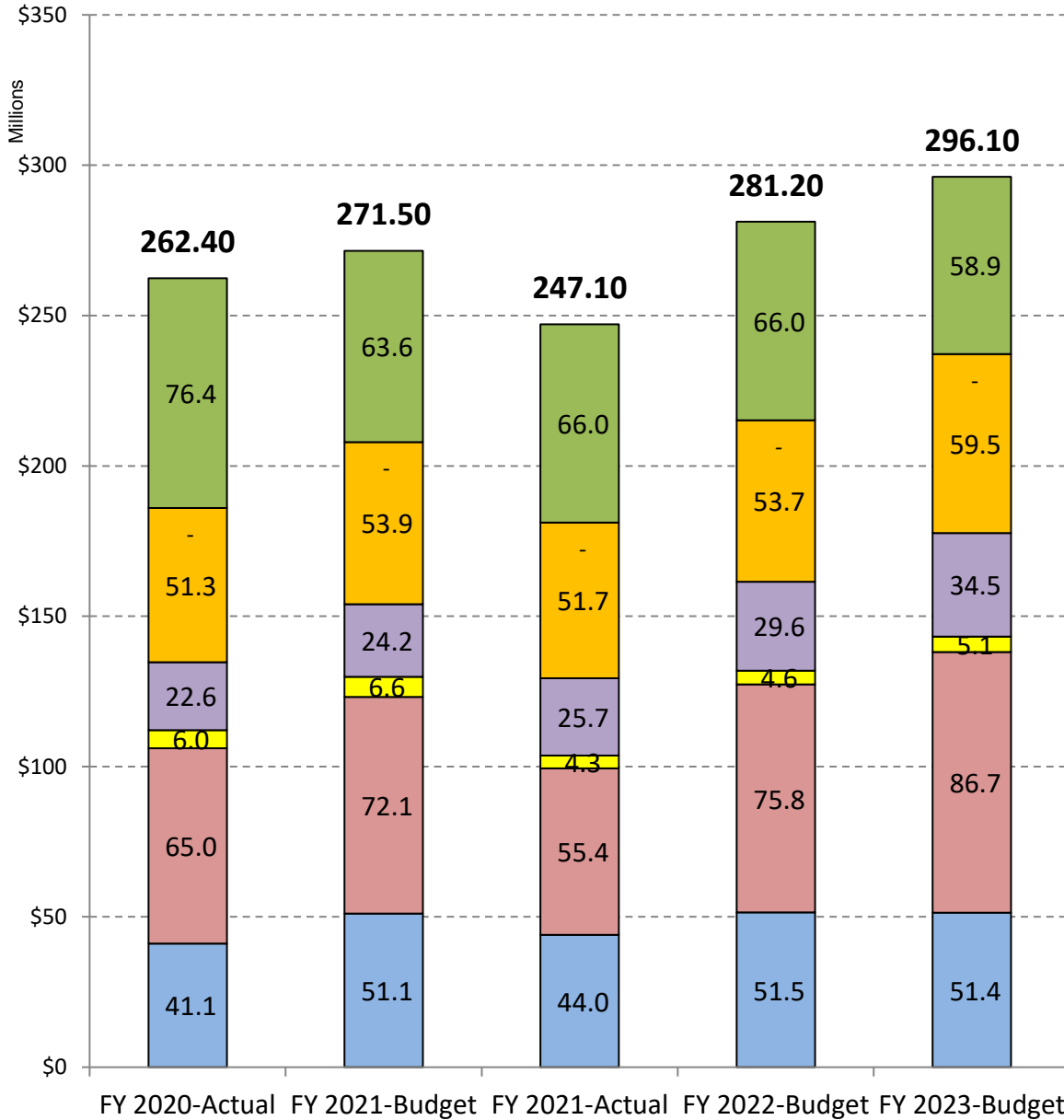
□ Lapses / Adjustments

■ Fund Balance

■ Expenditures

Fiscal Year 2023	
Fund Balance 7/1/2022	\$ 43,468,353
Revenues	\$ <u>258,560,000</u>
Total Resources	\$ 302,028,353
Total Expenditures	\$ <u>-296,091,769</u>
Fund Balance 6/30/2023	\$ <u>5,936,584</u>

**BOARD OF WATER SUPPLY
OPERATING BUDGET EXPENDITURES (INCLUDING CIP)
FISCAL YEAR 2023**



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

Fiscal Year 2023	
CIP	\$ 58,851,325
Fixed Charges	\$ 59,484,500
Debt Service	\$ 34,510,900
Equipment	\$ 5,087,100
MS&S	\$ 86,712,744
Personnel Svcs.	\$ 51,445,200
Transfer to Spec Ex	\$ -0-
Total	\$ 296,091,769

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PART I

**OPERATING
BUDGET**

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**Board of Water Supply
Operating Budget
Fiscal Year 2023**

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	FY2021 Actual	FY2021 Adopted Budget	FY2022 Adopted Budget	FY2023 Proposed Budget	Change
PS 4110 - Salaries & Wages	611,393	620,100	533,800	620,800	87,000
4120 - Overtime	1,187	1,000	2,000	2,000	0
Personnel Services	612,580	621,100	535,800	622,800	87,000
M 4160 - Meals; Mileage & Uniform Allowances	50	0	0	0	0
4250 - Other Contractual Services	3,443	4,600	24,600	24,600	0
4255 - Other Services	315	31,300	58,800	58,800	0
4260 - Advertising & Publication of Notices	0	500	500	500	0
4265 - Printing	0	1,000	1,000	1,000	0
4270 - Professional Services	18,875	135,000	35,000	35,000	0
4430 - Miscellaneous Supplies	3,336	5,000	5,000	5,000	0
4460 - Other Materials & Supplies	7,115	10,000	10,000	10,000	0
4500 - Education and Training	1,740	0	0	0	0
4720 - Conference Travel & Expenses	2,165	49,240	38,240	37,640	(600)
4815 - Repair & Maint - Equipment	154	3,000	3,000	3,000	0
4910 - Miscellaneous Fees & Registration	156,652	210,710	210,510	210,510	0
Materials, Supplies and Services	193,846	450,350	386,650	386,050	(600)
Total Manager's Office	806,426	1,071,450	922,450	1,008,850	86,400

Budget Highlights

**Board of Water Supply
Operating Budget
Fiscal Year 2023**

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	FY2021 Actual	FY2021 Adopted Budget	FY2022 Adopted Budget	FY2023 Proposed Budget	Change
4110 - Salaries & Wages	1,141,650	1,228,100	1,267,100	1,310,700	43,600
4120 - Overtime	93,773	31,538	54,000	57,000	3,000
4130 - Miscellaneous (Payroll)	18,300	0	36,000	0	(36,000)
Personnel Services	1,253,723	1,259,638	1,357,100	1,367,700	10,600
4160 - Meals; Mileage & Uniform Allowances	4,446	1,500	1,150	1,000	(150)
4250 - Other Contractual Services	1,202,281	2,379,399	2,742,330	3,227,850	485,520
4251 - Software Licenses and Maintenance	28,000	30,000	35,000	35,000	0
4265 - Printing	426	850	600	600	0
4270 - Professional Services	1,169,633	1,489,200	1,379,200	1,490,000	110,800
4430 - Miscellaneous Supplies	58,048	14,800	25,600	10,000	(15,600)
4460 - Other Materials & Supplies	283	0	0	0	0
4500 - Education and Training	2,535	4,500	4,900	14,675	9,775
4720 - Conference Travel & Expenses	486	12,000	3,500	500	(3,000)
4805 - Repair & Maint - Structures	0	20,000	25,000	0	(25,000)
4910 - Miscellaneous Fees & Registration	2,583	1,250	3,650	3,350	(300)
5700 - Insurance	1,018,347	850,000	1,110,835	1,242,772	131,937
6340 - Workers Compensation Benefits	1,057,228	1,316,000	1,316,000	1,270,000	(46,000)
6350 - Claims for Pers Injuries & Prop Damage	997,394	1,250,000	1,000,000	1,250,000	250,000
8050 - Equipment (under \$5,000)	3,631	38,600	25,000	0	(25,000)
Materials, Supplies and Services	5,545,321	7,408,099	7,672,765	8,545,747	872,982
1270 - General Plant & Equip (over \$5,000)	0	25,000	25,000	0	(25,000)
Equipment	0	25,000	25,000	0	(25,000)
Total ESO - Executive Support Office	6,799,043	8,692,737	9,054,865	9,913,447	858,582

Notes

**Board of Water Supply
Operating Budget
Fiscal Year 2023**

ESO - Executive Support Office

5105 - Executive Support Office - Administration

Section's Activity

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

Account	FY2021 Actual	FY2021 Adopted Budget	FY2022 Adopted Budget	FY2023 Proposed Budget	Change
PS 4110 - Salaries & Wages	155,106	148,800	232,800	153,900	(78,900)
4120 - Overtime	7,161	650	7,500	2,500	(5,000)
4130 - Miscellaneous (Payroll)	2,800	0	0	0	0
Personnel Services	165,068	149,450	240,300	156,400	(83,900)
4160 - Meals; Mileage & Uniform Allowances	318	0	0	0	0
4250 - Other Contractual Services	44,989	17,500	16,000	23,020	7,020
4265 - Printing	0	250	0	0	0
4270 - Professional Services	0	209,200	209,200	220,000	10,800
4430 - Miscellaneous Supplies	16,602	1,500	3,000	3,000	0
4500 - Education and Training	500	500	500	500	0
4720 - Conference Travel & Expenses	336	2,000	0	0	0
Materials, Supplies and Services	62,745	230,950	228,700	246,520	17,820
Total Executive Support Office - Administration	227,812	380,400	469,000	402,920	(66,080)

Budget Highlights

**Board of Water Supply
Operating Budget
Fiscal Year 2023**

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	FY2021 Actual	FY2021 Adopted Budget	FY2022 Adopted Budget	FY2023 Proposed Budget	Change
PS 4110 - Salaries & Wages	312,518	335,400	336,200	343,700	7,500
4120 - Overtime	1,655	6,950	6,000	5,000	(1,000)
4130 - Miscellaneous (Payroll)	2,800	0	0	0	0
Personnel Services	316,972	342,350	342,200	348,700	6,500
4160 - Meals; Mileage & Uniform Allowances	210	1,200	750	500	(250)
4250 - Other Contractual Services	23,364	17,899	17,730	18,630	900
4270 - Professional Services	1,169,633	1,050,000	1,170,000	1,270,000	100,000
4430 - Miscellaneous Supplies	8,193	7,300	7,600	7,000	(600)
4500 - Education and Training	2,035	2,750	2,900	13,175	10,275
4720 - Conference Travel & Expenses	150	10,000	3,500	500	(3,000)
4910 - Miscellaneous Fees & Registration	2,583	1,250	3,650	3,350	(300)
5700 - Insurance	1,018,347	850,000	1,110,835	1,242,772	131,937
6340 - Workers Compensation Benefits	1,057,228	1,316,000	1,316,000	1,270,000	(46,000)
6350 - Claims for Pers Injuries & Prop Damage	997,394	1,250,000	1,000,000	1,250,000	250,000
Materials, Supplies and Services	4,279,136	4,506,399	4,632,965	5,075,927	442,962
Total Risk Management	4,596,108	4,848,749	4,975,165	5,424,627	449,462

Budget Highlights

**Board of Water Supply
Operating Budget
Fiscal Year 2023**

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	FY2021 Actual	FY2021 Adopted Budget	FY2022 Adopted Budget	FY2023 Proposed Budget	Change
PS 4110 - Salaries & Wages	186,860	159,000	92,100	242,400	150,300
4120 - Overtime	1,260	6,250	6,500	6,500	0
4130 - Miscellaneous (Payroll)	8,400	0	0	0	0
Personnel Services	196,520	165,250	98,600	248,900	150,300
4160 - Meals; Mileage & Uniform Allowances	106	300	400	500	100
4250 - Other Contractual Services	1,102,870	2,344,000	2,708,600	3,186,200	477,600
4270 - Professional Services	0	100,000	0	0	0
4430 - Miscellaneous Supplies	33,126	6,000	15,000	0	(15,000)
4805 - Repair & Maint - Structures	0	20,000	25,000	0	(25,000)
8050 - Equipment (under \$5,000)	3,773	35,000	25,000	0	(25,000)
Materials, Supplies and Services	1,139,874	2,505,300	2,774,000	3,186,700	412,700
1270 - General Plant & Equip (over \$5,000)	0	25,000	25,000	0	(25,000)
Equipment	0	25,000	25,000	0	(25,000)
Total Security Office	1,336,394	2,695,550	2,897,600	3,435,600	538,000

Budget Highlights

**Board of Water Supply
Operating Budget
Fiscal Year 2023**

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	FY2021 Actual	FY2021 Adopted Budget	FY2022 Adopted Budget	FY2023 Proposed Budget	Change
PC 4110 - Salaries & Wages	193,027	213,000	218,000	214,000	(4,000)
4120 - Overtime	2,571	3,688	4,000	3,000	(1,000)
4130 - Miscellaneous (Payroll)	0	0	36,000	0	(36,000)
Personnel Services	195,598	216,688	258,000	217,000	(41,000)
4160 - Meals; Mileage & Uniform Allowances	24	0	0	0	0
4250 - Other Contractual Services	30,352	0	0	0	0
4251 - Software Licenses and Maintenance	28,000	30,000	35,000	35,000	0
4265 - Printing	426	600	600	600	0
8050 - Equipment (under \$5,000)	0	3,600	0	0	0
Materials, Supplies and Services	58,802	34,200	35,600	35,600	0
Total Management and Budget	254,400	250,888	293,600	252,600	(41,000)

Budget Highlights

**Board of Water Supply
Operating Budget
Fiscal Year 2023**

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	FY2021 Actual	FY2021 Adopted Budget	FY2022 Adopted Budget	FY2023 Proposed Budget	Change
PS 4110 - Salaries & Wages	294,139	371,900	388,000	356,700	(31,300)
4120 - Overtime	81,125	14,000	30,000	40,000	10,000
4130 - Miscellaneous (Payroll)	4,300	0	0	0	0
Personnel Services	379,565	385,900	418,000	396,700	(21,300)
4160 - Meals; Mileage & Uniform Allowances	3,789	0	0	0	0
4250 - Other Contractual Services	707	0	0	0	0
4270 - Professional Services	0	130,000	0	0	0
4430 - Miscellaneous Supplies	126	0	0	0	0
4460 - Other Materials & Supplies	283	0	0	0	0
4500 - Education and Training	0	1,250	1,500	1,000	(500)
8050 - Equipment (under \$5,000)	(142)	0	0	0	0
Materials, Supplies and Services	4,763	131,250	1,500	1,000	(500)
Total Procurement Section	384,328	517,150	419,500	397,700	(21,800)

Budget Highlights

**Board of Water Supply
Operating Budget
Fiscal Year 2023**

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, 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	FY2021 Actual	FY2021 Adopted Budget	FY2022 Adopted Budget	FY2023 Proposed Budget	Change
PC 4110 - Salaries & Wages	881,507	779,800	811,800	788,400	(23,400)
4120 - Overtime	33,892	48,000	39,172	45,078	5,906
4130 - Miscellaneous (Payroll)	5,850	26,800	27,604	28,708	1,104
Personnel Services	921,249	854,600	878,576	862,186	(16,390)
4160 - Meals; Mileage & Uniform Allowances	1,398	2,500	2,500	2,500	0
4250 - Other Contractual Services	359,474	348,378	345,504	383,559	38,055
4251 - Software Licenses and Maintenance	1,811	9,469	11,059	23,516	12,457
4265 - Printing	17,008	43,900	64,950	47,100	(17,850)
4270 - Professional Services	0	0	0	59,200	59,200
4430 - Miscellaneous Supplies	496	3,000	2,000	2,176	176
4460 - Other Materials & Supplies	15,336	35,644	45,806	61,006	15,200
4480 - Postage	382	660	15,660	660	(15,000)
4500 - Education and Training	0	250	5,030	3,100	(1,930)
4815 - Repair & Maint - Equipment	0	1,032	1,080	1,080	0
4910 - Miscellaneous Fees & Registration	2,518	684	1,018	7,550	6,532
8050 - Equipment (under \$5,000)	0	1,560	2,256	4,233	1,977
Materials, Supplies and Services	398,424	447,077	496,863	595,680	98,817
Total Communications Office	1,319,673	1,301,677	1,375,439	1,457,866	82,427

Budget Highlights

**Board of Water Supply
Operating Budget
Fiscal Year 2023**

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	FY2021 Actual	FY2021 Adopted Budget	FY2022 Adopted Budget	FY2023 Proposed Budget	Change
PS 4110 - Salaries & Wages	522,165	581,000	588,900	627,500	38,600
4120 - Overtime	17,179	5,000	5,000	5,000	0
4130 - Miscellaneous (Payroll)	11,200	0	0	0	0
Personnel Services	550,544	586,000	593,900	632,500	38,600
4160 - Meals; Mileage & Uniform Allowances	476	300	300	300	0
4250 - Other Contractual Services	2,531	130,000	30,000	130,000	100,000
4260 - Advertising & Publication of Notices	3,355	5,000	5,000	5,000	0
4430 - Miscellaneous Supplies	1,360	2,500	2,500	2,500	0
4460 - Other Materials & Supplies	5,010	6,000	6,000	6,000	0
4480 - Postage	48	100	100	100	0
4500 - Education and Training	19,159	60,000	60,000	60,000	0
4720 - Conference Travel & Expenses	5,380	16,100	16,100	8,400	(7,700)
4815 - Repair & Maint - Equipment	107	550	550	550	0
4910 - Miscellaneous Fees & Registration	2,406	550	550	550	0
Materials, Supplies and Services	39,831	221,100	121,100	213,400	92,300
1270 - General Plant & Equip (over \$5,000)	0	1,500	0	0	0
Equipment	0	1,500	0	0	0
Total Human Resources Office	590,376	808,600	715,000	845,900	130,900

Budget Highlights

**Board of Water Supply
Operating Budget
Fiscal Year 2023**

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	FY2021 Actual	FY2021 Adopted Budget	FY2022 Adopted Budget	FY2023 Proposed Budget	Change
4110 - Salaries & Wages	1,743,671	1,857,000	1,775,400	1,919,900	144,500
4120 - Overtime	200,033	320,000	200,000	200,000	0
4130 - Miscellaneous (Payroll)	41,164	70,000	60,000	0	(60,000)
Personnel Services	1,984,868	2,247,000	2,035,400	2,119,900	84,500
4160 - Meals; Mileage & Uniform Allowances	6,360	13,210	11,410	13,510	2,100
4250 - Other Contractual Services	635,009	680,500	704,100	940,800	236,700
4270 - Professional Services	6,557,263	8,815,000	10,291,000	12,191,000	1,900,000
4430 - Miscellaneous Supplies	1,352	2,820	500	2,500	2,000
4460 - Other Materials & Supplies	131,923	218,000	130,000	257,000	127,000
4500 - Education and Training	80	29,120	10,300	11,150	850
4720 - Conference Travel & Expenses	102	52,300	2,550	4,175	1,625
4815 - Repair & Maint - Equipment	3,448	36,500	29,250	39,250	10,000
4910 - Miscellaneous Fees & Registration	16,187	26,700	23,700	38,000	14,300
8050 - Equipment (under \$5,000)	62,451	67,450	8,400	1,000	(7,400)
Materials, Supplies and Services	7,414,176	9,941,600	11,211,210	13,498,385	2,287,175
1270 - General Plant & Equip (over \$5,000)	23,610	33,000	74,000	24,000	(50,000)
Equipment	23,610	33,000	74,000	24,000	(50,000)
Total WQ - Water Quality	9,422,654	12,221,600	13,320,610	15,642,285	2,321,675

Notes

**Board of Water Supply
Operating Budget
Fiscal Year 2023**

WQ - Water Quality

5250 - Water Quality Administration

Section's Activity

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

Account	FY2021 Actual	FY2021 Adopted Budget	FY2022 Adopted Budget	FY2023 Proposed Budget	Change
PS 4110 - Salaries & Wages	372,907	407,300	337,800	380,900	43,100
4130 - Miscellaneous (Payroll)	6,000	0	0	0	0
Personnel Services	378,907	407,300	337,800	380,900	43,100
M 4160 - Meals; Mileage & Uniform Allowances	0	10	10	10	0
4250 - Other Contractual Services	4,309	3,600	20,000	20,000	0
4270 - Professional Services	6,532,618	8,575,000	10,125,000	12,030,000	1,905,000
4430 - Miscellaneous Supplies	1,315	1,000	500	500	0
4460 - Other Materials & Supplies	25,444	76,000	7,000	6,000	(1,000)
4500 - Education and Training	40	21,800	1,500	4,100	2,600
4720 - Conference Travel & Expenses	102	32,700	1,550	3,000	1,450
4815 - Repair & Maint - Equipment	3,448	0	2,000	2,000	0
4910 - Miscellaneous Fees & Registration	40	2,000	0	0	0
8050 - Equipment (under \$5,000)	10,719	0	0	0	0
Materials, Supplies and Services	6,578,035	8,712,110	10,157,560	12,065,610	1,908,050
Total Water Quality Administration	6,956,942	9,119,410	10,495,360	12,446,510	1,951,150

Budget Highlights

**Board of Water Supply
Operating Budget
Fiscal Year 2023**

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 and monitors proposed rules for departmental impact. Supports the department's operational testing requirements and special water quality studies.

Account	FY2021 Actual	FY2021 Adopted Budget	FY2022 Adopted Budget	FY2023 Proposed Budget	Change
4110 - Salaries & Wages	571,686	552,000	538,300	608,900	70,600
4120 - Overtime	66,680	50,000	50,000	50,000	0
4130 - Miscellaneous (Payroll)	11,400	40,000	30,000	0	(30,000)
Personnel Services	649,765	642,000	618,300	658,900	40,600
4160 - Meals; Mileage & Uniform Allowances	1,078	1,200	1,400	1,500	100
4250 - Other Contractual Services	615,853	662,300	665,600	901,300	235,700
4270 - Professional Services	24,645	140,000	91,000	86,000	(5,000)
4430 - Miscellaneous Supplies	0	1,820	0	2,000	2,000
4460 - Other Materials & Supplies	35,814	40,000	0	45,000	45,000
4500 - Education and Training	40	1,720	1,600	3,250	1,650
4720 - Conference Travel & Expenses	0	6,300	1,000	200	(800)
4815 - Repair & Maint - Equipment	0	15,000	6,750	15,750	9,000
4910 - Miscellaneous Fees & Registration	3,314	7,500	7,700	9,100	1,400
8050 - Equipment (under \$5,000)	2,802	8,050	2,000	1,000	(1,000)
Materials, Supplies and Services	683,546	883,890	777,050	1,065,100	288,050
1270 - General Plant & Equip (over \$5,000)	6,936	8,000	0	0	0
Equipment	6,936	8,000	0	0	0
Total Chemical Laboratory	1,340,248	1,533,890	1,395,350	1,724,000	328,650

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 and monitors proposed rules for departmental impact. Supports the department's operational testing requirements and special water quality studies.

Account	FY2021 Actual	FY2021 Adopted Budget	FY2022 Adopted Budget	FY2023 Proposed Budget	Change
PS 4110 - Salaries & Wages	566,283	618,800	618,600	644,300	25,700
4120 - Overtime	42,310	120,000	50,000	50,000	0
4130 - Miscellaneous (Payroll)	8,450	30,000	30,000	0	(30,000)
Personnel Services	617,043	768,800	698,600	694,300	(4,300)
4160 - Meals; Mileage & Uniform Allowances	2,042	5,000	5,000	5,000	0
4250 - Other Contractual Services	13,557	5,600	11,500	12,500	1,000
4270 - Professional Services	0	100,000	75,000	75,000	0
4430 - Miscellaneous Supplies	37	0	0	0	0
4460 - Other Materials & Supplies	70,665	58,000	70,000	70,000	0
4500 - Education and Training	0	5,600	4,200	2,800	(1,400)
4720 - Conference Travel & Expenses	0	13,300	0	975	975
4815 - Repair & Maint - Equipment	0	4,000	3,000	4,000	1,000
4910 - Miscellaneous Fees & Registration	12,833	14,200	15,000	27,900	12,900
8050 - Equipment (under \$5,000)	192	4,900	2,100	0	(2,100)
Materials, Supplies and Services	99,326	210,600	185,800	198,175	12,375
1270 - General Plant & Equip (over \$5,000)	10,868	20,000	6,000	24,000	18,000
Equipment	10,868	20,000	6,000	24,000	18,000
Total Microbiological Laboratory	727,238	999,400	890,400	916,475	26,075

Budget Highlights

**Board of Water Supply
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WQ - Water Quality

5255 - Cross-Connection Control

Section's Activity

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

Account	FY2021 Actual	FY2021 Adopted Budget	FY2022 Adopted Budget	FY2023 Proposed Budget	Change
PS 4110 - Salaries & Wages	232,795	278,900	280,700	285,800	5,100
4120 - Overtime	91,043	150,000	100,000	100,000	0
4130 - Miscellaneous (Payroll)	15,314	0	0	0	0
Personnel Services	339,152	428,900	380,700	385,800	5,100
4160 - Meals; Mileage & Uniform Allowances	3,240	7,000	5,000	7,000	2,000
4250 - Other Contractual Services	1,290	9,000	7,000	7,000	0
4460 - Other Materials & Supplies	0	44,000	53,000	136,000	83,000
4500 - Education and Training	0	0	3,000	1,000	(2,000)
4815 - Repair & Maint - Equipment	0	17,500	17,500	17,500	0
4910 - Miscellaneous Fees & Registration	0	3,000	1,000	1,000	0
8050 - Equipment (under \$5,000)	48,738	54,500	4,300	0	(4,300)
Materials, Supplies and Services	53,268	135,000	90,800	169,500	78,700
E 1270 - General Plant & Equip (over \$5,000)	5,806	5,000	68,000	0	(68,000)
Equipment	5,806	5,000	68,000	0	(68,000)
Total Cross-Connection Control	398,226	568,900	539,500	555,300	15,800

Budget Highlights

**Board of Water Supply
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CC - Customer Care

Division/Office's Activity

The Customer Care Division handles contacts with customers; prepares applications and contracts for water service; designs service connections; 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	FY2021 Actual	FY2021 Adopted Budget	FY2022 Adopted Budget	FY2023 Proposed Budget	Change
PS 4110 - Salaries & Wages	3,276,303	4,028,900	3,952,400	3,650,200	(302,200)
4120 - Overtime	225,040	451,000	327,440	378,600	51,160
4130 - Miscellaneous (Payroll)	358,937	116,000	119,000	146,000	27,000
Personnel Services	3,860,281	4,595,900	4,398,840	4,174,800	(224,040)
4160 - Meals; Mileage & Uniform Allowances	17,057	29,560	32,700	25,800	(6,900)
4220 - Collection Fees	620,069	876,000	872,820	850,240	(22,580)
4250 - Other Contractual Services	60,339	66,645	77,420	66,300	(11,120)
4260 - Advertising & Publication of Notices	295	0	0	0	0
4267 - Printed forms	1,567	5,000	3,680	0	(3,680)
4430 - Miscellaneous Supplies	7,822	17,200	11,900	32,400	20,500
4460 - Other Materials & Supplies	16,434	14,000	14,500	14,000	(500)
4480 - Postage	14,326	15,600	30,000	30,000	0
4500 - Education and Training	0	13,800	12,000	0	(12,000)
4815 - Repair & Maint - Equipment	2,017	6,000	11,200	24,400	13,200
4910 - Miscellaneous Fees & Registration	440	8,400	6,650	7,900	1,250
8050 - Equipment (under \$5,000)	38,949	33,700	1,700	26,300	24,600
Materials, Supplies and Services	779,315	1,085,905	1,074,570	1,077,340	2,770
1270 - General Plant & Equip (over \$5,000)	0	10,000	10,000	11,000	1,000
Equipment	0	10,000	10,000	11,000	1,000
Total CC - Customer Care	4,639,596	5,691,805	5,483,410	5,263,140	(220,270)

Notes

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CC - Customer Care

5300 - Customer Care Administration

Section's Activity

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

Account	FY2021 Actual	FY2021 Adopted Budget	FY2022 Adopted Budget	FY2023 Proposed Budget	Change
4110 - Salaries & Wages	279,974	266,300	265,600	367,800	102,200
4120 - Overtime	2,551	6,000	7,440	30,000	22,560
4130 - Miscellaneous (Payroll)	4,300	0	0	0	0
Personnel Services	286,824	272,300	273,040	397,800	124,760
4160 - Meals; Mileage & Uniform Allowances	30	200	200	0	(200)
4250 - Other Contractual Services	3,242	5,620	8,120	15,400	7,280
4430 - Miscellaneous Supplies	6,815	13,800	10,000	30,000	20,000
4460 - Other Materials & Supplies	5,123	0	0	1,000	1,000
4480 - Postage	0	0	0	30,000	30,000
4500 - Education and Training	0	12,000	0	0	0
4910 - Miscellaneous Fees & Registration	405	400	900	900	0
8050 - Equipment (under \$5,000)	0	2,700	1,000	0	(1,000)
Materials, Supplies and Services	15,614	34,720	20,220	77,300	57,080
Total Customer Care Administration	302,438	307,020	293,260	475,100	181,840

Budget Highlights

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CC - Customer Care

5310 - Collection and Credit

Section's Activity

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

Account	FY2021 Actual	FY2021 Adopted Budget	FY2022 Adopted Budget	FY2023 Proposed Budget	Change
PS 4110 - Salaries & Wages	494,819	842,800	734,100	670,600	(63,500)
4120 - Overtime	4,112	15,000	25,000	36,000	11,000
4130 - Miscellaneous (Payroll)	125,102	30,000	30,000	43,000	13,000
Personnel Services	624,032	887,800	789,100	749,600	(39,500)
4160 - Meals; Mileage & Uniform Allowances	1,025	4,260	5,500	2,400	(3,100)
4220 - Collection Fees	620,069	876,000	872,820	850,240	(22,580)
4250 - Other Contractual Services	14,922	18,425	24,100	14,200	(9,900)
4260 - Advertising & Publication of Notices	295	0	0	0	0
4267 - Printed forms	1,567	5,000	3,680	0	(3,680)
4430 - Miscellaneous Supplies	955	3,400	1,900	2,400	500
4460 - Other Materials & Supplies	2,078	1,500	2,500	0	(2,500)
4480 - Postage	14,326	15,600	30,000	0	(30,000)
4500 - Education and Training	0	1,800	0	0	0
4815 - Repair & Maint - Equipment	0	0	1,200	0	(1,200)
4910 - Miscellaneous Fees & Registration	35	0	0	0	0
8050 - Equipment (under \$5,000)	0	6,000	700	0	(700)
Materials, Supplies and Services	655,272	931,985	942,400	869,240	(73,160)
Total Collection and Credit	1,279,304	1,819,785	1,731,500	1,618,840	(112,660)

Budget Highlights

**Board of Water Supply
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Fiscal Year 2023**

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	FY2021 Actual	FY2021 Adopted Budget	FY2022 Adopted Budget	FY2023 Proposed Budget	Change
PC 4110 - Salaries & Wages	346,525	377,700	394,600	388,800	(5,800)
4120 - Overtime	19,510	20,000	20,000	20,000	0
4130 - Miscellaneous (Payroll)	11,200	0	0	18,000	18,000
Personnel Services	377,235	397,700	414,600	426,800	12,200
4160 - Meals; Mileage & Uniform Allowances	492	0	0	0	0
4250 - Other Contractual Services	494	600	600	600	0
4460 - Other Materials & Supplies	260	2,000	2,000	2,000	0
Materials, Supplies and Services	1,246	2,600	2,600	2,600	0
Total Service Engineering	378,481	400,300	417,200	429,400	12,200

Budget Highlights

**Board of Water Supply
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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	FY2021 Actual	FY2021 Adopted Budget	FY2022 Adopted Budget	FY2023 Proposed Budget	Change
PS 4110 - Salaries & Wages	11,796	0	0	0	0
4120 - Overtime	2,736	0	0	0	0
Personnel Services	14,532	0	0	0	0
M 4160 - Meals; Mileage & Uniform Allowances	130	0	0	0	0
4250 - Other Contractual Services	6,642	0	0	0	0
Materials, Supplies and Services	6,772	0	0	0	0
Total Cross-Connection Control	21,304	0	0	0	0

Budget Highlights

**Board of Water Supply
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Fiscal Year 2023**

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 BWS personnel in other divisions with information, statistics, and status of accounts via computer terminals and services files.

Account	FY2021 Actual	FY2021 Adopted Budget	FY2022 Adopted Budget	FY2023 Proposed Budget	Change
4110 - Salaries & Wages	1,001,171	1,287,800	1,361,100	1,042,500	(318,600)
4120 - Overtime	29,097	50,000	50,000	52,600	2,600
4130 - Miscellaneous (Payroll)	127,530	27,000	30,000	15,000	(15,000)
Personnel Services	1,157,799	1,364,800	1,441,100	1,110,100	(331,000)
4160 - Meals; Mileage & Uniform Allowances	3,366	2,700	7,000	3,000	(4,000)
4250 - Other Contractual Services	0	0	600	600	0
4430 - Miscellaneous Supplies	52	0	0	0	0
4500 - Education and Training	0	0	12,000	0	(12,000)
Materials, Supplies and Services	3,419	2,700	19,600	3,600	(16,000)
Total Customer Service and Records	1,161,217	1,367,500	1,460,700	1,113,700	(347,000)

Budget Highlights

**Board of Water Supply
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Fiscal Year 2023**

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	FY2021 Actual	FY2021 Adopted Budget	FY2022 Adopted Budget	FY2023 Proposed Budget	Change
PS 4110 - Salaries & Wages	1,142,019	1,254,300	1,197,000	1,180,500	(16,500)
4120 - Overtime	167,035	360,000	225,000	240,000	15,000
4130 - Miscellaneous (Payroll)	90,805	59,000	59,000	70,000	11,000
Personnel Services	1,399,860	1,673,300	1,481,000	1,490,500	9,500
4160 - Meals; Mileage & Uniform Allowances	12,013	22,400	20,000	20,400	400
4250 - Other Contractual Services	35,039	42,000	44,000	35,500	(8,500)
4460 - Other Materials & Supplies	8,973	10,500	10,000	11,000	1,000
4815 - Repair & Maint - Equipment	2,017	6,000	10,000	24,400	14,400
4910 - Miscellaneous Fees & Registration	0	8,000	5,750	7,000	1,250
8050 - Equipment (under \$5,000)	38,949	25,000	0	26,300	26,300
Materials, Supplies and Services	96,991	113,900	89,750	124,600	34,850
1270 - General Plant & Equip (over \$5,000)	0	10,000	10,000	11,000	1,000
Equipment	0	10,000	10,000	11,000	1,000
Total Investigation	1,496,851	1,797,200	1,580,750	1,626,100	45,350

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	FY2021 Actual	FY2021 Adopted Budget	FY2022 Adopted Budget	FY2023 Proposed Budget	Change
PC 4110 - Salaries & Wages	277,388	285,300	309,600	311,600	2,000
4120 - Overtime	21,762	24,300	24,300	27,000	2,700
4130 - Miscellaneous (Payroll)	7,100	0	0	0	0
Personnel Services	306,250	309,600	333,900	338,600	4,700
4160 - Meals; Mileage & Uniform Allowances	48	1,000	1,000	1,000	0
4210 - Appraisals; Title Searches & Related Costs	12,521	222,500	161,000	110,400	(50,600)
4250 - Other Contractual Services	13,889	14,300	14,100	14,100	0
4270 - Professional Services	0	1,200,000	500,000	0	(500,000)
4430 - Miscellaneous Supplies	322	600	600	600	0
4480 - Postage	342	700	450	200	(250)
4815 - Repair & Maint - Equipment	0	240	240	100	(140)
4910 - Miscellaneous Fees & Registration	20,569	20,400	20,400	20,700	300
8050 - Equipment (under \$5,000)	115	0	1,300	0	(1,300)
Materials, Supplies and Services	47,806	1,459,740	699,090	147,100	(551,990)
Total Land	354,056	1,769,340	1,032,990	485,700	(547,290)

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	FY2021 Actual	FY2021 Adopted Budget	FY2022 Adopted Budget	FY2023 Proposed Budget	Change
PS 4110 - Salaries & Wages	2,363,026	2,494,300	2,636,200	2,585,400	(50,800)
4120 - Overtime	96,290	154,545	137,422	134,406	(3,016)
4130 - Miscellaneous (Payroll)	41,858	4,047	4,829	4,728	(101)
Personnel Services	2,501,174	2,652,892	2,778,451	2,724,534	(53,917)
4160 - Meals; Mileage & Uniform Allowances	4,701	5,320	4,873	4,526	(347)
4250 - Other Contractual Services	2,445,690	1,355,420	1,654,000	509,210	(1,144,790)
4255 - Other Services	133,622	944,258	1,107,547	1,046,276	(61,271)
4265 - Printing	214	1,000	1,000	1,000	0
4270 - Professional Services	1,324,828	1,500,000	1,500,000	2,524,032	1,024,032
4430 - Miscellaneous Supplies	3,695	10,000	5,000	5,000	0
4460 - Other Materials & Supplies	2,091	59,200	59,000	73,900	14,900
4480 - Postage	0	480	480	480	0
4500 - Education and Training	530	12,030	12,730	13,080	350
4680 - Telephone	0	2,400	2,400	12,000	9,600
4720 - Conference Travel & Expenses	820	69,470	66,260	37,840	(28,420)
4808 - Repair, Maintenance and Other Services - Photovoltaic (PV)	190,000	0	480,000	495,000	15,000
4810 - Repair & Maint - Recycled Water Plt	457,265	1,889,751	991,959	957,428	(34,531)
4815 - Repair & Maint - Equipment	5,306	31,330	31,790	39,608	7,818
4910 - Miscellaneous Fees & Registration	10,000	11,200	11,200	0	(11,200)
4920 - Non-Potable Water Trtmnt Plt Costs	3,074,295	4,662,868	4,307,792	4,838,161	530,369
4940 - US Geol Surv (USGS) CoOp Invest	181,786	790,000	950,000	885,000	(65,000)
8050 - Equipment (under \$5,000)	4,099	74,000	173,000	198,000	25,000
Materials, Supplies and Services	7,838,943	11,418,727	11,359,031	11,640,541	281,510
1270 - General Plant & Equip (over \$5,000)	0	90,000	21,500	50,000	28,500
Equipment	0	90,000	21,500	50,000	28,500
Total WR - Water Resources	10,340,117	14,161,619	14,158,982	14,415,075	256,093

Notes

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WR - Water Resources

5450 - Water Resources Administration

Section's Activity

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

Account	FY2021 Actual	FY2021 Adopted Budget	FY2022 Adopted Budget	FY2023 Proposed Budget	Change
PS 4110 - Salaries & Wages	392,111	377,200	373,900	385,800	11,900
4120 - Overtime	976	2,000	2,000	2,000	0
4130 - Miscellaneous (Payroll)	8,600	0	0	0	0
Personnel Services	401,686	379,200	375,900	387,800	11,900
4160 - Meals; Mileage & Uniform Allowances	32	0	0	0	0
4250 - Other Contractual Services	1,183,628	900,000	136,500	0	(136,500)
4265 - Printing	214	0	0	0	0
4270 - Professional Services	0	0	0	950,000	950,000
4430 - Miscellaneous Supplies	3,685	10,000	5,000	5,000	0
4460 - Other Materials & Supplies	94	0	0	0	0
4500 - Education and Training	120	0	0	0	0
4720 - Conference Travel & Expenses	295	7,610	7,610	6,060	(1,550)
4815 - Repair & Maint - Equipment	94	200	200	500	300
4910 - Miscellaneous Fees & Registration	10,000	10,000	10,000	0	(10,000)
Materials, Supplies and Services	1,198,162	927,810	159,310	961,560	802,250
Total Water Resources Administration	1,599,848	1,307,010	535,210	1,349,360	814,150

Budget Highlights

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WR - Water Resources

5470 - Water System Planning

Section's Activity

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

Account	FY2021 Actual	FY2021 Adopted Budget	FY2022 Adopted Budget	FY2023 Proposed Budget	Change
PS 4110 - Salaries & Wages	374,431	350,300	427,500	406,500	(21,000)
4120 - Overtime	3,720	8,645	8,645	8,645	0
4130 - Miscellaneous (Payroll)	4,500	0	0	0	0
Personnel Services	382,651	358,945	436,145	415,145	(21,000)
4160 - Meals; Mileage & Uniform Allowances	66	880	880	880	0
4250 - Other Contractual Services	11,241	11,920	102,000	118,710	16,710
4460 - Other Materials & Supplies	1,226	1,500	1,500	1,800	300
4480 - Postage	0	480	480	480	0
4500 - Education and Training	0	8,670	8,670	8,500	(170)
4720 - Conference Travel & Expenses	135	13,170	13,170	13,620	450
4815 - Repair & Maint - Equipment	2,738	7,130	7,590	9,108	1,518
Materials, Supplies and Services	15,405	43,750	134,290	153,098	18,808
E 1270 - General Plant & Equip (over \$5,000)	0	0	21,500	0	(21,500)
Equipment	0	0	21,500	0	(21,500)
Total Water System Planning	398,056	402,695	591,935	568,243	(23,692)

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	FY2021 Actual	FY2021 Adopted Budget	FY2022 Adopted Budget	FY2023 Proposed Budget	Change
PS 4110 - Salaries & Wages	405,602	455,600	462,500	439,800	(22,700)
4120 - Overtime	71,651	41,205	41,205	46,529	5,324
4130 - Miscellaneous (Payroll)	10,847	0	0	0	0
Personnel Services	488,100	496,805	503,705	486,329	(17,376)
4160 - Meals; Mileage & Uniform Allowances	4,016	1,150	1,003	1,000	(3)
4250 - Other Contractual Services	2,916	0	900,000	0	(900,000)
4270 - Professional Services	1,324,828	1,500,000	1,500,000	1,574,032	74,032
4460 - Other Materials & Supplies	(4,609)	15,450	9,250	11,250	2,000
4500 - Education and Training	0	1,600	1,600	1,600	0
4720 - Conference Travel & Expenses	90	24,750	22,940	11,240	(11,700)
4808 - Repair, Maintenance and Other Services - Photovoltaic (PV)	190,000	0	480,000	495,000	15,000
8050 - Equipment (under \$5,000)	0	0	75,000	75,000	0
Materials, Supplies and Services	1,517,241	1,542,950	2,989,793	2,169,122	(820,671)
Total Water Conservation	2,005,341	2,039,755	3,493,498	2,655,451	(838,047)

Budget Highlights

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WR - Water Resources

5475 - Recycled Water

Section's Activity

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

Account	FY2021 Actual	FY2021 Adopted Budget	FY2022 Adopted Budget	FY2023 Proposed Budget	Change
M 4250 - Other Contractual Services	258,260	168,000	240,000	240,000	0
4810 - Repair & Maint - Recycled Water Plt	457,265	1,889,751	991,959	957,428	(34,531)
4920 - Non-Potable Water Trtmnt Plt Costs	3,074,295	4,662,868	4,307,792	4,838,161	530,369
Materials, Supplies and Services	3,789,820	6,720,619	5,539,751	6,035,589	495,838
Total Recycled Water	3,789,820	6,720,619	5,539,751	6,035,589	495,838

Budget Highlights

**Board of Water Supply
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WR - Water Resources

5480 - Hydrology-Geology

Section's Activity

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

Account	FY2021 Actual	FY2021 Adopted Budget	FY2022 Adopted Budget	FY2023 Proposed Budget	Change
PS 4110 - Salaries & Wages	393,947	526,800	527,400	514,900	(12,500)
4120 - Overtime	12,056	41,195	39,642	39,042	(600)
4130 - Miscellaneous (Payroll)	14,911	4,047	4,829	4,728	(101)
Personnel Services	420,914	572,042	571,871	558,670	(13,201)
4160 - Meals; Mileage & Uniform Allowances	419	1,000	1,000	1,000	0
4250 - Other Contractual Services	958,999	275,000	275,000	150,000	(125,000)
4255 - Other Services	133,622	944,258	1,107,547	1,046,276	(61,271)
4265 - Printing	0	1,000	1,000	1,000	0
4430 - Miscellaneous Supplies	10	0	0	0	0
4460 - Other Materials & Supplies	5,347	41,200	47,200	59,200	12,000
4500 - Education and Training	410	500	1,200	1,600	400
4680 - Telephone	0	2,400	2,400	12,000	9,600
4720 - Conference Travel & Expenses	165	12,500	11,800	900	(10,900)
4815 - Repair & Maint - Equipment	2,475	24,000	24,000	30,000	6,000
4910 - Miscellaneous Fees & Registration	0	1,200	1,200	0	(1,200)
4940 - US Geol Surv (USGS) CoOp Invest	181,786	790,000	950,000	885,000	(65,000)
8050 - Equipment (under \$5,000)	4,099	73,000	97,000	123,000	26,000
Materials, Supplies and Services	1,287,331	2,166,058	2,519,347	2,309,976	(209,371)
E 1270 - General Plant & Equip (over \$5,000)	0	90,000	0	50,000	50,000
Equipment	0	90,000	0	50,000	50,000
Total Hydrology-Geology	1,708,245	2,828,100	3,091,218	2,918,646	(172,572)

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	FY2021 Actual	FY2021 Adopted Budget	FY2022 Adopted Budget	FY2023 Proposed Budget	Change
PS 4110 - Salaries & Wages	349,945	337,400	379,800	388,900	9,100
4120 - Overtime	77	4,800	4,800	4,330	(470)
4130 - Miscellaneous (Payroll)	1,500	0	0	0	0
Personnel Services	351,522	342,200	384,600	393,230	8,630
4160 - Meals; Mileage & Uniform Allowances	0	300	300	576	276
4460 - Other Materials & Supplies	0	400	400	1,000	600
4500 - Education and Training	0	630	630	750	120
4720 - Conference Travel & Expenses	90	5,120	5,120	3,000	(2,120)
Materials, Supplies and Services	90	6,450	6,450	5,326	(1,124)
Total Project Review	351,612	348,650	391,050	398,556	7,506

Budget Highlights

**Board of Water Supply
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WR - Water Resources

5495 - Long Range Planning

Section's Activity

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

Account	FY2021 Actual	FY2021 Adopted Budget	FY2022 Adopted Budget	FY2023 Proposed Budget	Change
PS 4110 - Salaries & Wages	446,990	447,000	465,100	449,500	(15,600)
4120 - Overtime	7,811	56,700	41,130	33,860	(7,270)
4130 - Miscellaneous (Payroll)	1,500	0	0	0	0
Personnel Services	456,301	503,700	506,230	483,360	(22,870)
4160 - Meals; Mileage & Uniform Allowances	168	1,990	1,690	1,070	(620)
4250 - Other Contractual Services	30,647	500	500	500	0
4460 - Other Materials & Supplies	33	650	650	650	0
4500 - Education and Training	0	630	630	630	0
4720 - Conference Travel & Expenses	45	6,320	5,620	3,020	(2,600)
8050 - Equipment (under \$5,000)	0	1,000	1,000	0	(1,000)
Materials, Supplies and Services	30,893	11,090	10,090	5,870	(4,220)
Total Long Range Planning	487,195	514,790	516,320	489,230	(27,090)

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	FY2021 Actual	FY2021 Adopted Budget	FY2022 Adopted Budget	FY2023 Proposed Budget	Change
PS 4110 - Salaries & Wages	11,734,964	14,880,700	15,438,800	14,765,900	(672,900)
4120 - Overtime	2,115,892	2,470,000	2,445,000	2,425,000	(20,000)
4130 - Miscellaneous (Payroll)	520,301	993,800	1,037,400	984,600	(52,800)
Personnel Services	14,371,157	18,344,500	18,921,200	18,175,500	(745,700)
1110 - Materials & Supplies (Storeroom)	1,652,280	1,600,000	2,200,000	2,420,000	220,000
1120 - Meters (Storeroom)	347,235	2,200,000	2,375,000	2,375,000	0
1125 - AMR Materials & Supplies (Storeroom)	151,960	500,000	300,000	250,000	(50,000)
4160 - Meals; Mileage & Uniform Allowances	112,207	131,500	136,500	135,500	(1,000)
4230 - Emergency & Contracted Road Repairs	8,117,553	6,800,000	8,000,000	8,000,000	0
4250 - Other Contractual Services	709,786	1,612,000	1,612,000	2,758,000	1,146,000
4270 - Professional Services	3,398	75,000	75,000	325,000	250,000
4280 - Refuse Collection & Disposal	1,025,169	840,000	1,200,000	1,200,000	0
4420 - Hauling Charges	(2,000)	160,000	50,000	50,000	0
4430 - Miscellaneous Supplies	9,338	10,000	10,000	10,000	0
4460 - Other Materials & Supplies	541,115	1,041,000	525,000	526,000	1,000
4480 - Postage	8	0	0	0	0
4500 - Education and Training	1,395	45,000	45,000	45,000	0
4720 - Conference Travel & Expenses	315	40,000	40,000	40,000	0
4805 - Repair & Maint - Structures	1,046	60,000	60,000	60,000	0
4815 - Repair & Maint - Equipment	18,208	43,000	43,000	38,000	(5,000)
4910 - Miscellaneous Fees & Registration	90	0	0	0	0
4915 - Miscellaneous Financial Expenses	9,639	0	0	0	0
4923 - Store Materials & Expense	922,418	750,000	750,000	800,000	50,000
8050 - Equipment (under \$5,000)	90,865	177,815	140,825	133,990	(6,835)
Materials, Supplies and Services	13,712,028	16,085,315	17,562,325	19,166,490	1,604,165
1270 - General Plant & Equip (over \$5,000)	46,989	105,000	28,000	39,500	11,500
Equipment	46,989	105,000	28,000	39,500	11,500
Total FO - Field Operations	28,130,174	34,534,815	36,511,525	37,381,490	869,965

Notes

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FO - Field Operations

5500 - Field Operations Administration

Section's Activity

Administers the affairs of the Field Operations Division.

Account	FY2021 Actual	FY2021 Adopted Budget	FY2022 Adopted Budget	FY2023 Proposed Budget	Change
4110 - Salaries & Wages	446,151	467,200	467,300	383,100	(84,200)
4120 - Overtime	9,050	5,000	10,000	10,000	0
4130 - Miscellaneous (Payroll)	9,900	10,000	10,000	10,000	0
Personnel Services	465,101	482,200	487,300	403,100	(84,200)
4160 - Meals; Mileage & Uniform Allowances	580	5,000	5,000	5,000	0
4230 - Emergency & Contracted Road Repairs	8,117,553	6,800,000	8,000,000	8,000,000	0
4250 - Other Contractual Services	128,774	375,000	375,000	325,000	(50,000)
4270 - Professional Services	3,398	75,000	75,000	325,000	250,000
4280 - Refuse Collection & Disposal	952,285	840,000	1,200,000	1,200,000	0
4430 - Miscellaneous Supplies	3,046	0	0	0	0
4460 - Other Materials & Supplies	7,887	0	0	0	0
4500 - Education and Training	1,395	45,000	45,000	45,000	0
4720 - Conference Travel & Expenses	315	40,000	40,000	40,000	0
4915 - Miscellaneous Financial Expenses	9,639	0	0	0	0
8050 - Equipment (under \$5,000)	0	0	0	13,750	13,750
Materials, Supplies and Services	9,224,873	8,180,000	9,740,000	9,953,750	213,750
Total Field Operations Administration	9,689,973	8,662,200	10,227,300	10,356,850	129,550

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	FY2021 Actual	FY2021 Adopted Budget	FY2022 Adopted Budget	FY2023 Proposed Budget	Change
PS 4110 - Salaries & Wages	248,280	477,200	386,800	368,600	(18,200)
4120 - Overtime	7,093	10,000	10,000	10,000	0
4130 - Miscellaneous (Payroll)	16,708	40,000	20,000	10,000	(10,000)
Personnel Services	272,080	527,200	416,800	388,600	(28,200)
4160 - Meals; Mileage & Uniform Allowances	862	3,500	3,500	3,500	0
4250 - Other Contractual Services	0	0	0	200,000	200,000
4460 - Other Materials & Supplies	85	10,000	10,000	10,000	0
4815 - Repair & Maint - Equipment	0	10,000	10,000	5,000	(5,000)
8050 - Equipment (under \$5,000)	0	0	8,250	2,500	(5,750)
Materials, Supplies and Services	947	23,500	31,750	221,000	189,250
E 1270 - General Plant & Equip (over \$5,000)	0	65,000	20,000	10,000	(10,000)
Equipment	0	65,000	20,000	10,000	(10,000)
Total Technical & Operational Support Branch	273,028	615,700	468,550	619,600	151,050

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	FY2021 Actual	FY2021 Adopted Budget	FY2022 Adopted Budget	FY2023 Proposed Budget	Change
PC 4110 - Salaries & Wages	829,492	1,435,900	1,310,000	1,054,800	(255,200)
4120 - Overtime	4,604	60,000	30,000	20,000	(10,000)
4130 - Miscellaneous (Payroll)	12,197	40,000	40,000	40,000	0
Personnel Services	846,293	1,535,900	1,380,000	1,114,800	(265,200)
1120 - Meters (Storeroom)	347,235	2,200,000	2,375,000	2,375,000	0
1125 - AMR Materials & Supplies (Storeroom)	151,960	500,000	300,000	250,000	(50,000)
4160 - Meals; Mileage & Uniform Allowances	1,200	3,000	3,000	3,000	0
4250 - Other Contractual Services	68,848	25,000	25,000	0	(25,000)
4430 - Miscellaneous Supplies	63	0	0	0	0
4460 - Other Materials & Supplies	12,639	30,000	30,000	30,000	0
4910 - Miscellaneous Fees & Registration	50	0	0	0	0
8050 - Equipment (under \$5,000)	11,676	13,075	29,975	0	(29,975)
Materials, Supplies and Services	593,671	2,771,075	2,762,975	2,658,000	(104,975)
Total Technical & Operational Support Branch	1,439,964	4,306,975	4,142,975	3,772,800	(370,175)

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	FY2021 Actual	FY2021 Adopted Budget	FY2022 Adopted Budget	FY2023 Proposed Budget	Change
PS 4110 - Salaries & Wages	241,284	337,700	334,700	277,000	(57,700)
4120 - Overtime	4,818	5,000	5,000	5,000	0
4130 - Miscellaneous (Payroll)	16,092	10,000	10,000	10,000	0
Personnel Services	262,194	352,700	349,700	292,000	(57,700)
1110 - Materials & Supplies (Storeroom)	1,652,280	1,600,000	2,200,000	2,420,000	220,000
4160 - Meals; Mileage & Uniform Allowances	1,967	4,000	4,000	4,000	0
4250 - Other Contractual Services	0	0	0	75,000	75,000
4420 - Hauling Charges	(2,000)	160,000	50,000	50,000	0
4460 - Other Materials & Supplies	210,022	770,000	250,000	250,000	0
4923 - Store Materials & Expense	922,418	750,000	750,000	800,000	50,000
Materials, Supplies and Services	2,784,687	3,284,000	3,254,000	3,599,000	345,000
Total Technical & Operational Support Branch	3,046,881	3,636,700	3,603,700	3,891,000	287,300

Budget Highlights

**Board of Water Supply
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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 the Beretania Complex buildings and corporation yards.

Account	FY2021 Actual	FY2021 Adopted Budget	FY2022 Adopted Budget	FY2023 Proposed Budget	Change
4110 - Salaries & Wages	238,992	228,600	235,500	259,000	23,500
4120 - Overtime	31,139	40,000	40,000	40,000	0
4130 - Miscellaneous (Payroll)	9,570	64,800	64,800	32,400	(32,400)
Personnel Services	279,700	333,400	340,300	331,400	(8,900)
4160 - Meals; Mileage & Uniform Allowances	958	0	0	1,000	1,000
Materials, Supplies and Services	958	0	0	1,000	1,000
Total Maintenance Support Branch	280,658	333,400	340,300	332,400	(7,900)

Budget Highlights

**Board of Water Supply
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FO - Field Operations

5522 - Grounds Section

Section's Activity

The Grounds Section is responsible for the maintenance of grounds and landscaped areas at Beretania Complex, Halawa Garden, corporation yards, pump stations, reservoirs, and well sites; maintains 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	FY2021 Actual	FY2021 Adopted Budget	FY2022 Adopted Budget	FY2023 Proposed Budget	Change
PS 4110 - Salaries & Wages	1,676,314	1,993,000	1,998,700	1,942,200	(56,500)
4120 - Overtime	4,845	50,000	50,000	50,000	0
4130 - Miscellaneous (Payroll)	93,394	70,000	70,000	70,000	0
Personnel Services	1,774,553	2,113,000	2,118,700	2,062,200	(56,500)
4160 - Meals; Mileage & Uniform Allowances	3,210	6,000	6,000	6,000	0
4250 - Other Contractual Services	426,266	1,000,000	1,000,000	1,925,000	925,000
4460 - Other Materials & Supplies	28,460	40,000	40,000	40,000	0
4815 - Repair & Maint - Equipment	115	5,000	5,000	5,000	0
8050 - Equipment (under \$5,000)	10,093	12,800	11,100	19,150	8,050
Materials, Supplies and Services	468,143	1,063,800	1,062,100	1,995,150	933,050
Total Maintenance Support Branch	2,242,695	3,176,800	3,180,800	4,057,350	876,550

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	FY2021 Actual	FY2021 Adopted Budget	FY2022 Adopted Budget	FY2023 Proposed Budget	Change
4110 - Salaries & Wages	388,327	446,900	454,800	454,800	0
4120 - Overtime	33,078	30,000	30,000	20,000	(10,000)
4130 - Miscellaneous (Payroll)	5,594	10,000	10,000	10,000	0
Personnel Services	426,999	486,900	494,800	484,800	(10,000)
4160 - Meals; Mileage & Uniform Allowances	6,802	0	5,000	5,000	0
4250 - Other Contractual Services	2,111	13,000	13,000	10,000	(3,000)
4460 - Other Materials & Supplies	11,494	8,000	12,000	12,000	0
4805 - Repair & Maint - Structures	0	10,000	10,000	10,000	0
8050 - Equipment (under \$5,000)	3,330	3,180	5,000	0	(5,000)
Materials, Supplies and Services	23,737	34,180	45,000	37,000	(8,000)
Total Maintenance Support Branch	450,736	521,080	539,800	521,800	(18,000)

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	FY2021 Actual	FY2021 Adopted Budget	FY2022 Adopted Budget	FY2023 Proposed Budget	Change
PS 4110 - Salaries & Wages	3,565,967	4,526,900	4,812,400	4,699,000	(113,400)
4120 - Overtime	955,459	1,000,000	1,000,000	1,000,000	0
4130 - Miscellaneous (Payroll)	205,443	358,400	368,000	365,600	(2,400)
Personnel Services	4,726,869	5,885,300	6,180,400	6,064,600	(115,800)
4160 - Meals; Mileage & Uniform Allowances	46,088	50,000	50,000	50,000	0
4250 - Other Contractual Services	77,511	177,000	177,000	202,000	25,000
4280 - Refuse Collection & Disposal	72,884	0	0	0	0
4430 - Miscellaneous Supplies	2,593	6,000	6,000	6,000	0
4460 - Other Materials & Supplies	133,591	90,000	90,000	90,000	0
4480 - Postage	8	0	0	0	0
4805 - Repair & Maint - Structures	1,046	50,000	50,000	50,000	0
4815 - Repair & Maint - Equipment	5,768	15,000	15,000	15,000	0
8050 - Equipment (under \$5,000)	27,984	55,600	24,950	43,300	18,350
Materials, Supplies and Services	367,473	443,600	412,950	456,300	43,350
E 1270 - General Plant & Equip (over \$5,000)	0	20,000	0	0	0
Equipment	0	20,000	0	0	0
Total Metropolitan Field Services District	5,094,342	6,348,900	6,593,350	6,520,900	(72,450)

Budget Highlights

**Board of Water Supply
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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	FY2021 Actual	FY2021 Adopted Budget	FY2022 Adopted Budget	FY2023 Proposed Budget	Change
PS 4110 - Salaries & Wages	85,184	102,600	102,700	105,400	2,700
4120 - Overtime	2,082	0	0	0	0
4130 - Miscellaneous (Payroll)	5,600	0	0	2,400	2,400
Personnel Services	92,866	102,600	102,700	107,800	5,100
4160 - Meals; Mileage & Uniform Allowances	134	0	0	0	0
4250 - Other Contractual Services	2,226	1,000	1,000	0	(1,000)
4430 - Miscellaneous Supplies	3,520	4,000	4,000	4,000	0
4460 - Other Materials & Supplies	346	0	0	0	0
Materials, Supplies and Services	6,225	5,000	5,000	4,000	(1,000)
1270 - General Plant & Equip (over \$5,000)	0	20,000	0	0	0
Equipment	0	20,000	0	0	0
Total Administration Section	99,091	127,600	107,700	111,800	4,100

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	FY2021 Actual	FY2021 Adopted Budget	FY2022 Adopted Budget	FY2023 Proposed Budget	Change
PS 4110 - Salaries & Wages	1,304,215	1,810,400	1,972,700	1,982,400	9,700
4120 - Overtime	437,718	500,000	500,000	500,000	0
4130 - Miscellaneous (Payroll)	52,770	142,600	159,400	164,200	4,800
Personnel Services	1,794,703	2,453,000	2,632,100	2,646,600	14,500
4160 - Meals; Mileage & Uniform Allowances	19,220	20,000	20,000	20,000	0
4250 - Other Contractual Services	1,175	15,000	15,000	15,000	0
4460 - Other Materials & Supplies	56,501	60,000	60,000	60,000	0
4815 - Repair & Maint - Equipment	2,864	5,000	5,000	5,000	0
8050 - Equipment (under \$5,000)	15,106	55,450	18,950	20,100	1,150
Materials, Supplies and Services	94,866	155,450	118,950	120,100	1,150
E 1270 - General Plant & Equip (over \$5,000)	0	0	0	9,000	9,000
Equipment	0	0	0	9,000	9,000
Total Administration Section	1,889,569	2,608,450	2,751,050	2,775,700	24,650

Budget Highlights

**Board of Water Supply
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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	FY2021 Actual	FY2021 Adopted Budget	FY2022 Adopted Budget	FY2023 Proposed Budget	Change
PS 4110 - Salaries & Wages	407,453	701,400	760,500	662,500	(98,000)
4120 - Overtime	107,788	160,000	160,000	160,000	0
4130 - Miscellaneous (Payroll)	12,798	56,600	79,000	81,400	2,400
Personnel Services	528,039	918,000	999,500	903,900	(95,600)
4160 - Meals; Mileage & Uniform Allowances	4,533	11,000	11,000	11,000	0
4460 - Other Materials & Supplies	5,759	12,000	12,000	12,000	0
4815 - Repair & Maint - Equipment	7,085	3,000	3,000	3,000	0
8050 - Equipment (under \$5,000)	2,625	3,800	8,600	5,490	(3,110)
Materials, Supplies and Services	20,002	29,800	34,600	31,490	(3,110)
1270 - General Plant & Equip (over \$5,000)	0	0	8,000	11,500	3,500
Equipment	0	0	8,000	11,500	3,500
Total Administration Section	548,041	947,800	1,042,100	946,890	(95,210)

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	FY2021 Actual	FY2021 Adopted Budget	FY2022 Adopted Budget	FY2023 Proposed Budget	Change
PS 4110 - Salaries & Wages	809,959	796,800	836,000	869,400	33,400
4120 - Overtime	220,654	360,000	360,000	360,000	0
4130 - Miscellaneous (Payroll)	33,034	73,800	73,800	76,200	2,400
Personnel Services	1,063,647	1,230,600	1,269,800	1,305,600	35,800
4160 - Meals; Mileage & Uniform Allowances	11,404	17,000	17,000	15,000	(2,000)
4460 - Other Materials & Supplies	5,040	7,000	7,000	7,000	0
4815 - Repair & Maint - Equipment	2,376	2,500	2,500	2,500	0
8050 - Equipment (under \$5,000)	6,056	19,410	0	9,300	9,300
Materials, Supplies and Services	24,877	45,910	26,500	33,800	7,300
1270 - General Plant & Equip (over \$5,000)	0	0	0	9,000	9,000
Equipment	0	0	0	9,000	9,000
Total Administration Section	1,088,524	1,276,510	1,296,300	1,348,400	52,100

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	FY2021 Actual	FY2021 Adopted Budget	FY2022 Adopted Budget	FY2023 Proposed Budget	Change
PS 4110 - Salaries & Wages	1,493,347	1,556,100	1,766,700	1,707,700	(59,000)
4120 - Overtime	297,565	250,000	250,000	250,000	0
4130 - Miscellaneous (Payroll)	47,201	117,600	132,400	112,400	(20,000)
Personnel Services	1,838,113	1,923,700	2,149,100	2,070,100	(79,000)
4160 - Meals; Mileage & Uniform Allowances	15,249	12,000	12,000	12,000	0
4250 - Other Contractual Services	2,876	6,000	6,000	6,000	0
4430 - Miscellaneous Supplies	116	0	0	0	0
4460 - Other Materials & Supplies	68,970	14,000	14,000	15,000	1,000
4815 - Repair & Maint - Equipment	0	2,500	2,500	2,500	0
4910 - Miscellaneous Fees & Registration	40	0	0	0	0
8050 - Equipment (under \$5,000)	13,995	14,500	34,000	20,400	(13,600)
Materials, Supplies and Services	101,246	49,000	68,500	55,900	(12,600)
E 1270 - General Plant & Equip (over \$5,000)	46,989	0	0	0	0
Equipment	46,989	0	0	0	0
Total Administration Section	1,986,348	1,972,700	2,217,600	2,126,000	(91,600)

Budget Highlights

**Board of Water Supply
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FO - Field Operations

5530 - Construction

Section's Activity

A reorganization transferred this program to the Capital Projects Division (see page OP-49)

Account	FY2021 Actual	FY2021 Adopted Budget	FY2022 Adopted Budget	FY2023 Proposed Budget	Change
M 4460 - Other Materials & Supplies	323	0	0	0	0
Materials, Supplies and Services	323	0	0	0	0
Total Construction	323	0	0	0	0

Budget Highlights

**Board of Water Supply
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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	FY2021 Actual	FY2021 Adopted Budget	FY2022 Adopted Budget	FY2023 Proposed Budget	Change
PC 4110 - Salaries & Wages	4,697,576	4,924,500	5,335,600	5,642,500	306,900
4120 - Overtime	454,876	464,000	444,000	444,000	0
4130 - Miscellaneous (Payroll)	127,933	27,800	273,300	271,300	(2,000)
Personnel Services	5,280,386	5,416,300	6,052,900	6,357,800	304,900
4160 - Meals; Mileage & Uniform Allowances	12,766	17,200	16,900	16,900	0
4250 - Other Contractual Services	468,292	445,200	439,200	472,200	33,000
4260 - Advertising & Publication of Notices	1,455	3,000	3,000	3,000	0
4270 - Professional Services	1,644,064	1,500,000	1,500,000	2,000,000	500,000
4430 - Miscellaneous Supplies	4,932	4,000	4,000	4,000	0
4460 - Other Materials & Supplies	6,911	35,800	35,200	32,000	(3,200)
4500 - Education and Training	8,697	33,300	53,300	47,700	(5,600)
4720 - Conference Travel & Expenses	0	0	0	5,600	5,600
4815 - Repair & Maint - Equipment	270	5,300	5,300	5,000	(300)
4910 - Miscellaneous Fees & Registration	204	400	400	2,600	2,200
8050 - Equipment (under \$5,000)	0	0	2,000	0	(2,000)
Materials, Supplies and Services	2,147,591	2,044,200	2,059,300	2,589,000	529,700
E 1270 - General Plant & Equip (over \$5,000)	319,520	250,000	250,000	250,000	0
Equipment	319,520	250,000	250,000	250,000	0
Total CP - Capital Projects	7,747,497	7,710,500	8,362,200	9,196,800	834,600

Notes

**Board of Water Supply
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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	FY2021 Actual	FY2021 Adopted Budget	FY2022 Adopted Budget	FY2023 Proposed Budget	Change
PS 4110 - Salaries & Wages	520,807	531,000	547,700	568,100	20,400
4120 - Overtime	61,747	50,000	40,000	40,000	0
4130 - Miscellaneous (Payroll)	14,200	300	300	300	0
Personnel Services	596,754	581,300	588,000	608,400	20,400
4160 - Meals; Mileage & Uniform Allowances	750	500	500	500	0
4250 - Other Contractual Services	14,219	119,200	134,200	164,200	30,000
4260 - Advertising & Publication of Notices	1,455	3,000	3,000	3,000	0
4270 - Professional Services	1,644,064	1,500,000	1,500,000	2,000,000	500,000
4430 - Miscellaneous Supplies	4,302	2,500	2,500	2,500	0
4460 - Other Materials & Supplies	2,363	23,500	23,500	23,500	0
4500 - Education and Training	7,749	0	20,000	17,000	(3,000)
4720 - Conference Travel & Expenses	0	0	0	1,600	1,600
4815 - Repair & Maint - Equipment	270	1,000	1,000	1,000	0
4910 - Miscellaneous Fees & Registration	204	200	200	200	0
Materials, Supplies and Services	1,675,375	1,649,900	1,684,900	2,213,500	528,600
1270 - General Plant & Equip (over \$5,000)	319,520	250,000	250,000	250,000	0
Equipment	319,520	250,000	250,000	250,000	0
Total Administration	2,591,649	2,481,200	2,522,900	3,071,900	549,000

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	FY2021 Actual	FY2021 Adopted Budget	FY2022 Adopted Budget	FY2023 Proposed Budget	Change
PC 4110 - Salaries & Wages	912,460	952,500	1,065,200	1,103,400	38,200
4120 - Overtime	37,867	50,000	40,000	40,000	0
4130 - Miscellaneous (Payroll)	1,500	0	0	8,000	8,000
Personnel Services	951,826	1,002,500	1,105,200	1,151,400	46,200
4160 - Meals; Mileage & Uniform Allowances	36	200	200	200	0
4430 - Miscellaneous Supplies	0	1,000	1,000	1,000	0
4500 - Education and Training	0	4,000	4,000	4,000	0
4720 - Conference Travel & Expenses	0	0	0	4,000	4,000
Materials, Supplies and Services	36	5,200	5,200	9,200	4,000
Total Design & Plans Review	951,862	1,007,700	1,110,400	1,160,600	50,200

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 the BWS facilities and assets; and ensures all construction plans and specifications, whether by the BWS or by other public and private interests, is completed and approved with accepted engineering practices in accordance with the department's standards and policies.

Account	FY2021 Actual	FY2021 Adopted Budget	FY2022 Adopted Budget	FY2023 Proposed Budget	Change
PS 4110 - Salaries & Wages	2,041,359	2,173,600	2,383,000	2,559,700	176,700
4120 - Overtime	321,970	350,000	350,000	350,000	0
4130 - Miscellaneous (Payroll)	100,083	0	250,000	250,000	0
Personnel Services	2,463,413	2,523,600	2,983,000	3,159,700	176,700
4160 - Meals; Mileage & Uniform Allowances	11,286	16,000	16,000	16,000	0
4250 - Other Contractual Services	32,252	30,000	30,000	30,000	0
4430 - Miscellaneous Supplies	0	500	500	500	0
4460 - Other Materials & Supplies	1,992	4,000	4,000	3,000	(1,000)
4500 - Education and Training	200	22,000	22,000	18,900	(3,100)
4910 - Miscellaneous Fees & Registration	0	200	200	200	0
8050 - Equipment (under \$5,000)	0	0	1,500	0	(1,500)
Materials, Supplies and Services	45,730	72,700	74,200	68,600	(5,600)
Total Construction	2,509,142	2,596,300	3,057,200	3,228,300	171,100

Budget Highlights

**Board of Water Supply
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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; 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; develops and maintains the department's water system standards; and conducts research and product trials to evaluate new materials and equipment.

Account	FY2021 Actual	FY2021 Adopted Budget	FY2022 Adopted Budget	FY2023 Proposed Budget	Change
4110 - Salaries & Wages	597,260	674,400	684,300	718,600	34,300
4120 - Overtime	20,085	4,000	4,000	4,000	0
4130 - Miscellaneous (Payroll)	12,150	8,500	4,000	9,000	5,000
Personnel Services	629,496	686,900	692,300	731,600	39,300
4160 - Meals; Mileage & Uniform Allowances	324	100	100	100	0
4250 - Other Contractual Services	5,150	21,000	0	3,000	3,000
4430 - Miscellaneous Supplies	630	0	0	0	0
4460 - Other Materials & Supplies	357	3,600	3,000	3,000	0
4500 - Education and Training	0	5,700	5,700	6,200	500
4815 - Repair & Maint - Equipment	0	4,300	4,300	4,000	(300)
8050 - Equipment (under \$5,000)	0	0	500	0	(500)
Materials, Supplies and Services	6,461	34,700	13,600	16,300	2,700
Total Support	635,956	721,600	705,900	747,900	42,000

Budget Highlights

**Board of Water Supply
Operating Budget
Fiscal Year 2023**

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; 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 the 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	FY2021 Actual	FY2021 Adopted Budget	FY2022 Adopted Budget	FY2023 Proposed Budget	Change
PS 4110 - Salaries & Wages	625,691	593,000	655,400	692,700	37,300
4120 - Overtime	13,207	10,000	10,000	10,000	0
4130 - Miscellaneous (Payroll)	0	19,000	19,000	4,000	(15,000)
Personnel Services	638,898	622,000	684,400	706,700	22,300
4160 - Meals; Mileage & Uniform Allowances	370	400	100	100	0
4250 - Other Contractual Services	416,671	275,000	275,000	275,000	0
4460 - Other Materials & Supplies	2,200	4,700	4,700	2,500	(2,200)
4500 - Education and Training	749	1,600	1,600	1,600	0
4910 - Miscellaneous Fees & Registration	0	0	0	2,200	2,200
Materials, Supplies and Services	419,990	281,700	281,400	281,400	0
Total Mechanical and Electrical	1,058,887	903,700	965,800	988,100	22,300

Budget Highlights

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WSO - Water System Operations

Division/Office's Activity

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

Account	FY2021 Actual	FY2021 Adopted Budget	FY2022 Adopted Budget	FY2023 Proposed Budget	Change
4110 - Salaries & Wages	5,123,341	6,591,000	6,196,400	6,448,800	252,400
4120 - Overtime	894,821	673,000	843,000	826,000	(17,000)
4130 - Miscellaneous (Payroll)	66,022	150,000	55,800	72,300	16,500
Personnel Services	6,084,183	7,414,000	7,095,200	7,347,100	251,900
4160 - Meals; Mileage & Uniform Allowances	38,992	39,800	40,700	40,700	0
4250 - Other Contractual Services	586,878	608,800	707,800	1,077,900	370,100
4251 - Software Licenses and Maintenance	13,770	33,100	33,100	30,100	(3,000)
4267 - Printed forms	0	300	300	300	0
4270 - Professional Services	0	500,000	1,000,000	250,000	(750,000)
4410 - Gasoline	599,711	803,200	803,200	883,520	80,320
4430 - Miscellaneous Supplies	4,707	7,600	7,600	8,000	400
4440 - Motor Vehicle Parts & Accessories	372,142	452,000	452,000	452,000	0
4460 - Other Materials & Supplies	1,882,685	2,843,000	2,816,800	3,250,550	433,750
4470 - Parts and Accessories	860,866	546,800	600,000	627,000	27,000
4500 - Education and Training	8,812	50,600	45,250	44,175	(1,075)
4670 - Telemetry	212,419	210,000	200,000	220,000	20,000
4720 - Conference Travel & Expenses	0	22,100	12,200	4,400	(7,800)
4805 - Repair & Maint - Structures	10,612	44,000	54,000	54,000	0
4815 - Repair & Maint - Equipment	852,698	839,600	1,022,200	1,256,400	234,200
4910 - Miscellaneous Fees & Registration	3,152	14,600	5,500	7,700	2,200
8050 - Equipment (under \$5,000)	202,021	289,000	382,050	406,830	24,780
Materials, Supplies and Services	5,649,466	7,304,500	8,182,700	8,613,575	430,875
1270 - General Plant & Equip (over \$5,000)	3,455,325	5,729,300	3,897,700	3,857,600	(40,100)
Equipment	3,455,325	5,729,300	3,897,700	3,857,600	(40,100)
Total WSO - Water System Operations	15,188,973	20,447,800	19,175,600	19,818,275	642,675

Notes

**Board of Water Supply
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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	FY2021 Actual	FY2021 Adopted Budget	FY2022 Adopted Budget	FY2023 Proposed Budget	Change
PS 4110 - Salaries & Wages	375,352	445,700	496,100	473,800	(22,300)
4120 - Overtime	72,335	40,000	40,000	20,000	(20,000)
4130 - Miscellaneous (Payroll)	12,712	600	600	600	0
Personnel Services	460,399	486,300	536,700	494,400	(42,300)
4160 - Meals; Mileage & Uniform Allowances	1,154	800	900	900	0
4250 - Other Contractual Services	13,110	32,000	32,000	312,000	280,000
4251 - Software Licenses and Maintenance	13,770	0	0	0	0
4270 - Professional Services	0	500,000	1,000,000	250,000	(750,000)
4430 - Miscellaneous Supplies	3,044	6,000	6,000	5,000	(1,000)
4460 - Other Materials & Supplies	4,264	0	0	0	0
4500 - Education and Training	0	1,500	1,700	825	(875)
4720 - Conference Travel & Expenses	0	6,500	2,500	400	(2,100)
4815 - Repair & Maint - Equipment	6,940	0	0	0	0
4910 - Miscellaneous Fees & Registration	1,840	4,500	1,000	1,000	0
Materials, Supplies and Services	44,122	551,300	1,044,100	570,125	(473,975)
1270 - General Plant & Equip (over \$5,000)	16,686	0	0	0	0
Equipment	16,686	0	0	0	0
Total Operations Administration	521,207	1,037,600	1,580,800	1,064,525	(516,275)

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	FY2021 Actual	FY2021 Adopted Budget	FY2022 Adopted Budget	FY2023 Proposed Budget	Change
4110 - Salaries & Wages	110,838	308,800	193,400	213,900	20,500
4120 - Overtime	0	20,000	35,000	50,000	15,000
4130 - Miscellaneous (Payroll)	7,859	1,200	1,200	1,200	0
Personnel Services	118,697	330,000	229,600	265,100	35,500
4160 - Meals; Mileage & Uniform Allowances	718	1,000	1,800	1,000	(800)
4250 - Other Contractual Services	26,304	0	0	4,000	4,000
4251 - Software Licenses and Maintenance	0	28,000	28,000	25,000	(3,000)
4430 - Miscellaneous Supplies	38	1,000	1,000	2,000	1,000
4460 - Other Materials & Supplies	1,654,824	2,600,000	2,585,400	3,050,000	464,600
4470 - Parts and Accessories	25,717	0	0	15,000	15,000
4500 - Education and Training	5,236	5,450	3,050	4,000	950
4720 - Conference Travel & Expenses	0	3,000	900	400	(500)
4805 - Repair & Maint - Structures	10,612	40,000	50,000	50,000	0
4815 - Repair & Maint - Equipment	748,992	574,600	783,200	866,000	82,800
4910 - Miscellaneous Fees & Registration	40	7,200	1,600	3,800	2,200
8050 - Equipment (under \$5,000)	47,087	2,000	8,000	4,000	(4,000)
Materials, Supplies and Services	2,519,567	3,262,250	3,462,950	4,025,200	562,250
1270 - General Plant & Equip (over \$5,000)	0	3,200	0	0	0
Equipment	0	3,200	0	0	0
Total Plant Operations	2,638,264	3,595,450	3,692,550	4,290,300	597,750

Budget Highlights

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WSO - Water System Operations

5611 - District 1 Leeward West Section

Section's Activity

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

Account	FY2021 Actual	FY2021 Adopted Budget	FY2022 Adopted Budget	FY2023 Proposed Budget	Change
PS 4110 - Salaries & Wages	472,560	672,300	507,600	740,800	233,200
4120 - Overtime	131,570	120,000	120,000	120,000	0
4130 - Miscellaneous (Payroll)	4,800	21,000	3,000	4,500	1,500
Personnel Services	608,930	813,300	630,600	865,300	234,700
4160 - Meals; Mileage & Uniform Allowances	5,190	7,000	7,000	7,000	0
4460 - Other Materials & Supplies	15,819	19,200	18,800	23,800	5,000
4470 - Parts and Accessories	156,708	100,600	89,000	105,000	16,000
4500 - Education and Training	0	4,200	3,500	3,500	0
4720 - Conference Travel & Expenses	0	1,500	900	400	(500)
4815 - Repair & Maint - Equipment	0	12,000	12,000	12,000	0
4910 - Miscellaneous Fees & Registration	89	0	0	0	0
8050 - Equipment (under \$5,000)	41,878	25,500	31,500	48,500	17,000
Materials, Supplies and Services	219,684	170,000	162,700	200,200	37,500
1270 - General Plant & Equip (over \$5,000)	13,415	0	0	0	0
Equipment	13,415	0	0	0	0
Total District 1 Leeward West Section	842,029	983,300	793,300	1,065,500	272,200

Budget Highlights

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WSO - Water System Operations

5612 - District 2 Central/Windward Section

Section's Activity

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

Account	FY2021 Actual	FY2021 Adopted Budget	FY2022 Adopted Budget	FY2023 Proposed Budget	Change
4110 - Salaries & Wages	701,070	796,500	705,400	725,200	19,800
4120 - Overtime	282,540	120,000	200,000	210,000	10,000
4130 - Miscellaneous (Payroll)	2,000	7,200	6,000	6,000	0
Personnel Services	985,610	923,700	911,400	941,200	29,800
4160 - Meals; Mileage & Uniform Allowances	13,188	8,400	8,400	8,400	0
4460 - Other Materials & Supplies	15,521	35,600	31,300	27,000	(4,300)
4470 - Parts and Accessories	183,376	90,000	88,000	91,000	3,000
4500 - Education and Training	0	3,500	3,500	3,500	0
4670 - Telemetry	1,052	0	0	0	0
4720 - Conference Travel & Expenses	0	1,500	900	400	(500)
4815 - Repair & Maint - Equipment	0	12,000	12,000	12,000	0
8050 - Equipment (under \$5,000)	34,841	50,000	31,500	67,000	35,500
Materials, Supplies and Services	247,978	201,000	175,600	209,300	33,700
1270 - General Plant & Equip (over \$5,000)	29,445	0	0	0	0
Equipment	29,445	0	0	0	0
Total District 2 Central/Windward Section	1,263,034	1,124,700	1,087,000	1,150,500	63,500

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 Makapu'u.

Account	FY2021 Actual	FY2021 Adopted Budget	FY2022 Adopted Budget	FY2023 Proposed Budget	Change
PS 4110 - Salaries & Wages	485,474	660,700	710,100	667,700	(42,400)
4120 - Overtime	166,066	120,000	200,000	170,000	(30,000)
4130 - Miscellaneous (Payroll)	2,899	6,000	6,000	6,000	0
Personnel Services	654,438	786,700	916,100	843,700	(72,400)
4160 - Meals; Mileage & Uniform Allowances	6,614	6,500	6,500	6,500	0
4460 - Other Materials & Supplies	17,389	23,700	18,000	11,000	(7,000)
4470 - Parts and Accessories	173,228	107,000	120,000	119,000	(1,000)
4500 - Education and Training	700	4,200	3,500	3,500	0
4720 - Conference Travel & Expenses	0	1,500	900	400	(500)
4815 - Repair & Maint - Equipment	2,877	18,000	12,000	12,000	0
8050 - Equipment (under \$5,000)	22,146	31,000	41,500	46,300	4,800
Materials, Supplies and Services	222,953	191,900	202,400	198,700	(3,700)
E 1270 - General Plant & Equip (over \$5,000)	18,725	10,000	10,000	55,000	45,000
Equipment	18,725	10,000	10,000	55,000	45,000
Total District 3 Metropolitan Section	896,116	988,600	1,128,500	1,097,400	(31,100)

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	FY2021 Actual	FY2021 Adopted Budget	FY2022 Adopted Budget	FY2023 Proposed Budget	Change
4110 - Salaries & Wages	521,370	785,100	715,300	724,300	9,000
4120 - Overtime	54,658	65,000	60,000	60,000	0
4130 - Miscellaneous (Payroll)	2,000	6,000	5,000	5,000	0
Personnel Services	578,028	856,100	780,300	789,300	9,000
4160 - Meals; Mileage & Uniform Allowances	3,448	5,500	5,500	5,500	0
4460 - Other Materials & Supplies	59,663	22,500	22,300	15,600	(6,700)
4470 - Parts and Accessories	103,139	87,200	93,000	98,000	5,000
4500 - Education and Training	285	4,200	3,500	3,500	0
4720 - Conference Travel & Expenses	0	1,500	900	400	(500)
4815 - Repair & Maint - Equipment	24,885	2,000	12,000	12,000	0
8050 - Equipment (under \$5,000)	7,138	25,300	68,500	84,500	16,000
Materials, Supplies and Services	198,559	148,200	205,700	219,500	13,800
Total District 4 Leeward East Section	776,587	1,004,300	986,000	1,008,800	22,800

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 and 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	FY2021 Actual	FY2021 Adopted Budget	FY2022 Adopted Budget	FY2023 Proposed Budget	Change
PS 4110 - Salaries & Wages	611,320	709,200	691,700	760,600	68,900
4120 - Overtime	143,777	130,000	130,000	140,000	10,000
4130 - Miscellaneous (Payroll)	8,000	4,000	4,000	19,000	15,000
Personnel Services	763,097	843,200	825,700	919,600	93,900
4160 - Meals; Mileage & Uniform Allowances	6,532	6,000	6,000	6,000	0
4430 - Miscellaneous Supplies	313	0	0	0	0
4470 - Parts and Accessories	153	0	0	0	0
4500 - Education and Training	666	4,900	4,900	4,900	0
4720 - Conference Travel & Expenses	0	2,000	1,800	800	(1,000)
8050 - Equipment (under \$5,000)	2,726	3,000	2,500	4,400	1,900
Materials, Supplies and Services	10,389	15,900	15,200	16,100	900
Total Control Center	773,486	859,100	840,900	935,700	94,800

Budget Highlights

**Board of Water Supply
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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	FY2021 Actual	FY2021 Adopted Budget	FY2022 Adopted Budget	FY2023 Proposed Budget	Change
4110 - Salaries & Wages	391,280	463,400	393,500	433,200	39,700
4120 - Overtime	12,997	24,000	24,000	24,000	0
4130 - Miscellaneous (Payroll)	2,000	6,000	6,000	6,000	0
Personnel Services	406,277	493,400	423,500	463,200	39,700
4160 - Meals; Mileage & Uniform Allowances	1,282	2,000	2,000	3,000	1,000
4250 - Other Contractual Services	7,066	0	0	0	0
4460 - Other Materials & Supplies	8,268	26,000	26,000	10,000	(16,000)
4470 - Parts and Accessories	76,704	20,000	60,000	54,000	(6,000)
4500 - Education and Training	460	4,200	3,500	3,500	0
4720 - Conference Travel & Expenses	0	1,500	900	400	(500)
4815 - Repair & Maint - Equipment	8,639	12,000	12,000	14,400	2,400
8050 - Equipment (under \$5,000)	37,520	22,500	22,000	54,000	32,000
Materials, Supplies and Services	139,939	88,200	126,400	139,300	12,900
1270 - General Plant & Equip (over \$5,000)	0	10,000	0	15,000	15,000
Equipment	0	10,000	0	15,000	15,000
Total Technical Services	546,216	591,600	549,900	617,500	67,600

Budget Highlights

**Board of Water Supply
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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	FY2021 Actual	FY2021 Adopted Budget	FY2022 Adopted Budget	FY2023 Proposed Budget	Change
PS 4110 - Salaries & Wages	151,835	291,300	343,400	270,300	(73,100)
4120 - Overtime	3,972	16,000	16,000	12,000	(4,000)
4130 - Miscellaneous (Payroll)	4,300	2,000	2,000	2,000	0
Personnel Services	160,108	309,300	361,400	284,300	(77,100)
4160 - Meals; Mileage & Uniform Allowances	236	800	800	600	(200)
4250 - Other Contractual Services	47,734	137,000	116,000	63,000	(53,000)
4460 - Other Materials & Supplies	636	7,500	6,500	4,650	(1,850)
4470 - Parts and Accessories	77,697	72,000	80,000	75,000	(5,000)
4500 - Education and Training	0	2,450	2,100	1,750	(350)
4670 - Telemetry	211,367	210,000	200,000	220,000	20,000
4720 - Conference Travel & Expenses	0	1,500	900	400	(500)
4815 - Repair & Maint - Equipment	0	9,000	9,000	8,000	(1,000)
8050 - Equipment (under \$5,000)	0	113,500	153,400	81,500	(71,900)
Materials, Supplies and Services	337,670	553,750	568,700	454,900	(113,800)
E 1270 - General Plant & Equip (over \$5,000)	0	47,500	65,500	50,500	(15,000)
Equipment	0	47,500	65,500	50,500	(15,000)
Total Telecommunications	497,778	910,550	995,600	789,700	(205,900)

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	FY2021 Actual	FY2021 Adopted Budget	FY2022 Adopted Budget	FY2023 Proposed Budget	Change
PS 4110 - Salaries & Wages	1,302,241	1,458,000	1,439,900	1,439,000	(900)
4120 - Overtime	26,907	18,000	18,000	20,000	2,000
4130 - Miscellaneous (Payroll)	19,452	96,000	22,000	22,000	0
Personnel Services	1,348,600	1,572,000	1,479,900	1,481,000	1,100
4160 - Meals; Mileage & Uniform Allowances	630	1,800	1,800	1,800	0
4250 - Other Contractual Services	93,284	179,800	179,800	298,900	119,100
4251 - Software Licenses and Maintenance	0	5,100	5,100	5,100	0
4267 - Printed forms	0	300	300	300	0
4410 - Gasoline	599,711	803,200	803,200	883,520	80,320
4430 - Miscellaneous Supplies	1,312	600	600	1,000	400
4440 - Motor Vehicle Parts & Accessories	372,142	452,000	452,000	452,000	0
4460 - Other Materials & Supplies	106,301	108,500	108,500	108,500	0
4470 - Parts and Accessories	64,143	70,000	70,000	70,000	0
4500 - Education and Training	1,466	16,000	16,000	15,200	(800)
4720 - Conference Travel & Expenses	0	1,600	1,600	400	(1,200)
4805 - Repair & Maint - Structures	0	4,000	4,000	4,000	0
4815 - Repair & Maint - Equipment	50,357	90,000	90,000	90,000	0
4910 - Miscellaneous Fees & Registration	1,183	2,900	2,900	2,900	0
8050 - Equipment (under \$5,000)	8,686	16,200	23,150	16,630	(6,520)
Materials, Supplies and Services	1,299,216	1,752,000	1,758,950	1,950,250	191,300
E 1270 - General Plant & Equip (over \$5,000)	3,377,053	5,658,600	3,822,200	3,737,100	(85,100)
Equipment	3,377,053	5,658,600	3,822,200	3,737,100	(85,100)
Total Automotive	6,024,868	8,982,600	7,061,050	7,168,350	107,300

Budget Highlights

**Board of Water Supply
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Fiscal Year 2023**

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 Kaka'ako. The use of cold seawater for building cooling conserves potable water and energy that would otherwise be used in conventional mechanical cooling systems.

Account	FY2021 Actual	FY2021 Adopted Budget	FY2022 Adopted Budget	FY2023 Proposed Budget	Change
M 4250 - Other Contractual Services	399,380	260,000	380,000	400,000	20,000
4815 - Repair & Maint - Equipment	10,008	110,000	80,000	230,000	150,000
Materials, Supplies and Services	409,388	370,000	460,000	630,000	170,000
Total Ocean Cooling	409,388	370,000	460,000	630,000	170,000

Budget Highlights

**Board of Water Supply
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IT - Information Technology

Division/Office's Activity

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

Account	FY2021 Actual	FY2021 Adopted Budget	FY2022 Adopted Budget	FY2023 Proposed Budget	Change
4110 - Salaries & Wages	3,571,732	3,936,500	3,902,900	4,011,800	108,900
4120 - Overtime	112,128	169,400	153,000	175,500	22,500
4130 - Miscellaneous (Payroll)	43,582	13,000	12,000	63,980	51,980
Personnel Services	3,727,441	4,118,900	4,067,900	4,251,280	183,380
4160 - Meals; Mileage & Uniform Allowances	740	4,500	1,900	1,800	(100)
4250 - Other Contractual Services	5,792,351	6,410,533	6,236,035	10,522,195	4,286,160
4251 - Software Licenses and Maintenance	2,189,326	2,529,351	2,872,204	3,572,176	699,972
4270 - Professional Services	0	0	100,000	0	(100,000)
4430 - Miscellaneous Supplies	2,397	3,700	2,700	2,200	(500)
4460 - Other Materials & Supplies	92,942	144,500	144,200	110,700	(33,500)
4470 - Parts and Accessories	19,919	15,000	14,000	12,000	(2,000)
4480 - Postage	688,877	410,100	550,100	730,100	180,000
4500 - Education and Training	25,398	50,750	26,955	41,680	14,725
4720 - Conference Travel & Expenses	1,054	29,700	1,700	1,700	0
4815 - Repair & Maint - Equipment	361,713	346,350	282,950	297,600	14,650
4910 - Miscellaneous Fees & Registration	123,546	126,700	127,100	156,600	29,500
8050 - Equipment (under \$5,000)	276,888	978,210	1,106,324	1,424,035	317,711
Materials, Supplies and Services	9,575,152	11,049,394	11,466,168	16,872,786	5,406,618
1270 - General Plant & Equip (over \$5,000)	423,571	335,000	295,000	790,000	495,000
Equipment	423,571	335,000	295,000	790,000	495,000
Total IT - Information Technology	13,726,164	15,503,294	15,829,068	21,914,066	6,084,998

Notes

**Board of Water Supply
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IT - Information Technology

5805 - IT Administration

Section's Activity

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

Account	FY2021 Actual	FY2021 Adopted Budget	FY2022 Adopted Budget	FY2023 Proposed Budget	Change
PS 4110 - Salaries & Wages	460,210	422,000	440,000	532,000	92,000
4120 - Overtime	9,998	1,400	4,000	11,500	7,500
4130 - Miscellaneous (Payroll)	5,800	0	0	51,980	51,980
Personnel Services	476,008	423,400	444,000	595,480	151,480
4160 - Meals; Mileage & Uniform Allowances	290	400	400	300	(100)
4250 - Other Contractual Services	73,265	25,000	0	360,000	360,000
4251 - Software Licenses and Maintenance	835	0	0	230,000	230,000
4270 - Professional Services	0	0	100,000	0	(100,000)
4460 - Other Materials & Supplies	2,139	4,800	3,000	2,500	(500)
4500 - Education and Training	20,041	1,500	2,400	5,000	2,600
4720 - Conference Travel & Expenses	590	7,500	0	0	0
4910 - Miscellaneous Fees & Registration	61,473	68,200	75,100	98,100	23,000
8050 - Equipment (under \$5,000)	1,417	0	0	0	0
Materials, Supplies and Services	160,050	107,400	180,900	695,900	515,000
Total IT Administration	636,059	530,800	624,900	1,291,380	666,480

Budget Highlights

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IT - Information Technology

5820 - Application Systems Development

Section's Activity

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

Account	FY2021 Actual	FY2021 Adopted Budget	FY2022 Adopted Budget	FY2023 Proposed Budget	Change
PC 4110 - Salaries & Wages	907,169	1,077,600	1,078,600	1,096,400	17,800
4120 - Overtime	70,210	110,000	110,000	110,000	0
4130 - Miscellaneous (Payroll)	8,050	12,000	12,000	12,000	0
Personnel Services	985,429	1,199,600	1,200,600	1,218,400	17,800
4160 - Meals; Mileage & Uniform Allowances	78	3,600	1,500	1,500	0
4250 - Other Contractual Services	823,726	1,050,000	1,100,984	4,486,695	3,385,711
4251 - Software Licenses and Maintenance	960,138	1,257,291	1,354,614	1,615,626	261,012
4430 - Miscellaneous Supplies	0	1,200	1,200	1,200	0
4460 - Other Materials & Supplies	1,632	0	0	0	0
4500 - Education and Training	3,822	15,500	15,580	34,180	18,600
4720 - Conference Travel & Expenses	0	7,700	0	0	0
4910 - Miscellaneous Fees & Registration	0	26,000	26,000	26,000	0
Materials, Supplies and Services	1,789,395	2,361,291	2,499,878	6,165,201	3,665,323
Total Application Systems Development	2,774,825	3,560,891	3,700,478	7,383,601	3,683,123

Budget Highlights

**Board of Water Supply
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IT - Information Technology

5835 - Technical Projects

Section's Activity

The Technical Engineering Projects (TEP) Branch plans, designs, installs, implements, manages, maintains, and supports the 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	FY2021 Actual	FY2021 Adopted Budget	FY2022 Adopted Budget	FY2023 Proposed Budget	Change
PS 4110 - Salaries & Wages	896,187	867,800	932,900	891,700	(41,200)
4120 - Overtime	1,094	4,000	4,000	4,000	0
4130 - Miscellaneous (Payroll)	9,332	0	0	0	0
Personnel Services	906,613	871,800	936,900	895,700	(41,200)
4250 - Other Contractual Services	939,507	1,106,000	810,000	910,000	100,000
4251 - Software Licenses and Maintenance	303,798	332,300	420,500	402,500	(18,000)
4430 - Miscellaneous Supplies	17	500	500	500	0
4460 - Other Materials & Supplies	1,988	1,200	1,200	1,200	0
4480 - Postage	145	100	100	100	0
4500 - Education and Training	109	17,500	2,500	2,500	0
4720 - Conference Travel & Expenses	464	6,700	1,700	1,700	0
4815 - Repair & Maint - Equipment	3,551	4,600	4,600	6,500	1,900
4910 - Miscellaneous Fees & Registration	0	6,500	0	6,500	6,500
8050 - Equipment (under \$5,000)	6,839	10,500	2,000	7,500	5,500
Materials, Supplies and Services	1,256,417	1,485,900	1,243,100	1,339,000	95,900
1270 - General Plant & Equip (over \$5,000)	0	15,000	15,000	0	(15,000)
Equipment	0	15,000	15,000	0	(15,000)
Total Technical Engineering Projects	2,163,029	2,372,700	2,195,000	2,234,700	39,700

Budget Highlights

**Board of Water Supply
Operating Budget
Fiscal Year 2023**

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, mobile devices, cloud based services, etc.

Account	FY2021 Actual	FY2021 Adopted Budget	FY2022 Adopted Budget	FY2023 Proposed Budget	Change
PS 4110 - Salaries & Wages	1,308,165	1,569,100	1,451,400	1,491,700	40,300
4120 - Overtime	30,826	54,000	35,000	50,000	15,000
4130 - Miscellaneous (Payroll)	20,400	1,000	0	0	0
Personnel Services	1,359,391	1,624,100	1,486,400	1,541,700	55,300
4160 - Meals; Mileage & Uniform Allowances	372	500	0	0	0
4250 - Other Contractual Services	3,955,852	4,229,533	4,325,051	4,765,500	440,449
4251 - Software Licenses and Maintenance	924,556	939,760	1,097,090	1,324,050	226,960
4430 - Miscellaneous Supplies	2,381	2,000	1,000	500	(500)
4460 - Other Materials & Supplies	87,183	138,500	140,000	107,000	(33,000)
4470 - Parts and Accessories	19,919	15,000	14,000	12,000	(2,000)
4480 - Postage	688,732	410,000	550,000	730,000	180,000
4500 - Education and Training	1,426	16,250	6,475	0	(6,475)
4720 - Conference Travel & Expenses	0	7,800	0	0	0
4815 - Repair & Maint - Equipment	358,162	341,750	278,350	291,100	12,750
4910 - Miscellaneous Fees & Registration	62,073	26,000	26,000	26,000	0
8050 - Equipment (under \$5,000)	268,633	967,710	1,104,324	1,416,535	312,211
Materials, Supplies and Services	6,369,289	7,094,803	7,542,290	8,672,685	1,130,395
1270 - General Plant & Equip (over \$5,000)	423,571	320,000	280,000	790,000	510,000
Equipment	423,571	320,000	280,000	790,000	510,000
Total Operations Support	8,152,251	9,038,903	9,308,690	11,004,385	1,695,695

Budget Highlights

**Board of Water Supply
Operating Budget
Fiscal Year 2023**

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	FY2021 Actual	FY2021 Adopted Budget	FY2022 Adopted Budget	FY2023 Proposed Budget	Change
PS 4110 - Salaries & Wages	2,392,900	2,493,200	2,301,600	2,335,200	33,600
4120 - Overtime	67,418	117,400	61,800	63,300	1,500
4130 - Miscellaneous (Payroll)	86,966	30,200	73,000	72,000	(1,000)
Personnel Services	2,547,284	2,640,800	2,436,400	2,470,500	34,100
4160 - Meals; Mileage & Uniform Allowances	4,260	12,500	5,200	5,500	300
4220 - Collection Fees	266	0	0	500	500
4250 - Other Contractual Services	13,105	13,100	16,800	10,000	(6,800)
4267 - Printed forms	501	0	0	0	0
4270 - Professional Services	986,308	1,151,500	1,369,600	1,021,600	(348,000)
4430 - Miscellaneous Supplies	9,695	15,000	15,000	15,000	0
4460 - Other Materials & Supplies	2,340	3,500	3,500	1,000	(2,500)
4500 - Education and Training	3,935	400	7,200	4,400	(2,800)
4720 - Conference Travel & Expenses	0	800	10,900	3,100	(7,800)
4815 - Repair & Maint - Equipment	3,501	9,000	9,000	9,000	0
4910 - Miscellaneous Fees & Registration	1,212	400	1,000	1,250	250
4915 - Miscellaneous Financial Expenses	1,035,061	1,954,000	2,084,000	2,290,000	206,000
8050 - Equipment (under \$5,000)	1,942	9,700	700	5,300	4,600
Materials, Supplies and Services	2,062,125	3,169,900	3,522,900	3,366,650	(156,250)
E 1270 - General Plant & Equip (over \$5,000)	0	0	0	65,000	65,000
Equipment	0	0	0	65,000	65,000
Total FIN - Finance	4,609,409	5,810,700	5,959,300	5,902,150	(57,150)

Notes

**Board of Water Supply
Operating Budget
Fiscal Year 2023**

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	FY2021 Actual	FY2021 Adopted Budget	FY2022 Adopted Budget	FY2023 Proposed Budget	Change
4110 - Salaries & Wages	378,879	341,300	369,800	381,100	11,300
4120 - Overtime	584	500	200	0	(200)
4130 - Miscellaneous (Payroll)	8,375	0	0	0	0
Personnel Services	387,837	341,800	370,000	381,100	11,100
4160 - Meals; Mileage & Uniform Allowances	24	0	0	300	300
4250 - Other Contractual Services	1,773	5,000	5,000	5,000	0
4270 - Professional Services	244,800	258,500	336,600	308,600	(28,000)
4430 - Miscellaneous Supplies	9,408	15,000	15,000	15,000	0
4500 - Education and Training	3,935	400	7,200	4,400	(2,800)
4720 - Conference Travel & Expenses	0	800	10,900	3,100	(7,800)
4815 - Repair & Maint - Equipment	1,377	1,000	1,000	1,000	0
4910 - Miscellaneous Fees & Registration	1,212	0	1,000	1,250	250
4915 - Miscellaneous Financial Expenses	7,000	0	0	0	0
8050 - Equipment (under \$5,000)	0	3,800	0	0	0
Materials, Supplies and Services	269,528	284,500	376,700	338,650	(38,050)
1270 - General Plant & Equip (over \$5,000)	0	0	0	65,000	65,000
Equipment	0	0	0	65,000	65,000
Total Finance Administration	657,365	626,300	746,700	784,750	38,050

Budget Highlights

**Board of Water Supply
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Fiscal Year 2023**

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	FY2021 Actual	FY2021 Adopted Budget	FY2022 Adopted Budget	FY2023 Proposed Budget	Change
PS 4110 - Salaries & Wages	84,148	96,600	100,600	103,900	3,300
4120 - Overtime	0	2,000	1,000	1,000	0
Personnel Services	84,148	98,600	101,600	104,900	3,300
M 4270 - Professional Services	741,508	793,000	533,000	713,000	180,000
4910 - Miscellaneous Fees & Registration	0	200	0	0	0
4915 - Miscellaneous Financial Expenses	1,028,061	1,954,000	2,084,000	2,290,000	206,000
Materials, Supplies and Services	1,769,569	2,747,200	2,617,000	3,003,000	386,000
Total Treasury	1,853,717	2,845,800	2,718,600	3,107,900	389,300

Budget Highlights

**Board of Water Supply
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Fiscal Year 2023**

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; maintaining revenue accounting and statistical reports.

Account	FY2021 Actual	FY2021 Adopted Budget	FY2022 Adopted Budget	FY2023 Proposed Budget	Change
PS 4110 - Salaries & Wages	972,888	1,143,500	887,100	882,400	(4,700)
4120 - Overtime	56,000	100,000	50,000	50,000	0
4130 - Miscellaneous (Payroll)	60,842	2,000	2,000	2,000	0
Personnel Services	1,089,730	1,245,500	939,100	934,400	(4,700)
4160 - Meals; Mileage & Uniform Allowances	3,549	12,000	5,000	5,000	0
4250 - Other Contractual Services	11,332	8,100	11,800	5,000	(6,800)
4430 - Miscellaneous Supplies	279	0	0	0	0
4460 - Other Materials & Supplies	2,340	3,500	3,500	1,000	(2,500)
4815 - Repair & Maint - Equipment	2,124	8,000	8,000	8,000	0
8050 - Equipment (under \$5,000)	1,942	2,500	0	2,000	2,000
Materials, Supplies and Services	21,565	34,100	28,300	21,000	(7,300)
Total Rev	1,111,295	1,279,600	967,400	955,400	(12,000)

Budget Highlights

**Board of Water Supply
Operating Budget
Fiscal Year 2023**

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	FY2021 Actual	FY2021 Adopted Budget	FY2022 Adopted Budget	FY2023 Proposed Budget	Change
PS 4110 - Salaries & Wages	664,927	647,300	655,900	672,000	16,100
4120 - Overtime	9,849	12,900	7,900	9,100	1,200
4130 - Miscellaneous (Payroll)	17,750	28,000	71,000	70,000	(1,000)
Personnel Services	692,527	688,200	734,800	751,100	16,300
4160 - Meals; Mileage & Uniform Allowances	686	500	200	200	0
4220 - Collection Fees	266	0	0	500	500
4267 - Printed forms	501	0	0	0	0
4430 - Miscellaneous Supplies	9	0	0	0	0
4910 - Miscellaneous Fees & Registration	0	200	0	0	0
8050 - Equipment (under \$5,000)	0	3,100	700	3,300	2,600
Materials, Supplies and Services	1,463	3,800	900	4,000	3,100
Total General Accounting	693,989	692,000	735,700	755,100	19,400

Budget Highlights

**Board of Water Supply
Operating Budget
Fiscal Year 2023**

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; maintains and coordinates an online 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 and administers the purchasing card program for the procurement of goods and services. Fiscal Services designs hard-copy and electronic encumbrance liquidation and payment forms for departmental use and submittal to Accounts Payable.

Account	FY2021 Actual	FY2021 Adopted Budget	FY2022 Adopted Budget	FY2023 Proposed Budget	Change
PS 4110 - Salaries & Wages	213,258	194,800	215,500	220,200	4,700
4120 - Overtime	64	0	0	200	200
Personnel Services	213,322	194,800	215,500	220,400	4,900
M 4270 - Professional Services	0	0	500,000	0	(500,000)
4460 - Other Materials & Supplies	0	0	0	0	0
8050 - Equipment (under \$5,000)	0	300	0	0	0
Materials, Supplies and Services	0	300	500,000	0	(500,000)
Total Fiscal Services	213,322	195,100	715,500	220,400	(495,100)

Budget Highlights

**Board of Water Supply
Operating Budget
Fiscal Year 2023**

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	FY2021 Actual	FY2021 Adopted Budget	FY2022 Adopted Budget	FY2023 Proposed Budget	Change
PS 4110 - Salaries & Wages	78,799	69,700	72,700	75,600	2,900
4120 - Overtime	922	2,000	2,700	3,000	300
4130 - Miscellaneous (Payroll)	0	200	0	0	0
Personnel Services	79,721	71,900	75,400	78,600	3,200
4270 - Professional Services	0	100,000	0	0	0
Materials, Supplies and Services	0	100,000	0	0	0
Total Systems Accounting	79,721	171,900	75,400	78,600	3,200

Budget Highlights

**Board of Water Supply
Operating Budget
Fiscal Year 2023**

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	FY2021 Actual	FY2021 Adopted Budget	FY2022 Adopted Budget	FY2023 Proposed Budget	Change
4610 - Electric Power - Water Distrib Fac	20,933,546	25,000,000	22,000,000	26,000,000	4,000,000
4620 - Electricity	990,714	1,252,000	1,100,000	1,200,000	100,000
4660 - Wastewater Service Charges	114,656	110,000	120,000	120,000	0
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)	10,671,578	9,000,000	11,000,000	12,400,000	1,400,000
6020 - FICA Contributions	3,198,635	3,000,000	3,200,000	3,000,000	(200,000)
6100 - Health Benefits - Employees	4,020,468	3,780,000	4,000,000	4,300,000	300,000
6200 - Health Benefits - Retirees	6,682,363	5,852,000	7,280,400	7,050,000	(230,400)
6250 - Other Post-Emplymnt Ben (OPEB)	1,782,837	2,600,000	1,637,608	2,090,000	452,392
6320 - Unemployment Insurance Benefits	49,087	15,000	13,000	24,500	11,500
Departmental Fixed Charges	51,743,884	53,909,000	53,651,008	59,484,500	5,833,492
1810 - Bonds Payable	11,125,000	9,450,000	12,605,000	14,845,000	2,240,000
1820 - Notes Payable - State Revolving Funds (SRF)	4,976,861	6,012,000	6,591,000	7,094,300	503,300
7071 - Bond Interest	9,561,688	8,752,000	10,392,000	12,571,600	2,179,600
Debt Service	25,663,549	24,214,000	29,588,000	34,510,900	4,922,900
Total Fixed Charges and Debt Service	77,407,433	78,123,000	83,239,008	93,995,400	10,756,392

Budget Highlights



PART II

CAPITAL IMPROVEMENT PROGRAM BUDGET

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Board of Water Supply
Capital Improvement Program
FY 2023

Summary by Categories	Operating Fund (1)	Operating Fund - SRF Eligible (2)	Special Expendable Fund (3)	Improvement Fund (4)	Extramural Fund (5)	Total
I. Research and Development	19,999,500	-	-	-	-	19,999,500
II. Renewal and Replacement						
A. Pumps	6,100,000	-	-	16,400,000	6,000,000	28,500,000
B. Reservoirs	-	-	-	-	8,500,000	8,500,000
C. Pipelines	200,000	500,000	-	37,120,000	4,800,000	42,620,000
D. Treatment	1,500,000	-	-	-	-	1,500,000
E. Facilities	6,050,000	-	-	4,800,000	6,000,000	16,850,000
Category II - sub-total	13,850,000	500,000	-	58,320,000	25,300,000	97,970,000
III. Capacity Expansion						
A. Pumps	-	-	4,950,000	-	-	4,950,000
B. Reservoirs	-	-	-	-	-	-
C. Pipelines	-	-	-	-	-	-
D. Treatment	-	-	-	-	-	-
E. Facilities	-	-	19,000,000	-	-	19,000,000
Category III - sub-total	-	-	23,950,000	-	-	23,950,000
Total - Categories I - III	33,849,500	500,000	23,950,000	58,320,000	25,300,000	141,919,500
Construction Cost Index Account	3,051,825	-	3,300,000	7,803,000	3,585,000	17,739,825
Contract Adjustment Account	21,450,000	-	-	-	-	21,450,000
Capital Improvement Program - Total	58,351,325	500,000	27,250,000	66,123,000	28,885,000	181,109,325

(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.

(5) Extramural Fund is a restricted fund, established by Resolution No. 778, 2007, in which funds received from any governmental agency or private entity, pursuant to negotiated agreements, contracts and/or grants, are deposited and separately accounted for.

Board of Water Supply
Capital Improvement Program
FY 2023

				Operating Fund	Operating Fund - SRF	Special Expendable Fund	Improvement Funds	Extramural Fund	Total
<u>I. Research and Development</u>									
1. Manoa Well II Exploratory Well	Drill and case replacement exploratory well at existing Manoa Wells II Station (TMK: 2-9-054:033).	CP	Const	1,000,000	-	-	-		1,000,000
2. Exploratory Wells for Red Hill Contamination Response	Drill, case, install test pump and sample up to three (3) exploratory wells as possible replacement sources for the loss of Halawa Shaft due to the Red Hill fuel contamination.	CP	Const	7,567,250	-	-	-		7,567,250
3. Monitoring Wells for Red Hill Contamination Response	Drill and case up to three (3) monitoring wells for use as "sentinel" wells to warn of the presence of an underground fuel plume from the Red Hill fuel contamination.	CP	P&E	3,679,000					3,679,000
			Const	3,228,250	-	-	-	3,228,250	
4. Waikele Gulch Exploratory Wells	Prepare plans, specifications, construction bid documents, obtain necessary permits and engineering report to drill, install, test pump and sample up to two exploratory wells.	CP	P&E	2,250,000					2,250,000
			P&E	275,000	-	-	-	275,000	
5. Construction Management for Various BWS Construction	Provide construction management and training services for selected BWS construction projects.	CP	P&E	2,000,000	-	-	-		2,000,000
Total Category I - Research and Development				19,999,500	0	0	0	0	19,999,500

Board of Water Supply
Capital Improvement Program
FY 2023

				Operating Fund	Operating Fund - SRF	Special Expendable Fund	Improvement Funds	Extramural Fund	Total
<u>II. Renewal and Replacement</u>									
A. Pumps									
6. Honouliuli Wells II MCC Replacement	Replacement of above ground piping and valves at pumping units, replacement of MCC and other electrical equipment, replacement of hydro-pneumatic tank, and modification to existing control building.	CP-ME	Const				5,900,000		5,900,000
7. Mililani Wells IV – Replacement of Pumps No. 1 and 3	Replacement of pumping units and controls and starters, replacement above ground piping and valves at pumping units, replacement of MCC and other electrical equipment, perform wastewater vault investigation, and perform	CP-ME	Const				8,000,000		8,000,000
8. Haleiwa Wells Renovation	Replacement of pumping units and controls and starters, replacement of above ground piping and valves at pumping units, replacement and relocation of the site electrical transformer, replacement of MCC and other electrical equipment, and perform new permanent discharge study.	CP-ME	Const					6,000,000	6,000,000
9. Temporary Pumping Connections	Install connections for temporary pumps at critical pump stations to improve reliability	CP-ME	Const				2,500,000		2,500,000
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 2023

				Operating Fund	Operating Fund - SRF	Special Expendable Fund	Improvement Funds	Extramural Fund	Total
11. Selected Deactivated Wells Condition Assessment	Conduct a condition assessment of one well each at the existing Waimalu Wells II, Kaonohi Wells II sites and the Kaamilo Wells Unit #2, to determine the viability of the wells for potable production use to add more source capacity to the Metropolitan system to make up for the loss of Halawa Shaft caused by the Red Hill fuel contamination.	WR	P&E	1,500,000					1,500,000
12. Kailua Heights Booster Electrical Upgrades	Install electrical upgrades and facility repairs	CP-ME	P&E	450,000					450,000
13. Niu Valley Booster No. 1 MCC Replacement	Install MCC replacement and facility repairs	CP-ME	P&E	400,000					400,000
14. Pump Renewal and Replacement	Renewal and replacement of various BWS pumps and plant facilities.	CP-ME	P&E	250,000					250,000
Pumps Total				6,100,000	-	-	16,400,000	6,000,000	28,500,000
B. Reservoirs									
15. Wilhelmina Rise 811 Reservoir Replacement	Replace the existing 0.43 reservoir and appurtenances.	CP-D	Const	-	-	-		8,500,000	8,500,000
Reservoirs Total				-	-	-	-	8,500,000	8,500,000

Board of Water Supply
Capital Improvement Program
FY 2023

				Operating Fund	Operating Fund - SRF	Special Expendable Fund	Improvement Funds	Extramural Fund	Total
C. Pipelines									
16. Palolo Water System Improvements, Part IV	Install 16-inch mains and appurtenances along Pakui Street from 10th Avenue to Wilhelmina Rise 405 Reservoir, along 10th Avenue from Maluhia Avenue to Pakui Street, along Pukele Avenue from 7th Avenue to Maluhia Avenue, along 7th Avenue from Kaau Street to Pukele Avenue, along Kaau Street from Palolo Avenue to 7th Avenue and along Palolo Avenue from Kaau Street to Waialae Avenue - approx. 4,150 lin. ft. Install 12-inch mains and appurtenances along Kalua Road from Mahana Street to 10th Avenue - approx. 985 lin. ft. Install 8-inch mains and appurtenances along 9th Avenue from Paalea Street to Kiwili Street - approx. 2,410 lin.	CP-D	Const				11,000,000		11,000,000
17. Moanalua Road 8-Inch Main, Waimalu Neighborhood Park Vicinity	Install 8-inch mains and appurtenances along Moanalua Road, from fire hydrant L00646 to Kaahele Road - approx. 580 lin. ft.	CP-D	Const				1,400,000		1,400,000
18. Barbers Point 215 Water System Improvements	Install 30-Inch main and appurtenances along the Barbers Point 215 facility access road from Old Farrington Highway to Reservoir No. 1 - approx. 300 lin. ft. Install new drainline along the flowage easement to facilitate the draining of the reservoirs	CP-D	Const				1,200,000		1,200,000
19. Halupa Street 12-Inch Main	Install 12-inch mains and appurtenances along Halupa Street, from Molehu Drive to Punihi Street - approx. 1,200 lin. ft.	CP-D	Const				3,100,000		3,100,000
20. Kahilina Place and Aiea Heights Drive Area Water System Improvements	Install 8-inch mains and appurtenances along Kahilina Place, from Aiea Heights Drive to end; along Aiea Heights Drive, from Hoio Street to Aiea 277 Reservoir; along Aheahe Street, from Kanaloa Street to Aiea Heights Drive; and along Hakina Street, from Kanaloa Street to Kaulainahee Place - approx. 4,070 lin. ft.	CP	Const				4,920,000		4,920,000
21. Mailiili Road 20-Inch Main, Paakea Road to Luualualei Homestead Road	Install 20-inch main and appurtenances along Mailiili Road, from Paakea Road to Luualualei Homestead Road - approx. 3,800 lin. ft.	CP	Const	-	-	-	5,700,000		5,700,000

Board of Water Supply
Capital Improvement Program
FY 2023

				Operating Fund	Operating Fund - SRF	Special Expendable Fund	Improvement Funds	Extramural Fund	Total
22. Kakela Drive and Mohala Way Water System Improvements	Install 8-inch mains and appurtenances along Kakela Drive, from McKinley Street to McKinley Street; and along Mohala Way, from East Manoa Road to Beckwith Street - approx. 1,865 lin. ft. Install 8-inch and 4-inch mains along Kakela Place, from Kakela Drive to end; and along Kakela Iki Place, from Kakela Drive to end - approx. 300 lin. ft.	CP	Const				2,000,000		2,000,000
21. Monsarrat Avenue Water System Improvements	Install 16-inch mains and appurtenances along Monsarrat Avenue from 225 feet west of Paki Avenue to Campbell Avenue, along Campbell Avenue from Monsarrat Avenue to Kaunaoa Street - approx. 2,030 lin. ft. Install 12-inch mains and appurtenances along Campbell Avenue from Monsarrat Avenue to Kaunaoa Street - approx. 310 lin. ft. Install 8-inch mains and appurtenances along Monsarrat Avenue from Paki Avenue to Campbell Avenue, and along Kanaina Avenue from Monsarrat Avenue to Kaunaoa Street - approx. 1,740 lin. ft.	CP	Const					4,800,000	4,800,000
22. Diamond Head Water System Improvements Part III	Install 12-inch mains and appurtenances along Puu Panini Avenue from 22nd Avenue to Palekaua Street, along Palekaua Street from Puu Panini Avenue to Hakaka Street - approx. 1,100 lin. ft. Install 8-inch and 4-inch mains and appurtenances along Palekaua Place from Palekaua Street to end - approx. 220 lin. ft.	CP	Const				1,800,000		1,800,000
23. Water Main Installation & Replacement	Install and replace water mains at various locations.	CP	Const	50,000	-	-	-		50,000
24. Water System Improvements at Various Locations	Install mains and appurtenance to replace high risk water mains at various locations throughout the island.	CP	P&E	-	-	-	6,000,000		6,000,000
25. Kapolei Parkway 24-Inch R-1 Water Main	Install 24-inch mains and appurtenances along Kapolei Parkway, from near FH No. L04892 to Kamokila Boulevard - approx. 700 lin. ft.	CP	P&E		500,000	-	-		500,000

Board of Water Supply
Capital Improvement Program
FY 2023

					Operating Fund	Operating Fund - SRF	Special Expendable Fund	Improvement Funds	Extramural Fund	Total
26. Service Laterals of Unknown Materials Replacements	Replace service laterals of unknown materials at various locations	WQ	P&E		100,000	-	-	-		100,000
27. Water Main Installation & Replacement	Install and replace water mains at various locations.	CP	P&E		50,000	-	-	-		50,000
Pipelines Total					200,000	500,000	-	37,120,000	4,800,000	42,620,000
D. Treatment										
28. 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		1,000,000					1,000,000
			P&E		500,000					500,000
Treatment Total					1,500,000	-	-	-	-	1,500,000
E. Facilities										
29. Nuuanu Reservoir No. 1 Dam Improvements	Rehabilitate dam, spillway and outlet works; install remote water level monitoring equipment	CP-S	Const					3,000,000		3,000,000
30. 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					1,500,000		1,500,000
	Project planning, design, and management services	WSO	P&E					300,000		300,000
31. Facility Repair and Renovation	Repair, renovation, reroofing, fencing and repainting of selected BWS facilities.	CP-S	Const		4,000,000	-	-	-		4,000,000
32. 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		-		-		4,600,000	4,600,000

Board of Water Supply
Capital Improvement Program
FY 2023

				Operating Fund	Operating Fund - SRF	Special Expendable Fund	Improvement Funds	Extramural Fund	Total
33. Nuuanu Reservoir No. 2 and 3 - Assessment of Dams' Safety	Evaluate the overall integrity of the dams and identify any safety improvements needed.	LAND	P&E	250,000					250,000
34. Kaahumanu Wells Control Valve Renovation	Upgrade control valve assembly and water line connections to more efficiently allow the controlled release of Pearl Harbor 285 system water into the Metropolitan 180 system needed due to the loss of Halawa Shaft because of the Red Hill fuel contamination.	CP	P&E					650,000	650,000
35. Manana Wells Control Valve Installation	Install a control valve assembly and water line connections to allow the controlled release of Pearl Harbor 285 system water into the Metropolitan 180 system needed due to the loss of Halawa Shaft because of the Red Hill fuel contamination.	CP	P&E					750,000	750,000
36. Pump Station Assessment and Operations/Repairs	Update pump station condition assessments and operations database	WSO	P&E	300,000					300,000
37. Facility Repair and Renovation	Repair, renovation, reroofing, fencing and repainting of selected BWS facilities.	CP-S	P&E	1,250,000					1,250,000
38. Monitoring Well Assessment and Repair	Provide well condition assessment and associated repair services for monitor wells.	WR	P&E	50,000					50,000
39. Professional Services for BWS Projects	Obtain services of archaeologists, botanists, environmental engineers, water quality labs, planners, government agencies and others.	CP	P&E	200,000					200,000
Facilities Total				6,050,000	-	-	4,800,000	6,000,000	16,850,000
Total Category II - Renewal and Replacement				13,850,000	500,000	-	58,320,000	25,300,000	97,970,000

Board of Water Supply
Capital Improvement Program
FY 2023

				Operating Fund	Operating Fund - SRF	Special Expendable Fund	Improvement Funds	Extramural Fund	Total
III. Capacity Expansion									
A. Pumps									
40. Ewa Shaft Tunnel Improvements	Drill, case, install test pump and sample up to five (5) exploratory wells	CP	Const			4,000,000			4,000,000
41. Kunia Wells IV	Prepare environmental assessment and Public Infrastructure Map (PIM) Amendment for three (3) production wells and GAC treatment facility for Kunia Wells IV	WR	P&E			450,000			450,000
42. Hawaii State Hospital Well Test	Survey, video log, clean and clear, test pump and sample well. Provide technical report of findings and recommendations regarding feasibility of bringing well into service.	WR	P&E			400,000			400,000
43. Pacific Heights Booster No. 1	Determine land acquisition costs for the site of a 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				-	-	4,950,000	-	-	4,950,000
B. Reservoirs									
Reservoirs Total				-	-	-	-	-	-
C. Pipelines									
Pipelines Total				-	-	-	-	-	-
D. Treatment									
Treatment Total				-	-	-	-	-	-

Board of Water Supply
Capital Improvement Program
FY 2023

				Operating Fund	Operating Fund - SRF	Special Expendable Fund	Improvement Funds	Extramural Fund	Total	
E. Facilities										
44. 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.	WR	Const	-	-	18,000,000	-	-	18,000,000	
	Provide project management services to monitor DBOM progress, plans review and RFI response.	WR	P&E	-	-	1,000,000	-	-	1,000,000	
Facilities Total				-	-	19,000,000	-	-	19,000,000	
Total Category III - Capacity Expansion				-	-	23,950,000	-	-	23,950,000	
Total Categories I - III				33,849,500	500,000	23,950,000	58,320,000	25,300,000	141,919,500	
Construction Cost Index Adjustment				3,051,825	-	3,300,000	7,803,000	3,585,000	17,739,825	
Contract Adjustment Account				21,450,000	-	-	-	-	21,450,000	
FY 2022 Capital Improvement Program Total				58,351,325	500,000	27,250,000	66,123,000	28,885,000	181,109,325	

REGULAR MEETING

Chair Andaya called the Regular Meeting to order at 2:58 PM.

APPROVAL OF MEETING Approval of the Minutes of the Regular Meeting Held on April 25, 2022.

MOTION TO APPROVE Max Sword and Dawn Szewczyk motioned and seconded, respectively, to approve the Minutes of the Regular Meeting of April 25, 2022.

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 25, 2022 WERE APPROVED AT THE MAY 23, 2022 BOARD MEETING			
	AYE	NO	COMMENT
BRYAN P. ANDAYA	X		
KAPUA SPROAT	X		
RAY C. SOON			ABSENT
MAX J. SWORD	X		
NA'ALEHU ANTHONY	X		
JADE T. BUTAY	X		
DAWN B. SZEWCZYK	X		

APPROVAL OF MEETING

Approval of the Minutes of the Budget Workshop Held on May 9, 2022.

MOTION TO APPROVE

Max Sword and Kapua Sproat motioned and seconded, respectively, to approve the Minutes of the Regular Meeting of May 9, 2022.

Chair Andaya requested 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 Max Sword, aye; Board Member Na'alehu Anthony, abstain; Board Member Jade Butay, aye; Board Member Dawn Szewczyk, aye; and Chair Bryan Andaya, aye.

Ms. Cruz-Achui announced that the motion passed with five ayes and one abstention.

THE MINUTES OF THE BUDGET WORKSHOP HELD ON MAY 9, 2022 WERE APPROVED AT THE MAY 23, 2022 BOARD MEETING			
	AYE	NO	COMMENT
BRYAN P. ANDAYA	X		
KAPUA SPROAT	X		
RAY C. SOON			ABSENT
MAX J. SWORD	X		
NA'ALEHU ANTHONY			ABSTAIN
JADE T. BUTAY	X		
DAWN B. SZEWCZYK	X		

"May 23, 2022

ADOPTION OF
RESOLUTION
NO. 941, 2022,
ADOPTION OF THE
OPERATING
AND CAPITAL
IMPROVEMENT
PROGRAM
FOR THE
FISCAL YEAR
2022-2023 AND
APPROPRIATING
FUNDS
THEREFOR

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

Chair and Members:

Subject: Adoption of Resolution No. 941, 2022, Adoption of the
Operating and Capital Improvement Program Budget for the
Fiscal Year 2022-2023 and Appropriating Funds Therefor

We recommend adoption of the proposed Operating and Capital
Improvement Program Budget for the fiscal year beginning July 1, 2022
and ending June 30, 2023.

A Public Hearing to consider the proposed budget, as required by the City
Charter, was held on May 23, 2022. The affidavit attesting to the
publication of the Public Hearing notice is attached.

We further recommend adoption of the attached Resolution No. 941, 2022,
appropriating funds for the Operating and Capital Improvement Program
Budget for Fiscal Year 2022-2023, as follows:

1. The sum of \$237,240,444 from the Operating Fund for Operating
Budget expenditures.
2. The sum of \$58,851,325 from the Operating Fund, \$66,123,000
from the Improvement Fund, \$27,250,000 from the Special
Expendable Fund, and \$28,885,000 from the Extramural Fund for a
total of \$181,109,325 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,
gave the report. There were no comments or discussion.

Chair Andaya asked Board Secretary Ms. Cruz-Achui if there were any
written testimony or if anyone was on the telephone or in-person waiting to
testify. Ms. Cruz-Achui responded that there was no written testimony or
anyone waiting on the telephone or in-person to testify.

Chair Andaya thanked Manager Lau, Mr. Takaki, Ms. Nakabayashi, and the BWS for working together to put together the Operating and CIP Budget.

**MOTION
TO APPROVE**

Max Sword and Jade Butay motioned and seconded, respectively, to approve the Adoption of Resolution 941, 2022, Adoption of the Operating and Capital Improvement Program Budget for the Fiscal Year 2022-2023 and Appropriating Funds Therefor.

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

Ms. Cruz-Achiu 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 Dawn Szewczyk, aye; and Chair Bryan Andaya, aye.

Ms. Cruz-Achiu announced that the motion passed with six ayes.

ADOPTION OF RESOLUTION NO. 941, 2022, ADOPTION OF THE OPERATING AND CAPITAL IMPROVEMENT PROGRAM BUDGET FOR THE FISCAL YEAR 2022-2023 AND APPROPRIATING FUNDS THEREFOR			
	AYE	NO	COMMENT
BRYAN P. ANDAYA	X		
KAPUA SPROAT	X		
RAY C. SOON			ABSENT
MAX J. SWORD	X		
NA'ALEHU ANTHONY	X		
JADE T. BUTAY	X		
DAWN B. SZEWCZYK	X		

BOARD OF WATER SUPPLY
CITY AND COUNTY OF HONOLULU

RESOLUTION NO. 941, 2022

**RESOLUTION ADOPTING THE OPERATING AND CAPITAL IMPROVEMENT
PROGRAM BUDGET FOR FISCAL YEAR 2023 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 THIRTY-SEVEN MILLION TWO HUNDRED FORTY THOUSAND FOUR HUNDRED AND FORTY-FOUR DOLLARS (\$237,240,444) 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, 2022 and ending June 30, 2023 as follows:

OPERATING BUDGET

OPERATING FUND.....\$237,240,444

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 FIFTY-EIGHT MILLION EIGHT HUNDRED FIFTY-ONE THOUSAND THREE HUNDRED TWENTY-FIVE DOLLARS

(\$58,851,325) be and the same is hereby appropriated out of all monies placed to the credit of the Operating Fund, the sum of SIXTY-SIX MILLION ONE HUNDRED TWENTY-THREE THOUSAND DOLLARS (\$66,123,000) be and the same is hereby appropriated out of all monies placed to the credit of the Improvement Fund, the sum of TWENTY-SEVEN MILLION TWO HUNDRED FIFTY THOUSAND DOLLARS (\$27,250,000) be and the same is hereby appropriated out of all monies placed to the credit of the Special Expendable Fund, and the sum of TWENTY-EIGHT MILLION EIGHT-HUNDRED EIGHTY-FIVE THOUSAND DOLLARS (\$28,885,000) be and the same is hereby appropriated out of all monies placed to the credit of the Extramural Fund for a total of ONE HUNDRED EIGHTY-ONE MILLION ONE HUNDRED NINE THOUSAND THREE HUNDRED TWENTY-FIVE DOLLARS (\$181,109,325) for expenditures of the Board of Water Supply Capital Improvement Program Budget for the fiscal year beginning July 1, 2022 and ending June 30, 2023, as follows:

CAPITAL IMPROVEMENT PROGRAM BUDGET

OPERATING FUND.....	\$ 58,851,325
IMPROVEMENT FUND.....	\$ 66,123,000
SPECIAL EXPENDABLE FUND.....	\$ 27,250,000
EXTRAMURAL FUND.....	\$ 28,885,000
TOTAL.....	\$ 181,109,325

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,

Special Expendable Fund, and Extramural 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 FURTHER RESOLVED, that the Board of Water Supply may receive monies which use is specified or otherwise limited by the monies' source from any government or quasi-governmental agency. These monies include Coronavirus State and Local Fiscal Recovery Fund funds from the American Rescue Plan Act of 2021 (Pub. L. 117-2). When such funds are received, in amounts 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 Extramural Fund, the Board of Water Supply shall maintain accounts showing the monies so received and specifying the purposes for which they have been received and held; and

BE IT FURTHER RESOLVED, that expenditure of all monies described in the preceding paragraph, and for the purposes set forth, shall be deemed approved, and the Manager and Chief Engineer deemed authorized to receive and expend the funds provided as provided by law; 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 23, 2022

ADOPTION OF RESOLUTION NO. 941, 2022, ADOPTION OF THE OPERATING AND CAPITAL IMPROVEMENT PROGRAM BUDGET FOR THE FISCAL YEAR 2022-2023 AND APPROPRIATING FUNDS THEREFOR, ADOPTED ON MAY 23, 2022			
	AYE	NO	COMMENT
BRYAN P. ANDAYA	X		
KAPUA SPROAT	X		
RAY C. SOON			ABSENT
MAX J. SWORD	X		
NA'ALEHU ANTHONY	X		
JADE T. BUTAY	X		
DAWN B. SZEWCZYK	X		

ITEM FOR INFORMATION NO. 1

“May 23, 2022

UPDATE ON
BOARD OF
WATER SUPPLY’S
RESPONSE TO
THE POTENTIAL
IMPACTS OF THE
RED HILL FUEL
CONTAMINATION

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

Subject: Update on Board of Water Supply’s Response to the Potential Impacts of the Red Hill Fuel Contamination

Ernest Lau, Manager & Chief Engineer; Erwin Kawata, Program Administrator, Water Quality Division; Barry Usagawa, Program Administrator, Water Resources Division; and Kathleen Elliott-Pahinui, Information Officer, Communications Office, will give an Update on the Board of Water Supply’s Response to the Potential Impacts of the Red Hill Fuel Contamination.

Respectfully Submitted,

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

Attachment”

The foregoing was for information only.

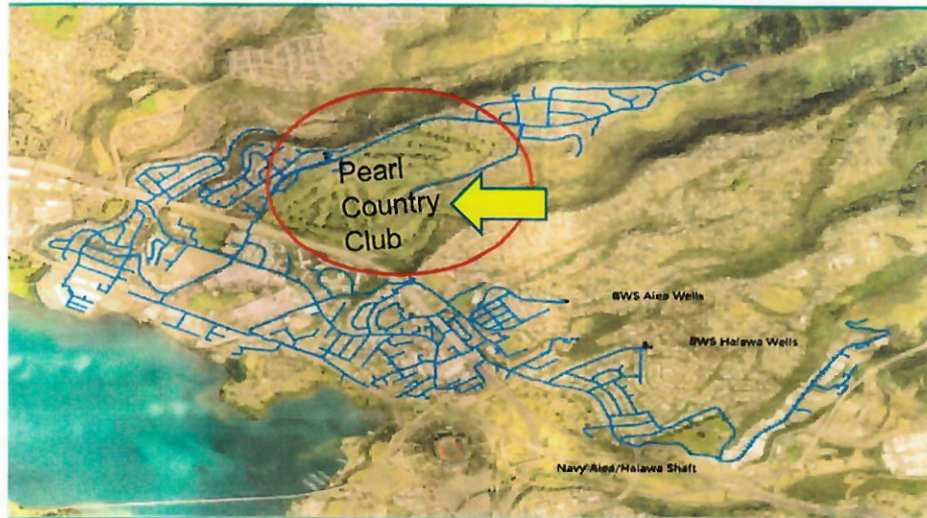
DISCUSSION:

Ernest Lau, Manager & Chief Engineer; Erwin Kawata, Program Administrator, Water Quality Division; Barry Usagawa, Program Administrator, Water Resources Division; and Kathleen Elliott-Pahinui, Information Officer, Communications Office, gave the report.

During Manager Lau’s presentation Board Member Sword asked where would the two approved monitoring wells be drilled.

Manager Lau replied that the approved monitor wells would be drilled between Halawa Shaft and Red Hill Bulk Fuel Storage Facility, Ewa of the Halawa Correctional Facility. The BWS is looking to track the potential fuel migration in the underground aquifer that possibly may have traveled west, and northwest across Halawa Valley. Manager Lau mentioned that the BWS has put out a bid seeking contractors to drill monitor well #8 at site H.

During Mr. Barry Usagawa's presentation when he shared a map of the Aiea and Halawa Water System, which spreads from Waimalu Stream to Iwaena Street, Chair Andaya inquired if that green area in the middle of the water system was Pearl Country Club.



Manager Lau confirmed that the green area, on the map is the Pearl Country Club. He mentioned that Pearl Country Club has its own irrigation source. Mr. Usagawa added that the BWS provides water service for the clubhouse, maintenance facility, and restrooms.

Board Member Sword asked does the Pearl Country Club share the same aquifer with the BWS.

Manager Lau confirmed that the Pearl Country Club and the BWS share the same aquifer.

Board Member Sword inquired how the BWS monitors the Pearl Country Club's water pumpage.

Manager Lau explained that the island of Oahu except for the Waianae Coast is considered to be part of the groundwater management area that is regulated by the Commission on Water Resources Management (CWRM). The CWRM implements the Hawaii State Water Code to issue water use permits and regulate the pumpage of groundwater. As a public utility regulated by the CWRM, the BWS must report its well pumpage to monitor compliance.

Mr. Usagawa completed his presentation. Manager Lau introduced Kathleen Elliott-Pahinui, Information Officer, Communications Office, to give the Board an update on the BWS conservation efforts.

Ms. Pahinui concluded her presentation and Manager Lau inquired if the Board Members had any questions.

Vice Chair Sproat expressed her concern about the Aiea and Halawa Water System, pumping 3.1 million gallons per day (mgd) when the Q95 max day demand is 4 mgd. Vice Chair Sproat asked how the chlorides are affecting the Aiea and Halawa Water System especially since this is a smaller system.

Mr. Usagawa replied that the reduction in pumping in the Waimalu aquifer due to the shut down in the BWS sources has helped in aquifer recovery, therefore, chlorides are normal.

Manager Lau introduced Erwin Kawata, Program Administrator, Water Quality Division to provide an update on the status of the groundwater contamination that was recently provided by the Department of Health (DOH) at the May 13th Fuel Tank Advisory Committee meeting.

Mr. Kawata concluded his presentation and ask if Board had any questions.

Board Member Sword commented that he watched a news report where the DOH stated that the fuel is migrating across the valley, north of the prison, and the Red Hill Shaft.

Mr. Kawata stated in November the DOH determined that fuel contamination was detected. He explained that in the contested case it was proven that there have been 72 releases from Red Hill Shaft in the past 80 years that a total volume of 180,000 gallons of fuel which are likely captured under the tanks and in the unsaturated rocks. The United States (U.S.) Navy indicated that there are geologic features in the subsurface that prevent the contaminated water to migrate. The U.S. Navy intended to resolve the problem by using Halawa Shaft as a capture zone, capture the contaminated water, and treat the water. In this situation, data shows that the contamination can move past Red Hill Shaft to the West without any pumping.

Mr. Kawata, further explained, that as of January 2022, the U.S. Navy turned on Red Hill Shaft to capture the fuel contaminated water to treat the subsurface water with activated carbon and discharged it into Halawa Stream. However, data has indicated that even with treatment the water is still contaminated. Therefore, data suggest that the contamination is moving in the groundwater which flows down the mountain to the ocean, west towards Halawa Shaft. He commented that if Halawa Shaft was turned on the contaminated water would move quicker towards Halawa Shaft.

Manager Lau commented that the maps that were presented are based on the data collected from existing monitors wells. Unfortunately, there are not enough monitor wells surrounding Halawa Valley to determine if the plume is moving further out. Manager Lau mentioned that the U.S. Environmental Protection Agency (EPA) has requested the U.S. Navy to drill additional wells in Halawa Valley.

Board Member Sword commented that with the addition of new wells the BWS would have more data.

Vice Chair Kapua Sproat commented that our water resource is the kuleana of the Board and the BWS to stay active and involved in the Red Hill Crisis because it is important today and into the future. She asked what is the plan moving forward to save our water resources.

Mr. Kawata responded that the U.S. Navy received approval to drill eight additional wells in the Red Hill and Halawa area. The ideal area to install a monitor well is within the quarry, however, the landowner has prohibited access to the area. The BWS has plans to drill a monitoring well at the BWS Site H, near the Halawa 272 Reservoir, and another monitoring well that is currently being discussed with the Hawaii State Department of Agriculture. The U.S. Navy continues to discuss the installation of additional monitor wells with the DOH and EPA but is faced with conflicting challenges.

Vice Chair Sproat expressed her concerns for the surrounding water resources that could be affected by the fuel contamination.

Mr. Kawata stated that the BWS is also concerned about the surrounding water resources. The BWS Halawa Shaft is on the northwest facing side of the Red Hill tanks, the BWS Aiea and Halawa Wells are to the west, and BWS Moanalua Wells is to the southeast.

Board Member Sword asked, what is the likelihood of the fuel contamination migrating Southeast towards Moanalua Wells.

Mr. Kawata replied that the fuel contamination could migrate towards Moanalua Wells. Unfortunately, due to the lack of monitoring wells in the area, it is hard to determine the degree of the migration. The BWS is looking into various locations within Moanalua to determine where to install an additional monitor well without interruption in the neighborhood.

Vice Chair Sproat inquired if there was any explanation for the detected high levels of Total Petroleum Hydrocarbons (TPH) Diesel and TPH Oil from August to October 2021, before the fuel spill in November 2021.

Mr. Kawata responded that the BWS has asked for information regarding the elevated TPH Diesel and TPH Oil detected before the November 2021 spill, however, the regulatory agencies may still be analyzing the information. Mr. Kawata mentioned that the BWS believes the elevated levels may be related to the May 6 release that occurred near Tanks 18 and 20 in the lower access tunnel. The BWS is still waiting for the Navy's investigative report on the May 6 incident including the one that occurred on November 20, 2021

Vice Chair Sproat expressed her concern since Red Hill Shaft recently began pumping again making it harder to visibly see the free product and determine where or what is happening in the vadose zone.

Mr. Kawata stated that the BWS has long been concerned with contamination traveling with the groundwater to other parts of the aquifer and the fuel present in the vadose zone beneath the tanks that can be a continual source of contamination to the groundwater.

Vice Chair Sproat expressed her mahalo to Mr. Kawata, Manager Lau, and the BWS for being proactive in the Red Hill crisis. She appreciates the hard work, vision, and courage that the BWS has to keep everyone safe.

Chair Andaya expressed his appreciation to the BWS for working through the many challenges that the Red Hill crisis has brought but yet continues to provide safe and dependable water.

Manager Lau expressed his gratitude for the confidence in the BWS.



UPDATE ON THE
BOARD OF WATER
SUPPLY'S RESPONSE
TO THE POTENTIAL
IMPACTS OF THE
RED HILL FUEL
CONTAMINATION

May 23, 2022

boardofwatersupply.com



OUR VISION ...

KA WAI OLA
(WATER FOR LIFE)

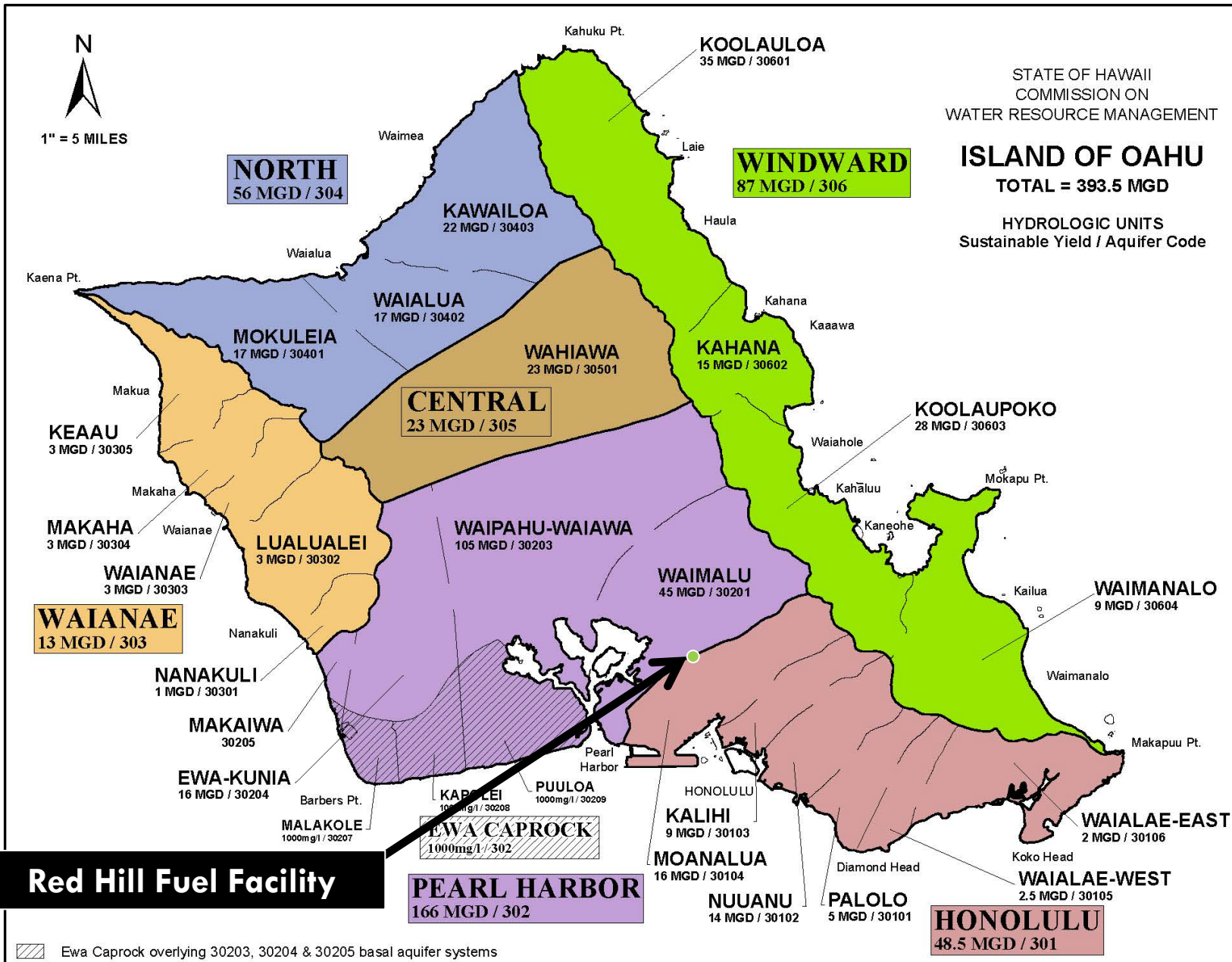
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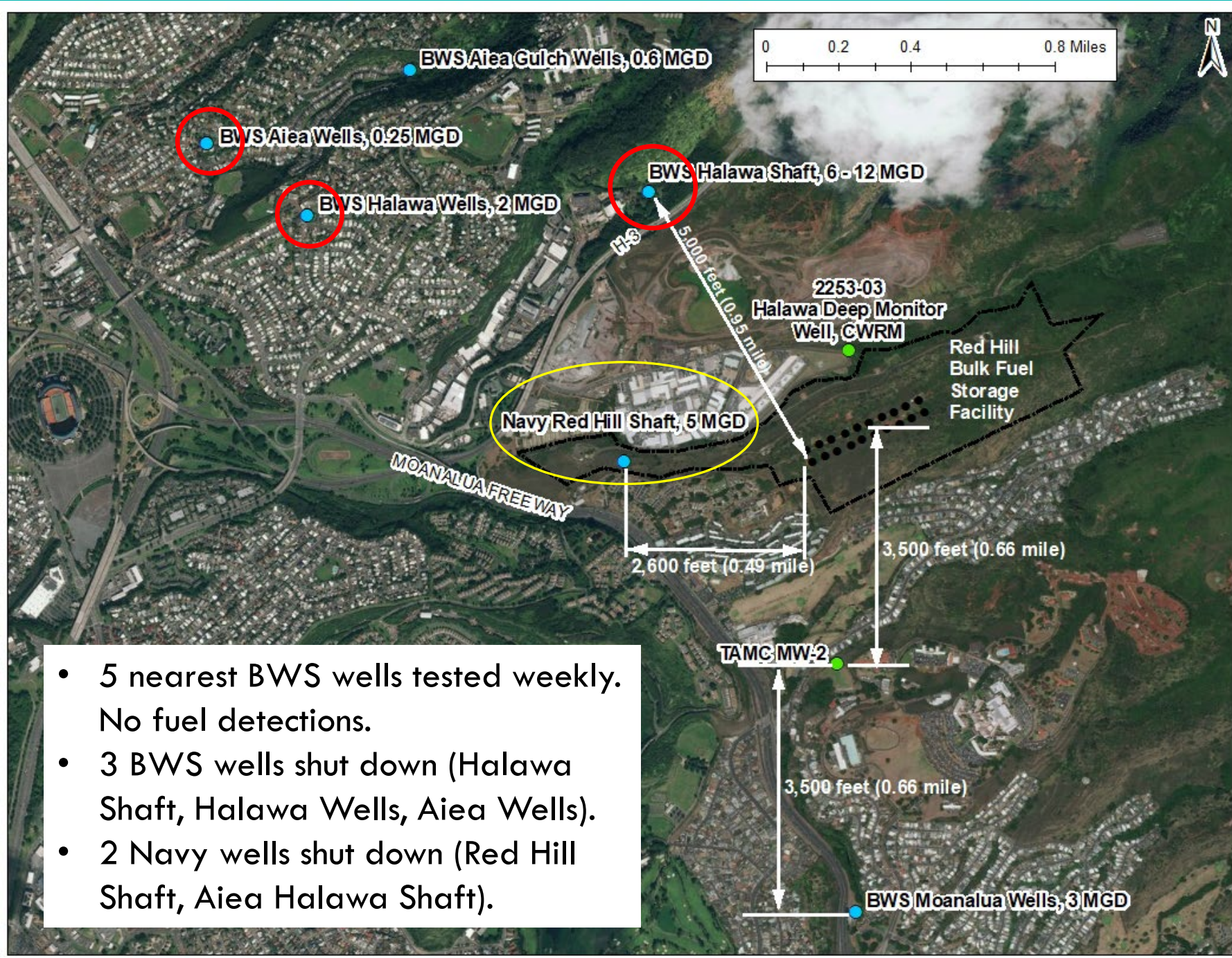


OUR MISSION ...

TO PROVIDE SAFE,
DEPENDABLE, AND
AFFORDABLE WATER
NOW AND INTO THE
FUTURE

boardofwatersupply.com





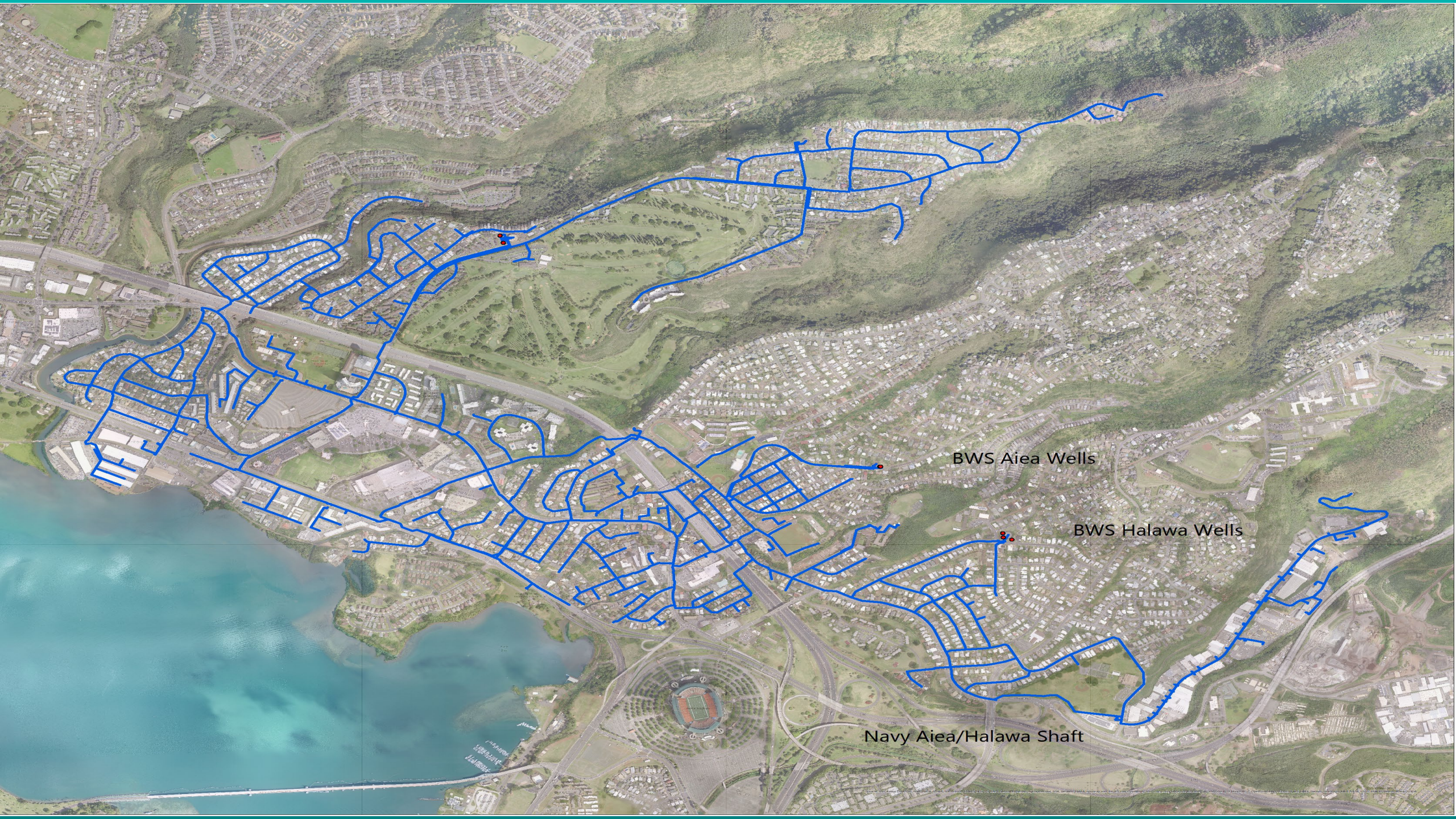
- 5 nearest BWS wells tested weekly. No fuel detections.
- 3 BWS wells shut down (Halawa Shaft, Halawa Wells, Aiea Wells).
- 2 Navy wells shut down (Red Hill Shaft, Aiea Halawa Shaft).



WE ANTICIPATE THE HONOLULU AND THE AIEA HALAWA WATER SYSTEMS WILL BE IN THE ALERT WATER SHORTAGE CONDITION
(VOLUNTARY CONSERVATION ONLY)

Water Shortage Condition	Source Capacity/Demand Trigger	Assessed Water Shortage Condition	Progressively Restrictive Conservation Response
No Water Shortage	Available pumping units meet max day demand in 16 hours , standby pumps not included		Voluntary – General Seasonal Messaging
Alert	Available pumping units meet Q_{95} max day demand in 20 hours , standby pumps not included.	Honolulu Water System Max Day Demand Q_{95} = 74 mgd Aiea Halawa Water System Max Day Demand Q_{95} = 4 mgd	Voluntary – Targeted Seasonal Messaging Requesting 10%+ Water Use Reductions
Critical	Available pumping units cannot meet Q_{95} max day demand in 22 hours , standby pumps not included		May Declare Mandatory Conservation in Progressively Restrictive Order 1) Require Targeted Water Use Reductions 2) Water Allotments, Flow Restrictors, Rate Surcharges 3) Moratorium if improvements extend more than 2 years



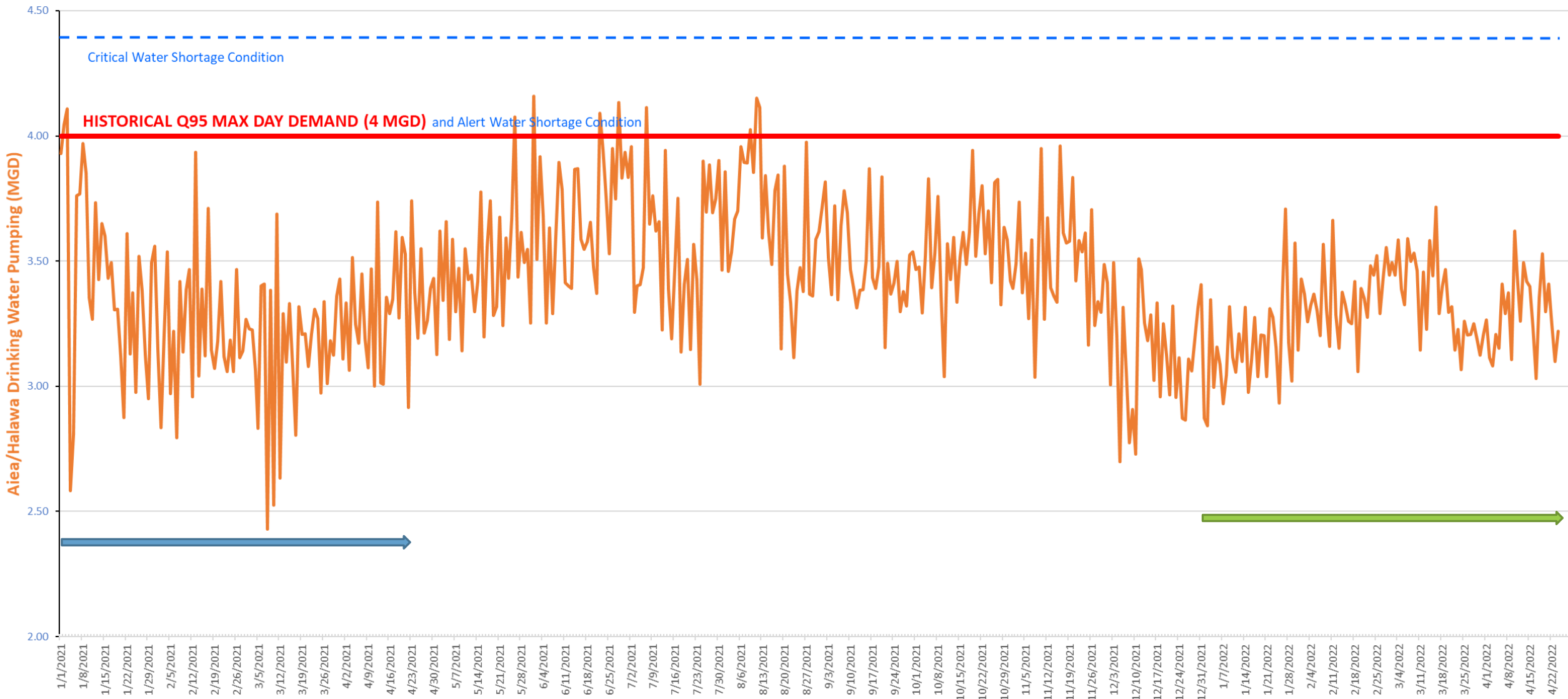


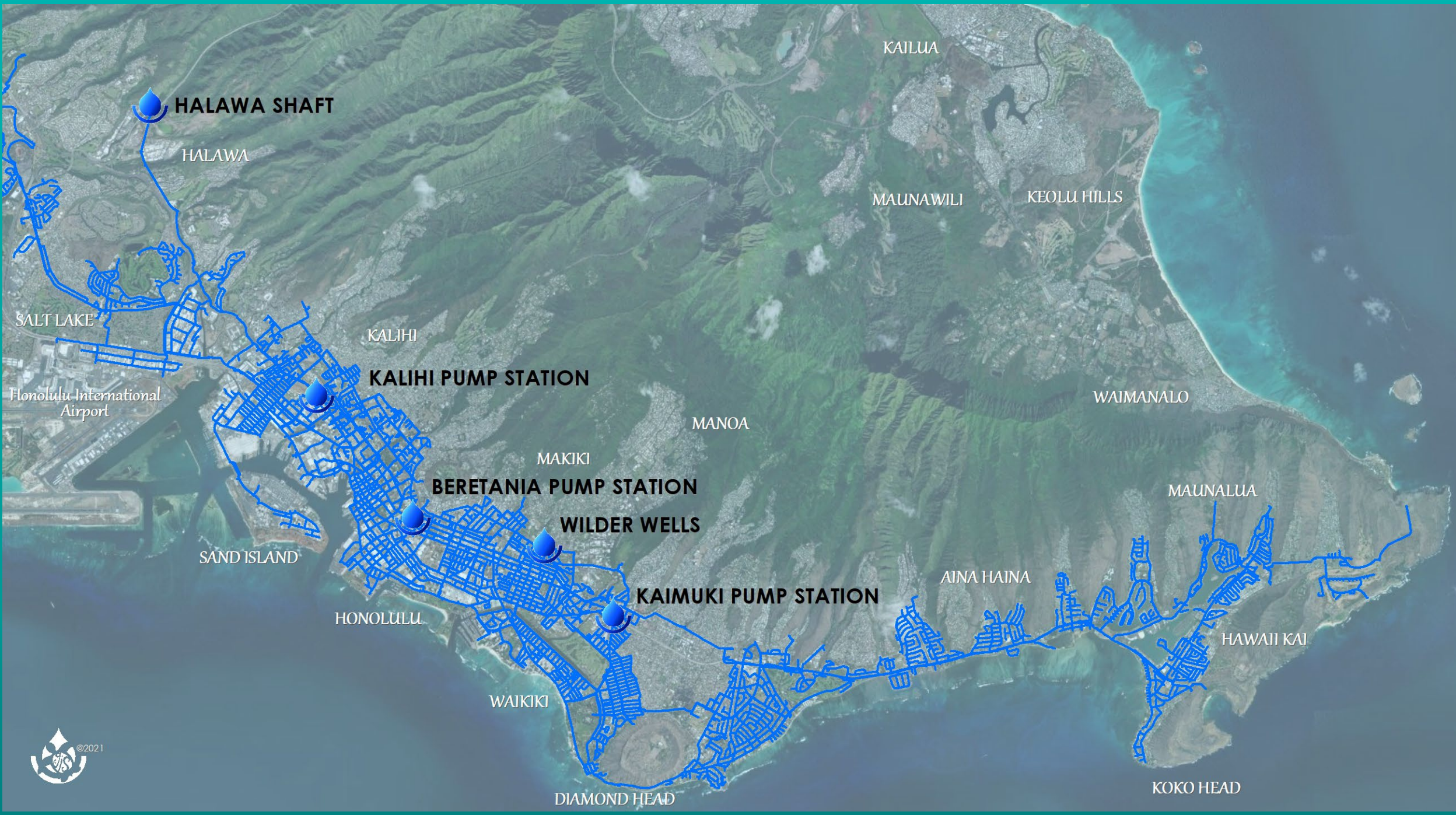
BWS Aiea Wells

BWS Halawa Wells

Navy Aiea/Halawa Shaft

AIEA HALAWA WEEKLY PUMPING - JANUARY 2021 TO PRESENT





HALAWA SHAFT

HALAWA

KAILUA

MAUNAWILI

KEOLU HILLS

SALT LAKE

KALIHI

KALIHI PUMP STATION

Honolulu International Airport

MANOA

WAIMANALO

MAKIKI

BERETANIA PUMP STATION

MAUNALUA

WILDER WELLS

SAND ISLAND

KAIMUKI PUMP STATION

AINA HAINA

HONOLULU

HAWAII KAI

WAIKIKI

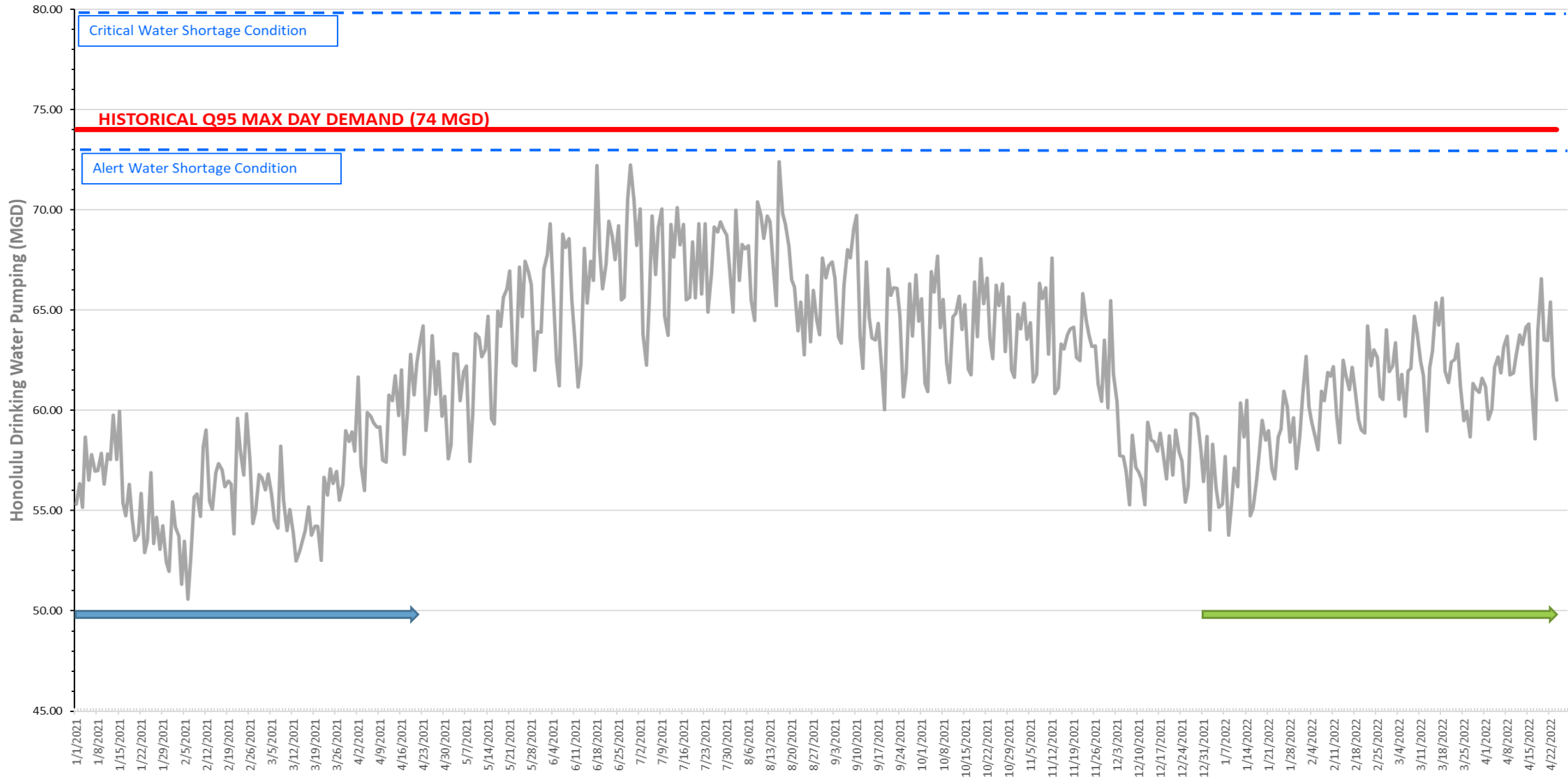
DIAMOND HEAD

KOKO HEAD



©2021

HONOLULU WEEKLY PUMPING - January 2021 to Present



HONOLULU WATER SYSTEM PROPOSED DEVELOPMENTS

Projected Demands by Type		
	# of Projects	GPD
SFD-Building Permits undergoing construction and inspection	2,084	374,050
SFD-Pending Building Permit Application	306	116,600
SFD-Signed Construction Drawings	0	0
SFD-Proposed Projects per DPP and Housing (start construction 3-5 years)	0	0
SFD-Proposed Projects per DPP and Housing (start construction after 5 years)	2	12,000
MFD-Building Permits undergoing construction and inspection	10	500
MFD-Pending Building Permit Application	41	542,815
MFD-Signed Construction Drawings	18	531,704
MFD-Proposed Projects per DPP and Housing (start construction 3-5 years)	7	815,000
MFD-Proposed Projects per DPP and Housing (start construction after 5 years)	21	2,077,914
COMM-Building Permits undergoing construction and inspection	1,193	59,650
COMM-Pending Building Permit Application	267	587,645
COMM-Signed Construction Drawings	10	289,140
COMM-Proposed Projects per DPP and Housing (start construction 3-5 years)	5	8,883
COMM-Proposed Projects per DPP and Housing (start construction after 5 years)	2	8,000
Total	3,966	5,423,901

- Single Family: 502,650 gpd

- Muti-Family: 3,967,933 gpd

- Commercial: 953,318 gpd



AIEA HALAWA WATER SYSTEM PROPOSED DEVELOPMENTS

Total Projected Demands for 277' System		
	# of Projects	GPD
Building Permits undergoing construction and inspection (Residential)	58	14,250
Building Permits undergoing construction and inspection (Commercial)	45	2,250
Pending Building Permit Application	14	7,150
Signed Construction Drawings	0	0
Proposed Projects per DPP and Housing (start construction 3-5 years)	1	28,000
Proposed Projects per DPP and Housing (start construction after 5 years)	3	987,000
Total	121	1,038,650



SUMMARY OF NEW UPCOMING DEVELOPMENT PROJECTS (BEST ESTIMATE, SUBJECT TO CHANGE)

Honolulu Water System Projects		Avg Day Demand	Max Day Demand
Permits in Review, Construction, Approved Construction Plans (0-3 yrs.)	3,929	2.5 mgd	
Proposed Projects (3-5 years)	12	0.8 mgd	
Proposed Projects (Beyond 5 years)	25	2.1 mgd	
Total	3,966	5.4 mgd	8.1 mgd

Aiea Halawa Water System Projects		Avg Day Demand	Max Day Demand
Permits under review & construction & Approved Construction Plans	117	0.024 mgd	
Proposed Projects (3-5 years)	1	0.028 mgd	
Proposed Projects (Beyond 5 years)	3	0.99 mgd	
Total	121	1.04 mgd	1.5 mgd

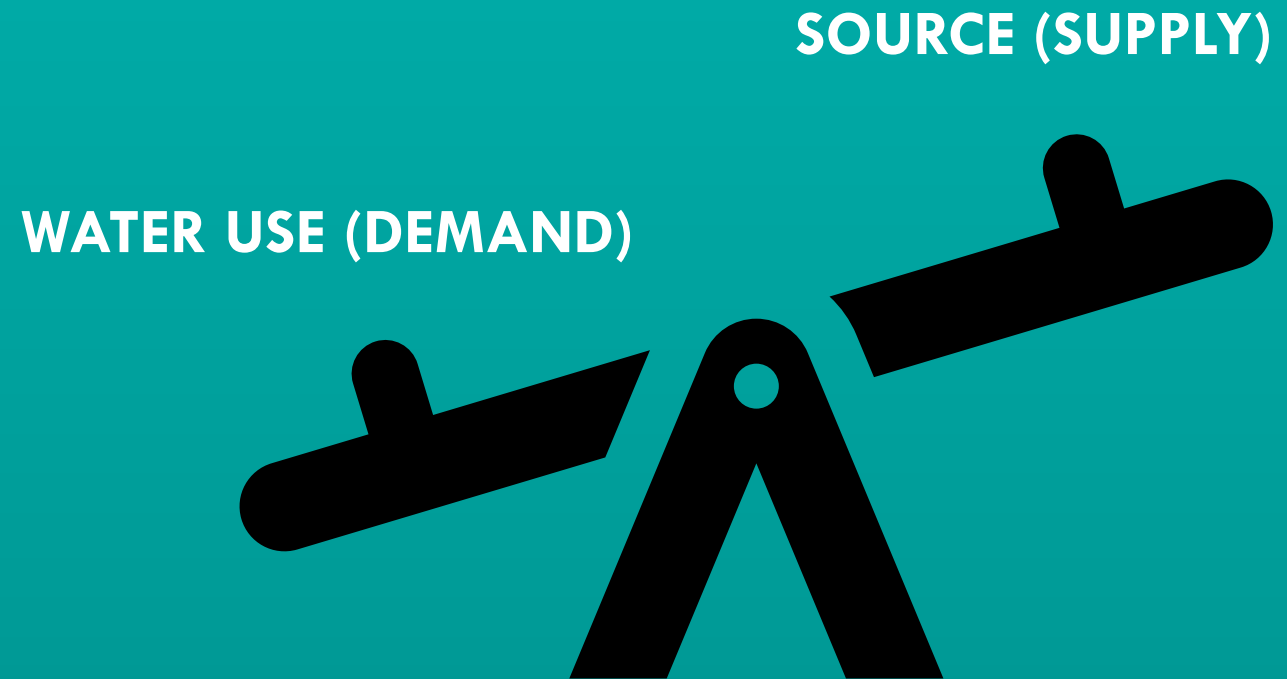


PROPOSED RED HILL RESPONSE PROJECTS

- CRITICAL/EMERGENCY IMMEDIATE RH RESPONSE PROJECTS:
 - Construct **5-6 exploratory wells** in Waimalu & possibly Moanalua to replace 3 pump stations shut down due to Red Hill fuel contamination
 - Install **4 sentinel monitoring wells** in Halawa Valley to investigate aquifer contamination
 - **Interconnect Pearl City 285' water system** with Metro 180' and Aiea-Halawa 277' water systems
 - **Test pump existing Waimalu II, Kaonohi II and Kaamilo pump 2** for yield and chloride levels (salinity)
 - **Test pump Waialae Nui Valley Well**
 - Complete **repairs of Kalihi Pump Station and Kalauao Wells**
 - Expand **water conservation** programs and outreach
 - **Adjust water system operations** (Waipio water to Honolulu, Kaamilo Wells to Aiea-Halawa)
- LONGER TERM PROJECTS
 - Ewa Shaft Well Field
 - Kunia Wells IV
 - Waikele Gulch Wells
 - Kalaeloa Seawater Desalination Facility (Design-Build, Operate and Maintain 20 yr)



A BALANCING ACT ...

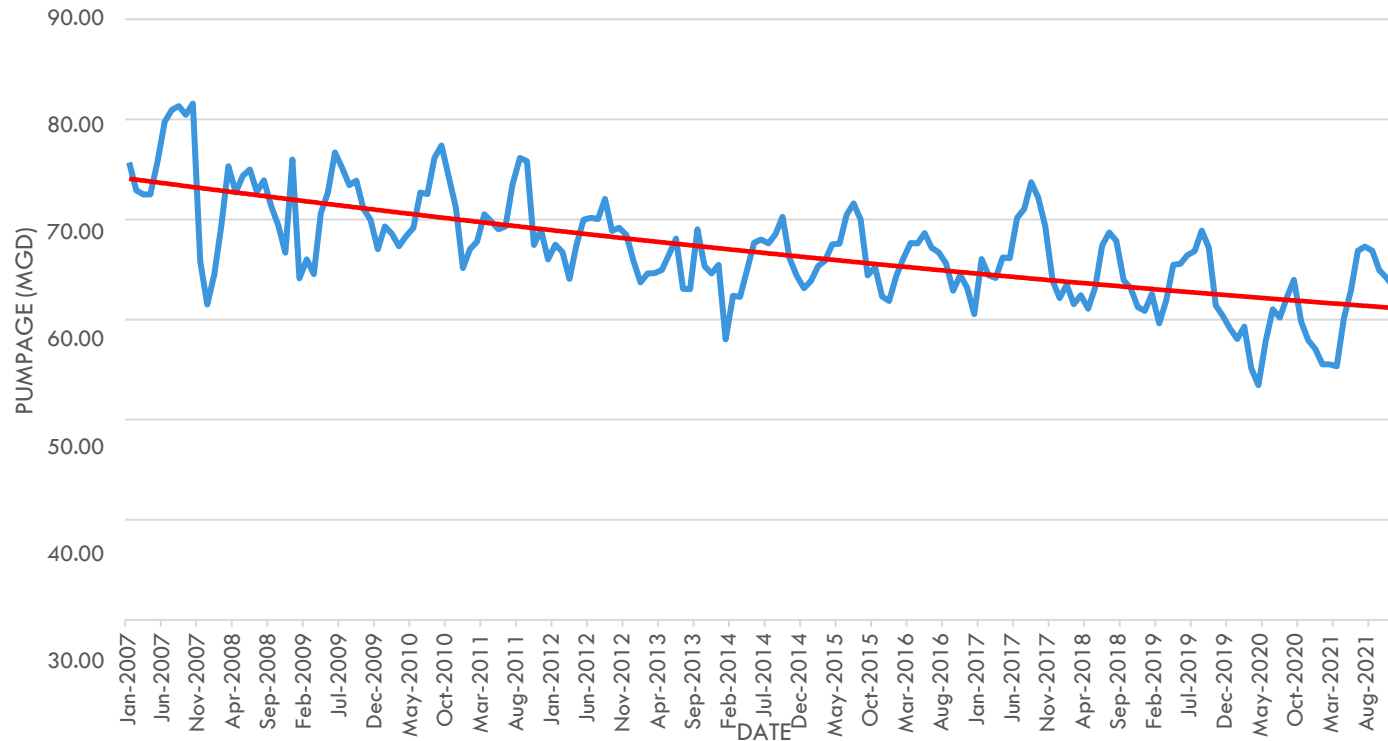


Halawa Shaft (20% of supply for the metropolitan Honolulu)

Halawa Wells and Aiea Wells (50% of the supply for the Aiea-Halawa 277' System)



HONOLULU WATER SYSTEM (LOW, HIGH) MONTHLY AVERAGE DAILY PUMPAGE (MGD)



- Water Conservation plays a significant role in a decreasing trend in Metro (Salt Lake to Hawaii Kai) monthly source production from 2007-2021. **WATER CONSERVATION WORKS!**
- Reduced aquifer withdrawals and reduced Max Day demand
- The polynomial trendline shows a slight flattening of the rate of decrease, which will plateau in the future as conservation saturation is reached
- The trendline is expected to then increase with the rate of growth in the future



WATER CONSERVATION IS CRITICALLY IMPORTANT!



TIP #1 - WATER LAWNS JUST 1-2 TIMES A WEEK



TIP #2 - DON'T WATER LAWNS BETWEEN 9 AM AND 5 PM



TIP #3 - CHECK FOR PLUMBING LEAKS



TIP #4 - INSTALL WATER-EFFICIENT FIXTURES



TIP #5 - TAKE SHORTER SHOWERS



TIP #6 - PUT A NOZZLE ON YOUR GARDEN HOSE



TIP #7 - DON'T LET THE FAUCET RUN AND RUN

www.boardofwatersupply.com

www.protectohuwater.org



WaterSmart provides participating customers with detailed information on their water use and personalized recommendations for using water more efficiently.

This information is available online or by mobile.

Overtime, customers who access the WaterSmart platform are more likely to use water efficiently.

www.honolulu.watersmart.com

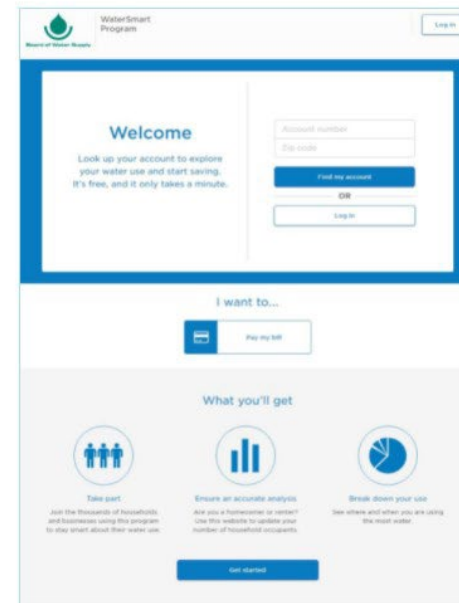


Create your WaterSmart® account today!

[JUMP TO: Contact Us](#) | [FAQs](#) | [Getting Started Video](#) | [Log Into WaterSmart® Portal](#) | [Leak Detection Tips](#)

About the WaterSmart® Program

The Board of Water Supply (BWS) mission is to provide safe, dependable and affordable water now and into the future, Ka Wai Ola—Water for Life. WaterSmart® is an initiative that would help to ensure a sustainable water supply by promoting water conservation, a key objective in the BWS Water Master Plan.



[Log into the WaterSmart® Portal](#)

BWS first introduced WaterSmart® to roughly 38,000 customers in 2017, giving them the chance to learn how their water use compares with similar neighboring households and to have free and convenient access to tools that help them have a better understand their water use. The project was co-funded by Energy Excelerator, a Hawaii-based accelerator program for energy and water startups.

Quick Links

[Frequently Asked Questions](#)

[Contact Us Form](#)

[WaterSmart® Portal Login](#)

[BWS Conservation Program](#)



WATER SENSIBLE PROGRAM

[Go to: Commercial Rebates](#) | [Food Service](#) | [Residential Rebates](#) | [WaterWisdom](#) | [Program FAQs](#) |



[#WaterSensible](#) [#WaterForLife](#) [#KaWaiOla](#) [#BoardOfWaterSupply](#) [#WaterConservation](#)

The Honolulu Board of Water Supply (BWS) is working hard to preserve and protect our most essential resource – water. Through the Water Sensible program, Oahu residents and businesses will have the opportunity to save water and money. Water Sensible launched with a residential water conservation rebate program and has expanded its offerings to include the commercial sector. It has also recently launched a WaterWisdom program to help condominiums and townhome complexes improve their water conservation efforts.



For More Information:

Call (808) 237-6877

Email watersensible@honeywell.com.

[#WaterSensible](#) [#WaterForLife](#) [#KaWaiOla](#) [#BoardOfWaterSupply](#) [#WaterConservation](#)



CONSERVATION INITIATIVES

- Hawaii News Now Water Wisdom Wednesdays
- Waiwai E-newsletter
- www.protectohuwater.org website
- Social Media
- Large Condo Program
- Water Audits (e.g., restaurants, hotels)
- Hotel Partnership
- Hawaii Community Foundation – Fresh Water Council
- Op/Eds
- Radio PSAs



CONSERVATION OUTREACH

- Hawaii Tourism Authority
- Hawaii Lodging & Tourism Assn
- Hawaii Hotel Alliance
- Hawaii Acute Care Assn
- NAIOP
- General Contractors Assn
- Developers
- Hospitals
- Shopping Centers
- State Agencies
- City Agencies
- University of Hawaii
- Large Condominiums
- Golf Courses
- Neighborhood Boards
- Community Groups
- Letters to top 600 water users in affected water systems
- Pilot hotel program
- Events





MAHALO!

THERE IS NO
SUBSTITUTE FOR PURE
WATER!

boardofwatersupply.com



DEPARTMENT OF
HEALTH PRESENTATION
AT MAY 13, 2022 FUEL
TANK ADVISORY
COMMITTEE (FTAC)
MEETING

Erwin Kawata

May 23, 2022

boardofwatersupply.com

<u>AGENDA</u>			
FUEL TANK ADVISORY COMMITTEE FRIDAY, MAY 13, 2022 9:00 A.M. to 12:00 P.M. (HST)			
No.	Item	Presenter	Time
1	Opening Remarks	Kathleen Ho, Chair	9:00
2	Review of Fuel Tank Advisory Committee (FTAC) Duties Introduction of Members		9:05
3	Meeting Agenda & Format Rules of Engagement	Keith Mattson, Facilitator	9:10
4	Background & Response to November 2021 Fuel Release		9:15
	Drinking Water Emergency, Public Health Advisory and Long-Term Monitoring Plan	DOH Representative	
5	Red Hill Facility Defueling and Closure		9:30
	State Emergency Order Recap and Update	DOH Representative	
	Regulatory Oversight of Red Hill Defueling and Closure	DOH Representative	
6	Environmental Remediation / Groundwater Protection		9:45
	Groundwater Aquifer Contamination Status	DOH Representative	
	Red Hill Shaft Discharge Impacts on Halawa Stream	DOH Representative	
	Remediation and Restoration Action Plan (RRAP)	DOH/EPA Representatives	
	Improving Processes of Data / Information Sharing and Interpretation	DOH/EPA Representatives	

<u>AGENDA</u>			
FUEL TANK ADVISORY COMMITTEE FRIDAY, MAY 13, 2022 9:00 A.M. to 12:00 P.M. (HST)			
No.	Item	Presenter	Time
7	Navy Response		10:00
	Updates on Kuaehua Peninsula, Pacific Missile Range Facility Barking Sands, Hickam Pol Annex, and Schofield Barracks Military Reservation	Navy Representative	
	Drinking Water Emergency Response, Water System Impact, Red Hill Shaft Closure and Recovery Actions, Transition to Long-Term Monitoring	Navy Representative	
	Release Investigation Reports	Navy Representative	
	Groundwater Aquifer Contamination Status	Navy Representative	
	Plans and Schedule for Red Hill Defueling and Closure	Navy Representative	
	Status of Navy Agreements and Projects with University of Hawaii	Navy Representative	
8	FTAC Member Q&A and Discussion	Facilitator	10:30
10	Public Questions and Comments	Facilitator	11:20
11	Announcement of Next Meeting	DOH Representative	11:55
12	Adjourn	Facilitator	12:00

Red Hill Groundwater Aquifer Contamination Status

Hawai'i Department of Health
U.S. Environmental Protection Agency

Prepared for the Fuel Tank Advisory Committee Meeting
May 13, 2022



Estimated Contaminant Distributions in Groundwater over Time

- Agencies direct and monitor incoming Navy data, including field parameters, vapor, groundwater, fuel and rock/soil lab analytic results and follow trends and important indicators of aquifer impacts to inform plans to reinstate groundwater production services.
- Maps were prepared for selected time periods to illustrate changes over time:
 - Most periods include multiple sample events: the maximum value for each analyte during the time period was used to prepare the map. This presents a “where contamination has been seen” evaluation.
 - Sample results represent a mix of groundwater sampling methods
- The following time series of groundwater heat maps show the estimated maximum groundwater concentrations from existing monitoring wells over six periods for TPH diesel from year prior to May 6th through end of April, 2022.



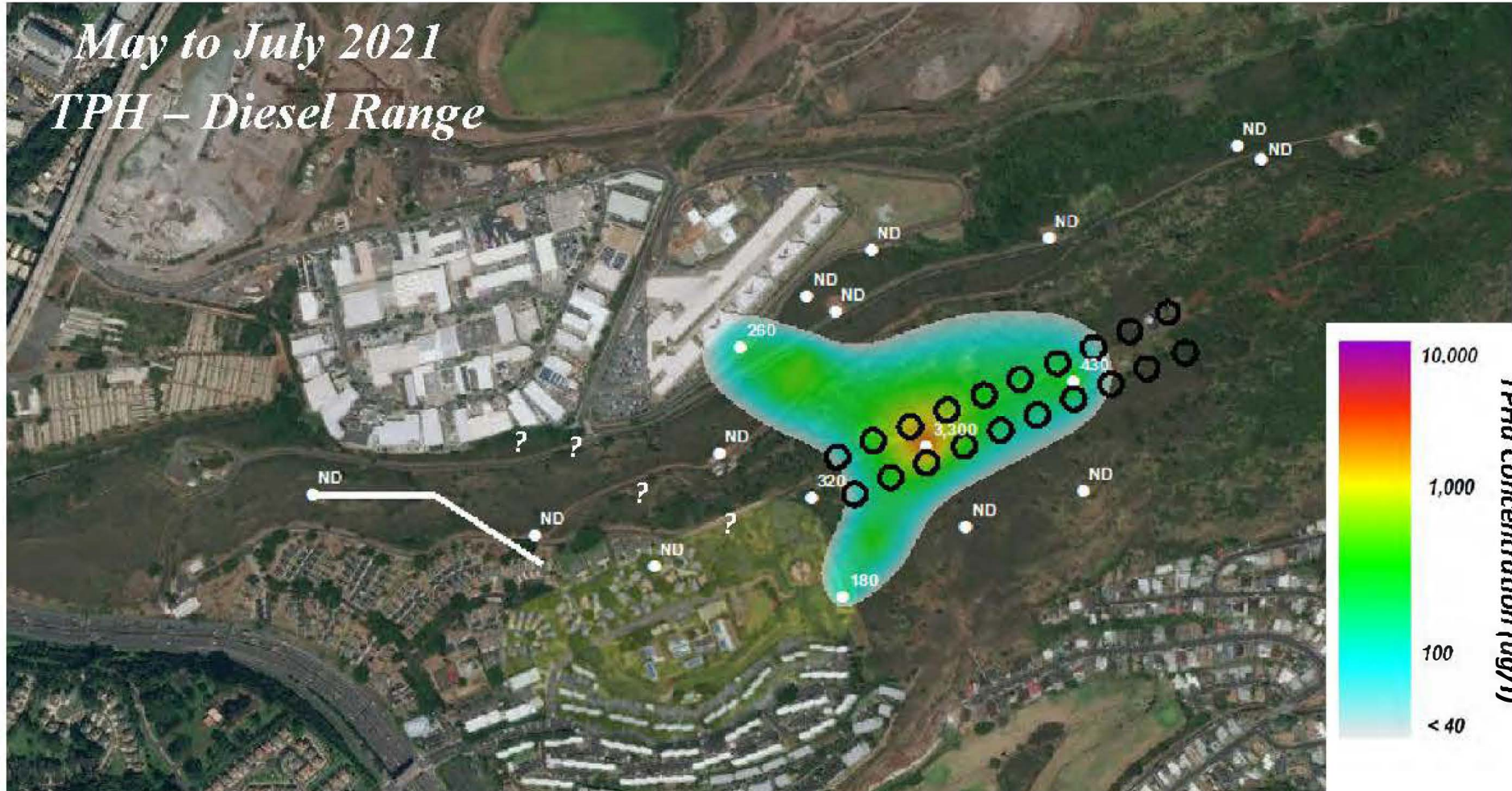
TPH-Diesel Plume Distribution over Time

Prior & following May 2021 Release(s) EAL 400 ug/l



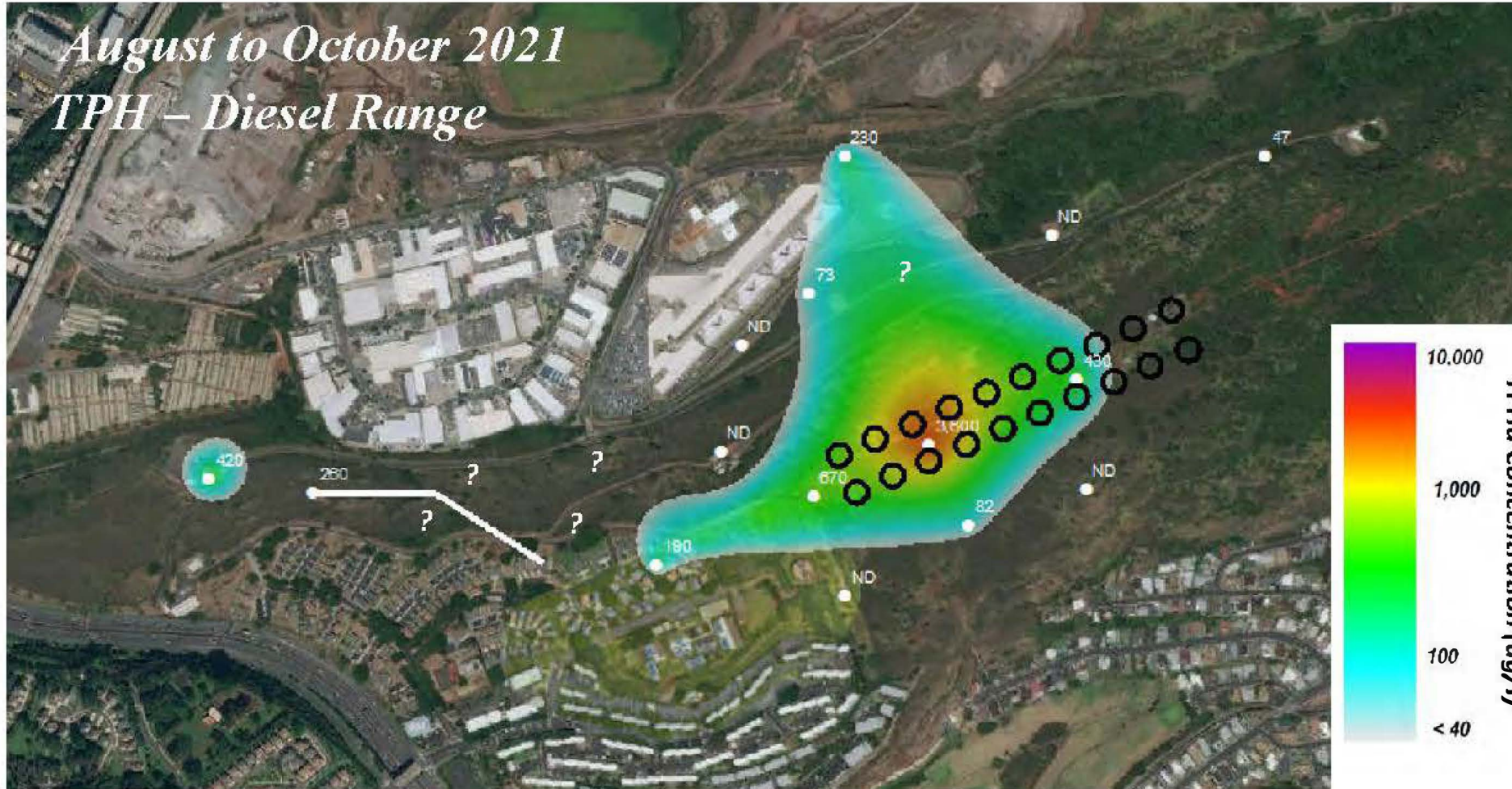
TPH-Diesel Plume Distribution over Time

May to July 2021



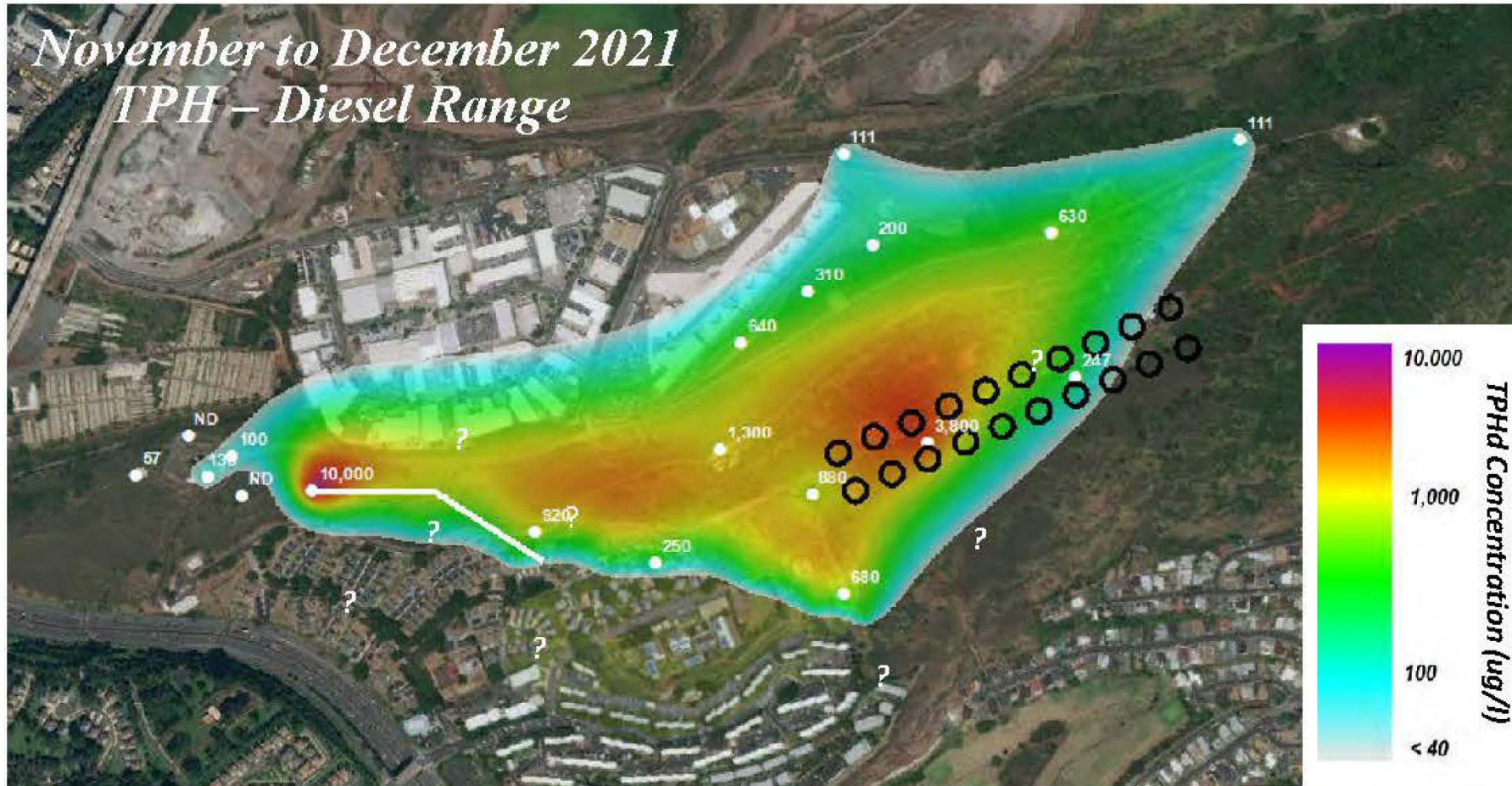
TPH-Diesel Plume Distribution over Time

August to October 2021



TPH-Diesel Plume Distribution over Time

November to December 2021



TPH-Diesel Plume Distribution over Time

February to March 2022



TPH-Oil Plume Distribution over Time

Prepared for the Fuel Tank Advisory Committee Meeting
May 13, 2022



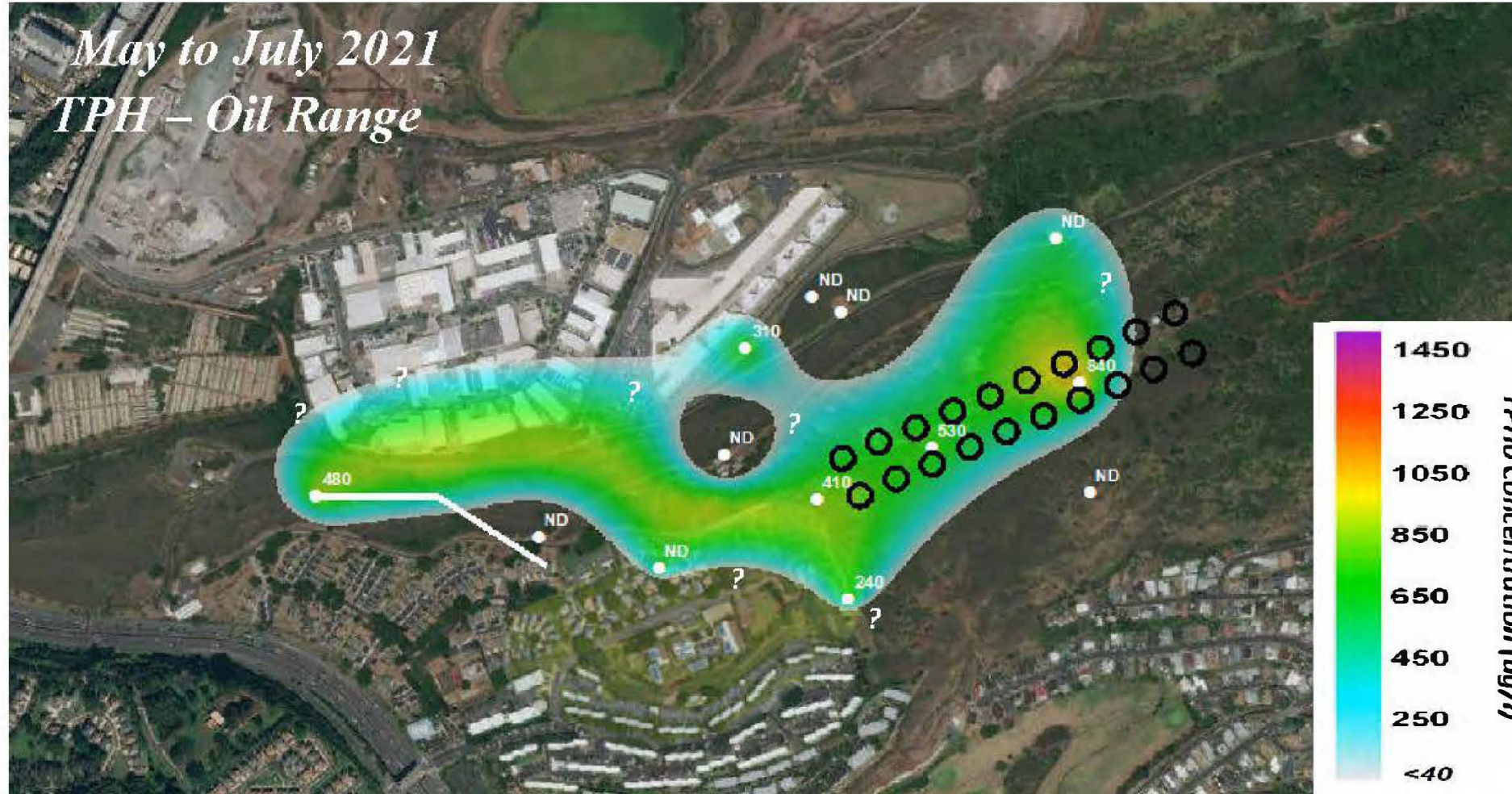
TPH-Oil Plume Distribution over Time

Prior & following May 2021 Release(s) EAL 500 ug/l



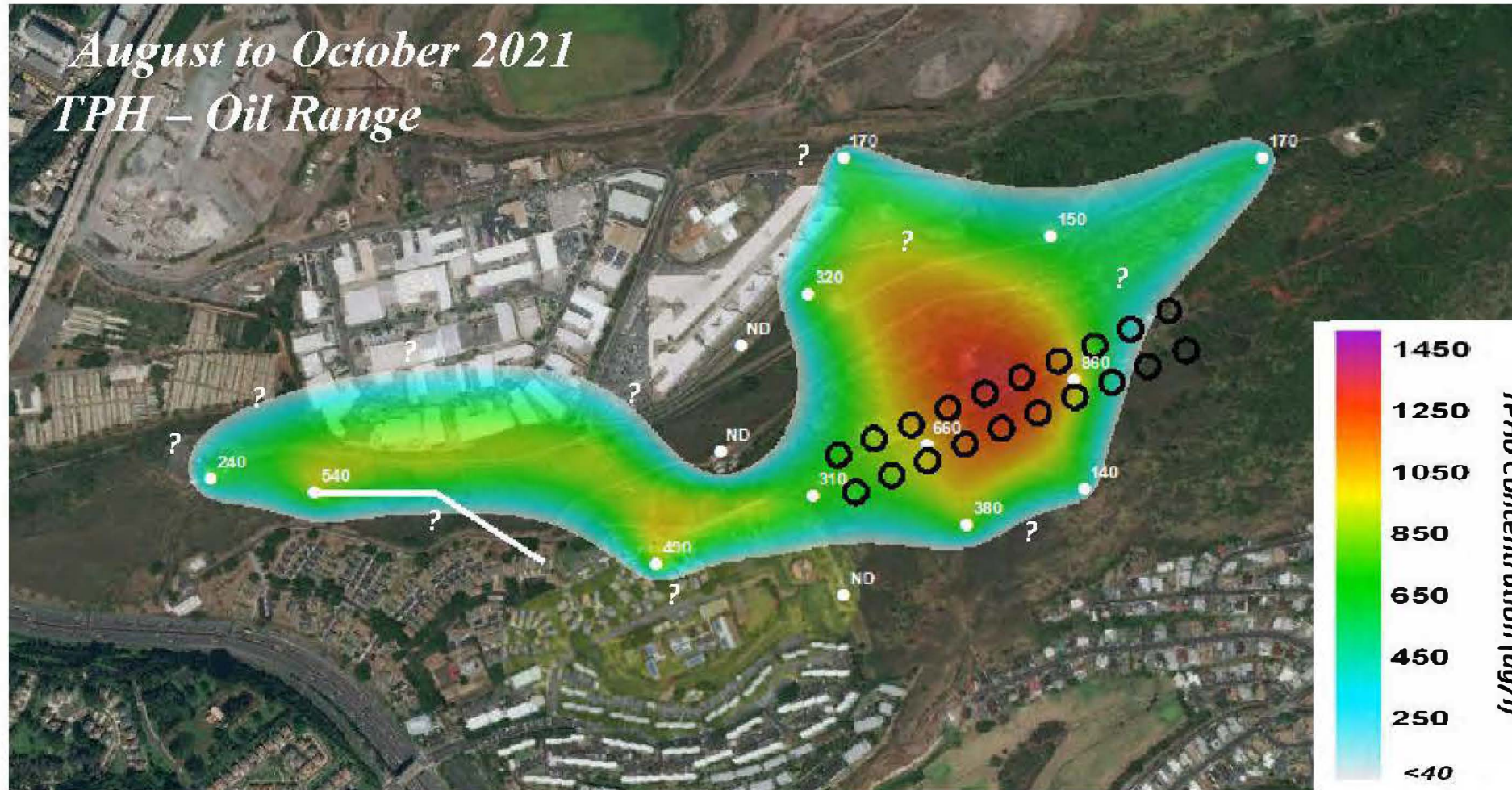
TPH-Oil Plume Distribution over Time

May to July 2021



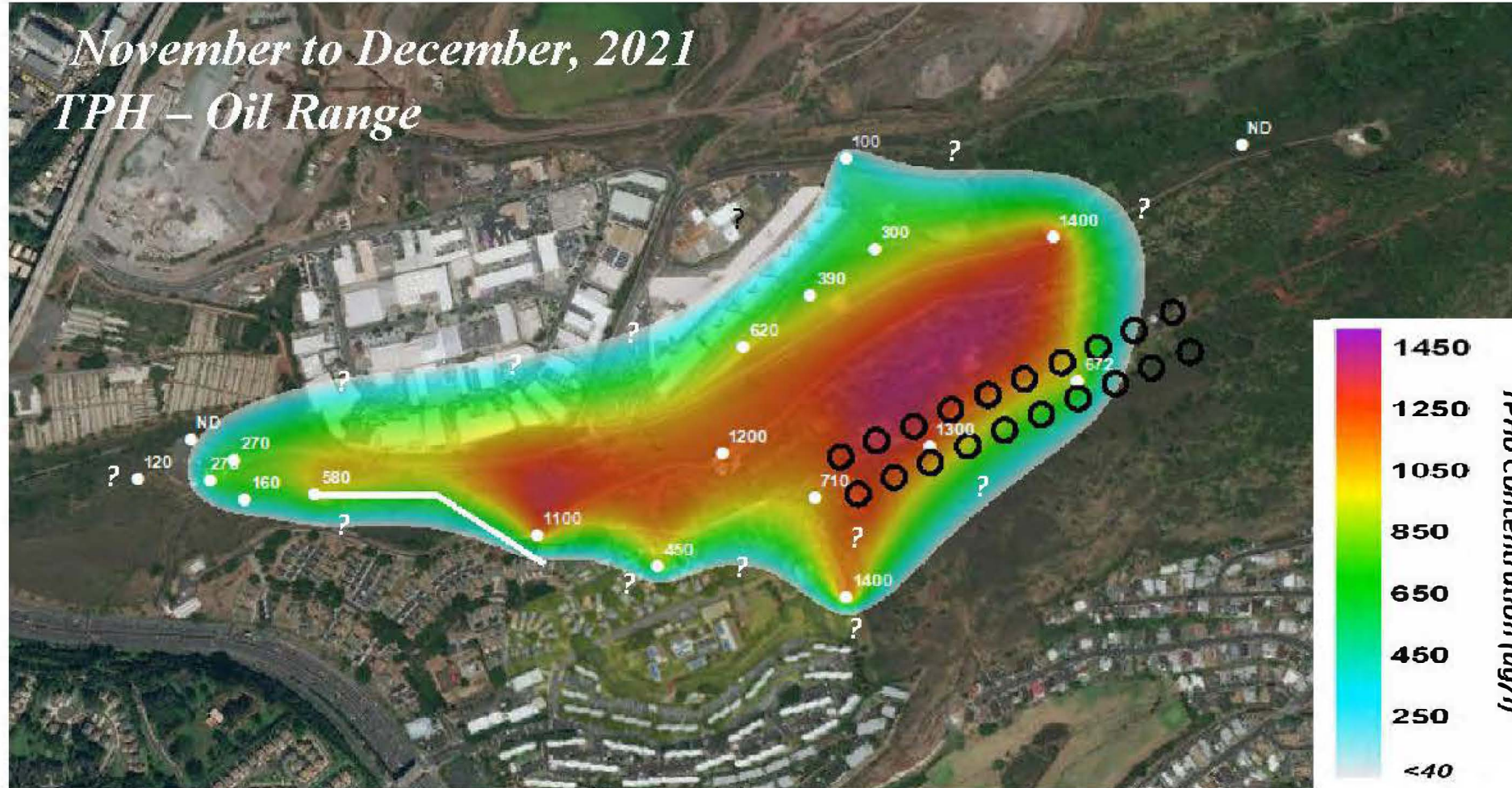
TPH-Oil Plume Distribution over Time

August to October 2021



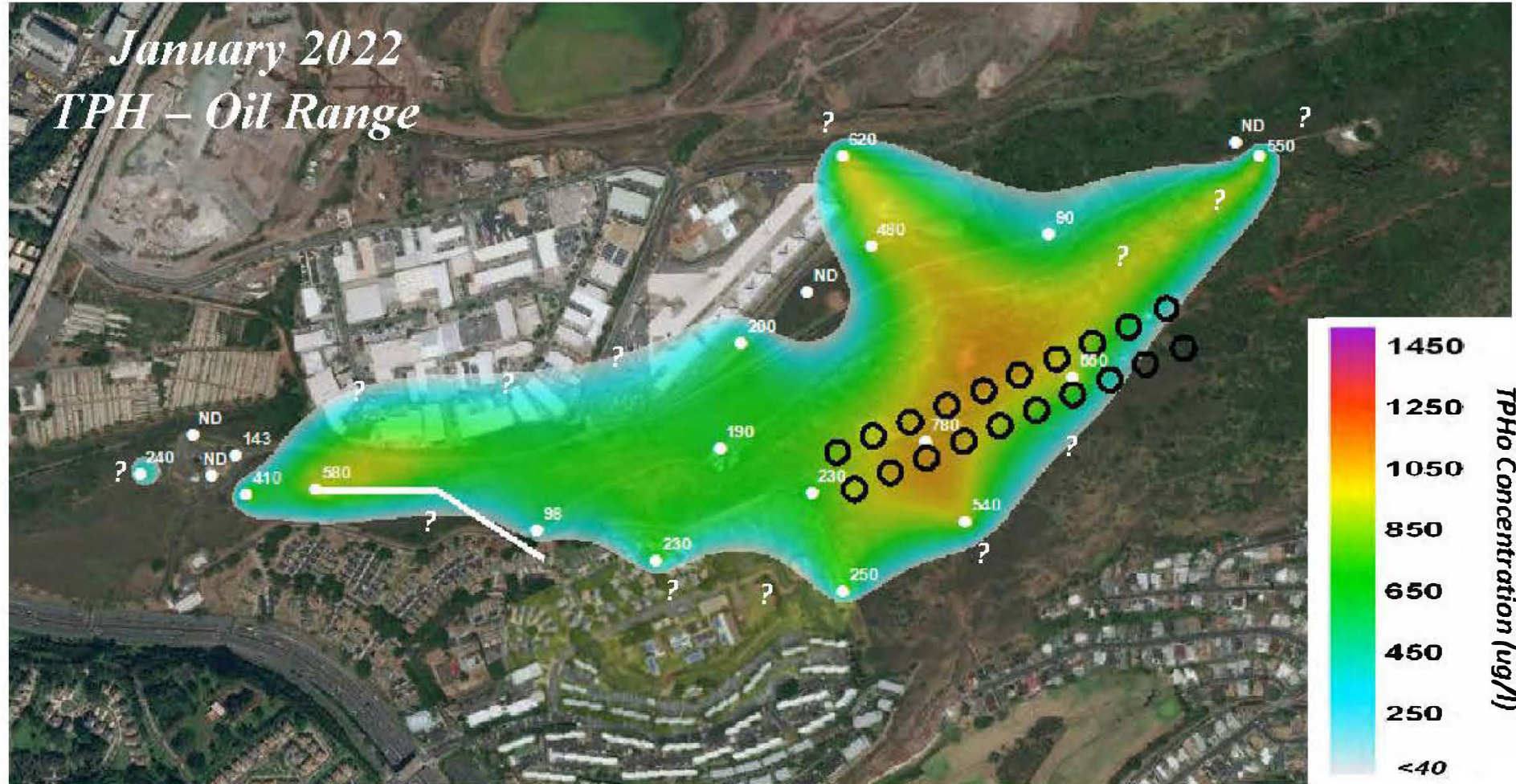
TPH-Oil Plume Distribution over Time

November to December, 2021



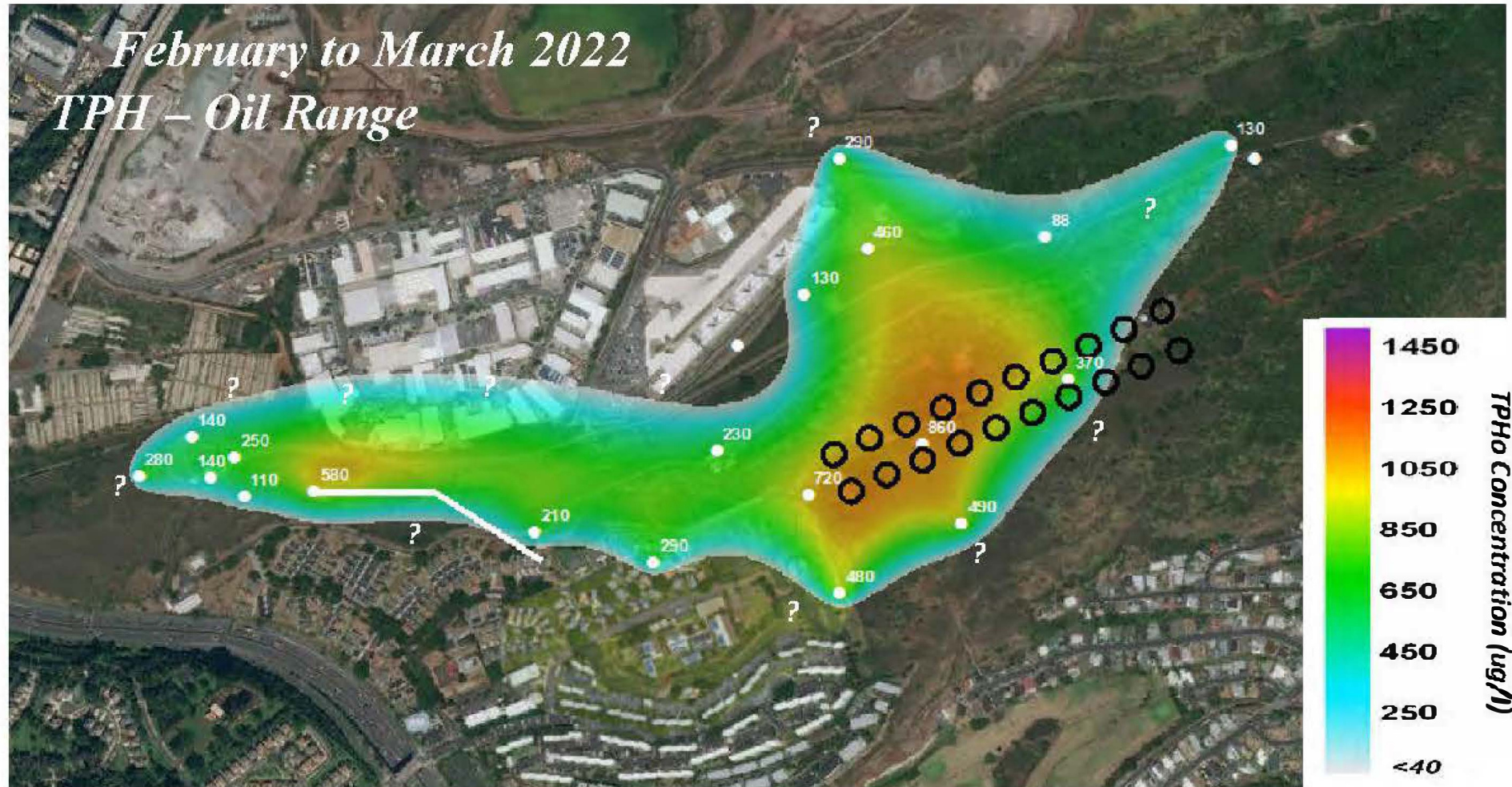
TPH-Oil Plume Distribution over Time

January 2022



TPH-Oil Plume Distribution over Time

February to March 2022



TPH-Oil Plume Distribution over Time

April 2022



QUESTIONS / DISCUSSION



ITEM FOR INFORMATION NO. 2

"May 23, 2022

CAPITAL
IMPROVEMENT
PROGRAM
QUARTERLY
UPDATE

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

Subject: Capital Improvement Program Quarterly Update

Jason Takaki, Program Administrator, Capital Projects Division, will provide an update on the Capital Improvement Program.

Respectfully Submitted,

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

Attachment"

The foregoing was for information only.

DISCUSSION:

Jason Takaki, Program Administrator, Capital Projects Division, gave the report.

Chair Andaya inquired if there is a hold on bids for any existing Fiscal Year 2022 projects.

Manager Lau responded that there are no holds on any bids for Fiscal Year 2022 projects. He stated that all Fiscal Year 2022 construction projects are out for bid. Manager Lau explained that the bidding process begins with the BWS putting the construction project bid out, then awarded to a contractor. When the BWS and contractor come to a price agreement, both parties enter into a contract. The contract must be encumbered by the City Department of Budget and Fiscal Services deadline of June 15, 2022. If the construction project bid is not encumbered, the money will lapse and the construction project will be reprogrammed into a future year.

Quarterly Capital Improvement Program Status Report
 All Divisions
 as of March 31, 2022

Quarter Awarded	JUL - SEP		OCT - DEC		JAN - MAR		APR - JUN		Awarded to Date	Total Budgeted
Design Contracts Awarded (#/\$)	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	\$22,815,000.00
Construction Contracts Awarded (#/\$)	3	790,781.00	8	2,388,313.00	1	173,048.00	0	0.00	3,352,142.00	127,260,000.00
Land Purchases (#/\$)	0	0.00	0	0.00	0	0.00	0	0.00	0.00	100,000.00
Project Totals	3	\$790,781.00	8	\$2,388,313.00	1	\$173,048.00	0	\$0.00	\$3,352,142.00	\$150,175,000.00

Quarter Completed	JUL - SEP		OCT - DEC		JAN - MAR		APR - JUN		Totals
Design Contracts Completed (#/\$)	0	\$0.00	13	\$5,096,880.70	0	\$0.00	0	\$0.00	\$5,096,880.70
Construction Contracts Completed (#/\$)	0	0.00	3	2,345,245.00	1	5,111,468.00	0	0.00	7,456,713.00
Totals	0	\$0.00	16	\$7,442,125.70	1	\$5,111,468.00	0	\$0.00	\$12,553,593.70

Ongoing Projects	
Ongoing Design Projects (#)	248
Ongoing Design Projects (\$)	\$110,768,375.44
Ongoing Construction Projects (#)	165
Ongoing Construction Projects (\$)	\$364,314,196.66



Quarterly Capital Improvement Program Status Report
All Divisions

DESIGN AND CONSTRUCTION PROJECTS AWARDED - THIRD QUARTER FY 2022

Item #	Project Title	Expend Type	Budget Amount	Awarded
22-010D	Kuou Wells I Replacement of Pumping Unit	Const	\$173,048.00	\$173,048.00
	3rd Quarter totals		\$173,048.00	\$173,048.00

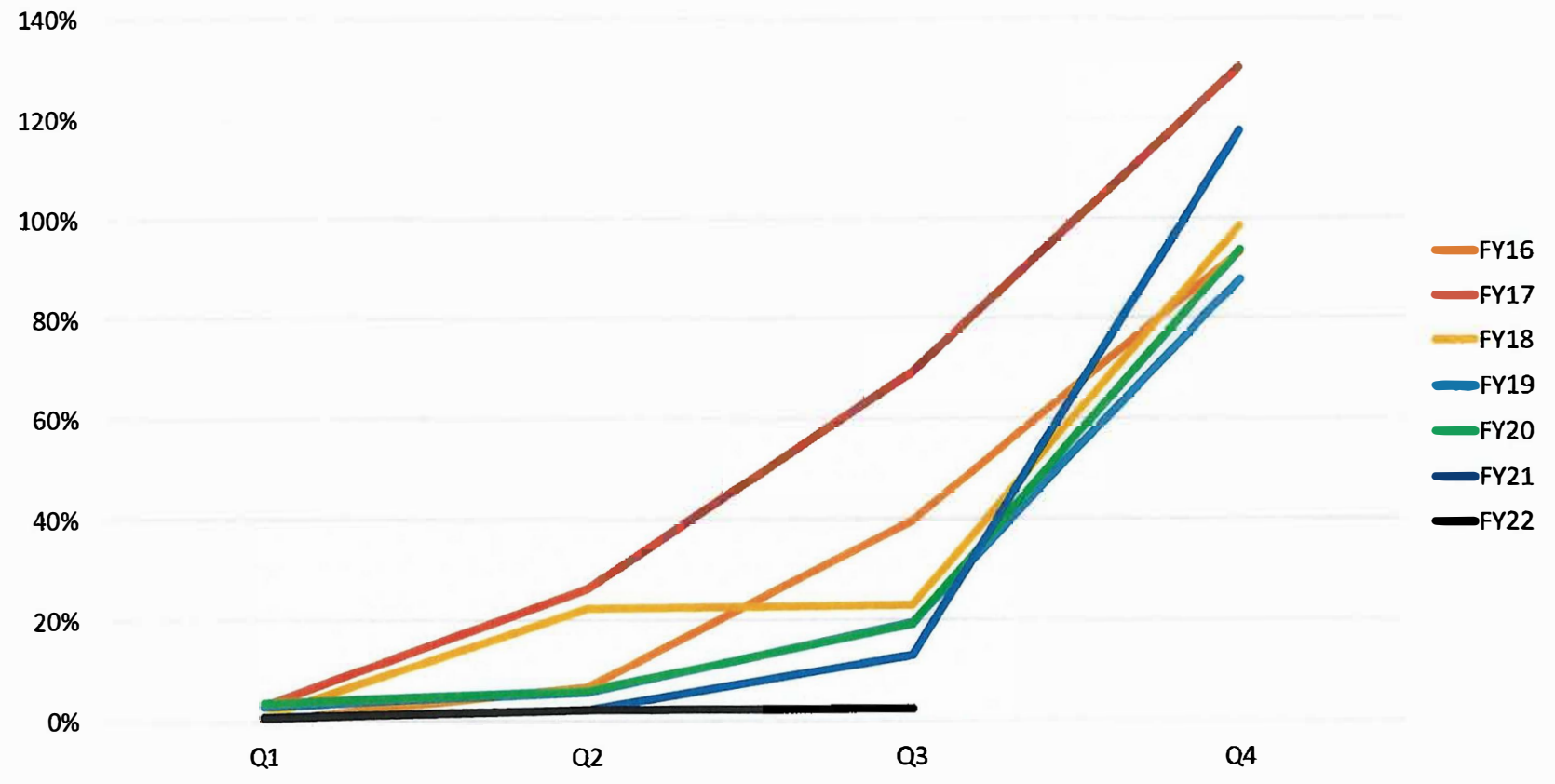
DESIGN AND CONSTRUCTION PROJECTS COMPLETED - THIRD QUARTER FY 2022

Job #	Project Title	Completion Date	Contract Amount
21-023A	Lanikai Water System Improvements, Part II	3/4/2022	\$5,111,468.00
	3rd Quarter totals		\$5,111,468.00





Cummulative % Budget execution by quarter



ITEM FOR INFORMATION NO. 3

"May 23, 2022

FINANCIAL Chair and Members
UPDATE FOR THE Board of Water Supply
QUARTER ENDED City and County of Honolulu
MARCH 31, 2022 Honolulu, Hawaii 96843
Chair and Members:

Subject: Financial Update for the Quarter Ended March 31, 2022

The following Board of Water Supply's financial reports and graphs are attached:

- Budget vs Actual Revenue and Expense Totals
- Statement of Revenues, Expenses and Change in Net Assets
- Balance Sheet
- Budget vs Actual Appropriation Budget – Total BWS Summary
- Graph Representing Operating Expenditures by Category
- Graphs of Total Budgeted Operating Expenditures and Total Budgeted Operating Revenues

Respectfully Submitted,

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

Attachment"

The foregoing was for information only.

DISCUSSION: Joseph Cooper, Waterworks Controller, Finance Division, gave the report.

Before Mr. Cooper began his presentation Chair Andaya announced at 3:35 PM that Board Member Dawn Szewczyk left the Board meeting.

During Mr. Cooper's presentation, Chair Andaya asked what caused the BWS to go over its budget in the Fixed Charges & Debt Services category.

Mr. Cooper responded that the Fixed Charges & Debt Services category is over budget due to the rising cost of electricity and the timing of post-employment benefits.

Chair Andaya also inquired about the \$2.7M spent over budget for the Water Quality Division.

Mr. Kawata responded that the Water Quality Division is over budget because of the need to address the Red Hill crisis. He stated legal service was required and the need to expedite permitting and the work for new exploratory wells.

Budget vs. Actual
Revenue and Expense Totals
As of March 31, 2022

	YTD Actuals	YTD Budget	Favorable/ (Unfavorable) Variance
Revenues	192,404	188,299	4,105
Operating Expenses	(148,634)	(160,857)	12,223
Net Revenues (expenditures)	<u>43,770</u>	<u>27,442</u>	<u>16,328</u>

Board Of Water Supply
Statement of Revenues, Expenses And Change In Net Assets
As of March 31, 2022

Current Month Actual	% Revenue	Last Year Actual	% Revenue	Description	Year to Date Actual	% Revenue	Last Year to Date Actual	% Revenue	% Change
				REVENUE					
20,460,672.15	100.00	17,797,886.39	100.00	OPERATING REVENUE	188,031,804.85	100.00	180,204,614.45	100.00	4.34
20,460,672.15	100.00	17,797,886.39	100.00	REVENUE	188,031,804.85	100.00	180,204,614.45	100.00	4.34
				OPERATING EXPENSES					
3,180,806.61-	15.55	3,215,987.16-	18.07	LABOR COSTS	29,339,354.03-	15.60	30,721,802.36-	17.05	4.50-
3,894,456.95-	19.03	4,176,592.31-	23.47	SERVICES	24,139,961.66-	12.84	22,824,035.63-	12.67	5.77
412,182.54-	2.01	579,801.03-	3.26	SUPPLIES	3,772,591.30-	2.01	3,231,468.49-	1.79	16.75
3,305.74-	.02	2,648.86-	.01	EDUCATION & TRAINING	13,754.12-	.01	22,747.19-	.01	39.53-
3,121,374.15-	15.26	2,047,970.86-	11.51	UTILITIES	17,969,702.85-	9.56	14,600,854.72-	8.10	23.07
174,736.31-	.85	126,486.16-	.71	REPAIR AND MAINTENANCE	1,733,527.29-	.92	1,859,485.33-	1.03	6.77-
1,911,749.53-	9.34	1,794,715.78-	10.08	MISC	14,660,343.49-	7.80	20,615,985.60-	11.44	28.89-
2,097,638.10-	10.25	3,460,911.42-	19.45	RETIREMENT SYSTEM CONTRIBUTIO	18,420,845.60-	9.80	18,547,059.43-	10.29	.68-
308,982.66-	1.51	77,146.84	.43	MISC EMPLOYEES' BENEFITS	1,682,460.01-	.89	127,465.58-	.07	1,219.93
15,105,232.59-	73.83	15,327,966.74-	86.12	OPERATING EXPENSES	111,732,540.35-	59.42	112,550,904.33-	62.46	.73-
2,825,643.74-	13.81	2,224,146.94-	12.50	NON OPERATING REVENUE AND EXPE	15,016,427.66-	7.99	7,346,831.61-	4.08	104.39
1,329,068.62	6.50	458,101.13	2.57	CONTRIBUTION IN AID	11,561,799.15	6.15	6,894,817.87	3.83	67.69
6,373.43-	.03			LEASE	141,937.05-	.08			
4,084,552.74-	19.96	4,318,611.93-	24.26	OTHER EXPENSES	40,619,953.34-	21.60	35,041,658.85-	19.45	15.92
232,061.73-	1.13	3,614,738.09-	20.31	Change In Net Assets	32,082,745.60	17.06	32,160,037.53	17.85	.24-

Board Of Water Supply
Balance Sheet
As of March 31, 2022

Description	Amounts			Change	
	Current	Last Month End	Last Year End	This Month	This Year
ASSETS					
CURRENT ASSETS	68,797,589.61	72,159,313.30	56,771,730.90	(3,361,723.69)	12,025,858.71
RESTRICTED ASSETS	26,513,284.95	18,057,501.95	23,656,197.45	8,455,783.00	2,857,087.50
INVESTMENTS	517,332,379.46	523,980,506.57	549,395,205.49	(6,648,127.11)	(32,062,826.03)
OTHER ASSETS	13,974,706.44	14,018,259.38	15,190,138.67	(43,552.94)	(1,215,432.23)
PROPERTY / PLANT	1,317,544,809.20	1,314,487,750.45	1,302,822,075.36	3,057,058.75	14,722,733.84
DEFERRED OUTFLOWS OF RESOURCE	14,778,103.00	14,778,103.00	14,778,103.00	-	-
DEFERRED OUTFLOWS OF RESOURCE	30,914,249.66	30,914,249.66	30,914,249.66	-	-
ASSETS	1,989,855,122.32	1,988,395,684.31	1,993,527,700.53	1,459,438.01	(3,672,578.21)
LIABILITIES					
CURRENT LIABILITIES	27,647,708.20	23,142,837.97	47,745,706.21	4,504,870.23	(20,097,998.01)
OTHER LIABILITIES	42,612,776.74	42,800,282.44	44,458,667.15	(187,505.70)	(1,845,890.41)
BONDS PAYABLE, NONCURRENT	398,655,556.44	401,485,258.71	414,022,196.70	(2,829,702.27)	(15,366,640.26)
LEASE LIABILITY	1,555,204.87	1,351,367.39		203,837.48	1,555,204.87
NET PENSION LIABILITY	132,989,070.00	132,989,070.00	132,989,070.00	-	-
NET OPEB LIABILITY	77,000,659.00	77,000,659.00	77,000,659.00	-	-
DEFERRED INFLOWS OF RESOURCES	9,150,001.00	9,150,001.00	9,150,001.00	-	-
LIABILITIES	689,610,976.25	687,919,476.51	725,366,300.06	1,691,499.74	(35,755,323.81)
NET ASSETS					
RETAINED EARNINGS	299,783,496.63	299,592,558.08	247,919,574.75	-	-
FUND BALANCE	594,633,831.66	594,633,831.66	594,633,831.66	-	-
RESERVE FOR ENCUMBRANCES	373,744,072.18	373,935,010.73	425,607,994.06	-	-
CURRENT YEAR CHANGES TO FU	32,082,745.60	32,314,807.33		(232,061.73)	32,082,745.60
NET ASSETS	1,300,244,146.07	1,300,476,207.80	1,268,161,400.47	(232,061.73)	32,082,745.60
TOTAL LIABILITIES AND NET ASSETS	1,989,855,122.32	1,988,395,684.31	1,993,527,700.53	1,459,438.01	(3,672,578.21)

Budget vs Actual Appropriation Budget - Total BWS Summary

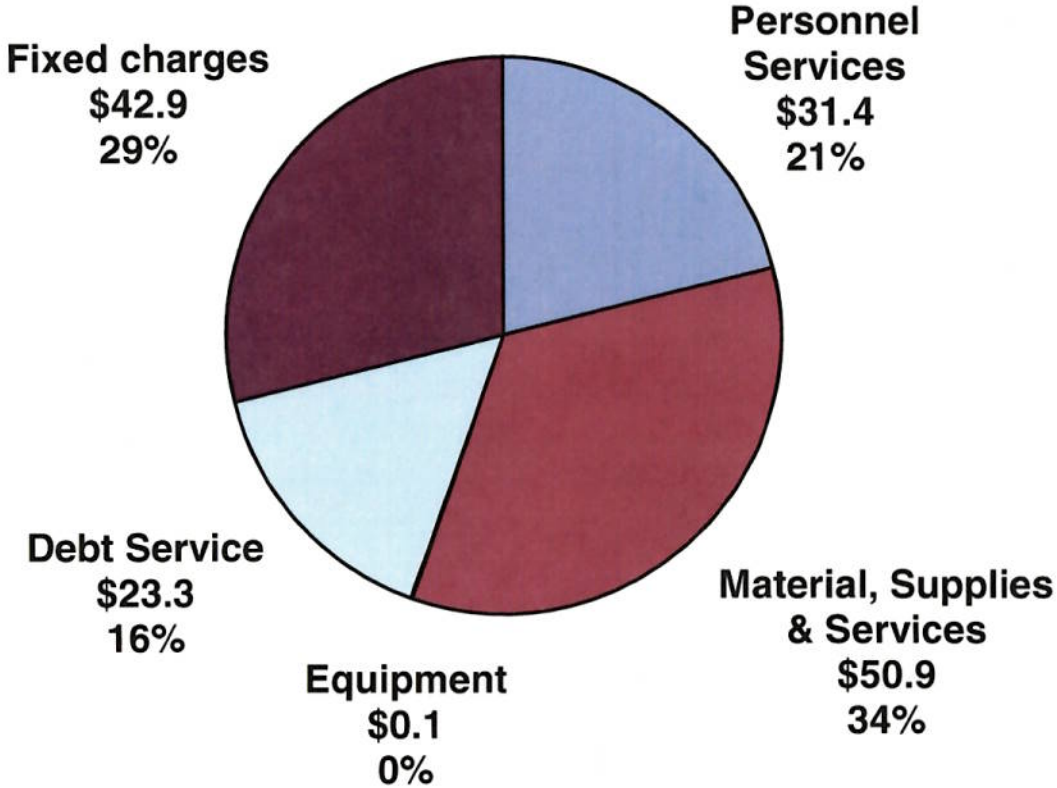
(\$000's)

OPER UNIT ALL
BUSINESS UNIT ALL

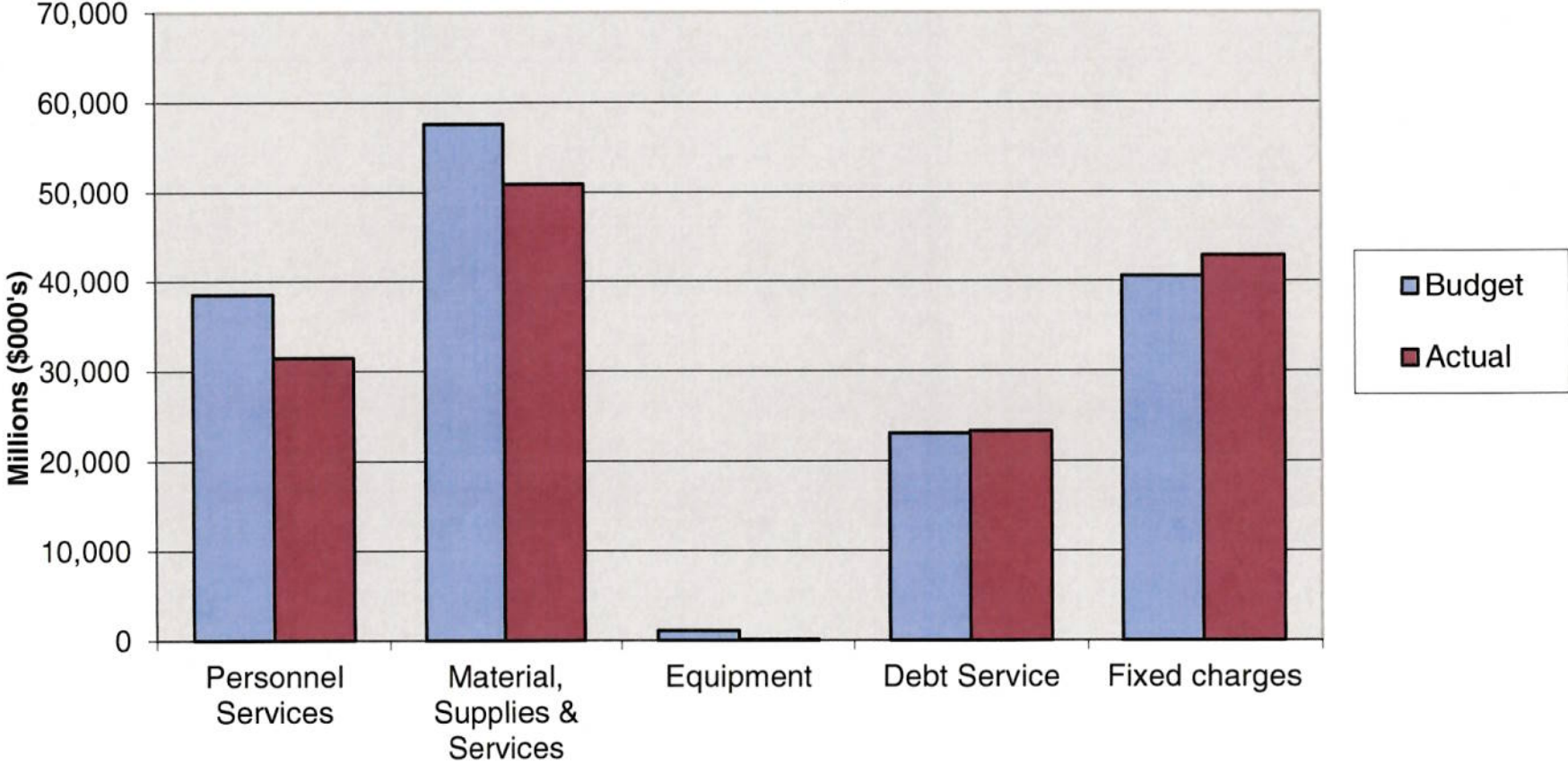
CIFIS 22820-3021
AS OF 3/31/2022

YTD-TO-DATE				FOR THE FISCAL YEAR					
YTD Actuals	YTD Budget	Avail/ (Over)	%	Object Description	Revenues/ Expend	Open Encumb	Annual Budget	Avail/ (Over)	%
<u>192,404</u>	<u>188,299</u>	<u>(4,105)</u>	<u>2.18-</u>	<u>REVENUE</u>	<u>192,404</u>		<u>248,848</u>	<u>56,444</u>	<u>22.68</u>
				OPERATING EXPENSES:					
31,440	38,533	7,093	18.41	Personnel Services	31,440		51,486	20,046	38.93
				MATERIALS AND SUPPLIES					
30,567	33,404	2,837	8.49	Services	12,432	18,135	44,086	13,519	30.67
9,946	11,000	1,054	9.58	Supplies	6,771	3,175	14,428	4,482	31.06
22	360	338	93.89	Education & Training	22		474	452	95.36
	2	2	100.00	Utilities			2	2	100.00
1,621	1,813	192	10.59	Repairs & Maint	1,304	317	2,571	950	36.95
8,746	11,004	2,258	20.52	Misc	7,855	891	13,775	5,029	36.51
114	1,115	1,001	89.78	Equipment	54	60	4,601	4,487	97.52
23,317	23,077	(240)	1.04-	Debt Service	23,317		29,588	6,271	21.19
				FIXED CHARGES:					
19,679	17,415	(2,264)	13.00-	Utilities	19,679		23,220	3,541	15.25
2,475	2,475			Case Fees	2,475		3,300	825	25.00
10,098	10,650	552	5.18	Retirement System Contribution	10,098		14,200	4,102	28.89
10,609	10,009	(600)	5.99-	Misc Employees' Benefits	10,435	174	13,411	2,802	20.89
<u>148,634</u>	<u>160,857</u>	<u>12,223</u>	<u>7.60</u>	<u>TOTAL OPERATING EXPENDITURES</u>	<u>125,882</u>	<u>22,752</u>	<u>215,142</u>	<u>66,508</u>	<u>30.91</u>
<u>43,770</u>	<u>27,442</u>	<u>(16,328)</u>		<u>NET REVENUES (EXPENDITURES)</u>	<u>66,522</u>	<u>(22,752)</u>	<u>33,706</u>	<u>(10,064)</u>	

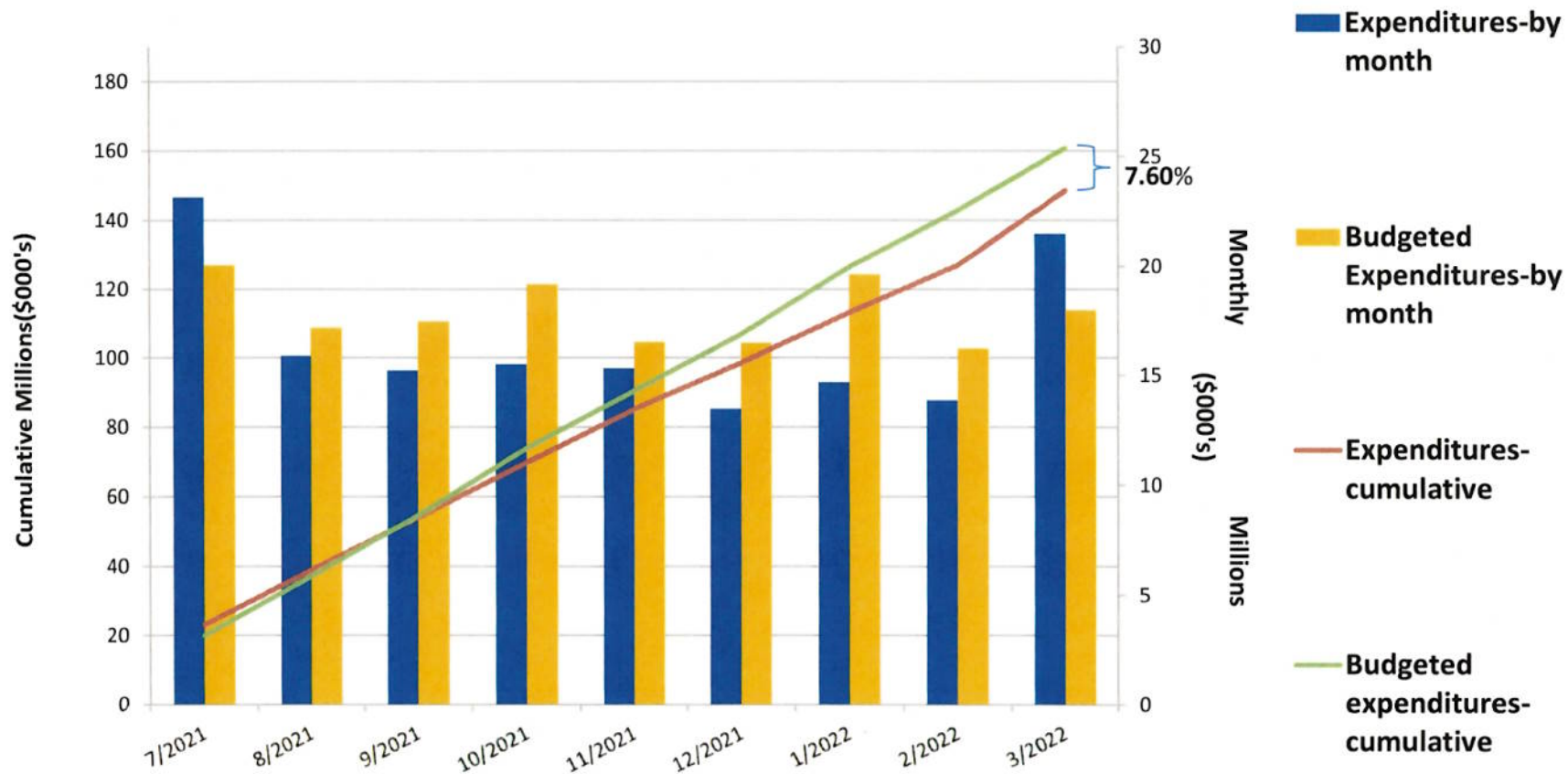
Total Operating Expenditures - \$148.6
As of March 31, 2022
(millions of dollars)



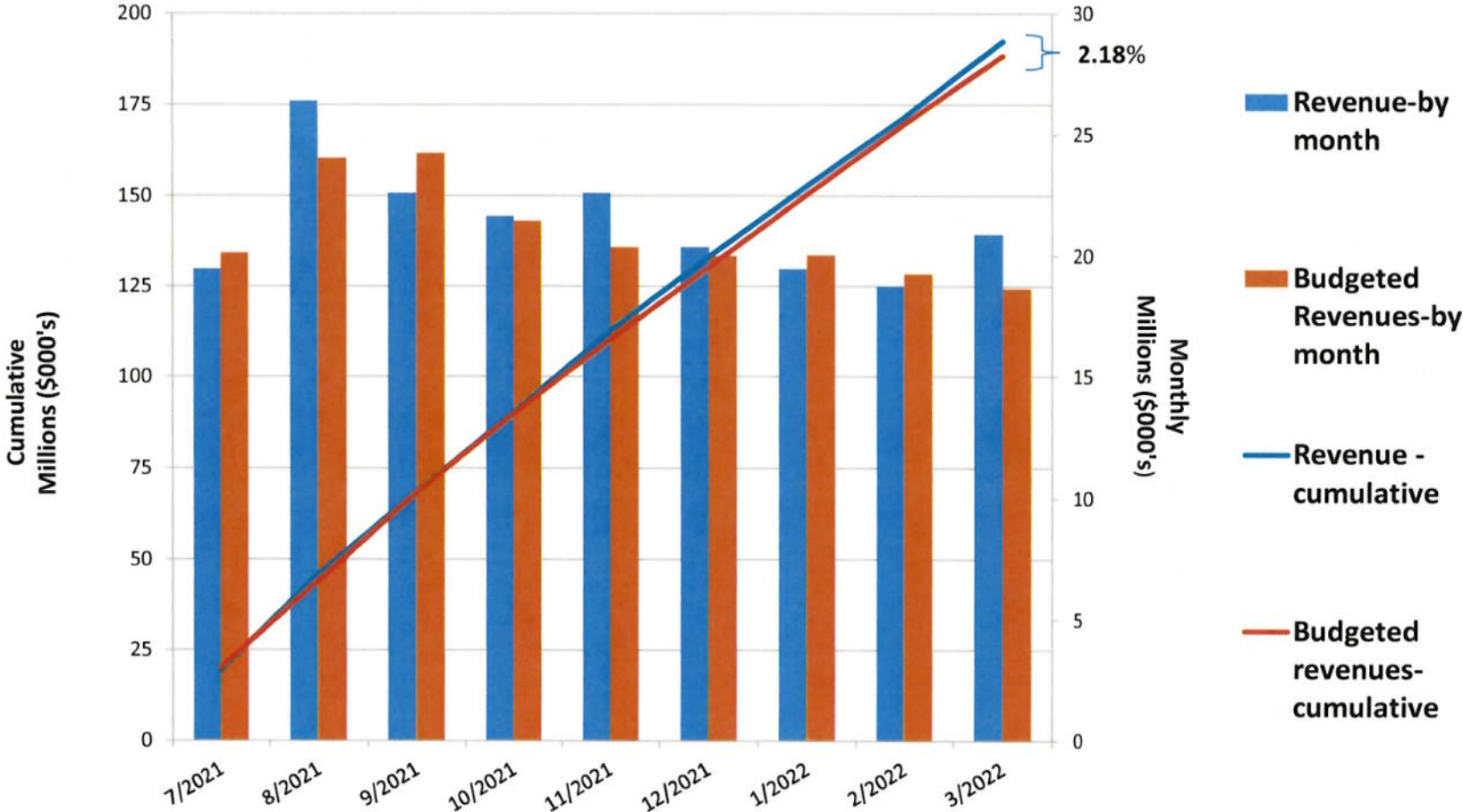
Operating Expenditures by Category (Budget vs. Actual) As of March 31, 2022

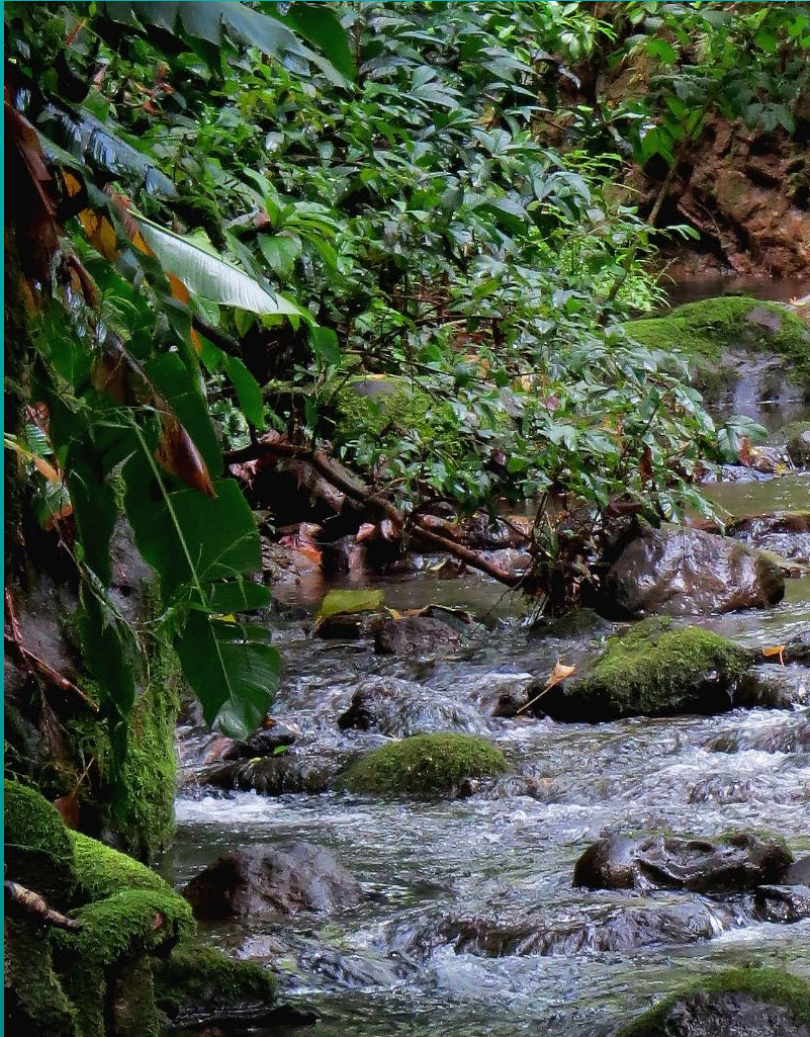


BUDGETED OPERATING EXPENDITURES FY 2022



BUDGETED OPERATING REVENUES FY 2022





FINANCIAL PERFORMANCE JULY 2021 – MARCH 2022

Joe Cooper

May 23, 2022

boardofwatersupply.com



BUDGET TO ACTUAL JULY 2021 – MARCH 2022

- Actual Revenue \$192.4 million vs.
- Budgeted Revenue \$188.3 million

- Operating costs are \$148.6 million vs.
- Budgeted costs of \$160.9 million

- Actual Net Revenue \$43.8 million vs.
- Budgeted Net Revenue \$27.4 million



COST DRIVERS

Year to Date March 2022

	Actual	Budget
	(millions)	(millions)
• Personnel	\$31	\$39
• Services/Supplies	\$41	\$44
• Repairs & Misc.	\$ 10	\$ 13
• Equipment	\$ 0.1	\$ 1.1
• Utilities	\$ 20	\$ 18



OPERATING BUDGET VS ACTUAL

FY2022 3RD QUARTER - YEAR TO DATE: JUL 21 – MAR 22

BUDGETED EXPENDITURES ARE \$160.9M VS. ACTUAL EXPENDITURES OF \$148.3M
OF THE \$12.6M VARIANCE...

Water Quality - \$2.7M Over Budget

- Professional Services (\$3.1M Over)

Fixed Charges & Debt Svc - \$2.1M Over Budget

- Electric Power – Water Distribution Fac (\$2.2M Over)
- Other Post-Employment Benefits (\$254K Over)

Field Operations - \$6.7M Under Budget

- Salaries & Wages (\$2.9M Under)
- Emergency & Contracted Road Repairs (\$1.3M Under)
- Meters (Storeroom) (\$1M Under)

Information Technology - \$2.3M Under Budget

- Software Licenses Maintenance (726K Under)
- Equipment under \$5,000 (578K Under)

Water Resources - \$1.8M Under Budget

- Other Services (\$1M Under)

Water System Operations - \$1.7M Under Budget

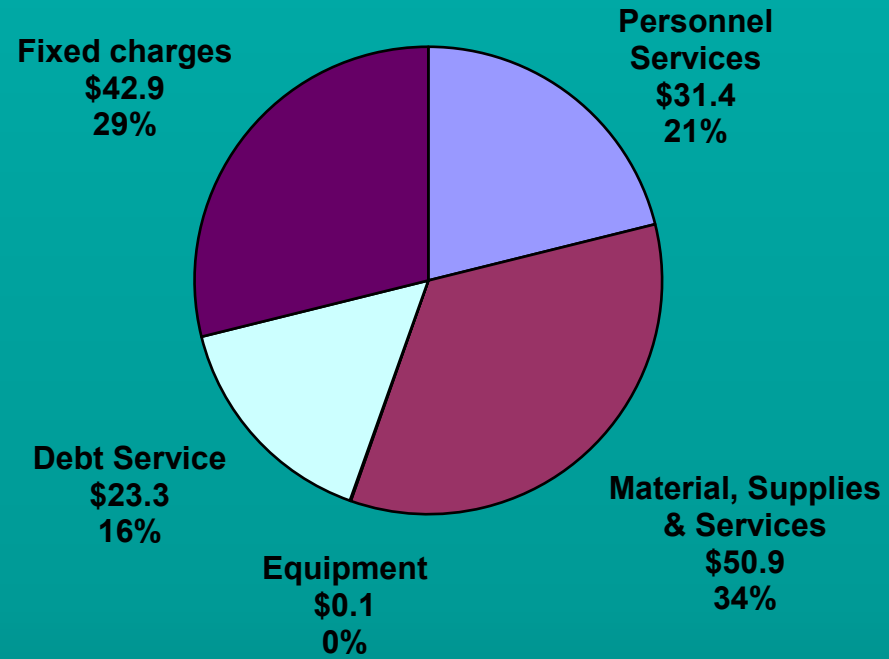
- Salaries & Wages (\$1.1M Under)
- Professional Services (\$700K Under)

Capital Projects - \$1.3M Under Budget

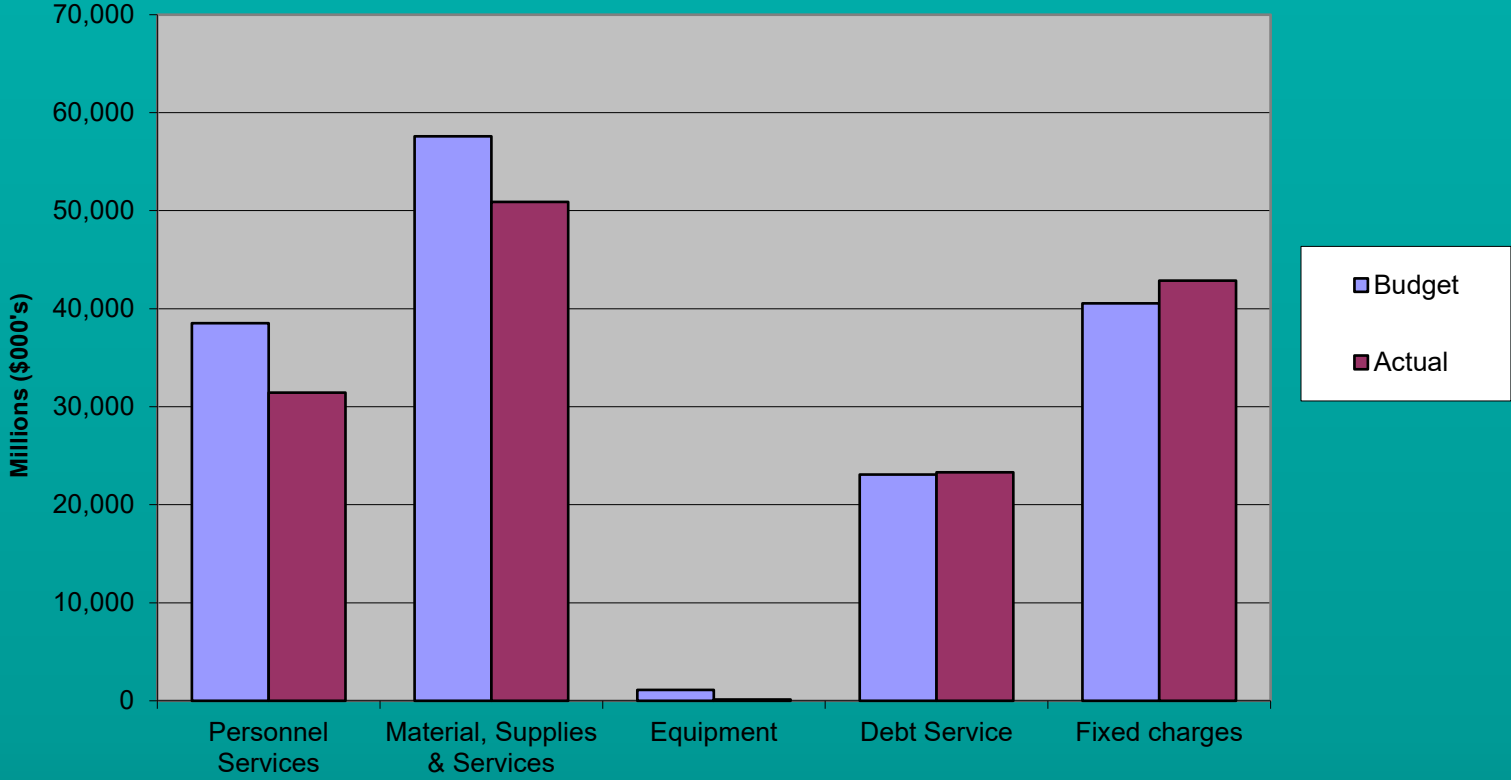
- Salaries & Wages (\$503K Under)
- Professional Services (\$253K Under)



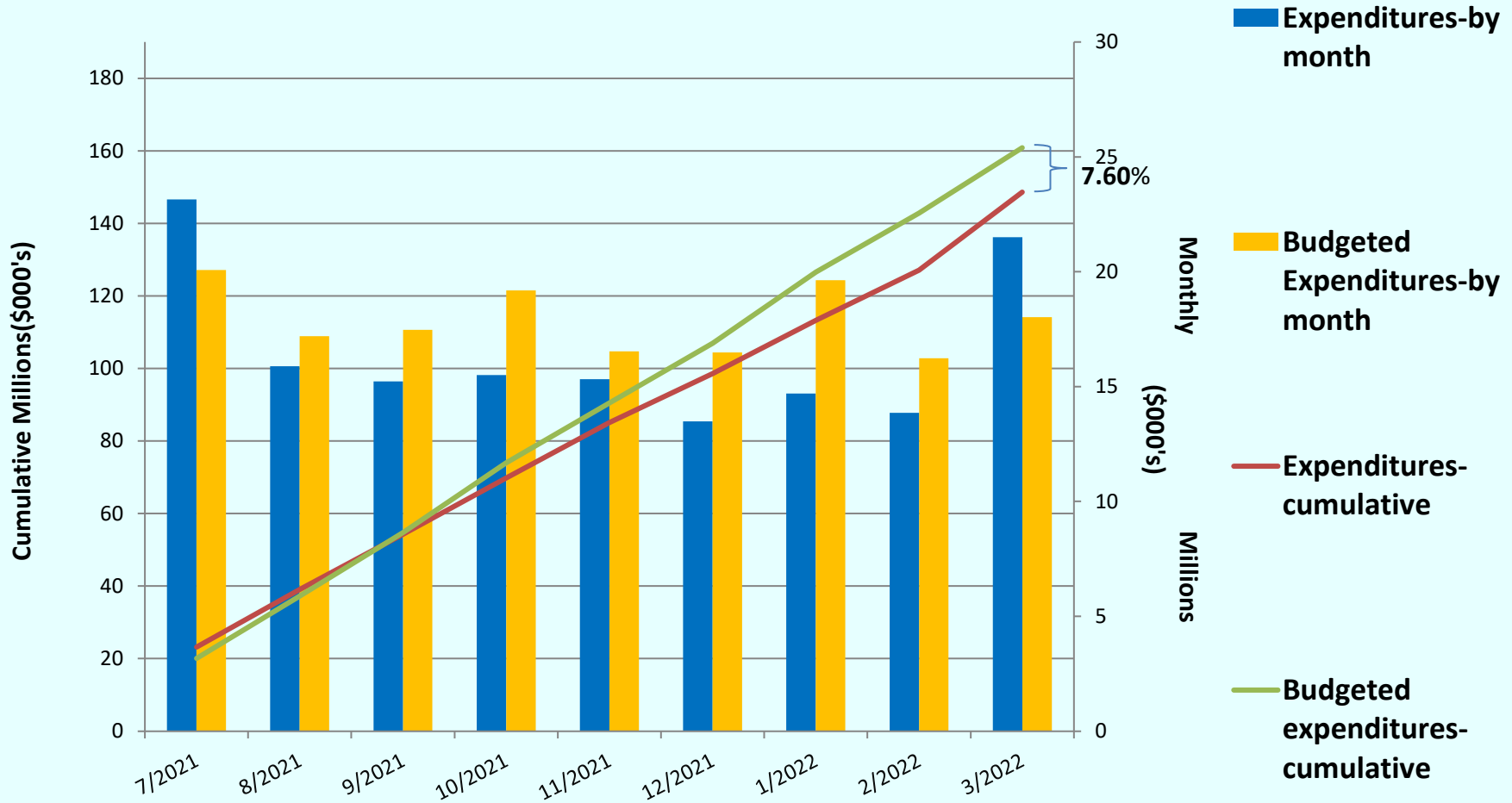
Total Operating Expenditures - \$148.6
As of March 31, 2022
(millions of dollars)



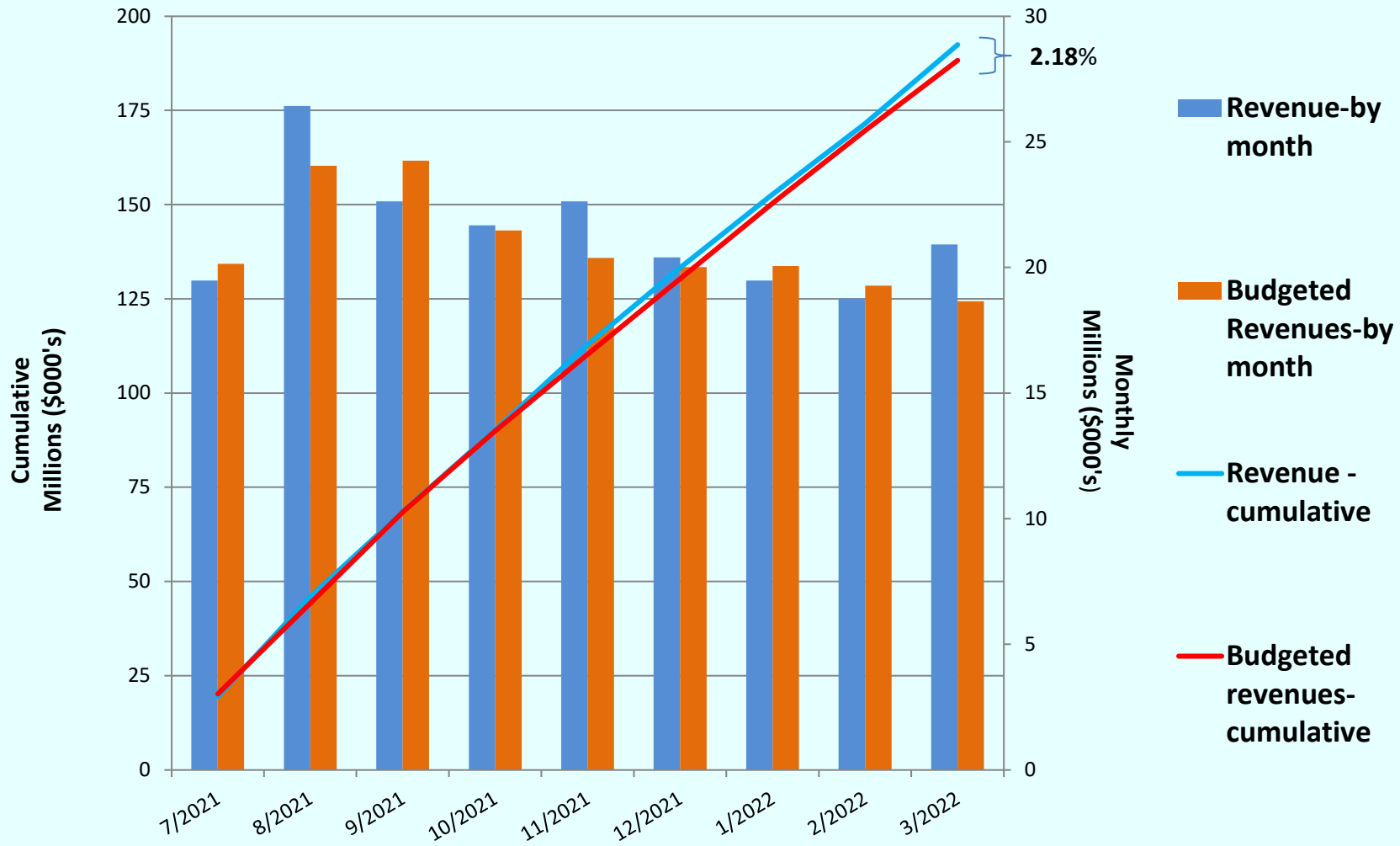
**Operating Expenditures by Category (Budget vs. Actual)
As of March 31, 2022**



BUDGETED OPERATING EXPENDITURES FY 2022



BUDGETED OPERATING REVENUES FY 2022





Mahalo!

BOARD OF WATER SUPPLY

WWW.BOARDOFWATERSUPPLY.COM



ITEM FOR INFORMATION NO. 4

"May 23, 2022

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 three aquifer index stations in low groundwater condition for the production month of April 2022. Waialua is in Caution Status. Kaimuki and Punaluu are in Alert Status. The monthly production average for April 2022 was 136.83 million gallons per day.

The Board of Water Supply rainfall index for the month of April 2022 was 71 percent of normal, with a 5-month moving average of 110 percent. As of May 3, 2022, the Hawaii Drought Monitor shows severe drought conditions in Leeward Oahu. The National Weather Service is forecasting enhanced probabilities for below-normal precipitation through October 2022.

Most monitoring wells exhibited varying degrees of decreasing head levels for the month, due to the relatively lower rainfall during February, March and April, combined with increasing groundwater production. Average monthly Production for April 2022 was higher than 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.

Vice Chair Sproat asked, what was the average monthly pumpage for April 2021 compared to April 2022.

Mr. Usagawa replied that the April 2021 average monthly pumpage was 133 mgd compared to 137 mgd in April 2022. The difference between 2021 and 2022 is that in winter 2021 Oahu received more rain, therefore, less water was produced than in 2022.

**PRODUCTION, HEAD AND RAINFALL REPORT
MONTH OF APRIL 2022**

POTABLE

STATION	MGD
HONOLULU (1)	
KULIOUOU	0.00
WAILUPE	0.06
AINA KOA	0.05
AINA KOA II	0.68
MANOA II	0.93
PALOLO	1.12
KAIMUKI HIGH	2.27
KAIMUKI LOW	3.19
WILDER	8.95
BERETANIA HIGH	2.42
BERETANIA LOW	4.85
KALII HIGH	0.00
KALII LOW	0.00
KAPALAMA	1.39
KALII SHAFT	8.71
MOANALUA	0.88
HALAWA SHAFT	0.00
KAAMILO	0.81
KALAUAO	7.18
PUNANANI	12.13
KAHUMANU	0.32
HECO WAIU	2.50
MANANA	0.30
WELLS SUBTOTAL:	58.75
MANOA TUNNEL	0.17
PALOLO TUNNEL	0.00
GRAVITY SUBTOTAL:	0.17
HONO. SUBTOTAL:	58.92

STATION	MGD
WINDWARD (2)	
WAIMANALO II	0.00
WAIMANALO III	0.00
KUOU I	0.99
KUOU II	0.02
KUOU III	0.76
LULUKU	0.89
HAIKU	0.31
IOLEKAA	0.00
KAHALUU	0.71
KAHANA	0.00
PUNALUU I	0.00
PUNALUU II	4.43
PUNALUU III	1.17
KALUANUI	1.21
MAAKUA	0.24
HAUULA	0.26
WELLS SUBTOTAL:	10.98
WAIM. TUNNELS I & II	0.00
WAIM. TUNNELS III&IV	0.19
WAIHEE INCL. WELLS	0.38
WAIHEE TUNNEL	4.18
LULUKU TUNNEL	0.23
HAIKU TUNNEL	0.18
KAHALUU TUNNEL	1.48
GRAVITY SUBTOTAL:	6.64
WIND. SUBTOTAL:	17.62

STATION	MGD
NORTH SHORE (3)	
KAHUKU	0.40
OPANA	1.01
WAIALEE I	0.02
WAIALEE II	0.22
HALEWA	0.00
WAIALUA	1.91
N.SHORE SUBTOTAL:	3.55

STATION	MGD
MILILANI (4)	
MILILANI I	1.39
MILILANI II	0.00
MILILANI III	0.70
MILILANI IV	2.49
MILILANI SUBTOTAL:	4.58

STATION	MGD
WAHIAWA (5)	
WAHIAWA	1.34
WAHIAWA II	1.54
WAHIAWA SUBTOTAL:	2.88

STATION	MGD
PEARL CITY-HALAWA (6)	
HALAWA 277	0.00
HALAWA 550	0.00
AIEA	0.00
AIEA GULCH 497	1.03
AIEA GULCH 550	0.61
KAONOHI I	1.56
WAIMALU I	0.00
NEWTOWN	1.51
WAIU	1.58
PEARL CITY I	0.83
PEARL CITY II	1.06
PEARL CITY III	0.26
PEARL CITY SHAFT	0.88
PEARL CITY-HALAWA SUBTOTAL:	9.32

STATION	MGD
WAIPAHU-EWA (7)	
WAIPIO HTS.	1.49
WAIPIO HTS. I	0.00
WAIPIO HTS. II	0.38
WAIPIO HTS. III	1.18
WAIPAHU	5.68
WAIPAHU II	1.88
WAIPAHU III	4.00
WAIPAHU IV	2.50
KUNIA I	4.26
KUNIA II	1.98
KUNIA III	1.50
HOAEAE	6.64
HONOULIULI I	0.00
HONOULIULI II	4.25
MAKAKILO	0.19
WAIPAHU-EWA SUBTOTAL:	35.93

STATION	MGD
WAIANAE (8)	
MAKAHA I	0.56
MAKAHA II	0.00
MAKAHA III	0.18
MAKAHA V	0.05
MAKAHA VI	0.00
MAKAHA SHAFT	0.00
KAMAILE	0.00
WAIANAE I	0.31
WAIANAE II	0.78
WAIANAE III	0.65
WELLS SUBTOTAL:	2.52
WAI. C&C TUNNEL	1.40
WAI. PLANT. TUNNELS	0.12
GRAVITY SUBTOTAL:	1.52
WAIANAE SUBTOTAL:	4.04

NONPOTABLE

NONPOTABLE	MGD
KALAUAO SPRINGS	0.44
BARBERS POINT WELL	1.21
GLOVER TUNNEL NP	0.29
NONPOTABLE TOTAL:	1.94

RECYCLED WATER (MARCH 2022)

RECYCLED WATER	MGD
HONOULIULI WRF R-1	5.60
HONOULIULI WRF RO	1.39
RECYCLED WATER TOTAL:	7.00

**PRODUCTION, HEAD AND RAINFALL REPORT
MONTH OF APRIL 2022**

PRODUCTION SUMMARIES

TOTAL WATER	MGD
PUMPAGE	128.50
GRAVITY	8.33
POTABLE TOTAL:	136.83
NONPOTABLE	1.94
RECYCLED WATER	7.00
TOTAL WATER:	145.77

CWRM PERMITTED USE AND BWS ASSESSED YIELDS FOR BWS POTABLE SOURCES				
WATER USE DISTRICTS		A	B	C
		PERMITTED USE/ BWS YLDS	APR 2022	DIFF. A-B
1	HONOLULU	82.93	58.75	24.18
2	WINDWARD	25.02	13.06	11.96
3	NORTH SHORE	4.70	3.55	1.14
4	MILILANI	7.53	4.58	2.95
5	WAHIAWA	4.27	2.88	1.39
6	PEARL CITY-HALAWA	12.25	9.32	2.93
7	WAIPAHU-EWA	50.63	35.93	14.70
8	WAIANAE	4.34	2.52	1.82
TOTAL:		191.67	130.58	61.09

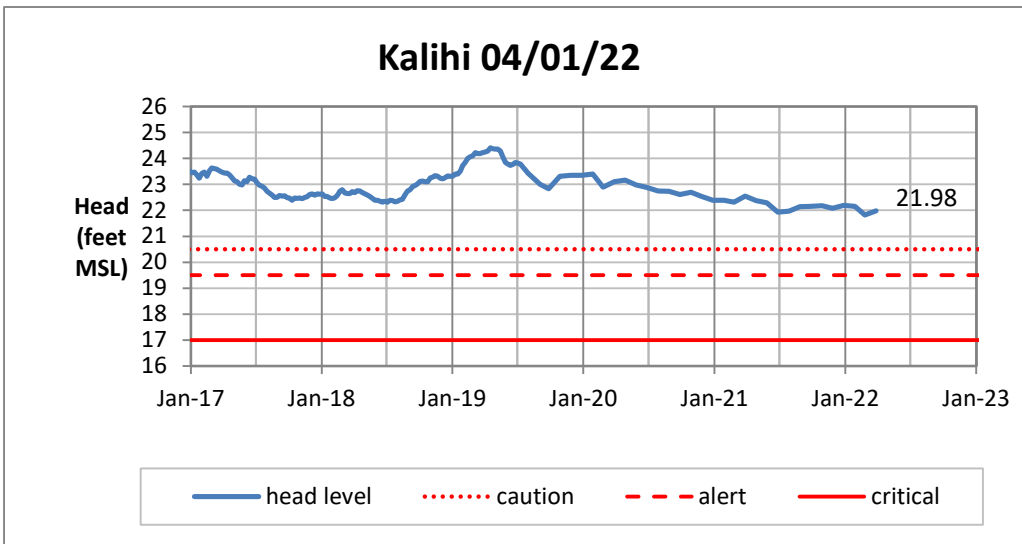
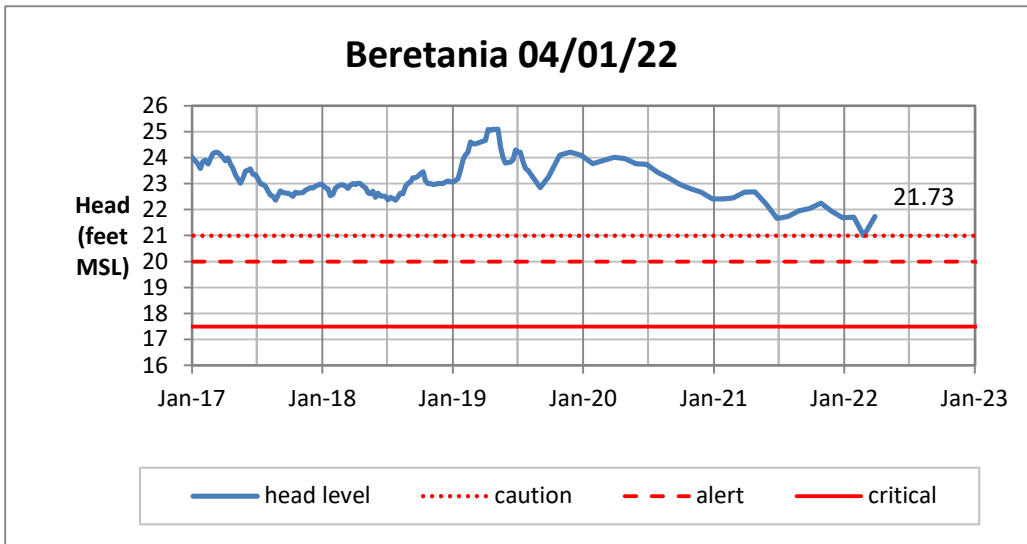
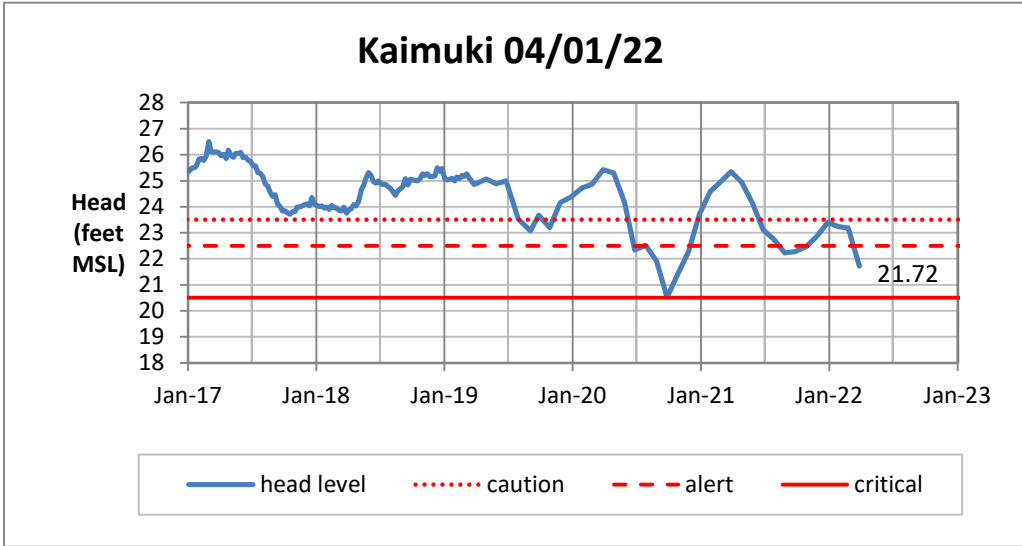
CWRM PERMITTED USE FOR BWS NONPOTABLE SOURCES				
WATER USE DISTRICTS		A	B	C
		PERMITTED USE	APR 2022	DIFF. A-B
7	WAIPAHU-EWA (BARBERS POINT WELL)	1.00	1.21	-0.21
TOTAL:		1.00	1.21	-0.21

EFFECTIVE WATER DEMAND PER DISTRICT

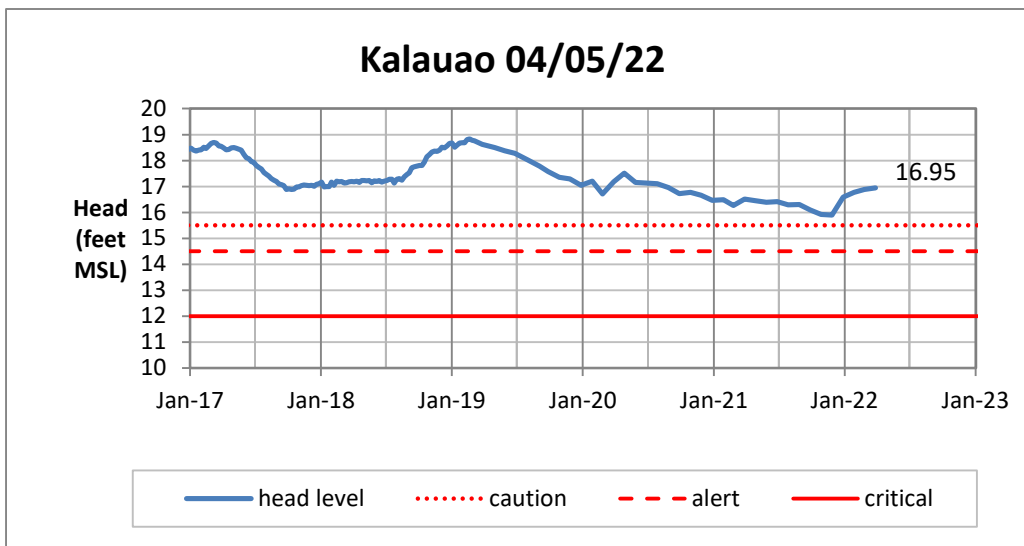
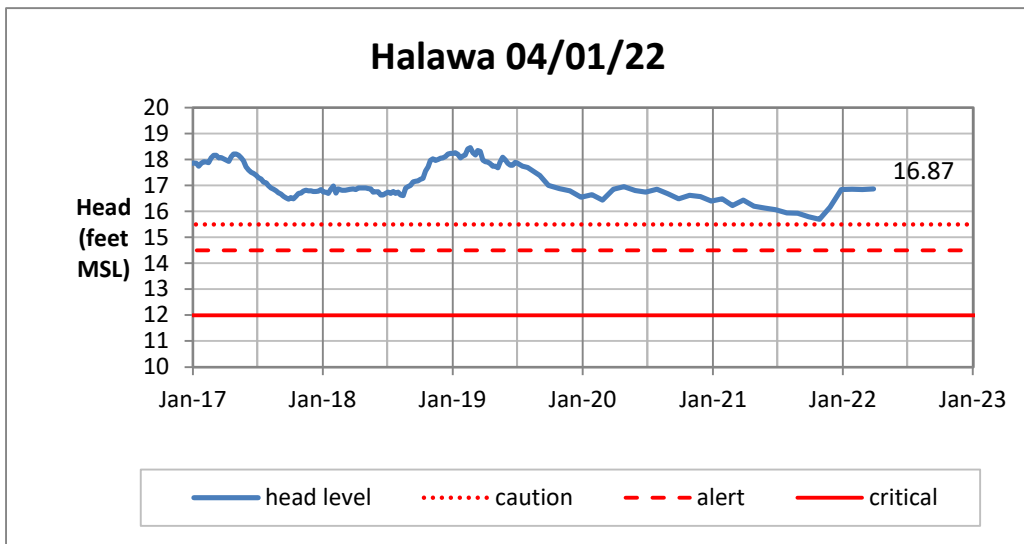
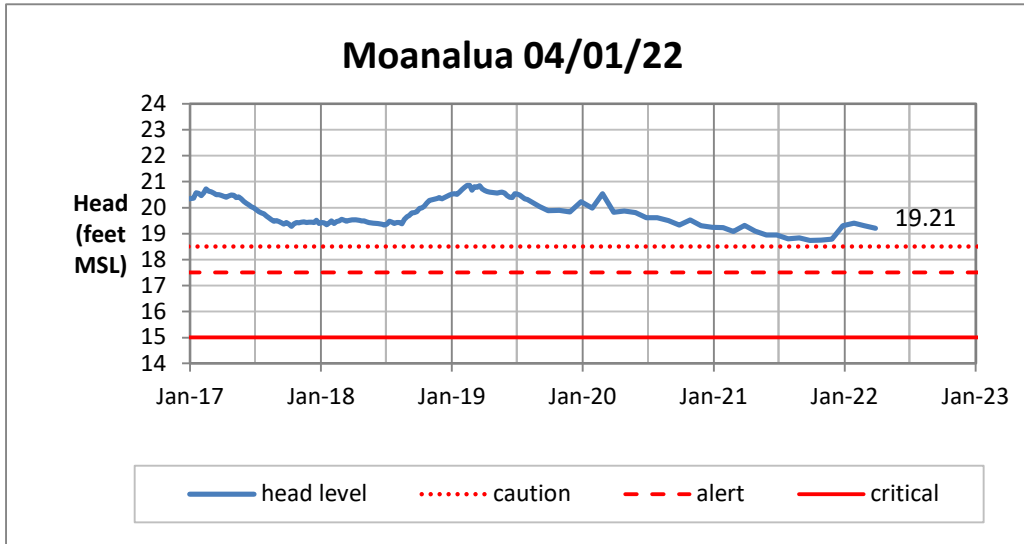
IMPORT/EXPORT BETWEEN WATER USE DISTRICTS			
FROM	TO		MGD
2	1	WINDWARD EXPORT	0.92
7	8	BARBERS PT LB	5.81

WATER USE DISTRICTS		SUBTOTAL	IMPORT	EXPORT	EFFECTIVE WATER DEMAND
1	HONOLULU	58.92	0.92	-	59.84
2	WINDWARD	17.62	-	0.92	16.70
3	NORTH SHORE	3.55	-	-	3.55
4	MILILANI	4.58	-	-	4.58
5	WAHIAWA	2.88	-	-	2.88
6	PEARL CITY-HALAWA	9.32	-	-	9.32
7	WAIPAHU-EWA	35.93	-	5.81	30.12
8	WAIANAE	4.04	5.81	-	9.85
TOTAL:		136.83	6.73	6.73	136.83

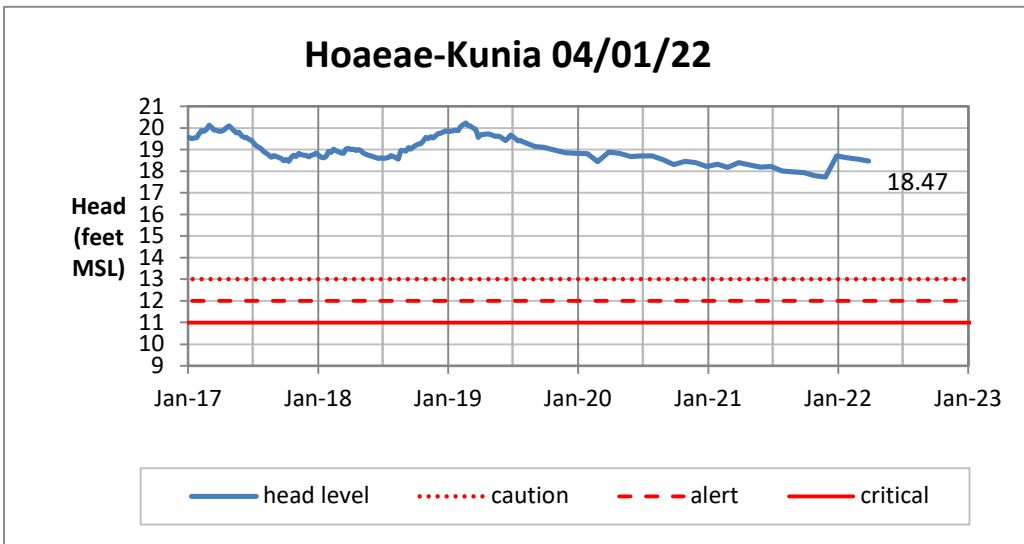
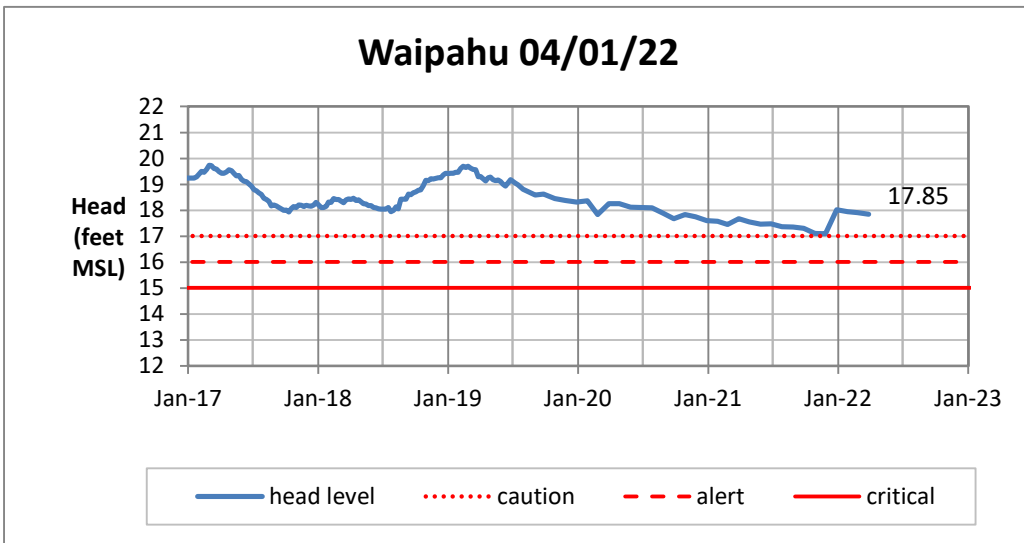
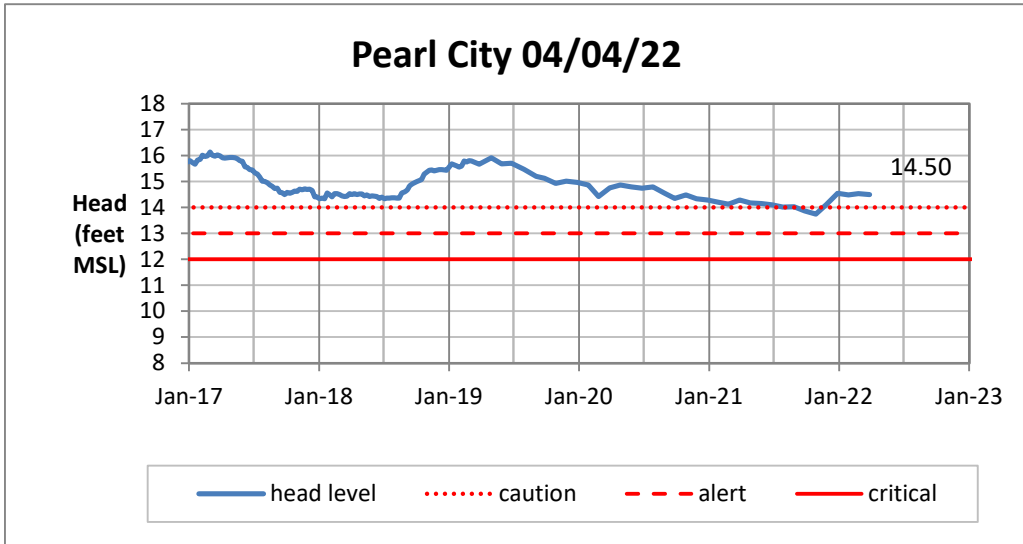
Head Report



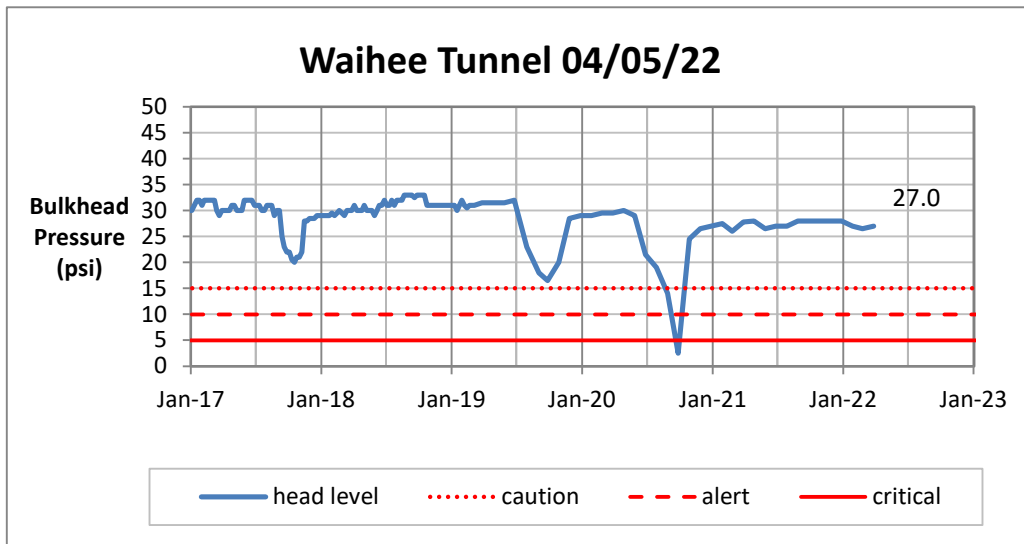
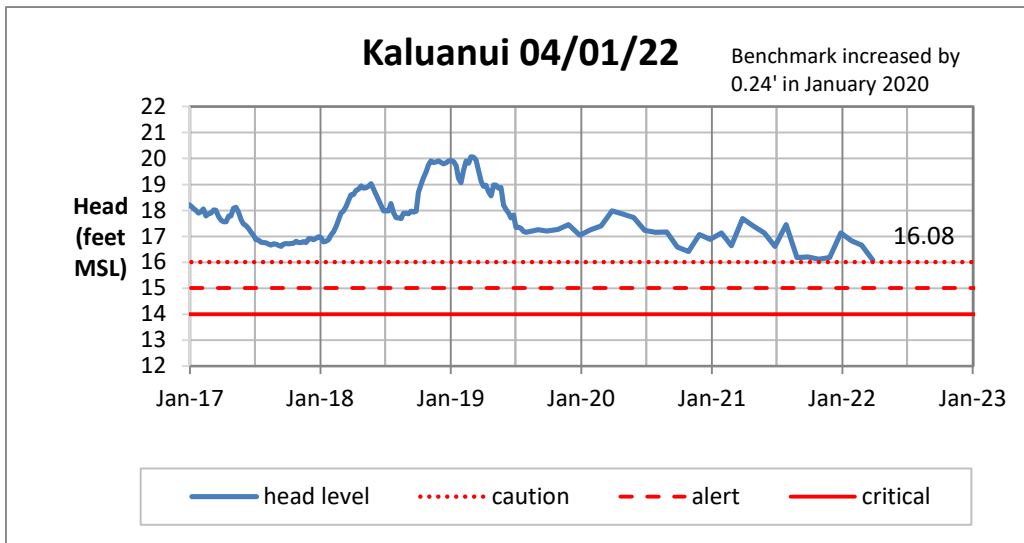
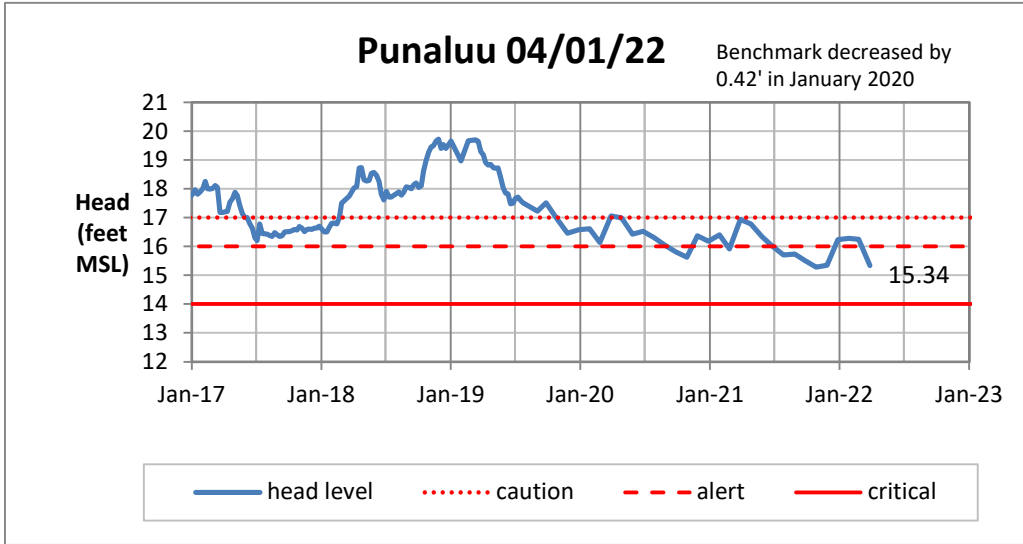
Head Report



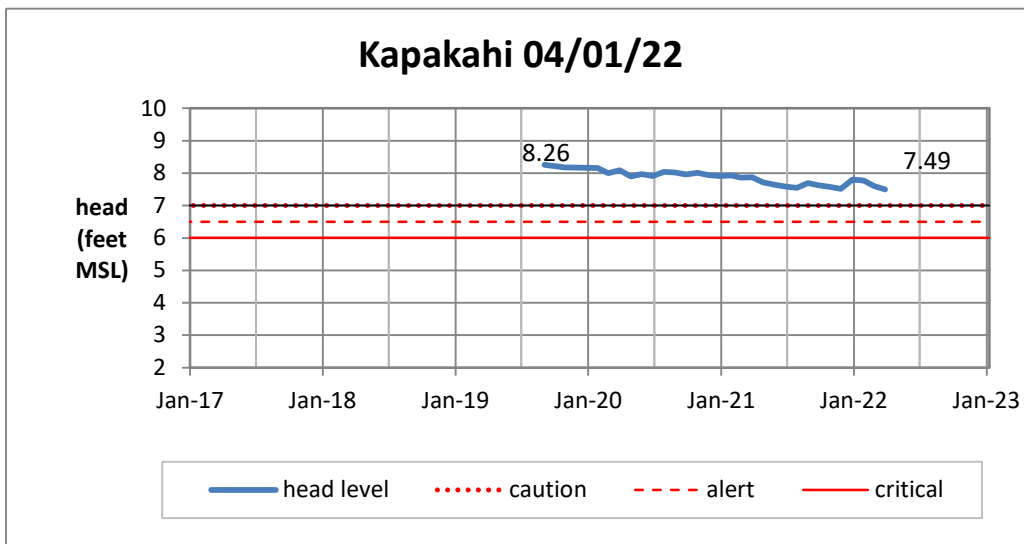
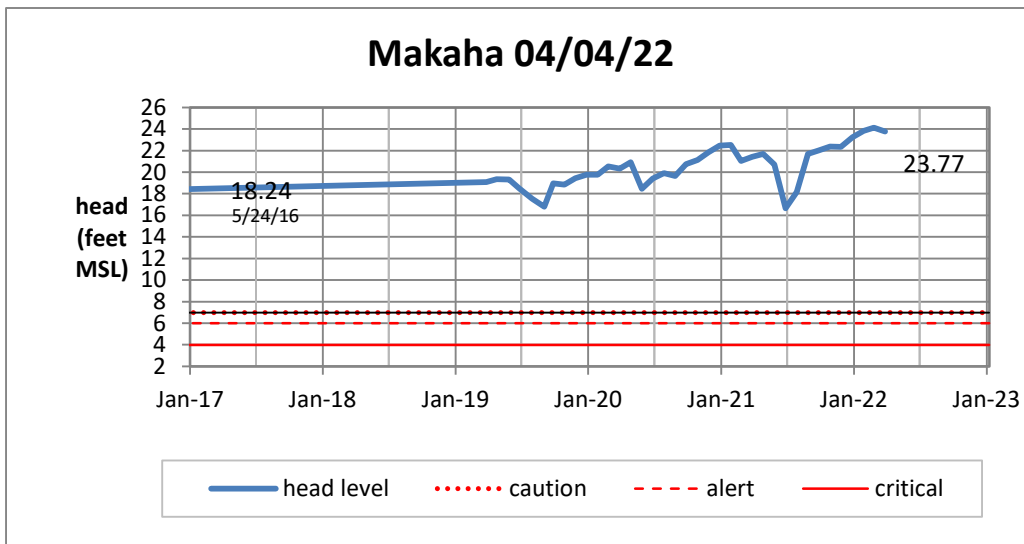
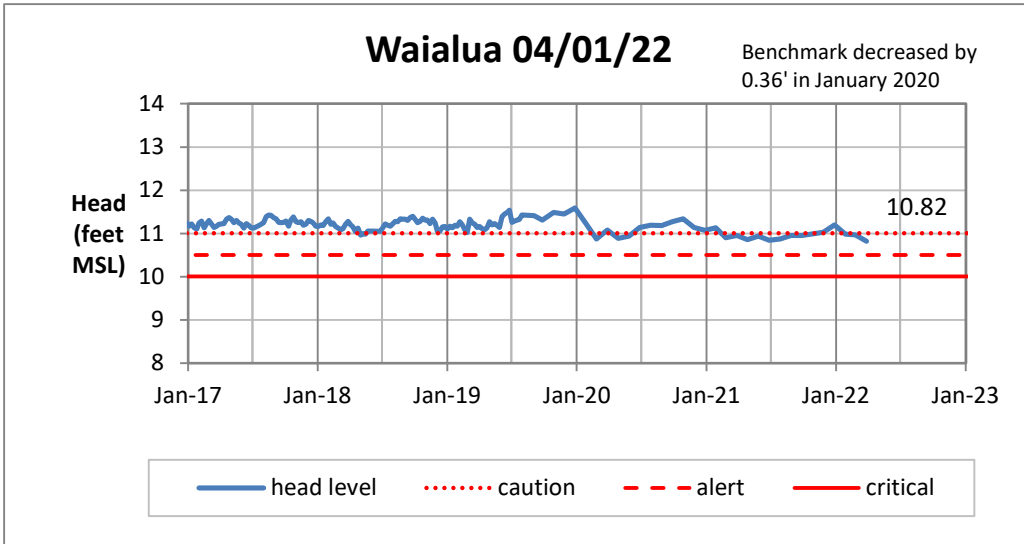
Head Report

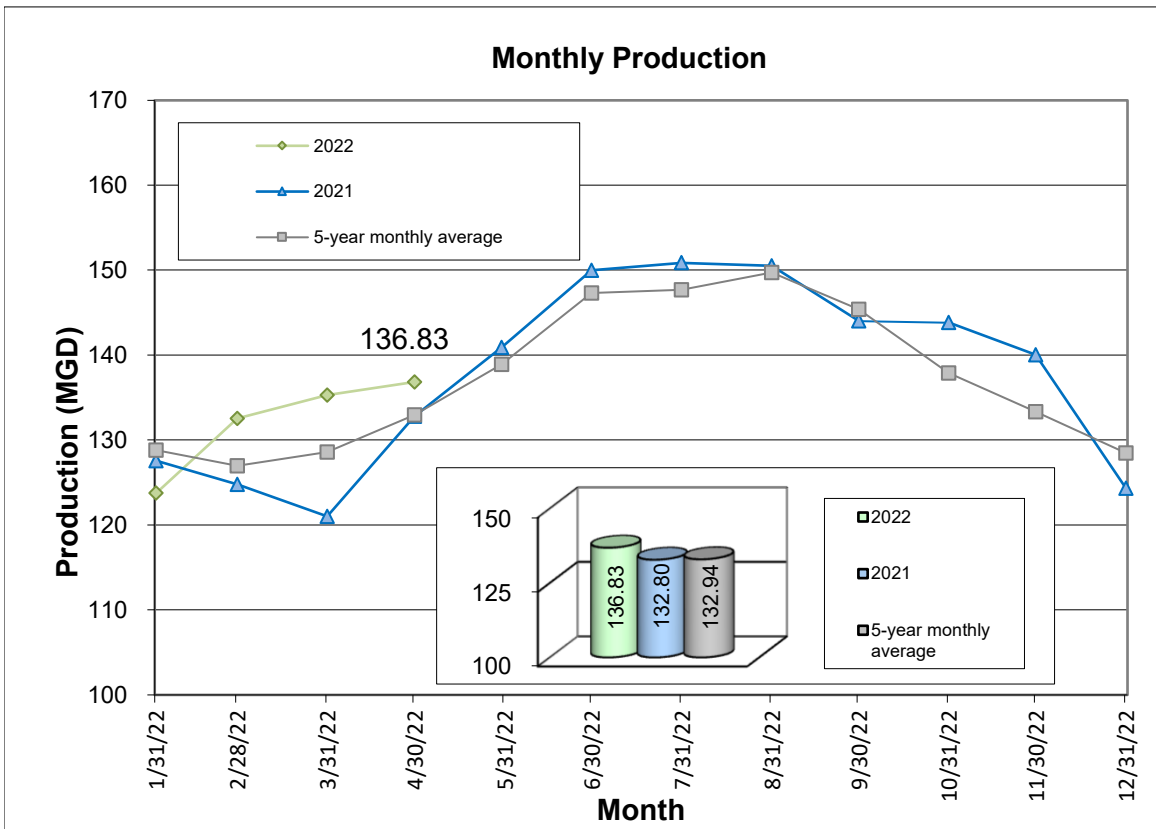
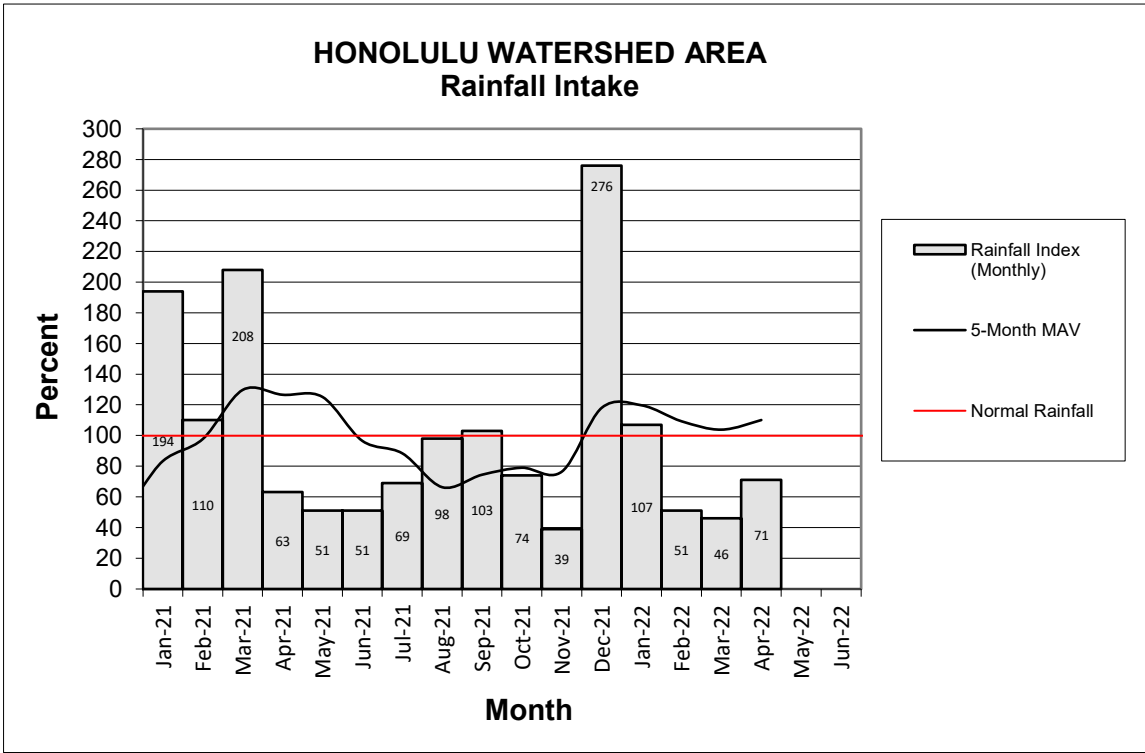


Head Report



Head Report





ITEM FOR INFORMATION NO. 5

"May 23, 2022

WATER MAIN
REPAIR
REPORT FOR
APRIL 2022

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 2022

Jason Nikaido, Program Administrator, Field Operations Division, will report on water main repair work for the month of April 2022.

Respectfully submitted,

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

Attachment"

The foregoing was for information only.

DISCUSSION:

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

Board Member Sword inquired if Utilis, the satellite leak detection has been accurate.

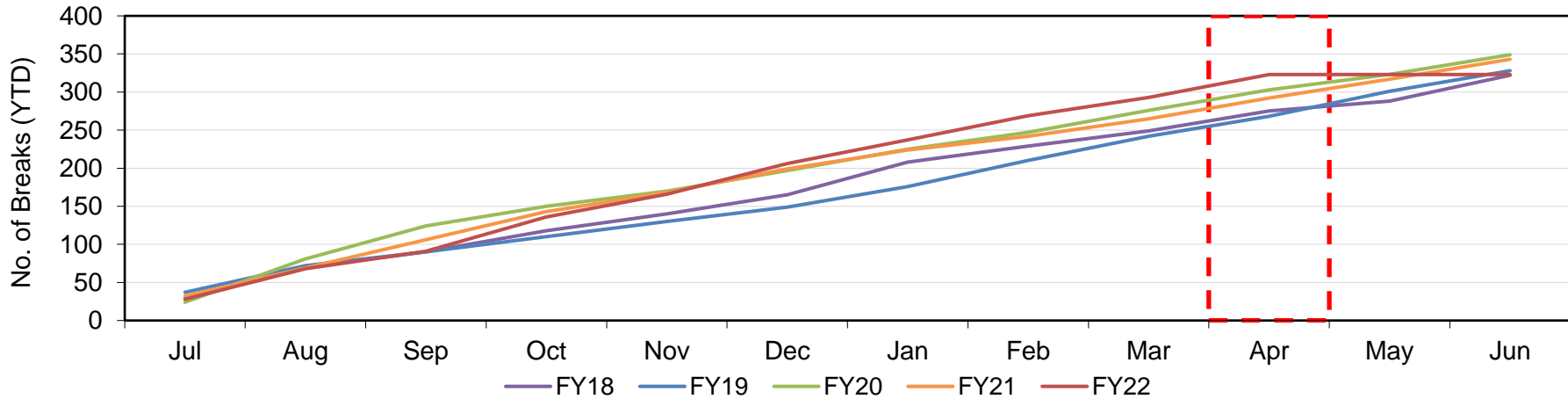
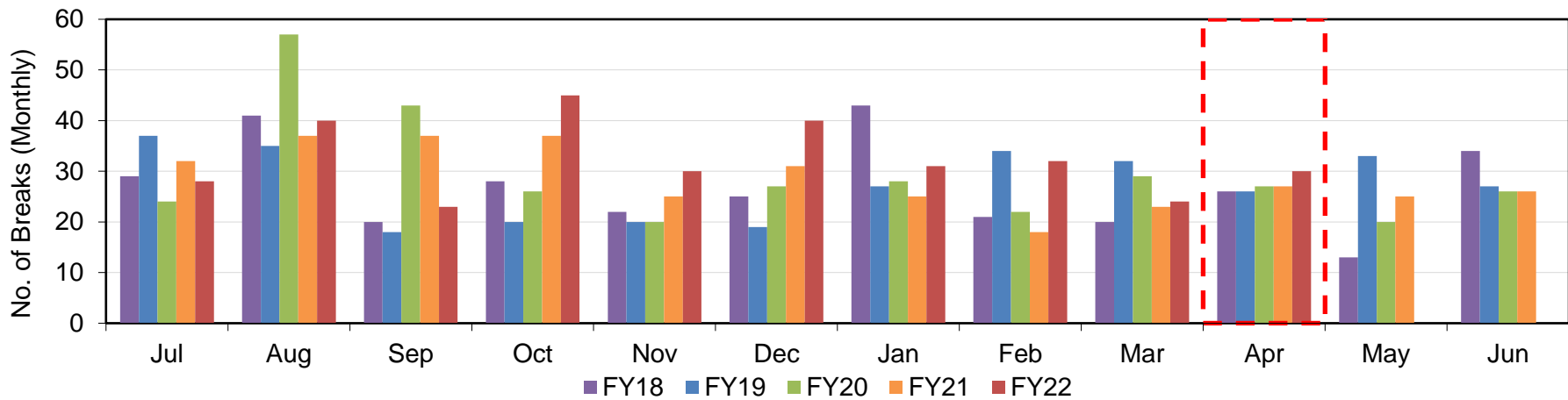
Mr. Nikaido responded that Utilis has been accurate.

Manager Lau commented that Utilis has improved the efficiency of locating leaks. He commended Mr. Nikaido and his team.

WATER MAIN REPAIR REPORT
for April 2022

Monthly Main Breaks

FY	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
2022	28	40	23	45	30	40	31	32	24	30			323
2021	32	37	37	37	25	31	25	18	23	27	25	26	343
2020	24	57	43	26	20	27	28	22	29	27	20	26	349
2019	37	35	18	20	20	19	27	34	32	26	33	27	328
2018	29	41	20	28	22	25	43	21	20	26	13	34	322

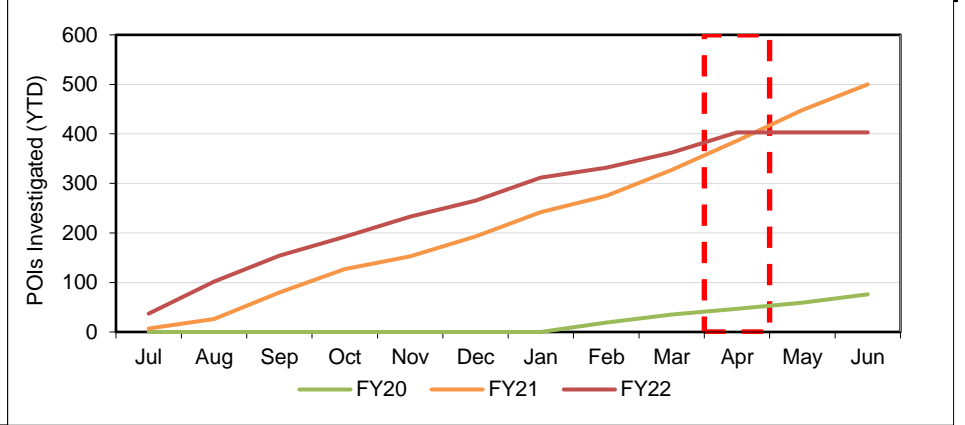
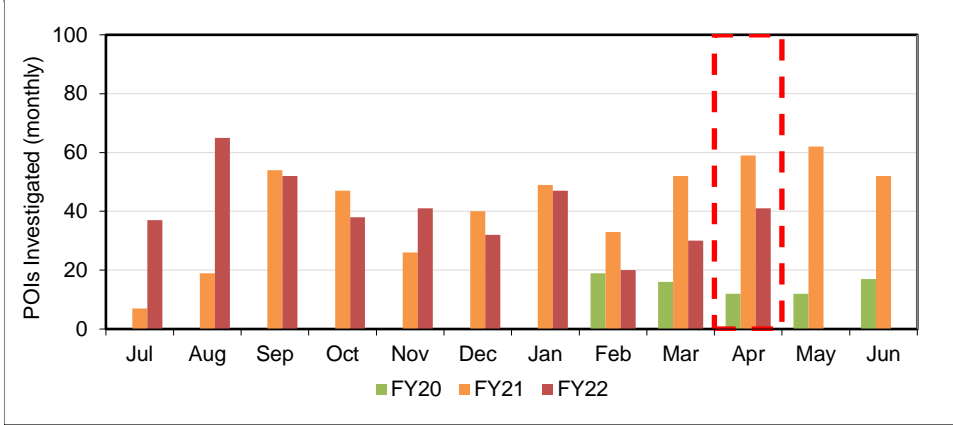


Date	Address	Size (In)	Pipe Type
4/1/2022	159 Lakeview Cir, Wahiawa	6	CI
4/2/2022	246 Kaiulani Ave, Honolulu	12	DI
4/5/2022	813 Alder St, Honolulu	8	CI
4/6/2022	91-1721 Kikoo St, Ewa Beach	8	DI
4/7/2022	98-143 Olepe Loop, Aiea	8	DI
4/7/2022	91-89 Parish Dr, Ewa Beach	8	PVC
4/8/2022	334 Hookela Pl, Honolulu	12	PVC
4/10/2022	3959 Kaimuki Ave, Honolulu	8	DI
4/10/2022	34 Dowsett Ave, Honolulu	8	DI
4/11/2022	353 Makana Rd, Pupukeya	8	CI
4/12/2022	254 Kaiulani Ave, Honolulu	12	DI
4/14/2022	41-1660 Humuka Loop, Waimanalo	8	CI
4/14/2022	956 Queen St, Honolulu	6	CI
4/14/2022	1940 Kuapapa Pl, Honolulu	6	DI
4/15/2022	86-228 Kawili St, Waianae	8	PVC
4/17/2022	721 Panui St, Honolulu	6	CI
4/17/2022	665 Kealahou St, Honolulu	12	CI
4/18/2022	2261 Aumakua St, Pearl City	8	CI
4/19/2022	2207 Makaanani Dr, Honolulu	6	CI
4/19/2022	691 Kealahou St, Honolulu	12	CI
4/20/2022	2828 Lowrey Ave, Honolulu	8	PVC
4/21/2022	41-1023 Kakaina St, Waimanalo	6	AC
4/22/2022	94-651 Farrington Hwy, Waipahu	8	CI
4/24/2022	2233 Halakau St, Honolulu	8	DI
4/24/2022	507 Iliaina St, Kailua	8	AC
4/24/2022	45-1137 Grote Rd, Kaneohe	8	CI
4/25/2022	1315 River St, Honolulu	12	CI
4/26/2022	925 Dillingham Blvd, Honolulu	8	DI
4/27/2022	98-115 Kamehameha Hwy, Aiea	12	CI
4/27/2022	41-1023 Kakaina St, Waimanalo	6	AC

LEAK DETECTION for April 2022

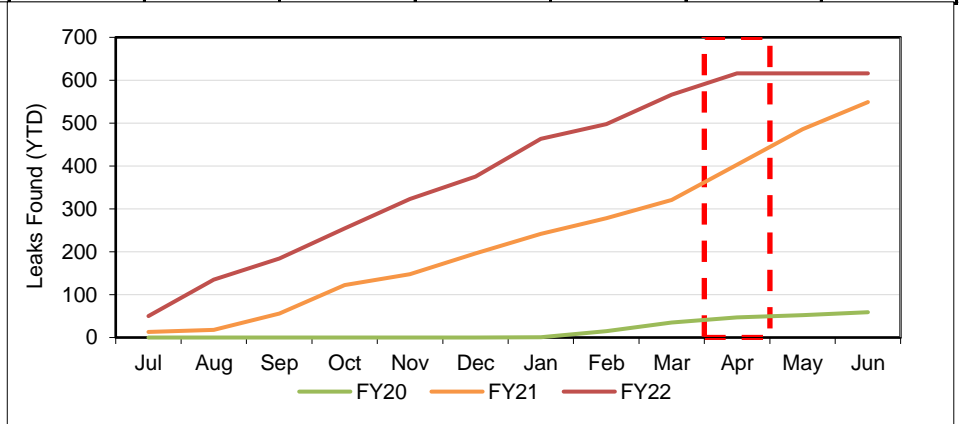
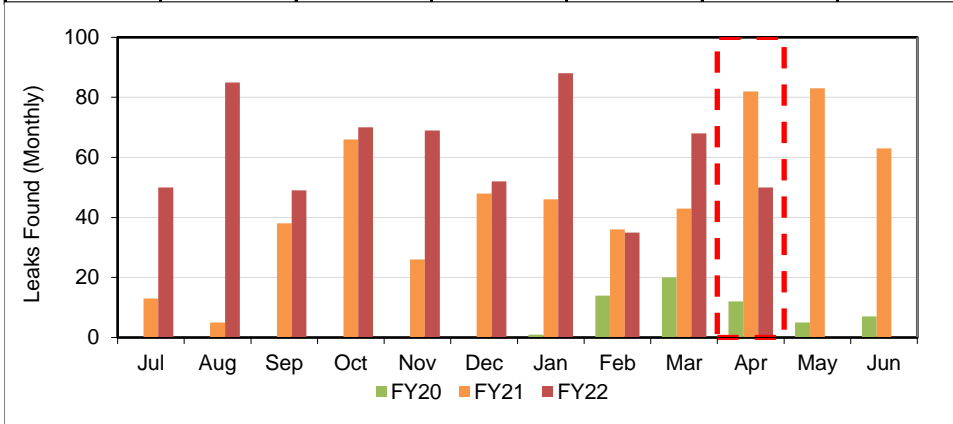
POIs Investigated

FY	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
2022	37	65	52	38	41	32	47	20	30	41			403
2021	7	19	54	47	26	40	49	33	52	59	62	52	500
2020							0	19	16	12	12	17	76



Leaks Found

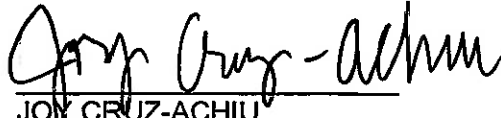
FY	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
2022	50	85	49	70	69	52	88	35	68	50			616
2021	13	5	38	66	26	48	46	36	43	82	83	63	549
2020							1	14	20	12	5	7	59



**MOTION TO
ADJOURN**


There being no further business Chair Andaya at 4:31 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 23, 2022 are respectfully submitted,


JOY CRUZ-ACHIU

THE MINUTES OF THE PUBLIC HEARING AND REGULAR SESSION BOARD MEETING ON MAY 23, 2022 WERE APPROVED AT THE JUNE 27, 2022 BOARD MEETING			
	AYE	NO	COMMENT
BRYAN P. ANDAYA	X		
KAPUA SPROAT	X		
RAY C. SOON			ABSTAIN
MAX J. SWORD	X		
NA'ALEHU ANTHONY	X		
JADE T. BUTAY			ABSENT
DAWN B. SZEWCZYK	X		

APPROVED:


BRYAN P. ANDAYA
Chair of the Board
JUN 27 2022

Date