

**BOARD OF WATER SUPPLY  
KA 'OIHANA WAI**

**CITY AND COUNTY OF HONOLULU**

630 SOUTH BERETANIA STREET • HONOLULU, HAWAII 96843  
Phone: (808) 748-5000 • [www.boardofwatersupply.com](http://www.boardofwatersupply.com)

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MEIA

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ERWIN KAWATA  
DEPUTY MANAGER  
HOPE MANAKIA



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JONATHAN KANESHIRO  
EDWIN H. SNIFFEN, Ex-Officio  
GENE C. ALBANO P.E., Ex-Officio

August 22, 2023

NOTICE

The Board of Water Supply, City and County of Honolulu, Public Hearing and Regular Meeting will be held on Monday, August 28, 2023, at 2:00 p.m. in the Boardroom, Public Service Building, 630 South Beretania Street, Honolulu, HI 96843.

Limited seating will be available for in-person testifiers in the Boardroom. The public may also view the livestream of the meeting from the lobby of the Board of Water Supply, Public Service Building, 630 S. Beretania St., Honolulu, HI 96843.

**TESTIMONY**

Testimony may be submitted as follows:

- Written testimony should include the submitter's address, email address, and phone number. Testimony should be received by Monday, August 28, 2023, at noon. Submit written testimony by:
  - Email to [board@hbws.org](mailto:board@hbws.org)
  - Online at [boardofwatersupply.com/testimony](http://boardofwatersupply.com/testimony)
  - Mail to Board of Water Supply, 630 S. Beretania St., Honolulu, HI 96843
  - Fax to (808) 748-5079
- Oral testimony will be accepted remotely and in person during the meeting. Pre-registration is encouraged to facilitate as much remote and in-person testimony as reasonably possible during the time allotted. Testifiers should also consider submitting a written version of their oral testimony.

- To testify remotely by phone or video using the Zoom videoconferencing platform, please submit your request by:
  - Email to [board@hbws.org](mailto:board@hbws.org)
  - Online at [boardofwatersupply.com/testimony](http://boardofwatersupply.com/testimony)Zoom registration instructions, as well as participant guidelines, will be sent to the contact information provided. Once confirmed as registered, testifiers will receive an email containing the links and instructions to join the Zoom session. Submit your request to testify remotely by Friday, August 25, 2023, at noon.
- To testify in person at the Board of Water Supply, Public Service Building, 630 S. Beretania St., Honolulu, HI 96843, please pre-register by submitting your request by Monday, August 28, 2023:
  - Email to [board@hbws.org](mailto:board@hbws.org)
  - Online at [boardofwatersupply.com/testimony](http://boardofwatersupply.com/testimony)

In-person testifiers should check-in with building security and then with testimony staff located in the lobby. Testifiers will be escorted to and from the Board Room. On-site registration will be available for walk-in requests.

Testimony is limited to two (2) minutes and shall be presented by the registered speaker only. Testimony submitted in writing or orally, electronically or in person, for use in the meeting process is public information. All testimony will be included as part of the approved meeting minutes at [boardofwatersupply.com/boardmeetings](http://boardofwatersupply.com/boardmeetings).

### **MATERIALS AVAILABLE FOR INSPECTION**

Meeting materials (“board packet” under HRS Section 92-7.5) are accessible at [www.boardofwatersupply.com/boardmeetings](http://www.boardofwatersupply.com/boardmeetings).

### **VIEWING THE MEETING**

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

### **SPECIAL REQUESTS AND ACCOMMODATIONS**

If you require special assistance, an auxiliary aid or service, and/or an accommodation due to a disability to participate in this meeting (i.e., sign language interpreter, interpreter for language other than English, or wheelchair accessibility), please call Joy at (808) 748-5172 or email your request to [board@hbws.org](mailto:board@hbws.org) **at least three business days prior to the meeting date**. If a response is received after the requested three business days before the meeting date deadline, we will try to obtain the auxiliary aid/service or accommodation, but we cannot guarantee that the request will be filled.

Upon request, this notice is available in alternate formats such as large print, Braille, or electronic copy.

The agenda for August 28, 2023, Public Hearing and Regular Meeting of the Board of Water Supply is as follows:

**PUBLIC HEARING**

1. Proposed Amendment to the Fiscal Year 2023-2024 Capital Improvement Program Budget of the Board of Water Supply

**ITEMS REQUIRING BOARD ACTION**

1. Approval of the Amended Minutes of the Regular Meeting Held on June 26, 2023
2. Approval of the Minutes of the Regular Meeting Held on July 24, 2023
3. Adoption of Resolution No. 970, 2023, Amending the 2023-2024 Capital Improvement Program Budget and Appropriating Funds Therefor and Revision of the 2023-2024 Capital Improvement Program Budget – Amendment No. 1
4. Adoption of Resolution No. 971, 2023, Kathleen Elliott-Pahinui, 2023 Manager of the Year
5. Adoption of Resolution No. 972, 2023, Sheri Mikami, 2023 Employee of the Year
6. Adoption of Resolution No. 973, 2023, Albert Mau, 2023 Employee of the Year
7. Adoption of Resolution No. 974, 2023, Acceptance of Gift to the Board of Water Supply from the Hawaii Community Foundation to Attend the US Water Alliance One Water Summit 2023 Conference

**ITEMS FOR INFORMATION**

1. Update on the Board of Water Supply's Response to the Potential Impacts of the Red Hill Fuel Contamination
2. Fiscal Year 2023 Claims Management Summary
3. Financial Update for the Quarter Ended June 30, 2023
4. Capital Improvement Program Quarterly Update
5. Status Update of Groundwater Levels at All Index Stations
6. Water Main Repair Report for July 2023

## MINUTES

To watch the recording of this meeting, please click on the following link:  
<https://vimeo.com/bwshonolulu/aug-28-2023>. Closed captioning is available.

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

August 28, 2023

At 2:06 PM on August 28, 2023, in the Public Service Building Board Room at 630 South Beretania Street, Honolulu, Hawaii, Board Chair Nā'ālehu Anthony called to order the Public Hearing and Regular Meeting.

Present: Nā'ālehu Anthony, Chair  
Max J. Sword, Board Member  
Bryan P. Andaya, Board Member via Zoom  
Gene C. Albano, Ex-Officio

Also Present: Ernest Lau, Manager and Chief Engineer  
Erwin Kawata, Deputy Manager  
Jadine Urasaki, Acting Program Administrator,  
Capital Projects Division  
Jennifer Elflein, Program Administrator,  
Customer Care Division  
Kathleen Elliott-Pahinui, Information Officer,  
Communications Office  
Raelynn Nakabayashi, Executive Assistant I,  
Executive Support Office  
Jason Nikaido, Program Administrator,  
Field Operations Division  
Joseph Cooper, Waterworks Controller,  
Finance Division  
Henderson Nuuhiwa, Program Administrator,  
Information Technology Division  
Michael Matsuo, Land Administrator, Land Division  
Roland Fenstermacher,  
Acting Program Administrator,  
Water Quality Division  
Barry Usagawa, Program Administrator,  
Water Resources Division  
Kevin Ihu, Program Administrator,  
Water System Operations Division  
Joyce Lin, Civil Engineer IV,  
Office of the Manager and  
Chief Engineer  
Kathy Mitchell, Administrative Services Officer  
via Vimeo  
Kimberly Kuwaye, Manager Secretary  
Joy Cruz-Achiu, Board Secretary

Steven Norstrom, Information Specialist II,  
Communications Office  
Stella Bernardo, Information Specialist II,  
Communications Office via Zoom  
Michele Harman, Community Relations Specialist I,  
Communications Office via Zoom  
Wayne Maria, Information Specialist II,  
Communications Office

Others Present: Jeff Lau, Deputy Corporation Counsel  
via Zoom  
Jessica Wong, Deputy Corporation Counsel  
via Zoom

Absent: Kapua Sproat, Vice Chair  
Jonathan Kaneshiro, Board Member  
Edwin H. Sniffen, Ex-Officio

Chair Nā'ālehu Anthony opened the Board meeting with an 'ōlelo no'eau:

Aloha mai kākou e nā hoa makamaka mai ka lā hiki a ka lā kau. Welina nui me ke aloha!

Mahalo nui no kēia 'ākoakoa 'ana o kākou no ka pono o ka lāhui, no ka pono o ka 'āina, a no ka pono o ka wai nō ho'i. Eia he 'ōlelo no'eau e kālele ana i ke aloha o na alaka'i ma Lahaina ma Maui.

Ka ipu kukui pio 'ole i ke kua'ula.

Chair Anthony stated that the 'ōlelo no'eau number 1414 Ka ipu kukui pio 'ole i ke kua'ula honors all those in Lahaina, Maui, and the leadership there that is working tirelessly. He translated the 'ōlelo no'eau as The light that will not go out in spite of the blowing or the kua'ula wind—said of Lahainaluna school, where many leaders of old Hawai'i were educated.

Chair Anthony stated that our hearts go out to all those affected by the Lahaina fires today.

Chair Anthony welcomed everyone to the August 28, 2023, Public Hearing and Regular Meeting of the Board of Water Supply (BWS). He stated that the Board of Water Supply is dedicated to providing safe, dependable, and affordable supply of water now and into the future.

Before continuing the meeting, Chair Anthony stated that a recording would play to share reminders for public participation and virtual meeting regulations required by law.

The recording played: The meeting materials under HRS section 92, 7.5 are accessible at [www.boardofwatersupply.com/boardmeeting](http://www.boardofwatersupply.com/boardmeeting). The public may attend this meeting in person at the Public Service building located at 630 South Beretania Street. The public may also view a live stream of today's meeting on our website at [www.boardofwatersupply.com/live](http://www.boardofwatersupply.com/live). We have been accepting written or oral testimony for today's meeting. Instructions and an online submittal form are available at [boardofwatersupply.com/testimony](http://boardofwatersupply.com/testimony). The deadline to submit advance written testimony has passed. Testimony received by noon today have been distributed to the board members. We will continue to accept written testimony today through our online form. Oral testimony in person or remotely will be accepted during today's meeting. To facilitate as much in-person and remote testimony as reasonably possible during the time allotted, preregistration and submittal of a written version of testimony at [boardofwatersupply.com/testimony](http://boardofwatersupply.com/testimony) is strongly encouraged. To testify in person, please register using our online form or come to the public service building at 630 South Beretania Street. We have a representative in the lobby to provide intake and further instructions. To request to testify remotely, please complete the online form at [boardofwatersupply.com/testimony](http://boardofwatersupply.com/testimony). Requestors will receive an email containing links and instructions to join the Zoom session. Testifiers will have two minutes to state their position. A timekeeper will alert testifiers when there is one minute remaining. Once the two minutes are up, please summarize to allow time for questions from the board. Then, make room for the next testifier. Board members attending any board meeting remotely must be visible to the public to be considered, present, and meet quorum guidelines. Board members participating remotely must also disclose their location and anyone present at their location during roll call. Meeting participants who are calling or video conferencing in. Please mute your microphone when you're not speaking. If you have a question, comment, or wish to enter or second a motion on an action item, please unmute your microphone and identify yourself before continuing to speak. If you encounter technical issues

during today's meeting, please use the Zoom chat to send a direct message to our support team. Their names are listed in the message to all participants. To open the chat window, please click the text Bubble icon on the Zoom Toolbar.

Chair Anthony requested a roll call for the Public Hearing and Regular Meeting. He asked those participating remotely to give the appropriate disclosures upon responding.

Board Member Bryan Andaya joined via Zoom, responded aye, and disclosed that he was alone at his location; Board Member Max Sword responded and was present in the Board room; and Board Member Gene Albano responded and was present in the Board room. Chair Nā'ālehu Anthony was present in the Boardroom. Vice Chair Kapua Sproat, Board Member Jonathan Kaneshiro, and Board Member Edwin Sniffen were absent.

Chair Anthony introduced those in the Boardroom: Manager Ernest Lau, Deputy Manager Erwin Kawata, Board Secretary Joy L. Cruz-Achiu, Manager Secretary Kimberly Kuwaye, and Information Specialist II Steven Norstrom and Wayne Maria. Joining via Zoom from the City and County Corporation Counsel were Deputy Jeff Lau and Deputy Jessica Wong.

PUBLIC HEARING

Chair Nā'ālehu Anthony Opened the Public Hearing at 2:12 PM and stated that the Public Hearing was published in the Thursday, August 17, 2023, Star Advertiser.

Chair Anthony introduced Raelynn Nakabayashi, Executive Assistant I, Executive Support Office.

Ms. Raelynn Nakabayashi stated that the purpose of this Public Hearing is to discuss the proposed revisions to the Fiscal Year 2024 Capital Improvement Program (CIP) Budget – Amendment 1.

Ms. Nakabayashi shared that the proposed revised CIP Budget – Amendment 1 will


- Increase funding for existing pump renewal and replacement projects; and
- Re-appropriate projects from Fiscal Year 2023 into Fiscal Year 2024 that were unable to be awarded in Fiscal Year 2023; and
- Add a new project, the BWS Water Master Plan (WMP) update, and
- Delete a budgeted project which will be deferred to a future fiscal year.

The revised CIP Budget – Amendment 1 will also increase the Fiscal Year 2024 construction cost index account to provide sufficient funding for the new projects.

Ms. Nakabayashi stated that the Fiscal Year 2024 Budget adopted in May 2023 was \$212,646,000. The BWS is proposing an increase of \$10,630,000 to the CIP Budget for an amended total of \$223,911,976.

**BUDGET AMENDMENT SUMMARY**

<u>Resolution 966, 2023</u>	
FY 2024 CIP Budget (as Adopted)	\$212,646,000
<u>Resolution 970, 2023</u>	
FY 2024 – Amendment No. 1	
Projects – Added	+\$10,630,000
Projects – Deleted	(\$ 580,000)
Construction Cost Index Account – Improvement	+\$ 850,000
Construction Cost Index Account – Extramural	<u>+\$ 365,976</u>
FY 2024 CIP Budget (as Amended)	\$223,911,976



Board Member Max Sword asked if the improvements to the Wilhelmina Rise 811 project would include separating the tank from the booster.



Ms. Nakabayashi responded that the project, as proposed in Fiscal Year 2024, would only include improvements to the Wilhelmina Rise 811 reservoir. Improvements to the booster pumps and other site work would be deferred to a future fiscal year.

Board Member Sword inquired about the condition of Hawaii Loa Booster since it would be deferred to a future fiscal year.

Manager Ernest Lau replied that the Hawaii Loa Booster pump station is functional. He explained that the more immediate need is the renovation to the reservoir. He further explained the bids received in Fiscal Year 2023 were \$12.5 million (M) over budget. He shared that the booster pump is newer than the reservoir. Therefore, the Hawaii Loa booster pump and reservoir projects will be programmed in the future, considering future priorities such as source development.

Board Member Gene Albano asked how confident the BWS is that the bids won't go over the BWS's budget of \$8.5M budget.

Manager Lau responded that the BWS remains hopeful that the reduced project scope will result in bids with the BWS's available funds. He stated there is no guarantee but explained that there are many factors impacting bid pricing, and timing may be one of those factors. He shared that historically, the BWS has put many projects out to bid in the fourth quarter of the fiscal year; he hopes that if bids are put out earlier, the pricing will come in lower.

Chair Anthony closed the Public Hearing at 2:21 PM.

**\*\*Note:** the Materials as posted with the Meeting Agenda on August 22, 2023 contained errors on Page 16 of the PowerPoint Presentation and Page 3 of the Letter to the Board regarding "Adoption of Resolution No. 970, 2023 Amending the 2023-2024 Capital Improvement Program Budget and Appropriating Funds Therefor and Revision of the 2023-2024 Capital Improvement Program Budget – Amendment No. 1", as related to the information presented about the Construction Cost Index Account. The correct figures were reflected in the resolution that was voted upon and approved at the August 28, 2023, Board Meeting.



REVISIONS TO THE FISCAL  
YEAR 2024 CAPITAL  
IMPROVEMENT PROGRAM  
BUDGET

August 28, 2023

Raelynn Nakabayashi  
[www.boardofwatersupply.com](http://www.boardofwatersupply.com)

# FISCAL YEAR 2023 BUDGET AMENDMENT NO. 1

This amendment to the Fiscal Year 2024 Capital Improvement Program is necessary to include additional needed funds for Pump Renewal and Replacement:

- Pump Renewal and Replacement \$580,000

It will also include Projects from Fiscal Year 2023 that were unable to be awarded in Fiscal Year 2023:

- Wilhelmina Rise 81 1' Reservoir Replacement Project \$8,500,000
- DLNR Windward Exploratory Well State Well Number (3-2449-002) Project \$550,000

It will also add a new project to the Fiscal Year 2024 Capital Improvement Budget:

- BWS Water Master Plan Update \$1,000,000

It will delete a budgeted project that is necessary to defer in Fiscal Year 2024:

- Hawaii Loa Booster No. 1 Pump and MCC (\$580,000)

This amendment will increase the Fiscal Year 2024 Construction Cost Index Account to provide sufficient funding for these new projects:

- CIP Construction Cost Index Account, increased by \$1,215,976



# 1. INCREASE APPROPRIATIONS (CIP) BY \$10,630,000

## Item No. 5. PUMP RENEWAL AND REPLACEMENT

Description: Renewal and replacement of various BWS pumps and plant facilities.

<u>Appropriation</u> OPERATING FUND	CONST	<u>Present</u> 3,500,000	<u>Proposed</u> 4,080,000
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Reason: Additional funds are needed for to address supplemental projects required to support our water system.



# 1. INCREASE APPROPRIATIONS (CIP) BY \$10,630,000

Item No. 41. WILHELMINA RISE 811 RESERVOIR REPLACEMENT

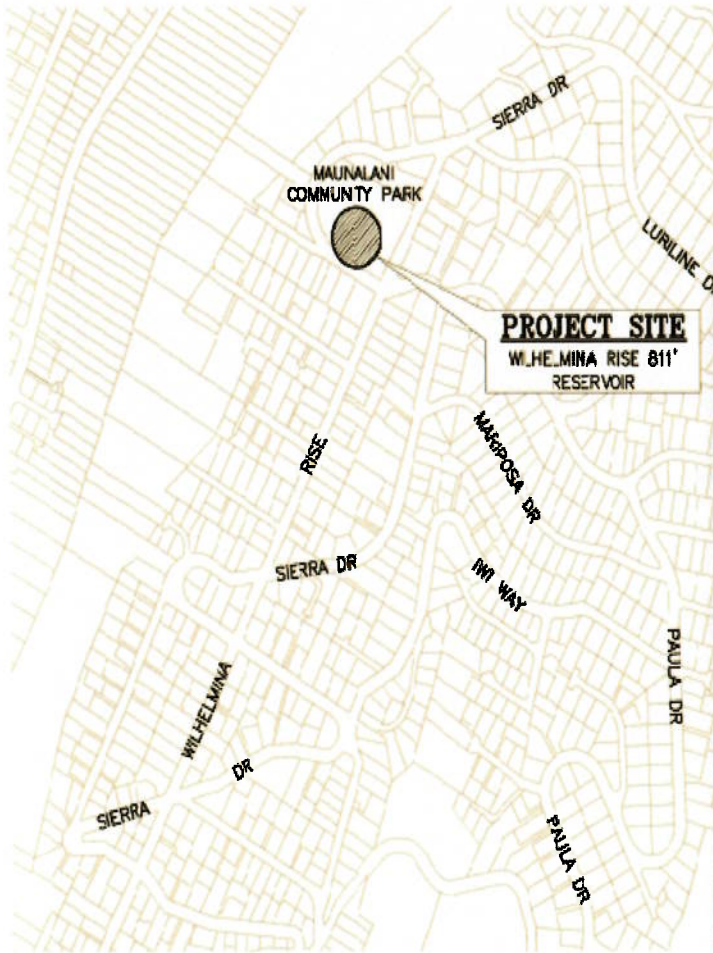
Description: Replace the existing 0.43 MG reservoir and appurtenances.

<u>Appropriation</u>		<u>Present</u>	<u>Proposed</u>
IMPROVEMENT FUND	CONST	0	8,500,000

Reason: This project was originally budgeted in FY 2022-2023, however, a contract award was not made, no funds were encumbered, and funding lapsed.



# WILHELMINA RISE 811' RESERVOIR REPLACEMENT



**LOCATION MAP**  
NOT TO SCALE  
TMK: 3-3-029 : 002



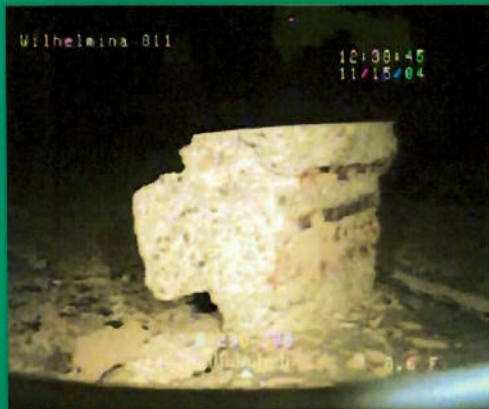
# WILHELMINA RISE 811' RESERVOIR REPLACEMENT

- Supports the BWS' water master plan and 6-year Capital Improvement Program.
- Construction project to replace a 0.43-million-gallon (MG) Reservoir with a new 0.3 MG Reservoir
- Status: In-Progress
  - Project was bid in FY2023, but bids received were \$12.5M over available funds
  - Descoping and redesign of project in process
  - Next Step: Bid Posting & Award
    - Target: Fall 2023

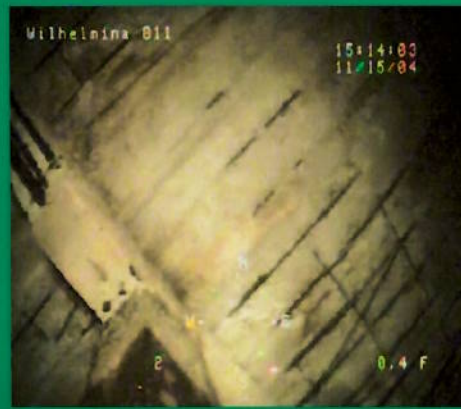


# WILHELMINA RISE 811' RESERVOIR REPLACEMENT

- 2004 Reservoir Condition Assessment
  - Identified significant structure repair to address spalling, exposed reinforcing, and widespread section loss of concrete at the bottom of the roof support beams.
  - Recommendation to replace the reservoir.
  - Photographs from the 2004 inspection report:



Floor Slab. Significant amount of sediment and debris from spalling; Concrete chunks and other debris has fallen from the roof.



Roof Soffit, roof slab support beams – significant spalling and exposed reinforcing. Insufficient concrete cover and section loss of concrete.



Roof Soffit, roof slab support beams – significant spalling and exposed reinforcing. Insufficient concrete cover and section loss of concrete.



Significant spalling and exposed reinforcing in roof slab support beams. Deterioration is severe.





# WILHELMINA RISE 811' RESERVOIR REPLACEMENT

## FY2024 PLANS – REBID REVISED PROJECT

- Project to be repackaged by separating the reservoir from the booster station improvements. **We will pursue replacement of the reservoir only.**
  - The improvements to the booster station (pumps and electrical components, fencing and control building) will be programmed in the future, when funding is available.
- Revised rough order of magnitude for the reservoir only; including excavation, hazardous material handling, temporary access road, reduced piping, partial demolition of the existing tank, temporary tank, associated appurtenances **reduces the project construction cost to approximately \$8.5M.**



# 1. INCREASE APPROPRIATIONS (CIP) BY \$10,630,000

Item No. 42. DLNR WINDWARD EXPLORATORY WELL STATE WELL NUMBER (3-2429-002)

Description: 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.

<u>Appropriation</u>		<u>Present</u>	<u>Proposed</u>
SPECIAL EXPENDIBLE FUND	P&E	0	550,000

Reason: This project was originally budgeted in FY 2022-2023, however, a contract award was not made, no funds were encumbered, and funding lapsed. Please note that the title of this project was formerly listed as “Item No. 44 Hawaii State Hospital Well Test” in the FY 2022-2023 budget. The title is now revised to reflect the State Well Number and avoid confusion with another well named State Hospital Well.



# DLNR WINDWARD EXPLORATORY WELL STATE WELL NUMBER (3-2429-002)



# DLNR WINDWARD EXPLORATORY WELL STATE WELL NUMBER (3-2429-002)

- Exploration and development of new sources in the Windward 500 system are required in response to:
  - The reduction of water permitted to be drawn from Haiku Tunnel (per the Commission on Water Resource Management).



# 1. INCREASE APPROPRIATIONS (CIP) BY \$10,630,000

## Item No. 43. BWS WATER MASTER PLAN UPDATE

Description: Update the BWS water master plan for the capacity expansion and repair and replacement of BWS water system and facilities, pumping optimization, resource protection, conservation, and development of a long-range capital improvement program and financial plan with public outreach.

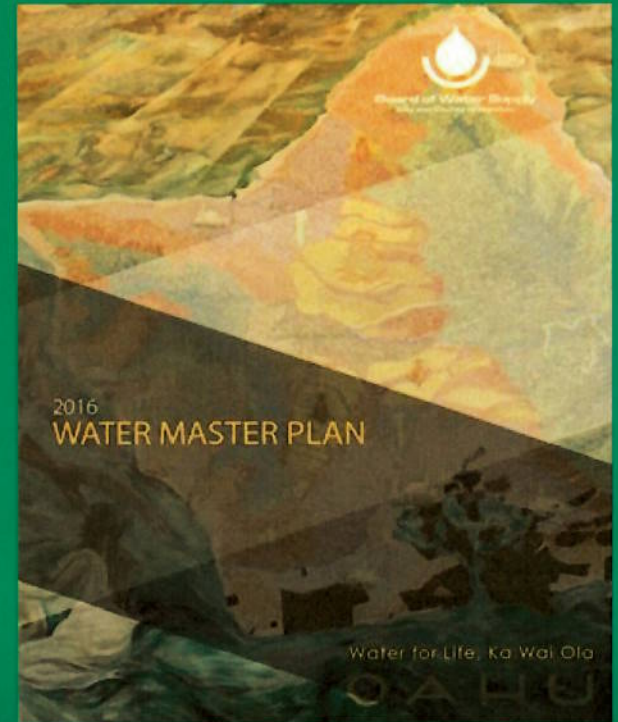
<u>Appropriation</u>		<u>Present</u>	<u>Proposed</u>
OPERATING FUND	P&E	0	1,000,000

Reason: With significant priority shifts, in response to new and emerging threats, the department feels an update to the BWS Water Master Plan is prudent.



# BWS WATER MASTER PLAN UPDATE

- In 2016, BWS developed the Water Master Plan (WMP), a comprehensive program that looks ahead 30 years to evaluate the entire water system, quantify future demands and source options, identify necessary improvements, and balance needs and costs of providing water to residents and visitors.
- The WMP provides the foundation for prioritizing Capital Improvement Program (CIP) projects and identifying a sustainable financial program.
- The BWS Board of Directors (Board) adopted the WMP as the comprehensive "living" document for future water system improvements.
- An update to the plan is required to reflect current priorities and financial constraints.



## 2. DECREASE APPROPRIATIONS (CIP) BY \$580,000

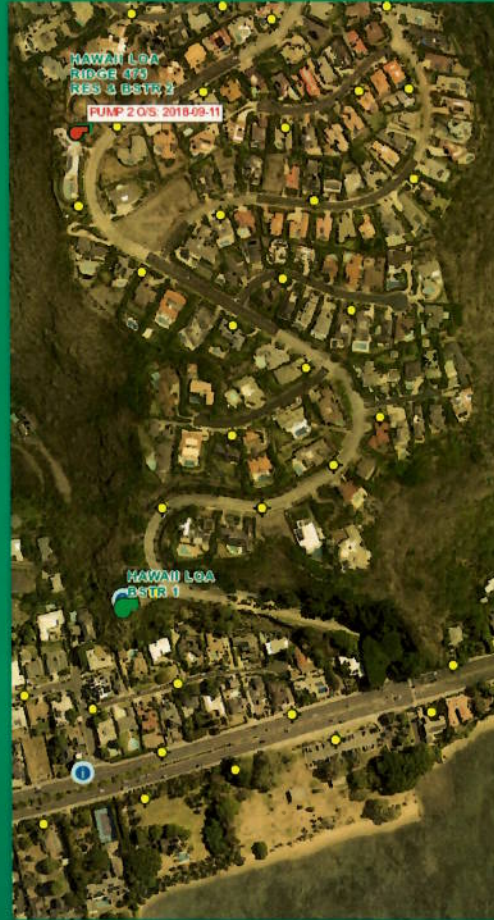
Item No. 8. HAWAII LOA BOOSTER NO. 1 PUMP AND MCC

Description: Install pump and MCC replacement

<u>Appropriation</u> IMPROVEMENT FUND	P&E	<u>Present</u> 580,000	<u>Proposed</u> 0
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Reason: This project is deferred to a future fiscal year. More time is needed to complete the Hawaii Loa Booster No. 2 project and ensure water service to the community.







### 3. INCREASE THE CIP CONSTRUCTION COST INDEX ACCOUNT

Add \$1,215,976 to the CIP Construction Cost Index Account:

<u>Appropriation</u>	<u>Present</u>	<u>Proposed</u>
IMPROVEMENT FUND	4,250,000	5,100,000
EXTRAMURAL FUND	0	365,976

Reason: Additional ARPA (Extramural) funding being added to the contingency account for the Monsarrat Avenue Water System Improvements project awarded in FY2023 and contingency for Project Item No. 41 Wilhelmina Rise 811 Reservoir Replacement is being added (Improvement Fund).



# BUDGET AMENDMENT SUMMARY

## Resolution 966, 2023

FY 2024 CIP Budget (as Adopted)	\$212,646,000
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## Resolution 970, 2023

FY 2024 – Amendment No. 1	
Projects – Added	+\$10,630,000
Projects – Deleted	(\$ 580,000)
Construction Cost Index Account – Improvement	+\$ 850,000
Construction Cost Index Account – Extramural	+\$ 365,976
FY 2024 CIP Budget (as Amended)	<u>\$223,911,976</u>





# Mahalo!

## BOARD OF WATER SUPPLY

Revisions to the Fiscal Year 2024 Capital  
Improvement Program Budget

August 28, 2023

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

**REGULAR MEETING**

**APPROVAL OF MINUTES**

Approval of the Amended Minutes of the Regular Meeting Held on June 26, 2023.

**MOTION TO APPROVE**

Max Sword and Gene Albano motioned and seconded, respectively to approve the Amended Minutes of the Regular Meeting Held on June 26, 2023.

Ms. Cruz-Achiu conducted a roll call vote: Board Member Bryan Andaya, aye; Board Member Max Sword, Aye; Board Member Gene Albano, aye; and Chair Nā'ālehu Anthony, aye. Vice Chair Kapua Sproat, Board Member Jonathan Kaneshiro, and Board Member Edwin Sniffen were absent.

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

THE AMENDED MINUTES OF THE REGULAR MEETING HELD ON JUNE 26, 2023, WERE APPROVED AT THE AUGUST 28, 2023, BOARD MEETING			
	AYE	NO	COMMENT
NĀ'ĀLEHU ANTHONY	X		
KAPUA SPROAT			ABSENT
BRYAN P. ANDAYA	X		
MAX J. SWORD	X		
JONATHAN KANESHIRO			ABSENT
EDWIN H. SNIFFEN			ABSENT
GENE C. ALBANO	X		

**APPROVAL OF MINUTES**

Approval of the Minutes of the Regular Meeting Held on July 24, 2023.

**MOTION TO APPROVE**

Gene Albano and Max Sword motioned and seconded, respectively, to approve the Minutes of the Regular Meeting Held on July 24, 2023.

Ms. Cruz-Achiu conducted a roll call vote: Board Member Bryan Andaya, aye; Board Member Max Sword, Aye; Board Member Gene Albano, aye; and Chair Nā'ālehu Anthony, aye. Vice Chair Kapua Sproat, Board Member Jonathan Kaneshiro, and Board Member Edwin Sniffen were absent.

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

THE MINUTES OF THE REGULAR MEETING HELD ON JULY 24, 2023, WERE APPROVED AT THE AUGUST 28, 2023, BOARD MEETING			
	AYE	NO	COMMENT
NĀ'ĀLEHU ANTHONY	X		
KAPUA SPROAT			ABSENT
BRYAN P. ANDAYA	X		
MAX J. SWORD	X		
JONATHAN KANESHIRO			ABSENT
EDWIN H. SNIFFEN			ABSENT
GENE C. ALBANO	X		

“August 28, 2023

ADOPTION OF  
RESOLUTION NO.  
970, 2023,  
AMENDING THE  
2023-2024  
CAPITAL  
IMPROVEMENT  
PROGRAM  
BUDGET AND  
APPROPRIATING  
FUND THEREFOR  
AND REVISION OF  
THE 2023-2024  
CAPITAL  
IMPROVEMENT  
PROGRAM  
BUDGET –  
AMENDMENT NO. 1

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

Chair and Members:

Subject: Adoption of Resolution No. 970, 2023, Amending the  
2023-2024 Capital Improvement Program Budget and  
Appropriating Fund Therefor and Revision of the 2023  
-2024 Capital Improvement Program Budget –  
Amendment No. 1

We recommend the adoption of the attached Resolution No. 970, 2023,  
which increases the total appropriation for the 2023-2024 Capital  
Improvement Program Budget by \$11,265,976, from \$212,646,000  
to \$223,911,976.

We recommend the adoption of the amended Capital Improvement  
Program Budget for the fiscal year beginning July 1, 2023, and ending  
June 30, 2024, as submitted to the Board on August 28, 2023.

A public hearing to consider the proposed amended budget, as required  
by the City Charter, was held on August 28, 2023. The affidavit attesting  
to the publication of the public hearing notice is attached.

The current Capital Improvement Program (CIP) Budget shall be  
amended as described below:

- 1. Add \$10,630,000.00 in appropriations for the following CIP projects:

Item No. 5. PUMP RENEWAL AND REPLACEMENT

Renewal and replacement of various BWS pumps and plant  
facilities

<u>Appropriation</u>	<u>Present</u>	<u>Proposed</u>
OPERATING FUND CONST	3,500,000	4,080,000

Reason: Additional funds are needed to address supplemental projects  
required to support our water system.

Item No. 41. WILHELMINA RISE 811 RESERVOIR REPLACEMENT

Replace the existing 0.43 MGD reservoir and appurtenances.

<u>Appropriation</u>	<u>Present</u>	<u>Proposed</u>
IMPROVEMENT FUND CONST	0	8,500,000

Reason: This project was originally budgeted in FY 2022-2023, however, a contract award was not made, no funds were encumbered, and funding lapsed.

Item No. 42. DLNR WINDWARD EXPLORATORY WELL STATE WELL NUMBER (3-2429-002)

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.

<u>Appropriation</u>		<u>Present</u>	<u>Proposed</u>
SPECIAL EXPENDABLE FUND	P&E	0	550,000

Reason: This project was originally budgeted in FY 2022-2023, however, a contract award was not made, no funds were encumbered, and funding lapsed. Please note that the title of this project was formerly listed as "Item No. 44 Hawaii State Hospital Well Test" in the FY 2022-2023 budget. The title is now revised to reflect the State Well Number and avoid confusion with another well named State Hospital Well.

Item No. 43. BWS WATER MASTER PLAN UPDATE

Update the BWS water master plan for the capacity expansion and repair and replacement of BWS water system and facilities, pumping optimization, resource protection, conservation, and development of a long range capital improvement program and financial plan with public outreach.

<u>Appropriation</u>		<u>Present</u>	<u>Proposed</u>
OPERATING FUND	P&E	0	1,000,000

Reason: This project is a new project to update the BWS Water Master Plan.

2. Delete \$580,000 in appropriations for the following CIP project:

Item No. 8. HAWAII LOA BOOSTER NO. 1 PUMP AND MCC  
Install pump and MCC replacement

<u>Appropriation</u>		<u>Present</u>	<u>Proposed</u>
IMPROVEMENT FUND	P&E	580,000	0

Reason: This project is deferred to a future fiscal year. More time is needed to complete the Hawaii Loa Booster No. 2 project and ensure water service to the community.

3. Add \$1,215,976 to the Construction Cost Index Account:

<u>Appropriation</u>	<u>Present</u>	<u>Proposed</u>
IMPROVEMENT FUND	4,250,000	5,100,000
EXTRAMURAL FUND	0	365,976

Reason: Additional ARPA (Extramural) funding being added to the contingency account for the Monsarrat Avenue Water System Improvements project awarded in FY2023 and contingency for Project Item No. 41 Wilhelmina Rise 811 Reservoir Replacement is being added (Improvement Fund).

The following is a summarization of the FY 2023-2024 CIP Budget Amendment No. 1:

Resolution 966, 2023

FY 2024 CIP Budget (as Adopted)	\$212,646,000
---------------------------------	---------------

Resolution 970, 2023

FY 2024 – Amendment No. 1	
Projects – Added	+\$10,630,000
Projects – Deleted	(\$ 580,000)
Construction Cost Index Account – Improvement	+\$ 850,000
Construction Cost Index Account – Extramural	<u>+\$ 365,976</u>
FY 2024 CIP Budget (as Amended)	<u>\$223,911,976</u>

Upon approval, the appropriate pages of the current CIP budget will be revised for distribution.

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.

\*\*Note: the Materials as posted with the Meeting Agenda on August 22, 2023 contained errors on Page 16 of the PowerPoint Presentation and Page 3 of the Letter to the Board regarding “Adoption of Resolution No. 970, 2023 Amending the 2023-2024 Capital Improvement Program Budget and Appropriating Funds Therefor and Revision of the 2023-2024 Capital Improvement Program Budget – Amendment No. 1”, as related to



the information presented about the Construction Cost Index Account. The correct figures were reflected in the resolution that was voted upon and approved at the August 28, 2023, Board Meeting.

**MOTION  
TO APPROVE**

Max Sword and Gene Albano motioned and seconded, respectively, to approve the Adoption of Resolution No. 970, 2023, Amending the 2023-2024 Capital Improvement Program Budget and Appropriating Funds Therefor and Revision of the 2023-2024 Capital Improvement Program Budget – Amendment No. 1.

Ms. Cruz-Achui conducted a roll call vote: Board Member Bryan Andaya, aye; Board Member Max Sword, Aye; Board Member Gene Albano, aye; and Chair Nā’ālehu Anthony, aye. Vice Chair Kapua Sproat, Board Member Jonathan Kaneshiro, and Board Member Edwin Sniffen were absent.

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

ADOPTION OF RESOLUTION NO. 970, 2023, AMENDING THE 2023-2024 CAPITAL IMPROVEMENT PROGRAM BUDGET AND APPROPRIATING FUNDS THEREFOR AND REVISION OF THE 2023-2024 CAPITAL IMPROVEMENT PROGRAM BUDGET – AMENDMENT NO. 1 WAS ADOPTED ON AUGUST 28, 2023			
	AYE	NO	COMMENT
NĀ’ĀLEHU ANTHONY	X		
KAPUA SPROAT			ABSENT
BRYAN P. ANDAYA	X		
MAX J. SWORD	X		
JONATHAN KANESHIRO			ABSENT
EDWIN H. SNIFFEN			ABSENT
GENE C. ALBANO	X		

BOARD OF WATER SUPPLY  
CITY AND COUNTY OF HONOLULU

RESOLUTION NO. 970, 2023

**RESOLUTION ADOPTING THE AMENDED CAPITAL IMPROVEMENT PROGRAM  
BUDGET FOR FISCAL YEAR 2024 AND APPROPRIATING FUNDS THEREFOR**

BE IT RESOLVED that the sum of THIRTY-SIX MILLION TWO HUNDRED SEVENTY-SIX THOUSAND DOLLARS (\$36,276,000) be and the same is hereby appropriated out of all monies placed to the credit of the Operating Fund, the sum of THIRTY-NINE MILLION THREE HUNDRED EIGHTY THOUSAND DOLLARS (\$39,380,000) be and the same is hereby appropriated out of all monies placed to the credit of the State Revolving Fund, the sum of FORTY-ONE MILLION THREE HUNDRED THOUSAND DOLLARS (\$41,300,000) be and the same is hereby appropriated out of all monies placed to the credit of the Special Expendable Fund, the sum of FIFTY-NINE MILLION ONE HUNDRED EIGHTY THOUSAND DOLLARS (\$59,180,000) be and the same is hereby appropriated out of all monies placed to the credit of the Improvement Fund, and the sum of FORTY-SEVEN MILLION SEVEN HUNDRED SEVENTY-FIVE THOUSAND NINE HUNDRED SEVENTY-SIX DOLLARS (\$47,775,976) be and the same is hereby appropriated out of all monies placed to the credit of the Extramural Fund for a total of TWO HUNDRED TWENTY-THREE MILLION NINE HUNDRED ELEVEN THOUSAND NINE HUNDRED SEVENTY-SIX DOLLARS (\$223,911,976) for expenditures of the Board of Water Supply Capital Improvement Program Budget for the fiscal year beginning July 1, 2023 and ending June 30, 2024, as follows:

CAPITAL IMPROVEMENT PROGRAM BUDGET

OPERATING FUND.....	\$ 36,276,000
STATE REVOLVING FUND.....	\$ 39,380,000
SPECIAL EXPENDABLE FUND.....	\$ 41,300,000
IMPROVEMENT FUND.....	\$ 59,180,000
EXTRAMURAL FUND.....	\$ 47,775,976
TOTAL.....	\$ 223,911,976

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:

  
NĀ'ĀLEHU ANTHONY  
Chair

Honolulu, Hawaii  
August 28, 2023

ADOPTION OF RESOLUTION NO. 970, 2023, AMENDING THE 2023-2024 CAPITAL IMPROVEMENT PROGRAM BUDGET AND APPROPRIATING FUNDS THEREFOR AND REVISION OF THE 2023-2024 CAPITAL IMPROVEMENT PROGRAM BUDGET – AMENDMENT NO. 1 WAS ADOPTED ON AUGUST 28, 2023			
	AYE	NO	COMMENT
NĀ'ĀLEHU ANTHONY	X		
KAPUA SPROAT			ABSENT
BRYAN P. ANDAYA	X		
MAX J. SWORD	X		
JONATHAN KANESHIRO			ABSENT
EDWIN H. SNIFFEN			ABSENT
GENE C. ALBANO	X		

AFFIDAVIT OF PUBLICATION

IN THE MATTER OF
NOTICE OF PUBLIC HEARING

STATE OF HAWAII
)
) SS.
City and County of Honolulu
)

Doc. Date: AUG 17 2023 # Pages: 1
Notary Name: COLLEEN E. SORANAKA First Judicial Circuit
Doc. Description: Affidavit of Publication
Notary Signature: [Signature] Date: AUG 17 2023
Notary Public Seal: COLLEEN E. SORANAKA, No. 90-263, STATE OF HAWAII

Kimberly Masu 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

Table with 2 columns: Publication Name and Times on. Rows include Honolulu Star-Advertiser (1), MidWeek (0), The Garden Island (0), Hawaii Tribune-Herald (0), West Hawaii Today (0), and Other Publications (0).

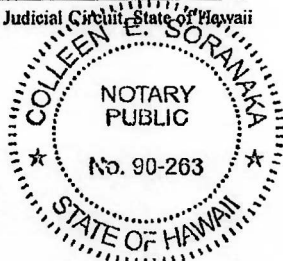
And that affiant is not a party to or in any way interested in the above entitled matter.

[Signature]
Kimberly Masu

Subscribed to and sworn before me this 17th day of August A.D. 2023

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

Ad # 0001425868



NOTICE OF PUBLIC HEARING

NOTICE IS HEREBY GIVEN that the BOARD OF WATER SUPPLY (BWS), CITY AND COUNTY OF HONOLULU, will hold a PUBLIC HEARING in the Board Room, Public Service Building, 630 South Beretania Street, on Monday, August 28, 2023, at 2:00 p.m. or soon thereafter, where all interested persons shall be afforded the opportunity of being heard on the adoption of the Proposed Amendment to the Fiscal Year (FY) 2024 Capital Improvement Program Budget of the Board of Water Supply, beginning July 1, 2023 and ending June 30, 2024.

Limited seating will be available for in-person testifiers in the Boardroom. The public may also view the livestream of the meeting from the lobby of the Board of Water Supply, Public Service Building, 630 S. Beretania St., Honolulu, HI 96843. TESTIMONY CAN BE SUBMITTED AS FOLLOWS:

- Written testimony should include the submitter's address, email address, and phone number. Testimony should be received by Monday, August 28, 2023, at noon.
Oral testimony will be accepted remotely and in person during the meeting.
Zoom registration instructions, as well as participant guidelines, will be sent to the contact information provided.

Testimony is limited to two (2) minutes and shall be presented by the registered speaker only. Testimony submitted in writing or orally, electronically or in person, for use in the meeting process is public information. All testimony will be included as part of the approved meeting minutes at boardofwatersupply.com/boardmeetings.

MATERIALS AVAILABLE FOR INSPECTION

Meeting materials ("board packet" under HRS Section 92-7.5) are accessible at boardofwatersupply.com/boardmeetings.

VIEWING THE MEETING

The meeting will be viewable via live streaming on the BWS website: www.boardofwatersupply.com/live. Video will appear on screen. You may have to click the arrow on video to start it. You may have to unmute audio as muted audio tends to be the default setting.

SPECIAL REQUESTS AND ACCOMMODATIONS

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

Upon request, this notice is available in alternate formats such as large print, Braille, or electronic copy.

BOARD OF WATER SUPPLY
CITY AND COUNTY OF HONOLULU
(SA1425868 8/17/23)

"August 28, 2023

ADOPTION OF  
RESOLUTION NO.  
971, 2023,  
KATHLEEN  
ELLIOTT-PAHINUI,  
2023 MANAGER  
OF THE YEAR

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

Chair and Members:

Subject: Adoption of Resolution No. 971, 2023,  
Kathleen Elliott-Pahinui, 2023 Manager of the Year

We are pleased to announce that the 2023 Manager of the Year for the Board of Water Supply is Ms. Kathleen M. Elliott-Pahinui. She is the Information Officer of the BWS and leads the Communications Office team.

We recommend the adoption of Resolution No. 971, 2023, to honor Ms. Elliott-Pahinui for her outstanding leadership, service, and dedication to the Board of Water Supply.

Respectfully Submitted,

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

Attachment"

DISCUSSION: Ernest Lau, Manager and Chief Engineer, gave the report.

Chair Anthony expressed his appreciation for Manager of the Year, Ms. Kathleen Elliott-Pahinui. He stated that watching the work of Information Officer Ms. Elliott-Pahinui coordinate and take charge of communicating with the public is fantastic.

Ms. Kathleen Elliott-Pahinui extends her gratitude to her entire Communications Office team. She stated that without her entire team's help, she could not do everything on her own.

Manager Lau stated that it was Ms. Elliott-Pahinui who was able to communicate with the public effectively.

MOTION  
TO APPROVE

Max Sword and Gene Albano motioned and seconded, respectively, to approve the Adoption of Resolution No. 971, 2023, Kathleen Elliott-Pahinui, 2023 Manager of the Year.

Ms. Cruz-Achui conducted a roll call vote: Board Member Bryan Andaya, aye; Board Member Max Sword, Aye; Board Member Gene Albano, aye; and Chair Nā'ālehu Anthony, aye. Vice Chair Kapua Sproat, Board Member Jonathan Kaneshiro, and Board Member Edwin Sniffen were absent.

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

ADOPTION OF RESOLUTION NO. 971, 2023, KATHLEEN ELLIOTT-PAHINUI, 2023 MANAGER OF THE YEAR WAS ADOPTED ON AUGUST 28, 2023			
	AYE	NO	COMMENT
NĀ'ĀLEHU ANTHONY	X		
KAPUA SPROAT			ABSENT
BRYAN P. ANDAYA	X		
MAX J. SWORD	X		
JONATHAN KANESHIRO			ABSENT
EDWIN H. SNIFFEN			ABSENT
GENE C. ALBANO	X		



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

**RESOLUTION NO. 971, 2023**

**KATHLEEN ELLIOTT-PAHINUI  
2023 MANAGER OF THE YEAR**

**WHEREAS**, KATHLEEN M. ELLIOTT-PAHINUI, Public Information Officer who oversees the Communications Office (CO), has been selected as the Board of Water Supply (BWS) Manager of the Year for 2023 and

**WHEREAS**, since joining the BWS in July 2016, MS. ELLIOTT-PAHINUI has worked diligently to develop innovative programs and services to support the BWS's mission and meet the evolving communications needs of this Board and Department, which supplies water to one million people of our island home; and

**WHEREAS**, through these programs and services, MS. ELLIOTT-PAHINUI has, among other accomplishments, enabled the BWS to successfully address wide-spread fears, concerns, and outrage of Oahu water users after the unprecedented 2021 Navy Red Hill Fuel Leak; convert this Board's monthly meeting format from in-person to hybrid during the COVID-19 pandemic; obtain for this Board valuable information and input on Oahu's water future from two stakeholder advisory groups she coordinates; and partner with Hawaii Community Foundation for a Hawaiian-culture-based educational campaign at state airports to inspire residents and tourists to conserve our islands' precious water resource; and

**WHEREAS**, KATHLEEN ELLIOTT-PAHINUI personifies attributes that organizations and employees desire in their leaders as she has cultivated a strong and cohesive Communications team through astute and supportive leadership that builds on their strengths as she encourages them to improve and expand their skills, embrace key communications tools; achieve on-the-job excellence –in fact, four Communications team members were named BWS Employee of the Year in the last four years; and develop their futures as leaders in government communications; and

**WHEREAS**, in addition to her BWS responsibilities, MS. ELLIOTT-PAHINUI serves her community as North Shore Neighborhood Board Chair, leading monthly public meetings that promote civic engagement to identify and help resolve concerns in that district; and

**WHEREAS**, MS. ELLIOTT-PAHINUI's selection as the 2023 Board of Water Supply Manager of the Year and her nomination to the City Manager of the Year Recognition Ceremony has brought pride and honor to the BWS and all her family and friends; now, therefore

**BE IT RESOLVED** by the Members of the Board of Water Supply, City and County of Honolulu, that we hereby do express to KATHLEEN M. ELLIOTT-PAHINUI our heartfelt appreciation for her outstanding service to the Department and to the City and County of Honolulu; and


**BE IT FURTHER RESOLVED** that the Members of this Board express our sincere congratulations upon her selection as the Board of Water Supply Manager of the Year for 2023; and

**BE IT FINALLY RESOLVED** that this Resolution be presented to KATHLEEN M. ELLIOTT-PAHINUI with our warmest aloha and best wishes for all her future endeavors.



Resolution No. 971, 2023

Adopted this 28<sup>th</sup> day of August 2023  
Board of Water Supply, Honolulu, Hawaii

  
\_\_\_\_\_  
NA'ALEHU ANTHONY  
Chair of the Board



"August 28, 2023

ADOPTION OF  
RESOLUTION NO.  
972, 2023,  
SHERI MIKAMI  
2023 EMPLOYEE  
OF THE YEAR

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

Chair and Members:

Subject: Adoption of Resolution No. 972, 2023,  
Sheri Mikami, 2023 Employee of the Year

We are pleased to announce that a 2023 Employee of the Year for the Board of Water Supply is Ms. Sheri Mikami. She is a Community Relations Specialist II in the Communications Office.

We recommend the adoption of Resolution No. 972, 2023, to honor Ms. Sheri Mikami for his outstanding service, contributions, and dedication to the Board of Water Supply.

Respectfully Submitted,

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

Attachment"

DISCUSSION:

Ernest Lau, Manager and Chief Engineer, gave the report.

Manager Lau stated that a correction to the resolution, in the second to the last paragraph, should read "BWS Employee of the Year for 2023", not 2022.

Chair Anthony thanked Ms. Sheri Mikami for her service and efforts with the Xeriscape Garden.

Manager Lau thanked Ms. Mikami for coordinating the return of the Xeriscape Garden Plant sale this year and for all her efforts.

MOTION  
TO APPROVE

Gene Albano and Max Sword motioned and seconded, respectively to approve the Adoption of Resolution No. 972, 2023, Sheri Mikami, 2023 Employee of the Year.

Ms. Cruz-Achui conducted a roll call vote: Board Member Bryan Andaya, aye; Board Member Max Sword, Aye; Board Member Gene Albano, aye; and Chair Nā'ālehu Anthony, aye. Vice Chair Kapua Sproat, Board Member Jonathan Kaneshiro, and Board Member Edwin Sniffen were absent.

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

ADOPTION OF RESOLUTION NO. 972, 2023, SHERI MIKAMI, 2023 EMPLOYEE OF THE YEAR WAS ADOPTED ON AUGUST 28, 2023

	AYE	NO	COMMENT
NĀ'ĀLEHU ANTHONY	X		
KAPUA SPROAT			ABSENT
BRYAN P. ANDAYA	X		
MAX J. SWORD	X		
JONATHAN KANESHIRO			ABSENT
EDWIN H. SNIFFEN			ABSENT
GENE C. ALBANO	X		



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

**RESOLUTION NO. 972, 2023**

**SHERI MIKAMI  
2023 EMPLOYEE OF THE YEAR**

**WHEREAS**, SHERI MIKAMI, a Community Relations Specialist II in the Communications Office, has been a hardworking, dependable, and exceptional employee since joining the Board of Water Supply (BWS) in April 2015 and has been selected as the Department's 2023 Employee of the Year; and

**WHEREAS**, MS. MIKAMI is recognized for her wealth of knowledge, efficiency, and productive work ethic in managing the Board of Water Supply's Halawa Xeriscape Garden (HXG), which promotes water conservation through the principles of xeriscaping; and

**WHEREAS**, MS. MIKAMI furthers her education and understanding by maintaining her Master Gardener's Certification and applies this knowledge to her work at the HXG to enhance its offerings to the community; and

**WHEREAS**, MS. MIKAMI, in just a short time, expanded and created new xeriscape workshops to appeal to a larger wider audience, revamped the popular Annual HXG Easter Egg Hunt, making it more educational for the keiki, and invited new speakers to educate the community on the importance of xeriscaping, and

**WHEREAS**, MS. MIKAMI is particularly adept at identifying innovative solutions, as was evident during the pandemic when she successfully and seamlessly offered garden workshop videos online when in-person gatherings were prohibited. This pivot helped maintain a positive presence within the community; and

**WHEREAS**, MS. MIKAMI'S takes the lead role in managing the successful Annual HXG Unthirsty Plant Sale, a free, family-friendly event focused on xeriscaping; and

**WHEREAS**, MS. MIKAMI has been selected as a 2023 Board of Water Supply Employee of the Year and will go on to represent the BWS in the upcoming City Employee of the Year Recognition Ceremony, bringing pride and honor to the Department, her family, and friends; now, therefore

**BE IT RESOLVED** by the Members of the Board of Water Supply, City and County of Honolulu, that we do hereby express to SHERI MIKAMI our sincere appreciation for her outstanding service to the Department and to the City and County of Honolulu; and

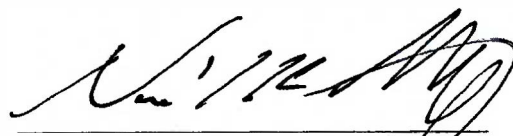
**BE IT FURTHER RESOLVED** that the Members of this Board express to SHERI MIKAMI our sincere congratulations upon her selection as the Board of Water Supply Employee of the Year for 2023; and

**BE IT FINALLY RESOLVED** that this Resolution be presented to MS. MIKAMI with our heartfelt aloha and best wishes for success in all her future endeavors.



Resolution No. 972, 2023

Adopted this 28<sup>th</sup> day of August 2023  
Board of Water Supply, Honolulu, Hawaii

  
NA'ALEHU ANTHONY  
Chair of the Board

"August 28, 2023

ADOPTION OF  
RESOLUTION NO.  
973, 2023,  
ALBERT MAU,  
2023 EMPLOYEE  
OF THE YEAR

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

Chair and Members:

Subject: Adoption of Resolution No. 973, 2023,  
Albert Mau, 2023 Employee of the Year

We are pleased to announce that a 2023 Employee of the Year for the Board of Water Supply is Mr. Albert Mau. He is a Procurement and Specification's Specialist V in the Executive Support Office.

We recommend the adoption of Resolution No. 973, 2023, to honor Mr. Albert Mau for his outstanding service, contributions, and dedication to the Board of Water Supply.

Respectfully Submitted,

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

Attachment"

DISCUSSION: Ernest Lau, Manager and Chief Engineer, gave the report.

Chair Anthony and Manager Lau congratulated Mr. Albert Mau as the 2023 Employee of the Year.

MOTION TO APPROVE Max Sword and Gene Albano motioned and seconded, respectively, to approve the Adoption of Resolution No. 973, 2023, Albert Mau, 2023 Employee of the Year.

Ms. Cruz-Achui conducted a roll call vote: Board Member Max Sword, Aye; Board Member Bryan Andaya, aye; Board Member Gene Albano, aye; and Chair Nā'ālehu Anthony, aye. Vice Chair Kapua Sproat, Board Member Jonathan Kaneshiro, and Board Member Edwin Sniffen were absent.

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

ADOPTION OF RESOLUTION NO. 973, 2023, ALBERT MAU, 2023 EMPLOYEE OF THE YEAR WAS ADOPTED ON AUGUST 28, 2023

	AYE	NO	COMMENT
NĀ'ĀLEHU ANTHONY	X		
KAPUA SPROAT			ABSENT
BRYAN P. ANDAYA	X		
MAX J. SWORD	X		
JONATHAN KANESHIRO			ABSENT
EDWIN H. SNIFFEN			ABSENT
GENE C. ALBANO	X		



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

**RESOLUTION NO. 973, 2023**

**ALBERT MAU  
2023 EMPLOYEE OF THE YEAR**

**WHEREAS**, ALBERT MAU, a Procurement and Specification Specialist V with the Executive Support Office, has been a dedicated and exceptional employee since joining the Board of Water Supply (BWS) in 1989 and was selected as the Department's 2023 Employee of the Year; and

**WHEREAS**, MR. MAU is a model employee who is the foundation of the Procurement Office. He consistently works hard to assist BWS divisions with the procurement of necessary goods, services, and construction needed to ensure the delivery of safe and dependable drinking water to residents now and into the future;

**WHEREAS**, MR. MAU played a major role in developing, supporting, and executing necessary changes for the implementation of the Hawaii eProcurement System and BWS Procurement Portal. Important changes that have modernized the BWS's Procurement Office and enabled the Office to continue operating as usual throughout the COVID-19 pandemic; and

**WHEREAS**, MR. MAU is instrumental in helping the BWS transition to electronic forms and to changes made to purchase requisitions and the purchase order process in the JDE software by facilitating and continuing to hold Webex training sessions for employees; and

**WHEREAS**, MR. MAU is extremely dedicated to keeping up to date with changes to State of Hawaii procurement laws and Administrative Rules and always applies and shares that knowledge with staff, making him the BWS's official go-to person for procurement matters; and

**WHEREAS**, ALBERT MAU has been selected as a 2023 Board of Water Supply Employee of the Year and will go on to represent BWS in the upcoming City Employee of the Year Recognition Ceremony, bringing pride and honor to the Department, his family, and friends; now, therefore

**BE IT RESOLVED** by the Members of the Board of Water Supply, City and County of Honolulu, that we do hereby express to ALBERT MAU our sincere appreciation for his outstanding service to the Department and to the City and County of Honolulu; and

**BE IT FURTHER RESOLVED** that the Members of this Board express to ALBERT MAU our sincere congratulations upon his selection as the Board of Water Supply Employee of the Year for 2023; and

**BE IT FINALLY RESOLVED** that this Resolution be presented to MR. MAU, with our heartfelt aloha and best wishes for success in all his future endeavors.



Resolution No. 973, 2023

Adopted this 28<sup>th</sup> day of August 2023  
Board of Water Supply, Honolulu, Hawaii

  
NA'ALEHU ANTHONY  
Chair of the Board

"August 28, 2023

ADOPTION OF  
RESOLUTION NO.  
974, 2023,  
ACCEPTANCE OF  
GIFT TO THE  
BOARD OF WATER  
SUPPLY FROM  
THE HAWAII  
COMMUNITY  
FOUNDATION TO  
ATTEND THE  
THE US WATER  
ALLIANCE  
ONE WATER  
SUMMIT 2023  
CONFERENCE

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

Chair and Members:

Subject: Adoption of Resolution No. 974, 2023, Acceptance of Gift to the Board of Water Supply from the Hawaii Community Foundation to Attend the US Water Alliance One Water Summit 2023 Conference

We recommend the adoption of the attached Resolution No. 974, 2023, that accepts the proposed gift to the Board of Water Supply (BWS), City and County of Honolulu, in support of the One Water Honolulu Program for integrated climate change adaptation. The Hawaii Community Foundation (HCF) is providing funding for the Manager and Chief Engineer to attend the US Water Alliance One Water Summit 2023 conference in Tucson, Arizona. The total value is estimated to be \$3,500.00 for air, travel, lodging, and registration costs.

The One Water Summit conference brings delegations from One Water programs throughout the US and will include plenary sessions, skills-building institutes, interactive workshops, mobile tours, and networking opportunities with a focus on sustainable, integrated, and inclusive approaches to managing water, our most precious natural resource.

HCF is a tax exempt Hawaii nonprofit corporation and statewide community foundation whose mission is to inspire generosity, advocate for equity, forge connections and invest in community to create a better Hawai'i. HCF created the CHANGE Framework to facilitate a common way of understanding the most critical issues affecting Hawai'i. HCF's theory of change is that only by acting collectively using a common set of data and shared goals can we effectively solve large-scale issues and create a better Hawai'i now and for future generations. HCF is a trusted community partner throughout the State of Hawai'i with more than 100 years of work helping the people of Hawai'i thrive.

In addition, HCF convened and facilitated the Fresh Water Council who created the Hawaii Fresh Water Blueprint which established a statewide 2030 goal of 100 mgd in resilient water through conservation 40 mgd, reuse 30 mgd and recharge 30 mgd. BWS is a member of the Fresh Water Council and has been supporting and working cooperatively with HCF on the implementation of the 2030 goals.

Respectfully Submitted,

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

Attachment”

DISCUSSION: Ernest Lau, Manager and Chief Engineer, gave the report.

Chair Anthony stated given the unprecedented crisis at Red Hill and the water challenges across the country, it is a great opportunity to attend the US Water Alliance One Water Summit 2023 Conference to familiarize, understand, and learn of various water challenges.

MOTION TO APPROVE Max Sword and Gene Albano motioned and seconded, respectively, to approve the Adoption of Resolution No. 974, 2023, Acceptance of Gift to the Board of Water Supply from the Hawaii Community Foundation to Attend the US Water Alliance One Water Summit 2023 Conference.

Ms. Cruz-Achui conducted a roll call vote: Board Member Bryan Andaya, aye; Board Member Max Sword, Aye; Board Member Gene Albano, aye; and Chair Nā’ālehu, aye. Vice Chair Kapua Sproat, Board Member Jonathan Kaneshiro, and Board Member Edwin Sniffen were absent.

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

ADOPTION OF RESOLUTION NO. 974, 2023, ACCEPTANCE OF GIFT TO THE BOARD OF WATER SUPPLY FROM THE HAWAII COMMUNITY FOUNDATION TO ATTEND THE US WATER ALLIANCE ONE WATER SUMMIT 2023 CONFERENCE WAS ADOPTED ON AUGUST 28, 2023			
	AYE	NO	COMMENT
NĀ’ĀLEHU ANTHONY	X		
KAPUA SPROAT			ABSENT
BRYAN P. ANDAYA	X		
MAX J. SWORD	X		
JONATHAN KANESHIRO			ABSENT
EDWIN H. SNIFFEN			ABSENT
GENE C. ALBANO	X		



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

**RESOLUTION NO. 974, 2023**

**ACCEPTANCE OF GIFTS TO THE BOARD OF WATER SUPPLY  
FROM HAWAII COMMUNITY FOUNDATION IN SUPPORT OF THE  
ONE WATER HONOLULU PROGRAM**

WHEREAS, Ordinance 20-47 codified in Chapter 2, ROH, established the One Water Panel, a collaboration of City agencies tasked with climate change adaptation. The Board of Water Supply (BWS) is a member of the collaboration called One Water Honolulu and along with the Office of Climate Change, Sustainability and Resiliency provided the foundational planning and support for the establishment of the One Water ordinance and the emerging One Water plan. Climate change and sea level rise impacts to water resources and coastal infrastructure can only be resolved if agencies work together; and

WHEREAS, the Hawaii Community Foundation (HCF) is providing funding for a BWS representative to attend the US Water Alliance One Water Summit 2023 conference in Tucson, Arizona as a learning, knowledge, and networking opportunity with other US One Water programs. The total estimated value is \$3,500.00; and

WHEREAS, the One Water Summit conference brings delegations from One Water programs throughout the United States with a focus on sustainable, integrated, and inclusive approaches to managing water, our most precious natural resource.; and

WHEREAS, HCF is a tax exempt Hawaii nonprofit corporation and statewide community foundation whose mission is to inspire generosity, advocate for equity, forge connections and invest in the community to create a better Hawai'i; and

WHEREAS, HCF convened and facilitated the Fresh Water Council who created the Hawaii Fresh Water Blueprint which established a statewide 2030 goal of 100 mgd in resilient water through conservation 40 mgd, reuse 30 mgd and recharge 30 mgd. BWS is a member of the Fresh Water Council and has been supporting and working cooperatively with HCF on the implementation of the 2030 goals; and

WHEREAS, the BWS may accept gifts to the Department as long as it does not provide special consideration, treatment, advantage, privilege, or exemption for or coerces a potential donor; and

BE IT RESOLVED that the Board of Water Supply hereby accepts the gift and directs the Manager and Chief Engineer, or his delegate, to accept and thank HCF for their support.

ADOPTED:

  
NĀ'ĀLEHU ANTHONY  
Chair

Honolulu, Hawaii  
August 28, 2023

ADOPTION OF RESOLUTION NO. 974, 2023, ACCEPTANCE OF GIFT TO THE BOARD OF WATER SUPPLY FROM THE HAWAII COMMUNITY FOUNDATION TO ATTEND THE US WATER ALLIANCE ONE WATER SUMMIT 2023 CONFERENCE WAS ADOPTED ON AUGUST 28, 2023			
	AYE	NO	COMMENT
NĀ'ĀLEHU ANTHONY	X		
KAPUA SPROAT			ABSENT
BRYAN P. ANDAYA	X		
MAX J. SWORD	X		
JONATHAN KANESHIRO			ABSENT
EDWIN H. SNIFFEN			ABSENT
GENE C. ALBANO	X		



## HAWAII COMMUNITY FOUNDATION

July 19, 2023

Ernest Lau, PE  
Manager & Chief Engineer  
Board of Water Supply  
630 South Beretania Street  
Honolulu, Hawaii 96843

Aloha Ernie,

We are excited to invite you to be part of the Hawaii One Water Summit Delegation November 14-16th in Tucson.

Join hundreds of top water leaders in Tucson, AZ, for One Water Summit 2023. It is the premier national conference focused on sustainable, integrated, and inclusive approaches to managing water—our most precious natural resource.

Hawaii has hosted a delegation for the past several years and it has been an invaluable experience to come up with new ideas and solutions as well as connect with local and national partners.

Hawaii Community Foundation will be sponsoring a portion of the Hawaii delegation this year including your registration, flights, hotel accommodations and ground transportation. The cost estimate is \$3,500 if you have to document or ask permission to receive the sponsorship.

If you could respond by July 31st if you can join, that would be great to get everything reserved. Let me know if you have any questions.

Aloha,

Dana Okano, PhD, AICP  
Program Director

ITEM FOR INFORMATION NO. 1

"August 28, 2023

UPDATE ON  
THE BOARD OF  
WATER SUPPLY'S  
RESPONSE TO  
THE POTENTIAL  
IMPACTS OF  
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 the Board of Water Supply's Response to the  
Potential Impacts of the Red Hill Fuel Contamination

Joyce Lin, Civil Engineer IV, Office of the Manager and Chief Engineer,  
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:

Erwin Kawata, Deputy Manager, gave the report. There were no  
comments or discussion.



# AUGUST 2023 RED HILL UPDATES

August 28, 2023

Joyce Lin

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

# RECENT EVENTS

- Community Representative Initiative (CRI) Meeting
- Met with Okinawa Prefecture Governor Mr. Denny Tamaki
- Met with Department of Health
- Met with ASN-EIE Ms. Meredith Berger
- Red Hill Remediation Roundtable

## Community Representation Initiative Summary of Scoping Process Fact Sheet



### About the Scoping Process

- On July 27 we met to discuss options for forming the Community Representation Initiative with members of the community and EPA
- During the meeting, community leaders were selected to help further inform the Community Representation Initiative nomination and selection process
- A questionnaire was also distributed to share feedback and was open online through July 30
- Through these methods, critical input was collected on the nomination and selection process



60+  
Responses to  
Questionnaire



70+  
In Person Scoping  
Meeting Participants



Discussions with  
Stakeholders

### What we Heard from you

#### Diverse Panel of Delegates

A common theme shared was that CRI members should be delegates representing multiple community groups such as:

- Affected Communities
- Native Hawaiians
- Community Based Organizations

Other popular suggestions:

- Set up CRI quickly
- Members of the CRI should have access to experts for consultation
- Voting should be done online

#### EPA's Role

EPA's role is to help facilitate the formation of the CRI and ensure the members have information needed to help develop the group. Once the group is formed, the Navy will coordinate future meetings.

Based on the terms of the 2023 Consent Order, that requires CRI formation, there will be 10 members of the Community Representation Initiative.

### Schedule of Nomination & Voting Process

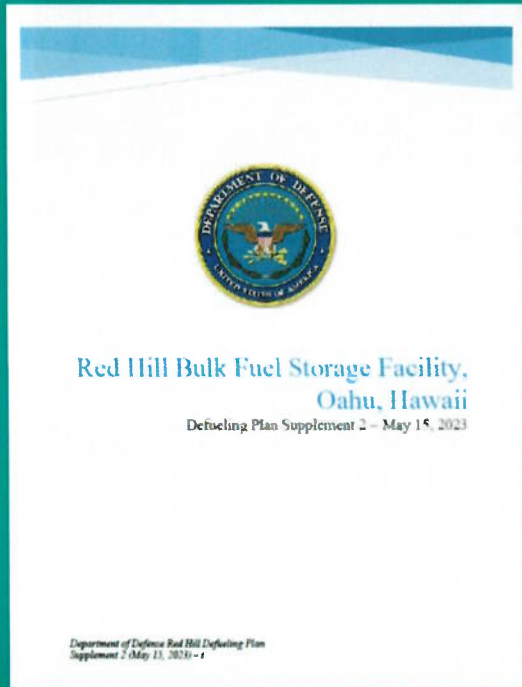
Dates	Community Representation Initiative Formation Activities
Aug 15	More information on nomination process based on feedback gathered will be posted on <a href="http://www.epa.gov/red-hill/cri">www.epa.gov/red-hill/cri</a>
Mid-Aug.	Nominations will be received through Mid-August. If nominated, submit bios to EPA. Members of the public can review posted bios on EPA website.
Late Aug.	Selection Process through online voting
Sept.	First Community Representation Initiative Meeting with EPA and Navy



For more information, visit:  
<https://www.epa.gov/red-hill/cri>



# DEFUELING the Red Hill Bulk Fuel Storage Facility



## Underground Surge Tanks defueled

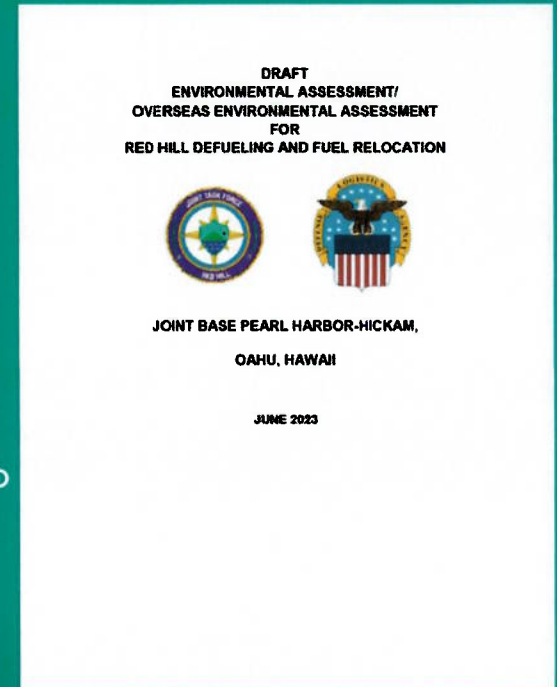
- July 17 – July 28, 2023
- 480,000 gallons of fuel relocated to aboveground tanks for regular military operations.

## Defueling Plan Supplement 2

- Defueling Timeline:  
October 16, 2023 – January 19, 2024
- 99.85 % of fuel will be removed
- About 100,000 - 400,000 gallons of fuel to remain
- Conditionally approved by EPA and DOH

## Environmental Assessment for Red Hill Defueling and Fuel Relocation

- Public Comment period ended June 30<sup>th</sup>





Next 90 Days

August 2023

September 2023

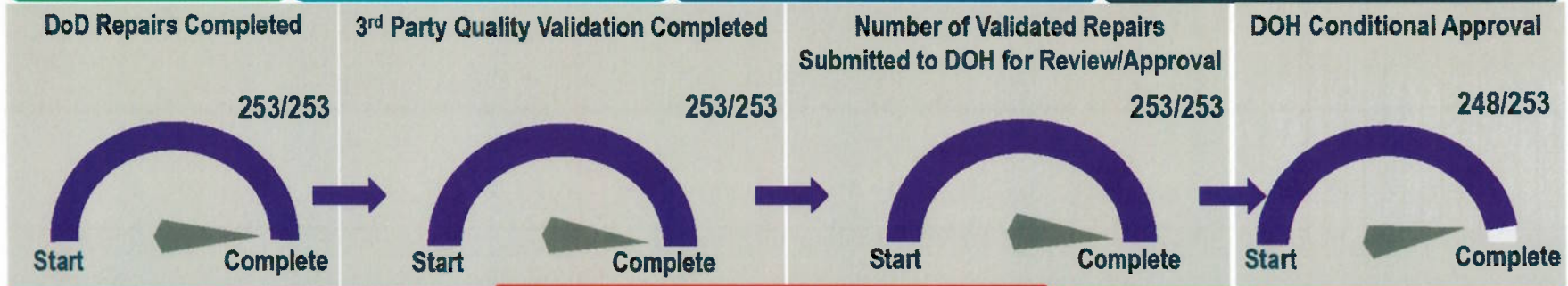
October 2023

### Key Events

August 13: Repairs Approval by DOH  
 August 16: Response Drill  
 August 22: DISF<sup>1</sup> Meeting  
 August 24: House Special Committee Brief  
 August 28-TBD: Repacking Pipelines  
 August 31: NEPA<sup>1</sup> Complete

September 1-30: Final Preparations for Defueling (Regulatory Approvals, Safety Reviews, Rehearsals, Etc.)  
 September 19: HNL Dept of Emergency Management Meeting

October 10: Defueling Final Review  
 October 16: Defueling Begins  
 October 17: DLNR Commission on Water Resource Management  
 October 25: DISF Meeting



### Roving Security-Fire Watch Training

Training includes early detection, immediate notification of an incident, and rapid response in case of an event. Click the video to learn more.



Source: Hawaii News Now

### Repacking the Pipelines

Pipeline repacking removes air and enables the fuel to flow uniformly during defueling. It is a preparatory stage of defueling and provides an opportunity to verify system functionality.

For more about Repacking, click on the video thumbnail here:



### Dashboard Legend <sup>1</sup>

DISF: Defueling Information Sharing Forum  
 NEPA: National Environmental Policy Act

Joint Task Force – Red Hill  
 Defueling Dashboard  
 As of August 10, 2023  
 Subject to Revision



**JTF-RH is currently ON PLAN to begin gravity defueling on October 16, 2023**

<https://www.pacom.mil/JTF-Red-Hill/Joint-Task-Force-Red-Hill>

# CLOSURE of Red Hill Bulk Fuel Storage Facility

## Closure Alternatives:

### 1: Closure In-Place

### 2: Closure In-Place and Non-Fuel Reuse

- Nakupuna Companies, LLC conducting non-fuel reuse survey. Final report due end of calendar year.

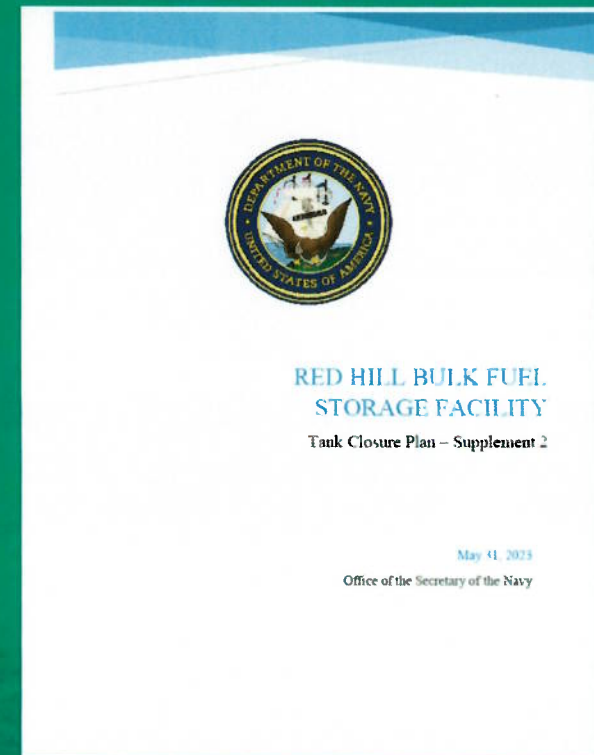
### 3: Closure with Fill

### 4: Remove Tank Steel Liner, and Fill

## Tank Closure Plan -Supplemental 2

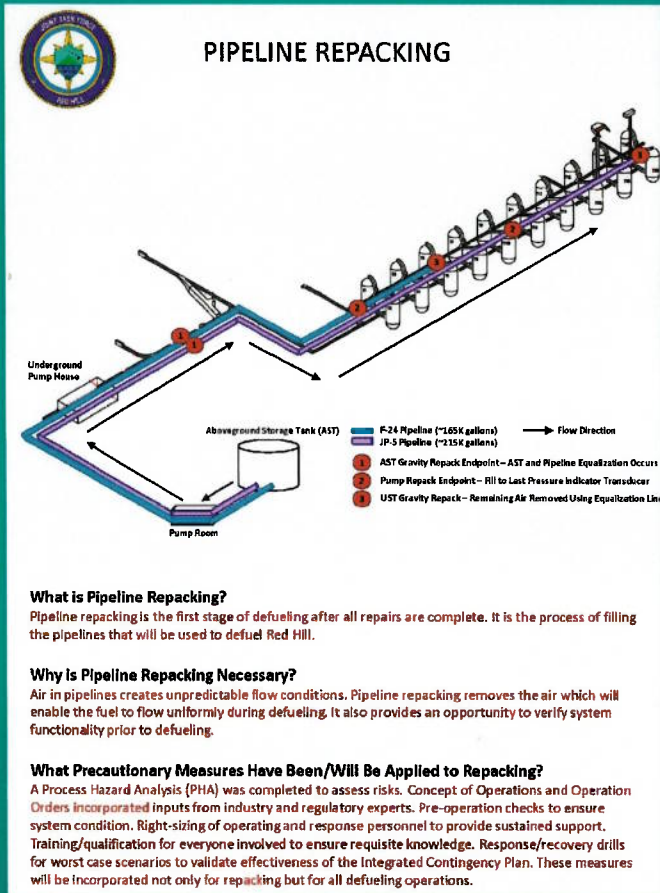
- Clean and close 20 fuel tanks, and dismantle the 3 fuel pipelines between tanks and Pearl Harbor
- **3+ years to complete**

Tank Closure: August 2027





# UPCOMING EVENTS



Source: Joint Task Force -Red Hill

## Repacking of Red Hill Fuel Lines

### September:

- First Community Representation Initiative Meeting

### October:

- Subject Matter Expert Workshop
- Red Hill Remediation Roundtable

### November:

- Fuel Tank Advisory Committee Meeting





# MAHALO!

August 2023 Red Hill Updates

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

ITEM FOR INFORMATION NO. 2

"August 28, 2023

FISCAL YEAR  
2023 CLAIMS  
MANAGEMENT  
SUMMARY

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

Chair and Members:

Subject: Fiscal Year 2023 Claims Management Summary

Raelynn Nakabayashi, Executive Assistant I, Executive Support Office,  
will provide information on Fiscal Year 2023 Claims Management.

Respectfully Submitted,

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

Attachment"

The foregoing was for information only.

DISCUSSION: Raelynn Nakabayashi, Executive Assistant I, Executive Support Office,  
gave the report.

Board Member Gene Albano commented that there is a downward trend.  
He inquired if there was a reason why loss runs are lessening.

Ms. Nakabayashi responded that the claims presented vary from year to  
year. She explained that in Fiscal Year 2023, there were 22 claims, of  
which only half have been closed.

Board Member Bryan Andaya stated that he understands that the BWS  
tracks Auto and General Liability claims separately and further inquired if  
Ms. Nakabayashi could provide a breakdown of the types of General  
Liability claims.

Ms. Nakabayashi replied that while she doesn't have the breakdown at  
this time, General Liability claims consist broadly of claims associated  
with water main breaks, water pressure, or general operations matters  
like changing meters.

Manager Lau stated that the exact amounts and categories would be  
provided at a later time.

Board Member Andaya requested that breach of contract claims and  
lawsuits filed be included.

Board Member Sword asked how close the BWS is to finalizing the one open 2020 general liability claim.

Ms. Nakabayashi explained that the Fiscal Year 2020 ends on June 30, 2020. Therefore, a lawsuit was likely filed in that matter to allow the claimant to continue to pursue the claim; otherwise, at this point, the statute of limitations for this tort claim would have passed.



# FISCAL YEAR 2023 CLAIMS MANAGEMENT SUMMARY

Raelynn Nakabayashi  
August 28, 2023  
[boardofwatersupply.com](http://boardofwatersupply.com)

## LEGAL FRAMEWORK - WATER RESEARCH FOUNDATION

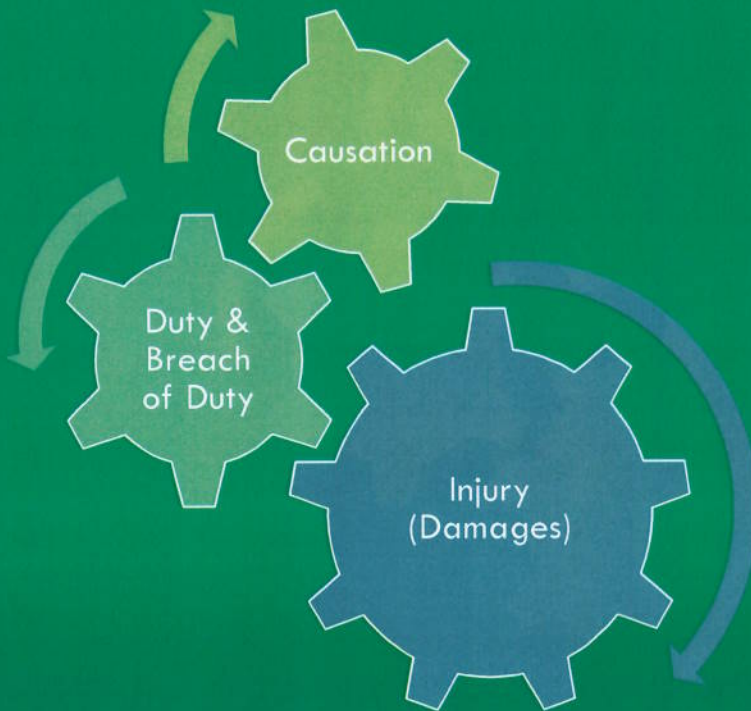
“...Tort law holds a person or entity to a defined and certain standard of care. When other persons or property are injured because of a failure to uphold that standard of care, the result is that the person who failed is held liable.”

...

“The matter of whether a water utility can be held liable for infrastructure failures is unique to the state or province where the utility is located because the standard of care that a utility is held to changes from jurisdiction to jurisdiction.”



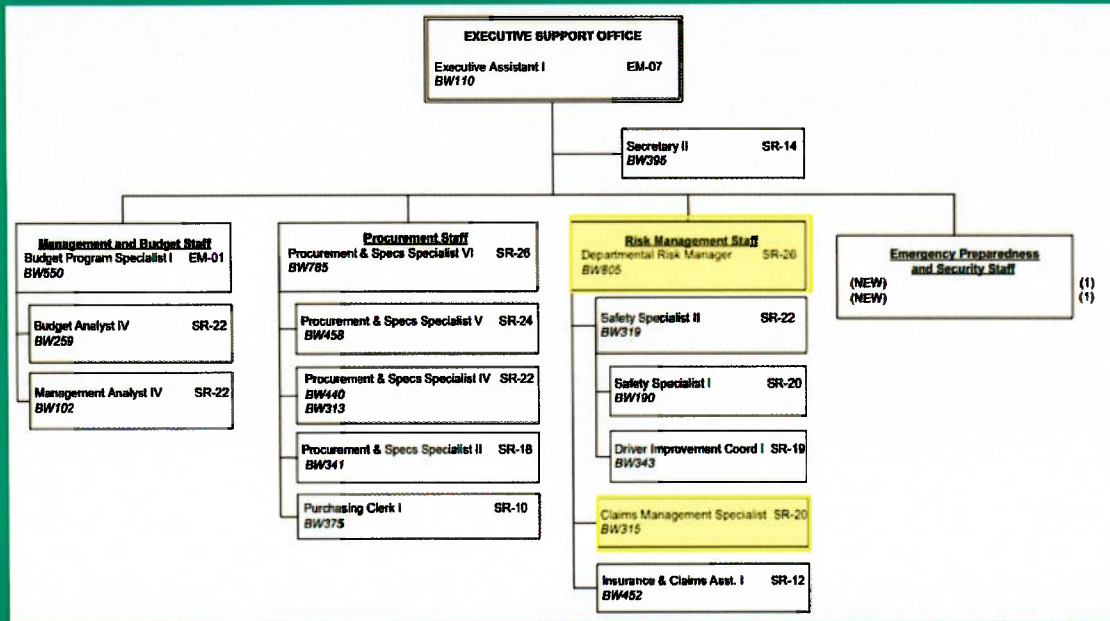
# HAWAII CIVIL JURY INSTRUCTIONS



“Plaintiff(s) must prove by a preponderance of the evidence that defendant(s) was/were negligent and that such negligence was a legal cause of plaintiff’s(s’) injuries and/or damages. Plaintiff(s) must also prove the nature and extent of his/her/their injuries and/or damages.”



# BOARD OF WATER SUPPLY – RISK MANAGEMENT



**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
4110 - Salaries & Wages	312,516	335,400	336,200	343,700	7,500
4120 - Overtime	1,655	6,960	6,000	5,000	(1,000)
4130 - Miscellaneous (Payroll)	2,800	0	0	0	0
<b>Personnel Services</b>	<b>316,972</b>	<b>342,360</b>	<b>342,200</b>	<b>348,700</b>	<b>6,500</b>
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	1,199,633	1,050,000	1,170,000	1,270,000	100,000
4430 - Miscellaneous Supplies	8,193	7,300	7,800	7,000	(600)
4600 - Education and Training	2,035	2,750	2,900	13,175	10,275
4720 - Conference Travel & Expenses	160	10,000	3,500	500	(3,000)
4910 - Miscellaneous Fees & Registration	2,563	1,260	3,650	3,350	(300)
5700 - Insurance	1,018,347	850,000	1,110,635	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
<b>Materials, Supplies and Services</b>	<b>4,279,136</b>	<b>4,506,399</b>	<b>4,832,966</b>	<b>5,075,927</b>	<b>442,962</b>
<b>Total Risk Management</b>	<b>4,896,108</b>	<b>4,848,749</b>	<b>4,975,166</b>	<b>5,424,627</b>	<b>448,462</b>

**Budget Highlights**

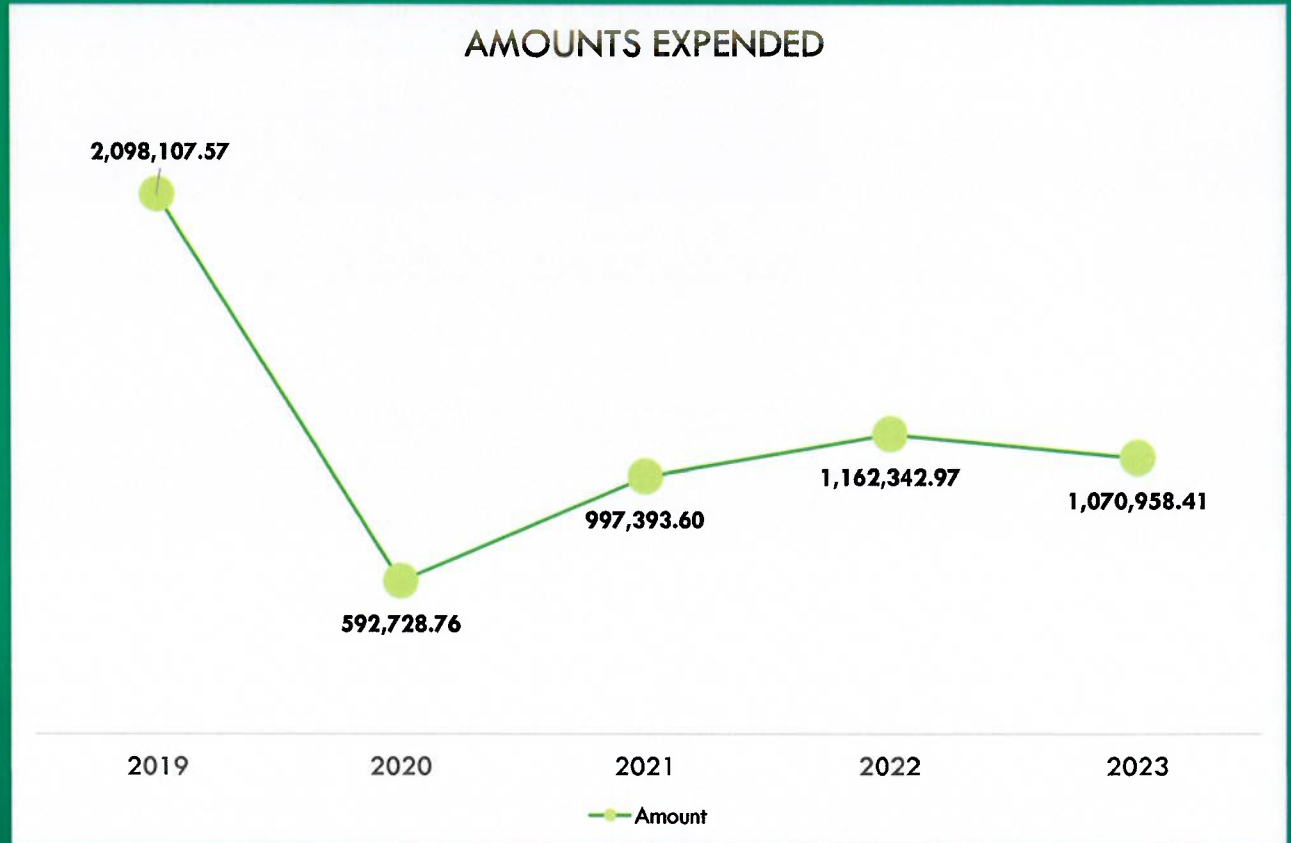




# CLAIMS FOR PERSONAL INJURIES / PROPERTY DAMAGES

(5-YEAR EXPENDITURE HISTORY)

Fiscal Year	Amount
2019	2,098,107.57
2020	592,728.76
2021	997,393.60
2022	1,162,342.97
2023	1,070,958.41



# GENERAL LIABILITY\* LOSS RUNS

FISCAL YEARS 2019 - 2023

	<b>Total</b>	<b>Closed</b>	<b>Open</b>	<b>Paid</b>
<b>FY2019</b>	107	107	0	393,576.11
<b>FY2020</b>	105	104	1	884,640.74
<b>FY2021</b>	85	80	5	1,351,725.70
<b>FY2022</b>	51	28	23	44,731.89
<b>FY2023</b>	67	8	59	72,661.31

Does not include Litigated Matters that did not begin with a "Claim"



# AUTO\* LOSS RUNS

FISCAL YEARS 2019 - 2023

	<b>Total</b>	<b>Closed</b>	<b>Open</b>	<b>Paid</b>
<b>FY2019</b>	48	48	0	25,888.25
<b>FY2020</b>	12	11	1	69,051.68
<b>FY2021</b>	23	23	0	56,200.19
<b>FY2022</b>	21	18	3	17,946.88
<b>FY2023</b>	22	11	11	1,614.00

Does not include Litigated Matters that did not begin with a "Claim"





# Mahalo!

## BOARD OF WATER SUPPLY

Fiscal Year 2023 Claims Management Summary

Raelynn Nakabayashi

(808) 748-5177, [rnakabayashi@hbws.org](mailto:rnakabayashi@hbws.org)

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

August 28, 2022

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

ITEM FOR INFORMATION NO. 3

“August 28, 2023

FINANCIAL  
UPDATE FOR  
THE QUARTER  
ENDED  
JUNE 30, 2023

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

Subject: Financial Update for the Quarter Ended June 30, 2023

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,

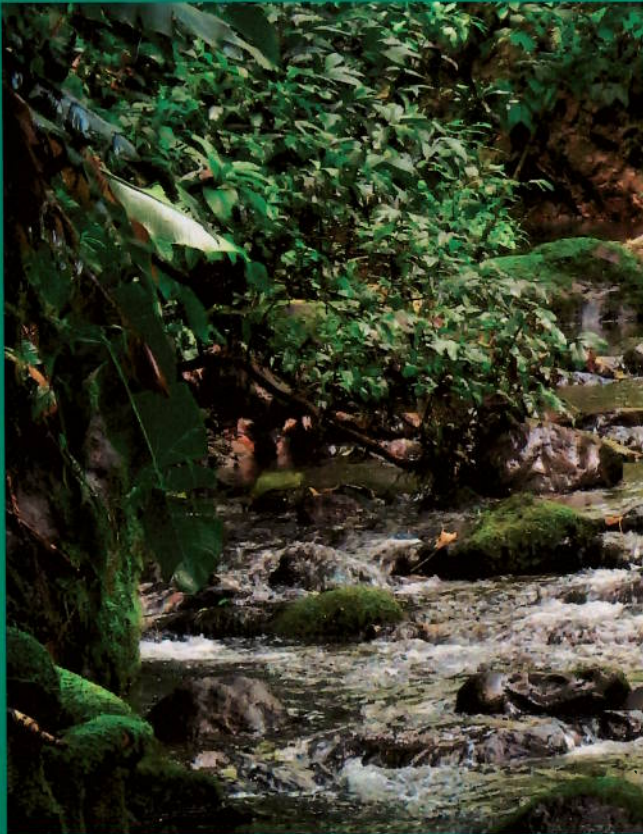
/s/ ERNEST Y. W. LAU, P.E  
Manager and Chief Engineer

Attachment”

The foregoing was for information only.

DISCUSSION:

Joseph Cooper, Waterworks Controller, Finance Division, gave the report. There were no comments or discussion.



FINANCIAL  
PERFORMANCE  
JULY 2022–JUNE 2023

Joe Cooper  
Aug 28, 2023  
[boardofwatersupply.com](http://boardofwatersupply.com)



## BUDGET TO ACTUAL JULY 2022 – JUNE 2023

- Actual Revenue \$251.2 million vs.
- Budgeted Revenue \$258.6 million
  
- Operating costs are \$217.8 million vs.
- Budgeted costs of \$237.2 million
  
- Actual Net Revenue \$33.3 million vs.
- Budgeted Net Expenditures \$21.3 million



## COST DRIVERS

Year to Date June 2023

	Actual (millions)	Budget (millions)
• Personnel	\$42.1	\$51.4
• Material, Supplies & Services	\$73.0	\$86.2
• Equipment	\$ 4.1	\$ 5.1
• Debt Service	\$ 35.1	\$ 34.5
• Utilities	\$ 32.8	\$ 27.3





# OPERATING BUDGET VS ACTUAL

FY2023 4<sup>TH</sup> QUARTER - YEAR TO DATE: JUL 22 – JUN 23

BUDGETED EXPENDITURES ARE \$237.2M VS. ACTUAL EXPENDITURES OF \$217.8M  
OF THE (\$19.4M) VARIANCE...

## Fixed Charges - \$4.1M Over Budget

- Electric Power – Water Dist. (\$5.1M Over)
- Electricity (\$368K Over)

## Field Operations - \$9.6M Under Budget

- Salaries & Wages (\$3.2M Under)
- Emergency & Contracted Road Repairs (\$2.9M Under)
- Meters Storeroom (\$2.1M Under)

## Information Technology - \$3.5M Under Budget

- Other Contractual Services (\$1.9M Under)
- Postage (\$368K Under)
- General Equipment over \$5K (\$368K Under)

## Capital Projects - \$2.1M Under Budget

- Salaries & Wages (\$1.2M Under)
- Other Contractual Services (\$351K Under)

## Water System Operations - \$1.7M Under Budget

- Salaries & Wages (\$1.8M Under)

## Water Quality - \$1.7M Under Budget

- Professional Services (\$1.6M Under)
- Salaries & Wages (\$551K Under)

## Water Resources - \$1.2M Under Budget

- Other Services (\$913K Under)
- Salaries, Wages, & OT (\$401K Under)

## Customer Care - \$1.2M Under Budget

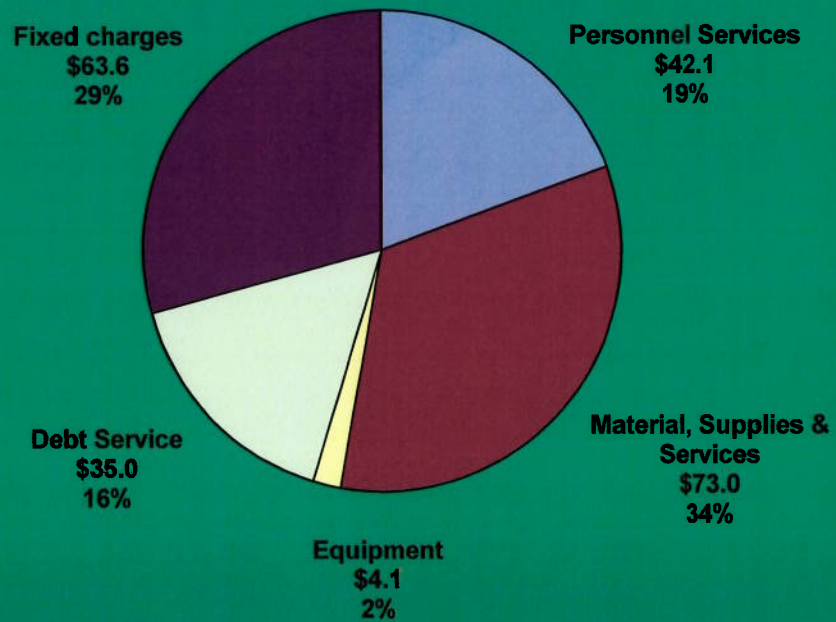
- Salaries, Wages & OT (\$798K Under)
- Collection Fees (\$283K Under)

## Executive Support Office - \$1.1M Under Budget

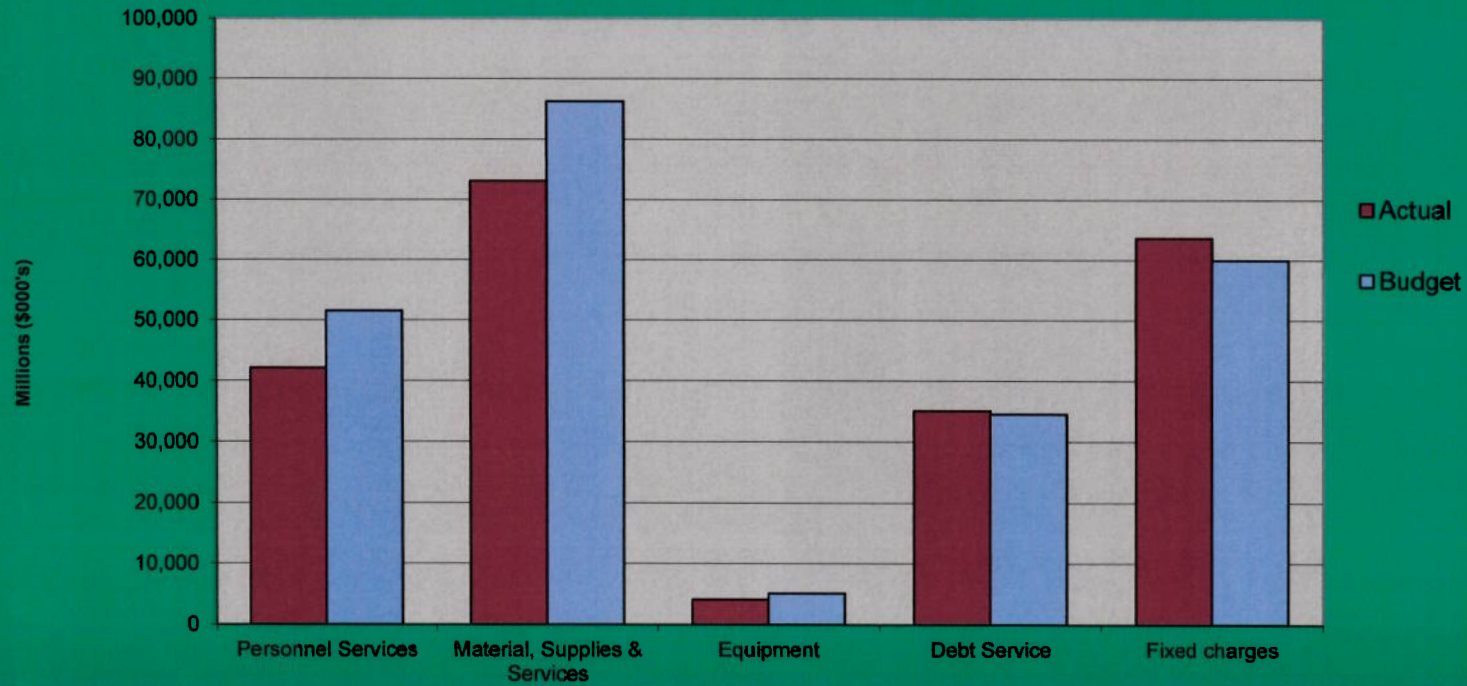
- Worker's Comp Benefits (\$505K Under)
- Salaries & Wages (\$333K Under)



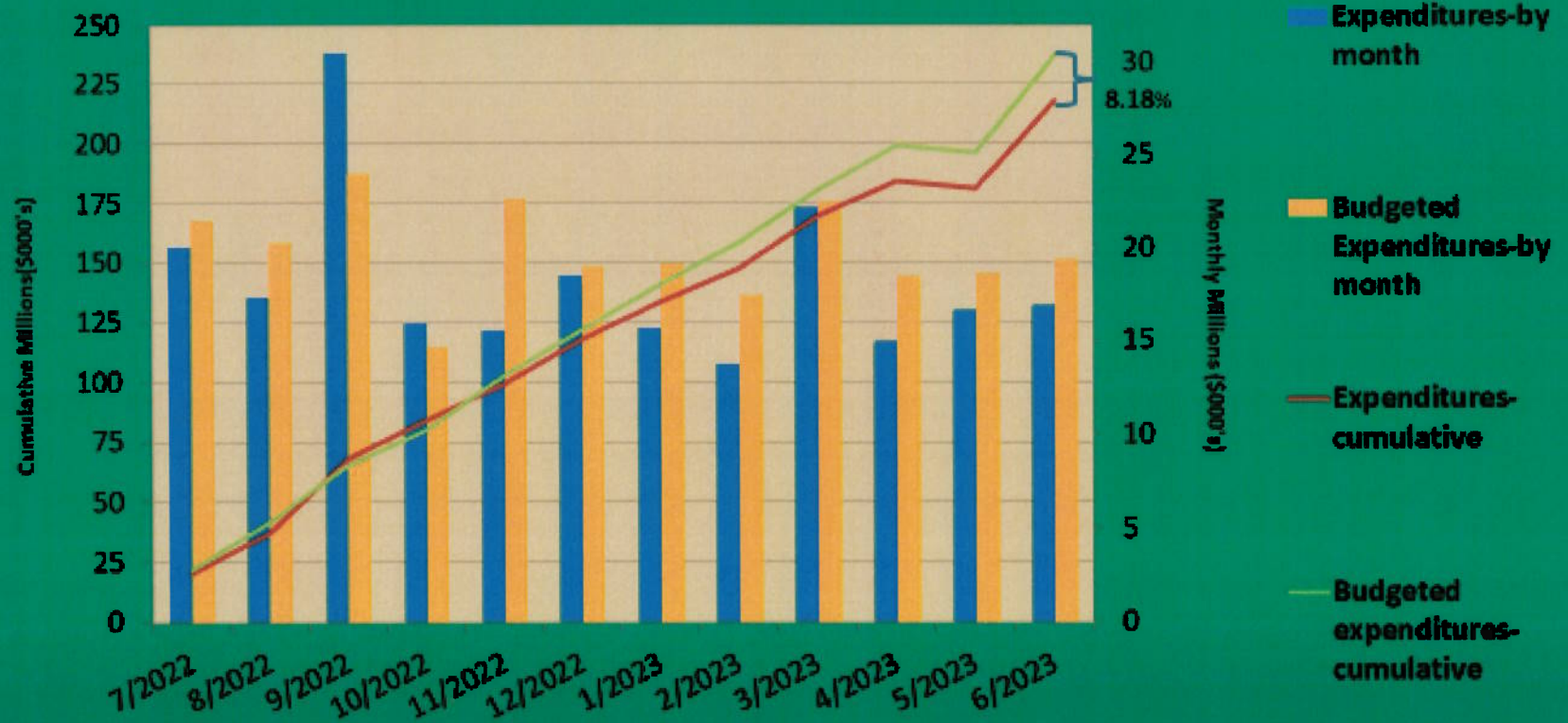
**Total Operating Expenditures - \$217.8**  
**As of June 30, 2023**  
(millions of dollars)



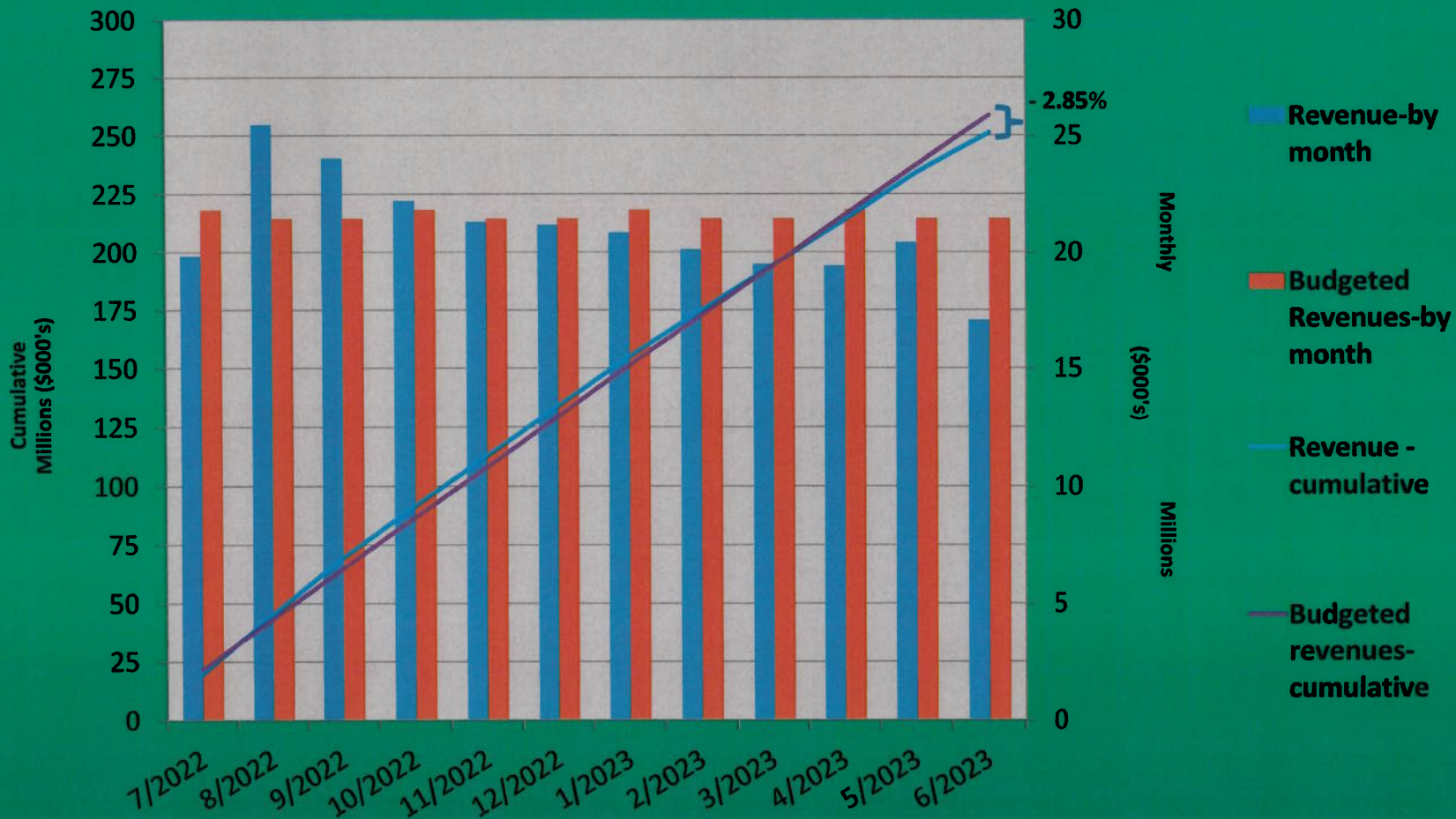
**Operating Expenditures by Category (Budget vs. Actual)  
As of June 30, 2023**



### BUDGETED OPERATING EXPENDITURES FY 2023



### BUDGETED OPERATING REVENUES FY 2023





Mahalo!

BOARD OF WATER SUPPLY

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



Board Of Water Supply  
 Budget vs Actual Appropriation Budget - Total BWS Summary

(\$000's)

CIFIS 23820-3021

AS OF 6/30/2023

OPER UNIT ALL  
 BUSINESS UNIT ALL

YTD-TO-DATE				FOR THE FISCAL YEAR					
YTD Actuals	YTD Budget	Avail/ (Over)	%	Object Description	Revenues/ Expend	Open Encumb	Annual Budget	Avail/ (Over)	%
<u>251,180</u>	<u>258,560</u>	<u>7,380</u>	<u>2.85</u>	<u>REVENUE</u>	<u>251,180</u>		<u>258,560</u>	<u>7,380</u>	<u>2.85</u>
				OPERATING EXPENSES:					
42,051	51,446	9,395	18.26	Personnel Services	42,051		51,446	9,395	18.26
				MATERIALS AND SUPPLIES					
43,835	51,607	7,772	15.06	Services	22,110	21,725	51,607	7,772	15.06
13,564	16,154	2,590	16.03	Supplies	11,427	2,137	16,154	2,590	16.03
167	428	261	60.98	Education & Training	158	9	428	261	60.98
	12	12	100.00	Utilities			12	12	100.00
2,733	2,785	52	1.87	Repairs & Maint	1,795	938	2,785	52	1.87
12,749	15,233	2,484	16.31	Misc	11,597	1,152	15,233	2,484	16.31
4,088	5,087	999	19.64	Equipment	453	3,635	5,087	999	19.64
35,043	34,511	(532)	1.54-	Debt Service	35,043		34,511	(532)	1.54-
				FIXED CHARGES:					
32,807	27,320	(5,487)	20.08-	Utilities	32,807		27,320	(5,487)	20.08-
3,300	3,300			Case Fees	3,300		3,300		
13,997	15,400	1,403	9.11	Retirement System Contribution	13,997		15,400	1,403	9.11
13,513	13,960	447	3.20	Misc Employees' Benefits	12,853	660	13,960	447	3.20
<u>217,847</u>	<u>237,243</u>	<u>19,396</u>	<u>8.18</u>	<u>TOTAL OPERATING EXPENDITURES</u>	<u>187,591</u>	<u>30,256</u>	<u>237,243</u>	<u>19,396</u>	<u>8.18</u>
<u>33,333</u>	<u>21,317</u>	<u>(12,016)</u>		<u>NET REVENUES (EXPENDITURES)</u>	<u>63,589</u>	<u>(30,256)</u>	<u>21,317</u>	<u>(12,016)</u>	

Board Of Water Supply  
Statement of Revenues, Expenses And Change In Net Assets  
As of June 30, 2023

Current Month Actual	% Revenue	Last Year Actual	% Revenue	Description	Year to Date Actual	% Revenue	Last Year to Date Actual	% Revenue	% Change
REVENUE									
20,416,962.03	100.00	18,897,716.91	100.00	OPERATING REVENUE	247,251,942.73	100.00	248,263,567.24	100.00	.41-
20,416,962.03	100.00	18,897,716.91	100.00	REVENUE	247,251,942.73	100.00	248,263,567.24	100.00	.41-
OPERATING EXPENSES									
3,127,127.46-	15.32	3,175,589.03-	16.80	LABOR COSTS	39,090,318.25-	15.81	38,850,956.84-	15.65	.62
2,298,515.36-	11.26	5,718,281.62-	30.26	SERVICES	38,427,362.89-	15.54	37,188,499.76-	14.98	3.33
840,738.85-	4.12	343,718.45-	1.82	SUPPLIES	7,064,501.49-	2.86	5,718,925.67-	2.30	23.53
32,788.72-	.16	21,878.17-	.12	EDUCATION & TRAINING	157,928.22-	.06	43,707.20-	.02	261.33
1,050,434.40-	5.14	5,560,070.11-	29.42	UTILITIES	29,223,165.66-	11.82	28,445,097.68-	11.46	2.74
134,127.76-	.66	296,192.15-	1.57	REPAIR AND MAINTENANCE	2,198,296.16-	.89	2,553,899.60-	1.03	13.92-
109,375.00-	.54	259,462.54-	1.37	MISC	19,165,131.78-	7.75	18,851,017.10-	7.59	1.67
2,049,268.23-	10.04	6,639,477.40	35.13	RETIREMENT SYSTEM CONTRIBUTIO	24,698,606.70-	9.99	16,795,451.12-	6.77	47.06
18,411.06-	.09	705,556.79	3.73	MISC EMPLOYEES' BENEFITS	250,404.01-	.10	1,228,533.34-	.49	79.62-
9,660,786.84-	47.32	8,030,157.88-	42.49	OPERATING EXPENSES	160,275,715.16-	64.82	149,676,088.31-	60.29	7.08
5,607,341.77-	27.46	1,904,061.66-	10.08	NON OPERATING REVENUE AND EXPE	8,546,411.80-	3.46	28,997,887.16-	11.68	70.53-
8,356,241.09	40.93	3,092,510.69	16.36	CONTRIBUTION IN AID	21,263,736.36	8.60	19,507,764.93	7.86	9.00
55,384.92-	.27	11,288.60-	.06	LEASE	314,297.47-	.13	175,890.09-	.07	78.69
5,716,395.54-	28.00	8,342,574.83-	44.15	OTHER EXPENSES	53,039,114.17-	21.45	58,110,920.51-	23.41	8.73-
7,733,294.05	37.88	3,702,144.63	19.59	Change In Net Assets	46,340,140.49	18.74	30,810,546.10	12.41	50.40



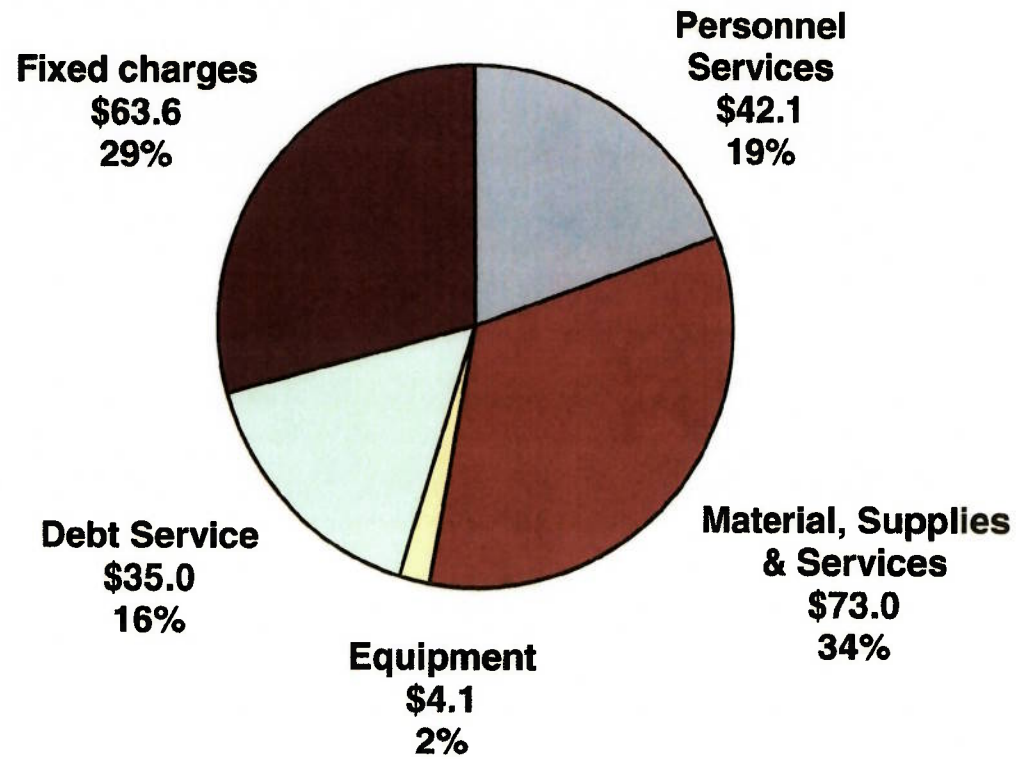
Budget vs. Actual  
Revenue and Expense Totals  
As of June 30, 2023

	YTD Actuals	YTD Budget	Favorable/ (Unfavorable) Variance
Revenues	251,180	258,560	(7,380)
Operating Expenses	(217,847)	(237,243)	19,396
Net Revenues (expenditures)	<u>33,333</u>	<u>21,317</u>	<u>12,016</u>

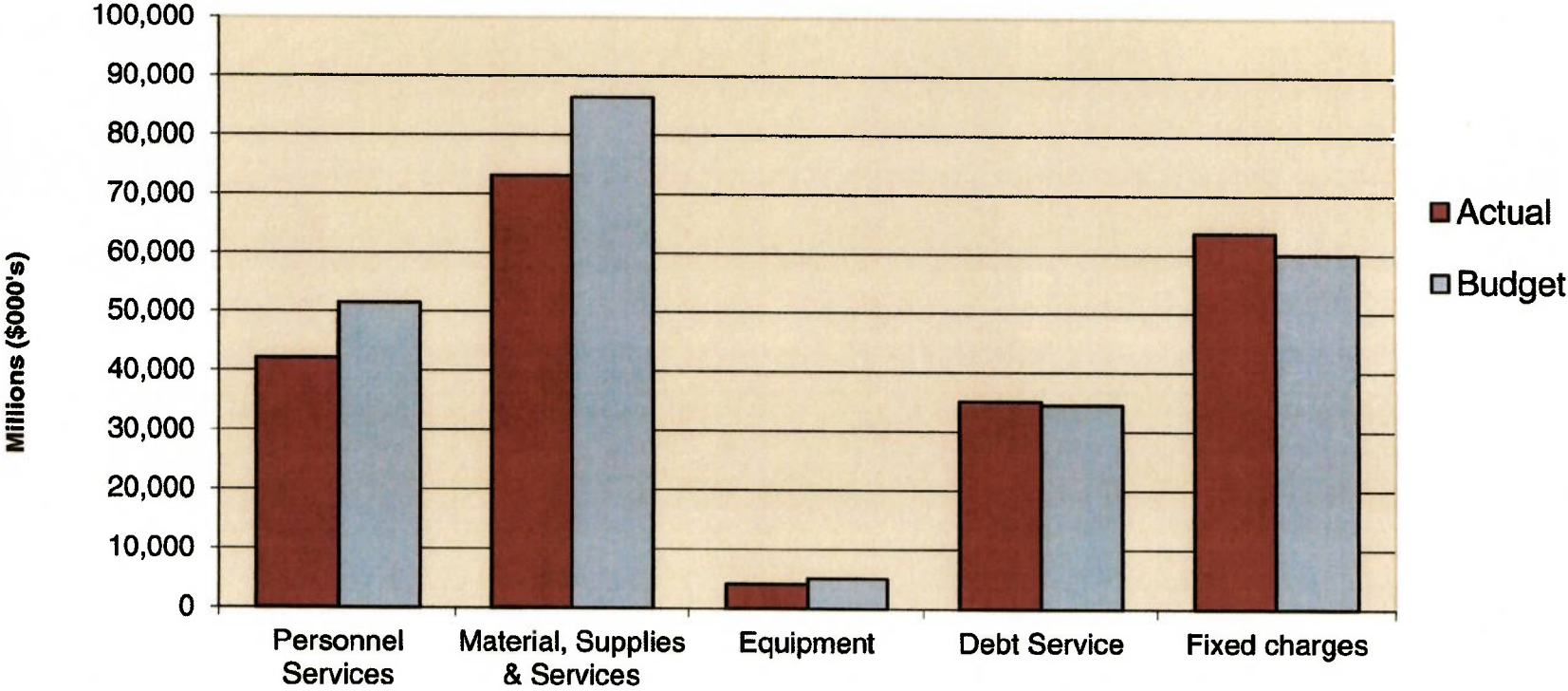
Board Of Water Supply  
Balance Sheet  
As of June 30, 2023

Description	***** Amounts *****			***** Change *****	
	Current	Last Month End	Last Year End	This Month	This Year
<b>ASSETS</b>					
CURRENT ASSETS	57,011,002.37	55,444,209.92	63,371,943.76	1,566,792.45	(6,360,941.39)
RESTRICTED ASSETS	36,338,195.60	13,576,223.43	34,274,722.17	22,761,972.17	2,063,473.43
INVESTMENTS	668,044,026.28	671,328,914.46	607,931,879.15	(3,284,888.18)	60,112,147.13
OTHER ASSETS	14,279,328.07	14,453,566.50	16,791,907.52	(174,238.43)	(2,512,579.45)
PROPERTY / PLANT	1,353,789,129.16	1,345,820,540.14	1,334,940,800.90	7,968,589.02	18,848,328.26
DEFERRED OUTFLOWS OF RESOURCE	10,004,443.00	10,004,443.00	10,004,443.00	-	-
DEFERRED OUTFLOWS OF RESOURCE	25,146,762.00	25,146,762.00	25,146,762.00	-	-
<b>ASSETS</b>	<u>2,164,612,886.48</u>	<u>2,135,774,659.45</u>	<u>2,092,462,458.50</u>	<u>28,838,227.03</u>	<u>72,150,427.98</u>
<b>LIABILITIES</b>					
CURRENT LIABILITIES	35,303,119.77	32,085,166.25	51,303,295.16	3,217,953.52	(16,000,175.39)
OTHER LIABILITIES	74,305,426.41	75,203,163.19	49,782,654.63	(897,736.78)	24,522,771.78
BONDS PAYABLE, NONCURRENT	504,608,226.69	485,845,309.95	488,676,813.88	18,762,916.74	15,931,412.81
LEASE LIABILITY	4,301,680.55	4,279,881.05	2,945,402.26	21,799.50	1,356,278.29
NET PENSION LIABILITY	106,763,854.00	106,763,854.00	106,763,854.00	-	-
NET OPEB LIABILITY	65,177,682.00	65,177,682.00	65,177,682.00	-	-
DEFERRED INFLOWS OF RESOURCES	28,840,810.00	28,840,810.00	28,840,810.00	-	-
<b>LIABILITIES</b>	<u>819,300,799.42</u>	<u>798,195,866.44</u>	<u>793,490,511.93</u>	<u>21,104,932.98</u>	<u>25,810,287.49</u>
<b>NET ASSETS</b>					
RETAINED EARNINGS	178,678,824.99	252,175,785.77	271,321,393.57	-	-
FUND BALANCE	594,633,831.66	594,633,831.66	594,633,831.66	-	-
RESERVE FOR ENCUMBRANCES	525,659,289.92	452,162,329.14	433,016,721.34	-	-
CURRENT YEAR CHANGES TO FU	46,340,140.49	38,606,846.44		7,733,294.05	46,340,140.49
<b>NET ASSETS</b>	<u>1,345,312,087.06</u>	<u>1,337,578,793.01</u>	<u>1,298,971,946.57</u>	<u>7,733,294.05</u>	<u>46,340,140.49</u>
<b>TOTAL LIABILITIES AND NET ASSETS</b>	<u>2,164,612,886.48</u>	<u>2,135,774,659.45</u>	<u>2,092,462,458.50</u>	<u>28,838,227.03</u>	<u>72,150,427.98</u>

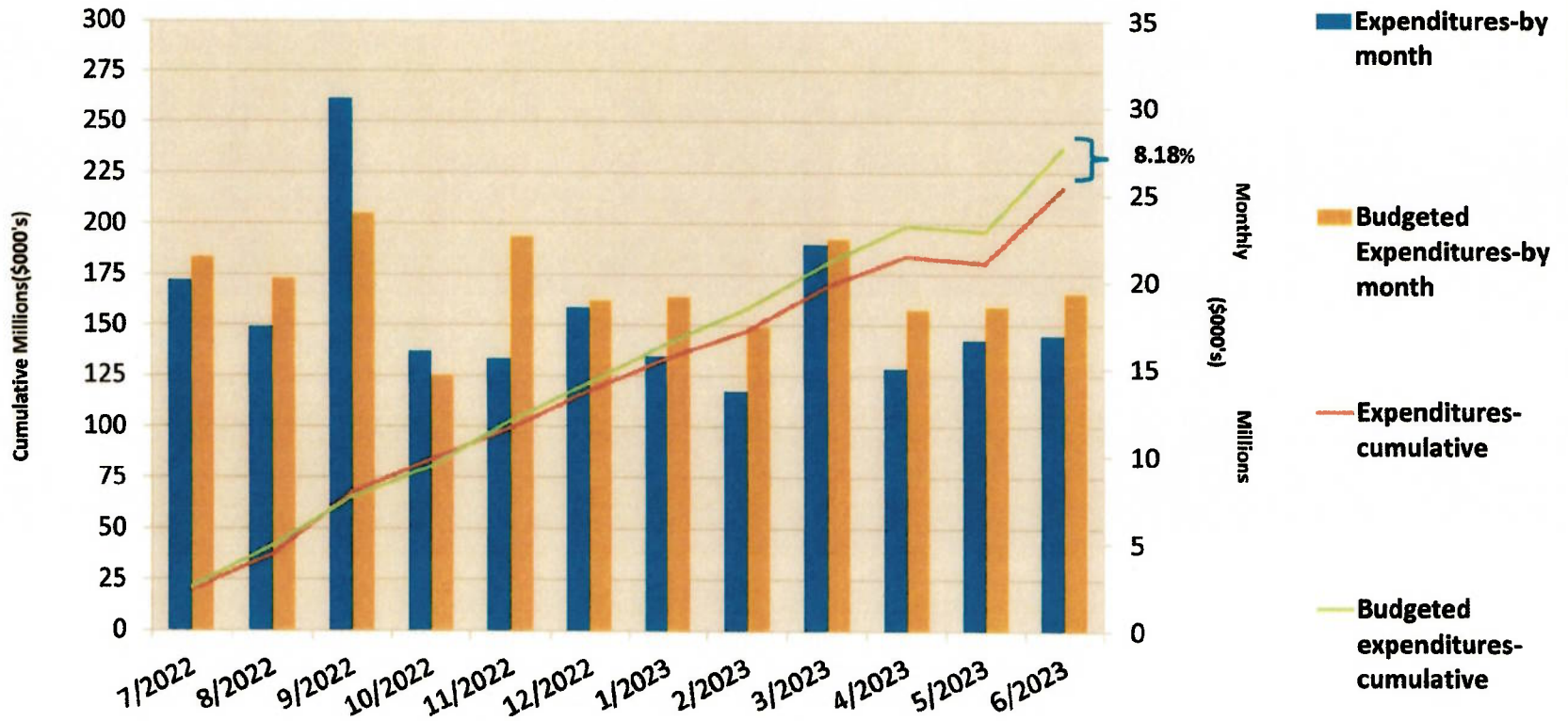
**Total Operating Expenditures - \$217.8**  
**As of June 30, 2023**  
(millions of dollars)



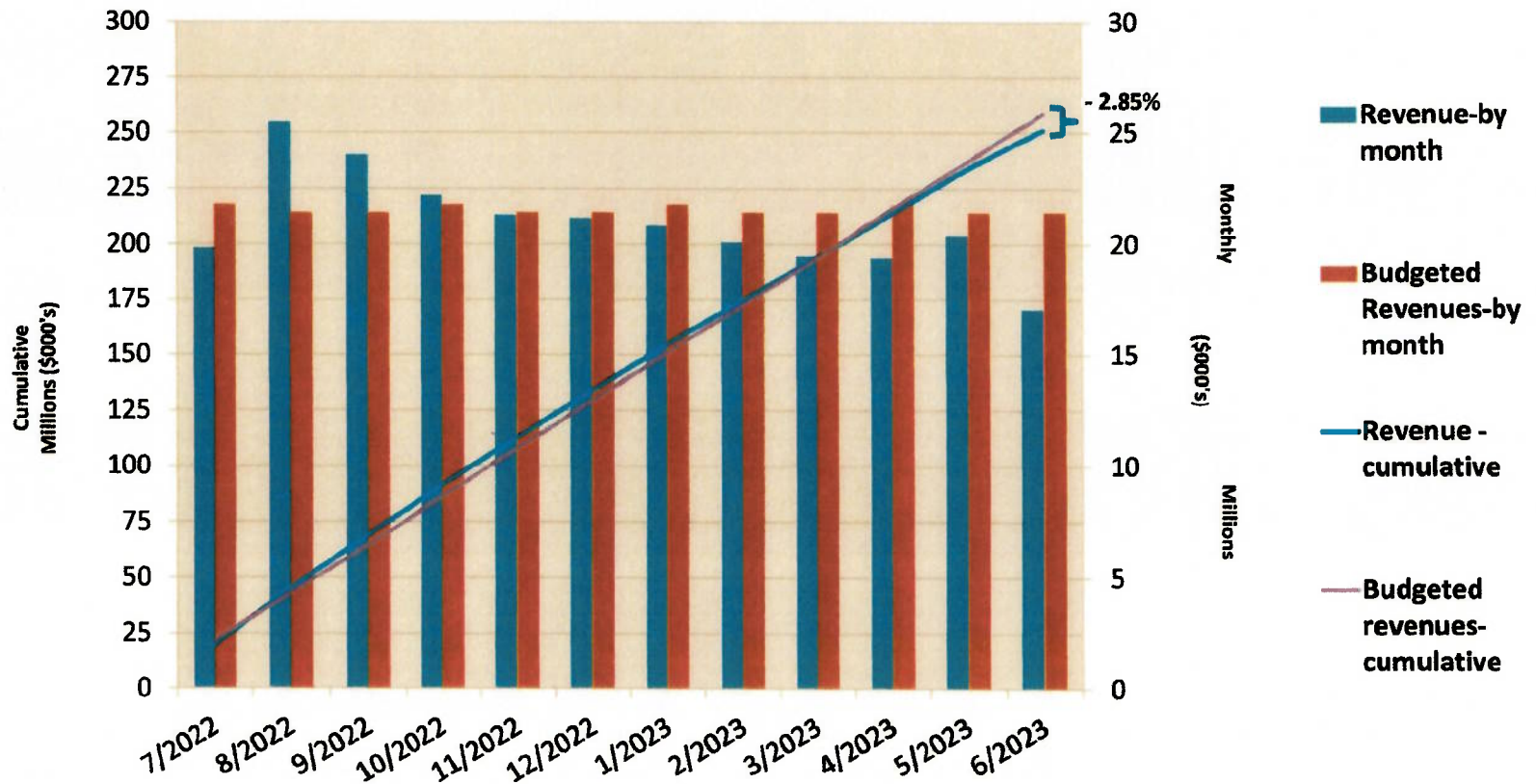
**Operating Expenditures by Category (Budget vs. Actual)  
As of June 30, 2023**



**BUDGETED OPERATING EXPENDITURES FY 2023**



### BUDGETED OPERATING REVENUES FY 2023



ITEM FOR INFORMATION NO. 4

“August 28, 2023

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

Jadine Urasaki, Acting Program Administrator, Capital Projects Division, will provide an update on the Capital Improvement Program. Raelynn Nakabayashi, Executive Assistant I, Executive Support Office, will present a summary of related supporting Budget Amendments to the Capital Improvement Program in Fiscal Year 2023.

Respectfully Submitted,

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

Attachment”

The foregoing was for information only.

DISCUSSION:

Jadine Urasaki, Acting Program Administrator, Capital Projects Division, and Raelynn Nakabayashi, Executive Assistant I, Executive Support Office, gave the report. There were no comments or discussion.

After Ms. Jadine Urasaki’s portion of the presentation, Chair Anthony commented that he noticed the differences in the awarded contracts.

Ms. Jadine Urasaki explained that variations in the cost of the awarded contracts may be due to various reasons, such as the timing of the bids solicited during that time or the feedback from pipe and pump suppliers regarding shortage supply issues.

Chair Anthony inquired how many staff members oversee the 241 design projects, of which 135 are ongoing construction projects.

Ms. Urasaki replied that there isn’t enough staff, and the Capital Projects (CP) Division has about 25 vacancies.

**Quarterly Capital Improvement Program Status Report**  
All Divisions  
as of June 30, 2023

Quarter Awarded	JUL - SEP		OCT - DEC		JAN - MAR		APR - JUN		Awarded to Date	Total Budgeted
Design Contracts Awarded (#/\$)	0	\$0.00	1	\$300,000.00	0	\$0.00	21	\$19,499,058.00	\$19,799,058.00	\$23,554,000.00
Construction Contracts Awarded (#/\$)	2	937,349.00	2	295,912.00	7	37,159,249.00	25	76,535,083.50	114,927,593.50	120,845,500.00
Land Purchases (#/\$)	0	0.00	0	0.00	0	0.00	0	0.00	0.00	100,000.00
<b>Project Totals</b>	<b>2</b>	<b>\$937,349.00</b>	<b>3</b>	<b>\$595,912.00</b>	<b>7</b>	<b>\$37,159,249.00</b>	<b>46</b>	<b>\$96,034,141.50</b>	<b>\$134,726,651.50</b>	<b>\$144,499,500.00</b>

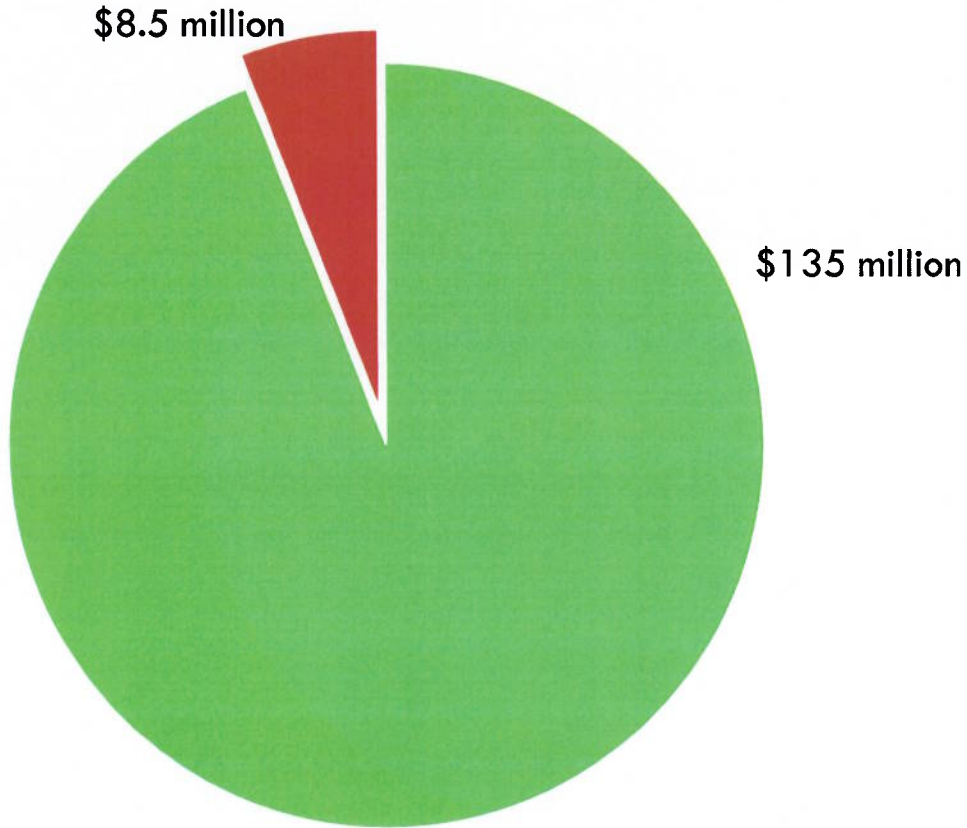
Quarter Completed	JUL - SEP		OCT - DEC		JAN - MAR		APR - JUN		Totals
Design Contracts Completed (#/\$)	0	\$0.00	6	\$1,148,091.61	0	\$0.00	0	\$0.00	\$1,148,091.61
Construction Contracts Completed (#/\$)	1	1,467,700.00	7	3,162,978.29	0	0.00	12	19,307,189.35	23,937,867.64
<b>Totals</b>	<b>1</b>	<b>\$1,467,700.00</b>	<b>13</b>	<b>\$4,311,069.90</b>	<b>0</b>	<b>\$0.00</b>	<b>12</b>	<b>\$19,307,189.35</b>	<b>\$25,085,959.25</b>

Ongoing Projects	
Ongoing Design Projects (#)	241
Ongoing Design Projects (\$)	\$105,168,280.09
Ongoing Construction Projects (#)	135
Ongoing Construction Projects (\$)	\$349,647,855.17





# FY23 Capital Improvement Program



■ Executed

■ Unawarded Project



Quarterly Capital Improvement Program Status Report  
All Divisions

**DESIGN AND CONSTRUCTION PROJECTS AWARDED - FOURTH QUARTER FY 2023**

Item #	Project Title	Expend Type	Budget Amount	Awarded
23-003	Monitoring Wells for Red Hill Contamination Response	PE	2,250,000.00	5,929,000.00
23-004	Waikele Gulch Exploratory Wells	PE	275,000.00	699,346.00
23-011	Selected Deactivated Wells Conditional Assessment	PE	1,500,000.00	1,463,016.00
23-012	Kailua Heights Booster Electrical Upgrades	PE	450,000.00	440,902.00
23-013	Niu Valley Booster No.1 MCC Replacement	PE	400,000.00	499,548.00
23-014	Pump Renewal and Replacement	PE	250,000.00	374,297.00
23-027	Kapolei Parkway 24-Inch R1 Water Main	PE	500,000.00	474,163.00
23-030	GAC Interior Corrosion Control at Various Locations	PE	500,000.00	500,000.00
23-04LD	Nuuanu Reservoir No. 2 and 3 Assessment of Dam Safety	PE	250,000.00	896,984.00
23-038	Pump Station Assessment and Operations/Repairs	PE	300,000.00	300,000.00
23-039A	McCully Street Bridge 16-Inch Main	PE	344,623.00	344,623.00
23-039B	Pupukea 600, Waihee 265, Waimanalo 365 NO.1 & 2, Waialae Iki 1300 and Barbers Point 215 No.1 Reservoirs	PE	453,806.00	453,806.00
23-039D	Reservoir Reroofing at Mililani 685, Mililani 994 No. 1 & 2, Mililani 1150, Wahiawa 994 and Waipio Acres 808	PE	408,350.00	408,350.00
23-043	Kunia Wells IV	PE	450,000.00	449,617.00
23-046	Kalaeloa Sea Water Desalination Facility	PE	1,000,000.00	1,000,000.00
23-026A	Moanalua Road 8-Inch Water Main near Hekaha Street	PE	308,929.00	308,929.00
23-026D	Kaaawa Stream Bridge Waterline Replacement	PE	837,947.00	837,947.00
23-026B	Oili Loop and Ahuawa Loop Area Water System Improvements	PE	747,316.00	747,316.00
23-026E	Waimanalo Water System Improvements along Kalaniana'ole Highway	PE	2,472,312.00	2,472,312.00
23-036 & 37	Kaahumanu Wells and Manana Wells Control Valve Renovation	PE	1,400,000.00	898,902.00
<b>4th Quarter subtotals- DESIGN</b>			<b>\$15,098,283.00</b>	<b>\$19,499,058.00</b>



**Quarterly Capital Improvement Program Status Report**  
**All Divisions**

**DESIGN AND CONSTRUCTION PROJECTS AWARDED - FOURTH QUARTER FY 2023**

<b>Item #</b>	<b>Project Title</b>	<b>Expend Type</b>	<b>Budget Amount</b>	<b>Awarded</b>
23-001	Manoa Well I Exploratory Well	CON	1,000,000.00	5,355,900.00
23-010D	Opana Wells Pump No.3 Replacement	CON	267,366.50	267,366.50
23-010K	Punanani Wells Pump No.3 Replacement	CON	260,594.00	260,594.00
23-010G	Luluku Wells Pump No. 1 Replacement	CON	387,361.00	387,361.00
23-010H	Kunia Wells II Pump No.1 Replacement	CON	398,468.00	398,468.00
23-010M	Honouliuli Wells II Pump Unit 3 Well Video	CON	3,500.00	3,500.00
23-030A	GAC Corrosion Control & Repair Waipahu Wells I	CON	1,000,000.00	979,508.00
23-033M	Pearl City Booster No.3 Control Building Reroofing	CON	23,138.00	23,138.00
23-033B	Kalihi Corporation Yard UST Removal	CON	858,700.00	858,700.00
23-033A	Kalihi Corporation Yard Fueling Station Repair	CON	473,000.00	473,000.00
23-033E	Diamond Head 180 Reservoir Security Fencing Improvements	CON	1,413,000.00	1,413,000.00
23-033K	Halawa Xeriscape Garden Pavilion and Visitor Center Building Repair	CON	734,690.00	734,690.00
23-042	Ewa Shaft Tunnel Improvements	CON	4,000,000.00	6,318,255.00
23-046	Kalaeloa Sea Water Desalination Facility	CON	18,000,000.00	18,000,000.00
23-006	Honouliuli Wells II MCC Replacement	CON	5,900,000.00	6,502,128.00
23-007	Mililani Wells IV Replacement of Pumps 1 & 3	CON	8,000,000.00	12,230,989.00
23-009B	Temporary Pumping Connections - Alewa Heights Booster NO.2	CON	740,259.00	740,259.00
23-009D	Temporary Pumping Connections - Halawa 550' Reservoir	CON	1,305,053.00	1,305,053.00
23-009A	Temporary Pumping Connections - Mililani Wells III	CON	833,179.00	833,179.00
23-017	Moanalua 8-Inch Waimalu Neighborhood Park Vicinity	CON	1,400,000.00	924,897.00
23-024	Diamond Head Water System Improvements Part III	CON	1,800,000.00	1,800,000.00
23-032A	Pump Station Instrumentation & Controls and SCADA Upgrade	CON	1,500,000.00	824,001.00
23-008	Haleiwa Wells Renovation	CON	6,000,000.00	3,849,314.00
23-023	Monsarrat Avenue Water System Improvements	CON	4,800,000.00	7,727,423.00
23-034	Security Improvements at Various Locations	CON	4,600,000.00	4,324,360.00
<b>4th Quarter Subtotals - CONSTRUCTION</b>			<b>\$65,698,308.50</b>	<b>\$76,535,083.50</b>
<b>4th Quarter TOTALS</b>			<b>\$80,796,591.50</b>	<b>\$96,034,141.50</b>

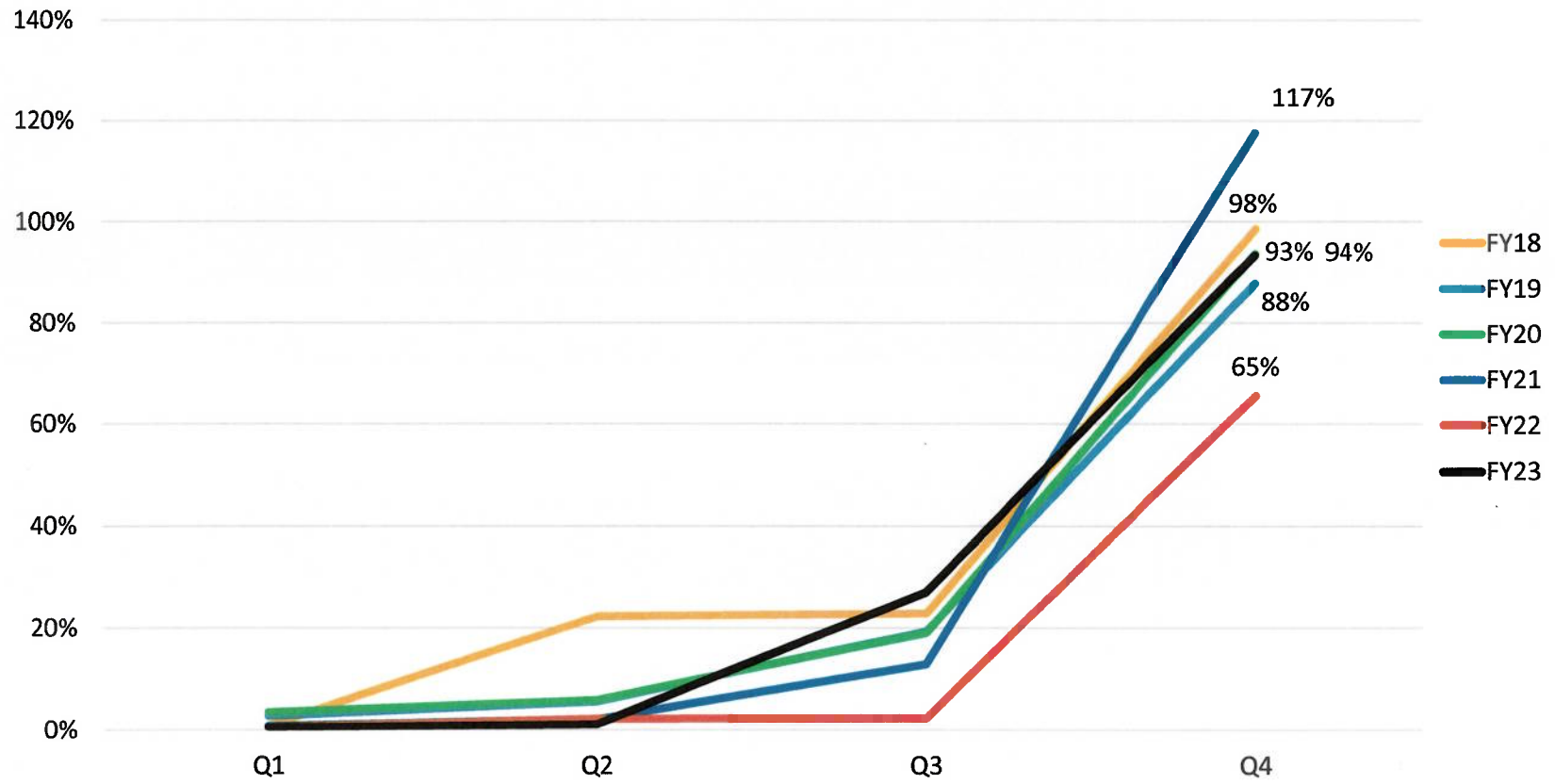


**DESIGN AND CONSTRUCTION PROJECTS COMPLETED - FOURTH QUARTER FY 2023**

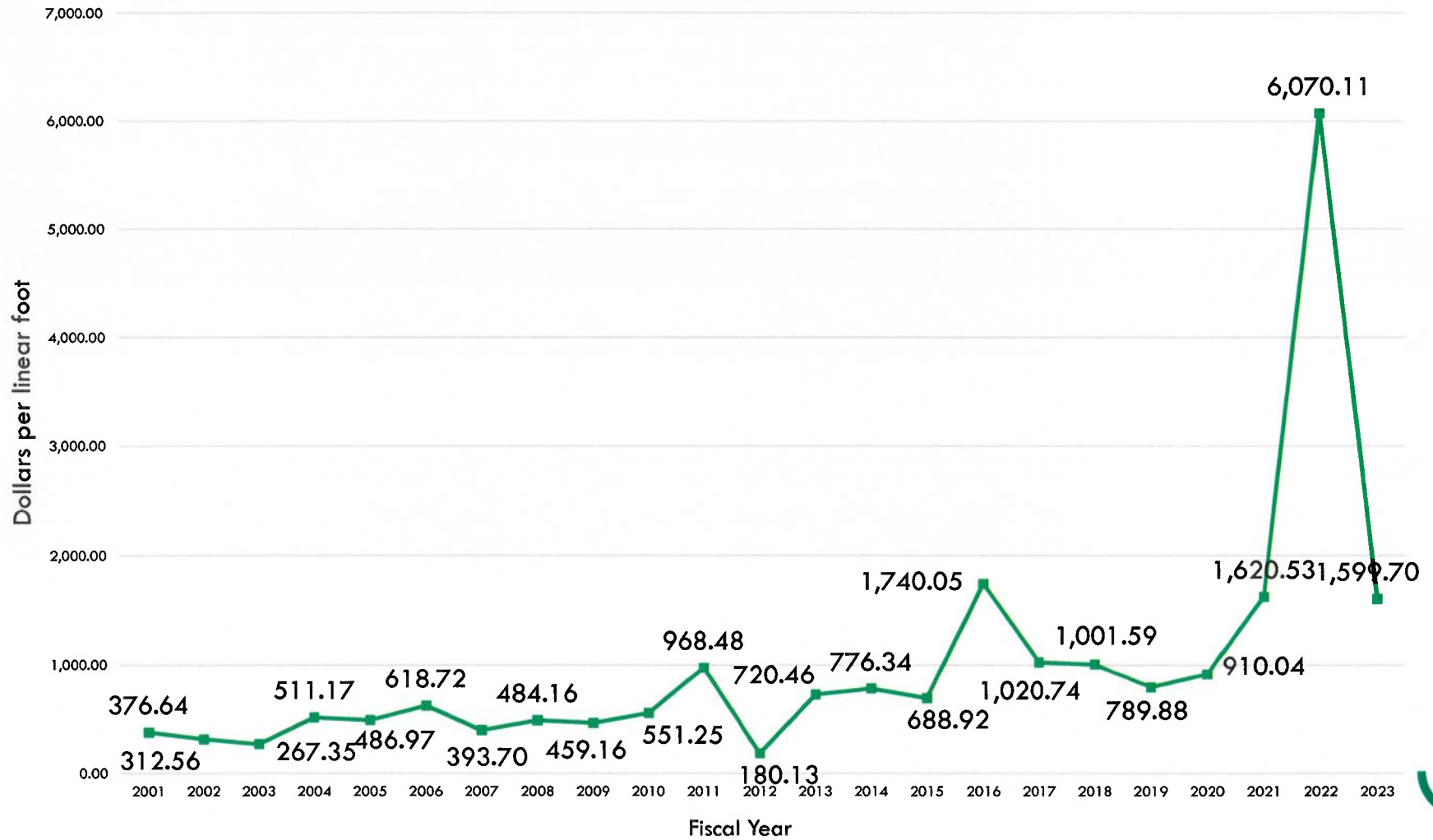
<b>Job #</b>	<b>Project Title</b>	<b>Completion Date</b>	<b>Contract Amount</b>
21-009Q	Kaahumanu Wells Pump No. 2 Starter Replacement	5/1/2023	\$144,180.00
20-018E	Makakilo Drive Water Line Replacement Emergency Project	5/1/2023	\$937,863.63
15-025	Pensacola Street Water System Improvements	6/14/2023	\$2,479,657.02
18-028A	Pipe Hanger Replacement: Keolu Drive Bridge No. 1	6/14/2023	\$145,155.63
19-012	Puhawai Road, Puuhulu Road and Kuwale Road WSI	5/22/2023	\$4,889,758.65
19-015	Pensacola Street 8-Inch Main, Kinau Street to Young Street	5/26/2023	\$849,922.36
21-009G	Kalauao Wells: Replacement of Pump No. 2 & No. 4	4/28/2023	\$465,067.00
22-010M	Kalauao Wells: 2nd Brush/Airlift Pump No. 2 & No. 4	4/28/2023	\$69,000.00
16-012	Anoi Road Water System Improvements	5/1/2023	\$5,543,947.89
22-010N	Waimanalo Wells II Replacement of Pump	2/3/2023	\$328,911.37
21-020	Kanehoa Loop and Puanihi Street Service Lateral Replacements	4/25/2023	\$645,465.05
18-024	Manoa Estates Water System Improvements	4/27/2023	\$2,808,260.75
	<b>4th Quarter totals</b>		<b>\$19,307,189.35</b>



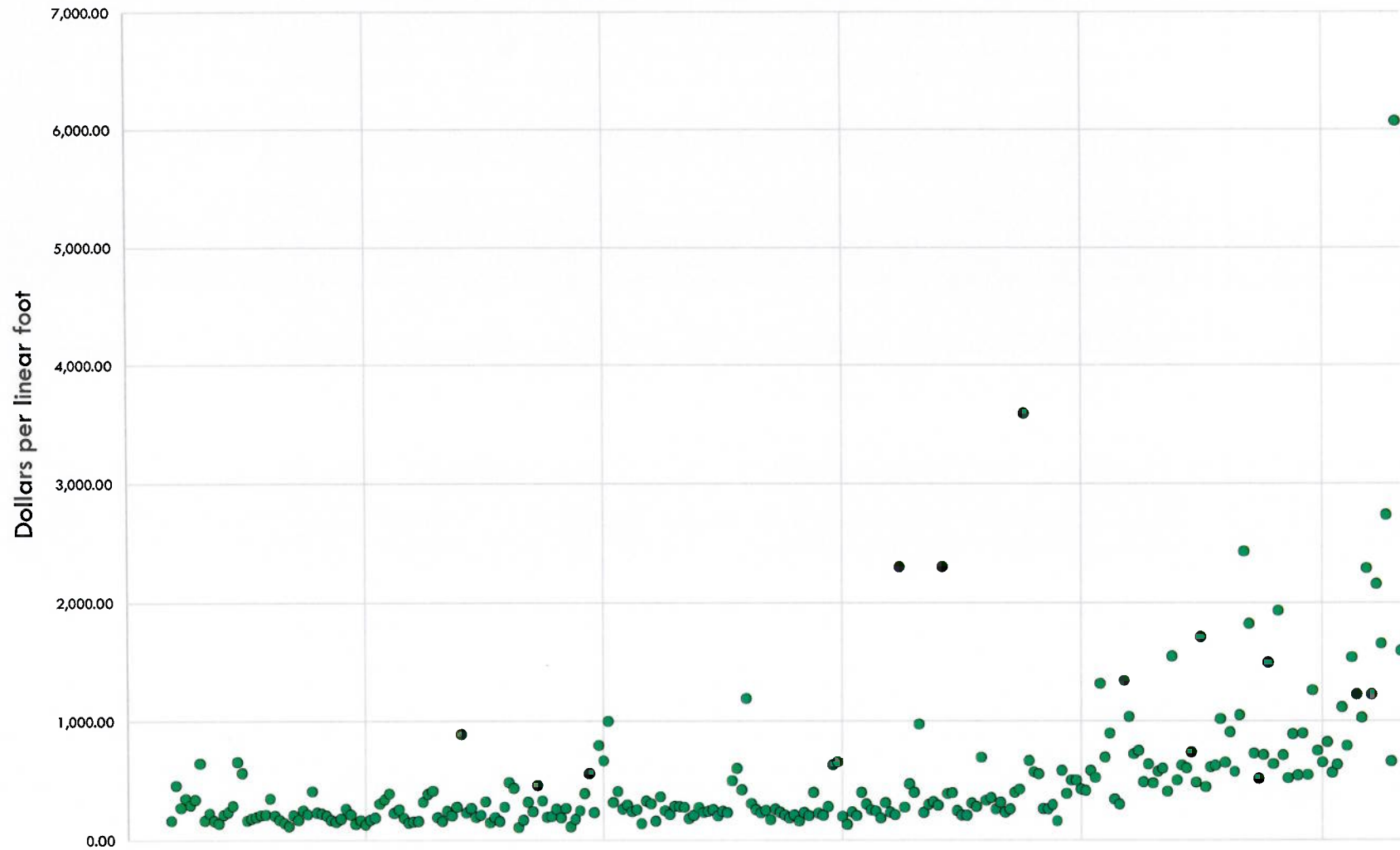
# Cummulative % Budget Execution by Quarter



## Awarded Price per Linear Foot FY1999-2023



# Awarded Price per Linear Foot FY1999-2023



# RESOLUTION 941, 2022 (ANNUAL BUDGET)

Appropriated \$181,109,325

Operating Fund:	\$58,851,325
Improvement Fund:	\$66,123,000
Special Expendable Fund:	\$27,250,000
Extramural Fund:	\$28,885,000

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		

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





# RESOLUTION 950, 2022 – AMENDMENT NO. 1

Appropriated \$184,076,325

Operating Fund:	\$52,351,325
Improvement Fund:	\$69,090,000
Special Expendable Fund:	\$33,750,000
Extramural Fund:	\$28,885,000

ADOPTION OF RESOLUTION NO. 950, 2022, AMENDING THE 2022-2023 CAPITAL IMPROVEMENT PROGRAM BUDGET AND APPROPRIATING FUNDS THEREFOR AND REVISION OF THE 2022-2023 CAPITAL IMPROVEMENT PROGRAM BUDGET – AMENDMENT NO. 1 WAS APPROVED ON SEPTEMBER 26, 2022			
	AYE	NO	COMMENT
BRYAN P. ANDAYA	X		
KAPUA SPROAT	X		
RAY C. SOON	X		
MAX J. SWORD	X		
NA'ALEHU ANTHONY	X		
JADE T. BUTAY	X		
DAWN B. SZEWCZYK	X		

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



# BUDGET AMENDMENT NO. 1

	Operating	Op. SRF Eligible	Special Ex.	Improvement	Extramural	Total
<b>Resolution No. 941, 2022</b>	<b>58,351,325</b>	<b>500,000</b>	<b>27,250,000</b>	<b>66,123,000</b>	<b>28,885,000</b>	<b>181,109,325</b>
<b>Amendment No. 1 (Resolution No. 950, 2022)</b>						
#16a KEOLU HILLS WATER SYSTEM IMPROVEMENTS, PART II				8,500,000		
#18a KALAMA VALLEY WATER SYSTEM IMPROVEMENTS, PART II				11,200,000		
#19a PALOLO WATER SYSTEM IMPROVEMENTS, PART III				10,500,000		
#20a PUIWA ROAD 12-INCH AND DOWSETT AVENUE 8-INCH MAINS				2,000,000		
#21a WAIOMAO HOMESTEAD ROAD 8-INCH MAIN				1,300,000		
#16 PALOLO WATER SYSTEM IMPROVEMENTS, PART IV				(11,000,000)		
#18 BARBERS POINT 215 WATER SYSTEMS IMPROVEMENTS				(1,200,000)		
#19 HALUPA STREET 12-INCH MAIN				(3,100,000)		
#20 KAHILINAI PLACE AND AIEA HEIGHTS DRIVE AREA WATER SYSTEM				(4,920,000)		
#21 MAILILI ROAD 20-INCH MAIN, PAAKEA ROAD TO LUALUALEI HOMESTEAD ROAD				(5,700,000)		
#22 KAKELA DRIVE AND MOHALA WAY WATER SYSTEM IMPROVEMENTS				(2,000,000)		
#31 NUUANU RESERVOIR NO. 1 DAM IMPROVEMENTS				(3,000,000)		
CONSTRUCTION COST INDEX ADJUSTMENT ACCOUNT				387,000		
CONTRACT ADJUSTMENT ACCOUNT	(6,500,000)		6,500,000			
<b>AMENDED TOTALS</b>	<b>51,851,325</b>	<b>500,000</b>	<b>33,750,000</b>	<b>69,090,000</b>	<b>28,885,000</b>	<b>184,076,325</b>

## Justification(s):

\$33.5M re-programming of projects originally budgeted in FY22, but contract awards were not made, no funds were encumbered, and funding lapsed.

\$387K addition to the Construction Cost Index Adjustment Account is needed to account for additional funding for construction projects.

\$30.92M reduction of funding for projects that are deferred to a future fiscal year.

\$6.5M shifting of Contract Adjustment Account funding from Operating to Special Expendable funds for contract change orders in FY23.



# BUDGET AMENDMENT NO. 2

	CIP: Operating	Op. SRF Eligible	Special Ex.	Improvement	Extramural	Total
<b>Amendment No. 1, Amended Totals</b>	<b>51,851,325</b>	<b>500,000</b>	<b>33,750,000</b>	<b>69,090,000</b>	<b>28,885,000</b>	<b>184,076,325</b>
<b>Amendment No. 2</b>						
#2 EXPLORATORY WELLS FOR RED HILL CONTAMINATION RESPONSE	(4,270,998)					
#5 CONSTRUCTION MANAGEMENT FOR VARIOUS BWS CONSTRUCTION PROJECTS	(729,002)					
<b>AMENDED CIP TOTALS</b>	<b>46,851,325</b>	<b>500,000</b>	<b>33,750,000</b>	<b>69,090,000</b>	<b>28,885,000</b>	<b>179,076,325</b>
<b>OPERATING BUDGET</b>						
<b>Amendment No. 1, Amended Total</b>	<b>237,240,444</b>					
FIXED CHARGES AND DEBT SERVICE (5990),	5,000,000					
ACCOUNT 4610: ELECTRIC POWER - WATER DISTRIBUTION FACILITIES						
<b>AMENDED OPERATING BUDGET TOTAL</b>	<b>242,240,444</b>					

## Justification(s):

Project #2 – The proposed amount remaining reflects total funding required for the construction of one (1) Aiea 497' Exploratory Well

Project #5 – The full amount of funding will not be required in FY23

Operating Budget: Fixed Charges and Debt Service (5590), Account 4610: Electric Power – Water Distribution Facilities – The proposed amount reflects additional funding required to cover projected electricity costs through June 30, 2023.



# BUDGET AMENDMENT NO. 3

	CIP: Operating	Op. SRF Eligible	Special Ex.	Improvement	Extramural	Total
<b>Amendment No. 2, Amended Totals</b>	<b>46,851,325</b>	<b>500,000</b>	<b>33,750,000</b>	<b>69,090,000</b>	<b>28,885,000</b>	<b>179,076,325</b>
<b>Amendment No. 3</b>						
#27 KAPOLEI PARKWAY 24-INCH R-1 WATER MAIN	500,000	(500,000)				
#3 MONITORING WELLS FOR RED HILL CONTAMINATION RESPONSE	(3,228,250)					
#16a KEOLU HILLS WATER SYSTEM IMPROVEMENTS, PART II				(8,500,000)		
CONTRACT ADJUSTMENT ACCOUNT	3,228,250			8,500,000		
<b>AMENDED CIP TOTALS</b>	<b>47,351,325</b>	<b>-</b>	<b>33,750,000</b>	<b>69,090,000</b>	<b>28,885,000</b>	<b>179,076,325</b>
<b>OPERATING BUDGET</b>	<b>Amendment No. 3, Amended Total</b>	<b>242,240,444</b>				

## Justification(s):

Project #27 – The subject project was mis-characterized as a project to be submitted for Clean Water State Revolving Fund Loan proceeds. This correction does not modify any appropriations or reallocate funding.

Project #3 – The projects are planned for FY24.

Project #16a – The project is being deferred to a future fiscal year.

Contract Adjustment Account – Additional funding is required to complete projects due to continued supply chain issues and an increase in inflation.



# BUDGET AMENDMENT NO. 4

	CIP: Operating	Op. SRF Eligible	Special Ex.	Improvement	Extramural	Total
<b>Amendment No. 3, Amended Totals</b>	<b>47,351,325</b>	<b>-</b>	<b>33,750,000</b>	<b>69,090,000</b>	<b>28,885,000</b>	<b>179,076,325</b>
<b>Amendment No. 4</b>						
#5 CONSTRUCTION MANAGEMENT FOR VARIOUS BWS CONSTRUCTION PROJECTS	(1,270,998)					
#25 WATER MAIN INSTALLATION & REPLACEMENT	(50,000)					
#28 SERVICE LATERALS OF UNKNOWN MATERIALS REPLACEMENT	(100,000)					
#29 WATER MAIN INSTALLATION & REPLACEMENT	(50,000)					
#41 PROFESSIONAL SERVICES FOR BWS PROJECTS	(200,000)					
CONTRACT ADJUSTMENT ACCOUNT	1,670,998					
<b>AMENDED CIP TOTALS</b>	<b>47,351,325</b>	<b>-</b>	<b>33,750,000</b>	<b>69,090,000</b>	<b>28,885,000</b>	<b>179,076,325</b>
<b>OPERATING BUDGET</b>	<b>Amendment No. 4, Amended Total</b>	<b>242,240,444</b>				

## Justification(s):

The funding for the following projects is no longer required: #5, #25, #28, #29 and #41.

Contract Adjustment Account – Additional funding is required to complete projects due to continued economic uncertainty and volatility.



ITEM FOR INFORMATION NO. 5

“August 28, 2023

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

Five aquifer index stations were in low groundwater condition for the production month of July 2023. Pearl City, Kaluanui and Waialua are in Caution Status. Kaimuki and Punaluu are in Alert Status. The monthly production average for July 2023 was 139.12 million gallons per day.

The Board of Water Supply rainfall index for the month of July 2023 was 69 percent of normal, with a 5-month moving average of 97 percent. As of August 1, 2023, the Hawaii Drought Monitor shows abnormally dry conditions along the southern coast of Oahu. The National Weather Service is forecasting below-normal precipitation through February 2024.

Most monitoring wells exhibited decreasing head levels for the month of July 2023, likely reflecting the typical increase in summer production combined with the consecutive months of lower-than-average rainfall. Average monthly production for July 2023 was lower than in July 2022, and lower than 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. There were no comments or discussion.

Manager Lau stated that rainfall is a big factor in groundwater. He believes that the people are starting to heed the call of water conservation and treating our water resources as a precious gift. Manager Lau mentioned that the BWS will continue with water conservation since dry conditions are expected to continue until February 2024.

Mr. Barry Usagawa thanked the Communications Office for the conservation messaging efforts.

**PRODUCTION, HEAD AND RAINFALL REPORT  
MONTH OF JULY 2023**

**POTABLE**

STATION	MGD
HONOLULU (1)	
KULIOUOU	0.06
WAILUPE	0.11
AINA KOA	0.00
AINA KOA II	0.59
MANOA II	0.92
PALOLO	0.99
KAIMUKI HIGH	2.49
KAIMUKI LOW	2.84
WILDER	8.85
BERETANIA HIGH	0.83
BERETANIA LOW	2.26
KALIHI HIGH	3.53
KALIHI LOW	4.91
KAPALAMA	0.48
KALIHI SHAFT	7.74
MOANALUA	2.63
HALAWA SHAFT	0.00
KAAMILO	0.97
KALAUAO	8.96
PUNANANI	9.58
KAHUMANU	0.36
HECO WAIU	0.24
MANANA	0.41
WAIALAE IKI	0.54
WELLS SUBTOTAL:	60.32
MANOA TUNNEL	0.17
PALOLO TUNNEL	0.00
GRAVITY SUBTTL:	0.17
HONOLULU SUBTTL:	60.49

STATION	MGD
WINDWARD (2)	
WAIMANALO II	0.26
WAIMANALO III	0.00
KUOU I	0.00
KUOU II	0.78
KUOU III	0.78
LULUKU	0.87
HAIKU	0.31
IOLEKAA	0.00
KAHALUU	0.68
KAHANA	0.64
PUNALUU I	0.00
PUNALUU II	4.71
PUNALUU III	0.00
KALUANUI	1.94
MAAKUA	0.30
HAUULA	0.26
WELLS SUBTOTAL:	11.52
WAIM. TUNNELS I & II	0.00
WAIM. TUNNELS III&IV	0.19
WAIHEE INCL. WELLS	0.66
WAIHEE TUNNEL	3.84
LULUKU TUNNEL	0.14
HAIKU TUNNEL	0.33
KAHALUU TUNNEL	1.25
GRAVITY SUBTOTAL:	6.40
WIND. SUBTOTAL:	17.92

STATION	MGD
NORTH SHORE (3)	
KAHUKU	0.42
OPANA	0.86
WAIALEE I	0.29
WAIALEE II	0.69
HALEIWA	0.00
WAIALUA	1.99
N.SHORE SUBTOTAL:	4.25

STATION	MGD
MILILANI (4)	
MILILANI I	1.37
MILILANI II	0.00
MILILANI III	0.73
MILILANI IV	2.18
MILILANI SUBTOTAL:	4.28

STATION	MGD
WAHIAWA (5)	
WAHIAWA	1.63
WAHIAWA II	0.99
WAHIAWA SUBTOTAL:	2.62

STATION	MGD
PEARL CITY-HALAWA (6)	
HALAWA 277	0.00
HALAWA 550	0.00
AIEA	0.00
AIEA GULCH 497	0.00
AIEA GULCH 550	0.20
KAONOHI I	1.41
WAIMALU I	0.00
NEWTOWN	1.83
WAIU	1.91
PEARL CITY I	0.84
PEARL CITY II	1.11
PEARL CITY III	0.17
PEARL CITY SHAFT	0.90
PEARL CITY-HALAWA SUBTOTAL:	8.37

STATION	MGD
WAIPAHU-EWA (7)	
WAIPIO HTS.	1.91
WAIPIO HTS. I	0.00
WAIPIO HTS. II	0.32
WAIPIO HTS. III	1.09
WAIPAHU	6.74
WAIPAHU II	2.03
WAIPAHU III	3.91
WAIPAHU IV	2.94
KUNIA I	2.47
KUNIA II	1.82
KUNIA III	1.38
HOAEAE	7.57
HONOULIULI I	0.91
HONOULIULI II	2.88
MAKAKILO	0.16
WAIPAHU-EWA SUBTOTAL:	36.14

STATION	MGD
WAIANAE (8)	
MAKAHA I	0.93
MAKAHA II	0.00
MAKAHA III	0.51
MAKAHA V	0.82
MAKAHA VI	0.00
MAKAHA SHAFT	0.00
KAMAILE	0.07
WAIANAE I	0.29
WAIANAE II	0.22
WAIANAE III	0.67
WELLS SUBTOTAL:	3.52
WAI. C&C TUNNEL	1.40
WAI. PLANT. TUNNELS	0.13
GRAVITY SUBTOTAL:	1.53
WAIANAE SUBTOTAL:	5.04

**NONPOTABLE**

NONPOTABLE	MGD
KALAUAO SPRINGS	0.48
BARBERS POINT WELL	1.21
GLOVER TUNNEL NP	0.31
NONPOTABLE TOTAL:	2.00

**RECYCLED WATER (JUNE 2023)**

RECYCLED WATER	MGD
HONOULIULI WRF R-1	6.20
HONOULIULI WRF RO	1.30
RECYCLED TOTAL:	7.50

**PRODUCTION, HEAD AND RAINFALL REPORT  
MONTH OF JULY 2023**

**PRODUCTION SUMMARIES**

TOTAL WATER	MGD
PUMPAGE	131.02
GRAVITY	8.10
POTABLE TOTAL:	139.12
NONPOTABLE	2.00
RECYCLED WATER	7.50
TOTAL WATER:	148.62

CWRM PERMITTED USE AND BWS ASSESSED YIELDS FOR BWS POTABLE SOURCES				
WATER USE DISTRICTS		A	B	C
		PERMITTED USE/ BWS YLDS	JUL 2022	DIFF. A-B
1	HONOLULU	83.32	60.32	23.00
2	WINDWARD	25.02	17.92	7.10
3	NORTH SHORE	4.70	4.25	0.44
4	MILILANI	7.53	4.28	3.25
5	WAHIAWA	4.27	2.62	1.65
6	PEARL CITY-HALAWA	12.25	8.37	3.88
7	WAIPAHU-EWA	50.63	36.14	14.49
8	WAIANAE	4.34	5.04	-0.70
TOTAL:		192.06	138.95	53.11

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

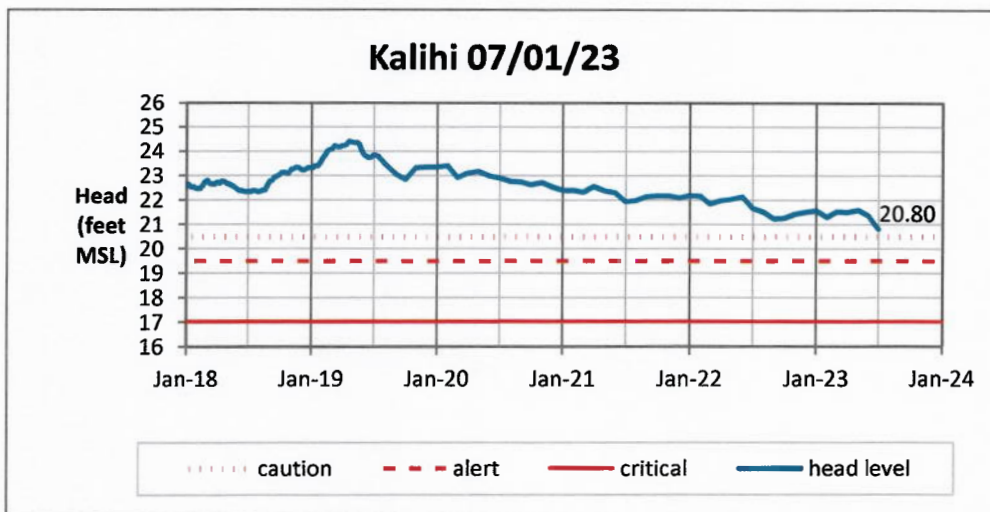
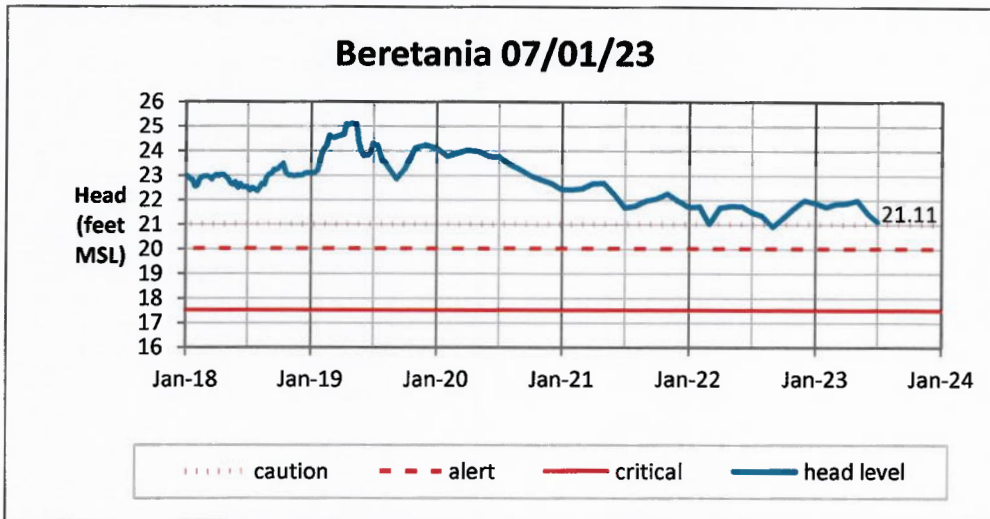
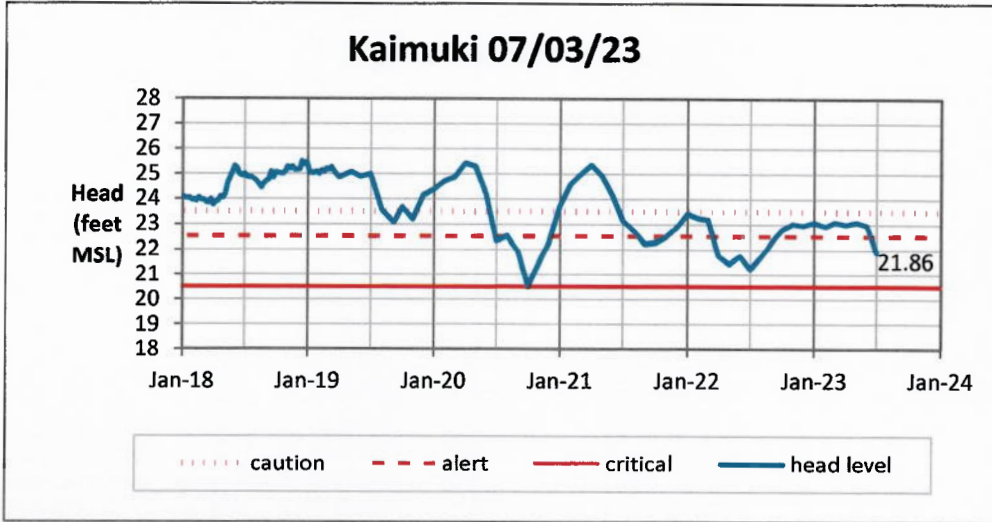
**EFFECTIVE WATER DEMAND PER DISTRICT**

IMPORT/EXPORT BETWEEN WATER USE DISTRICTS			
FROM	TO		MGD
2	1	WINDWARD EXPORT	0.01
7	8	BARBERS PT LB	4.81

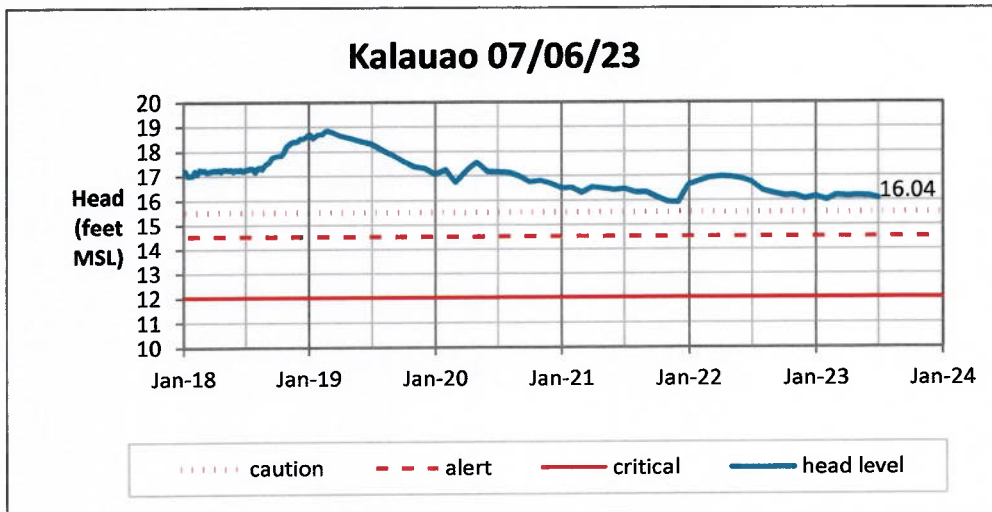
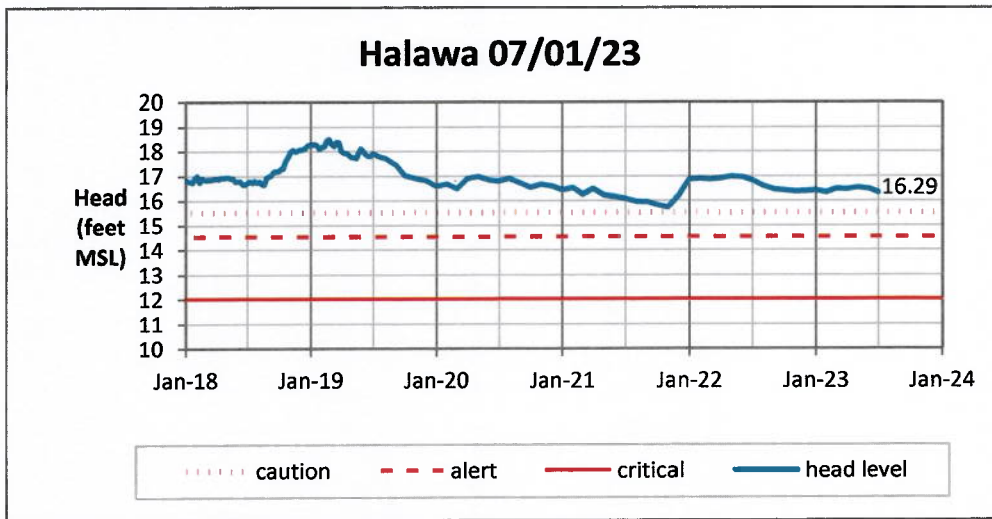
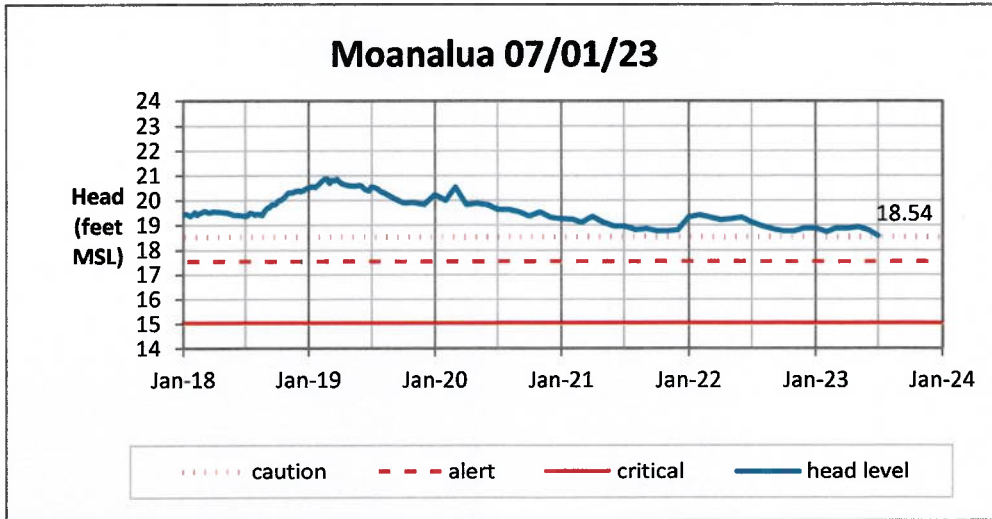
WATER USE DISTRICTS		SUBTOTAL	IMPORT	EXPORT	EFFECTIVE WATER DEMAND
1	HONOLULU	60.49	0.01	-	60.50
2	WINDWARD	17.92	-	0.01	17.91
3	NORTH SHORE	4.25	-	-	4.25
4	MILILANI	4.28	-	-	4.28
5	WAHIAWA	2.62	-	-	2.62
6	PEARL CITY-HALAWA	8.37	-	-	8.37
7	WAIPAHU-EWA	36.14	-	4.81	31.34
8	WAIANAE	5.04	4.81	-	9.85
TOTAL:		139.12	4.82	4.82	139.12



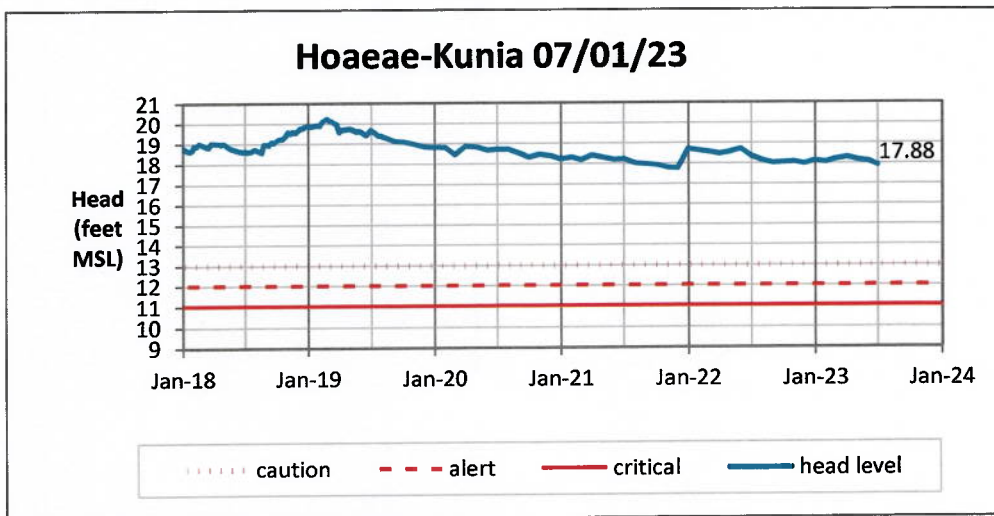
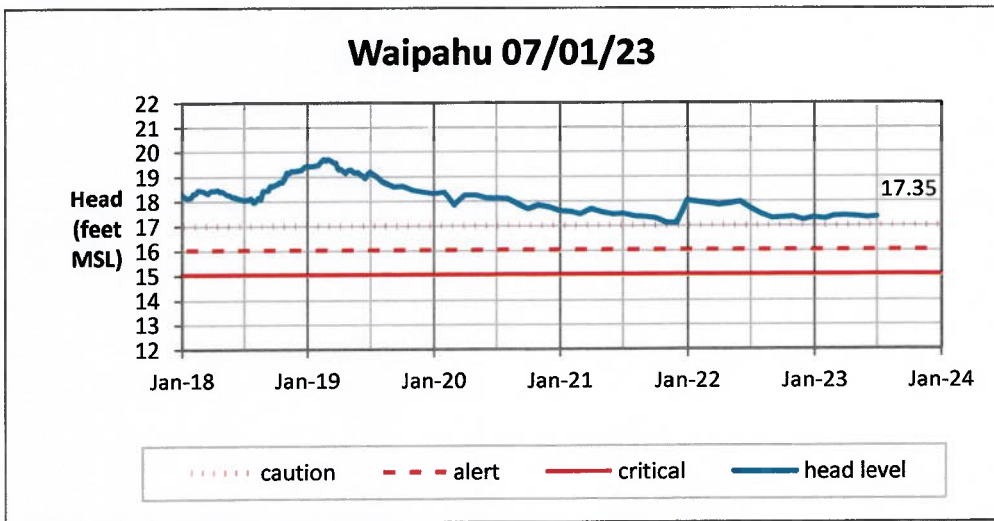
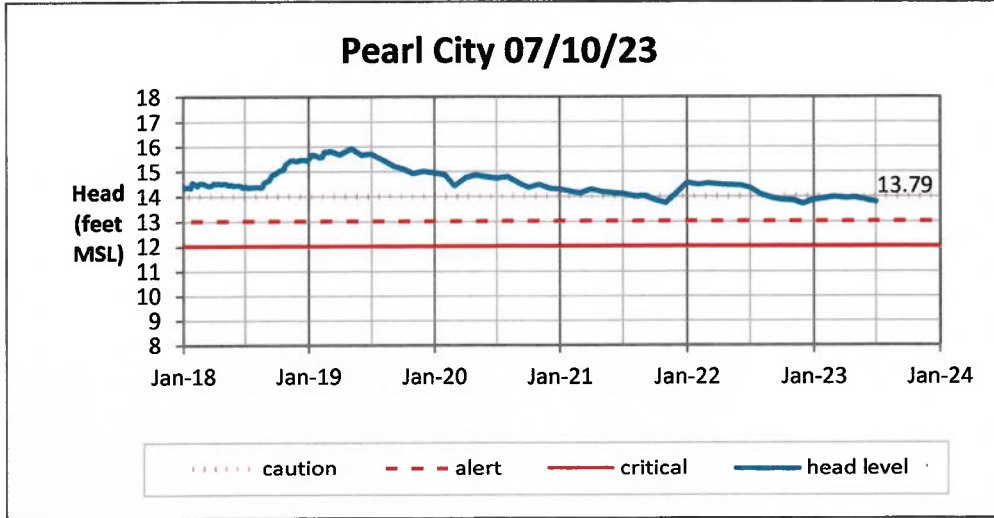
# Head Report



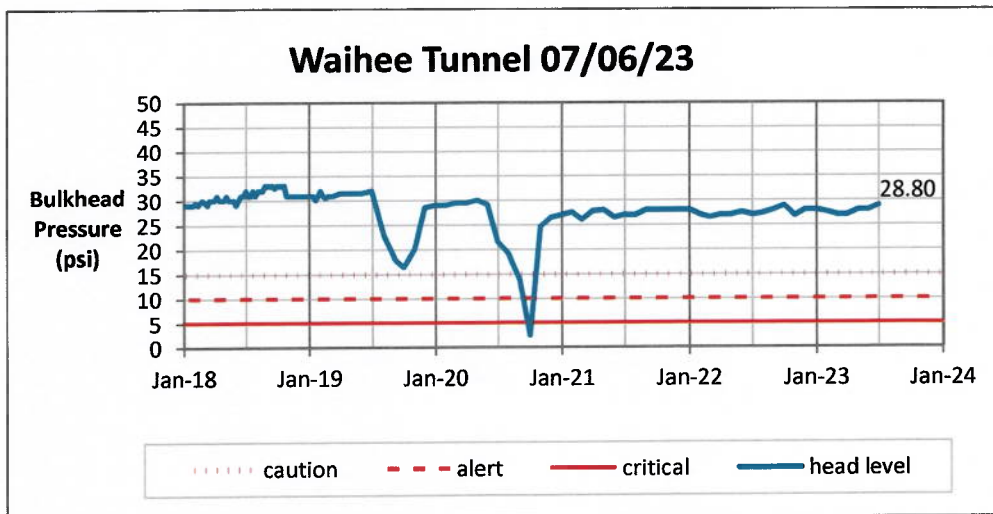
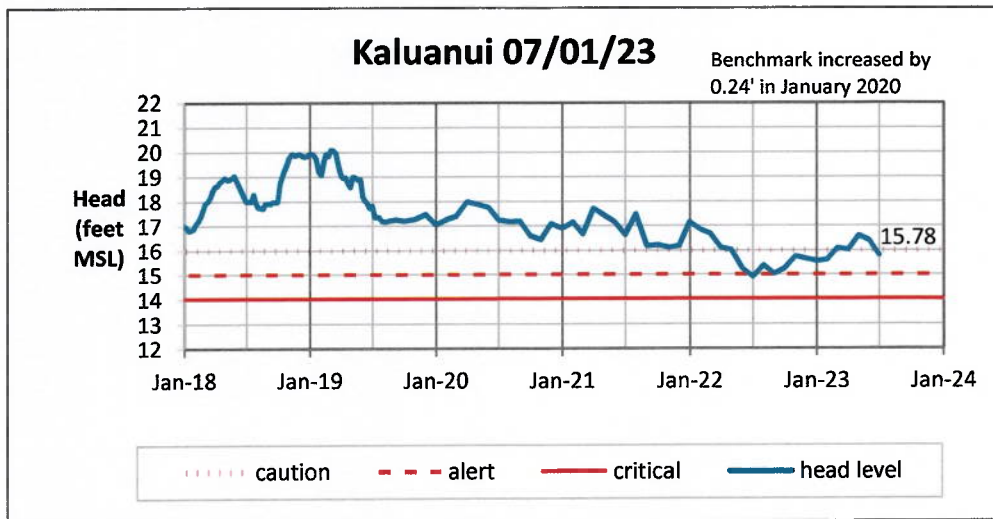
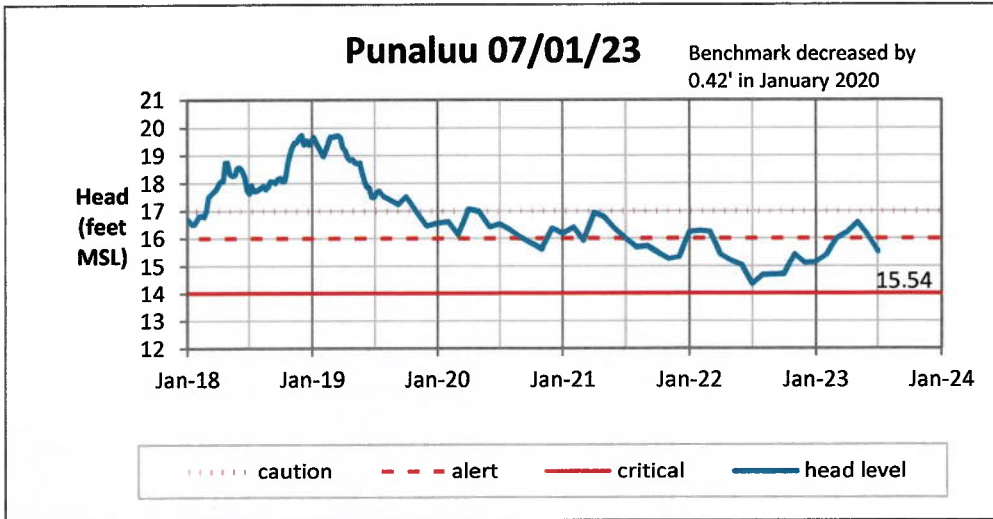
# Head Report



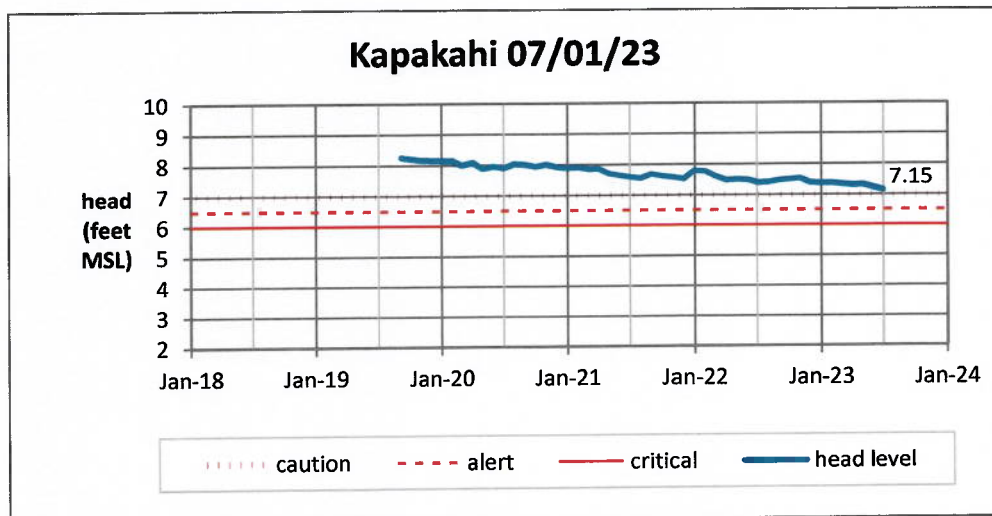
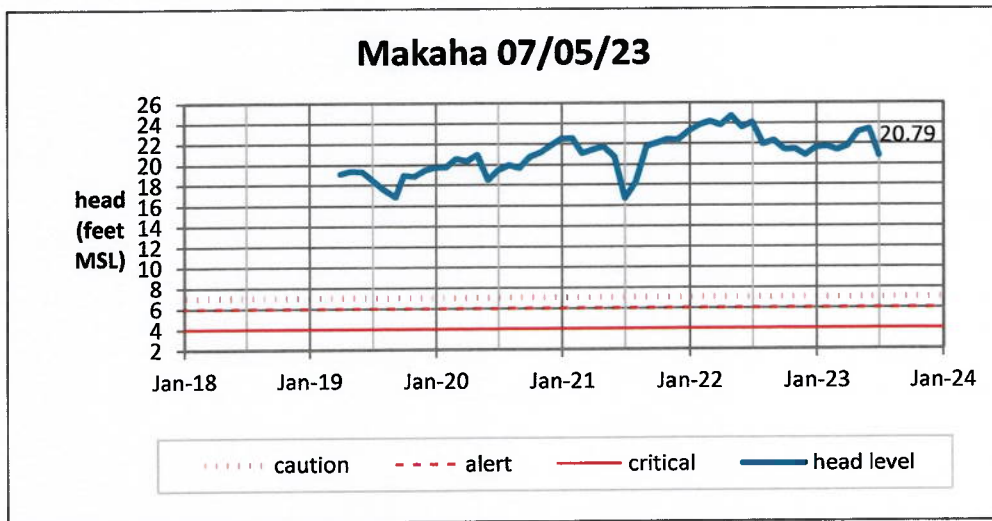
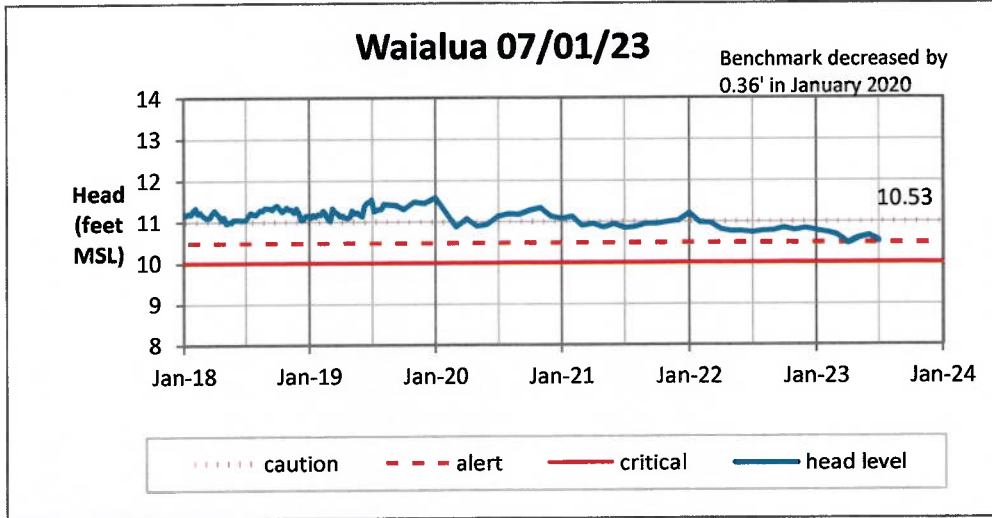
# Head Report

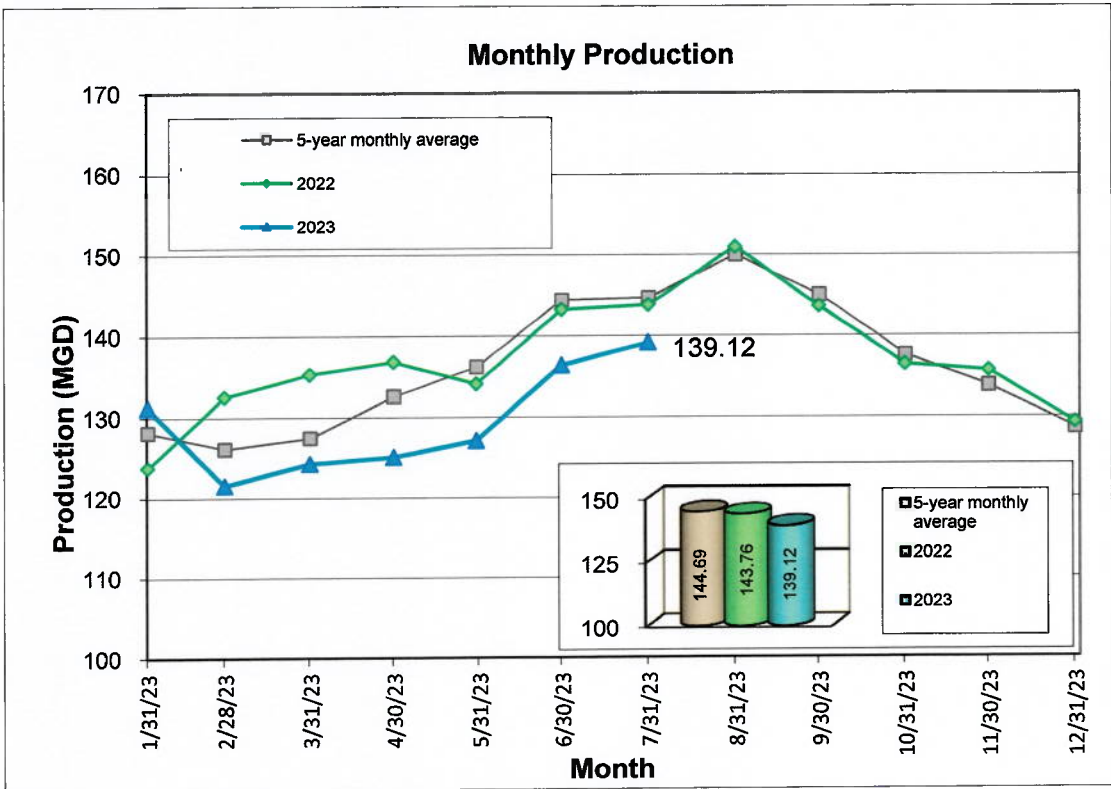
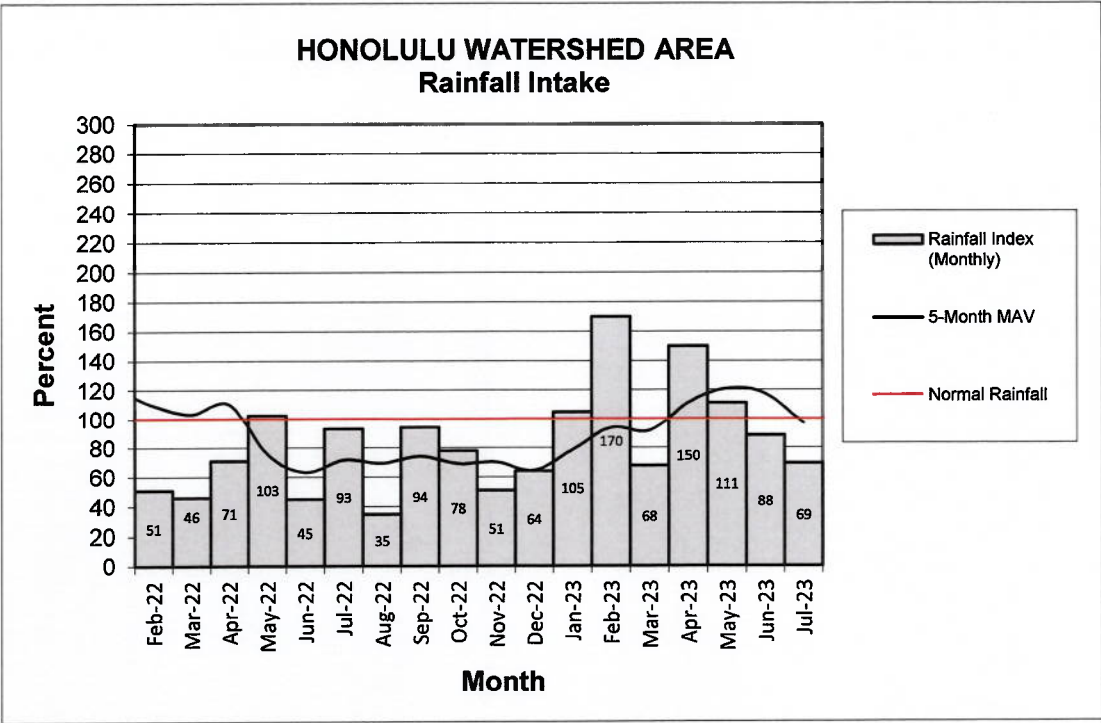


# Head Report



# Head Report





ITEM FOR INFORMATION NO. 6

“August 28, 2023

WATER MAIN  
REPAIR  
REPORT FOR  
JULY 2023

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

Chair and Members:

Subject: Water Main Repair Report for July 2023

Jason Nikaido, Program Administrator, Field Operations Division, will report on water main repair work for the month of July 2023.

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.

Manager Lau asked how many of the nine main leaks were repaired before it became a main break.

Mr. Jason Nikaido responded that seven of the nine were repaired before it became a main break, which was identified after it was matched to the point of interest (POI).

Board Member Sword inquired how the BWS determines that the pipe needs to be changed.

Mr. Jason Nikaido responded that when a leak pattern is determined, the Field Operations (FO) Division recommends that the CP Division replace that pipeline area.

Board Member Sword asked if the amount of water leakage determines what is replaced or repaired.

Manager Lau replied that the leak history is an important factor. He explained that each pipe segment that experiences a leak is scored by its potential risk. Each pipe segment risk score determines which pipeline will take priority in the 2100 miles of pipeline the BWS maintains.

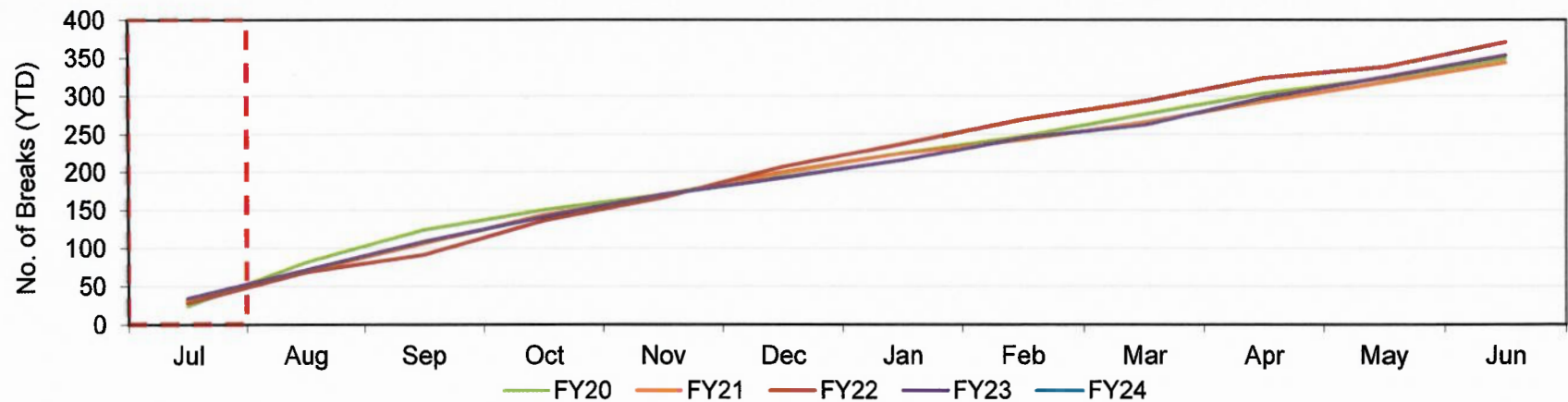
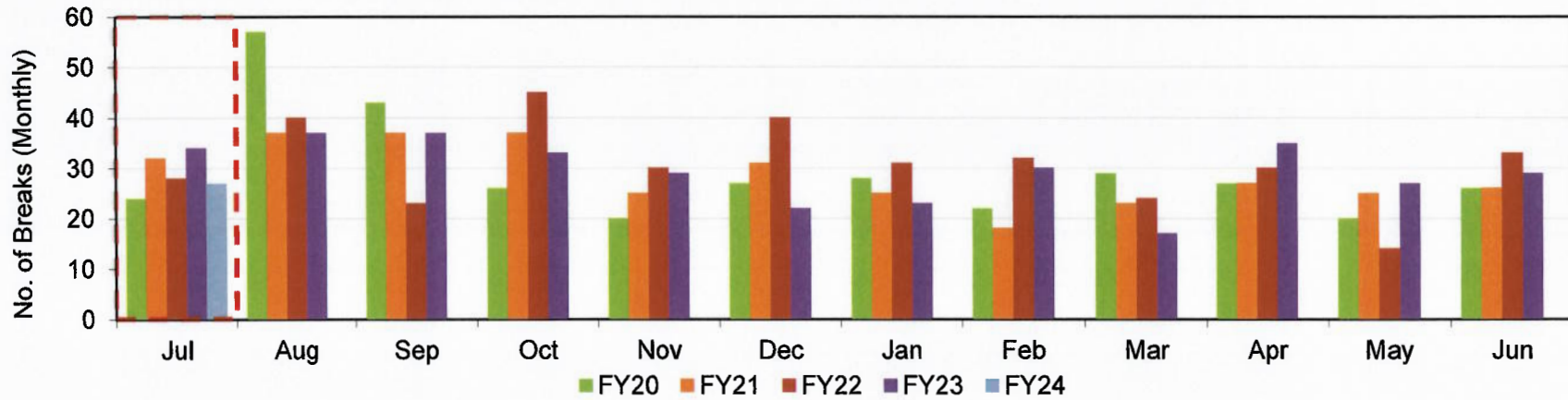
Mr. Nikaido added that main breaks are used to feed into the Water Master Plan and the predictive model to calculate the risk scores for all the pipes.



**WATER MAIN REPAIR REPORT  
for July 2023**

**Monthly Main Breaks**

FY	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
2024	27												27
2023	34	37	37	33	29	22	23	30	17	35	27	29	353
2022	28	40	23	45	30	40	31	32	24	30	14	33	370
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

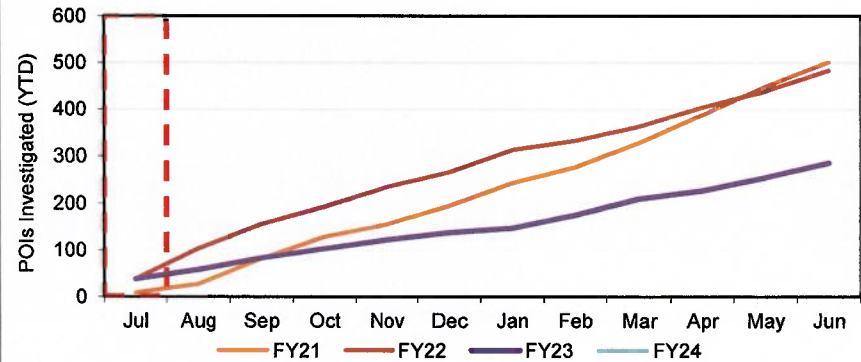
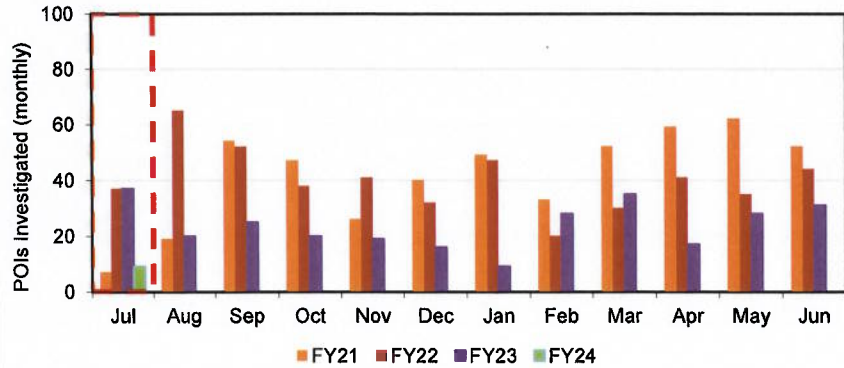


Date	Address	Size (In)	Pipe Type
7/1/2023	2188 Kamehameha Hwy, Honolulu	6	CI
7/2/2023	176 Kaai St, Honolulu	6	CI
7/3/2023	94-207 Waipahu St, Waipahu	4	CI
7/3/2023	2369 Metcalf St, Honolulu	6	CI
7/3/2023	646 Wyllie St, Honolulu	6	CI
7/4/2023	2118 Kono Pl, Honolulu	8	CI
7/5/2023	2845 Lowrey Ave, Honolulu	8	PVC
7/6/2023	92 Kaluhea St, Wahiawa	8	CI
7/6/2023	944 18th Ave, Honolulu	4	GALV
7/6/2023	1503 Kalauipo St, Pearl City,	8	CI
7/7/2023	1619 Lehia St, Honolulu	8	CI
7/11/2023	1359 Ainapua St, Honolulu	8	CI
7/12/2023	67-134 Kuhi St, Waiialua	8	CI
7/14/2023	94-968 Awamoku Pl, Waipahu	6	CI
7/16/2023	170 Mookua St, Kailua,	6	CI
7/17/2023	91-073 Hanua St, Kapolei	12	AC
7/17/2023	2908 Loi St, Honolulu	8	PVC
7/17/2023	838 Pohukaina St, Honolulu	8	CI
7/19/2023	1932 Kealakai St, Honolulu	8	CI
7/22/2023	47-503 Hui Kelu St, Kaneohe	8	DI
7/22/2023	133 Puiwa Rd, Honolulu,	8	CI
7/25/2023	59-624 Pupukea Rd, Haleiwa	12	CI
7/25/2023	1025 Malua Dr, Honolulu	8	CI
7/27/2023	1431 Akialoa Pl, Kailua	8	CI
7/27/2023	836 Hoomalu St, Pearl City	8	CI
7/30/2023	1299 Hart St, Honolulu	16	CI
7/31/2023	61-470 Kamehameha Hwy, Haleiwa	6	CI

**LEAK DETECTION  
for July 2023**

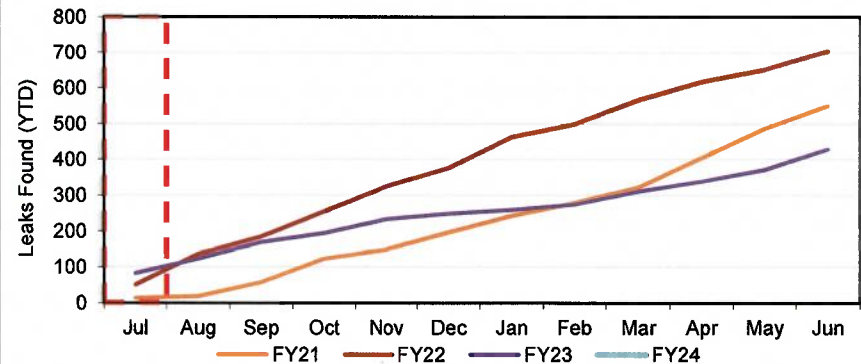
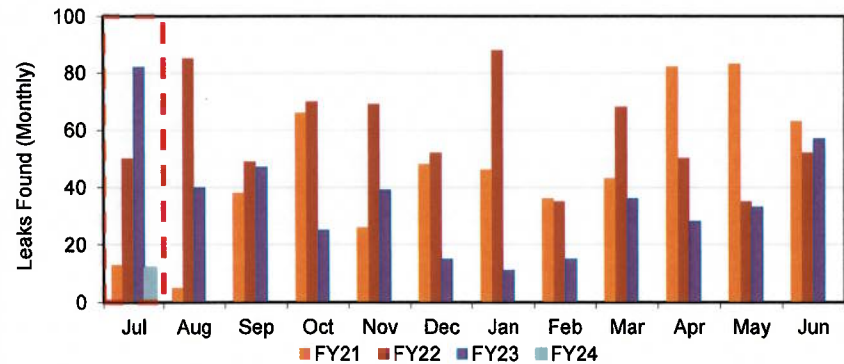
**POIs Investigated**

FY	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
<b>2024</b>	<b>9</b>												<b>9</b>
2023	37	20	25	20	19	16	9	28	35	17	28	31	285
2022	37	65	52	38	41	32	47	20	30	41	35	44	482
2021	7	19	54	47	26	40	49	33	52	59	62	52	500



**Leaks Found**

FY	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
<b>2024</b>	<b>12</b>												<b>12</b>
2023	82	40	47	25	39	15	11	15	36	28	33	57	428
2022	50	85	49	70	69	52	88	35	68	50	35	52	703
2021	13	5	38	66	26	48	46	36	43	82	83	63	549



MOTION TO  
ADJOURN

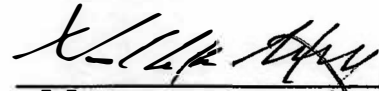
There being no further business, Chair Anthony, at 3:18 PM, called for a motion to adjourn the Regular Session. Max Sword so moved; seconded by Gene Albano, and unanimously carried.

The Minutes of the Public Hearing and Regular Meeting held on August 28, 2023, are respectfully submitted,

THE MINUTES OF THE PUBLIC HEARING AND REGULAR MEETING HELD ON AUGUST 28, 2023, WAS APPROVED AT THE SEPTEMBER 25, 2023, BOARD MEETING			
	AYE	NO	COMMENT
NĀ'ĀLEHU ANTHONY	X		
KAPUA SPROAT			ABSTAIN
BRYAN P. ANDAYA	X		
MAX J. SWORD	X		
JONATHAN KANESHIRO			ABSTAIN
EDWIN H. SNIFFEN			ABSENT
GENE C. ALBANO	X		

  
 \_\_\_\_\_  
 JOY CRUZ-ACHIU

APPROVED:

  
 \_\_\_\_\_  
 NĀ'ĀLEHU ANTHONY  
 Chair of the Board  
 SEP 25 2023  
 \_\_\_\_\_  
 Date