

BOARD OF WATER SUPPLY

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



July 19, 2022

RICK BLANGIARDI, MAYOR

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

JADE T. BUTAY, Ex-Officio
DAWN B. SZEWCZYK, P.E., Ex-Officio

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

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

NOTICE

The Board of Water Supply, City and County of Honolulu, will hold a Regular Meeting on Monday, July 25, 2022, at 2:00 p.m. in the Boardroom, Public Service Building, 630 South Beretania Street, Honolulu, Hawaii.

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

TESTIMONY

Testimony can be submitted as follows:

- Written testimony may be emailed to board@hbws.org or faxed to (808) 748-5079. Testimony is requested by Monday, July 25, 2022, at noon. Written testimonies should include the submitter's address, email address, and phone number. Written testimony will be posted to the BWS website at boardofwatersupply.com.
- Mail written testimony to Board of Water Supply, 630 S. Beretania St., Honolulu, HI 96843. Testimony is requested by Monday, July 25, 2022, at noon.
- On-line testimony will be accepted at boardofwatersupply.com/testimony. Fill out the testimony form. It is requested by Monday, July 25, 2022, at noon.
- Telephone testimony will be accepted during the meeting at (808) 748-6040. Callers will be placed in a queue and brought up to testify one at a time.
- In-person testimony will be accepted during the meeting in the Board Room at the Board of Water Supply. In-person testifiers should check-in at the Lobby of the Public Service Building, 630 S. Beretania St. Honolulu, HI 96843 and they will be brought into the Board Room to present their testimony.

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

MATERIALS AVAILABLE FOR INSPECTION

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

VIEWING THE MEETING

The meeting will be viewable via live streaming on:

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

SPECIAL REQUESTS AND ACCOMMODATIONS

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

The agenda for the July 25, 2022, Regular Meeting of the Board of Water Supply is as follows:

ITEMS REQUIRING BOARD ACTION

1. Approval of the Minutes of the Regular Meeting Held on June 27, 2022
2. Adoption of Resolution No. 944, 2022, Acceptance of Gift to the Board of Water Supply from Hardware Hawaii to Support the Board of Water Supply's Conservation Efforts
3. Election of the Chair and Vice Chair of the Board of Water Supply Beginning July 1, 2022

ITEMS FOR INFORMATION

1. Update on the Board of Water Supply's Response to the Potential Impacts of the Red Hill Fuel Contamination
2. Draft Board of Water Supply Strategic Plan Report and Presentation of Report and Recommendations to the Board by the HRS §92-2.5 Permitted Interaction Group
3. Update on Fee Waivers for Affordable, Homeless and Automatic Fire Sprinkler Retrofit Projects
4. Recruitment Status
5. Status Update of Groundwater Levels at All Index Stations
6. Water Main Repair Report for June 2022

EXECUTIVE SESSION

1. Approval of the Minutes of the Executive Session Held on June 27, 2022
2. To Consult with the Board's Attorney on Questions and Issues Pertaining to the Board's Powers, Duties, Privileges, Immunities, and Liabilities Pertaining to Matters Concerning the Kalawahine 2.0 MG Reservoir and Connecting Pipelines [HRS §92-5(a)(4)]

MINUTES

THE REGULAR MEETING OF THE BOARD OF WATER SUPPLY

July 25, 2022

At 2:00 PM on July 25, 2022, in the Board Room of the Public Service Building at 630 South Beretania Street, Honolulu, Hawaii, Board Chair Andaya called to order the Regular Meeting.

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

Also Present: Ernest Lau, Manager and Chief Engineer
Ellen Kitamura, Deputy Manager and Chief Engineer
via WebEx
Jason Takaki, Program Administrator,
Capital Projects Division via Vimeo
Jadine Urasaki, Assistant Program Administrator,
Capital Projects Division via Vimeo
Jennifer Elfein, Program Administrator,
Customer Care Division via WebEx
Kathleen Elliott-Pahinui, Information Officer,
Communications Office via WebEx
Raelynn Nakabayashi, Executive Assistant I,
Executive Support Office via Vimeo
Wayne Tello, Water Service Superintendent,
Field Operations Division via WebEx
Joseph Cooper, Waterworks Controller,
Finance Division via Vimeo
Michele Thomas, Executive Assistant I,
Human Resources Office via WebEx
Ron Wada, Assistant Program Administrator,
Information Technology Division
via Vimeo
Michael Matsuo, Land Administrator, Land Division
via Vimeo
Erwin Kawata, Program Administrator,
Water Quality Division via WebEx
Barry Usagawa, Program Administrator,
Water Resources Division via WebEx
Kevin Ihu, Program Administrator,
Water System Operations Division
via Vimeo

Kathy Mitchell, Administrative Services Officer
via Vimeo
Deanna Thyssen, Manager's Secretary via WebEx
Joy Cruz-Achiu, Board Secretary
Steven Norstrom, Information Specialist II,
Communications Office
Stella Bernardo, Information Specialist II,
Communications Office via WebEx
Michele Harman, Community Relations Specialist I,
Communications Office via WebEx
Keoni Mattos, Information Specialist II,
Communications Office via WebEx

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

REGULAR MEETING

Chair Bryan Andaya welcomed everyone to the July 25, 2022, Regular Meeting of the Board of Water Supply (BWS). He stated that he was joining the meeting via WebEx. Before beginning the meeting he went over a few meeting regulations required by law. Board Members attending the Board Meeting remotely must be visible to the public to be considered present and meet quorum guidelines. He also stated that during roll call Board Members participating remotely must disclose their location and anyone that may be present at their location.

Chair Andaya announced that the public would be allowed to attend Board Meetings at the BWS, Public Service Building, 630 S. Beretania Street, Honolulu, HI 96843, via interactive conference technology.

Chair Andaya requested a roll call for the Regular Meeting and asked those participating remotely to keep their cameras on during the meeting to comply and meet quorum guidelines. Chair Andaya asked each Board Member to respond verbally and state who is present in the room if participating via WebEx when their names were called. Vice Chair Kapua Sproat, aye and alone at her current location; Board Member Ray Soon; aye and in the Board room; Board Member Na'alehu Anthony, aye and alone at his current location; Board member Jade Butay, aye, and alone at his current location; and Board Member Dawn Szewczyk, aye and with staff at her current location.

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

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

Chair Andaya stated that the Board of Water Supply (BWS) is dedicated to providing safe, dependable, and affordable water now and into the future.

The following procedures are in effect for the meeting:

Chair Andaya shared the various ways to submit testimony: Written testimony may be submitted by email to board@hbws.org, by fax to (808) 748-5079; mailed to Board of Water Supply, 630 S. Beretania St., Honolulu, HI 96843; or online at the boardofwatersupply.com/testimony, which were all due on Monday, July 25, 2022, at noon. However, late testimony will be accepted by email, fax, or mail. Telephone testimony is accepted by calling (808)748-6040, where you will be put in the queue and allowed to testify one at a time. In-person testimony is being accepted at the Board of Water Supply, Public Service Building located at 630 S. Beretania St. Honolulu, HI 96843. Pursuant to HRS Section 92-7.5, Board Meeting materials are available to view on our website at www.boardofwatersupply.com/boardmeeting.

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

Chair Andaya announced that he would be taking the agenda out of order, starting with item for information, item number one, "Update on the Board of Water Supply's Response to the Potential Impacts of the Red Hill Fuel Contamination".

ITEM FOR INFORMATION NO. 1

"July 25, 2022

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

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

Respectfully Submitted,

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

Attachment"

The foregoing was for information only.

DISCUSSION:

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

At 2:10 PM, Board Member Max Sword joined the Board meeting in the Boardroom.

Board Member Max Sword recalls in a previous meeting that it was mentioned that the BWS spoke with Hawaii Restaurant Association regarding serving water at restaurants. He shared that while visiting restaurants he observed that water was still being served to customers, even without customer request.

Ms. Kathleen Elliott-Pahinui replied that the BWS would reiterate what was discussed with the organization.

Manager Ernest Lau asked Ms. Elliott-Pahinui to share the telephone number where people can call to report any misuse of water.

Ms. Elliott-Pahinui shared that the telephone number to contact for any misuse of water is 808-748-5041.

Board Member Soon inquired if there was any update on Red Hill.

Manager Lau responded that the Department of Health (DOH) Emergency Order required the United States (U.S.) Navy to submit a Command Investigation Report and Red Hill Shaft Defueling Plan by June 30, 2022. The Command Investigation Report is a critical part of learning what may have caused the May and November 2021 Red Hill fuel release. The report is 200 pages long and identified various measures including pressure surges. The Red Hill Defueling Plan submitted to DOH was approximately 19 pages and would allow the U.S. Navy to complete its defueling by 2024. The DOH found the Red Hill Defueling Plan inadequate because it didn't comply with the Emergency Order and lacked detailed information such as specific procedures and costs. However, the U.S. Navy mentioned in a prior meeting that an updated plan would be presented in August 2022.

Manager Lau reminded everyone that the Red Hill Bulk Fuel Storage was built within three years, 1940 to 1943. He commented that it is very troubling that the Red Hill Defueling Plan didn't provide detailed tasks and projects to safely defuel the facility. The longer the delay in submitting a plan and getting it approved by the DOH prolongs the defueling process.

Board Member Na'alehu Anthony encouraged everyone to watch the Legislative Hearing that was live on Tuesday, July 19, 2022. The Legislative Hearing provided a lot of information regarding the lack of critical analysis. One that Board Member Anthony pointed out was that when the U.S. Navy was asked, "how long would it take fuel to naturally degrade to lower levels in the aquifer?", the U.S. Navy Engineer responded it could take 20 to 40 years for fuel to fully decay and the recovery at Red Hill will be protracted.

Board Member Anthony shared on a positive note with regards to Red Hill. For the first time the U.S. Navy, BWS, DOH, and Sierra Club came together as part of the Council of Native Hawaiian Advancement (CNHA) which met in mid-July 2022. The CNHA Conference had over 1,000 people who registered and attended. He commented, that this is a step in the right direction to plan and engage with partners as we move forward.

Manager Lau expressed his appreciation to Board Member Anthony and his part in the CNHA Conference which allowed him to meet U.S. Navy Rear Admiral Stephen Barnett who took his position about a month ago and is in charge of Navy Region Hawaii. In the conversation between Manager Lau and U.S. Navy Rear Admiral Barnett, it was mentioned that a different U.S. Navy Officer would oversee the defueling of Red Hill. Manager Lau commented that it is important to keep an open line of communication with the U.S. Navy and that all information would be made public.

Board Member Ray Soon shared that he also attended the CHNA Conference and observed high-level conversations and commitments being made. He commented that meeting the U.S. Navy Rear Admiral Barnett at the beginning of his rotation is a good thing.

Manager Lau stated his first impression of the U.S. Navy Rear Admiral Barnett was positive. He is hopeful that the U.S. Navy Rear Admiral Barnett will continue to openly communicate with the BWS and seek the good for the community.

Vice Chair Kapua Sproat expressed her appreciation to Manager Lau and Board Member Anthony for the endless Red Hill outreach and education. The CNHA Conference allowed various groups to come together and build relationships.

Board Member Anthony shared that the CNHA Conference had all types of attendees from other states, other islands, and different walks of life who indicated by a show of hand that they were concerned about Oahu's drinking water. He added that during Manager Lau's closing statement, the audience showed their support and appreciation by clapping and a standing ovation.

Chair Andaya announced that public testimony will begin. Before the regular meeting, the BWS accepted testimonies via email and regular mail. Written testimonies have been distributed to all Board members and will be available to the public online at www.boardofwatersupply.com for viewing.

Chair Andaya thanked the public who submitted testimony. Before taking live testimony, Chair Andaya shared that the BWS received two written, one in-person, and two telephone testimonies.

ADVANCE WRITTEN TESTIMONY

Testimony Submitted	Submitter's Name	Format	Attached
July 24, 2022	Meredith Wilson	PDF via email	Yes
July 25, 2022	Colonel (Ret) Ann Wright	Online form (in 2 parts)	Yes

REQUEST TO TESTIFY BY PHONE OR IN PERSON

Request Received	Submitter's Name	Format	Confirmed
July 25, 2022	Colonel (Ret) Ann Wright	Call-in Testimony	Yes
July 25, 2022	Jamie Simic	Call-in Testimony	Yes
July 25, 2022	Susan Pcola-Davis	In-person	Yes

Chair Andaya confirmed that there were no remaining testifiers on the telephone or in person. He thanked everyone that wrote, called, and came in person to share their testimony with the Board.

Chair Andaya closed public testimony on the Update on the BWS's Response to the Potential Impacts of the Red Hill Fuel Contamination.

Board Member Jade Butay asked if the U.S. Navy Rear Admiral Barnett shared any updates on the remediation of Red Hill.

Manager Lau explained that there are different levels and hierarchies of leadership in the Navy Region of Hawaii. The U.S. Navy Rear Admiral Barnett is assigned to a specific duty at Pearl Harbor.

Board Member Butay stated that the Department of Transportation (DOT) has a process before being allowed to proceed with any work.

Board Member Sword commented that testifier Ms. Susan Pcola-Davis mentioned that the U.S. Navy drilled monitoring wells. He inquired if there is a way to expedite the drilling of the monitor wells that the Board authorized the BWS to drill.

Manager Lau explained that the U.S. Navy was able to drill monitoring wells immediately because they own the property. Whereas, the BWS is required to go through a process of permitting and landowner approvals. The BWS is awaiting final approvals from the landowners, then the BWS can begin the drilling at site H. The U.S. Navy is responsible to drill additional monitor wells, however, the BWS is also contributing to help in the recovery of Red Hill.

Board Member Sword asked what government agencies must the BWS comply with.

Manager Lau replied that the BWS must comply with the City, State, and Federal government agencies. The BWS has looked into all avenues to expedite the approval process but an emergency proclamation has not been issued by the Governor. Manager Lau explained that the regulatory authority is vested in the DOH and Environmental Protection Agency (EPA) who are responsible for moving forward in the investigation into the nature and extent of the Red Hill contamination.



BOARD PRESENTATION COMMUNICATIONS UPDATE

July 25, 2022

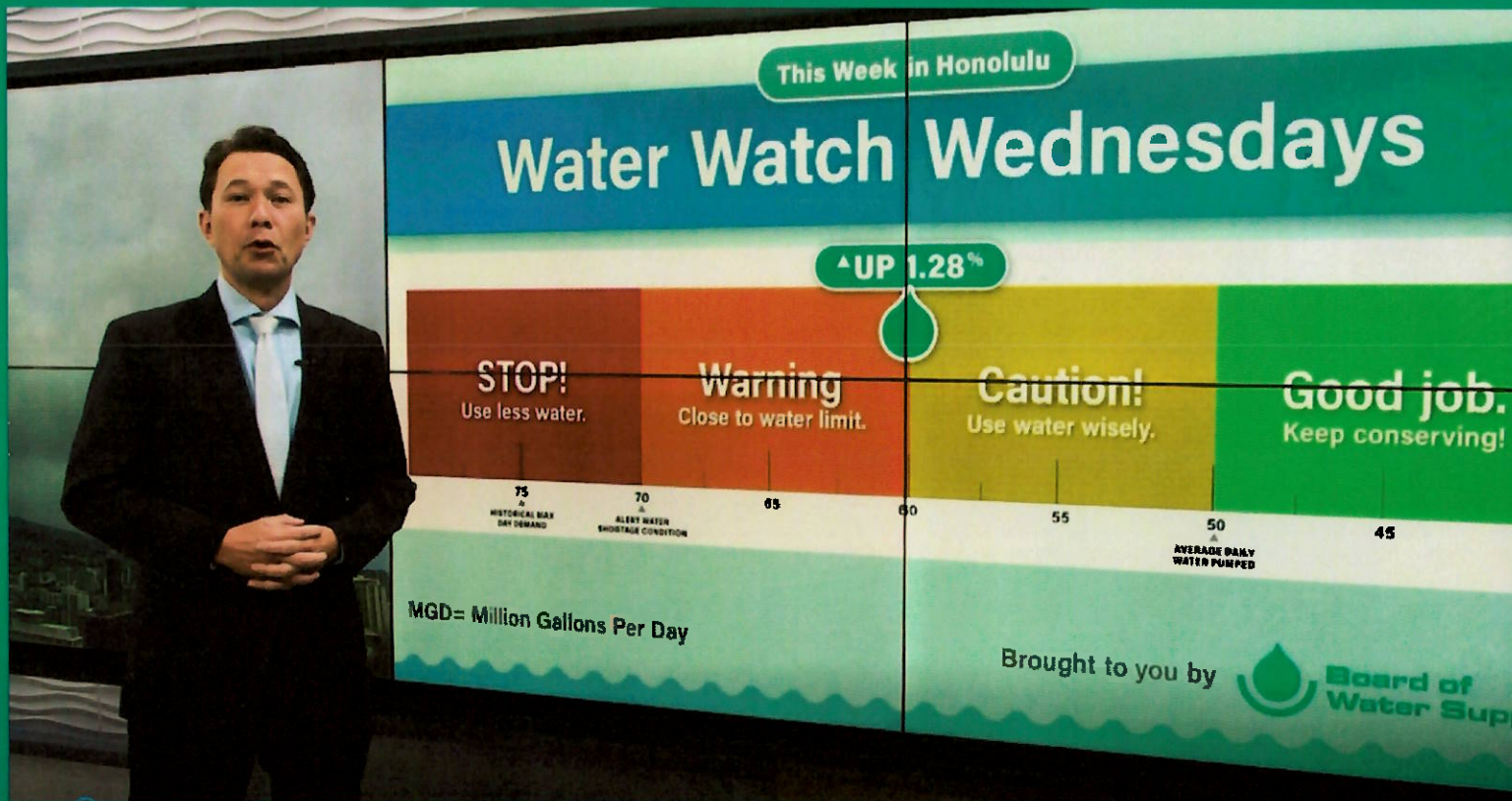
boardofwatersupply.com

CONSERVATION INITIATIVES

- Hawaii News Now Water Wisdom Wednesdays
 - Council Chair Tommy Waters
 - Council Member Andria Tupola
 - Steve Miller, GM, Outrigger Waikiki
- KHON Water Watch Wednesdays
- Hotel Partnership – Outrigger



KHON WATER WATCH WEDNESDAYS



CITY AND STATE PARTNERSHIPS

**North Shore
Emergency
Preparedness Event
and Craft Fair**


**Saturday, July 30, 2022
Preparedness Event
10AM to 2PM
Craft and Gift Fair
10AM to 3PM**

Join us for a day of disaster preparedness, food, fun and crafts on the North Shore!


- Meet the experts from county, state, Federal and non-Government response agencies!
- Visit Emergency Response Vehicles!
- Shop for some great local gifts and one food!
- Learn how to be prepared for any emergency!

This is a free community event! For more information, contact the Honolulu Department of Emergency Management at ejmanning@honolulu.gov or 808-723-8989.

Waiakaa Community Association Gym
66-434 Kamehameha Hwy
Haleiwa, HI 96712



https://bit.ly/3Pw2Dw_3erth_Prep

Sponsored By 

RAINWATER HARVESTING FOR FLOODING PREVENTION

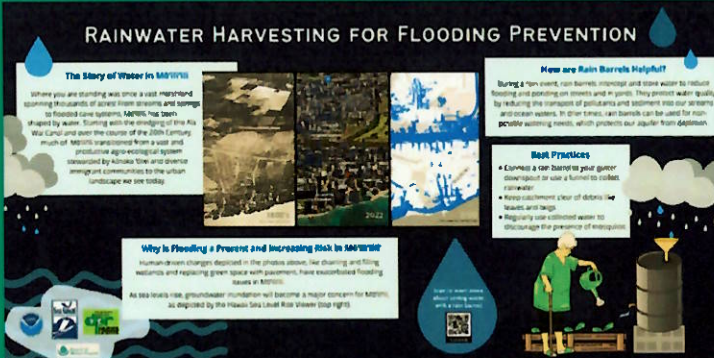
The Story of Water in MAUIVILLE
Where you are standing was once a vast marshland spanning Mauiville to Maui from streams and springs to flooded low valleys. MAUIVILLE has been shaped by water. Starting with the emigration of the Maui Rai Canoe line over the course of the 20th Century, much of MAUIVILLE transformed from a vast and productive agro-ecological system sustained by Maui Rai flow and diverted through communities to the urban landscape we see today.

How are Rain Barrels Helpful?
During a rain event, rain barrels intercept and store water to reduce flooding and pooling on streets and in yards. They protect water quality by reducing the transport of pollutants and sediment into our streams and oceans. In dry times, rain barrels can be used for non-potable watering needs, which protects our aquifer from depletion.

Best Practices

- Expose a car barrel to your gutter downspout to use a funnel to collect rainwater.
- Keep catchment clear of debris like leaves and twigs.
- Regularly use collected water to encourage the growth of vegetation.

Why is Flooding a Present and Increasing Risk in MAUIVILLE?
Sea-level rise, groundwater inundation, and increased flooding events in MAUIVILLE. As sea levels rise, groundwater inundation will become a major concern for MAUIVILLE as depicted by the Hawaii Sea Level Rise Viewer (top right).



BOATING WATER CONSERVATION TIPS

Put a nozzle on your hose for washdown


Use a bucket with a sponge to clean

Use only what you need

Wasted Water = Wasted \$\$\$



Board of Water Supply 


DEPARTMENT OF LAND AND NATURAL RESOURCES

DAVID Y. IGE
GOVERNOR

SUZANNE D. CASE
CHAIRPERSON

FOR IMMEDIATE RELEASE
July 7, 2022

**BOATERS ASKED TO JOIN STATEWIDE WATER CONSERVATION EFFORTS
10% Reduction in Water Use Sought at All DLNR Facilities and Properties**

(HONOLULU) - The DLNR Division of Boating and Ocean Recreation (DOBOR) is asking boaters to help conserve water at harbors around Hawaii.

Governor David Ige recently issued a request for all State agencies to reduce water usage as the year-to-date rainfall is well below normal in many places. In order to address this issue, DOBOR is limiting the number of accessible spigots at all small boat harbors.

"While I understand the challenges of reducing water consumption, the greatest reductions will come from curtailing irrigation and preventing waste of water," DLNR Chair Suzanne Case said.

The Honolulu Board of Water Supply (BWS) provided the following tips for boaters to take to conserve water:

- Put a nozzle on water spigots. Use a shutoff or pressure nozzle. Use what you need.
- Washing boats with a bucket and sponge instead of a hose saves water.
- Don't let the hose run freely. Use only the minimal amount of water needed.

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RESOURCES
(All images/video courtesy DLNR)

HD video - Maunaloa Bay Washdown Area (Sept. 2, 2019):
<https://www.youtube.com/watch?v=357281177>



HAWAII GREEN BUSINESS

Venues, Offices, Ten-Entry Level, Green Events

- Hawaii Convention Center
- Waialae Country Club
- Hawaii Pacific University, Aloha Tower Marketplace
- Honolulu Board of Water Supply
- Pier 9 by Sam Choy
- Blue Zones Project Worksite Well Being Conference
- Fall Tourism Update – Hilton Waikoloa Village
- Forest Bathing Hawaii
- Kauai Department of Water's 16th Annual "Make a Splash" Festival
- Sony Open

Hotels and Resorts

- Alohilani Resort Waikiki Beach
- The Cliffs at Princeville
- The Equus Hotel
- Hale Koa Hotel
- Hyatt Centric Waikiki Beach
- Hyatt Regency Maui Resort and Spa
- The Kahala Hotel and Resort
- Marriot Maui Ocean Club
- Outrigger Reef Waikiki Beach Resort
- The Ritz Carlton Kapalua



Commendation

In Recognition of

Honolulu Board of Water Supply

December 4, 2020

On behalf of the people of Hawai'i, aloha and congratulations to Honolulu Board of Water Supply on receiving the 2020 Hawai'i Green Business Program award.

The Hawai'i Green Business Program recognizes hotels, offices, and retail businesses that have gone above environmental compliance, taking significant steps to reduce, reuse, and recycle; conserve Hawai'i's natural resources; and educate employees and customers about the importance of "green" practices.

The environmental and conservation successes that Honolulu Board of Water Supply has realized demonstrate that enacting green practices are both the right and profitable things to do. You are an inspiration to other businesses across the state to increase their environmental efforts in order to save money and reduce their impact on Hawai'i's precious natural resources.

Mahalo for taking the initiative to employ responsible conservation measures and for contributing to a cleaner, better environment for Hawai'i residents and visitors to enjoy.

With warmest regards,


DAVID Y. IGE
Governor, State of Hawai'i

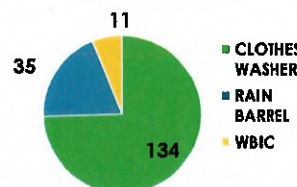


Water Sensible Monthly Dashboard: Residential Program June 2022

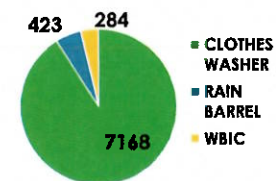
RESIDENTIAL AT-A-GLANCE OVERALL REBATES AND WATER SAVINGS

TOTAL	METRICS
\$571,970	(\$) REBATES PROVIDED
7,875	(QTY) REBATES PROVIDED
49,492,920	GALLONS SAVED PER YEAR
663,978,480	LIFETIME GALLONS SAVED

APPLICATIONS RECEIVED THIS MONTH*

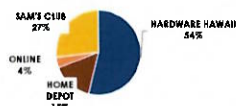


TOTAL REBATES PROVIDED



*APPLICATIONS RECEIVED INCLUDES MAIL-IN AND EMAILED APPLICATIONS.

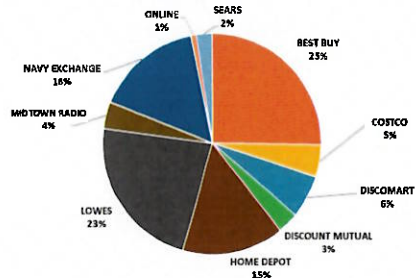
RAIN BARREL RETAILER BREAKDOWN



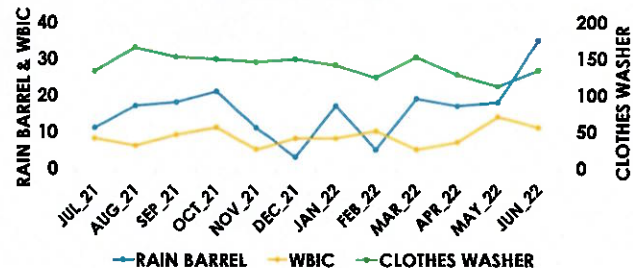
WBIC RETAILER BREAKDOWN



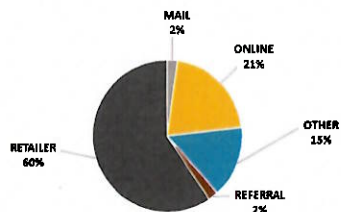
CLOTHES WASHER RETAILER BREAKDOWN (retailer breakdown by month)



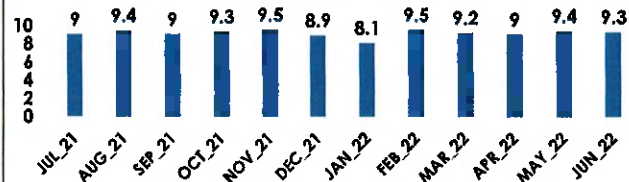
MONTHLY REBATE APPLICATIONS ROLLING 12 MONTHS



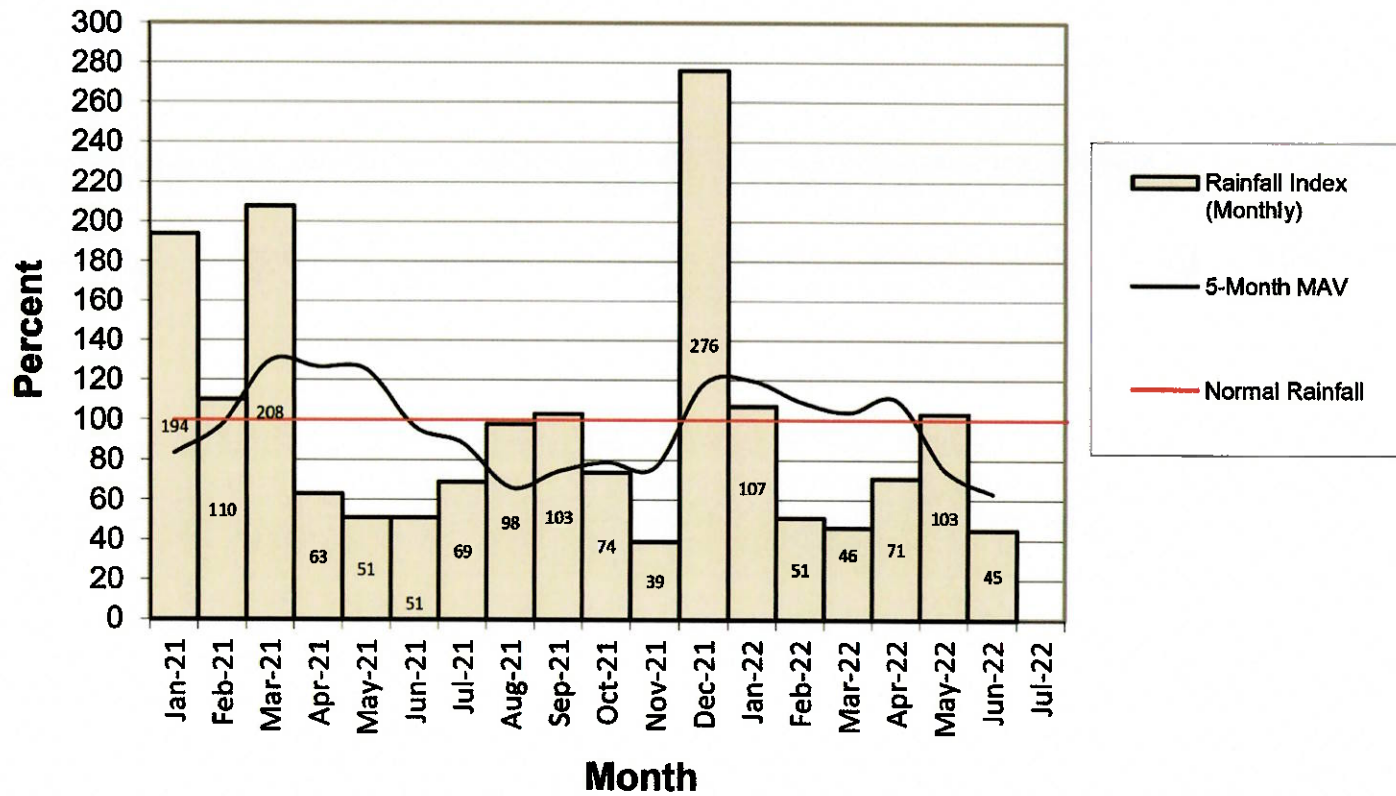
HOW DID YOU HEAR ABOUT THE PROGRAM?



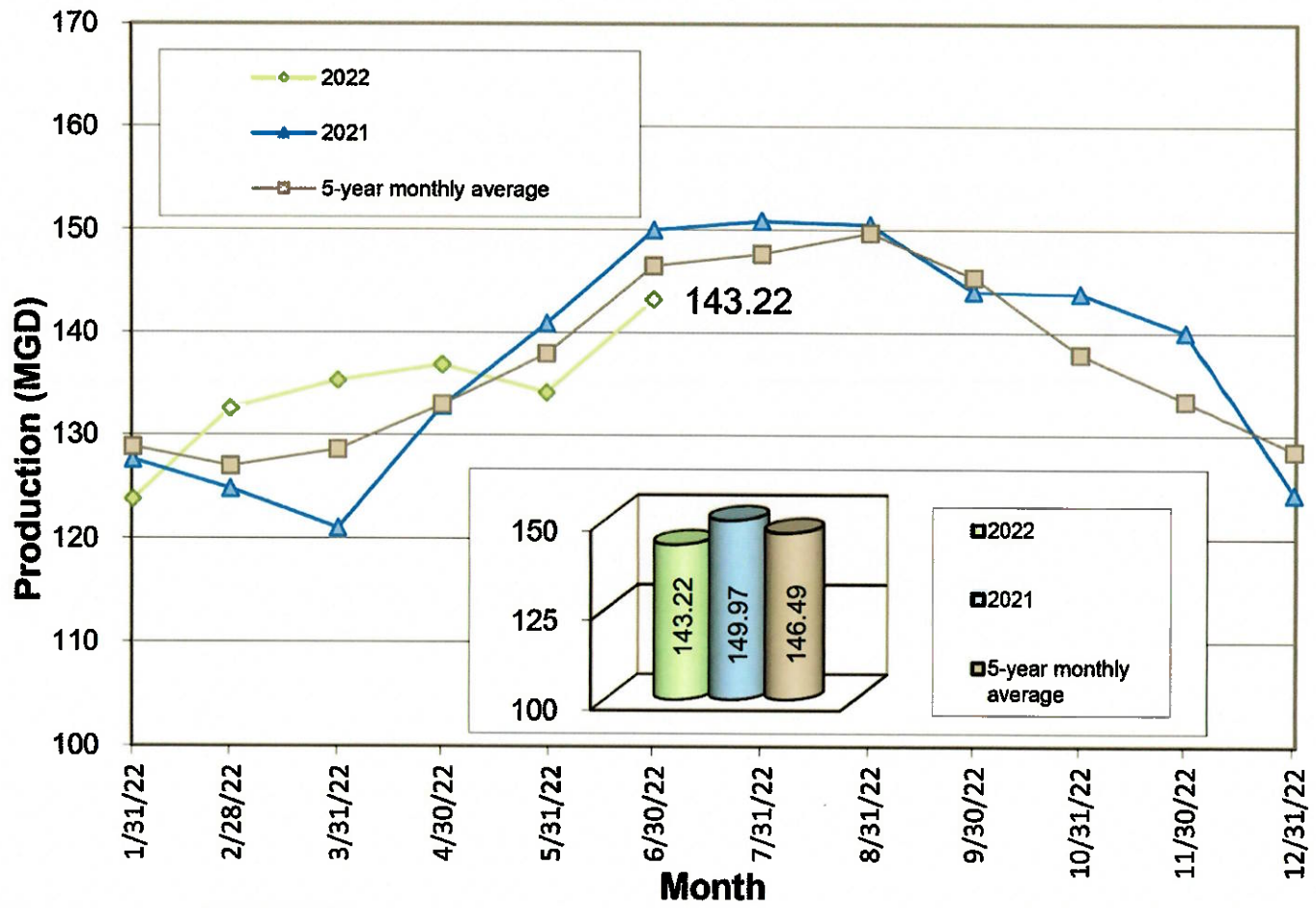
CUSTOMER SATISFACTION SURVEY REBATE SATISFACTION ROLLING 12 MONTHS



HONOLULU WATERSHED AREA Rainfall Intake



Monthly Production



APPROVAL OF MEETING

Approval of the Minutes of the Regular Meeting Held on June 27, 2022.

MOTION TO APPROVE

Ray Soon and Max Sword motioned and seconded, respectively, to approve the Minutes of the Regular Meeting on June 27, 2022.

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

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

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

THE MINUTES OF THE REGULAR MEETING HELD ON JUNE 27, 2022 WERE APPROVED AT THE JULY 25, 2022 BOARD MEETING			
	AYE	NO	COMMENT
BRYAN P. ANDAYA	X		
KAPUA SPROAT	X		
RAY C. SOON	X		
MAX J. SWORD	X		
NA'ALEHU ANTHONY	X		
JADE T. BUTAY	X		
DAWN B. SZEWCZYK	X		

“July 25, 2022

ADOPTION OF
RESOLUTION
NO. 944, 2022,
ACCEPTANCE OF
GIFT TO THE
BOARD OF WATER
SUPPLY FROM
HARDWARE
HAWAII

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

Chair and Members:

Subject: Adoption of Resolution No. 944, 2022, Acceptance of Gift
to the Board of Water Supply from Hardware Hawaii to
Support the Board of Water Supply’s Conservation Efforts

We recommend acceptance of the proposed gift to the Board of Water Supply (BWS), City and County of Honolulu, from Hardware Hawaii (HH HOLDINGS, INC.) of toilet flapper coupons valued at \$6,500.00 in support of the BWS’s conservation efforts.

Toilets account for the most significant number of indoor leaks. An undetected toilet leak could waste as much as five gallons of water per minute, costing customers hundreds of dollars a year. The culprit is usually a worn or deteriorated flush valve or flapper at the bottom of the toilet tank. This is why it’s essential to check the toilet flapper every year to make sure it’s fitted tightly over the flush tube. Replacing one can be quick, inexpensive, and easy to fix. While there’s no universal flapper, it is highly encouraged you bring the old flapper to the hardware store to make sure you buy a new one that fits your toilet model.

Hardware Hawaii toilet flapper coupons will be placed inside BWS Water Savings Kits, which includes water conservation material. These kits will be distributed during BWS events and available for pick up at the BWS’s Public Service Building at 630 South Beretania Street, Honolulu, Hawaii, 96843 during business hours.

We greatly appreciate the continued participation and commitment of our community partners as they embrace their role as responsible stewards of our precious water resources.

Respectfully Submitted,

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

Attachment”

DISCUSSION:

Kathleen Elliott-Pahinui, Information Officer, Communications Office, gave the report.

**MOTION
TO APPROVE**

Max Sword and Dawn Szewczyk motioned and seconded, respectively, approve the Approval of the Adoption of Resolution No. 944, 2022, Acceptance of Gift to the Board of Water Supply from Hardware Hawaii to Support the Board of Water Supply's Conservation Efforts.

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

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

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

APPROVAL OF THE ADOPTION OF RESOLUTION NO. 944, 2022, ACCEPTANCE OF GIFT TO THE BOARD OF WATER SUPPLY FROM HARDWARE HAWAII TO SUPPORT THE BOARD OF WATER SUPPLY'S WATER CONSERVATION EFFORTS WAS APPROVED ON JULY 25, 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		

BOARD OF WATER SUPPLY
CITY AND COUNTY OF HONOLULU

RESOLUTION NO. 944, 2022

ACCEPTANCE OF GIFT FROM HARDWARE HAWAII HOLDINGS, INC., IN SUPPORT
OF THE BOARD OF WATER SUPPLY'S CONSERVATION EFFORTS

WHEREAS, the single greatest water waster in the home is a leaking toilet.

Unpredictable, it can waste up to five gallons of water per minute nearly doubling the total monthly water usage by an entire household; and

WHEREAS, most toilet leaks are caused by a worn deteriorated flush valve or flapper at the bottom of the toilet tank; and

WHEREAS, replacing it can be quick, easy, and inexpensive, and since there's no universal flapper, people are encouraged to bring the defective one to the hardware store to ensure the replacement flapper valve fits the toilet model; and

WHEREAS, to help with this effort, the Board of Water Supply (BWS) has received a gift from Hardware Hawaii of toilet flapper coupons valued at \$6,500.00 to support the BWS's conservation efforts as an effective means to prevent unnecessary water loss; 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

WHEREAS, the gift of toilet flapper coupons is beneficial to help customers save money while encouraging regular leak detection and promoting the importance of becoming responsible stewards of Oahu's finite resources; now, therefore,

BE IT RESOLVED that the BWS hereby accept the gift valued at and directs the Manager and Chief Engineer, or his delegate, to accept and thank HH Holdings, Inc., (Hardware Hawaii) for this gift.

ADOPTED:

A handwritten signature in black ink, consisting of a long horizontal stroke followed by a smaller, more complex scribble.

BRYAN P. ANDAYA
Chair of the Board

Honolulu, Hawaii
July 25, 2022

"July 25, 2022

ELECTION OF
THE CHAIR AND
VICE CHAIR
OF THE BOARD
OF WATER
SUPPLY
BEGINNING
JULY 1, 2022

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

Chair and Members:

Subject: Election of the Chair and Vice Chair of the Board of Water
Supply Beginning July 1, 2022

The Bylaws of the Board of Water Supply provide that the Chair and Vice Chair of the Board shall be elected annually from among and by the appointed members of the Board.

Accordingly, the election of the Chair and Vice Chair of the Board for the ensuing year commencing July 1, 2022, is on the agenda for this July 25, 2022, regular meeting.

Respectfully Submitted,

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

DISCUSSION:

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

Manager Ernest Lau stated that each year there is an election of the Chair and Vice Chair of the Board of Water Supply (BWS) for the upcoming fiscal year. This term is for the Fiscal Year, July 1, 2022 – June 30, 2023. The Board requires the position of the Chair and Vice Chair to be filled to operate.

Chair Bryan Andaya asked the Board for nominations for the position of the Vice Chair.

Board Member Sword nominated Kapua Sproat to continue as Vice Chair.

Board Member Soon asked Vice Chair Sproat if she wanted to continue to serve as Vice Chair.

Vice Chair Sproat responded that it has been an honor to serve with Chair Andaya. She nominated Board Member Anthony because of the role he has taken in the Red Hill issue, an issue that is the greatest crisis that the BWS has had to face in history.

Board Member Anthony appreciated Vice Chair Sproat's nomination. He commented that the position of Vice Chair needs a voice now and into the future. The Vice Chair would need to engage with speakers and the public while meeting various charters. Board Member Anthony stated that he would be willing to assist in any way.

Board Member Soon stated that the Board has a large agenda at the BWS and Red Hill is one piece of the agenda. The Chair and Vice Chair position provides leadership for the Board and oversees all aspects. He commented that he would designate Board Member Anthony whose main focus would be on Red Hill.

Board Member Soon seconded the re-election of Vice Chair Sproat.

Vice Chair Sproat stated she would be happy to serve as Vice Chair. She pointed out that due to the importance of Red Hill, the appointed Vice Chair would have the ability to access and speak to authority as needed.

Board Member Anthony inquired if organizations are allowed to designate members to specific topics.

Chair Andaya replied that a permitted interaction group (PIG), could provide the ability for standing committees.

Board Member Sword asked Jessica Wong, City and County Corporation Counsel if there are any regulations against a permanent PIG.

Ms. Jessica Wong, City and County Deputy Corporation Counsel, responded that she did not believe permanent PIGs are permissible, but that a PIG is a temporary group formed to discuss specific issues and is not defined by the length of time in a committee. Ms. Wong stated that she would look further into the subject matter.

Vice Chair Sproat inquired if a specific Board Member can be appointed as the spokesperson.

Ms. Wong replied that the Sunshine Law only is concerned with how information is communicated among multiple board members. With respect to designating one board member to handle a specific topic, there should be no issue because they will not be speaking to other Board members but instead will gather information and then report it to the board at the monthly meetings.

**NOMINATION
AND MOTION**

Max Sword nominated the current Vice Chair Kapua Sproat, seconded by Ray Soon.

Chair Andaya requested Board Secretary, Ms. Joy Cruz-Achiu conduct the roll call vote for the nomination of Kapua Sproat to serve as Vice Chair.

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

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

Chair Andaya congratulated Vice Chair Sproat and expressed his appreciation for her expertise and service.

KAPUA SPROAT ELECTED AS VICE CHAIR OF THE BOARD OF WATER SUPPLY BEGINNING JULY 1, 2022 TO JUNE 30, 2023 WAS APPROVED ON JULY 25, 2022			
	AYE	NO	COMMENT
BRYAN P. ANDAYA	X		
KAPUA SPROAT			ABSTAIN
RAY C. SOON	X		
MAX J. SWORD	X		
NA'ALEHU ANTHONY	X		
JADE T. BUTAY	X		
DAWN B. SZEWCZYK	X		

Chair Bryan Andaya asked the Board for nominations for the position of Chair.

NOMINATION AND MOTION

Ray Soon nominated the current Chair, Bryan Andaya, seconded by Max Sword.

Chair Andaya accepted the nomination. He stated that it's an honor to serve and be a part of the Board. Chair Andaya shared that he is committed to keeping an open communication and being transparent as he serves on the Board. He expressed his gratitude for Manager Lau's support.

Chair Andaya requested Board Secretary, Ms. Joy Cruz-Achui conduct the roll call vote for the nomination of Bryan Andaya to serve as Chair.

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

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

BRYAN ANDAYA ELECTED AS CHAIR OF THE BOARD OF WATER SUPPLY BEGINNING JULY 1, 2022 TO JUNE 30, 2023 WAS APPROVED ON JULY 25, 2022

	AYE	NO	COMMENT
BRYAN P. ANDAYA			ABSTAIN
KAPUA SPROAT	X		
RAY C. SOON	X		
MAX J. SWORD	X		
NA'ALEHU ANTHONY	X		
JADE T. BUTAY	X		
DAWN B. SZEWCZYK	X		

ITEM FOR INFORMATION NO. 2

"July 25, 2022

DRAFT BOARD
OF WATER
SUPPLY
STRATEGIC
PLAN REPORT
AND
PRESENTATION
OF REPORT
AND RECOM-
MENDATIONS
TO THE BOARD
BY THE
HRS §92.2.5
PERMITTED
INTERACTION
GROUP

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

Chair and Members:

Subject: Draft Board of Water Supply Strategic Plan Report and
Presentation of Report and Recommendations to the Board
by the HRS §92-2.5 Permitted Interaction Group

On March 1, 2022, March 24, 2022, April 18, 2022, and May 26, 2022, the Permitted Interaction Group met with the Board of Water Supply (BWS) senior management team to develop the attached draft BWS Strategic Plan. Also attached is the Permitted Interaction Group report describing the activities, findings and recommendations of these four workshops.

Respectfully Submitted,

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

Attachment"

The foregoing was for information only.

DISCUSSION:

Ellen Kitamura, Deputy Manager, gave the report.

Chair Andaya asked Board Secretary Ms. Cruz-Achui, were there any public testimony. Ms. Cruz-Achui responded there was no public testimony.

Board Member Sword asked what is the BWS's water usage noted in the BWS Strategic Plan Report.

Deputy Manager Ellen Kitamura replied 145 million gallons per day (mgd).

Board Member Sword inquired if the Kalaeloa Desalination Plant would produce 1.7 mgd, will it make up for the loss of Red Hill.

Manager Lau stated that the Kalaeloa Desalination Plant would have the capability to expand to 5 mgd.

Manager Lau acknowledged Deputy Manager Kitamura for her leadership and guidance in the BWS Strategic Plan.

Deputy Manager Kitamura appreciated the acknowledgment. She stated that she enjoyed the interaction and teamwork it took to produce the strategic plan.



BWS DRAFT STRATEGIC PLAN FY 2023 – 2027

Ellen E. Kitamura

July 25, 2022

boardofwatersupply.com

AGENDA

- STRATEGIC PLAN WORKSHOPS AND MEETINGS SCHEDULE
- DRAFT PLAN – TABLE OF CONTENTS
- BWS SHARED VALUES STATEMENT
- BWS SUSTAINABILITY GOALS
- BWS STRATEGIC OBJECTIVES
- BWS KEY ACTION PLANS, PERFORMANCE METRICS AND MILESTONES
- PERMITTED INTERACTION GROUP REPORT AND DRAFT STRATEGIC PLAN



STRATEGIC PLAN SCHEDULE

Date	Description
January 24, 2022 – Board Meeting	<ul style="list-style-type: none"> • Board approval to update current BWS Strategic Plan • PIG created
March 1, 2022 – Workshop #1	<ul style="list-style-type: none"> • BWS Vision, Mission, Shared Values Statements Review/Discussions • Effective Utility Management (EUM) Discussion • Update on Red Hill Water Contamination Issue • Break-out Groups and Large Group Discussions on BWS Sustainability Goals and Strategic Objectives
March 24, 2022 – Workshop #2	<ul style="list-style-type: none"> • Break-out Groups and Large Group Discussions on BWS Sustainability Goals and Strategic Objectives • Action Plans Discussion to Support Strategic Objectives
April 18, 2022 – Workshop #3	<ul style="list-style-type: none"> • Confirm BWS Sustainability Goals and Strategic Objectives • BWS Shared Values Discussion • Action Plans Discussions to Support Strategic Objectives • Performance Metrics and Milestones to Measure Success for Action Plans
April 21, 2022 – Stakeholder Advisory Group Meeting	<ul style="list-style-type: none"> • BWS Sustainability Goals and Strategic Objectives Presentation and Feedback
May 26, 2022 – Workshop #4	<ul style="list-style-type: none"> • Confirm BWS Shared Values • Confirm Key Action Plans, Performance Metrics and Milestones
July 25, 2022 – Board Meeting	<ul style="list-style-type: none"> • Permitted Interaction Group Report • Draft 2023 – 2027 Strategic Plan
August 22, 2022 – Board Meeting	<ul style="list-style-type: none"> • Adopt 2023 – 2027 Strategic Plan
September 1, 2022	<ul style="list-style-type: none"> • Implementation of 2023 – 2027 Strategic Plan

DRAFT STRATEGIC PLAN – TABLE OF CONTENTS

- Introduction
- Letter from the Chair of the Board and the Manager and Chief Engineer
- History of the Board of Water Supply
- BWS Vision
- BWS Mission
- **BWS Shared Values**
- BWS Water System
- **BWS Sustainability Goals**
- **BWS Strategic Objectives**
- **BWS Key Action Plans, Performance Metrics and Milestones**



BWS SHARED VALUES



Catch Phrase – “We...”	Description
...respect and support each other.	We depend upon and support each other and treat each other with dignity and respect.
...strive to uphold our commitments.	We honor our commitments and communicate effectively with colleagues, partners, and stakeholders, to bridge differences and accomplish our collective goals.
...maintain trust through our relationships.	We uphold the Public Trust* by participating in community partnerships, collaborating with community leaders and other public agencies, and being advocates of Oahu's water resources. *Principle embedded in Hawaii Law that recognizes that water is held in trust by the State of Hawaii for present and future generations.
...invest in our staff.	We provide the necessary work environment, training, and tools for our staff to grow in the water utility business; and to complete their jobs safely, effectively and in support of our mission to provide safe, clean, affordable water.
...embrace opportunities for innovation.	We promote strategic innovation and new ideas in improving and maintaining our infrastructure to deliver water safely, reliably, and affordably to our customers.



BWS SUSTAINABILITY GOALS

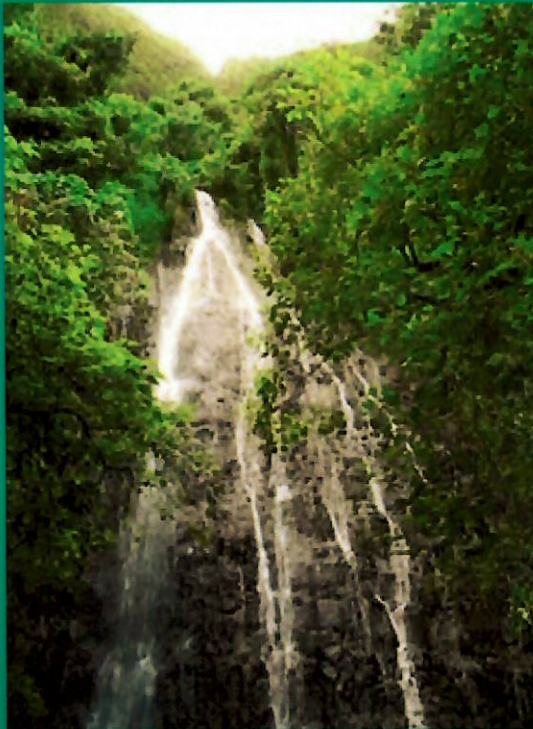


Goal	Description
Resource	Protect and manage Oahu's water resources and watersheds now and into the future through adaptive and integrated strategies.
Operational	Manage and continuously refine an effective organization that can evolve and adapt to its human and physical resources to provide dependable service.
Financial	Implement sound fiscal strategies to support our mission.



BWS STRATEGIC OBJECTIVES

RESOURCE SUSTAINABILITY



Resource	Category	Description
Protect, conserve, and manage Oahu's water supplies and watersheds now and into the future through adaptive and integrated strategies.	Resource Sustainability	We will continuously adapt and implement resilient and sustainable solutions to mitigate climate and environmental changes to protect and manage Oahu's water resources and watersheds.
	Water Quality	We will protect, preserve, and ensure the safety and quality of Oahu's water resources extending for at least seven generations.
	Water Conservation	We will conserve Oahu's water resources, supply, and system capacity by reducing per capita demand and increasing water use efficiency.
	Resource Advocacy	Lead, promote, and sustain partnerships with stakeholders to advocate and support community-driven initiatives to protect Oahu's water resources and watersheds.



BWS STRATEGIC OBJECTIVES

OPERATIONAL SUSTAINABILITY



Operational	Category	Description
<p>Manage and continuously refine an effective organization that can evolve and adapt to its human and physical resources to provide dependable service.</p>	Organizational Resiliency	We will ensure the necessary workforce, competencies, tools, and resources to support current and future needs.
	Infrastructure	We will proactively assess and address water system risks and vulnerabilities to ensure water system adequacy, dependable service, and operational efficiency.
	Customer Service	We will consistently provide dependable service and a quality experience in every customer interaction.
	Technology	We will ensure that our technology is current, secure, and leveraged to effectively support current and future BWS needs.
	Strengthen Operational Partnerships	We will proactively collaborate with external government and community decision-makers and stakeholders to ensure that there is a holistic approach to critical environmental and social issues; and in so doing, reinforce the utility as a valued and trustworthy partner.



BWS STRATEGIC OBJECTIVES

FINANCIAL SUSTAINABILITY

Financial	Category	Description
Implement sound fiscal strategies to support our mission.	Financial Opportunities	We will strategically pursue and leverage financial opportunities.
	Financial Planning	We will develop and implement short-, mid-, and long-term financial policies and plans.
	Financial Accountability	We will be accountable and transparent to our stakeholders through responsible and effective financial management.

	FINAL
Long Range Financial Plan Update 2021	



Board of Water Supply
News Release

Board of Water

Contact: Kathleen Elliott-Pahinui
Telephone: (808) 748-5319

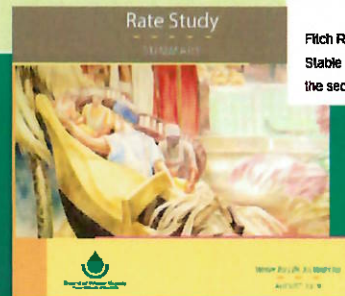
March 14, 2022

Honolulu Board of Water Supply Has Successful Sale of Bonds

HONOLULU – On Tuesday, March 8, the Board of Water Supply (BWS) successfully sold \$135,260,000 of Water System Revenue Bonds. Proceeds from the bonds will be used to finance new projects, conduct repair and maintenance of the water system, and to refinance outstanding debt.

Despite a volatile market, BWS was able to lock-in an all-in true interest cost of only 3.03% for 30-year tax-exempt debt. In addition, BWS will realize \$2.7 million of present value savings through a taxable refunding. The overall transaction received more than \$224 million of total orders from a combination of individual retail investors and 27 different institutional accounts.

Fitch Ratings and S&P respectively assigned ratings of "AA+", Positive outlook and "AAA", Stable outlook. This is the third year BWS has received the AAA rating from S&P. This is the second year the BWS has received an AA+, positive outlook from Fitch.



Draft Strategic Plan



BWS KEY ACTION PLANS, PERFORMANCE METRICS/MILESTONES

RESOURCE SUSTAINABILITY

Protect and manage Oahu's water resources and watersheds now and into the future through adaptive and integrated strategies.

	Key Action Plans	Performance Metrics and Milestones
<p>Resource Sustainability</p> <p>We will continuously adapt and implement resilient and sustainable solutions to mitigate climate and environmental changes to protect and manage Oahu's water resources and watersheds.</p>	<p>Complete the Kalaeloa seawater desalination plant – 1.7 MGD.</p>	<ul style="list-style-type: none"> • Complete procurement by 2023. • Annual Board report on % project completion. • Estimated project completion by 2025.
	<p>Appropriate up to 4% of annual Capital Improvement Program funding for watershed management and invasive species control.</p>	<ul style="list-style-type: none"> • Annual Board report on actual removal of invasive plant species and protection measures for BWS priority watersheds. • Develop strategies by January 2023 to increase funding expenditures for watershed management.
	<p>Diversify alternative water supplies to reduce impacts on natural water resources.</p>	<ul style="list-style-type: none"> • Complete the Kalaeloa Seawater Desalination Plant (1.7 mgd) by 2025. • Budget for construction East Kapolei 215 3.0 MG reservoir and connecting pipelines in FY 2024. • Initiate design of project for Kapolei Parkway 24" transmission main to Kapolei Business Park by FY 2024. • Support gray/on-site water reuse initiatives and assist ENV on expanding R-1 reuse at WWTPs.
<p>Evaluate existing pumping operations to determine impacts to the aquifer and develop operational strategies and/or new sources to distribute source pumping.</p>	<ul style="list-style-type: none"> • Annual Board report on impact of existing pumping on aquifers. (Energy costs for pumping, chloride/head levels, ability to fill reservoirs, operation within permitted use). 	



BWS KEY ACTION PLANS, PERFORMANCE METRICS/MILESTONES

RESOURCE SUSTAINABILITY

Protect and manage Oahu's water resources and watersheds now and into the future through adaptive and integrated strategies.

Water Quality	Key Action Plans	Performance Metrics and Milestones
<p>We will protect, preserve, and ensure the safety and quality of Oahu's water resources extending for at least seven generations.</p>	<p>Monitor the Red Hill groundwater contamination situation and take action to protect and preserve BWS wells near Red Hill fuel facility.</p>	<ul style="list-style-type: none"> • Participate in DOH/EPA working group. • Install 4 or more sentinel/monitor wells in Halawa/Moanalua/Aiea by December 2026.
<p><u>Water Conservation</u></p> <p>We will conserve Oahu's water resources, supply and system capacity by reducing per capita demand and increasing water use efficiency.</p>	<p>Reduce water loss by 2% in BWS water system.</p>	<ul style="list-style-type: none"> • Calibrate largest source meters by 2027. • Continue leak detection and meter change out program (one cycle a year). • Complete AMR MXU change out program. • Continue replacement of priority pipelines to reduce main breaks and water loss. • Annual Board report on % non-revenue water loss.
<p><u>Resource Advocacy</u></p> <p>Lead, promote and sustain partnerships with stakeholders to advocate and support community-driven initiatives to protect Oahu's water resources and watersheds.</p>	<p>Lead and engage with stakeholders and community on resource protection initiatives.</p>	<ul style="list-style-type: none"> • Development of initiatives (SWAP-Source Water Assessment Program/SWPP-Source Water Protection Program) including stakeholder outreach and develop SWPP plan by 2024.



BWS KEY ACTION PLANS, PERFORMANCE METRICS/MILESTONES

OPERATIONAL SUSTAINABILITY

Manage and continuously refine an effective organization that can evolve and adapt its human and physical resources to provide dependable service.

	Key Action Plans	Performance Metrics and Milestones
<p>Organizational Resiliency</p> <p>We will ensure the necessary workforce, competencies, tools and resources to support current and future needs.</p>	<p>Develop recruitment plan with metrics and implementation plan for Department by end of FY 2023.</p> <p>Create a Facility Maintenance Division (FMD)</p>	<ul style="list-style-type: none"> • Determine priority fill list for FY 2023. • Recommend to the Board an acceptable vacancy rate based on historical data for approval by 2024. • Annual Board report on vacancy rate. • Obtain approval from Manager to begin reorganization to create FMD by December 2022. • Gather data, complete analysis, and submit justification memo to DHR by December 2023. • Create new FMD by 2027.
<p>Infrastructure</p> <p>We will proactively assess and address water system risks and vulnerabilities to ensure water system adequacy, dependable service, and operational efficiency.</p>	<p>Improve and maintain water infrastructure to ensure dependable service to our customers.</p>	<ul style="list-style-type: none"> • Annual Board report on number of main breaks per 100 miles of pipe with target of 15 or less. • Annual Board report on number of leaks located and repaired per 100 miles with target of 30 or more. • Annual Board report on number of switchgears maintained at pump stations with target of 15 facilities or more.



BWS KEY ACTION PLANS, PERFORMANCE METRICS/MILESTONES

OPERATIONAL SUSTAINABILITY

Manage and continuously refine an effective organization that can evolve and adapt its human and physical resources to provide dependable service.

Customer Service	Key Action Plans	Performance Metrics and Milestones
<p>We will consistently provide dependable service and a quality experience in every customer interaction.</p>	<p>Continue to improve work processes, efficiencies and quality assurance program.</p>	<ul style="list-style-type: none"> • All divisions to submit a work process improvement plan with metrics to measure success by December 2022. • Annual Board report on Resident Overall Satisfaction with BWS (%); survey taken every two years with target of 70% or more.
<p><u>Technology</u></p> <p>We will ensure that our technology is current, secure, and leveraged to effectively support current and future BWS needs.</p>	<p>Update IT Strategic Plan.</p>	<ul style="list-style-type: none"> • Update plan by end of FY 2023. • Develop milestones for FY 2024-2026 based on plan.
<p><u>Strengthen Operational Partnerships</u></p> <p>We will proactively collaborate with external government and community decision-makers and stakeholders to ensure that there is a holistic approach to critical environmental and social issues; and in so doing, reinforce the utility as a valued and trustworthy partner.</p>	<p>Develop and adopt a plan to identify external public and private agencies with whom BWS should meet on an on-going basis (no less than annually) and assign a BWS division or office to nurture each relationship by FY2025.</p>	<ul style="list-style-type: none"> • Develop plan with Divisions/Staff Offices to determine public/private stakeholders by 12/31/2022. • Manager to assign Divisions/Staff Offices to begin outreach with stakeholders in 2023.



BWS KEY ACTION PLANS, PERFORMANCE METRICS/MILESTONES

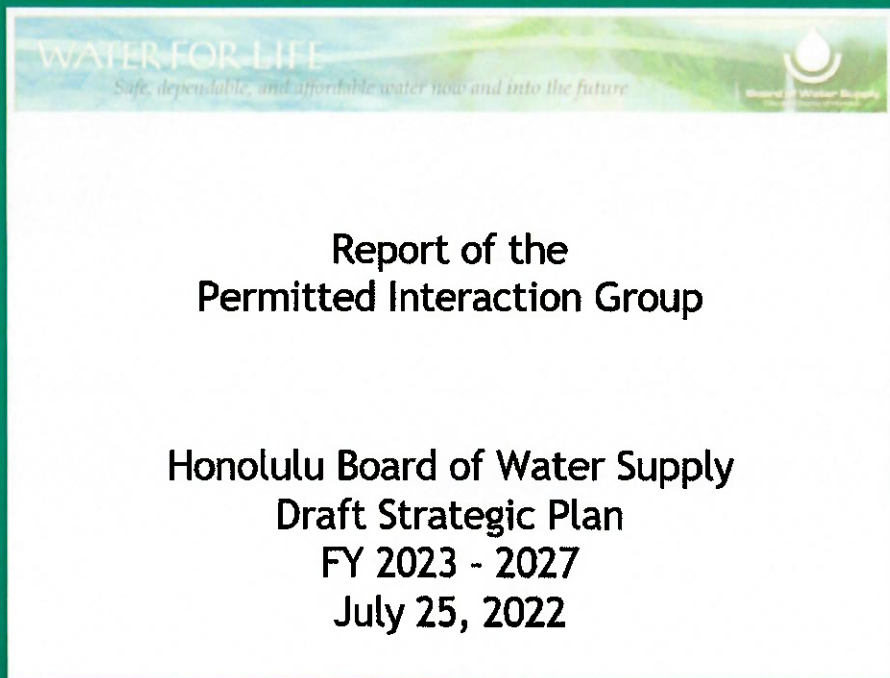
FINANCIAL SUSTAINABILITY

Implement sound financial strategies to support our mission.

	Key Action Plans	Performance Metrics and Milestones
<p>Financial Opportunities</p> <p>We will strategically pursue and leverage financial opportunities.</p>	<p>Effectively and strategically leverage debt and governmental funding for infrastructure investments.</p>	<ul style="list-style-type: none"> • Sept 2022 – submit WIFIA Letter of Interest. • Jan 2024 – submit WIFIA application (if 2022 LOI is selected). • Submission of grant and funding applications as they become available, e.g., USBR grant, American Rescue Plan Act projects. • May annually – submit projects eligible for SRF Intended Use Plan. • Annual Board report on outstanding debt.
<p>Financial Planning</p> <p>We will develop and implement short-, mid-, and long-term financial policies and plans.</p>	<p>Complete the cost-of-service study and water rate plan and update the financial model.</p>	<ul style="list-style-type: none"> • Sept 2022 – complete the financial model tool. • Oct 2022 – begin community and government outreach. • Dec 2022 – complete revised water rates. • Oct 2023 – issue final report. • Jan 2024 – new water rates become effective.
<p>Financial Accountability</p> <p>We will be accountable and transparent to our stakeholders through responsible and effective financial management.</p>	<p>Maintain and/or exceed current bond rating.</p>	<p>Annual Board report on bond rating:</p> <p>AA+ - Fitch Aa2 – Moody’s AAA – S & P</p>



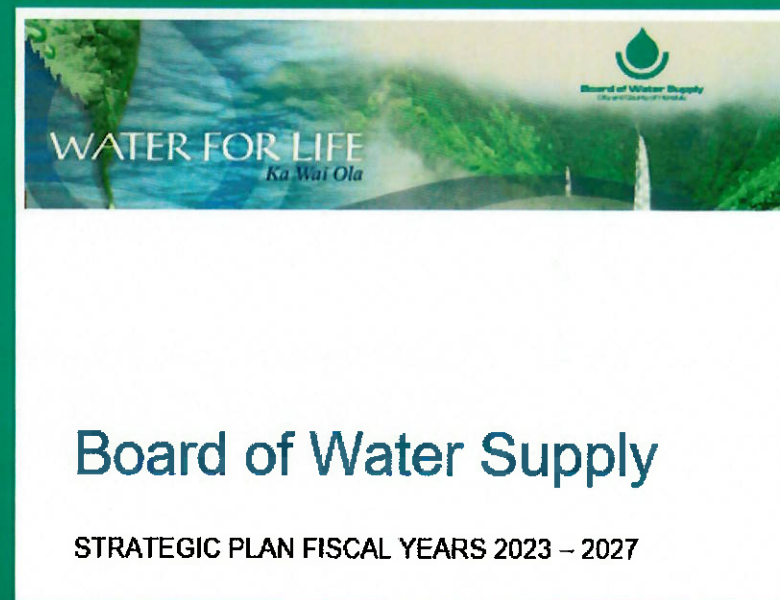
PERMITTED INTERACTION GROUP REPORT AND DRAFT STRATEGIC PLAN



The cover features a banner at the top with the text "WATER FOR LIFE" and the tagline "Safe, dependable, and affordable water now and into the future". To the right of the banner is the Board of Water Supply logo. The main text is centered on a white background.

**Report of the
Permitted Interaction Group**

**Honolulu Board of Water Supply
Draft Strategic Plan
FY 2023 - 2027
July 25, 2022**



The cover features a banner at the top with the text "WATER FOR LIFE" and the Hawaiian phrase "Ka Wai Ola". To the right of the banner is the Board of Water Supply logo. The main text is centered on a white background.

Board of Water Supply

STRATEGIC PLAN FISCAL YEARS 2023 – 2027



ACKNOWLEDGEMENTS

- Board Members – Chair Andaya, Board Members Soon and Anthony
- BWS Senior Management Team
- Ann Hajnosz & Stacy Gorajewski – Harris & Associates
- Break-Out Groups Facilitators:
 - Kevin Ihu, Jason Takaki, Jason Nikaido, Barry Usagawa, Rae Nakabayashi, Joe Cooper, Henderson Nuuhiwa, Mike Matsuo, Marc Chun
- Scribes: Dominic Dias, Oliver Julian, June Yip





Mahalo!

BOARD OF WATER SUPPLY

BWS Draft Strategic Plan FY 2023 – 2027

Ellen E. Kitamura

(808) 748-5066, ekitamura@hbws.org

boardofwatersupply.com for more information

July 25, 2022

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

BWS VALUES

Environmental

We uphold the Public Trust as thoughtful stewards of Oahu's water resources and the environment.*

Societal

We provide quality service to our customers with the highest level of courtesy and efficiency.

Organizational

We provide a healthy and safe work environment through cooperation, participation and shared decision-making.

Team

We depend upon and support each other and treat each other with dignity and respect.

Personal

We are water professionals who earn and uphold the community's trust everyday through our actions and in doing our jobs right.





Report of the Permitted Interaction Group

Honolulu Board of Water Supply Draft Strategic Plan Fiscal Years 2023 - 2027 July 25, 2022

Members:

Bryan P. Andaya, Chair

Ray C. Soon

Na'alehu Anthony



Background

On January 24, 2022, a Permitted Interaction Group (PIG) comprised of three Board members (Bryan P. Andaya - Chair, Ray C. Soon - Member, and Na'alehu Anthony - Member) was approved by the Board. The PIG collaborated with the BWS senior management team to prepare the new FY 2023 - 2027 Strategic Plan. Four (4) workshops were held to prepare the draft Strategic Plan for submission to the Board at the July 25, 2022 Board meeting and possible adoption of the strategic plan at the August 22, 2022 Board meeting.

The following is a report of the topics and issues discussed in the workshops and the recommendations by the PIG for the updated 5-Year BWS Strategic Plan for fiscal years 2023 to 2027.

Workshop Schedule and Activities

From March to May 2022, four virtual workshops were conducted to update the strategic plan. The workshop participants included the PIG, the Manager and Deputy Manager, BWS Program Administrators, Staff Officers and their assistants (collectively, the BWS senior management team). The workshops were facilitated by Ann Hajnosz of Harris & Associates. Below is the workshop schedule and brief description of the activities conducted during each workshop.

Workshop 1 - March 1, 2022

Activity 1: Vision/Mission/Shared Values Statements Review

The purpose of this activity was to review and validate the current BWS Vision, Mission and Shared Values Statement. Virtual polls were utilized to obtain feedback from the workshop participants. The results were as follows:

BWS Vision: Ka Wai Ola - Water for Life	
What do you think of the current Vision?	
Strongly Agree with it	87%
Agree with it	12%
Disagree with it	0%
Strongly Disagree with it	0%



BWS Mission: The Board of Water Supply provides safe, dependable, and affordable water now and into the future.

What do you think of the current Mission?

Strongly Agree with it	78%
Agree with it	21%
Disagree with it	0%
Strongly Disagree with it	0%

BWS Values:

- **Personal Responsibility: We are water professionals who earn and uphold the community’s trust everyday through our actions and in doing our jobs right.**
- **Team Responsibility: We depend upon and support each other and treat each other with dignity and respect.**
- **Organizational Responsibility: We provide a healthy and safe work environment through cooperation, participation, and shared decision-making.**
- **Societal Responsibility: We provide quality service to our customers with the highest level of courtesy and efficiency.**
- **Environmental Responsibility: We uphold the Public Trust as thoughtful stewards of Oahu’s water resources and the environment**

What do you think of the current BWS Values?

Strongly Agree with it	39%
Agree with it	60%
Disagree with it	0%
Strongly Disagree with it	0%

The poll results showed strong agreement with the current BWS Vision and Mission, but not with the current Shared Values Statement. A future workshop was used to hold more in-depth discussions on revisions to the Shared Values Statement.



Activity 2: Effective Utility Management (EUM) Discussion

The purpose of this activity was to review and discuss the results of the EUM survey tool.

The EUM survey tool is a self-assessment survey tool that was used by the BWS Board and BWS senior management team to evaluate BWS operations and identify priority areas for improvement. This survey tool was developed in 2008 and updated in 2017 by a national coalition of water and wastewater organization, including the American Water Works Association (AWWA), Water Research Foundation (WRF) and the Environmental Protection Agency (EPA). The survey tool was used to evaluate the 10 attributes of an effectively managed utility and prioritize improvement areas.

The results of the survey indicated that in general, the BWS has workable systems in place and achieves its management, operational and financial goals. However, both the BWS Board and the BWS senior management team identified “Employee and Leadership Development” as a priority area for improvement.

Activity 3 Review Goals and Objectives for the Strategic Plan Workshops

The purpose of this activity was to review with the workshop participants the tasks and deliverables for each of the strategic plan workshops.

- The assumption is that this is an update to the 2018 - 2022 strategic plan. The expectation is that the framework will generally stay the same.
- **Definitions:**
 - **Sustainability Goals** - 3 foundational building blocks in achieving BWS Strategic Plan
 - **Categories** - Sub goals that focus on specific areas within a Sustainability Goal
 - **Strategic Objectives** - Measurable activities that will achieve Sustainability Goals
 - **Action Plans** - Tactics to achieve Strategic Objectives
 - **Performance Metrics** - Measurable milestones and deliverables to measure success achieving the Action Plans
- **Workshop #1**
 - Revisit Sustainability Goals language
 - Revisit Strategic Objectives and associated language



- Workshop #2
 - Review Action Plans for Strategic Objectives and make adjustments
- Workshop #3
 - Review Performance Metrics for Action Plans and make adjustments
- Workshop #4 - Wrap up

Activity 4: Red Hill Bulk Fuel Storage Facility (Red Hill) Water Contamination

The purpose of this activity was to provide the PIG and the BWS senior management team an overview of the Red Hill contamination issue and its implications on the BWS operations, water resources and the community at large. The Red Hill water contamination issue is an important consideration in the update of the next 5-Year Strategic Plan. The Manager presented the update and ended with the following summary:

- BWS’s Halawa Shaft, Aiea Wells, and Halawa Wells are shut down in response to Navy announcement of petroleum contamination at Navy Red Hill Shaft.
- Continued storage of Red Hill fuel above the aquifer endangers the resource to further contamination.
- Navy should immediately relocate the fuel away from over the aquifer and decommission the Red Hill fuel facility.
- Water conservation is critically important for these water systems areas: Metro Honolulu (Halawa to Hawaii Kai), Aiea-Halawa (Hekaha St. to Iwaena St.)
- Water demand can’t exceed the supply from remaining BWS wells, or there will be water service disruption.

Activity 5: Sustainability Goals and Strategic Objectives

The purpose of this activity was to review and update, if necessary, the current BWS Sustainability Goals and Strategic Objectives.

The current strategic plan has 3 Sustainability Goals: Resource, Operational and Financial. The workshop participants were divided into 3 break-out groups to review and discuss the current goals and offer revisions which were presented to the entire group for further discussion. As part of the discussion, the workshop participants were asked to consider the Red Hill water contamination impacts to their operations and its impacts on the current Sustainability Goals and Strategic Objectives.



At the conclusion of Workshop #1, general consensus was reached by the workshop participants on the revisions to the three Sustainability Goals, however more discussion was needed for the Strategic Objectives to support the three Sustainability Goals.

Workshop 2: March 24, 2022

Activity 1: Continuation - Sustainability Goals, Strategic Objectives and Key Action Plans

The purpose of this activity was to review the revisions from Workshop #1 to the Sustainability Goals, then continue discussions on the Strategic Objectives to support the three overarching Sustainability Goals.

The workshop participants were also tasked to begin identifying Action Plans to ensure that the goals and objectives set in the 5-Year Plan would be accomplished.

At the conclusion of Workshop #2, general consensus was that the Sustainability Goals and Strategic Objectives were very close to being finalized. The Action Plans for each of the Strategic Objectives were still in draft form and would be a major part of the discussion in Workshop #3.

Workshop 3: April 18, 2022

Activity 1: Confirm Updated Sustainability Goals and Strategic Objectives

The purpose of this activity was to finalize the revised Sustainability Goals and Strategic Objectives.

Activity 2: BWS Shared Values

The purpose of this activity was to discuss revisions to the BWS Shared Values Statement. Feedback from Workshop #1 indicated that there was not strong agreement with the current Shared Values Statement.

The workshop facilitator, Ann Hajnosz, did a brief presentation on elements generally contained in value statements and offered samples from other agencies for the workshop participants to consider as they discussed revisions to the Shared Values Statement. After much discussion by the workshop participants, there was no consensus on revisions to the Shared Values Statement, except that the participants were in agreement that simplified Shared Values language would make it easier for managers to communicate the Shared Values to staff and embed the values into everyday operations. Using feedback from the group discussion, Ms. Hajnosz offered to draft a new Shared Values Statement for consideration at the next workshop.

Activity 3: Performance Metrics

The purpose of this activity was to review the Performance Metrics in the current strategic plan and begin identifying Performance Metrics and Milestones for the updated Action Plans. Sample performance metrics used by other utilities were presented. The facilitator recommended using the SMART criteria to guide in setting measurable and meaningful performance metrics.



Activity 4: Confirmation of Action Plans

The purpose of this activity was to confirm and refine as needed, the Action Plans developed in Workshop #3. The workshop participants were divided into the three breakout groups to discuss the Action Plans for their assigned Sustainability Goal: Resource, Operational or Financial, then share their discussions and proposed Action Plans with the entire group.

At the conclusion of Workshop #3, the general consensus was that the Action Plans were close to being finalized. The Performance Metrics associated with each of the Action Plan still needed to be identified and would be the major focus of the discussions for Workshop #4.



Stakeholder Advisory Group Presentation: April 21, 2022

The proposed revisions to the Sustainability Goals and Strategic Objectives were presented at the April 21, 2022, BWS Stakeholder Advisory Group (SAG) meeting. The purpose of the presentation was to obtain feedback from the SAG on the proposed direction of the BWS for the next 5 years. There were no major comments on the proposed revisions by the SAG and there was general agreement with the direction proposed by the BWS.

Workshop 4: May 26, 2022

Activity 1: Revisions to BWS Shared Values Statement

The purpose of this activity was to review the draft of the Shared Values Statement developed by the facilitator. The workshop participants were generally receptive to the draft Shared Values Statement. Proposed changes by the workshop participants would be used to finalize the Shared Values Statement.

Activity 2: Confirmation of Action Plans and Performance Metrics

The purpose of this activity was to confirm the Action Plans and identify the Key Action Plans that would be included in the Strategic Plan. Performance Metrics and/or Milestones to measure success in executing the Key Action Plans were also identified.

At the conclusion of Workshop #4, there was general acceptance of the revised Shared Values Statements, Key Action Plans and Performance Metrics and Milestones. No formal workshops were scheduled beyond Workshop #4 and any further changes/revisions to the elements of the Strategic Plan would be done through emails and small group discussions.

Findings and Recommendations

BWS VISION, MISSION AND SHARED VALUES STATEMENTS

The BWS Vision and Mission Statement remain unchanged. However, the Shared Values Statement were revised as follows:

OLD	NEW	
	Catch Phrase - "We..."	Description
<p>Team Responsibility: We depend upon and support each other and treat each other with dignity and respect.</p>	<p>...respect and support each other.</p>	<p>We depend upon and support each other and treat each other with dignity and respect.</p>
<p>Personal Responsibility: We are water professionals who earn and uphold the community's trust everyday through our actions and in doing our jobs right.</p>	<p>...strive to uphold our commitments.</p>	<p>We honor our commitments and communicate effectively with colleagues, partners, and stakeholders, to bridge differences and accomplish our collective goals.</p>
<p>Environmental Responsibility: We uphold the Public Trust* as thoughtful stewards of Oahu's water resources and the environment.</p>	<p>...maintain trust through our relationships.</p>	<p>We uphold the Public Trust* by participating in community partnerships, collaborating with community leaders and other public agencies, and being advocates of Oahu's water resources.</p> <p>*Principle embedded in Hawaii Law that recognizes that water is held in trust by the State of Hawaii for present and future generations.</p>
<p>Organizational Responsibility: We provide a healthy and safe work environment through cooperation, participating, and shared decision-making.</p>	<p>...invest in our staff.</p>	<p>We provide the necessary work environment, training, and tools for our staff to grow in the water utility business; and to complete their jobs safely, effectively and in support of our mission to provide safe, clean, affordable water.</p>
<p>Societal Responsibility: We provide quality service to our customers with the highest level of courtesy and efficiency.</p>	<p>...embrace opportunities for innovation.</p>	<p>We promote strategic innovation and new ideas in improving and maintaining our infrastructure to deliver water safely, reliably, and affordably to our customers.</p>



SUSTAINABILITY GOALS

The description of three overarching Sustainability Goals were amended as follows:

Goal	Old Description	New Description
Resource	Protect, conserve, and manage Oahu’s water supplies and watersheds now and into the future through adaptive and integrated strategies.	Protect and manage Oahu’s water resources and watersheds now and into the future through adaptive and integrated strategies.
Operational	Build an effective organization that continuously works to improve dependable service.	Manage and continuously refine an effective organization that can evolve and adapt to its human and physical resources to provide dependable service.
Financial	Implement sound fiscal strategies to provide safe, dependable, and affordable water service.	Implement sound fiscal strategies to support our mission.



STRATEGIC OBJECTIVES:

The Strategic Objectives to support the three overarching Sustainability Goals were amended as follows:

Resource Sustainability Goal:

OLD		NEW	
Category	Description	Category	Description
Climate Change	We will increase our understanding and mitigate and adapt to climate change to manage Oahu’s water resources and protect the limited water supply	Resource Sustainability	We will continuously adapt and implement resilient and sustainable solutions to mitigate climate and environmental changes to protect and manage Oahu’s water resources and watersheds.
Watershed Management	We will ensure healthy forests, recognizing the essential role of watersheds from mauka to		
Water Quality	We will protect, preserve, and collaborate to ensure the safety and quality of Oahu’s fresh water resource.	Water Quality	We will protect, preserve, and ensure the safety and quality of Oahu’s water resources extending for at least seven generations.
Water Conservation	We will conserve supply and system capacity by reducing per capita demand and increasing water efficiency.	Water Conservation	We will conserve Oahu’s water resources, supply, and system capacity by reducing per capita demand and increasing water use efficiency.
		Resource Advocacy	Lead, promote, and sustain partnerships with stakeholders to advocate and support community-driven initiatives to protect Oahu’s water resources and watersheds.



Operational Sustainability Goal:

OLD		NEW	
Category	Description	Category	Description
Organization	We will ensure the necessary workforce, competencies, tools and resources to support current and future needs.	Organizational Resiliency	We will ensure the necessary workforce, competencies, tools, and resources to support current and future needs.
Infrastructure	We will renew and improve the water system to ensure water system adequacy, dependable service and operational efficiency.	Infrastructure	We will proactively assess and address water system risks and vulnerabilities to ensure water system adequacy, dependable service, and operational efficiency.
Customer Service	We will proactively and consistently provide a quality experience in every customer interaction.	Customer Service	We will consistently provide dependable service and a quality experience in every customer interaction.
Technology	We will ensure that our technology systems are current and leverage opportunities in technology to efficiently support current and future BWS needs.	Technology	We will ensure that our technology is current, secure, and leveraged to effectively support current and future BWS needs.
		Strengthen Operational Partnerships	We will proactively collaborate with external government and community decision-makers and stakeholders to ensure that there is a holistic approach to critical environmental and social issues; and in so doing, reinforce the utility as a valued and trustworthy partner.



Financial Sustainability Goal:

OLD		NEW	
Category	Description	Category	Description
Financial Opportunities	We will pursue and leverage financial opportunities.	Financial Opportunities	We will strategically pursue and leverage financial opportunities.
Financial Planning	We will develop and implement short and long-term financial plans and policies.	Financial Planning	We will develop and implement short-, mid- and long-term financial policies and plans.
		Financial Accountability	We will be accountable and transparent to our stakeholders through responsible and effective financial management.



Key Action Plans and Performance Metrics and Milestones

The following Key Action Plans and Performance Metrics and Milestones were identified to help assess the progress of the BWS towards meeting the Sustainability Goals and Strategic Objectives identified in the new Strategic Plan.

RESOURCE SUSTAINABILITY GOAL		
Protect and manage Oahu’s water resources and watersheds now and into the future through adaptive and integrated strategies.		
Strategic Objectives	Key Action Plans	Performance Metrics and Milestones
<p><u>Resource Sustainability</u></p> <p>We will continuously adapt and implement resilient and sustainable solutions to mitigate climate and environmental changes to protect and manage Oahu’s water resources and watersheds.</p>	Complete the Kalaeloa seawater desalination plant - 1.7 MGD.	<ul style="list-style-type: none"> Complete procurement by 2023. Annual Board report on % project completion. Estimated project completion by 2025.
	Appropriate up to 4% of annual Capital Improvement Program funding for watershed management and invasive species control.	<ul style="list-style-type: none"> Annual Board report on actual removal of invasive plant species and protection measures for BWS priority watersheds. Develop strategies by January 2023 to increase funding expenditures for watershed management.
	Diversify alternative water supplies to reduce impacts on natural water resources.	<ul style="list-style-type: none"> Complete the Kalaeloa Seawater Desalination Plant (1.7 mgd) by 2025. Budget for construction East Kapolei 215 3.0 MG reservoir and connecting pipelines in FY 2024. Initiate design of project for Kapolei Parkway 24” transmission main to Kapolei Business Park by FY 2024. Support of gray/on-site water reuse initiatives and assist ENV on expanding R-1 reuse at WWTPs.
	Evaluate existing pumping operations to determine impacts to the aquifer and develop operational strategies and/or new sources to distribute source pumping.	Annual Board report on impact of existing pumping on aquifers. (Energy costs for pumping, chloride/head levels, ability to fill reservoirs, operation within permitted use).

RESOURCE SUSTAINABILITY GOAL		
Protect and manage Oahu’s water resources and watersheds now and into the future through adaptive and integrated strategies.		
Strategic Objectives	Key Action Plans	Performance Metrics and Milestones
<p><u>Water Quality</u></p> <p>We will protect, preserve, and ensure the safety and quality of Oahu’s water resources extending for at least seven generations.</p>	<p>Monitor the Red Hill groundwater contamination situation and take action to protect and preserve BWS wells near Red Hill fuel facility.</p>	<ul style="list-style-type: none"> • Participate in DOH/EPA working group. • Install 4 or more sentinel/monitor wells in Halawa/Moanalua/Aiea areas by December 2026.
<p><u>Water Conservation</u></p> <p>We will conserve Oahu’s water resources, supply and system capacity by reducing per capita demand and increasing water use efficiency.</p>	<p>Reduce water loss by 2% in BWS water system.</p>	<ul style="list-style-type: none"> • Calibrate largest source meters by 2027. • Continue leak detection and meter change out program (one cycle a year). • Complete AMR MXU change out program. • Continue replacement of priority pipelines to reduce main breaks and water loss. • Annual Board report on % non-revenue water loss.
<p><u>Resource Advocacy</u></p> <p>Lead, promote and sustain partnerships with stakeholders to advocate and support community-driven initiatives to protect Oahu’s water resources and watersheds.</p>	<p>Lead and engage with stakeholders and the community on resource protection initiatives.</p>	<ul style="list-style-type: none"> • Development of Initiatives (SWAP-Source Water Assessment Program/SWPP-Source Water Protection Program) including stakeholder outreach and develop SWPP plan by 2024.

OPERATIONAL SUSTAINABILITY GOAL		
Manage and continuously refine an effective organization that can evolve and adapt its human and physical resources to provide dependable service.		
Strategic Objectives	Key Action Plans	Performance Metrics and Milestones
<u>Organizational Resiliency</u> We will ensure the necessary workforce, competencies, tools and resources to support current and future needs.	Develop recruitment plan with metrics and implementation plan for Department by end of FY2023.	<ul style="list-style-type: none"> Determine a priority fill list for FY2023. Recommend to the Board an acceptable vacancy rate based on historical data for approval by 2024. Annual Board report on vacancy rate.
	Create a Facility Maintenance Division (FMD)	<ul style="list-style-type: none"> Obtain approval from Manager to begin reorganization to create FMD by December 2022. Gather data, complete analysis and submit justification memo to DHR by December 2023. Create new FMD by 2027.
<u>Infrastructure</u> We will proactively assess and address water system risks and vulnerabilities to ensure water system adequacy, dependable service, and operational efficiency.	Improve and maintain water infrastructure to ensure dependable service to our customers	<ul style="list-style-type: none"> Annual Board report on number of Main Breaks per 100 miles of Pipe with target of 15 or less. Annual Board report on number of leaks located and repaired per 100 miles with target of 30 or more. Annual Board report on number of switchgears maintained at pump stations with target of 15 facilities or more.
<u>Customer Service</u> We will consistently provide dependable service and a quality experience in every customer interaction.	Continue to improve work processes, efficiencies and quality assurance program.	<ul style="list-style-type: none"> All divisions to submit a work process improvement plan with metrics to measure success by December 2022. Annual Board report on Resident Overall Satisfaction with BWS (%); survey taken every 2 years with target of 70% or more.
<u>Technology</u> We will ensure that our technology is current, secure, and leveraged to effectively support current and future BWS needs.	Update IT Strategic Plan	<ul style="list-style-type: none"> Update plan by end of FY 2023. Develop milestone for FY24-26 based on plan.
<u>Strengthen Operational Partnerships</u>	Develop and adopt a plan to identify external public and private agencies with whom BWS should	<ul style="list-style-type: none"> Develop plan with Divisions/Staff Offices to



OPERATIONAL SUSTAINABILITY GOAL

Manage and continuously refine an effective organization that can evolve and adapt its human and physical resources to provide dependable service.

Strategic Objectives	Key Action Plans	Performance Metrics and Milestones
<p>We will proactively collaborate with external government and community decision-makers and stakeholders to ensure that there is a holistic approach to critical environmental and social issues; and in so doing, reinforce the utility as a valued and trustworthy partner.</p>	<p>meet on an on-going basis (no less than annually) and assign a BWS division or office to nurture each relationship by FY2025</p>	<p>determine public/private stakeholders by 12/31/2022.</p> <ul style="list-style-type: none"> • Manager to assign various Divisions/Staff Offices to begin outreach with stakeholders in 2023.



FINANCIAL SUSTAINABILITY GOAL		
Implement sound financial strategies to support our mission.		
Strategic Objectives	Action Plans	Performance Metrics and Milestones
<p><u>Financial Opportunities</u></p> <p>We will strategically pursue and leverage financial opportunities.</p>	<p>Effectively and strategically leverage debt and governmental funding for infrastructure investments.</p>	<ul style="list-style-type: none"> • Sept 2022 - submit WIFIA Letter of Interest • Jan 2024 - submit WIFIA application (if 2022 LOI is selected) • Submission of grant and funding applications as they become available, e.g. USBR grant, American Rescue Plan Act projects • May annually - submit projects eligible for SRF Intended Use Plan • Annual Board report on outstanding debt
<p><u>Financial Planning</u></p> <p>We will develop and implement short-, mid-, and long-term financial policies and plans.</p>	<p>Complete the cost-of-service study and water rate plan and update the financial model.</p>	<ul style="list-style-type: none"> • Sept 2022 - complete the financial model tool • Oct 2022 - begin community and government outreach • Dec 2022 - complete revised water rates • Oct 2023 - issue final report • Jan 2024 - new water rates become effective
<p><u>Financial Accountability</u></p> <p>We will be accountable and transparent to our stakeholders through responsible and effective financial management.</p>	<p>Maintain and/or exceed current bond rating.</p>	<p>Annual Board report on bond rating:</p> <p>AA+ - Fitch</p> <p>Aa2 - Moody's</p> <p>AAA - S & P</p>

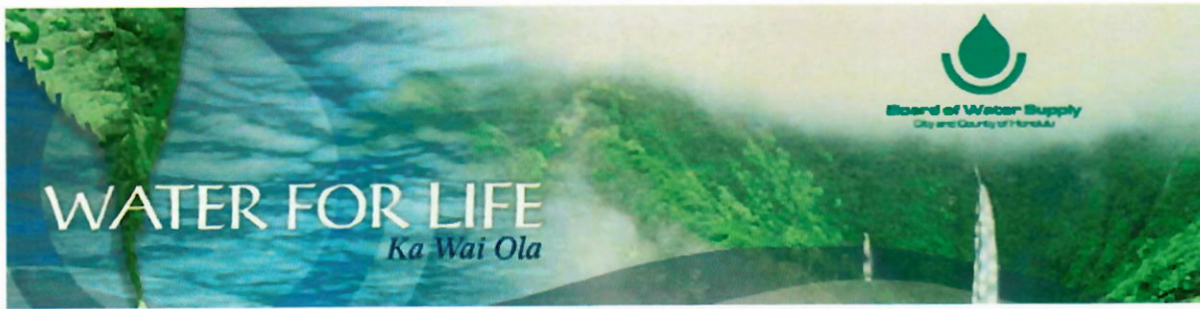
Next Steps

To comply with Hawaii Revised Statutes (HRS), Section 92.2.5(b)(1)(B), the Permitted Interaction Group report describing their findings and recommendations will be submitted to the Board at the July 25, 2022 Board Meeting. The findings will include a draft of the proposed Strategic Plan for FY 2023 - 2027. The Board may ask questions regarding the Permitted Interaction Group report to help get an understanding of the report and draft strategic plan. However, HRS, Section 92-



2.5.(b)(1)(C) requires that Board discussion, deliberation and decision-making occur at a subsequent meeting, tentatively scheduled for the next monthly Board meeting.

Using feedback from the Board on the PIG Report, the updated 5-Year Strategic Plan for FY 2023 - 2027 will be finalized and presented to the Board for adoption at the August 22, 2022, Board Meeting with implementation on September 1, 2022.



Board of Water Supply

STRATEGIC PLAN FISCAL YEARS 2023 – 2027

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Introduction

On January 24, 2022, the Board of Water Supply (BWS) Board of Directors (Board) approved the BWS request to update a new 5-Year Strategic Plan for Fiscal Years 2023 to 2027. At the same meeting, the Board created a Permitted Interaction Group consisting of 3 Board members to assist the BWS senior management team with the update of the strategic plan.

This project was a collaboration with the Board in their role of providing oversight and foresight into the direction of the BWS. Members Permitted Interaction Group and the BWS senior management team participated in a series of facilitated workshops between March to May 2022, to review, reconfirm and/or revise the Vision, Mission, Shared Values, Sustainability Goals, and the Strategic Objectives, and develop Key Action Plans with Performance Metrics and Milestones for the BWS.

The intent of this Strategic Plan is to provide guidance on how BWS employees will focus their commitment to deliver safe, dependable, and affordable water, now and into the future. The plan's timeframe is five years.

This document formalizes the BWS Vision, Mission, Shared Values, Sustainability Goals, Strategic Objectives, Key Action Plans and Performance Metrics and Milestones.

Letter from the Chair of the Board and the Manager and Chief Engineer

DRAFT

History of the Board of Water Supply

The Honolulu Board of Water Supply (BWS) was created in 1929. It was an action taken by the then-State Territorial Legislature in response to public outcry for a need for a truly effective water management system that was not influenced by politics.

In the previous years, droughts and the failure of the City Water Works Department to effectively manage uncontrolled drilling, led to drastically decreasing aquifer levels and water shortages. Several important meetings were held in Honolulu during this time, with citizens, legislators, engineering experts, and water works officials all working together to solve the critical water problem.

Local citizens and experts alike recommended the establishment of a commission to manage the municipal water system. A prime consideration in the creation of this commission was to remove the operation and management of the waterworks from direct political influence and control. Both groups agreed that proper management of the water system would be most effectively accomplished through the establishment of an independent, non-political commission whose members would be responsible citizens serving overlapping terms to assure continuity.

The 1929 Legislature considered these recommendations and passed Act 96 that created and defined the powers and duties of the Honolulu BWS. With this Act, the Legislature took the control of water away from the City and turned it over to the newly-created, semi-autonomous City agency, the Honolulu BWS.

Although it remained with the City and County, it was designed to be semi-autonomous and self-supporting with the authority to charge for water usage to support its capital improvement and operating expenses and set long term plans for Oahu's water future.

Today, a seven-member Board of Directors (Board) presides over the agency and sets its policies. Five at-large members are nominated by the Mayor and approved by the City Council. Two serve as ex-officio members, the Director of the State Department of Transportation and the Chief Engineer of the City Department of Facility Maintenance.

This Board sets the policy of the BWS. It also appoints the Manager and Chief Engineer who is responsible to administer the BWS and its operation.

The monies collected from water usage are used to finance the BWS' operations and projects. The BWS does not receive nor request money collected from property or other City and County taxes or fees, or from the State, to manage and operate the water supply.

Its semi-autonomous operations allow the BWS to continue to successfully fulfill its mission to provide Oahu water users with a safe, dependable, and affordable drinking water supply now and into the future.

BWS Vision

‘Ka Wai Ola – Water for Life’

The vision of the BWS captures the critical need of water, that water is the basis for life. With this vision comes the responsibility of the BWS’s stewardship of, and the duty to manage, our natural water resources and water sheds for present and future generations.

The ancient Hawaiians valued water as one of nature’s greatest gifts and they lived in harmony with water. Land divisions (ahupua’a) mirrored the natural ecosystem – from the mountain top through upland forests to flatlands and the shore. Formal rules governed the use of water, and regulations were established and enforced over water use in upland areas so that a pure flow was always available to those who lived at lower elevations.

BWS Mission

The Board of Water Supply provides safe, dependable, and affordable water now and into the future

Safe addresses the multiple areas of individual and community needs.

- Our water must meet all statutory and regulatory compliance standards in providing water for consumption and other uses.
- Our water must provide for public health and safety such as for firefighting and sanitation needs.

Dependable relies upon three factors:

- The **source of our water** must be sufficient and available now and into the future. The BWS ensures this through management of the watershed and groundwater supply, long-range planning, and possible development of alternative sources of water.
- A **water system** that is designed, constructed, and operated with system redundancy that continues delivery of water even with disruptions in the system.
- The **employees of BWS** who are committed to providing our customers with high quality water and excellent service.

Affordable water delivery that is safe and dependable is primary. We establish programs for efficiency in water use via conservation, infrastructure installation, and water system operations and maintenance. We continually implement changes to our systems to deliver water at the most responsible cost to the customer.

BWS Shared Values

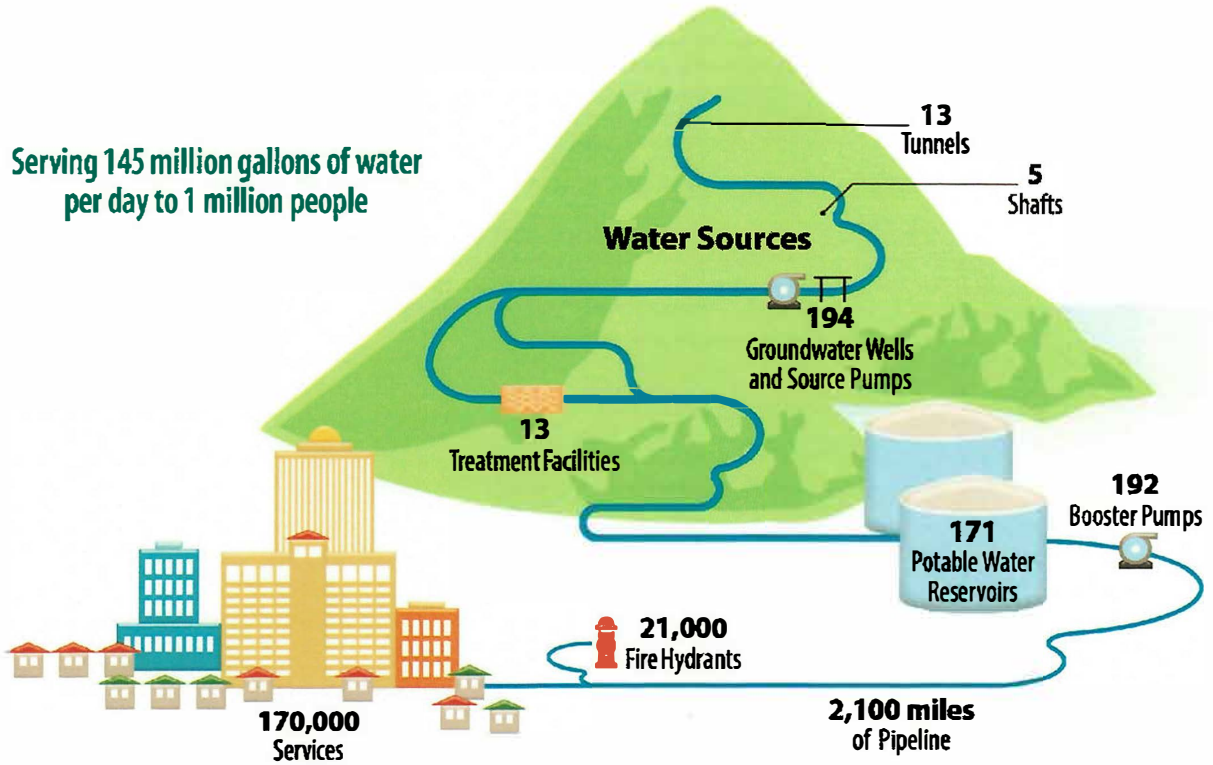
These values guide our employees, teams, and the organization in how we work together to accomplish our mission. The values reflect and reinforce our culture in our delivery of water service to our customers.

Catch Phrase – “We...”	Description
...respect and support each other.	We depend upon and support each other and treat each other with dignity and respect.
...strive to uphold our commitments.	We honor our commitments and communicate effectively with colleagues, partners, and stakeholders, to bridge differences and accomplish our collective goals.
...maintain trust through our relationships.	We uphold the Public Trust* by participating in community partnerships, collaborating with community leaders and other public agencies, and being advocates of Oahu’s water resources.
...invest in our staff.	We provide the necessary work environment, training, and tools for our staff to grow in the water utility business; and to complete their jobs safely, effectively and in support of our mission to provide safe, clean, affordable water.
...embrace opportunities for innovation.	We promote strategic innovation and new ideas in improving and maintaining our infrastructure to deliver water safely, reliably, and affordably to our customers.

**Public Trust – Principle embedded in Hawaii Law that recognizes that water is held in trust by the State of Hawaii for present and future generations. Pursuant to the Hawaii State Constitution, Article XI, Section 1, “For the benefit of present and future generations, the State and its political subdivisions shall conserve and protect Hawaii’s natural beauty and all natural resources, including land, water, air, minerals, and energy sources, and shall promote the development and utilization of these resources in a manner consistent with their conservation and in furtherance of the self-sufficiency of the State. All public natural resources are held in trust by the State for the benefit of the people.”*

BWS Water System

For decades, the BWS has built, operated, and maintained a complex infrastructure to provide safe, dependable, and affordable service to our customers.



Source: BWS Water Master Plan, adopted October 2016

Six primary steps provide water from source to tap. These primary steps are managed and enabled on a daily basis through the water system infrastructure and workforce of the BWS.



Groundwater is O'ahu's only current supply source for potable water, coming from high quality, naturally filtered, reliable aquifer storage. The BWS manages **thousands acres of watershed area** on O'ahu to protect and preserve underlying water sources. Efforts to manage and protect the watersheds include limiting access and development, combatting invasive plants and animals, promoting healthy forests, and encouraging customer water conservation. The BWS also owns and maintains **5 dams or open reservoirs**, 4 of which currently provide flood control and the other storing non-potable water for irrigation.

Several approaches are used to capture groundwater. The BWS operates **194 groundwater wells**. Each well requires drilling into the ground, sometimes hundreds of feet below the surface. In addition, **5 water shafts** provide access to groundwater. Unlike wells that penetrate deeply with small-diameter holes, shafts are dug out of rock to reach groundwater. The BWS also maintains and operates **13 tunnels**, dug horizontally into the mountains to access stored groundwater.



The majority of the island's groundwater is exceptionally pure, requiring treatment only to assure it remains ready to drink as it travels through the distribution system that takes it from source to use. Some sources, particularly in Central O'ahu, require treatment primarily to address legacy agricultural contamination. The BWS operates **13 granular activated carbon facilities** to remove these contaminants. The BWS also operates the Honouliuli Water Recycling Facility that treats and supplies non-potable recycled water for industrial and irrigation uses.

Water sources on the island are sufficient, but are not always located where the supply is needed. Large transmission pipelines have been installed by the BWS to carry water from the source to the general area where it will be used. The **360 miles of transmission pipelines** vary from 16 to 42 inches in diameter. The BWS maintains **192 booster pumps** that keep the water moving through the piping system. This is in addition to **194 pumps, one at each well**.



Reservoirs (large covered tanks) have been built by the BWS at varied locations throughout the system to store water close to the point of use. The reservoirs store water for high demand periods and fire protection, and add dependability to the system. There are **171 potable water reservoirs** across O'ahu, together capable of storing about 196.5 million gallons. In addition, **7 non-potable reservoirs** can store approximately 15 million gallons of recycled or brackish water, used for irrigation or industrial purposes.

Once the water has been carried to the general area where it is needed, it moves into the distribution system to be delivered to its point of use through distribution pipelines that are less than 16 inches in diameter. In total, the BWS system includes **2,100 miles of pipeline**, necessary to serve water to nearly 1 million people across O'ahu through about **170,000 services**. The BWS's customers include residential, commercial, and industrial users. In addition to these potable water customers, the BWS serves non-potable water for use in golf course irrigation and industrial processes.



Source: BWS Water Master Plan, adopted October 24 2016

BWS Sustainability Goals

For many years, BWS has communicated its efforts through three sustainability goals: Resource Sustainability, Operational Sustainability, and Financial Sustainability. These overarching agency goals create alignment with the vision and mission, program priorities, and action plans.

Resource Sustainability (Safe)

Protect and manage Oahu's water resources and watersheds now and into the future through adaptive and integrated strategies.

Operational Sustainability (Dependable)

Manage and continuously refine an effective organization that can evolve and adapt its human and physical resources to provide dependable service.

Financial Sustainability (Affordable)

Implement sound fiscal strategies to support our mission.



BWS Strategic Objectives

With the validation of the three Sustainability Goals, the Permitted Interaction Group and BWS senior management team participated in facilitated workshops to review the Strategic Objectives to support the three overarching Sustainability Goals.

Periodic progress reports to the Board and an annual review by the BWS senior management team will ensure that BWS meets these Strategic Objectives to reaffirm their alignment to the agency's Sustainability Goals.

Sustainability Goals	Category	Strategic Objective
Resource	Resource Sustainability	We will continuously adapt and implement resilient and sustainable solutions to mitigate climate and environmental changes to protect and manage Oahu's water resources and watersheds.
Resource	Water Quality	We will protect, preserve, and ensure the safety and quality of Oahu's water resources extending for at least seven generations.
Resource	Water Conservation	We will conserve Oahu's water resources, supply, and system capacity by reducing per capita demand and increasing water efficiency.
Resource	Resource Advocacy	Lead, promote, and sustain partnerships with stakeholders to advocate and support community-driven initiatives to protect Oahu's water resources and watersheds.
Operational	Organizational Resiliency	We will ensure the necessary workforce, competencies, tools, and resources to support current and future needs.
Operational	Infrastructure	We will proactively assess and address water system risks and vulnerabilities to ensure water system adequacy, dependable service, and operational efficiency.
Operational	Customer Service	We will consistently provide dependable service and a quality experience in every customer interaction.
Operational	Technology	We will ensure that our technology systems are current, secure, and leveraged to effectively support current and future BWS needs.

Sustainability Goals	Category	Strategic Objective
Operational	Strengthen Operational Partnerships	We will proactively collaborate with external government and community decision-makers and stakeholders to ensure that there is a holistic approach to critical environmental and social issues; and in so doing, reinforce the utility as a valued and trustworthy partner.
Financial	Financial Opportunities	We will strategically pursue and leverage financial opportunities.
Financial	Financial Planning	We will develop and implement short-, mid- and long-term financial plans and policies.
Financial	Financial Accountability	We will be accountable and transparent to our stakeholders through responsible and effective financial management.

BWS Key Action Plans, Performance Metrics and Milestones

The following Key Action Plans and Performance Metrics and Milestones help assess the progress of the BWS towards meeting the Sustainability Goals and Strategic Objectives identified in the new Strategic Plan.

RESOURCE SUSTAINABILITY GOAL		
Protect and manage Oahu’s water resources and watersheds now and into the future through adaptive and integrated strategies.		
Strategic Objectives	Key Action Plans	Performance Metrics and Milestones
<u>Resource Sustainability</u> We will continuously adapt and implement resilient and sustainable solutions to mitigate climate and environmental changes to protect and manage Oahu’s water resources and watersheds.	Complete the Kalaeloa seawater desalination plant – 1.7 MGD.	<ul style="list-style-type: none"> • Complete procurement by 2023. • Annual Board report on % project completion. • Estimated project completion by 2025.
	Appropriate up to 4% of annual Capital Improvement Program funding for watershed management and invasive species control.	<ul style="list-style-type: none"> • Annual Board report on actual removal of invasive plant species and protection measures for BWS priority watersheds. • Develop strategies by January 2023 to increase funding expenditures for watershed management.
	Diversify alternative water supplies to reduce impacts on natural water resources.	<ul style="list-style-type: none"> • Complete the Kalaeloa Seawater Desalination Plant (1.7 mgd) by 2025. • Budget for construction East Kapolei 215 3.0 MG reservoir and connecting pipelines in FY 2024. • Initiate design of project for Kapolei Parkway 24” transmission main to Kapolei Business Park by FY 2024. • Support of gray/on-site water reuse initiatives and assist ENV on expanding R-1 reuse at WWTPs.

RESOURCE SUSTAINABILITY GOAL		
Protect and manage Oahu's water resources and watersheds now and into the future through adaptive and integrated strategies.		
Strategic Objectives	Key Action Plans	Performance Metrics and Milestones
	Evaluate existing pumping operations to determine impacts to the aquifer and develop operational strategies and/or new sources to distribute source pumping.	Annual Board report on impact of existing pumping on aquifers. (Energy costs for pumping, chloride/head levels, ability to fill reservoirs, operation within permitted use).
<u>Water Quality</u> We will protect, preserve, and ensure the safety and quality of Oahu's water resources extending for at least seven generations.	Monitor the Red Hill groundwater contamination situation and take action to protect and preserve BWS wells near Red Hill fuel facility.	<ul style="list-style-type: none"> • Participate in DOH/EPA working group. • Install 4 or more sentinel/monitor wells in Halawa/Moanalua/Aiea areas by December 2026.
<u>Water Conservation</u> We will conserve Oahu's water resources, supply and system capacity by reducing per capita demand and increasing water use efficiency.	Reduce water loss by 2% in BWS water system.	<ul style="list-style-type: none"> • Calibrate largest source meters by 2027. • Continue leak detection and meter change out program (one cycle a year). • Complete AMR MXU change out program. • Continue replacement of priority pipelines to reduce main breaks and water loss. • Annual Board report on % non-revenue water loss.
<u>Resource Advocacy</u> Lead, promote and sustain partnerships with stakeholders to advocate and support community-driven initiatives to protect Oahu's water resources and watersheds.	Lead and engage with stakeholders and the community on resource protection initiatives.	<ul style="list-style-type: none"> • Development of Initiatives (SWAP-Source Water Assessment Program/SWPP-Source Water Protection Program) including stakeholder outreach and develop SWPP plan by 2024.

OPERATIONAL SUSTAINABILITY GOAL		
Manage and continuously refine an effective organization that can evolve and adapt its human and physical resources to provide dependable service.		
Strategic Objectives	Action Plans	Performance Metrics and Milestones
<p><u>Organizational Resiliency</u></p> <p>We will ensure the necessary workforce, competencies, tools and resources to support current and future needs.</p>	<p>Develop recruitment plan with metrics and implementation plan for Department by end of FY2023.</p>	<ul style="list-style-type: none"> • Determine a priority fill list for FY2023. • Recommend to the Board an acceptable vacancy rate based on historical data for approval by 2024. • Annual Board report on vacancy rate.
	<p>Create a Facility Maintenance Division (FMD)</p>	<ul style="list-style-type: none"> • Obtain approval from Manager to begin reorganization to create FMD by December 2022. • Gather data, complete analysis and submit justification memo to DHR by December 2023. • Create new FMD by 2027.
<p><u>Infrastructure</u></p> <p>We will proactively assess and address water system risks and vulnerabilities to ensure water system adequacy, dependable service and operational efficiency.</p>	<p>Improve and maintain water infrastructure to ensure dependable service to our customers</p>	<ul style="list-style-type: none"> • Annual Board report on number of main breaks per 100 miles of pipe with target of 15 or less. • Annual Board report on number of leaks located and repaired per 100 miles with target of 30 or more. • Annual Board report on number of switchgears maintained at pump stations with target of 15 facilities or more.
<p><u>Customer Service</u></p> <p>We will consistently provide dependable service and a quality experience in every customer interaction.</p>	<p>Continue to improve work processes, efficiencies and quality assurance program.</p>	<ul style="list-style-type: none"> • All divisions to submit a work process improvement plan and metric to measure success by December 2022. • Annual Board report on Resident Overall Satisfaction with BWS (%); survey taken every 2 years with target of 70% or more.
<p><u>Technology</u></p> <p>We will ensure that our technology is current, secure, and leveraged to effectively support current and future BWS needs.</p>	<p>Update IT Strategic Plan</p>	<ul style="list-style-type: none"> • Update plan by end of FY 2023. • Develop milestone for FY24-26 based on plan.
<p><u>Strengthen Operational Partnerships</u></p> <p>We will proactively collaborate with external government and community decision-makers and stakeholders to ensure that there is a holistic approach to critical environmental and social issues; and in so doing, reinforce the utility as a valued and trustworthy partner.</p>	<p>Develop and adopt a plan to identify external public and private agencies with whom BWS should meet on an on-going basis (no less than annually) and assign a BWS division or office to nurture each relationship by FY2025.</p>	<ul style="list-style-type: none"> • Develop plan with Divisions/Staff Offices to determine public/private stakeholders by 12/31/2022. • Manager to assign various divisions to begin outreach with stakeholders in 2023.

FINANCIAL SUSTAINABILITY GOAL		
Implement sound financial strategies to support our mission.		
Strategic Objectives	Action Plans	Performance Metrics and Milestones
<p><u>Financial Opportunities</u></p> <p>We will strategically pursue and leverage financial opportunities.</p>	<p>Effectively and strategically leverage debt and governmental funding for infrastructure investments.</p>	<ul style="list-style-type: none"> • Sept 2022 – submit WIFIA Letter of Interest. • Jan 2024 – submit WIFIA application (if 2022 LOI is selected). • Submission of grant and funding applications as they become available, e.g. USBR grant, American Rescue Plan Act projects. • May annually – submit projects eligible for SRF Intended Use Plan. • Annual Board report on outstanding debt.
<p><u>Financial Planning</u></p> <p>We will develop and implement short-, mid-, and long-term financial policies and plans.</p>	<p>Complete the cost-of-service study and water rate plan and update the financial model.</p>	<ul style="list-style-type: none"> • Sept 2022 – complete the financial model tool. • Oct 2022 – begin community and government outreach. • Dec 2022 – complete revised water rates. • Oct 2023 – issue final report. • Jan 2024 – new water rates become effective.
<p><u>Financial Accountability</u></p> <p>We will be accountable and transparent to our stakeholders through responsible and effective financial management.</p>	<p>Maintain and/or exceed current bond rating.</p>	<p>Annual Board report on bond ratings: AA+ - Fitch Aa2 – Moody's AAA – S & P</p>

ITEM FOR INFORMATION NO. 3

“July 25, 2022

UPDATE ON FEE
WAIVERS FOR
AFFORDABLE
HOMELESS AND
AUTOMATIC
FIRE SPRINKLER
RETROFIT
PROJECTS

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

Chair and Members:

Subject: Update on Fee Waivers for Affordable, Homeless and Automatic Fire Sprinkler Retrofit Projects

Jennifer Elflein, Program Administrator, Customer Care Division, will present an update on the Board of Water Supply’s Fee Waivers for Affordable Housing, Homeless and Automatic Fire Sprinkler Retrofit Projects.

Respectfully Submitted,

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

Attachment”

The foregoing was for information only.

DISCUSSION:

Jennifer Elflein, Program Administrator, Customer Care Division, gave the report.

Board Member Anthony asked who would have the responsibility to extend the Fee Waivers for Affordable, Homeless and Automatic Fire Sprinkler Retrofit Projects.

Manager Lau responded that the funding would come from the BWS budget and the Board would have to decide whether to extend the Fee Waivers by the end of Fiscal Year 2023. The BWS waived over \$2 million (M) in the water system facility and meter charges to date. He explained that if the Board decides to extend the Fee Waivers for Affordable, Homeless and Automatic Fire Sprinkler Retrofit Projects, it would affect the BWS revenues and benefit the developer because those fees would be waived.

Vice Chair Sproat stated that affordable housing was a priority for the last administration and due to impact concerns, the BWS did a 5-year trial run that would end at the end of the Fiscal Year 2023. She inquired about the impacts on the BWS and any thoughts that the BWS might have.

Manager Lau replied that the Fee Waivers for Affordable, Homeless and Automatic Fire Sprinkler Retrofit Projects had a slow start but gradually reached the limit of 500 units. He shared that the BWS’s revenue has

been impacted by the fees that have been waived for water system facility charges, meter charges, and fees collected, but the program is well received by developers for affordable homes. The program demonstrates that the Board and the BWS are committed to supporting affordable housing. However, with the crisis that is being faced at Red Hill, the Board and the BWS will need to consider the increasing water demand of nearly 5.4 mgd, the 4,000 permits and projects received, and the financial impact on the BWS, as the rate study is still underway. Manager Lau stated he would support the project with set limits.

Chair Andaya reiterated that the project has met the limit, therefore, the Board will revisit and discuss the extension of the Fee Waivers for Affordable, Homeless and Automatic Fire Sprinkler Retrofit Project, and the financial impact it will have on the BWS. He suggested that the discussion and decision be scheduled for a future meeting.

Board Member Sword asked if the data is being collected for projects.

Manager Lau responded that the BWS is currently doing a cost service rate study.

Board Member Sword requested that when the discussion to extend Fee Waivers for Affordable, Homeless and Automatic Fire Sprinkler Retrofit Project is scheduled that data be presented.

Manager Lau replied that the BWS would be able to provide data, however, may not coincide with the next rate study.

Board Member Soon suggested that since the Fee Waivers for Affordable, Homeless and Automatic Fire Sprinkler Retrofit Project is a collective effort of various city departments that it should be discussed with the administration.

Manager Lau responded that he would meet with the Mayor and discuss the project.



UPDATE ON FEE
WAIVERS FOR
AFFORDABLE,
HOMELESS AND
AUTOMATIC FIRE
SPRINKLER RETROFIT
PROJECTS

Jennifer Elflein, Customer Care

July 25, 2022

boardofwatersupply.com

WAIVER OF FEES FOR AFFORDABLE, HOMELESS AND FIRE SPRINKLER RETROFIT PROJECTS UPDATE SUMMARY

Fiscal Year	# Affordable Dwelling Units	# Homeless Dwelling Units	# Total Qualified Units	\$ Waived WFSC	\$ Waived Meter Costs	\$ Waived Fire Sprinkler Meter	\$ Annual Fees Waived
FY 2018 – 2019	76	102	178	\$103,432.03	\$10,332.00		\$113,764.03
FY 2019 – 2020	302	0	302	\$489,770.41	\$14,608.00		\$504,378.41
FY 2020 – 2021	578	0	578	\$789,665.47	\$10,675.00		\$800,340.47
FY 2021 – 2022	514	0	514	\$648,266.54	\$3,024.00		\$651,290.54
FY 2022 – 2023							
TOTALS to date	1,470	102	1,572	\$2,031,134.45	\$38,639.00		\$2,069,773.45



WAIVER OF FEES FOR AFFORDABLE, HOMELESS AND FIRE SPRINKLER RETROFIT PROJECTS UPDATE FY 2018-2019

Project Name	Type	# Qualified Units	\$ WSFC Fees Waived	\$ Meter Fees Waived	\$ Fire Sprinkler Fees Waived	\$ Total Fees Waived
Kauhale Kamaile Modular Homes	Affordable	16	\$14,455.74			\$14,455.74
1902 Young Street Multi-Family Housing	Affordable	30	\$35,543.55	\$1,702.00		\$37,245.55
Kahauiki Village	Homeless	24	\$35,583.36	\$7,304.00		\$42,887.36
Hale Mauiola	Homeless	78	\$7,357.61			\$7,357.61
1936 Citron Street	Affordable	30	\$10,491.77	\$1,326.00		\$11,817.77
TOTALS		178	\$103,432.03	\$10,332.00		\$113,764.03



WAIVER OF FEES FOR AFFORDABLE, HOMELESS AND FIRE SPRINKLER RETROFIT PROJECTS UPDATE FY 2019-2020

Project Name	Type	# Qualified Units	\$ WSFC Fees Waived	\$ Meter Fees Waived	\$ Fire Sprinkler Fees Waived	\$ Total Fees Waived
Queen Emma Building	Affordable	71	\$79,708.87			\$79,708.87
Azure	Affordable	78	\$87,567.48			\$87,567.48
Maunakea Marketplace	Affordable	38	\$46,069.90			\$46,069.90
Hale Makana O Maili	Affordable	51	\$106,934.65	\$7,304.00		\$114,238.65
The Elemental (Phase 1)	Affordable	42	\$112,794.08	\$7,304.00		\$120,098.08
The Elemental (Phase 2)	Affordable	22	\$56,695.43			\$56,695.43
TOTALS		302	\$489,770.41	\$14,608.00		\$504,378.41



WAIVER OF FEES FOR AFFORDABLE, HOMELESS AND FIRE SPRINKLER RETROFIT PROJECTS UPDATE FY 2020-2021

Project Name	Type	# Qualified Units	\$ WSFC Fees Waived	\$ Meter Fees Waived	\$ Fire Sprinkler Fees Waived	\$ Total Fees Waived
Halewaiolu Senior Residences	Affordable	155	\$174,012.31	\$7,304.00		\$181,316.31
902 Alder Street Project	Affordable	200	\$237,958.00			\$237,958.00
West Loch Modular Housing Project	Affordable	58	\$87,620.21	\$376.00		\$87,996.21
Ililani	Affordable	165	\$290,074.95	\$2,995.00		\$293,069.95
TOTALS		578	\$789,665.47	\$10,675.00		\$800,340.47



WAIVER OF FEES FOR AFFORDABLE, HOMELESS AND FIRE SPRINKLER RETROFIT PROJECTS UPDATE FY 2021-2022

Project Name	Type	# Qualified Units	\$ WSFC Fees Waived	\$ Meter Fees Waived	\$ Fire Sprinkler Fees Waived	\$ Total Fees Waived
Hale Makana O Mo'ili'ili	Affordable	104	\$117,990.64	\$1,324.00		\$119,314.64
Kokua Elderly Housing	Affordable	222	\$249,230.52	\$1,324.00		\$250,554.52
Ililani	Affordable	32	\$83,158.50			\$83,158.50
806/818 Iwilei Road	Affordable	27	\$30,311.83	\$376.00		\$30,687.83
Malina at Koa Ridge Phase 4	Affordable	34	\$43,710.81			\$43,710.81
Malina at Koa Ridge Phase 5	Affordable	26	\$32,936.05			\$32,936.05
Wailepo Hale	Affordable	36	\$41,939.39			\$41,939.39
CoolMetro Apartments	Affordable	33	\$48,988.80			
TOTALS		514	\$648,266.54	\$3,024.00		\$651,290.54



WAIVER OF FEES FOR AFFORDABLE, HOMELESS AND FIRE SPRINKLER RETROFIT PROJECTS UPDATE

Waiver of Water System Facilities Charge for Qualified Affordable and Homeless Dwelling Units

The Board of Water Supply may waive the Water Systems Facilities Charges and new meter cost for qualified on-site affordable and homeless dwelling units, up to 500 dwelling units per year. The waivers will be granted when the building permit is submitted for approval. To qualify, the dwelling units must be certified as either affordable or homeless dwelling units by the appropriate agency of the City and County of Honolulu. Waiver of the Water System Facilities Charge will apply only to fixture units associated with the certified dwelling units. The amount of the meter waiver shall be calculated as a percentage of the number of certified dwelling units to the total number of dwelling units in the project. If the annual cap of 500 dwelling units has not been reached and a project is proposed that would qualify for more than the remaining number of dwelling units in that year, the Manager and Chief Engineer has the discretion to increase that year's limit. This waiver provision shall expire on June 30, 2023.

Waiver of Meter Charges for Residential Fire Sprinkler Retrofits

The Board of Water Supply may waive the new meter charges for high rise multi-unit residential fire sprinkler retrofits. This waiver provision shall expire on June 30, 2023.

Revision to the Schedule of Rates and Charges for the Furnishing of Water Service

Amended by Resolution No. 889, 2018, effective September 15, 2018



FEE WAIVERS – ADDITIONAL INFORMATION

- To be eligible for the fee waivers, the developer must obtain a letter from the City certifying that the project is an affordable housing or homeless project.
- Eligible fees will be waived when the building permits are submitted for review and approval.
- Fee waivers will not be retroactive. Only projects submitting building permits on or after the effective date will be considered unless the project obtained prior approval from BWS for the fee waiver.
- Fee waivers will apply only to fixture units associated with the affordable housing and homeless dwelling units.
- Only costs associated with the one-time charge for the fire sprinkler meter will be waived for the residential fire sprinkler retrofit projects.
- The BWS will report annually on the amount of dwelling units and all fee waivers approved by BWS.
- The effective date of the fee waiver program is September 15, 2018 Revision to the Schedule of Rates and Charges for the Furnishing of Water Service, amended by Resolution No. 889, 2018
- Unless extended by the Board the fee waiver program will expire on June 30, 2023.





Mahalo!

BOARD OF WATER SUPPLY

Affordable/Homeless/Fire Sprinkler Project Update

Jennifer Elflein

(808) 748-5300, jelflein@hbws.org

boardofwatersupply.com for more information

July 25, 2022

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

ITEM FOR INFORMATION NO. 4

"July 25, 2022

**RECRUITMENT
STATUS**

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

Chair and Members:

Subject: Recruitment Status

Michele L. Thomas, Executive Assistant, Human Resources Office, will be presenting an update on the Recruitment Status for the period of April 2022 to June 2022.

Respectfully Submitted,

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

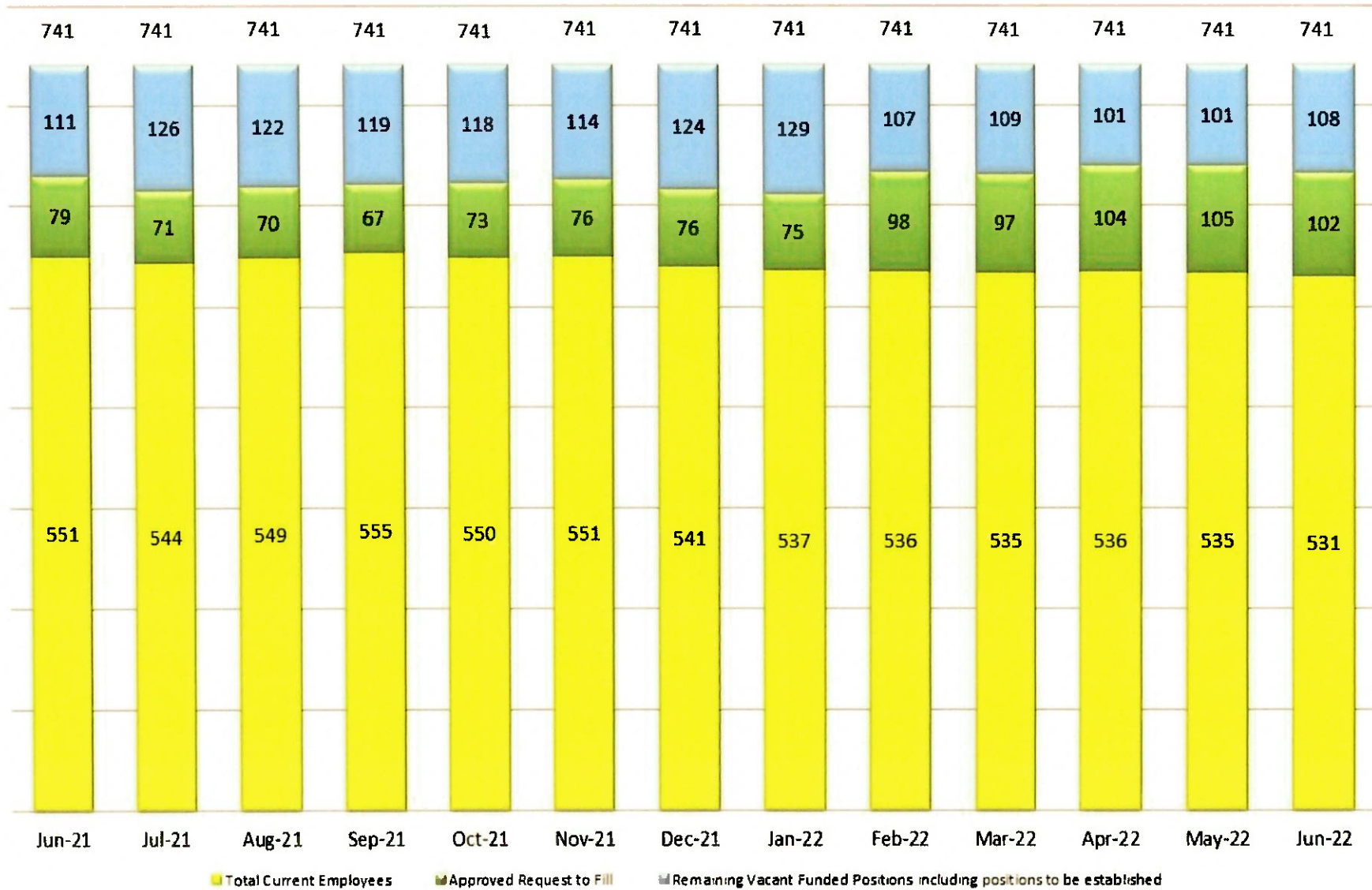
Attachment"

The foregoing was for information only.

DISCUSSION:

Michele L. Thomas, Executive Assistant, Human Resources Office, gave the report. There were no comments or discussion.

Positions Filled June 1, 2021 through June 30, 2022



For the Period Apr22 – Jun22 Actions: 7 New hires, 4 Promotions, 4 Transfers, 1 Demotion, 11 Separations, 4 Cancelled requests

BOARD OF WATER SUPPLY

City and County of Honolulu

RECRUITMENT AND SEPARATION STATUS

For Period April 30, 2022 to June 30, 2022

Status of Positions Under Recruitment

	as of		
	4/30/2022	5/31/2022	6/30/2022
Pending DHR Open List (external recruitment)	31	22	31
Pending Internal recruitments	3	6	7
Pending Final Interview Questions	29	32	16
Pending Interviews with Division	27	37	36
Anticipated Starts (pre-employment clearances)	10	6	12
Total Positions Under Recruitment	104	105	102

Filled Positions

Month	Apr-22	May-22	Jun-22
Open list	3	4	1
Internal Promotions	1	1	1
Internal Demotions/Transfers	0	2	3
Upward Reallocations	0	3	6

Separations

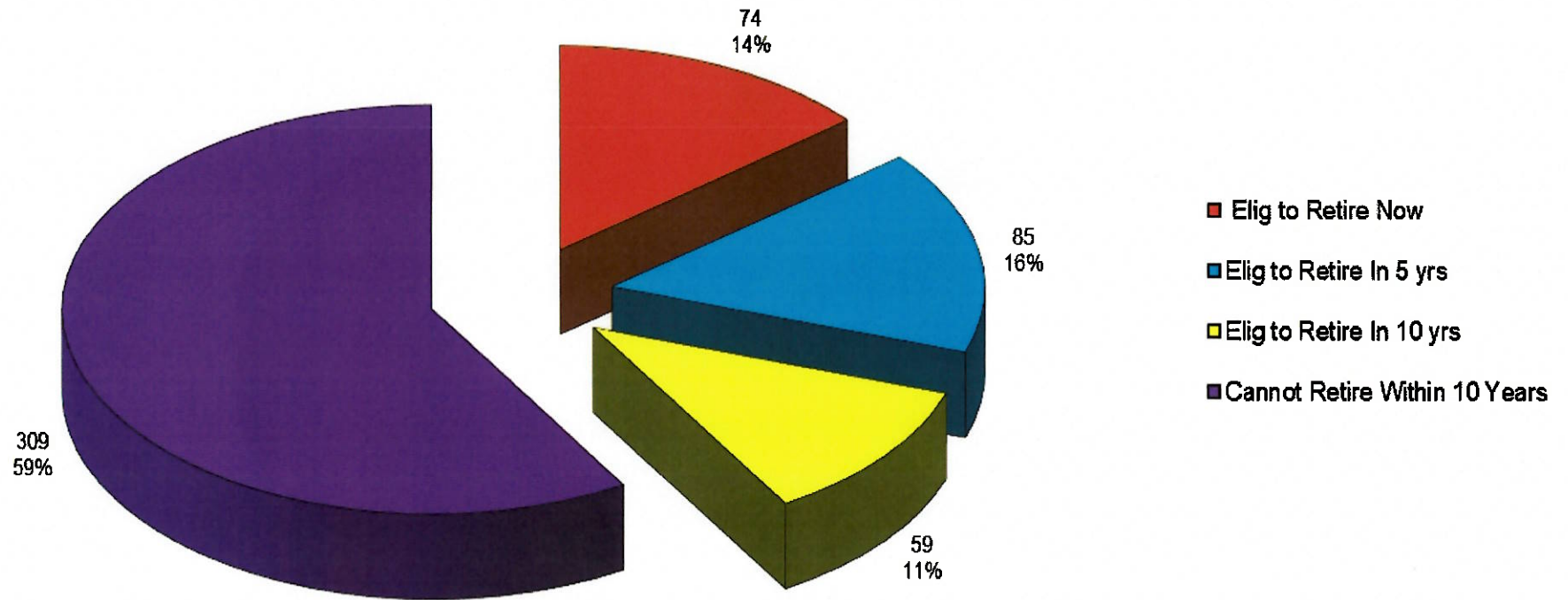
Month	Apr-22	May-22	Jun-22
Retire	2	4	1
Resign/Termination/Other	0	1	3

Legend:

DHR = Department of Human Resources City and County of Honolulu

Reallocation = Employee has demonstrated competency in higher level position and position was adjusted

BWS Retirement Projections As of June 30, 2022



ITEM FOR INFORMATION NO. 5

"July 25, 2022

STATUS
UPDATE OF
GROUNDWATER
LEVELS AT
ALL INDEX
STATIONS

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

Chair and Members:

Subject: Status Update of Groundwater Levels at All Index Stations

Three aquifer index stations were in low groundwater condition for the production month of May 2022. Waialua is in Caution Status. Kaimuki and Punaluu are in Alert Status. The monthly production average for May 2022 was 134.13 million gallons per day.

The Board of Water Supply (BWS) rainfall index for the month of May 2022 was 103 percent of normal, with a 5-month moving average of 76 percent. The National Weather Service (NWS) has noted that a mid-May storm event supplemented rainfall totals for portions of Oahu. This is reflected at some of the BWS rain gauges, primarily in metropolitan Honolulu.

As of June 7, 2022, the Hawaii Drought Monitor shows zero drought to severe drought conditions moving westward across Oahu. The NWS is forecasting enhanced probabilities for below-normal precipitation through November 2022.

Most monitoring wells exhibited relatively stable head levels for the month, likely due to the relatively lower overall groundwater production offsetting varying amounts of rainfall across the island. Average monthly Production for May 2022 was lower than the previous year and the 5-year monthly average.

Respectfully Submitted,

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

Attachment"

The foregoing was for information only.

DISCUSSION:

Barry Usagawa, Program Administrator, Water Resources Division, gave the report. There were no comments or discussion.

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

POTABLE

STATION	MGD
HONOLULU (1)	
KULIOUOU	0.01
WAILUPE	0.14
AINA KOA	0.20
AINA KOA II	0.74
MANOA II	0.92
PALOLO	1.12
KAIMUKI HIGH	2.39
KAIMUKI LOW	3.30
WILDER	9.20
BERETANIA HIGH	2.71
BERETANIA LOW	4.43
KALIHI HIGH	0.00
KALIHI LOW	3.73
KAPALAMA	1.40
KALIHI SHAFT	8.51
MOANALUA	0.85
HALAWA SHAFT	0.00
KAAMILO	0.61
KALAUAO	6.44
PUNANANI	11.73
KAAHUMANU	0.34
HECO WAIU	2.47
MANANA	0.28
WELLS SUBTOTAL:	61.54
MANOA TUNNEL	0.17
PALOLO TUNNEL	0.00
GRAVITY SUBTOTAL:	0.17
HONO. SUBTOTAL:	61.71

STATION	MGD
WINDWARD (2)	
WAIMANALO II	0.31
WAIMANALO III	0.00
KUOU I	1.00
KUOU II	0.02
KUOU III	0.74
LULUKU	0.87
HAIKU	0.35
IOLEKAA	0.00
KAHALUU	0.70
KAHANA	0.86
PUNALUU I	0.00
PUNALUU II	4.36
PUNALUU III	0.43
KALUANUI	1.90
MAAKUA	0.31
HAUULA	0.26
WELLS SUBTOTAL:	12.10
WAIM. TUNNELS I & II	0.00
WAIM. TUNNELS III&IV	0.19
WAIHEE INCL. WELLS	0.29
WAIHEE TUNNEL	4.08
LULUKU TUNNEL	0.18
HAIKU TUNNEL	0.30
KAHALUU TUNNEL	1.30
GRAVITY SUBTOTAL:	6.34
WIND. SUBTOTAL:	18.44

STATION	MGD
NORTH SHORE (3)	
KAHUKU	0.45
OPANA	1.02
WAIALEE I	0.09
WAIALEE II	0.30
HALEIWA	0.00
WAIALUA	2.34
N.SHORE SUBTOTAL:	4.20

STATION	MGD
MILILANI (4)	
MILILANI I	1.55
MILILANI II	0.00
MILILANI III	0.80
MILILANI IV	2.43
MILILANI SUBTOTAL:	4.78

STATION	MGD
WAHIAWA (5)	
WAHIAWA	1.44
WAHIAWA II	1.79
WAHIAWA SUBTOTAL:	3.23

STATION	MGD
PEARL CITY-HALAWA (6)	
HALAWA 277	0.00
HALAWA 550	0.00
AIEA	0.00
AIEA GULCH 497	0.77
AIEA GULCH 550	0.43
KAONOHI I	1.30
WAIMALU I	0.00
NEWTOWN	1.84
WAIU	1.92
PEARL CITY I	0.85
PEARL CITY II	1.16
PEARL CITY III	0.24
PEARL CITY SHAFT	0.91
PEARL CITY-HALAWA SUBTOTAL:	9.42

STATION	MGD
WAIPAHU-EWA (7)	
WAIPHO HTS.	1.67
WAIPHO HTS. I	0.00
WAIPHO HTS. II	0.39
WAIPHO HTS. III	1.17
WAIPAHU	4.24
WAIPAHU II	1.89
WAIPAHU III	4.19
WAIPAHU IV	2.76
KUNIA I	4.20
KUNIA II	2.04
KUNIA III	1.50
HOAEAE	6.28
HONOULIULI I	0.00
HONOULIULI II	6.65
MAKAKILO	0.15
WAIPAHU-EWA SUBTOTAL:	37.13

STATION	MGD
WAIANAE (8)	
MAKAHA I	0.51
MAKAHA II	0.00
MAKAHA III	0.09
MAKAHA V	0.20
MAKAHA VI	0.00
MAKAHA SHAFT	0.00
KAMAILE	0.03
WAIANAE I	0.31
WAIANAE II	0.86
WAIANAE III	0.78
WELLS SUBTOTAL:	2.77
WAI. C&C TUNNEL	1.40
WAI. PLANT. TUNNELS	0.13
GRAVITY SUBTOTAL:	1.53
WAIANAE SUBTOTAL:	4.30

NONPOTABLE

NONPOTABLE	MGD
KALAUAO SPRINGS	0.64
BARBERS POINT WELL	1.27
GLOVER TUNNEL NP	0.29
NONPOTABLE TOTAL:	2.20

RECYCLED WATER (MAY 2022)

RECYCLED WATER	MGD
HONOULIULI WRF R-1	6.67
HONOULIULI WRF RO	1.34
RECYCLED TOTAL:	8.00

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

PRODUCTION SUMMARIES

TOTAL WATER	MGD
PUMPAGE	135.18
GRAVITY	8.04
POTABLE TOTAL:	143.22
NONPOTABLE	2.20
RECYCLED WATER	8.00
TOTAL WATER:	153.42

CWRM PERMITTED USE AND BWS ASSESSED YIELDS FOR BWS POTABLE SOURCES				
WATER USE DISTRICTS		A	B	C
		PERMITTED USE/ BWS YLDS	JUN 2022	DIFF. A-B
1	HONOLULU	82.93	61.54	21.39
2	WINDWARD	25.02	14.06	10.96
3	NORTH SHORE	4.70	4.20	0.49
4	MILILANI	7.53	4.78	2.75
5	WAHIAWA	4.27	3.23	1.04
6	PEARL CITY-HALAWA	12.25	9.42	2.83
7	WAIPAHU-EWA	50.63	37.13	13.50
8	WAIANAЕ	4.34	2.77	1.57
TOTAL:		191.67	137.15	54.52

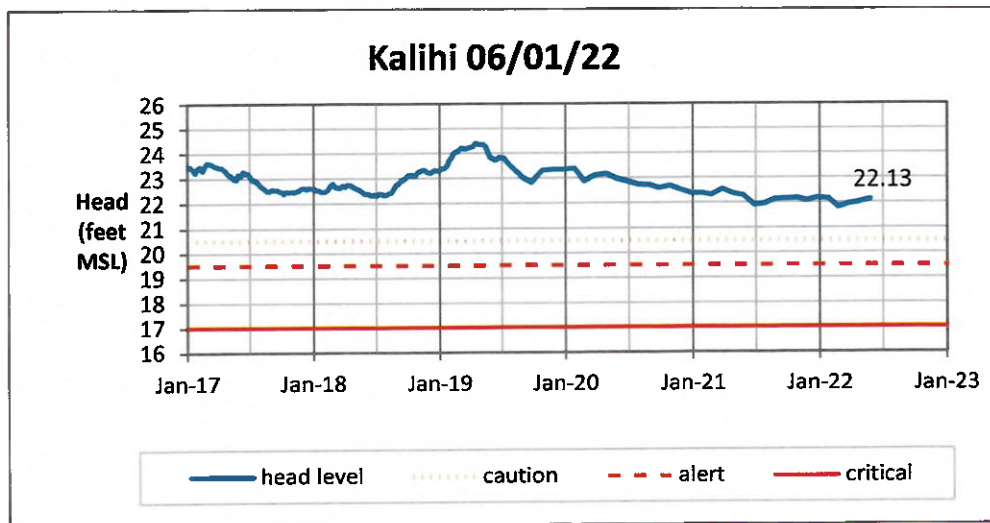
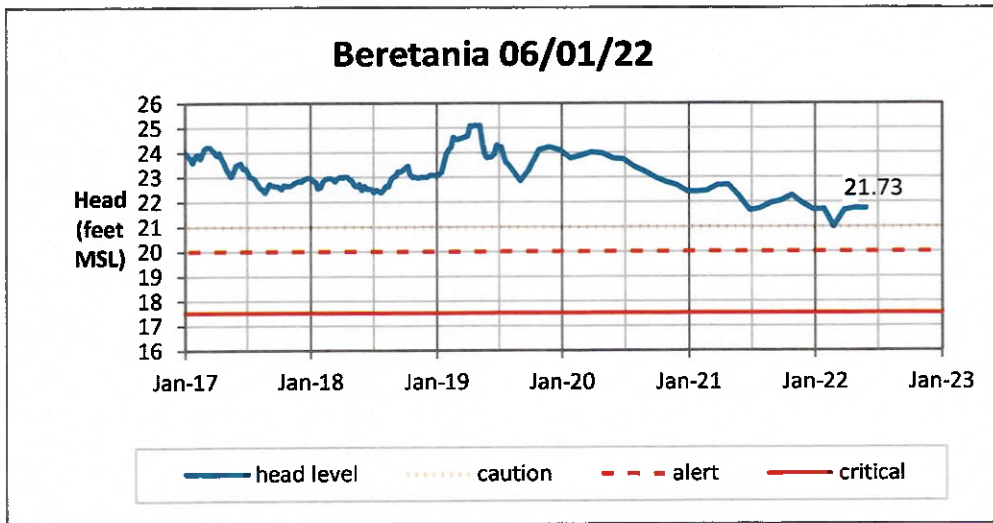
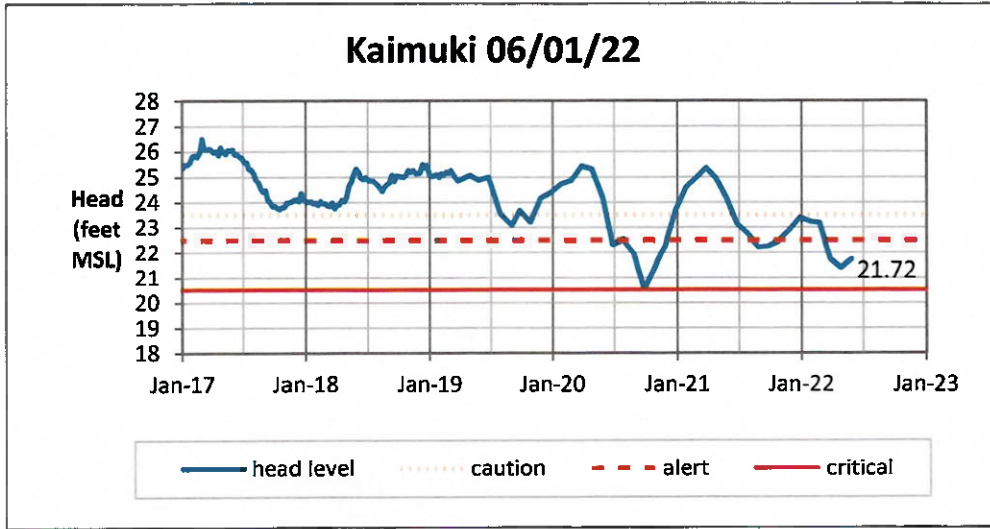
CWRM PERMITTED USE FOR BWS NONPOTABLE SOURCES				
WATER USE DISTRICTS		A	B	C
		PERMITTED USE	JUN 2022	DIFF. A-B
7	WAIPAHU-EWA (BARBERS POINT WELL)	1.00	1.27	-0.27
TOTAL:		1.00	1.27	-0.27

EFFECTIVE WATER DEMAND PER DISTRICT

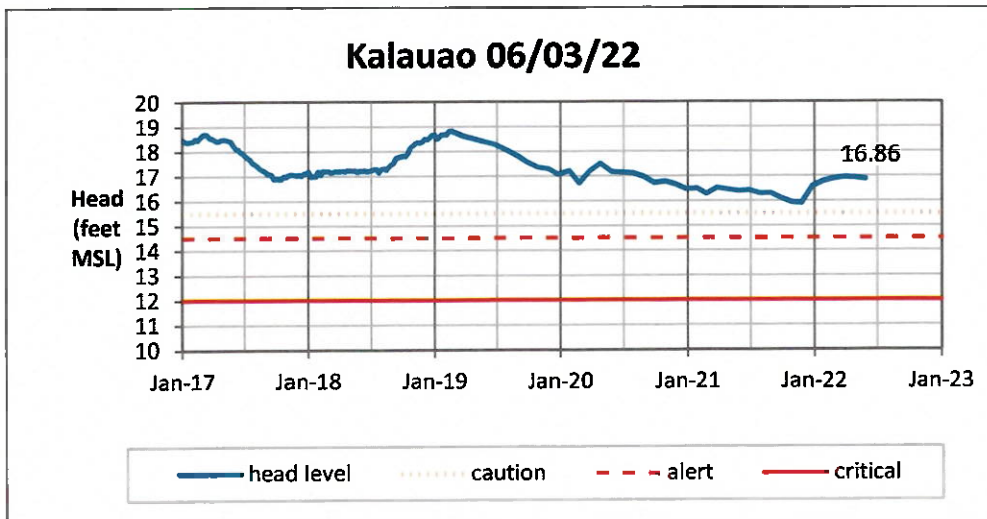
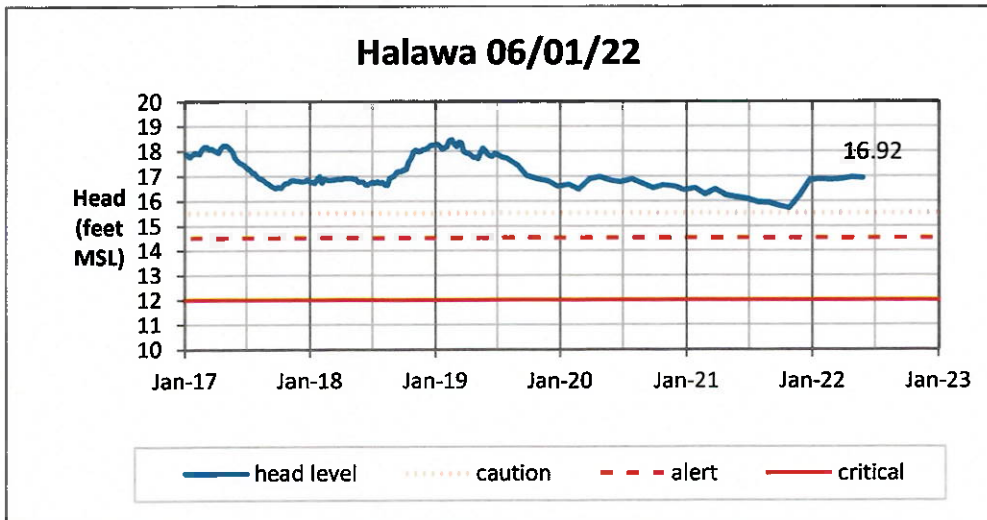
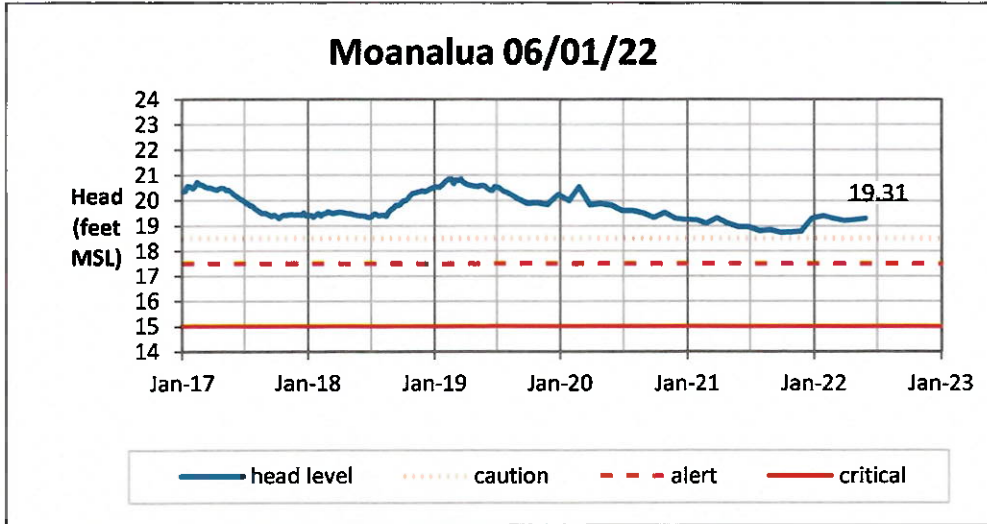
IMPORT/EXPORT BETWEEN WATER USE DISTRICTS			
FROM	TO		MGD
2	1	WINDWARD EXPORT	0.91
7	8	BARBERS PT LB	5.96

WATER USE DISTRICTS		SUBTOTAL	IMPORT	EXPORT	EFFECTIVE WATER DEMAND
1	HONOLULU	61.71	0.91	-	62.62
2	WINDWARD	18.44	-	0.91	17.53
3	NORTH SHORE	4.20	-	-	4.20
4	MILILANI	4.78	-	-	4.78
5	WAHIAWA	3.23	-	-	3.23
6	PEARL CITY-HALAWA	9.42	-	-	9.42
7	WAIPAHU-EWA	37.13	-	5.96	31.17
8	WAIANAЕ	4.30	5.96	-	10.26
TOTAL:		143.22	6.87	6.87	143.22

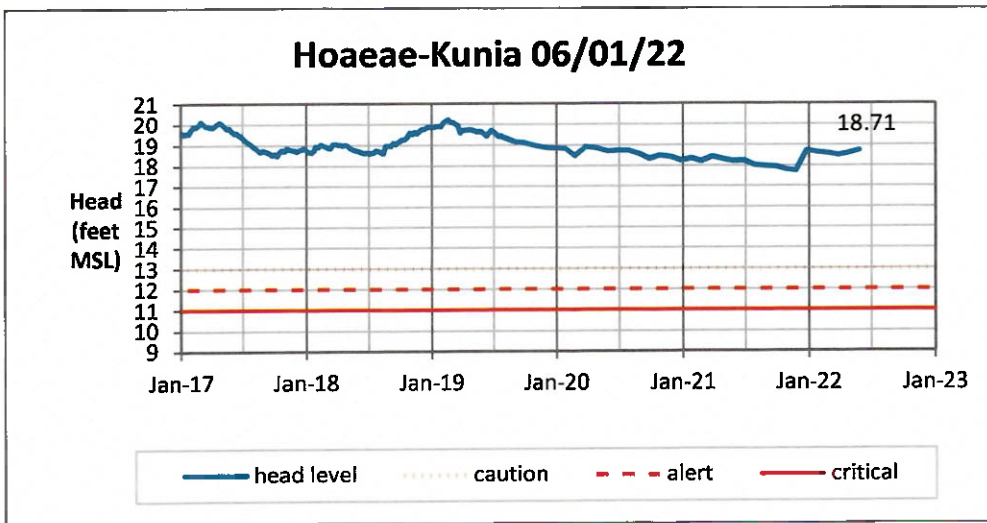
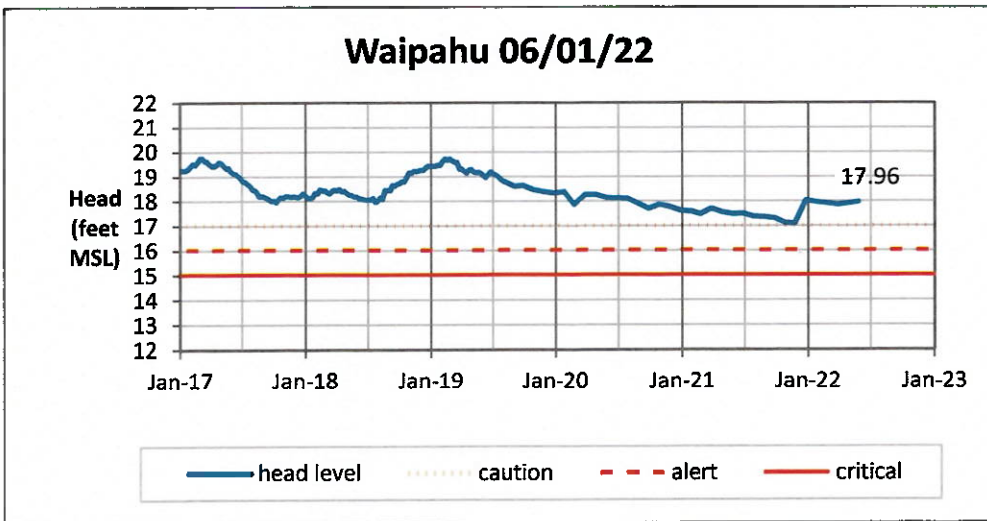
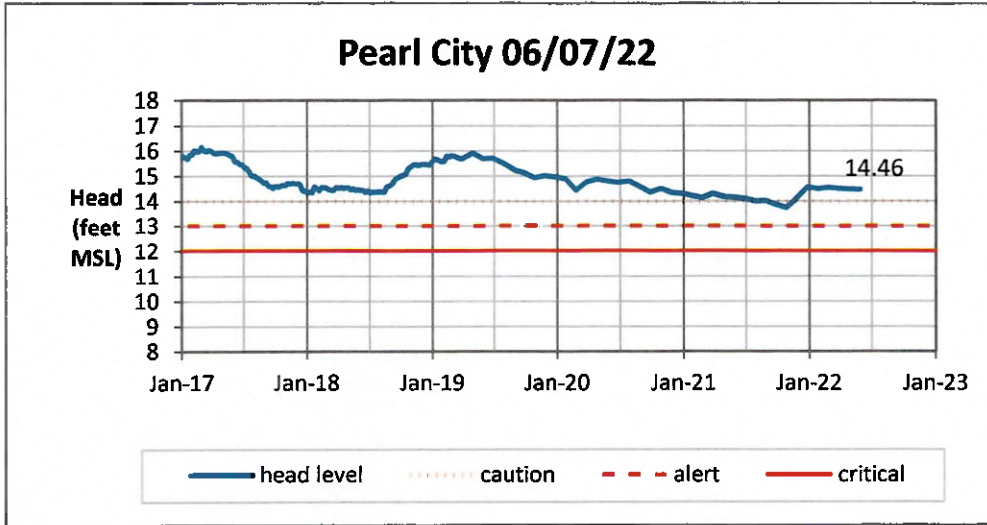
Head Report



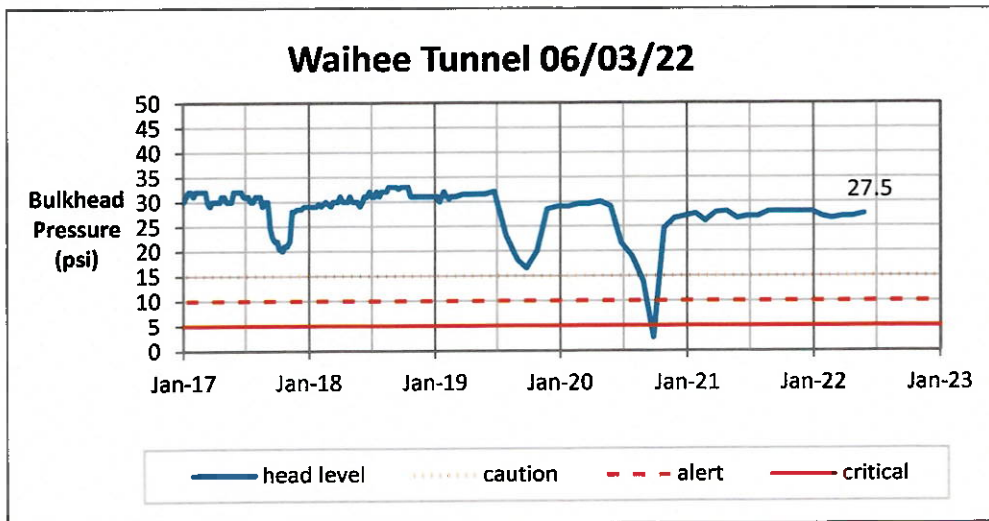
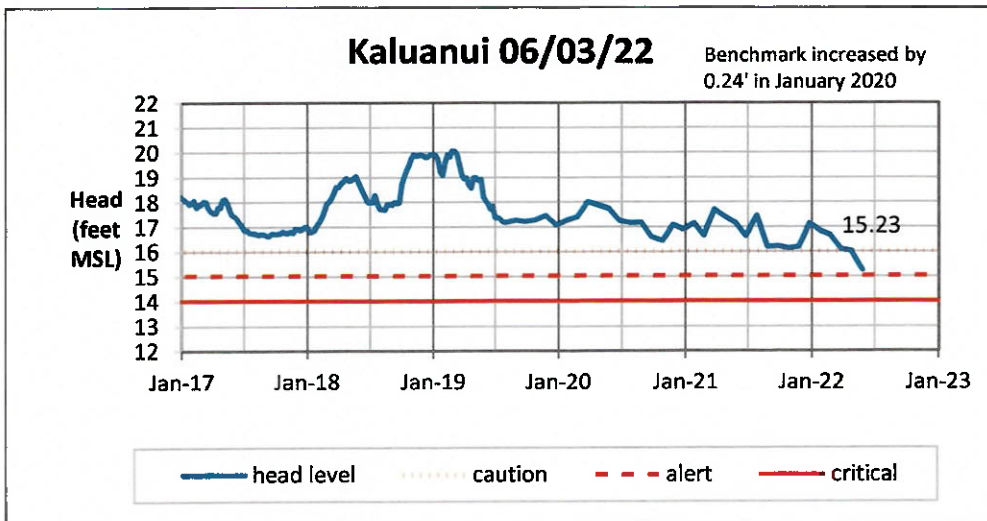
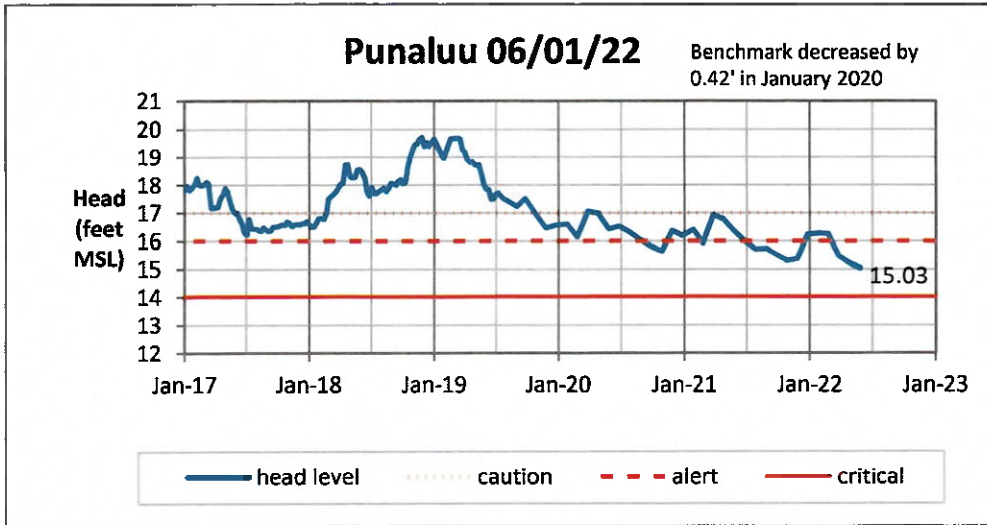
Head Report



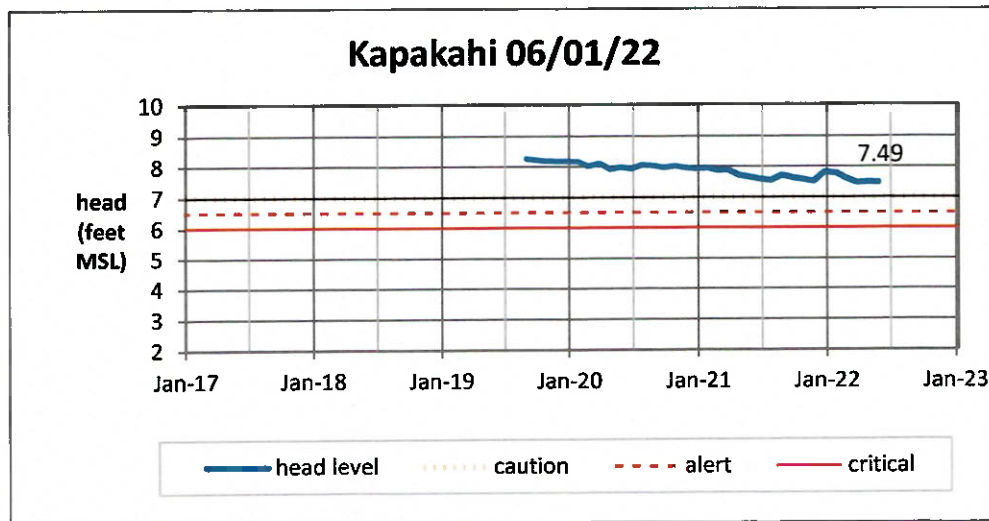
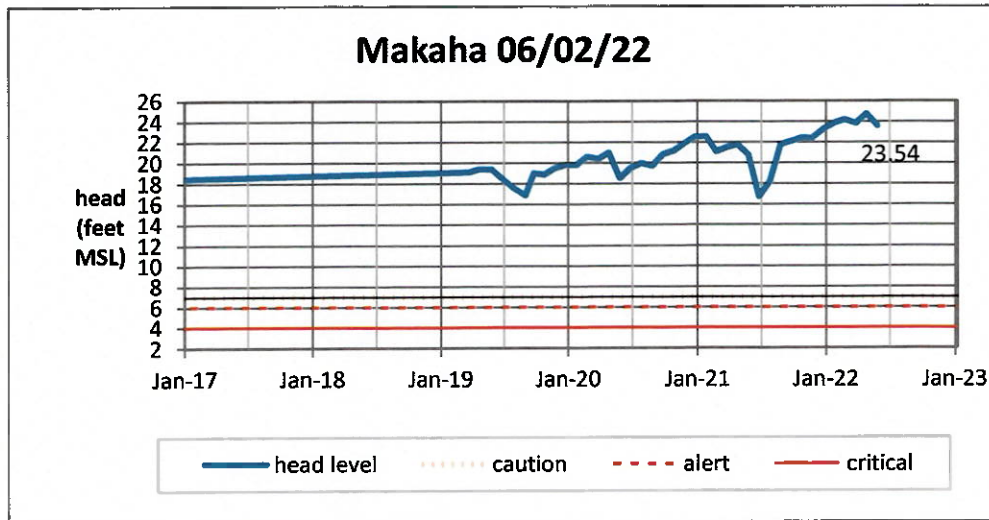
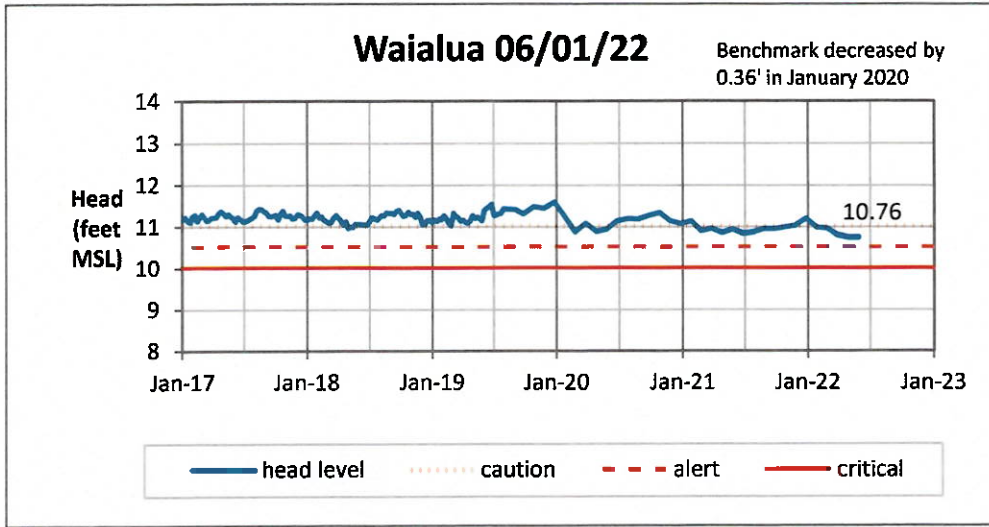
Head Report

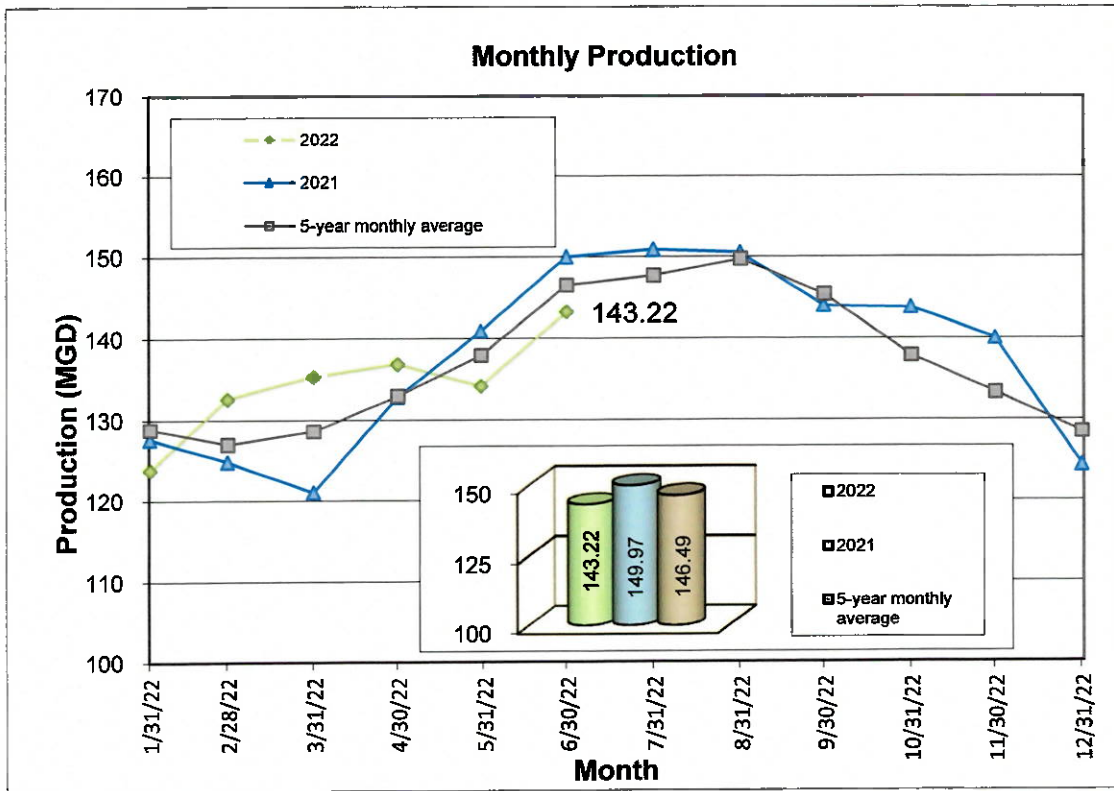
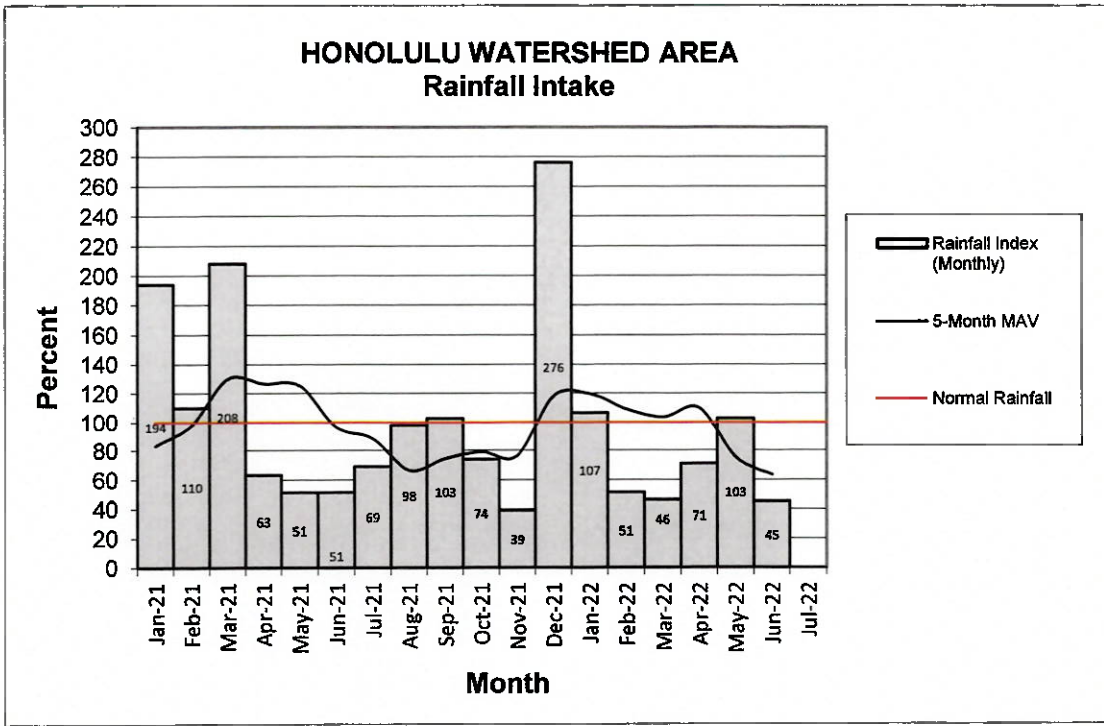


Head Report



Head Report





ITEM FOR INFORMATION NO. 6

"July 25, 2022

WATER MAIN
REPAIR
REPORT FOR
JUNE 2022

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

Chair and Members:

Subject: Water Main Repair Report for June 2022

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

Respectfully submitted,

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

Attachment"

The foregoing was for information only.

DISCUSSION: Wayne Tello, Water Service Superintendent, Field Operations Division, gave the report.

Vice Chair Sproat stated that the BWS has had a total of 370 water main breaks. She inquired if some of the water main breaks are due to how the BWS is pumping and moving water to make up for the loss of Halawa Shaft or if the BWS is experiencing a bad water main break year.

Manager Lau stated that the water main breaks on the Windward side, from Kahana to Punaluu, are caused by a chain reaction of events. It begins with a fluctuation in electric power, which may be triggered by fallen trees or damaged fire hydrants that causes a power shortage on an overhead power line, sending pressure surges through the pipeline, known as a water hammer, and finally causing a water main break.

Board Member Anthony asked how much longer before the road at Kahana would fully open.

Mr. Tello responded that there was no structural damage to the bridge and that the water main has been repaired, however, there are still some repairs that need to be made. The contractors will begin installing a wall under the stream bed, backfill the road, then clean up any debris which could take an additional two weeks.

Board Member Butay commented that Oahu was fortunate to have been able to dodge Hurricane Darby when the Kahana 30-inch water main break happened. The BWS was able to begin repair immediately with the

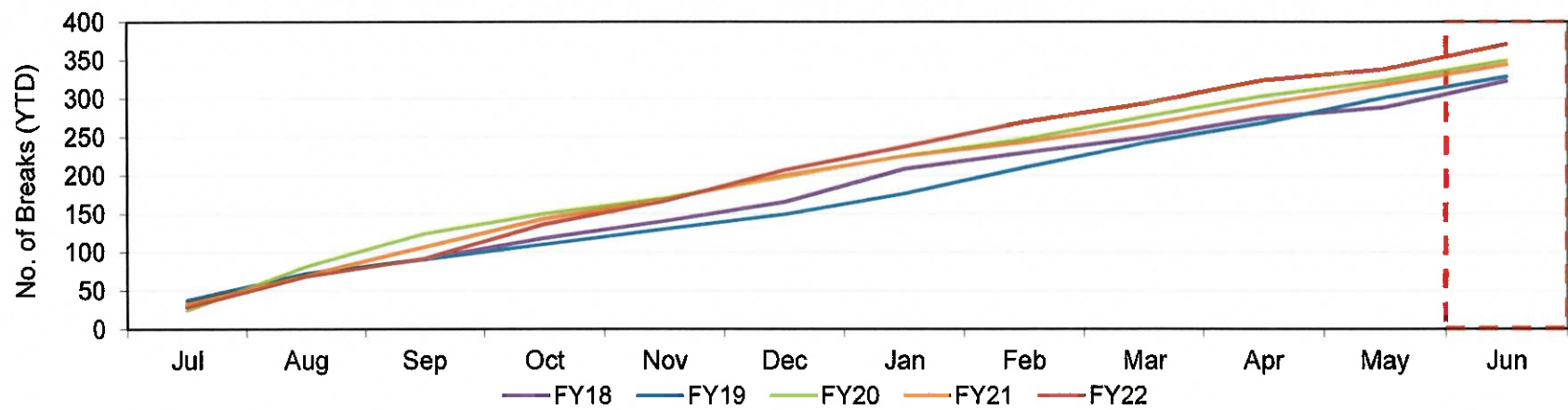
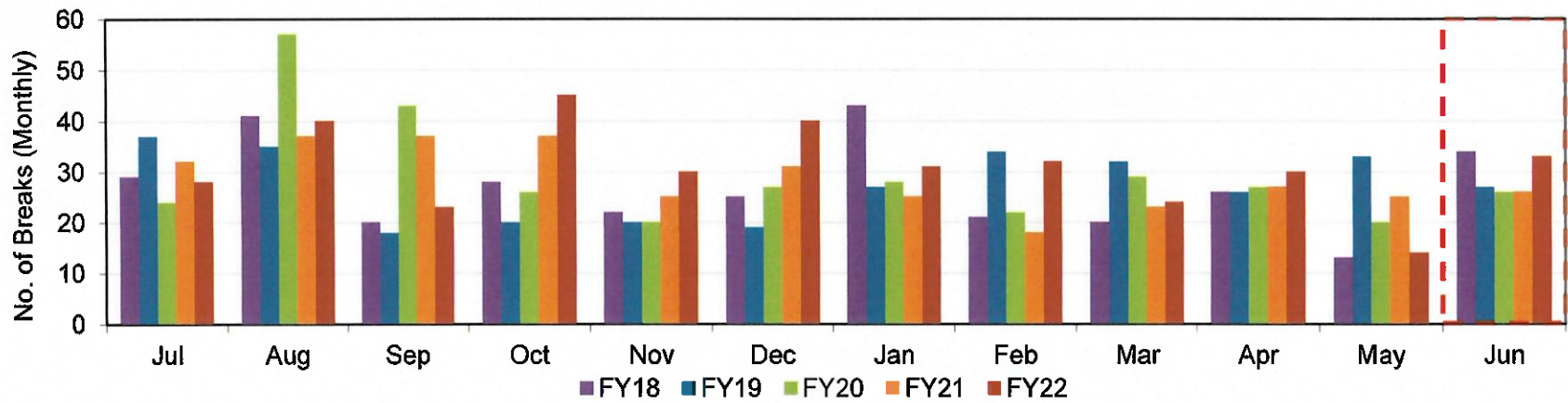
assistance of the Honolulu Police Department (HPD) and Department of Transportation Service (DTS) to mediate traffic and help residents.

Manager Lau extended his appreciation for the assistance of the State Department of Transportation (DOT). The DOT was able to inspect and ensure that there was no damage to the Kahana bridge.

WATER MAIN REPAIR REPORT
for June 2022

Monthly Main Breaks

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

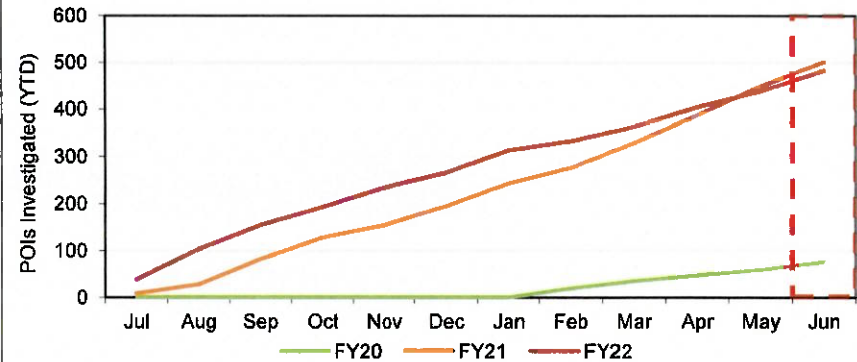
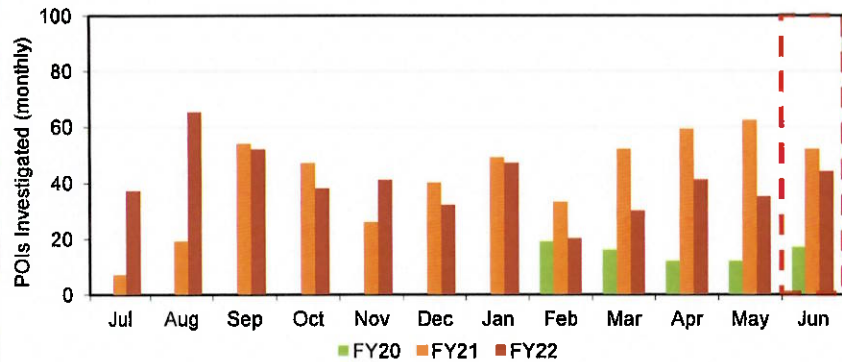


Date	Address	Size (In)	Pipe Type	Date	Address	Size (In)	Pipe Type
6/1/2022	98-143 Kanuku St, Aiea	8	PVC	6/29/2022	94-385 Ana Ln, Waipahu	12	CI
6/1/2022	1636 Lehia St, Honolulu	4	CI	6/29/2022	94-969 Awamoku Pl, Waipahu	6	CI
6/1/2022	426 Namahana St, Honolulu	8	CI	6/30/2022	46-274 Hoana St, Kaneohe	8	CI
6/1/2022	92-1021 Palailai Pl, Kapolei	4	CI				
6/2/2022	87-701 Paakea Rd, Waianae	8	CI				
6/3/2022	41-717 Waikupanaha St, Waimanalo,	8	CI				
6/7/2022	1617 Fern St, Honolulu	8	CI				
6/7/2022	2769 Kilihau St, Honolulu	42	CC				
6/7/2022	61-165 Kamehameha Hwy, Haleiwa	6	CI				
6/7/2022	5866 Haleola St, Honolulu	12	CI				
6/10/2022	3060 Kamehameha Hwy, Honolulu	24	CI				
6/10/2022	3400 Paty Dr, Honolulu	8	CI				
6/11/2022	4788 Aukai Ave, Honolulu	8	CI				
6/13/2022	51-55 Olohu Rd, Kaaawa	4	PVC				
6/14/2022	59-468 Hoalike Rd, Haleiwa	8	CI				
6/14/2022	1746 Kalaepaa Dr, Honolulu	6	CI				
6/21/2022	1092 Kaweloka St, Pearl City	8	CI				
6/23/2022	86-344 Kauaopuu St, Waianae	8	CI				
6/23/2022	2149 Kauhana St, Honolulu	8	CI				
6/24/2022	1015 Wilder Ave, Honolulu	4	CI				
6/25/2022	49-717 Kamehameha Hwy, Kaaawa	6	CI				
6/25/2022	51-382 Kamehameha Hwy, Kaaawa	6	CI				
6/25/2022	1127 Banyan St, Honolulu	6	CI				
6/26/2022	5072 Kilauea Ave, Honolulu	12	CI				
6/26/2022	46-631 Kamehameha Hwy, Kaaawa	6	CI				
6/26/2022	53-316 Kamehameha Hwy, Hauula	30	CC				
6/26/2022	49-717 Kamehameha Hwy, Kaaawa	6	CI				
6/27/2022	91-661 Ft Weaver Rd, Ewa Beach	16	PVC				
6/27/2022	3233 Pinaoula St, Honolulu	8	CI				
6/28/2022	823 Ihiihi Ave, Wahiawa	8	CI				

**LEAK DETECTION
for June 2022**

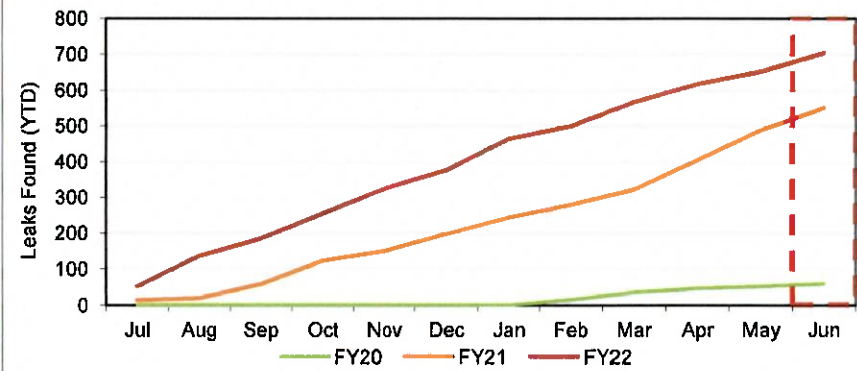
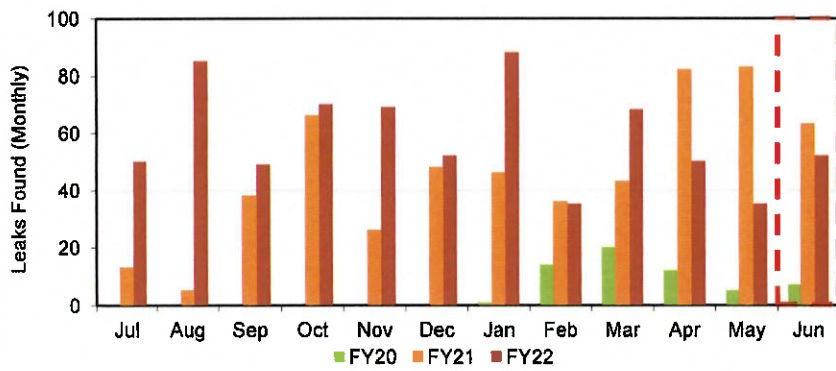
POIs Investigated

FY	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
2022	37	65	52	38	41	32	47	20	30	41	35	44	482
2021	7	19	54	47	26	40	49	33	52	59	62	52	500
2020							0	19	16	12	12	17	76



Leaks Found

FY	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
2022	50	85	49	70	69	52	88	35	68	50	35	52	703
2021	13	5	38	66	26	48	46	36	43	82	83	63	549
2020							1	14	20	12	5	7	59



MOTION TO RECESS INTO EXECUTIVE SESSION

There being no further business Chair Andaya at 4:14 PM called for a motion to adjourn the Open Session. Jade Butay so moved; seconded by Kapua Sproat and unanimously carried.

Upon unanimous approved motion, the Board recessed into Executive Session Pursuant to [HRS § 92-5 (a)(4)] at 4:15 PM to Consider Issues Pertaining to Matters Posted for Discussion at an Executive Session.


OPEN SESSION

The Board reconvened in Open Session at 5:38 PM.

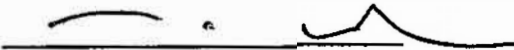
MOTION TO ADJOURN

There being no further business Chair Andaya at 5:39 PM called for a motion to adjourn the Regular Session. Max Sword so moved; seconded by Kapua Sproat and unanimously carried.

The minutes of the Regular Meeting held on July 25, 2022 are respectfully submitted,


 JOY CRUZ-ACHIU

APPROVED:


 BRYAN P. ANDAYA
 Chair of the Board
 AUG 22 2022
 Date

THE MINUTES OF THE REGULAR SESSION BOARD MEETING ON JULY 25, 2022 WERE APPROVED AT THE AUGUST 22, 2022 BOARD MEETING			
	AYE	NO	COMMENT
BRYAN P. ANDAYA	X		
KAPUA SPROAT			ABSENT
RAY C. SOON	X		
MAX J. SWORD			ABSENT
NA'ALEHU ANTHONY	X		
JADE T. BUTAY	X		
DAWN B. SZEWCZYK	X		