

**BOARD OF WATER SUPPLY
KA 'OIHANA WAI
CITY AND COUNTY OF HONOLULU**

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

RICK BLANGIARDI
MAYOR
MEIA

ERNEST Y. W. LAU, P.E.
MANAGER AND CHIEF ENGINEER
MANAKIA A ME KAHU WILIKI

ERWIN KAWATA
DEPUTY MANAGER
HOPE MANAKIA



NĀ'ĀLEHU ANTHONY, Chair
KAPUA SPROAT, Vice Chair
BRYAN P. ANDAYA
JONATHAN KANESHIRO
EDWIN H. SNIFFEN, Ex-Officio
GENE C. ALBANO, P.E., Ex-Officio

June 18, 2024

NOTICE

The Board of Water Supply, City and County of Honolulu, Regular Meeting will be held on Monday, June 24, 2024, at 2:00 p.m. in the Boardroom, Public Service Building, 630 South Beretania Street, Honolulu, HI 96843.

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

TESTIMONY

Testimony may be submitted as follows:

- **Written testimony** should include the submitter's address, email address, and phone number. Testimony should be received by Monday, June 24, 2024, at noon. Submit written testimony by:
 - Email to board@hbws.org
 - Online at boardofwatersupply.com/testimony
 - Mail to Board of Water Supply, 630 S. Beretania St., Honolulu, HI 96843
 - Fax to (808) 748-5079

- **Oral testimony** will be accepted remotely and in person during the meeting. Pre-registration is encouraged to facilitate as much remote and in-person testimony as reasonably possible during the time allotted. Testifiers should also consider submitting a written version of their oral testimony.

- To testify remotely by phone or video using the Zoom videoconferencing platform, please submit your request by:

- Email to board@hbws.org
- Online at boardofwatersupply.com/testimony

Zoom registration instructions, as well as participant guidelines, will be sent to the contact information provided. Once confirmed as registered, testifiers will receive an email containing the links and instructions to join the Zoom session. Submit your request to testify remotely by Friday, June 21, 2024, at noon.

- To testify in person at the Board of Water Supply, Public Service Building, 630 S. Beretania St., Honolulu, HI 96843, please pre-register by submitting your request by Monday, June 24, 2024:

- Email to board@hbws.org
- Online at boardofwatersupply.com/testimony

In-person testifiers should check in with building security and then with testimony staff located in the lobby. Testifiers will be escorted to and from the Board Room. On-site registration will be available for walk-in requests. **Please note that parking at the Board of Water Supply will be limited. Metered street parking may be available offsite or at the Frank F. Fasi Municipal Building Civic Center.**

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

MATERIALS AVAILABLE FOR INSPECTION

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

VIEWING THE MEETING

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

SPECIAL REQUESTS AND ACCOMMODATIONS

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

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

The agenda for June 24, 2024, Regular Meeting of the Board of Water Supply is as follows:

ITEMS REQUIRING BOARD ACTION

1. Approval of the Minutes of the Public Hearing and Regular Meeting Held on May 28, 2024
2. Adoption of Resolution No. 986, 2024, Acceptance of Gift to the Board of Water Supply from Hawaiian Earth Recycling, in Support of the 2024 Annual Halawa Xeriscape Garden Unthirsty Plant Sale
3. Adoption of Resolution No. 987, 2024, Acceptance of Gift to the Board of Water Supply from the US Water Alliance
4. Adoption of Resolution No. 988, 2024, Reimbursement of Capital Expenditures from the Proceeds of Indebtedness
5. Election of the Chair and Vice Chair of the Board of Water Supply Beginning July 1, 2024

ITEMS FOR INFORMATION

1. Update on the Board of Water Supply's Response to the Potential Impacts of the Red Hill Fuel Contamination
2. Water Service Revenue Bonds – Compliance with Rate Covenant
3. Status Update of Groundwater Levels at All Index Stations
4. Water Main Repair Report for May 2024

MINUTES

To watch the recording of this meeting, please click on the following link:
<https://vimeo.com/bwshonolulu/june-24-2024>. Closed captioning is available.

THE REGULAR MEETING OF THE BOARD OF WATER SUPPLY

June 24, 2024

At 2:00 PM on June 24, 2024, in the Public Service Building Board Room at 630 South Beretania Street, Honolulu, Hawai'i, Board Chair Nā'ālehu Anthony called to order the Regular Meeting.

Present: Nā'ālehu Anthony, Chair
Kapua Sproat, Vice Chair via Zoom
Bryan P. Andaya, Board Member via Zoom
Jonathan Kaneshiro, Board Member
Edwin H. Sniffen, Ex-Officio

Also Present: Ernest Lau, Manager and Chief Engineer
Erwin Kawata, Deputy Manager
Patrick Chun, Acting Assistant Program Administrator,
Capital Projects Division
Jewel Pharms, Assistant Program Administrator,
Customer Care Division
Jennifer Elflein, Program Administrator,
Customer Care Division via Vimeo
Kathleen Elliott-Pahinui, Information Officer,
Communications Office
Raelynn Nakabayashi, Executive Assistant I,
Executive Support Office
Wayne Tello, Acting Program Administrator,
Field Operations Division
Glenn Ah Yat, Acting Assistant Program Administrator,
Field Operations Division
Kaliko Lum Kee, Acting Waterworks Controller,
Finance Division
Michele Thomas, Executive Assistant I,
Human Resources Office via Zoom
Henderson Nuuhiwa, Program Administrator,
Information Technology Division
Michael Matsuo, Land Administrator, Land Division
Roland Fenstermacher,
Acting Program Administrator,
Water Quality Division
Barry Usagawa, Program Administrator,
Water Resources Division

Pekelo Martin, Water Pumping Plants
Superintendent,
Water System Operations Division
Kimberly Kuwaye, Manager Secretary
Joy Cruz-Achiu, Board Secretary
Sheri Mikami, Community Relations Specialist II,
Communications Office
Genna Kaneshiro, Student Aide II,
Communications Office
Kathy Mitchell, Administrative Services Officer
via Vimeo
Keoni Mattos, Information Specialist II,
Communications Office
Stella Bernardo, Information Specialist II,
Communications Office via Zoom
Michele Harman, Community Relations Specialist I,
Communications Office via Zoom
Wayne Maria, Information Specialist II,
Communications Office

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

Absent: Gene C. Albano, Ex-Officio

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

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

Mahalo nui no kēia 'ākoakoa 'ana o kākou no ka pono o ka lāhui, no ka pono o ka 'āina, a no ka pono o ka wai nō ho'i. Eia he 'ōlelo no'eau e kālele ana i ke ko'iko'i o ka wai.

Chair Anthony translated: Aloha from the rising to the setting sun. Thank you all for coming together today for the people, the land, and the water. Today's Hawaiian Proverb helps us remember the importance of fresh water and land.

'Ōlelo 1652: **Ka wai huahua'i o Kewalo.**

Chair Anthony translated 'ōlelo 1652: The bubbling water of Kewalo. Kewalo once had a large spring where many went for cool, refreshing water.

Chair Anthony welcomed everyone to the June 24, 2024, Regular Meeting of the Board of Water Supply (BWS). He stated that the Board of Water Supply is dedicated to providing safe, dependable, and affordable supply of water now and into the future.

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

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

message to all participants. To open the chat window, please click the text Bubble icon on the Zoom Toolbar.

Chair Anthony requested a roll call and asked those participating remotely to give the appropriate disclosures when responding.

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

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

Chair Anthony announced that he would be taking the agenda out of order.

REGULAR MEETING

“June 24, 2024

ELECTION OF
THE CHAIR AND
VICE CHAIR OF
THE BOARD OF
WATER SUPPLY
BEGINNING
JULY 1, 2024

Chair and Members
Board of Water Supply
City and County of Honolulu
Honolulu, Hawai'i 96843

Chair and Members:

Subject: Election of the Chair and Vice Chair of the Board of Water
Supply Beginning July 1, 2024

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, election of the Chair and Vice Chair of the Board for the
ensuing year commencing July 1, 2024, is on the agenda for this June 24,
2024 regular meeting.

Respectfully Submitted,

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

Attachment”

DISCUSSION: Ernest Lau, Manager and Chief Engineer of the Honolulu Board of Water
Supply, gave the report.

NOMINATION
AND MOTION Edwin Sniffen nominated Nā’ālehu Anthony to continue as Chair. The
motion was seconded by Jonathan Kaneshiro. Kapua Sproat amended
Mr. Sniffen’s motion to add Jonathan Kaneshiro to serve as Vice Chair.
Chair Anthony accepted the amendment. The amended motion was
seconded by Jonathan Kaneshiro.

Ms. Joy Cruz-Achui conducted a roll call vote:

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

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

NĀ'ĀLEHU ANTHONY WAS ELECTED AS CHAIR, AND JONATHAN KANESHIRO WAS ELECTED VICE CHAIR OF THE BOARD OF WATER SUPPLY BEGINNING JULY 1, 2024, TO JUNE 30, 2025, WAS ADOPTED ON JUNE 24, 2024

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

APPROVAL OF MINUTES

Approval of the Minutes of the Public Hearing and Regular Meeting Held on May 28, 2024.

MOTION TO APPROVE

Jonathan Kaneshiro and Kapua Sproat motioned and seconded, respectively, to approve the Minutes of the Regular Meeting Held on May 28, 2024

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

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

THE MINUTES OF THE PUBLIC HEARING AND REGULAR MEETING HELD ON MAY 28, 2024, WAS APPROVED AT THE JUNE 24, 2024, BOARD MEETING			
	AYE	NO	COMMENT
NĀ'ĀLEHU ANTHONY	X		
KAPUA SPROAT	X		
BRYAN P. ANDAYA	X		
JONATHAN KANESHIRO	X		
EDWIN H. SNIFFEN			ABSTAIN
GENE C. ALBANO			ABSENT

“June 24, 2024

ADOPTION OF
RESOLUTION NO.
986, 2024,
ACCEPTANCE OF
GIFT TO THE
BOARD OF WATER
SUPPLY FROM
HAWAIIAN
EARTH
RECYCLING, IN
SUPPORT OF
THE 2024
ANNUAL HALAWA
XERISCAPE
GARDEN
UNTHIRSTY
PLANT SALE

Chair and Members
Board of Water Supply
City and County of Honolulu
Honolulu, Hawai'i 96843

Chair and Members:

Subject: Adoption of Resolution No. 986, 2024, Acceptance of Gift to the Board of Water Supply from Hawaiian Earth Recycling, in Support of the 2024 Annual Halawa Xeriscape Garden Unthirsty Plant Sale

We recommend the adoption of the attached Resolution No. 986, 2024, that accepts the proposed gift to the Board of Water Supply (BWS), City and County of Honolulu, from Hawaiian Earth Recycling, in support of our 2024 Annual Halawa Xeriscape Garden Unthirsty Plant Sale. The donor's total value of this gift is \$1,963.35.

The BWS's Annual Halawa Xeriscape Garden Unthirsty Plant Sale is a well-established, successful public outreach program. It educates Oahu residents about the importance of outdoor water conservation and sustainable gardens. Studies show that more than 30 percent of residential water use occurs outdoors, so it makes sense for the BWS to promote water-saving methods in this area, which in turn can reduce the customer's combined water and wastewater bill.

This donation from Hawaiian Earth Recycling allows the BWS to give free compost to Plant Sale visitors and encourage them to incorporate into their own home gardens some of the techniques they learn at the event.

We deeply appreciate the continued support of this Board for this very valuable and worthwhile public outreach program. Plant Sale attendees are encouraged to use the information we provide at the event to become better stewards of our precious water resource.

Respectfully Submitted,

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

Attachment”

DISCUSSION: Sheri Mikami, Community Relations Specialist II, Communications Office, gave the report.

Chair Anthony inquired if the BWS still offers tours at the Halawa Xeriscape Garden.

Ms. Sheri Mikami stated that tours at the Halawa Xeriscape Garden have been suspended due to ongoing renovations and improvements to the

facility. However, will be reopening the garden for the Halawa Xeriscape Plant Sale on Saturday, August 3, 2024.

Chair Anthony encouraged everyone to attend and shared that there was a time in his life when he was part of the Halawa Xeriscape Garden team.

Manager Ernest Lau invited the Board Members to join him in packaging free compost to distribute to all attendees.

Chair Anthony announced that Board Member Jonathan Kaneshiro would abstain from voting since he is affiliated with the donation.

**MOTION
TO APPROVE**

Edwin Sniffen and Kapua Sproat motioned and seconded, respectively, to approve the Adoption of Resolution No. 986, 2024, Acceptance of Gift to the Board of Water Supply from Hawaiian Earth Recycling, in Support of the 2024 Annual Halawa Xeriscape Garden Unthirsty Plant Sale.

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

ADOPTION OF RESOLUTION NO. 986, 2024, ACCEPTANCE OF GIFT TO THE BOARD OF WATER SUPPLY FROM HAWAIIAN EARTH RECYCLING, IN SUPPORT OF THE 2024 ANNUAL HALAWA XERISCAPE GARDEN UNTHIRSTY PLANT SALE WAS ADOPTED ON JUNE 24, 2024			
	AYE	NO	COMMENT
NĀ'ĀLEHU ANTHONY	X		
KAPUA SPROAT	X		
BRYAN P. ANDAYA	X		
JONATHAN KANESHIRO			ABSTAIN
EDWIN H. SNIFFEN	X		
GENE C. ALBANO			ABSENT

BOARD OF WATER SUPPLY
CITY AND COUNTY OF HONOLULU

RESOLUTION NO. 986, 2024

ACCEPTANCE OF GIFT TO THE BOARD OF WATER SUPPLY
FROM HAWAIIAN EARTH RECYCLING
IN SUPPORT OF THE
2024 ANNUAL HALAWA XERISCAPE GARDEN UNTHIRSTY PLANT SALE

WHEREAS, the Board of Water Supply's (BWS) Annual Halawa Xeriscape Garden Unthirsty Plant Sale is an annual public outreach activity that educates O'ahu water users about incorporating drought tolerant plants, earth-friendly planting and maintenance techniques, and water conservation methods in their landscapes and gardens to promote efficient outdoor water use; and

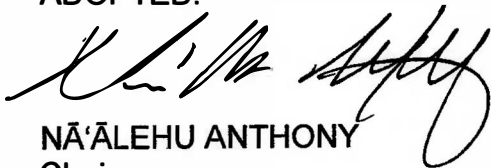
WHEREAS, the BWS may accept gifts to the Department as long as it does not provide special consideration, treatment, advantage, privilege, or exemption for or coerce a potential donor; and

WHEREAS, Hawaiian Earth Recycling is offering a gift of 25 cubic yards of compost, totaling \$1,963.35, for the BWS to distribute to the public at the 2024 Annual Halawa Xeriscape Garden Unthirsty Plant Sale; and

WHEREAS, the gift to the BWS is beneficial because using compost improves the soil's ability to retain water and reduces irrigation needs of landscapes or gardens that use it, further promoting outdoor water use efficiency; now, therefore

BE IT RESOLVED that the Board of Water Supply hereby accepts the gift valued at \$1,963.35, and directs the Manager and Chief Engineer, or his delegate, to accept and thank the donor for this gift.

ADOPTED:


NĀ'ĀLEHU ANTHONY
Chair

Honolulu, Hawai'i
June 24, 2024

ADOPTION OF RESOLUTION NO. 986, 2024,
ACCEPTANCE OF GIFT TO THE BOARD OF WATER
SUPPLY FROM HAWAIIAN EARTH RECYCLING, IN
SUPPORT OF THE 2024 ANNUAL HALAWA XERISCAPE
GARDEN UNTHIRSTY PLANT SALE WAS ADOPTED ON
JUNE 24, 2024

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



**2024 ANNUAL
Hālawā Xeriscape Garden's**

UNTHIRSTY PLANT SALE



FREE ADMISSION!



**Shop for beautiful, drought-resistant plants
that thrive with less water.**

Saturday, August 3, 9am to 3pm

99-1268 Iwaena Street

Street parking with free shuttle service.

Major credit card payments only. No cash or checks accepted.



**FRIENDS OF HĀLAWĀ
Xeriscape Garden**



**Board of
Water Supply**

www.boardofwatersupply.com

(808) 748-5041



“June 24, 2024

ADOPTION OF
RESOLUTION NO.
987, 2024,
ACCEPTANCE OF
GIFT TO THE
BOARD OF WATER
SUPPLY FROM
THE U.S. WATER
ALLIANCE

Chair and Members
Board of Water Supply
City and County of Honolulu
Honolulu, Hawai'i 96843

Chair and Members:

Subject: Adoption of Resolution No. 987, 2024, Acceptance of Gift
to the Board of Water Supply from the U.S. Water Alliance

We recommend the adoption of the attached Resolution No. 987, 2024, that accepts the proposed gift to the Board of Water Supply (BWS), City and County of Honolulu, from the U.S. Water Alliance for complimentary membership for Fiscal Year 2024 (October 1, 2023 to September 30, 2024). The total value is estimated to be \$11,750.

The U.S. Water Alliance is a national membership organization transforming the way the nation values and manages water – our most precious resource. The Alliance inspires and sustains a diverse movement to advance transformative solutions to pressing water challenges so communities can thrive.

Last year, the Manager and Chief Engineer, through the support of the Hawaii Community Foundation, was able to attend the U.S. Water Alliance's One Water Summit held in Tucson, Arizona, and found it enlightening and beneficial, especially from the sessions on affordability and equity.

Respectfully Submitted,

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

Attachment”

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

MOTION TO APPROVE Jonathan Kaneshiro and Edwin Sniffen motioned and seconded, respectively, to approve the Adoption of Resolution No. 987, 2024, Acceptance of Gift to the Board of Water Supply from the U.S. Water Alliance.

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

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

ADOPTION OF RESOLUTION NO. 987, 2024, ACCEPTANCE OF GIFT TO THE BOARD OF WATER SUPPLY FROM THE U.S. WATER ALLIANCE WAS ADOPTED ON JUNE 24, 2024			
	AYE	NO	COMMENT
NĀ'ĀLEHU ANTHONY	X		
KAPUA SPROAT	X		
BRYAN P. ANDAYA	X		
JONATHAN KANESHIRO	X		
EDWIN H. SNIFFEN	X		
GENE C. ALBANO			ABSENT

BOARD OF WATER SUPPLY
CITY AND COUNTY OF HONOLULU

RESOLUTION NO. 987, 2024

ACCEPTANCE OF GIFTS TO THE BOARD OF WATER SUPPLY
FROM THE US WATER ALLIANCE FOR MEMBERSHIP

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

WHEREAS, the US Water Alliance, an organization whose members are the foundation of the One Water Movement, is providing complementary membership for Fiscal Year 2024 (October 1, 2023 to September 30, 2024) to the BWS. The total value is \$11,750.; and

WHEREAS, the US Water Alliance is a national membership organization transforming the way the nation values and manages water, our most precious resource. The Alliance inspires and sustains a diverse movement to advance transformative solutions to pressing water challenges so communities can thrive.; and

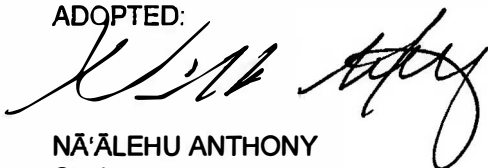
WHEREAS, US Water Alliance members receive a wide array of benefits, including:

- **Develop Diverse Relationships and Allies Across Water**
Find common ground with committed One Water leaders from across the country through peer exchange and a members-only One Water Council
- **Celebrate Success**
Gain national recognition for BWS's initiatives on their high-reach social channels and email list
- **Access Public Opinion Research and Communication Resources**
Through the annual Value of Water Index, which monitors public attitudes on water and provides members with effective messaging for internal and external communications
- **Accelerative One Water Implementation**
The Alliance can provide help on the most pressing issues within our community, such as water equity, affordability and financial resilience, workforce development, climate mitigation, and resilience
- **Stay Up to Date on Best Practices and Industry Insights**
The Alliance produces field-defining research, policy frameworks, and best practices compendiums that accelerate the spread of One Water across its national member network

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 coerce a potential donor and

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

ADOPTED:



NĀ'ĀLEHU ANTHONY
Chair

Honolulu, Hawai'i
June 24, 2024

ADOPTION OF RESOLUTION NO. 987, 2024, ACCEPTANCE OF GIFT TO THE BOARD OF WATER SUPPLY FROM THE US WATER ALLIANCE WAS ADOPTED ON JUNE 24, 2024			
	AYE	NO	COMMENT
NĀ'ĀLEHU ANTHONY	X		
KAPUA SPROAT	X		
BRYAN P. ANDAYA	X		
JONATHAN KANESHIRO	X		
EDWIN H. SNIFFEN	X		
GENE C. ALBANO			ABSENT

Ernest Lau, P.E.
Manager & Chief Engineer
Honolulu Board of Water Supply
Public Service Building
630 South Beretania Street
Honolulu, Hawaii 96843

Dear Ernest:

Water is the defining issue of our time. Policymakers, water sector leaders, businesses, and civil society increasingly recognize the need to invest heavily in water infrastructure and solutions to growing water challenges. We see water's increasing prominence in the budgets, policies, and priorities of leaders at local, regional, and national levels. With the collaborative, integrated, and holistic approaches characteristic of One Water, we must push ever closer to a sustainable and equitable water future. That is why we look forward to partnership with you. US Water Alliance members are the foundation of the One Water Movement.

The US Water Alliance is pleased to offer the Honolulu Board of Water Supply free membership for Fiscal Year 2024 (October 1, 2023 – September 30, 2024). The US Water Alliance is a national membership organization transforming the way the nation values and manages water—our most precious resource. The Alliance inspires and sustains a diverse movement to advance transformative solutions to pressing water challenges so communities can thrive.

The Alliance offers our more than 140 members community, ideas, resources, direct support, and connections to help their communities thrive and transform the way the nation views, values, and manages water. Through the One Water Council, webinars, skill-building institutes, pilot programs, and more, the Alliance supports members addressing complex challenges. Our diverse membership of water and wastewater utilities, private companies, environmental and community nonprofits, labor groups and others are uniquely positioned to generate new ideas, produce and communicate solution-centered frameworks, test the feasibility and impact of promising solutions, develop meaningful partnerships, and share lessons and insights.

Members receive a wide array of benefits:

- **Develop Diverse Relationships and Allies Across Water.** Find common ground with committed One Water leaders from across the country through peer exchange and a members-only One Water Council—a peer advising group focused on One Water strategies and innovation.
- **Celebrate Successes.** Gain national recognition for your organization's initiatives through amplification on our high-reach social channels and email list.
- **Access Public Opinion Research and Communications Resources.** Through the annual Value of Water Index, we monitor public attitudes on water and provide members with effective messaging to guide internal communications and external public will building.



- **Accelerate One Water Implementation.** Members can lean on the Alliance to help tackle the most pressing issues within their communities such as water equity, affordability and financial resilience, workforce development, watershed partnerships and planning, climate mitigation and resilience, utility consolidation, and more.
- **Stay Up to Date on Best Practices and Industry Insights.** The Alliance produces field-defining research, policy frameworks, and best practice compendiums that accelerate the spread of One Water across our national member network. We also offer premier skills-building sessions with experts in the field, open only to members and available free of charge.

The value of this membership is \$11,750 for the full Fiscal Year 2024.

We are confident that partnership between the US Water Alliance and Honolulu Board of Water Supply will benefit the Board and its staff through partnership on challenges such as water workforce development, water equity, and climate resilience. Through this partnership, we aim to provide tangible benefits to your constituents while highlighting the Board as a national One Water leader.

Thank you for considering this offer. We look forward to the opportunity to work together.

Yours in One Water,

Mami Hara
CEO
US Water Alliance

“June 24, 2024

ADOPTION OF
RESOLUTION NO.
988, 2024,
REIMBURSEMENT
OF CAPITAL
EXPENDITURES
FROM THE
PROCEEDS OF
INDEBTEDNESS

Chair and Members
Board of Water Supply
City and County of Honolulu
Honolulu, Hawai'i 96843

Chair and Members:

Subject: Adoption of Resolution No. 988, 2024, Reimbursement of
Capital Expenditures from the Proceeds of
Indebtedness

We recommend the adoption of Resolution No. 988, 2024, Declaring the Official Intent of the Board of Water Supply of the City and County of Honolulu to Reimburse Itself for Certain Capital Expenditures from the Proceeds of Indebtedness.

The Resolution establishes the time limit for reimbursement of capital expenditures at eighteen months. This brings the Board of Water Supply into compliance with Section 1.150 of the U. S. Treasury Regulations and does not bind the Board to make any expenditure, incur any indebtedness, or proceed with the Project.

The Resolution establishes a limit of \$310,291,000 and attaches the F.Y. 2025 Capital Improvement Program.

Respectfully Submitted,

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

Attachment”

DISCUSSION:

Kaliko Lum Kee, Acting Waterworks Controller, Finance Division, gave the report.

Board Member Jonathan Kaneshiro inquired if the Reimbursement of Capital Expenditure from the Proceeds of Indebtedness was done in last year.

Manager Lau responded the BWS does it every year.

Chair Anthony asked if the Reimbursement of Capital Expenditures from the Proceeds of Indebtedness allows the BWS to spend money from bonds.

Mr. Kaliko Lum Kee explained that Resolution No. 988, 2024, would allow the BWS to reimburse prior incurred expenditures up to the time that the

bond was issued if the BWS were to issue bonds after the fiscal year begins in July.

**MOTION
TO APPROVE**

Edwin Sniffen and Jonathan Kaneshiro motioned and seconded, respectively, to approve the Adoption of Resolution No. 988, 2024, Reimbursement of Capital Expenditures from the Proceeds of Indebtedness.

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

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

ADOPTION OF RESOLUTION NO. 988, 2024, REIMBURSEMENT OF CAPITAL EXPENDITURES FROM THE PROCEEDS OF INDEBTEDNESS WAS ADOPTED ON JUNE 24, 2024			
	AYE	NO	COMMENT
NĀ'ĀLEHU ANTHONY	X		
KAPUA SPROAT	X		
BRYAN P. ANDAYA	X		
JONATHAN KANESHIRO	X		
EDWIN H. SNIFFEN	X		
GENE C. ALBANO			ABSENT

BOARD OF WATER SUPPLY
CITY AND COUNTY OF HONOLULU

RESOLUTION NO. 988, 2024

**A RESOLUTION DECLARING THE OFFICIAL INTENT OF THE
BOARD OF WATER SUPPLY OF THE CITY AND COUNTY
OF HONOLULU TO REIMBURSE ITSELF FOR CERTAIN CAPITAL
EXPENDITURES FROM THE PROCEEDS OF INDEBTEDNESS**

WHEREAS, the Board intends to provide for the acquisition, construction, rehabilitation and/or equipping of certain capital facilities for the Board constituting water system facilities and other capital improvements for the use and benefit of the Board comprising improvements related to the FY 2025 Capital Improvement Program and other related facilities (the "Project"); and

WHEREAS, the Board expects to pay certain expenditures (the "Reimbursement Expenditures") in connection with the Project prior to the issuance of indebtedness for the purpose of financing costs associated with the Project on a long-term basis; and

WHEREAS, the Board reasonably expects that debt obligations for the Project in an amount not expected to exceed \$310,291,000 will be issued and that certain of the proceeds of such debt obligations will be used to reimburse the Reimbursement Expenditures; and


WHEREAS, proceeds of such debt obligations will be allocated to Reimbursement Expenditures no later than 18 months after the later of (i) the date the cost is paid, or (ii) the date the Project is placed in service or abandoned (but in no event more than three years after the cost is paid); and

WHEREAS, the Board may issue debt obligations for the Project in connection with obligations for other projects;

BE IT RESOLVED by the Board of Water Supply of the City and County of Honolulu, Hawaii, as follows:

1. It is hereby found and determined that it is the intent of the Board that bonds be authorized and issued by the Board to provide monies to carry out one or more purposes of the Board, including the acquisition and construction of improvements to the water system of the Board as specified in Schedule I attached hereto.
2. This declaration is made solely for purposes of establishing compliance with the requirements of Section 1.150 2 of the Treasury Regulations, and this declaration does not bind the Board to make any expenditure, incur any indebtedness, or proceed with the Project.
3. The Board hereby declares its official intent to use proceeds of the indebtedness to reimburse itself for the Reimbursement Expenditures after adoption of this resolution.
4. This resolution shall take effect upon the adoption thereof.

ADOPTED:



NĀ'ĀLEHU ANTHONY
Chair

Honolulu, Hawai'i
June 24, 2024

ADOPTION OF RESOLUTION NO. 988, 2024, REIMBURSEMENT OF CAPITAL EXPENDITURES FROM THE PROCEEDS OF INDEBTEDNESS WAS ADOPTED ON JUNE 24, 2024			
	AYE	NO	COMMENT
NĀ'ĀLEHU ANTHONY	X		
KAPUA SPROAT	X		
BRYAN P. ANDAYA	X		
JONATHAN KANESHIRO	X		
EDWIN H. SNIFFEN	X		
GENE C. ALBANO			ABSENT

ITEM FOR INFORMATION NO. 1

"June 24, 2024

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, Hawai'i 96843

Chair and Members:

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

Erwin Kawata, Deputy Manager, Office of the Manager and Chief Engineer, will give an Update on the Board of Water Supply's Response to the Potential Impacts of the Red Hill Fuel Contamination.

Respectfully Submitted,

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

Attachment"

The foregoing was for information only.

DISCUSSION:

Erwin Kawata, Deputy Manager, Office of the Manager and Chief Engineer, gave the report.

Vice Chair Sproat asked what happens next, especially since the Department of Health (DOH) agrees with the BWS on various issues.

Deputy Manager Kawata shared that the DOH requires the Navy to perform extended testing and conduct forensic testing with the United States (U.S.) Environmental Protection Agency (EPA) 8015 method. The BWS is currently having the Navy's report independently peer-reviewed and hopes to share the results in a report to the Board next month.

Vice Chair Sproat inquired if the BWS could access the appendices, which could provide additional data and information.

Deputy Manager Kawata responded the BWS received that information after sending a letter to the Secretary of Defense requesting additional data cited in the Navy's report. The BWS found the laboratory reports on the Navy's Safe Water website, which the peer reviewers are reviewing. The BWS is also reviewing a copy of the Navy's water system model, which showed that the Red Hill Shaft serves only certain parts of the Joint Base Pearl Harbor water system. He shared that data in the Navy's water system model report is redacted, which poses challenges to connecting the data with the model conclusions.

Manager Lau stated that the Red Hill Shaft water system model report is difficult to analyze because data and information have been redacted. Included in the report is the daily water demand graph, which should provide data on water demand variation over time. The graph pictures the horizontal axis indicating time value and a line graph; however, the values on the vertical axis are missing, making it difficult to agree with the model conclusions if the BWS is unable to see the data.

Board Member Bryan Andaya shared that at a conference he attended a few weeks ago, there was a lot of discussion about gases and granular activated carbons (GAC). He asked if the Navy tried using GAC and whether the BWS is exploring this type of water treatment option.

Deputy Manager Kawata replied that the Navy plans to install an activated carbon facility to remove residual petroleum contamination from the Red Hill Shaft. The BWS is also conducting a treatment study to look into the different technologies, individually and in combination, to see what would be effective in removing large amounts of petroleum contamination from water. When the analysis is completed, the BWS will share its findings.

Chair Anthony commented that the Navy's plan to build the GAC facility at Red Hill will cost nearly half a billion dollars – an expensive and significant effort. A persistent challenge with treatment systems is discussing the need for a GAC system if the water is not contaminated compared to when there is known contamination.

Chair Anthony expressed interest in the low-level contaminants the DOH found in the water at Pearl Harbor as a microcosm for what could potentially happen if such contamination affected the BWS water system. Does Total Petroleum Hydrocarbons (TPH) persist? How do you flush the water system to get rid of it? He referred to the Newfield Report Test Results slide of the PowerPoint. Chair Anthony inquired about the low-level TPH detected and the report stating the findings, which are not TPH but some other organic compound.

NEWFIELD REPORT TEST RESULTS

J: Flagged as estimates when results near and below reporting limit
 B: Flagged due to contamination in laboratory method blank

Sample Location	Sample Date	Field ID	CL2 (mg/L)	Reporting Limit	TPH Result	Units	Lab qualifier
5792A Erne Avenue	2/12/2024	021224-002-01	0.79	32	72	ppb	
1824 Madrona Place	2/12/2024	021224-002-02	0.71	32	27	ppb	JB
6363 Papaya Lane	2/12/2024	021224-002-03	0.55	32	42	ppb	B
6653 Plumeria Loop	2/12/2024	021224-002-04	0.63	32	24	ppb	JB
419 Valley View Loop	2/12/2024	021224-002-05	0.66	32	15	ppb	JB
269 Etcell Court	2/12/2024	021224-002-06	0.21	32	19	ppb	JB
319 Lexington Blvd, Bldg 570, Ford Island CDC	2/12/2024	21224-009-01	0.59	32	57	ppb	B
4655 Catlin Dr, Bldg 4655, Catlin School Age Center	2/12/2024	021224-009-02	0.61	32	54	ppb	B
15 Julian Ave	2/12/2024	021224-009-03	0.69	32	55	ppb	B
546 Ohana Nui Circle	2/12/2024	021224-009-04	0.76	32	61	ppb	B
Waiawa Shaft	2/13/2024	021324-009-01	0.02	32	6	ppb	J
Navy Area Halawa Shaft	2/13/2024	021324-009-02	NA	32	87	ppb	
Red Hill Shaft- Adit 3	2/13/2024	021324-009-03	0.04	32	19	ppb	J
417 Valley View Loop	2/13/2024	021324-009-04	0.58	32	61	ppb	
731 Ohana Nui Circle	2/20/2024	022024-009-01	0.67	32	2	ppb	J

Deputy Manager Kawata explained that the DOH used the EPA's standard Method 8015 test to do the test and reported the results shown in the slide above. He explained that the highlighted results were those that measured more than the reporting limit of 32 and were not affected by any contamination in the method blank. The DOH had additional forensic analysis performed, and it was determined that a non-petroleum contaminant was being detected in all the samples. Further testing is being done to identify the type of contaminant.

Chair Anthony commented that when the results are graphed, they are outside the graph range of where one would normally see them.

Deputy Manager Kawata agreed with Chair Anthony's comment. The results should not have been reported as TPH with these numbers and should have been reported as non-detect if the forensic analysis had found the contaminant not to be a petroleum hydrocarbon.

Chair Anthony inquired about when the BWS performs tests on its water system and whether it sees the same results.

Deputy Manager Kawata responded that the BWS does not see the same test results as the NewField Report Test Results. He shared that when the BWS conducts the same analysis, the BWS compares it to the certified TPH standard. He stated he does not know what standard the Newfield used and, therefore, cannot comment further. The BWS uses a certified diesel range or TPH diesel standard and then creates a calibration curve based on that standard and the lowest concentration that can be measured with confidence. The lowest concentration on that calibration curve represents the BWS's minimum reporting limit.

Chair Anthony commented that everyone involved, the community, the regulators, and the purveyors, are working to identify and agree on how to test to the lowest results possible.

Deputy Manager Kawata explained that Method 8015 is meant to test for high contamination levels well above 200 parts per billion (ppb). He shared that the same method could be used to calibrate it against a lower value or standard to establish a lower detection limit; however, when doing so, a method of detection limit (MDL) study is also required. The Code of Federal Regulations requires conducting an MDL study to help determine the lowest level that can be measured with 99% confidence. Deputy Manager Kawata shared that the BWS conducts an MDL study when the BWS contract laboratory or sub-contract laboratory takes a non-standard method and applies it to drinking water samples or uses it at a lower level. The contract laboratory must pass the MDL study, and all quality controls must meet the method standard before the testing is applied to real-world water samples.

Chair Anthony commented that it is important to be transparent so the community can trust that their drinking water is safe and that there is public trust.

There was remote testimony:

Meredith Wilson	<i>Submitted a written testimony commenting on the Navy's tracer study and hydraulic model, along with a couple of questions.</i>
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1. *Has the BWS received a response from the SecDef's office or from the Navy itself about the request for more information on the studies?*

Ms. Meredith Wilson stated her question was answered during the presentation.

2. *Does the BWS think this reduction in the surrogate is appropriate? How should this be taken into account for the interpreting of new Extended Drinking Water Monitoring Plan results due to the expected decrease in low-level TPH detect?*

Deputy Manager Kawata responded that the BWS looked at the Navy's data. The laboratory that the Navy used added 2000 micrograms per liter (mg/L) of surrogate. The BWS adds 20 micrograms per liter of the same surrogate, which relates to the levels that the BWS measures.

Ms. Wilson asked if the amount of surrogates added to all the testing for the past two years by the Navy's laboratory was inappropriate.

Deputy Manager Kawata replied that from the BWS's standpoint, 2000 micrograms per liter is inappropriate.

Ms. Wilson inquired, based on the Navy's rationale, if that is the reason for their TPH detections.

Deputy Manager Kawata responded that that was not the entire reason; there were other issues. For example, the Navy did not dechlorinate the samples collected. He explained that Method 8015 requires dechlorinating if collecting and analyzing chlorinated water samples. The Navy's water system is chlorinated; therefore, the laboratory should have been notified, and the sample bottles should have had a dechlorinating agent.

Ms. Wilson commented that it is a shame that the person who signed on the long-term monitoring (LTM) did not check that all requirements were met.

Jamie Simic	<i>Mentioned and commented on the 2005 - January 2016 COPC Recommendation Long Term Monitoring of 10 wells surrounding the Red Hill Bulk Fuel Storage, and a response letter dated June 2024 from the Navy regarding AFFF found.</i>
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Manager Lau asked Ms. Jamie Simic if the letter she mentioned was available on the Navy's Safe Water website.

Ms. Simic replied that the letter was shared amongst advocates and would forward a copy to Manager Lau.

Ms. Simic inquired about how to move forward now that the Navy has admitted that they cannot test further due to degrading lines and pipes.

Manager Lau responded that the community must continue to demand transparency from the Navy. As mentioned earlier, there is no need to redact information regarding the Red Hill Bulk Fuel Storage facility since it is near closure. This is a community-wide concern; therefore, the Navy and the regulators need to continue to engage and inform the community.

Ms. Simic asked if the BWS knew the 77,000 gallons of fuel and water mixture was removed via suction and another 140 gallons skimmed via skimming pads in December 2021.

Manager Lau replied that the BWS had heard that those amounts of fuel had been recovered by divers when they were sent into the Red Hill Shaft.

Ms. Simic asked if anyone knew where that fuel went.

Manager Lau replied that the BWS does not know exactly where it went in the environment; however, the remaining fuel may have traveled into the unsaturated rock, into the ground, or moving with the groundwater.

Ms. Simic inquired if that is the reason that the Navy customers are still experiencing issues since the contamination could be moving with the groundwater.

Manager Lau responded that the Navy is pumping water from their Waiawa Shaft to supply their customers with drinking water and no longer pumping water from the Red Hill Shaft and the Aiea/Halawa Shaft. Further investigation must be done on the Navy's water system to

determine what may have been absorbed and what still resides in the water system or the plumbing.

Ms. Simic asked if the multiple mixtures of leaks over the years into the water system, the environment, the groundwater, and travel could have been absorbed into the homes' plumbing, causing the different sicknesses in the community.

Manager Lau replied that the Navy's Red Hill Shaft has had various leaks and has detected various fuel components in their drinking water.

Ms. Simic stated she was referring to leaks in 2010 and 2014.

Manager Lau shared that the BWS has raised questions over the last ten years. Since then, the BWS has observed that over the years, the test results from the Red Hill Shaft indicated higher concentrations of petroleum products and chemicals and elevated to higher concentrations months prior to the November 2021 leak.

Ms. Simic shared that she got very sick during 2021.

Chair Anthony commented that sharing information, data, and details surrounding the different contaminants and the amount of contamination affecting the community, the environment, and the aquifer has been very slow and excruciating. It is imperative that everyone is aware so that information can be shared.

Manager Lau added that the ongoing water testing in the Navy's water system also needs more objectivity to ensure the integrity of those test results and how they were taken.

Chair Anthony agreed with Manager Lau.

Meredith Wilson
BWS Board Meeting 6/24/2024

Aloha Board,

I was happy to read the Honolulu Board of Water Supply's letter to the US Secretary of Defense requesting more information regarding the Navy's contracted tracer study & hydraulic model that was used to, in mine & many other's perspective, erroneously declare that not all Zones in the JBPHH system received jet-fuel contaminated water back in 2021.

This study & model deserves valid scrutiny, especially drawing that kind of conclusion when real humans & not simulations say otherwise.

It is once again laughable that the hyperlink to the apparent animation for their tracer study expired only 11 days after the announcement of the tech memo. This is the kind of "appearance" of information we continue to witness from the Navy.

1st Question:

Has BWS received a response from the SecDef's office or from the Navy itself about the request for more information on these studies?

Next, there is a Footnote in the SWARM Team's report that states Navy's Long Term Monitoring used 2,000 micrograms per liter of the surrogate in question, o-Terphenyl, for their sampling but as of Jan. 18th of this year, they are now using 100 ug/L instead.

Does BWS think this reduction in the surrogate is appropriate? How should this be taken into account for the interpreting of new Extended Drinking Water Monitoring Plan results due to the expected decrease in low-level TPH detects?

And finally, it's more of a comment for public awareness than a question, but the HDOH wrote a letter to the Navy Closure Task Force dated May 17th and stated that the Navy, as recently as last month, was still questioning their authority for requiring an Air Quality Monitoring Program, and moreover, the mere necessity of one for the venting of the Red Hill tanks.

Just like their dissatisfaction of the federally appointed & agreed upon Community Representation Initiative, the Navy continues to deconstruct and not build the trust they so desire.

Thank you all for continuing to be a municipal, government-related, agency on which I can freely approach and rely. I wholeheartedly wish that the federal government-related entity that was supposed to protect me, my family, and really all of us, could become more the same.

Mahalo & Ola I Ka Wai.



JUNE 2024 RED HILL UPDATES

June 24, 2024

boardofwatersupply.com



TODAY'S UPDATE

- Review DOH findings of independent forensic investigation of Navy water system technical memo.
- DOH report released on May 22, 2024.
 - The investigation conducted in response to uptrend of low-level TPH detections in Navy water system samples by the Navy in late 2023.
 - DOH employed NewFields Environmental Forensics Practice, LLC, a petroleum forensic consultant, to conduct the analysis.
 - DOH also collected water samples from 12 homes at JBPHH and AMR, and from Navy's Waiawa Shaft, Navy Aiea-Halawa Shaft and Red Hill Shaft in February 2024.



DOH STUDY FINDINGS

- A generalized conclusion that there is no residual fuel in the Navy Water System for the entire base cannot be made.
- DOH disagrees with the Navy's conclusion that certain drinking water zones could not have been contaminated by the Red Hill Shaft during the November 2021 emergency.
- The exact chemistry that led to the high rate of TPH detections during LTM is not known. The Navy attributed the low-level TPH detections to a chemical surrogate added as part of the TPH screening test, interacting with chlorine. It is unclear if the surrogate was the sole precursor responsible for "false" TPH detections, as hypothesized by the Navy.
- All surrogates used in the tests were recovered within laboratory limits, meaning that the surrogates introduced in testing were detected at similar levels after the testing was complete. If the surrogates interacting with chlorine was the sole cause of the detections, it would be recovered at lower rates following the completion of the testing process.



DOH STUDY FINDINGS – CONT.

- EPA Method 8015D, is a conventional laboratory technique for testing water samples for petroleum hydrocarbons, it was not designed to identify specific chemicals, such as JP-5 jet fuel, in drinking water.
- The twelve household drinking water samples* reported TPH concentrations that ranged from 2.0 to 72 ug/L and the three drinking water shaft samples* reported TPH concentrations that ranged from 6.0 to 87 ug/L. (*Collected in February 2024)
- The TPH results were screened by supplemental methods to further evaluate the samples for the presence of petroleum hydrocarbons and other chemicals.



DOH STUDY FINDINGS – CONT.

- The supplemental analyses confirmed that no petroleum or petroleum distillates were present in household drinking water or shaft samples above the laboratory detection limit.
- The investigation detected non-targeted analytes (NTAs) that are not fuel related at low levels in the samples from the homes, but not from the source water shafts.
- Naturally occurring biogenic compounds like organic acids were found in the source water shaft samples.
- Further testing underway to characterize the chemical composition of these compounds.



NEWFIELD REPORT TEST RESULTS

"J" flagged as estimates when results near and below reporting limits
 "B" flagged due to contamination in laboratory method blank

Sample Location	Sample Date	Field ID	CL2 (mg/L)	Reporting Limit	TPH Result	Units	Lab qualifier
5792A Erne Avenue	2/12/2024	021224-002-01	0.79	32	72	ppb	
1824 Madrona Place	2/12/2024	021224-002-02	0.71	32	27	ppb	JB
6363 Papaya Lane	2/12/2024	021224-002-03	0.55	32	42	ppb	B
6653 Plumeria Loop	2/12/2024	021224-002-04	0.63	32	24	ppb	JB
419 Valley View Loop	2/12/2024	021224-002-05	0.66	32	15	ppb	JB
269 Etccl Court	2/12/2024	021224-002-06	0.21	32	19	ppb	JB
319 Lexington Blvd, Bldg 570, Ford Island CDC	2/12/2024	21224-009-01	0.59	32	57	ppb	B
4655 Catlin Dr, Bldg 4655, Catlin School Age Center	2/12/2024	021224-009-02	0.61	32	54	ppb	B
15 Julian Ave	2/12/2024	021224-009-03	0.69	32	55	ppb	B
546 Ohana Nui Circle	2/12/2024	021224-009-04	0.76	32	61	ppb	B
Waiawa Shaft	2/13/2024	021324-009-01	0.02	32	6	ppb	J
Navy Aiea Halawa Shaft	2/13/2024	021324-009-02	NA	32	87	ppb	
Red Hill Shaft - Adit 3	2/13/2024	021324-009-03	0.04	32	19	ppb	J
417 Valley View Loop	2/13/2024	021324-009-04	0.58	32	61	ppb	
731 Ohana Nui Circle	2/20/2024	022024-009-01	0.67	32	2	ppb	J

BWS REVIEW OF DOH REPORT

- BWS supports these DOH findings:
 - A generalized conclusion that there is no residual fuel in the Navy Water System for the entire base cannot be made.
 - The exact chemistry that led to the high rate of TPH detections during LTM is not known. The Navy attributed the low-level TPH detections to a chemical surrogate interacting with chlorine. If the surrogates interacting with chlorine was the sole cause of the detections, it would be recovered at lower rates following the completion of the testing process which the data does not show.
 - DOH disagrees with the Navy's conclusion that certain drinking water zones could not have been contaminated by the Red Hill Shaft during the November 2021 emergency.



BWS REVIEW OF DOH REPORT – CONT.

- Other comments:
 - JBPHH system samples collected in 2024 are likely not the same as those samples collected from the same homes by the Navy in 2023.
 - Report Appendices A through D not included with the NewFields report. BWS comments are limited to the NewFields report and DOH news release documents. BWS has requested Appendices A through D from DOH.



QUESTIONS / DISCUSSION



ITEM FOR INFORMATION NO. 2

“June 24, 2024

WATER SYSTEM
REVENUE
BONDS -
COMPLIANCE
WITH RATE
COVENANT

Chair and Members
Board of Water Supply
City and County of Honolulu
Honolulu, Hawai'i 96843

Chair and Members:

Subject: Water System Revenue Bonds – Compliance with Rate Covenant

In accordance with Article VIII, Section 8.02, Rates and Charges, of the Water System Revenue Bonds, Resolution No. 717, 2001, we have completed a review of the financial condition of the Board of Water Supply for the purpose of estimating whether the Net Revenues for the current fiscal year and the next succeeding fiscal year will be sufficient to comply with the rate covenant in Section 8.02.

Our review included an examination of the financial and accounting records, which we considered necessary to express an opinion on the adequacy of the department's rates and other charges such that Net Revenues shall not be less than the Net Revenue Requirement in each fiscal year.

In our opinion, Net Revenues for fiscal years 2024 and 2025 will not be less than the Net Revenue Requirement for such fiscal years.

The attached schedules present the actual and estimated revenues and expenditures in compliance with the above rate covenant.

Respectfully Submitted,

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

Attachment”

The foregoing was for information only.

DISCUSSION: Kaliko Lum Kee, Acting Waterworks Controller, Finance Division, gave the report.

Board Member Andaya thanked the BWS for staying in compliance with the rate covenant. He shared that he heard great feedback on the BWS's bond rating.

Manager Lau expressed his appreciation to the Finance Division for taking the lead.

Chair Anthony commented that the difference in the last fiscal compared to this fiscal indicates some flexibility.

Mr. Kaliko Lum Kee stated that the ratio comparison in Fiscal Year 2023 was above three; therefore, the BWS is doing well financially.

BOARD OF WATER SUPPLY
CITY AND COUNTY OF HONOLULU
SUPPLEMENTAL SCHEDULE OF NET REVENUE REQUIREMENT
PROJECTED AS OF JUNE 30, 2024

		<u>Amount</u>
REVENUES		
Water sales	\$	254,528,451
Interest		15,107,238
Other		<u>3,369,565</u>
Total revenues		<u><u>273,005,254</u></u>
DEDUCTIONS		
Operating expenses		215,833,773
Less depreciation expense		<u>(46,718,308)</u>
Total deductions		<u>169,115,465</u>
Net revenues	\$	<u><u>103,889,789</u></u>
NET REVENUE REQUIREMENT		
Greater of:		
1) Aggregate debt service	\$	28,017,410
Required deposits - subordinate obligation fund		<u>28,017,410</u>
2) Aggregate debt service		28,017,410
	x	<u>1.20</u>
Net revenue requirement	\$	<u><u>33,620,892</u></u>
Target New Requirement of 1.7		47,629,597
Current ratio		3.71

Note: Subject to change after year end adjustments

ITEM FOR INFORMATION NO. 3

“June 24, 2024

STATUS
UPDATE OF
GROUNDWATER
LEVELS AT
ALL INDEX
STATIONS

Chair and Members
Board of Water Supply
City and County of Honolulu
Honolulu, Hawai'i 96843

Chair and Members:

Subject: Status Update of Groundwater Levels at All Index Stations

Four aquifer index stations were in low groundwater condition for the production month of May 2024. Kaimukī, Pearl City, Punalu'u, and Waialua are in Caution Status. The monthly production average for May 2024 was 127.73 million gallons per day.

The Board of Water Supply rainfall index for the month of May 2024 was 283 percent of normal, with a 5-month moving average of 131 percent. As of June 4, 2024, the Hawai'i Drought Monitor shows no drought conditions across O'ahu. The National Weather Service is forecasting below-normal precipitation through at least October 2024.

Most monitoring wells exhibited stable to slightly increasing head levels for the month of May 2024, likely reflecting the seasonal lower production combined with relatively high rainfall for the past two months. Average monthly production for May 2024 was very similar to May 2023 and lower than the 5-year monthly average. Increased conservation messaging is recommended over the summer months.

Respectfully Submitted,

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

Attachment”

The foregoing was for information only.

DISCUSSION:

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

Manager Lau commented that there was amazing rain in May, which affects the island positively and negatively. Normally, drier areas are wet, and vegetation is growing, which means that during drier months, the vegetation will become fuel for potential wildland fires. He shared that Hawaiian Electric will conduct a public safety power shutoff beginning July on the Leeward coast.

Chair Anthony commented that the public safety power shutoff would affect the BWS as well since the BWS is limited to backup generators.

Manager Lau stated that the BWS has 90 plus wells and 90 plus booster pump stations throughout the BWS water system. The BWS has approximately a dozen backup generators to assist areas as necessary. During the public safety power shutoff, the BWS will have generators prepared to address the Leeward coast. As a reminder, Manager Lau mentioned that hurricane season began on June 1, 2024.

**PRODUCTION, HEAD AND RAINFALL REPORT
MONTH OF MAY 2024**

POTABLE

STATION	MGD
HONOLULU (1)	
KULIOUOU	0.06
WAILUPE	0.02
AINA KOA	0.00
AINA KOA II	0.62
MANOA II	0.91
PALOLO	1.37
KAIMUKI HIGH	2.35
KAIMUKI LOW	0.46
WILDER	7.87
BERETANIA HIGH	0.57
BERETANIA LOW	1.47
KALIHI HIGH	3.82
KALIHI LOW	2.42
KAPALAMA	0.16
KALIHI SHAFT	7.97
MOANALUA	2.59
HALAWA SHAFT	0.00
KAAMILO	0.89
KALAUAO	8.86
PUNANANI	9.22
KAAHUMANU	0.25
HECO WAIU	2.61
MANANA	0.11
WAIALAE IKI	0.50
WELLS SUBTOTAL:	55.10
MANOA TUNNEL	0.17
PALOLO TUNNEL	0.00
GRAVITY SUBTTL:	0.17
HONOLULU SUBTTL:	55.27

STATION	MGD
WINDWARD (2)	
WAIMANALO II	0.69
WAIMANALO III	0.00
KUOU I	1.12
KUOU II	0.05
KUOU III	0.73
LULUKU	0.86
HAIKU	0.06
IOLEKAA	0.00
KAHALUU	0.54
KAHANA	0.61
PUNALUU I	0.00
PUNALUU II	1.84
PUNALUU III	1.14
KALUANUI	0.94
MAAKUA	0.24
HAUULA	0.26
WELLS SUBTOTAL:	9.07
WAIM. TUNNELS I & II	0.00
WAIM. TUNNELS III&IV	0.19
WAIHEE INCL. WELLS	0.30
WAIHEE TUNNEL	4.62
LULUKU TUNNEL	0.19
HAIKU TUNNEL	0.34
KAHALUU TUNNEL	1.56
GRAVITY SUBTOTAL:	7.20
WIND. SUBTOTAL:	16.27

STATION	MGD
NORTH SHORE (3)	
KAHUKU	0.36
OPANA	0.99
WAIALEE I	0.17
WAIALEE II	0.16
HALEIWA	0.00
WAIALUA	1.44
N.SHORE SUBTOTAL:	3.12

STATION	MGD
MILILANI (4)	
MILILANI I	3.24
MILILANI II	0.00
MILILANI III	0.56
MILILANI IV	0.00
MILILANI SUBTOTAL:	3.79

STATION	MGD
WAHIAWA (5)	
WAHIAWA	0.00
WAHIAWA II	3.11
WAHIAWA SUBTOTAL:	3.11

STATION	MGD
PEARL CITY-HALAWA (6)	
HALAWA 277	0.00
HALAWA 550	0.00
AIEA	0.00
AIEA GULCH 497	0.00
AIEA GULCH 550	0.19
KAONOHI I	1.39
WAIMALU I	0.00
NEWTOWN	1.73
WAIU	1.70
PEARL CITY I	0.76
PEARL CITY II	1.05
PEARL CITY III	0.16
PEARL CITY SHAFT	0.91
PEARL CITY-HALAWA SUBTOTAL:	7.90

STATION	MGD
WAIPAHU-EWA (7)	
WAIPIO HTS.	1.60
WAIPIO HTS. I	0.00
WAIPIO HTS. II	0.29
WAIPIO HTS. III	1.04
WAIPAHU	6.43
WAIPAHU II	1.96
WAIPAHU III	1.62
WAIPAHU IV	2.41
KUNIA I	5.49
KUNIA II	1.56
KUNIA III	1.30
HOAEAE	5.20
HONOULIULI I	0.00
HONOULIULI II	5.56
MAKAKILO	0.00
WAIPAHU-EWA SUBTOTAL:	34.45

STATION	MGD
WAIANAE (8)	
MAKAHA I	0.58
MAKAHA II	0.00
MAKAHA III	0.17
MAKAHA V	0.18
MAKAHA VI	0.00
MAKAHA SHAFT	0.00
KAMAILE	0.05
WAIANAE I	0.13
WAIANAE II	0.33
WAIANAE III	0.83
WELLS SUBTOTAL:	2.28
WAIA. C&C TUNNEL	1.40
WAIA. PLANT. TUNNELS	0.14
GRAVITY SUBTOTAL:	1.54
WAIANAE SUBTOTAL:	3.81

NONPOTABLE

NONPOTABLE	MGD
KALAUAO SPRINGS	0.45
BARBERS POINT WELL	1.11
GLOVER TUNNEL NP	0.31
NONPOTABLE TOTAL:	1.88

RECYCLED WATER (APRIL 2024)

RECYCLED WATER	MGD
HONOULIULI WRF R-1	3.46
HONOULIULI WRF RO	4.67
RECYCLED TOTAL:	8.13

**PRODUCTION, HEAD AND RAINFALL REPORT
MONTH OF MAY 2024**

PRODUCTION SUMMARIES

TOTAL WATER	MGD
PUMPAGE	118.82
GRAVITY	8.91
POTABLE TOTAL:	127.73
NONPOTABLE	1.88
RECYCLED WATER	8.13
TOTAL WATER:	137.73

CWRM PERMITTED USE AND BWS ASSESSED YIELDS FOR BWS POTABLE SOURCES				
WATER USE DISTRICTS		A	B	C
		PERMITTED USE/ BWS YLDS	MAY 2024	DIFF. A-B
1	HONOLULU	83.32	55.10	28.22
2	WINDWARD	25.02	16.27	8.75
3	NORTH SHORE	4.70	3.12	1.58
4	MILILANI	7.53	3.79	3.74
5	WAHIAWA	4.27	3.11	1.16
6	PEARL CITY-HALAWA	12.25	7.90	4.35
7	WAIPAHU-EWA	50.63	34.45	16.18
8	WAIANAEE	4.34	3.81	0.53
TOTAL:		192.06	127.56	64.50

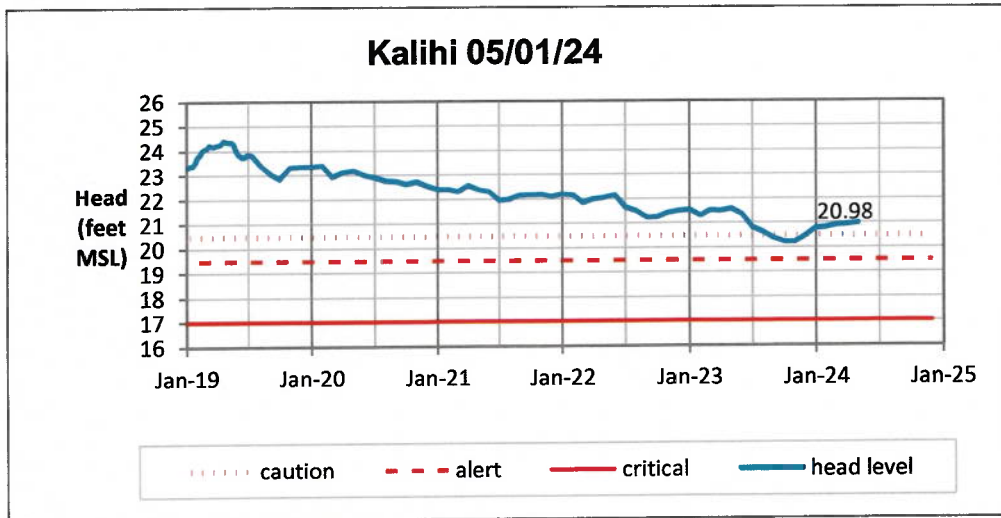
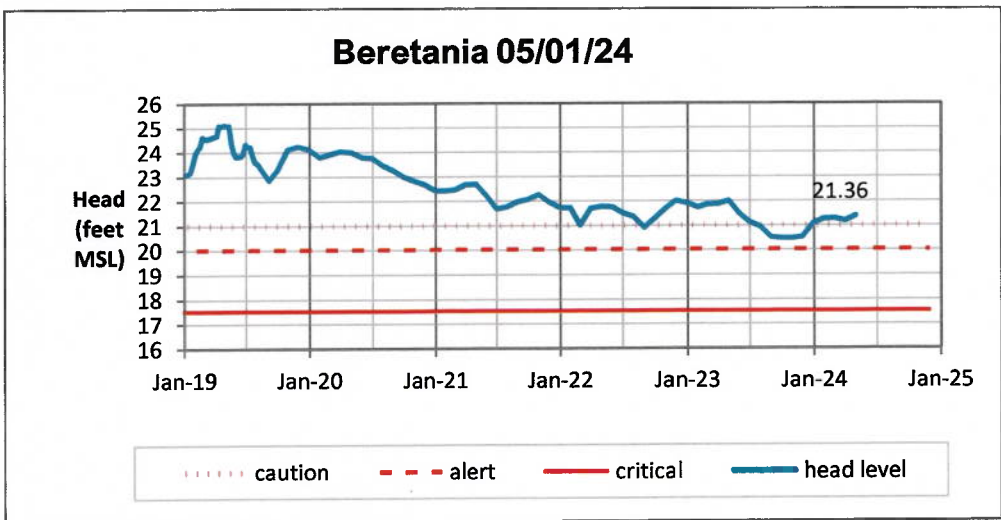
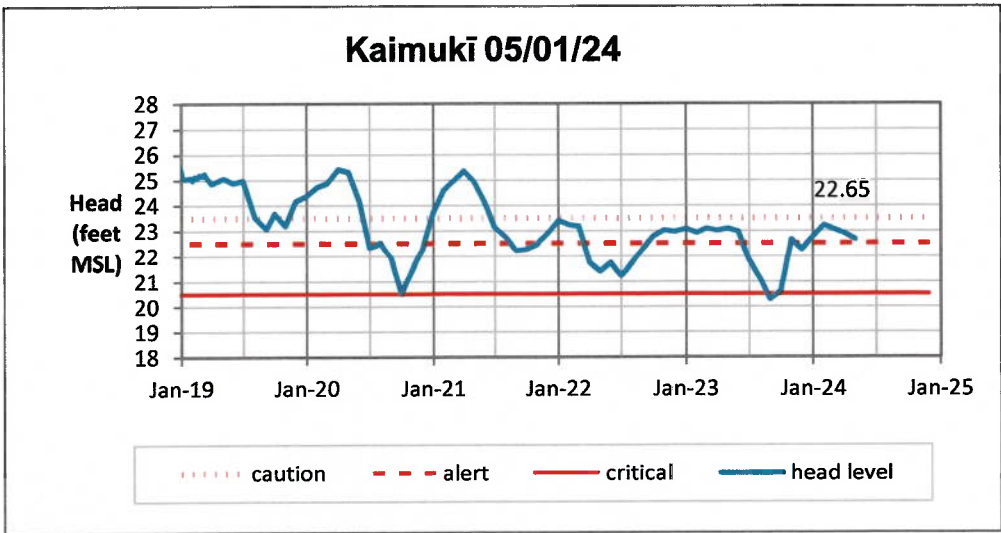
CWRM PERMITTED USE FOR BWS NONPOTABLE SOURCES				
WATER USE DISTRICTS		A	B	C
		PERMITTED USE	MAY 2024	DIFF. A-B
7	WAIPAHU-EWA (BARBERS POINT WELL)	1.00	1.11	-0.11
TOTAL:		1.00	1.11	-0.11

EFFECTIVE WATER DEMAND PER DISTRICT

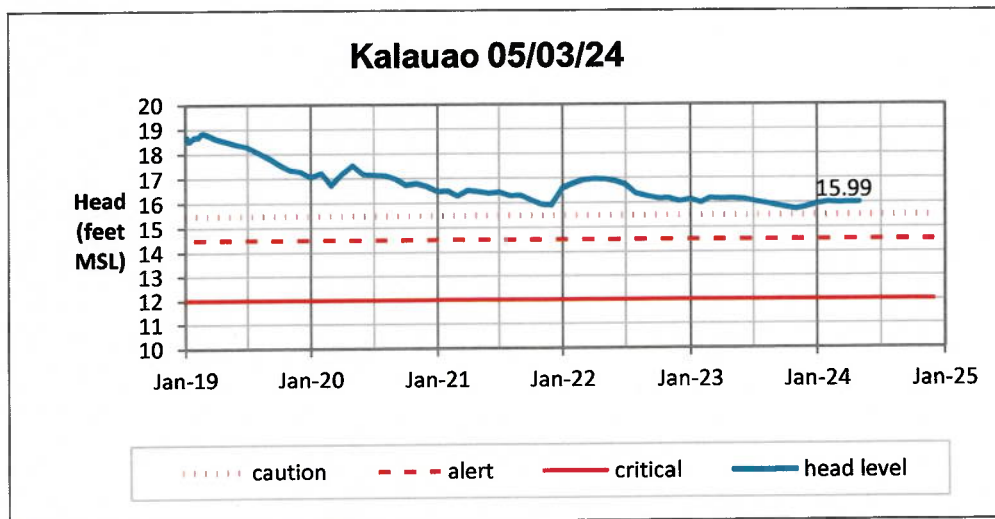
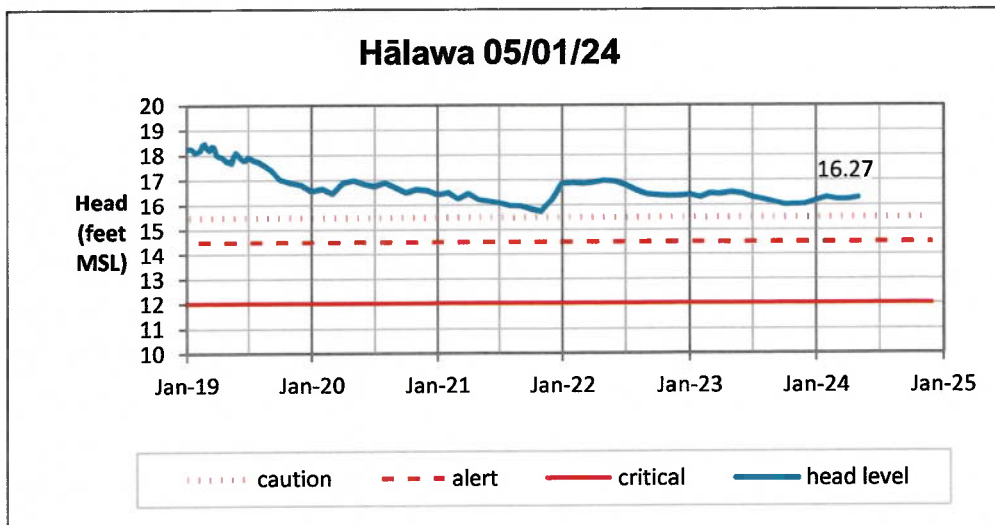
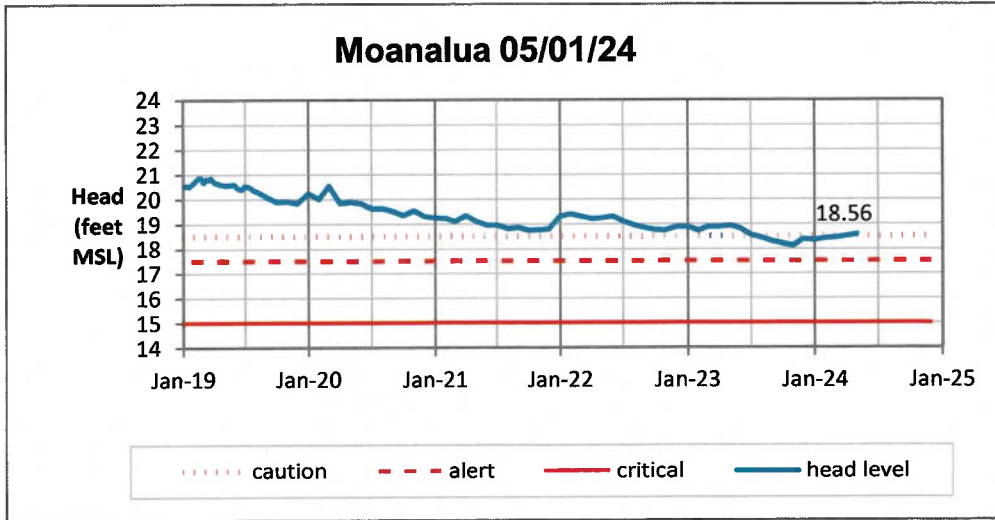
IMPORT/EXPORT BETWEEN WATER USE DISTRICTS			
FROM	TO		MGD
2	1	WINDWARD EXPORT	0.14
7	8	BARBERS PT LB	4.70

WATER USE DISTRICTS		SUBTOTAL	IMPORT	EXPORT	EFFECTIVE WATER DEMAND
1	HONOLULU	55.27	0.14	-	55.41
2	WINDWARD	16.27	-	0.14	16.13
3	NORTH SHORE	3.12	-	-	3.12
4	MILILANI	3.79	-	-	3.79
5	WAHIAWA	3.11	-	-	3.11
6	PEARL CITY-HALAWA	7.90	-	-	7.90
7	WAIPAHU-EWA	34.45	-	4.70	29.75
8	WAIANAEE	3.81	4.70	-	8.52
TOTAL:		127.73	4.84	4.84	127.73

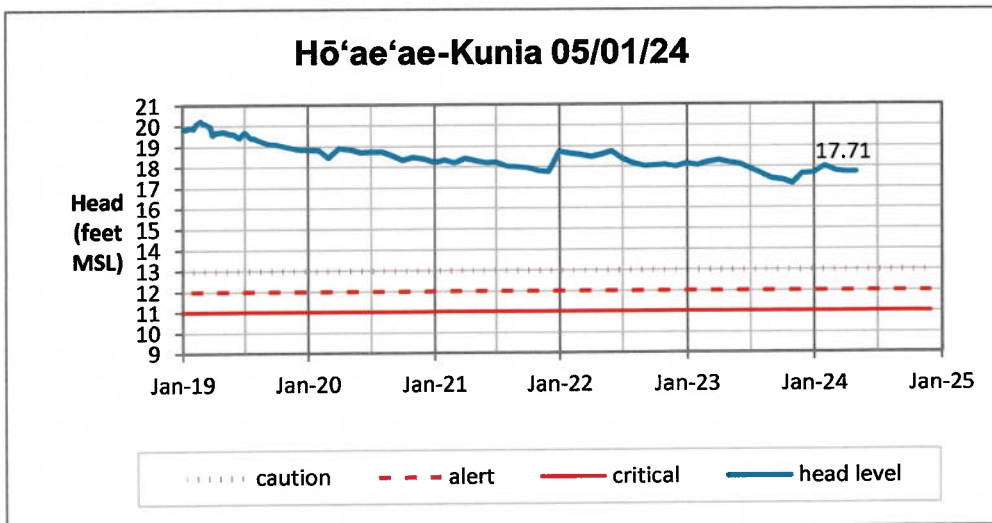
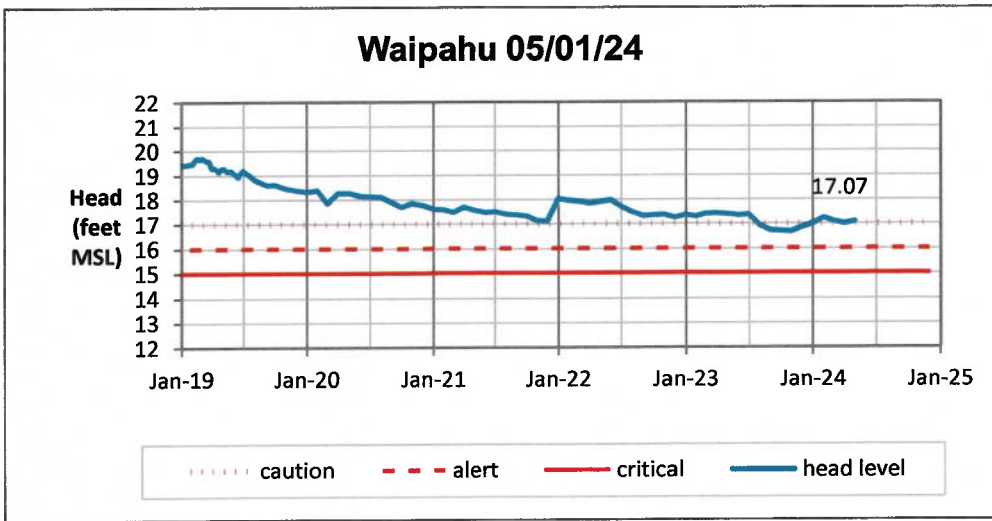
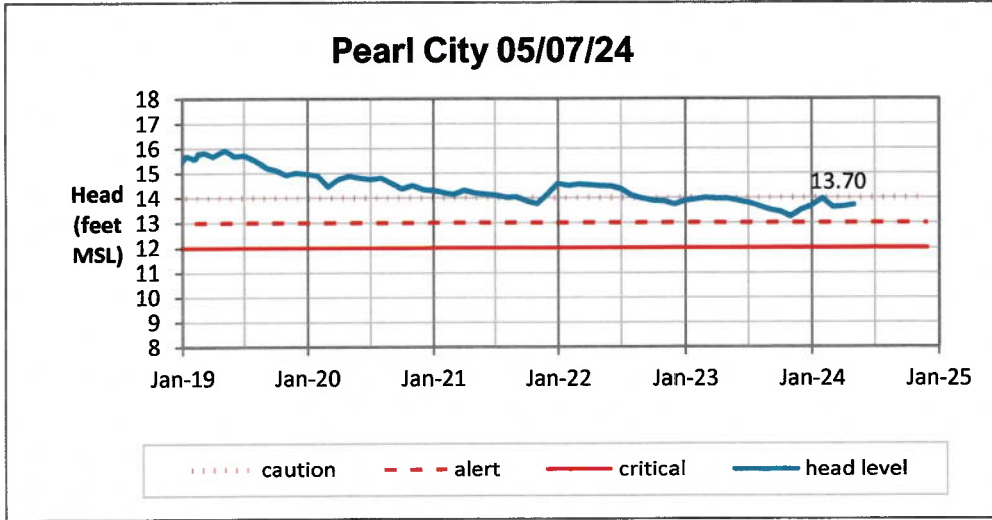
Head Report



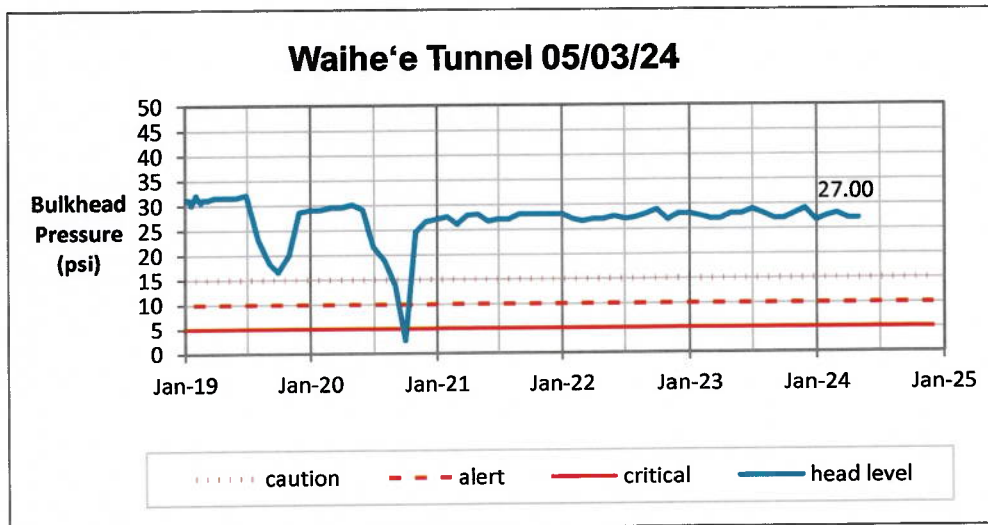
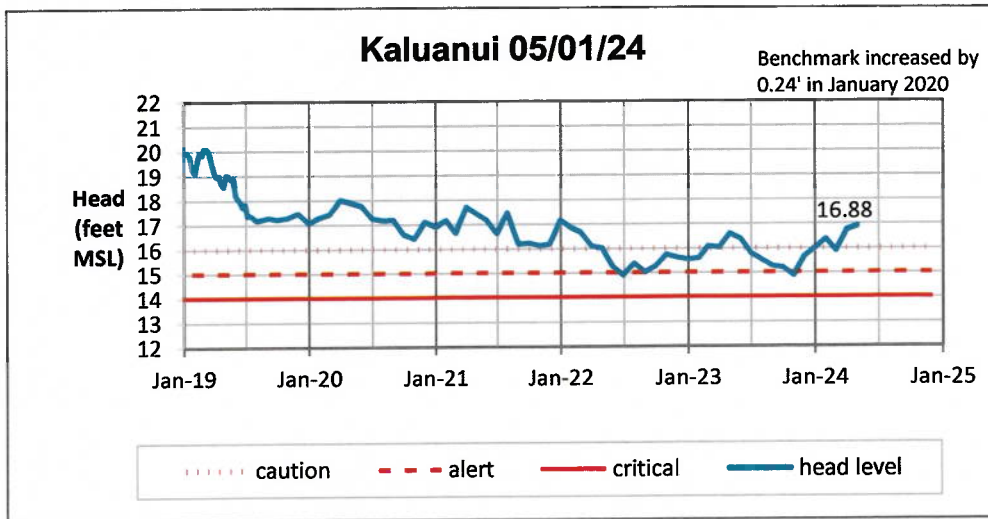
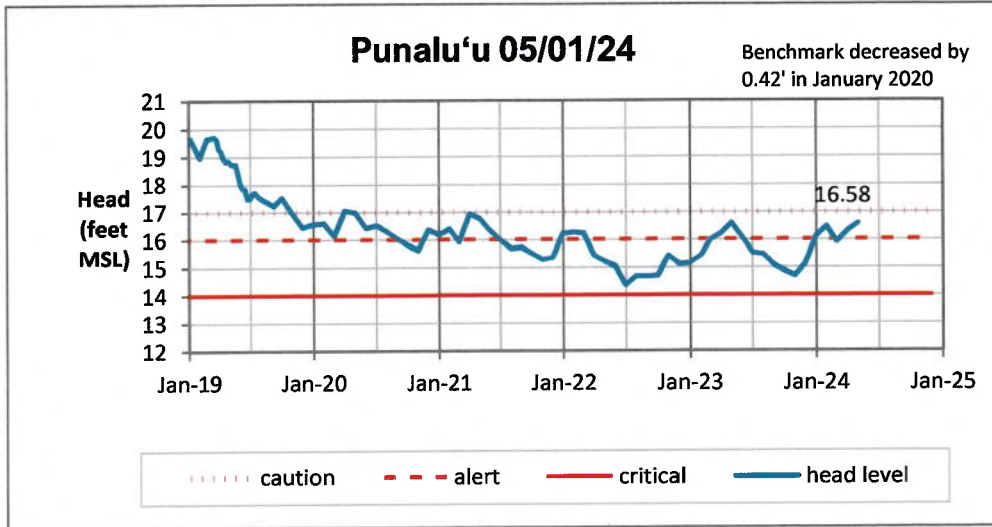
Head Report



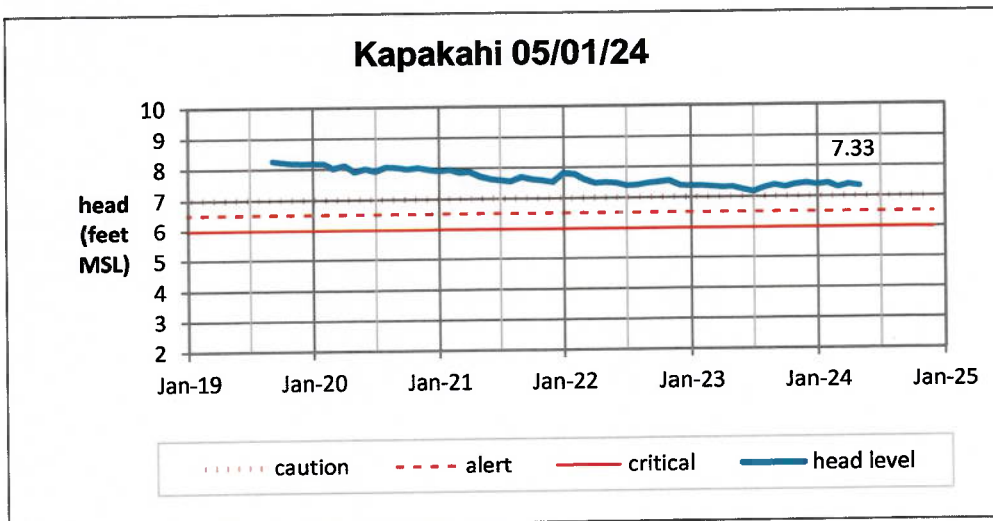
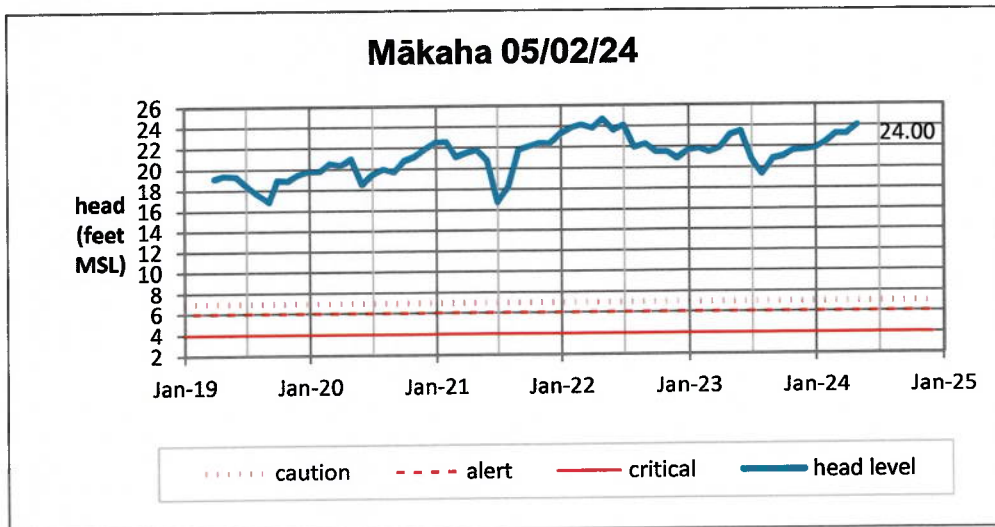
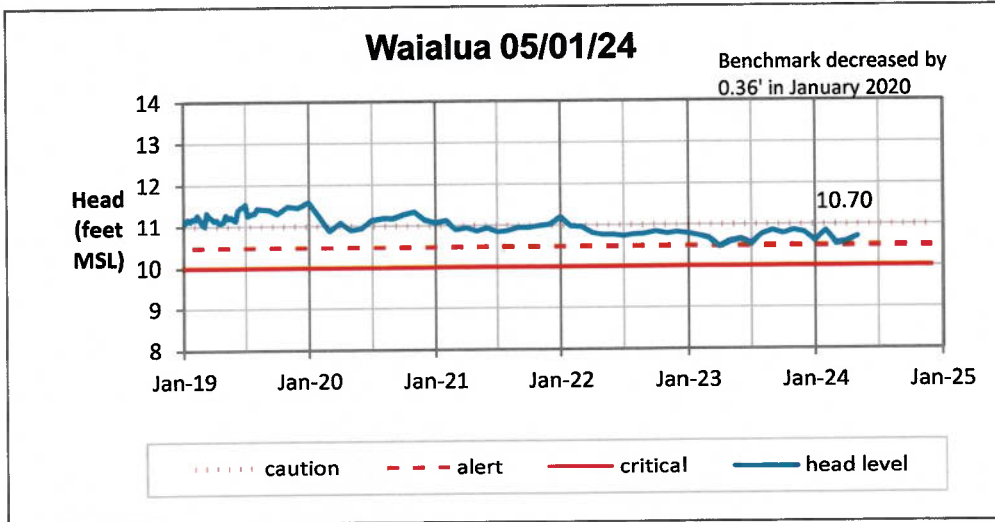
Head Report

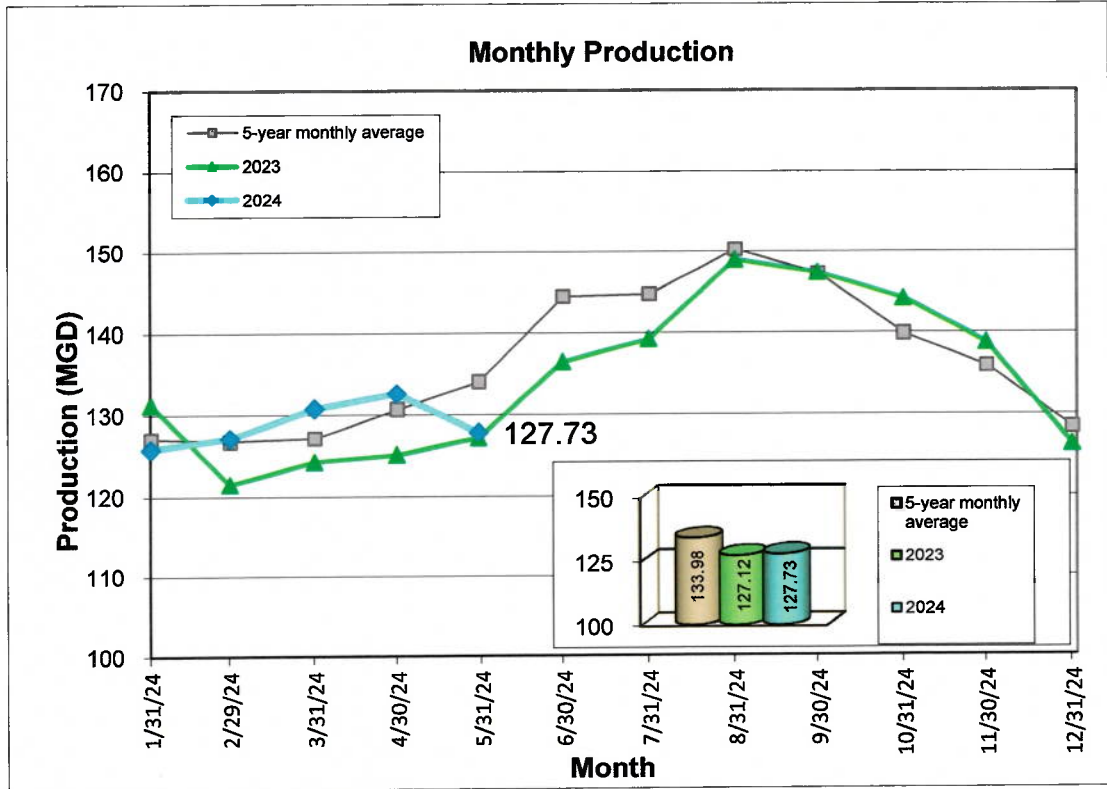
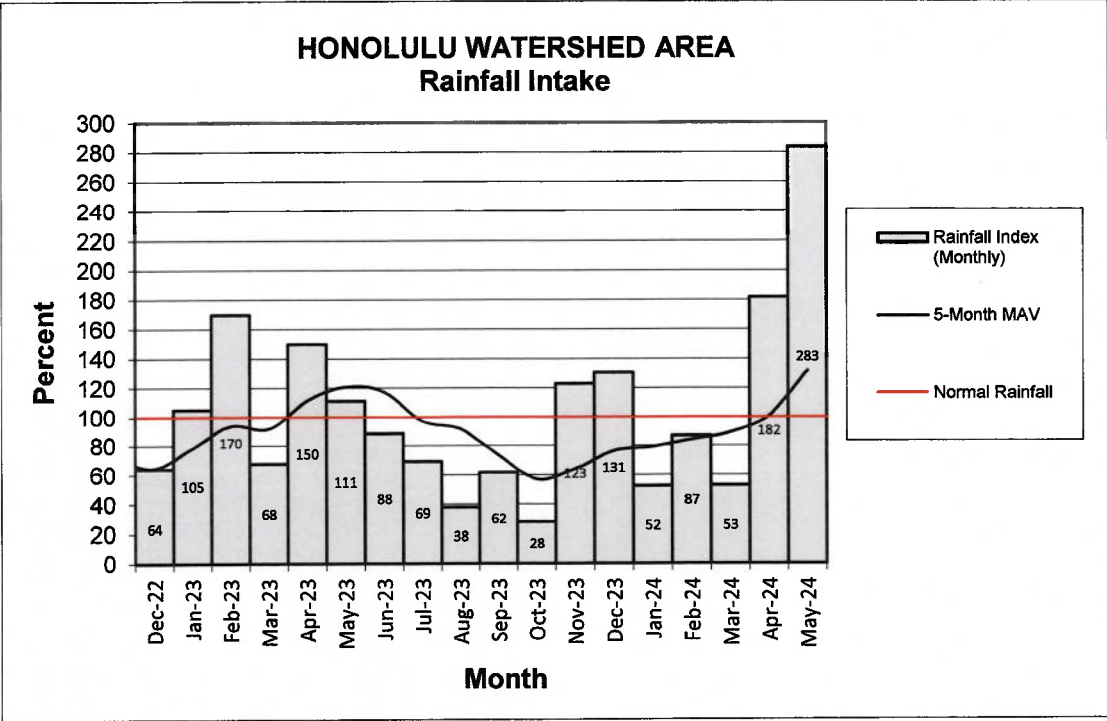


Head Report



Head Report





ITEM FOR INFORMATION NO. 4

“June 24, 2024

WATER MAIN
REPAIR
REPORT FOR
MAY 2024

Chair and Members
Board of Water Supply
City and County of Honolulu
Honolulu, Hawai'i 96843

Chair and Members:

Subject: Water Main Repair Report for May 2024

Glenn Ah Yat, Acting Assistant Program Administrator, Field Operations Division, will report on water main repair work for the month of May 2024.

Respectfully submitted,

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

Attachment”

The foregoing was for information only.

DISCUSSION:

Glenn Ah Yat, Acting Assistant Program Administrator, Field Operations Division, gave the report.

Manager Lau and Chair Anthony thanked the Field Operations Division for their hard work in repairing main breaks and working on leaks detected.

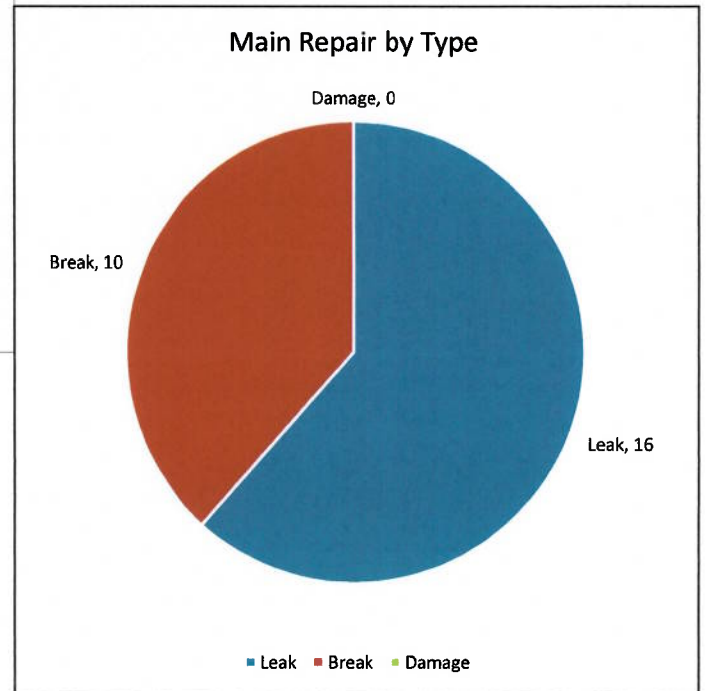
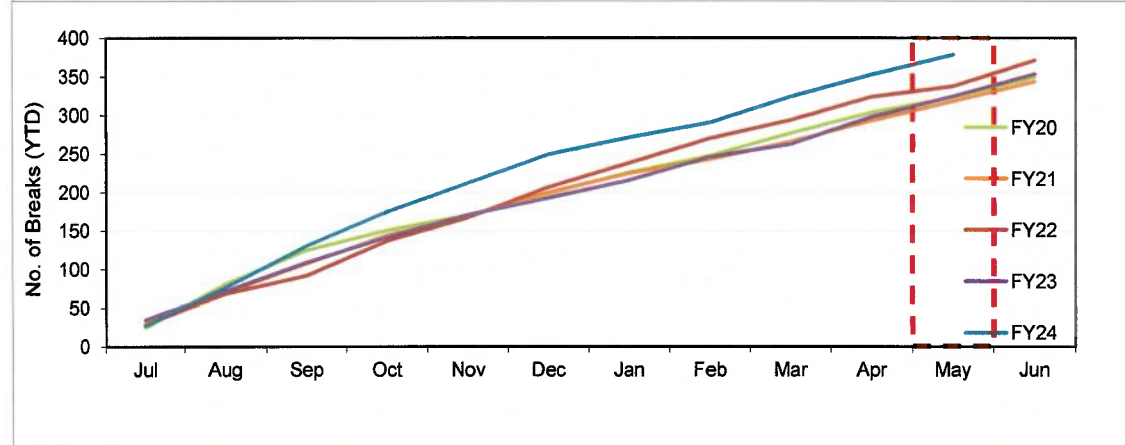
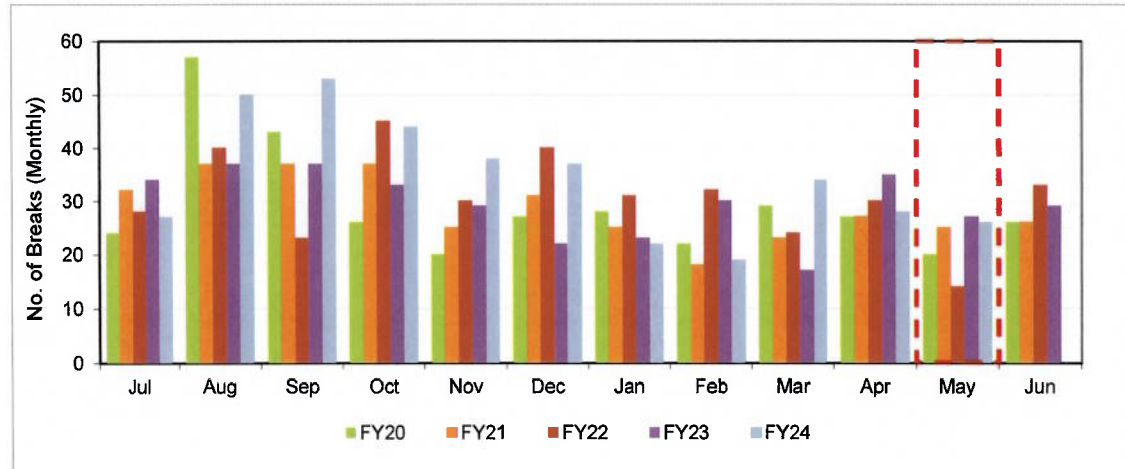
**WATER MAIN REPAIR REPORT
for May 2024**

Monthly Main Breaks

FY	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
2024	27	50	53	44	38	37	22	19	34	28	26		378
2023	34	37	37	33	29	22	23	30	17	35	27	29	353
2022	28	40	23	45	30	40	31	32	24	30	14	33	370
2021	32	37	37	37	25	31	25	18	23	27	25	26	343
2020	24	57	43	26	20	27	28	22	29	27	20	26	349

Main Repair by Type

Type	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
Leak	--	--	--	--	--	24	12	12	19	17	16		100
Break	--	--	--	--	--	13	10	7	14	11	10		65
Damage	--	--	--	--	--	0	0	0	1	0	0		1
Total	---	---	---	---	---	37	22	19	34	28	26	0	166



Date	Address	Size (In)	Pipe Type	Date	Address	Size (In)	Pipe Type
5/1/2024	91-618 Pupu St, Ewa Beach	8	CI				
5/1/2024	620 Kohou St, Honolulu	12	CI				
5/2/2024	44-28 Aina Moi Pl, Kaneohe	6	CI				
5/6/2024	4205 Halupa St, Honolulu	8	CI				
5/8/2024	210 Kellog St, Wahiawa	16	CC				
5/10/2024	311 N Kalaheo Ave, Kailua	8	PVC				
5/10/2024	1190 Dillingham Blvd, Honolulu	12	CI				
5/11/2024	1433 Kokea St, Honolulu	8	CI				
5/11/2024	620 Kohou St, Honolulu	12	CI				
5/11/2024	3148 Alika Ave, Honolulu	8	PVC				
5/17/2024	67-321 Farrington Hwy, Waialua	8	CI				
5/20/2024	20 Dowsett Ave, Honolulu	8	DI				
5/21/2024	87-290 Laulele St, Waianae	8	CI				
5/22/2024	936 11th Ave, Honolulu	6	CI				
5/22/2024	2186 Halakau St, Honolulu	12	DI				
5/23/2024	2180 Halakau St, Honolulu	12	DI				
5/23/2024	800 Maunaolu St, Waianae	16	AC				
5/23/2024	2174 Halakau St, Honolulu	12	DI				
5/23/2024	84 Ala Holo Lp, Waianae	12	CI				
5/24/2024	91-1088 Kaunolu St, Ewa Beach	8	CI				
5/24/2024	84-880 Maunaolu St, Waianae	16	AC				
5/27/2024	99-703 Hukaa St, Aiea	8	CI				
5/28/2024	2233 Lokelani St, Honolulu	6	CI				
5/29/2024	1617 Dillingham Blvd, Honolulu	8	CI				
5/30/2024	1403 Luinakoa St, Honolulu	8	CI				
5/30/2024	98-2044 Kipikua St, Aiea	8	DI				

LEAK DETECTION for May 2024

POIs Investigated

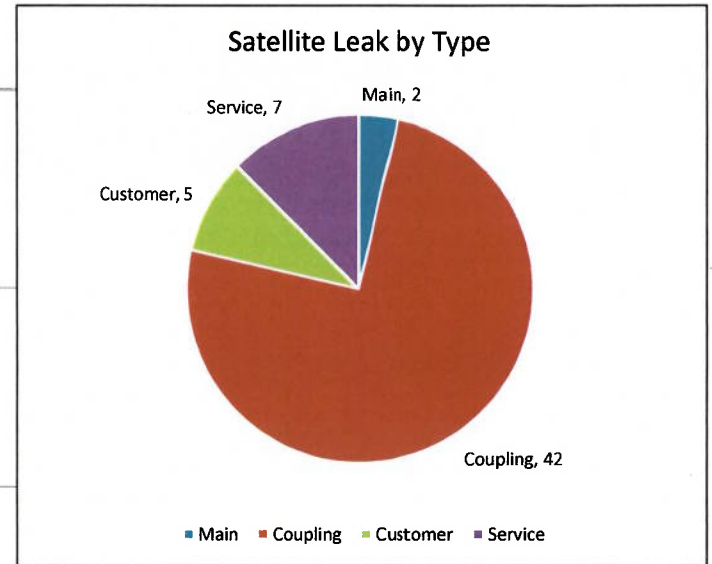
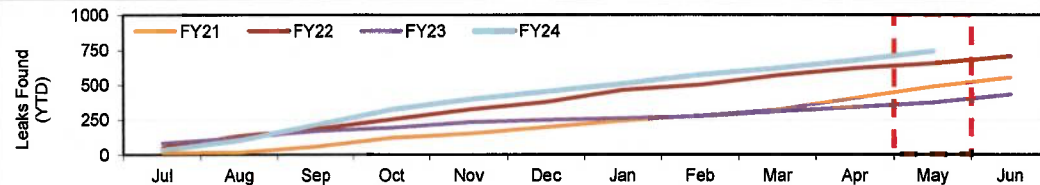
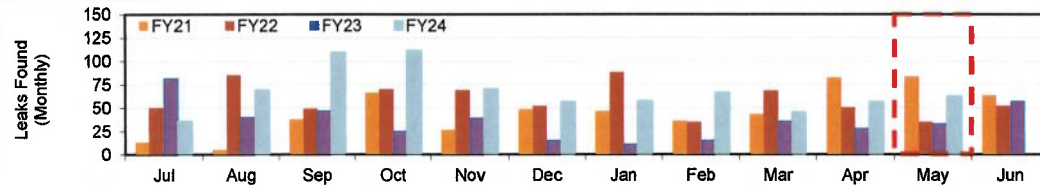
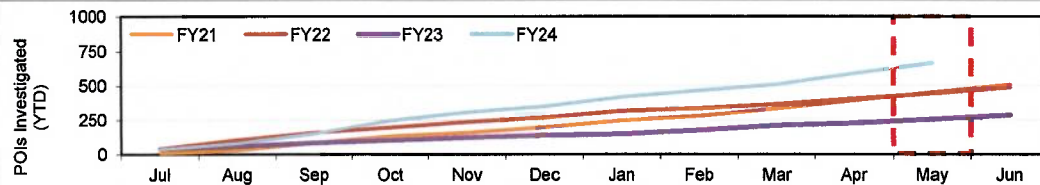
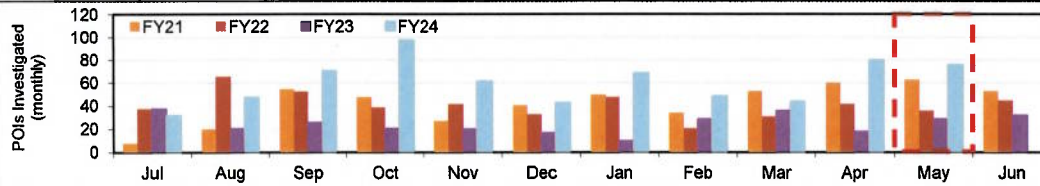
FY	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
2024	31	47	70	97	61	42	68	48	43	79	75		661
2023	37	20	25	20	19	16	9	28	35	17	28	31	285
2022	37	65	52	38	41	32	47	20	30	41	35	44	482
2021	7	19	54	47	26	40	49	33	52	59	62	52	500

Leaks Found

FY	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
2024	36	69	109	111	70	56	57	66	45	56	62		737
2023	82	40	47	25	39	15	11	15	36	28	33	57	428
2022	50	85	49	70	69	52	88	35	68	50	35	52	703
2021	13	5	38	66	26	48	46	36	43	82	83	63	549

Satellite Leak by Type

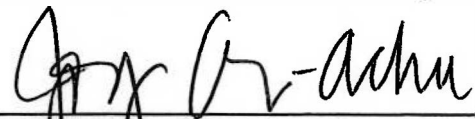
Type	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
Main	6	14	13	6	5	4	3	5	5	2	7		70
Coupling	17	35	74	71	48	46	47	41	35	42	44		500
Customer	9	13	14	23	12	1	5	16	3	5	5		106
Service	4	7	8	11	5	5	2	4	2	7	6		61
Total	36	69	109	111	70	56	57	66	45	56	62	0	737



**MOTION TO
ADJOURN**

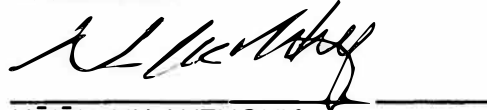
There being no further business, Chair Anthony, at 3:11 PM, called for a motion to adjourn the Regular Session. Edwin Sniffen so moved, seconded by Jonathan Kaneshiro, and unanimously carried.

The minutes of the Regular Meeting held on June 24, 2024, are respectfully submitted,



 JOY CRUZ-ACHIU

APPROVED:



NĀ'ĀLEHU ANTHONY
 Chair of the Board

AUG 26 2024

 Date

THE MINUTES OF THE REGULAR MEETING HELD ON JUNE 24, 2024, WERE APPROVED AT THE AUGUST 26, 2024, BOARD MEETING			
	AYE	NO	COMMENT
NĀ'ĀLEHU ANTHONY	X		
JONATHAN KANESHIRO	X		
BRYAN P. ANDAYA	X		
KAPUA SPROAT	X		
LANCE WILHELM			ABSTAIN
EDWIN H. SNIFFEN			ABSENT
GENE C. ALBANO			ABSENT