

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

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

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  
JONATHAN KANESHIRO, Vice Chair  
BRYAN P. ANDAYA  
LANCE WILHELM  
KĒHAULANI PU'U  
EDWIN H. SNIFFEN, Ex-Officio  
GENE C. ALBANO, P.E., Ex-Officio

April 22, 2025

**NOTICE**

The Board of Water Supply, City and County of Honolulu, Regular Meeting will be held on Monday, April 28, 2025, 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 South Beretania Street, Honolulu, HI 96843.

Public parking for this meeting is available in the Public Service Building customer parking lot.

**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, April 28, 2025, at noon. Submit written testimony by:
  - Email to [board@hbws.org](mailto:board@hbws.org)
  - Online at [boardofwatersupply.com/testimony](http://boardofwatersupply.com/testimony)
  - Mail to Board of Water Supply, 630 South Beretania Street, Honolulu, HI 96843
  - Fax to (808) 748-5079
- Oral testimony will be accepted remotely and in person during the meeting. Pre-registration is encouraged to facilitate as much remote and in-person testimony as reasonably possible during the time allotted. Testifiers should also consider submitting a written version of their oral testimony.
  - To testify remotely by phone or video using the Zoom videoconferencing platform, please submit your request by:
    - Email to [board@hbws.org](mailto:board@hbws.org)
    - Online at [boardofwatersupply.com/testimony](http://boardofwatersupply.com/testimony)Zoom registration instructions, as well as participant guidelines, will be sent to the contact information provided. Once confirmed as registered, testifiers will receive an email containing the links and instructions to join the Zoom session. Submit your request to testify remotely by Friday, April 25, 2025, at noon.
  - To testify in person at the Board of Water Supply, Public Service Building, 630 South Beretania Street, Honolulu, HI 96843, please pre-register by submitting your request by Monday, April 28, 2025:
    - Email to [board@hbws.org](mailto:board@hbws.org)
    - Online at [boardofwatersupply.com/testimony](http://boardofwatersupply.com/testimony)

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

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

### **MATERIALS AVAILABLE FOR INSPECTION**

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

### **VIEWING THE MEETING**

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

### **SPECIAL REQUESTS AND ACCOMMODATIONS**

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

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

The agenda for April 28, 2025, 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 March 24, 2025
2. Adoption of Resolution No. 998, 2025, Acceptance of Gift to the Board of Water Supply from a Native Hawaiian Artists' Hui for Murals on Board of Water Supply Structures
3. Authorizing a Public Hearing to Consider the Proposed Fiscal Year 2025-2026 Operating and Capital Improvement Program Budget

**ITEMS FOR INFORMATION**

1. Update on the Board of Water Supply's Response to the Potential Impacts of the Red Hill Fuel Contamination
2. Recruitment Status
3. Status Update of Groundwater Levels at All Index Stations
4. Water Main Repair Report for March 2025

## MINUTES

To watch the recording of this meeting, please click on the following link: :  
<https://vimeo.com/bwshonolulu/apr-28-2025>. Closed captioning is available.

### THE REGULAR MEETING OF THE BOARD OF WATER SUPPLY

April 28, 2025

At 2:00 PM on April 28, 2025, 2025, in the Public Service Building Board Room at 630 South Beretania Street, Honolulu, Hawai'i, Board Vice Chair Jonathan Kaneshiro called to order the Regular Meeting.

Present: Jonathan Kaneshiro, Vice Chair  
Bryan P. Andaya, Board Member via Zoom  
Lance Wilhelm, Board Member  
Kēhaulani Pu'u, Board Member via Zoom  
Edwin H. Sniffen, Ex-Officio via Zoom  
Gene Albano, Ex-Officio via Zoom

Also Present: Ernest Lau, Manager and Chief Engineer  
Patrick Chun, Acting Program Administrator,  
Capital Projects 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  
Leanne Matsumoto, 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  
Kirk Iwamoto, Acting Water Quality Laboratory  
Director, Water Quality Division  
Marc Chun, Program Administrator,  
Water Resources Division  
Pekelo Martin, Acting Program Administrator,  
Water System Operations Division  
Joyce Lin, Civil Engineer IV, Office of the Manager  
and Chief Engineer  
Kimberly Kuwaye, Manager Secretary  
Joy Cruz-Achiu, Board Secretary  
Kathy Mitchell, Administrative Services Officer

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

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

Absent: Nā'ālehu Anthony, Chair  
Erwin Kawata, Deputy Manager

Vice Chair Jonathan Kaneshiro welcomed everyone to the April 28, 2025, 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, Vice Chair Kaneshiro stated that a recording would play to share reminders for public participation and 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](http://www.boardofwatersupply.com/boardmeeting). The public may attend this meeting in person at the Public Service building located at 630 South Beretania Street. The public may also view a live stream of today's meeting on our website at [www.boardofwatersupply.com/live](http://www.boardofwatersupply.com/live). We have been accepting written or oral testimony for today's meeting. Instructions and an online submittal form are available at [boardofwatersupply.com/testimony](http://boardofwatersupply.com/testimony). The deadline to submit advance written testimony has passed. Testimony received by noon today 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](http://boardofwatersupply.com/testimony) is strongly encouraged. To testify in person, please register using our online form or come to the public service building at 630 South Beretania Street. We have a representative in the lobby to provide intake and further instructions. To request to testify remotely, please complete the online form at [boardofwatersupply.com/testimony](http://boardofwatersupply.com/testimony). Requestors will receive an email containing links and instructions 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.

Vice Chair Kaneshiro requested a roll call for the Regular Meeting. He asked those participating remotely to give the appropriate disclosures up responding.

Board Member Bryan Andaya joined via Zoom and responded aye, and disclose that he was alone at his location; Board Member Kēhaulani Pu'u joined via Zoom and responded aye, and disclosed that she was alone at her location; Board Member Edwin Sniffen joined via Zoom and responded aye, and disclosed that he was alone at her location; Board Member Gene Albano joined via Zoom, responded aye, and disclosed that he was alone at his location; Board Member Lance Wilhelm responded e'o and was present in the Board room; and Vice Chair Kaneshiro was present in the Boardroom. Chair Nā'ālehu Anthony was absent.

Chair Anthony introduced those in the Boardroom: Manager Ernest Lau, Board Secretary Joy L. Cruz-Achui, Manager Secretary Kimberly Kuwaye, and Information Specialist II Wayne Maria.

Deputy Jeff Lau and Deputy Jessica Wong joined via Zoom from the City and County Corporation Counsel. Deputy Manager Erwin Kawata was absent.

## REGULAR MEETING

### APPROVAL OF MINUTES

Approval of the Minutes of the Regular Meeting Held on March 24, 2025.

### MOTION TO APPROVE

Lance Wilhelm and Gene Albano motioned and seconded, respectively, to approve the Minutes of the Regular Meeting Held on March 24, 2025.

Ms. Cruz-Achui conducted a roll call: Board Member Bryan Andaya, aye; Board Member Lance Wilhelm, aye; Board Member Kēhaulani Pu'u, aye; Board Member Edwin Sniffen, abstain; Board Member Gene Albano, aye; and Vice Chair Jonathan Kaneshiro, aye. Ms. Cruz-Achui announced that the motion passed with five ayes and one abstention. Chair Nā'ālehu Anthony was absent.

THE MINUTES OF THE REGULAR MEETING HELD ON MARCH 24, 2025, WERE APPROVED AT THE APRIL 28, 2025, BOARD MEETING			
	AYE	NO	COMMENT
NĀ'ĀLEHU ANTHONY			ABSENT
JONATHAN KANESHIRO	X		
BRYAN P. ANDAYA	X		
LANCE WILHELM	X		
KĒHAULANI PU'U	X		
EDWIN H. SNIFFEN			ABSTAIN
GENE C. ALBANO	X		



"April 28, 2025

ADOPTION OF  
RESOLUTION  
NO. 998, 2025,  
ACCEPTANCE  
OF GIFTS TO  
THE BOARD OF  
WATER SUPPLY  
FROM A  
NATIVE  
HAWAIIAN  
ARTISTS' HUI  
FOR MURALS  
ON BOARD  
OF WATER  
SUPPLY  
STRUCTURES

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

Chair and Members:

Subject: Adoption of Resolution No. 998, 2025 Acceptance of Gift  
to the Board of Water Supply from a Native Hawaiian  
Artists' Hui for Murals on Board of Water Supply  
Structures

The Board of Water Supply (BWS) requests the board's acceptance of a gift in the amount of \$100,000 for murals to be painted on BWS structures located around and near the East Side of the island of O'ahu.

The applicants are applying to the Native Arts + Culture Foundation for their Transformative Change and Indigenous Arts grant. They have selected the BWS as the beneficiary due to the BWS's work on protecting our precious wai through the Red Hill Crisis. The applicants are a hui of Native Hawaiian artists led by Trinity Asing and Koloikeao Anthony who have worked with the City and County of Honolulu's Wahi Pana project.

The purpose of the mural project is to address the environmental crisis caused by leaks at the Red Hill Underground Fuel Storage Tank Facility and to honor the cultural significance that water has in Native Hawaiian life. The mural themes will highlight water as a sacred and vital element in Hawaiian culture, tell stories of environmental justice, tell stories of the cultural significance of water, and raise awareness of the challenges caused by the Red Hill fuel leaks.

There will be no costs to the BWS as the project will be fully funded through the grant. Costs to the team leading the project will include artist stipends, supplies and transportation.

Subject matter and community input will be solicited as outlined in our Mural Directive.

The BWS appreciates the consideration of the board for this important gift.

Respectfully Submitted,

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

Attachment"

**DISCUSSION:**

Kathleen Elliott-Pahinu, Information Officer, gave the report.

Board Member Lance Wilhem inquired in what areas or where the murals would be applied.

Ms. Kathleen Elliott-Pahinu replied that the BWS is looking locations in the East and Salt Lake areas. However, any decisions will be made after community outreach and will be made under the direction of the Manager and Chief Engineer.

Manager Ernest Lau added that the murals will likely be placed on BWS water tanks.

Board Member Wilhem asked, since the directive has not been approved, is it necessary for the BWS to set any rules before accepting the grant.

Manager Lau explained that the grant application does not involve the BWS. The grant application is the artist's responsibility, who will be subject to the terms and conditions of the grant. The artists' are seeking the BWS's permission to showcase their work on BWS property and discuss what is allowed.

Ms. Elliott-Pahinu said she spoke with Mr. Koloikeao Anthony and stated that the murals would be subject to the BWS's terms and conditions.

Board Member Kēhaulani Pu'u inquired if the BWS has set criteria for considering the type of artwork.

Ms. Elliott-Pahinu responded that the BWS is working on a directive that will provide details.

**MOTION  
TO APPROVE**

Lance Wilhelm and Edwin Sniffen motioned and seconded, respectively, to approve the Adoption of Resolution No. 998, 2025, Acceptance of Gifts to the Board of Water Supply from a Native Hawaiian Artists' Hui for Murals on Board of Water Supply Structures.

Ms. Cruz-Achiu conducted a roll call: Board Member Bryan Andaya, aye; Board Member Lance Wilhelm, aye; Board Member Kēhaulani Pu'u, aye; Board Member Edwin Sniffen, aye; Board Member Gene Albano, aye; and Vice Chair Jonathan Kaneshiro, aye. Ms. Cruz-Achiu announced that the motion passed with six ayes. Chair Nā'ālehu Anthony was absent.

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

**RESOLUTION NO. 998, 2025**

**ADOPTION OF RESOLUTION NO. 998, 2025, ACCEPTANCE OF GIFT TO  
THE BOARD OF WATER SUPPLY FROM A NATIVE HAWAIIAN ARTISTS' HUI  
FOR MURALS ON BOARD OF WATER SUPPLY STRUCTURES**

WHEREAS, the Board of Water Supply (BWS) has a large and complex water system that has many physical structures, including 172 reservoirs, 192 booster pump stations, and walls and fencing surrounding these facilities; and

WHEREAS, a number of these facilities are visible to the surrounding communities and are subject to graffiti and other physical and visual vandalism, and the surrounding communities express their concerns about this vandalism; and

WHEREAS, the BWS spends time cleaning up this vandalism only to have it occur repeatedly, and this time takes away from their other regular duties; and

WHEREAS, a hui of Native Hawaiian artists is applying for a grant from the Native Arts + Culture Foundation for their Transformative Change and Indigenous Arts grant, and they are requesting the BWS as their partner for this grant due to the BWS's work on protecting our precious wai through the Red Hill Crisis and the amount of this grant is for \$100,000; and

WHEREAS, the gift to the BWS is beneficial as the artwork could prevent the regular recurrence of graffiti and other vandalism on certain structures, and it will enhance and beautify each community, and there is no cost or other financial encumbrance on the BWS; now, therefore

BE IT RESOLVED that the Board of Water Supply hereby accepts the gift valued at \$100,000 and directs the Manager and Chief Engineer, or his delegate, to accept and thank the donors for their gift.

ADOPTED:

  
For **NĀ'ĀLEHU ANTHONY**  
Chair

Honolulu, Hawai'i  
April 28, 2025

ADOPTION OF RESOLUTION NO. 998, 2025, ACCEPTANCE OF GIFTS TO THE BOARD OF WATER SUPPLY FROM NATIVE HAWAIIAN ARTISTS' HUI FOR MURALS ON BOARD WATER SUPPLY STRUCTURES WAS ADOPTED ON APRIL 28, 2025			
	AYE	NO	COMMENT
NĀ'ĀLEHU ANTHONY			ABSENT
JONATHAN KANESHIRO	X		
BRYAN P. ANDAYA	X		
LANCE WILHELM	X		
KĒHAULANI PU'U	X		
EDWIN H. SNIFFEN	X		
GENE C. ALBANO	X		

ADOPTION OF RESOLUTION NO. 998, 2025, ACCEPTANCE OF GIFTS TO THE BOARD OF WATER SUPPLY FROM NATIVE HAWAIIAN ARTISTS' HUI FOR MURALS ON BOARD WATER SUPPLY STRUCTURES WAS ADOPTED ON APRIL 28, 2025			
	AYE	NO	COMMENT
NĀ'ĀLEHU ANTHONY			ABSENT
JONATHAN KANESHIRO	X		
BRYAN P. ANDAYA	X		
LANCE WILHELM	X		
KĒHAULANI PU'U	X		
EDWIN H. SNIFFEN	X		
GENE C. ALBANO	X		

## **Biographies of the Artists**

### **Trinity Asing**

Trinity Asing is a Native Hawaiian cultural advocate, artist, and project manager with a deep connection to her home and heritage. Raised in Kailua, O'ahu, her work reflects her commitment to the land, people, and traditions of Hawai'i. Trinity's passion for sustainability, cultural preservation, and community building drives her involvement in a wide range of initiatives, including art, environmental projects, and cultural education.

Her art and advocacy are shaped by her dedication to the environment, particularly the preservation of 'āina (land) and wai (water), which she sees as vital to the well-being and sovereignty of her people. Trinity collaborates with other Native Hawaiian artists to amplify cultural narratives and raise awareness of critical environmental issues, such as the water crisis caused by the Red Hill fuel leak.

### **Koloikeao Anthony**

Koloikeao Anthony grew up and still lives in Ka'a'awa, O'ahu. His mauna is Ka'a'akua, his rain is Holopali, and he is a product of his environment—not only of his 'aina hānau, but also of his lineage. Growing up in a family of genealogists, filmmakers, hula dancers, and activists, he was encouraged to figure out his own approach to telling the stories of his kaiaulu, just in his own way. As a graphic designer and muralist by trade, he uses art as his approach to making mo'olelo, working with brands like Sig Zane Designs, Shop Kinolau, and Poi Dawg to make art.

While most of his storytelling happens in the full-time design work that he does for Sig Zane, painting murals is where he finds his growing passion. Using stories of place, history, and personal connection, he believes that murals exist as the most impactful way to tell the stories of Hawaii Nei through a visual lens.

### **Luana Low**

Luana Low is an 'ōiwi artist hailing from the 'ili 'āina of Kea'ahala in Kāne'ohe, O'ahu. Her mauna is Pu'u Keahiakahoe. Her wai is ka puna 'o Kea'ahala. Her art reflects her passion for the native flora, fauna, land, and waters of Hawai'i, which she captures in enchanting detail and vivid color.

Luana's art emphasizes her intimate connections with the subjects of her paintings, evoking feelings of belonging and togetherness. Through her work, Luana aims to inspire a greater appreciation for the richness and diversity of mea 'ōiwi in all forms, encouraging others to cultivate deeper, place-based pilina with their surroundings.

In addition to being an artist, Luana has experience as an environmental conservation professional. She currently serves as program staff for a local non-profit organization that facilitates hands-on service and work-based learning opportunities for young adults in Hawai'i's green job sector. During her free time, Luana volunteers at an agroforestry farm in Waimānalo, where she cultivates lo'i kalo, maintains water sources, and outplants native plants.

### **Michael Vossen**

Michael Vossen, a Native Hawaiian photographer from Wai'anae, O'ahu, uses visual storytelling to preserve and celebrate the unique identities of kanaka 'ōiwi communities across Hawai'i. Their connection to wai, fresh water, like many contemporary 'ōiwi, is in the pursuit of regaining unmitigated access to water to build sustainable futures, revitalize pilina to 'āina, and ensure 'ōiwi communities thrive for generations to come.

### **Shandelle Nakanelua**

Shandelle Nakanelua is a Native Hawaiian graphic artist and photographer whose work celebrates the land and its people. By blending vibrant imagery with contemporary design, she weaves powerful narratives of place and identity.

"April 28, 2025

AUTHORIZING  
A PUBLIC  
HEARING TO  
CONSIDER THE  
PROPOSED  
FISCAL YEAR  
2025-2026  
OPERATING  
AND CAPITAL  
IMPROVEMENT  
PROGRAM  
BUDGET

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

Chair and Members:

Subject: Authorizing a Public Hearing to Consider the Proposed  
Fiscal Year 2025-2026 Operating and Capital Improvement  
Program Budget

We recommend that the Board authorize a public hearing to be held at 2:00 p.m. on Monday, May 27, 2025, to consider the resolution to adopt the proposed Operating and Capital Improvement Program Budget for the fiscal year beginning July 1, 2025, and ending June 30, 2026. A Budget Workshop is scheduled on Monday, May 5, 2025, at 2:00 p.m.

Attached is the draft of the "Notice of Public Hearing" to be published prior to the hearing date.

Respectfully Submitted,

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

Attachment"

DISCUSSION:

Raelynn Nakabayashi, Executive Assistant I, gave the report.

Vice Chair Kaneshiro asked if the authorization is to approve the BWS to hold a public hearing.

Ms. Raelynn Nakabayashi explained that the action taken on this item was to authorize a public hearing before the regular meeting that would be held on Tuesday, May 27, 2025.

As a new Board member, Board Member Pu'u asked when the public hearing occurs.

Manager Lau explained that on May 5, 2025, the BWS will hold a Budget Workshop, for the Board Members and the public prior to the next regular meeting. During the Budget Workshop the BWS will present the proposed Fiscal Year 2025-2026 Operating and Capital Improvement Program (CIP) budget to seek input, allow testimony, and answer any questions. The Public Hearing will be held on Tuesday, May 27, 2025 and will take place prior to the Regular Board meeting. During the public hearing, the BWS will present its budget presentation, allow public testimony, and answer any questions. Then, move into the Regular

Meeting where action will be taken to approve or not to approve the BWS Fiscal Year 2025-2026 Operating and CIP Budget.

**MOTION  
TO APPROVE**

Edwin Sniffen and Lance Wilhelm motioned and seconded, respectively, to Authorize a Public Hearing to Consider the Proposed Fiscal Year 2025-2026 Operating and Capital Improvement Program Budget.

Ms. Cruz-Achiu conducted a roll call: Board Member Bryan Andaya, aye; Board Member Lance Wilhelm, aye; Board Member Kēhaulani Pu'u, aye; Board Member Edwin Sniffen, aye; Board Member Gene Albano, aye; and Vice Chair Jonathan Kaneshiro, aye. Ms. Cruz-Achiu announced that the motion passed with six ayes. Chair Nā'ālehu Anthony was absent.

AUTHORIZING A PUBLIC HEARING TO CONSIDER THE PROPOSED FISCAL YEAR 2025-2026 OPERATING AND CAPITAL IMPROVEMENT PROGRAM BUDGET WAS APPROVED ON APRIL 28, 2025			
	AYE	NO	COMMENT
NĀ'ĀLEHU ANTHONY			ABSENT
JONATHAN KANESHIRO	X		
BRYAN P. ANDAYA	X		
LANCE WILHELM	X		
KĒHAULANI PU'U	X		
EDWIN H. SNIFFEN	X		
GENE C. ALBANO	X		

## NOTICE OF PUBLIC HEARING

NOTICE IS HEREBY GIVEN that the BOARD OF WATER SUPPLY (BWS), CITY AND COUNTY OF HONOLULU, will hold a PUBLIC HEARING in the Board Room, Public Service Building, 630 South Beretania Street, on Tuesday, May 27, 2025, at 2:00 p.m. or soon thereafter, where all interested persons shall be afforded the opportunity of being heard on the adoption of the Proposed to the Fiscal Year (FY) 2026 Operating and Capital Improvement Program Budget of the Board of Water Supply, beginning July 1, 2025, and ending June 30, 2026.

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

### TESTIMONY CAN BE SUBMITTED AS FOLLOWS:

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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, May 23, 2025, 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 Tuesday, May 27, 2025:

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

## SPECIAL REQUESTS AND ACCOMMODATIONS

If you require special assistance, an auxiliary aid or service, and/or an accommodation due to a disability to participate in this meeting (i.e., sign language interpreter; interpreter for language other than English; or wheelchair accessibility), please call (808) 748-5172 or email your request to [board@hbws.org](mailto:board@hbws.org) **at least three (3) business days prior to the meeting date**. If a response is received after the requested three (3) business days before the meeting date deadline, we will try to obtain the auxiliary aid/service or accommodation, but we cannot guarantee that request will be filled.

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

BOARD OF WATER SUPPLY  
CITY AND COUNTY OF HONOLULU

ITEM FOR INFORMATION NO. 1

"April 28, 2025

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

Joyce Lin, Civil Engineer IV, Office of the Manager and Chief Engineer,  
will give an Update on the Board of Water Supply's Response to the  
Potential Impacts of the Red Hill Fuel Contamination.

Respectfully Submitted,

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

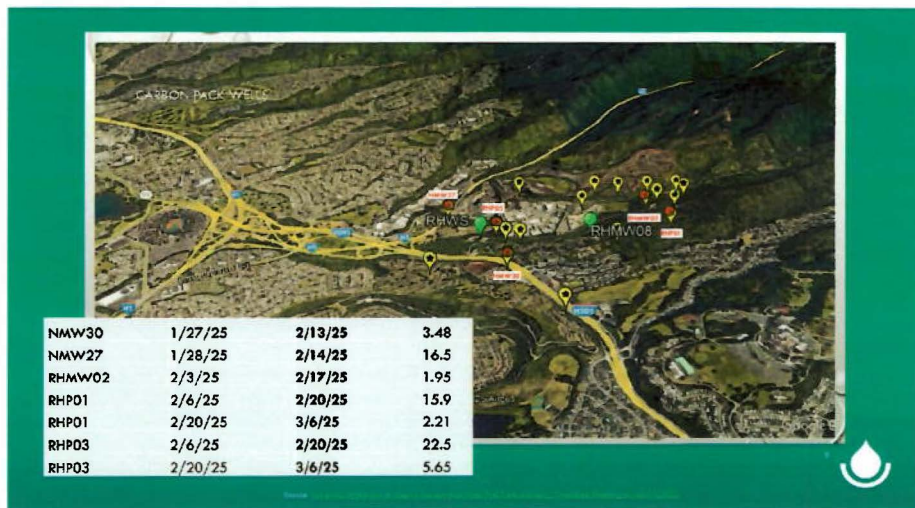
Attachment"

The foregoing was for information only.

DISCUSSION:

Joyce Lin, Civil Engineer IV, Office of the Manager and Chief Engineer,  
gave the report.

Vice Chair Jonathan Kaneshiro referred to slide eight and inquired about  
the purpose of installing small granulated activated carbon (GAC) packs  
into the monitoring wells.



Ms. Joyce Lin replied that the granulated activated carbon (GAC) pack is  
used to determine if the tracer made it through the specific monitoring

wells. However, the GAC-filled monitoring wells do not indicate when it may have come in contact with the tracer. The GAC packs primary purpose is to collect any tracer that may have passed through.

Manager Lau further explained that the GAC acts as a sponge that soaks the tracer material and then is tested. The tracer was introduced at monitoring well RHMW08 by diluting 50 pounds of rhodamine dye into the water. Test results indicated that the tracer was detected at surrounding and uphill monitoring wells such as RHMW02 and RHP01.

Vice Chair Kaneshiro asked what is the BWS's conclusion with the results provided.

Manager Lau stated that the BWS has not made any conclusions. He shared that the researchers at the University of Hawaii (UH) mentioned potential cross-contaminations during the actual water sampling and testing.

Vice Chair Kaneshiro inquired if the tracer study or the method was in question.

Manager Lau responded that the test results were questionable due to potential cross-contamination. However, it is also said that the direction and flow of water are not moving as expected from monitoring well RHMW08 toward Red Hill Shaft, where the tracer dye was introduced and expected to be detected first.

Ms. Lin also shared that there were two hypotheses when UH entered the study. One was that the tracer would be easily detected since the aquifer was closed off. However, when that did not occur, a second hypothesis was added; it could take approximately three to six months from the date of introduction on February 10, 2025, before any signs of tracer could be detected.

Vice Chair commented that the UH did not contact the BWS regarding its tracer study before the study. He inquired if the BWS and UH have since had any communication.

Ms. Lin shared that the BWS and tracer leads, Dr. Don Thomas and Dr. Toomas Parratt, have met monthly since the study began. During the latest update meeting on Thursday, April 24, 2025, researchers shared that there were no tracer detections to date.

Manager Lau commented that geology is much more complex and complicated than expected.





# APRIL 2025 RED HILL UPDATES

April 28, 2025

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

## RECENT EVENTS

3/27: Red Hill Community Representation Initiative Meeting

4/9: Fuel Tank Advisory Committee Meeting

4/10: Red Hill Remediation Roundtable

4/16: Pearl Harbor-Hickam-Kalaheo Restoration Advisory Board





## UPDATES FROM NAVY CLOSURE TASK FORCE –RED HILL

- Joint Base Pearl Harbor Hickam's Extended Drinking Water Monitoring (EDWM) program completed on March 31, 2025. The water system is returning to compliance monitoring. A closeout summary report of the EDWM is due to the regulators by Summer 2025 and should be available for public review in Fall of 2025
- Department of Health conditionally approved reactivation of Navy's Aiea-Halawa Shaft. Treatment system installed at the facility is to treat Per-and-polyfluoroalkyl substances (PFAS), polycyclic aromatic hydrocarbons (PAH), and total petroleum hydrocarbon (TPH.)



## UPDATES FROM NAVY CLOSURE TASK FORCE –RED HILL CONT.

### SLUDGE AND RESIDUAL FUEL REMOVAL



*\*As of April 1, 2025*



Sludge is removed by lowering personnel to the bottom of the tank where it is manually shoveled out and put into drums. The drums are sealed and sent off the island for disposal at a permitted waste disposal facility on the continental U.S.

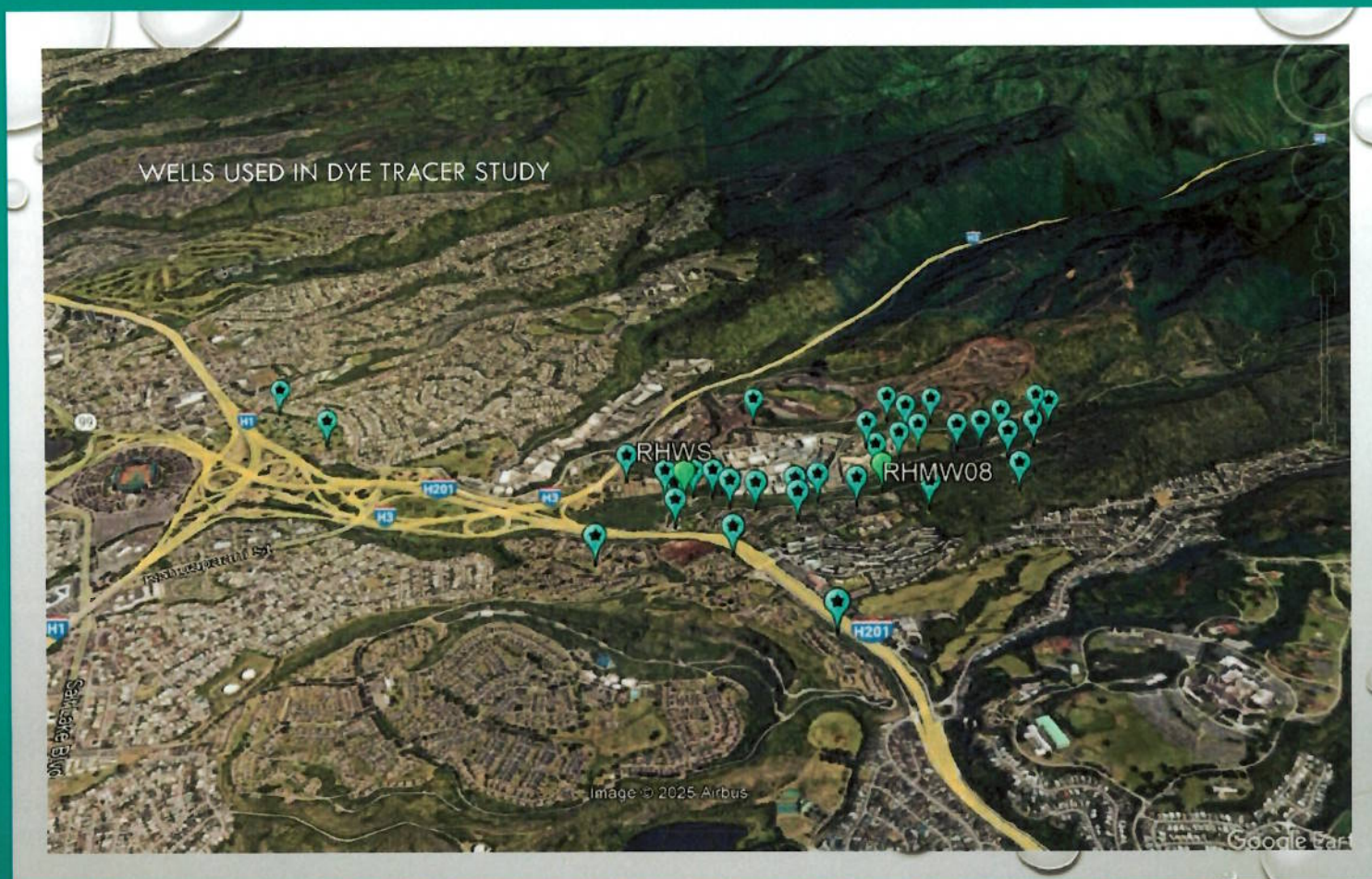
- Wash water from tank cleaning is collected in an aboveground tank, Tank 313, at Red Hill. The wash water are then transported to Pacific Commercial Services for treatment using oil-water separator and granulated active carbon filtration. The effluent is tested to meet discharge water quality requirements before being diverted into City wastewater system for further treatment at the City's Honouliuli Wastewater Treatment Plant.
- Pipeline Removal Plan is under review by regulators.
- Pipeline cleaning is on schedule to start Spring of 2025 and removal to start Fall 2025.
- Removal of all fuel pipeline is estimated to complete 2028.

Source: [Navy Closure Task Force –Red Hill](#)





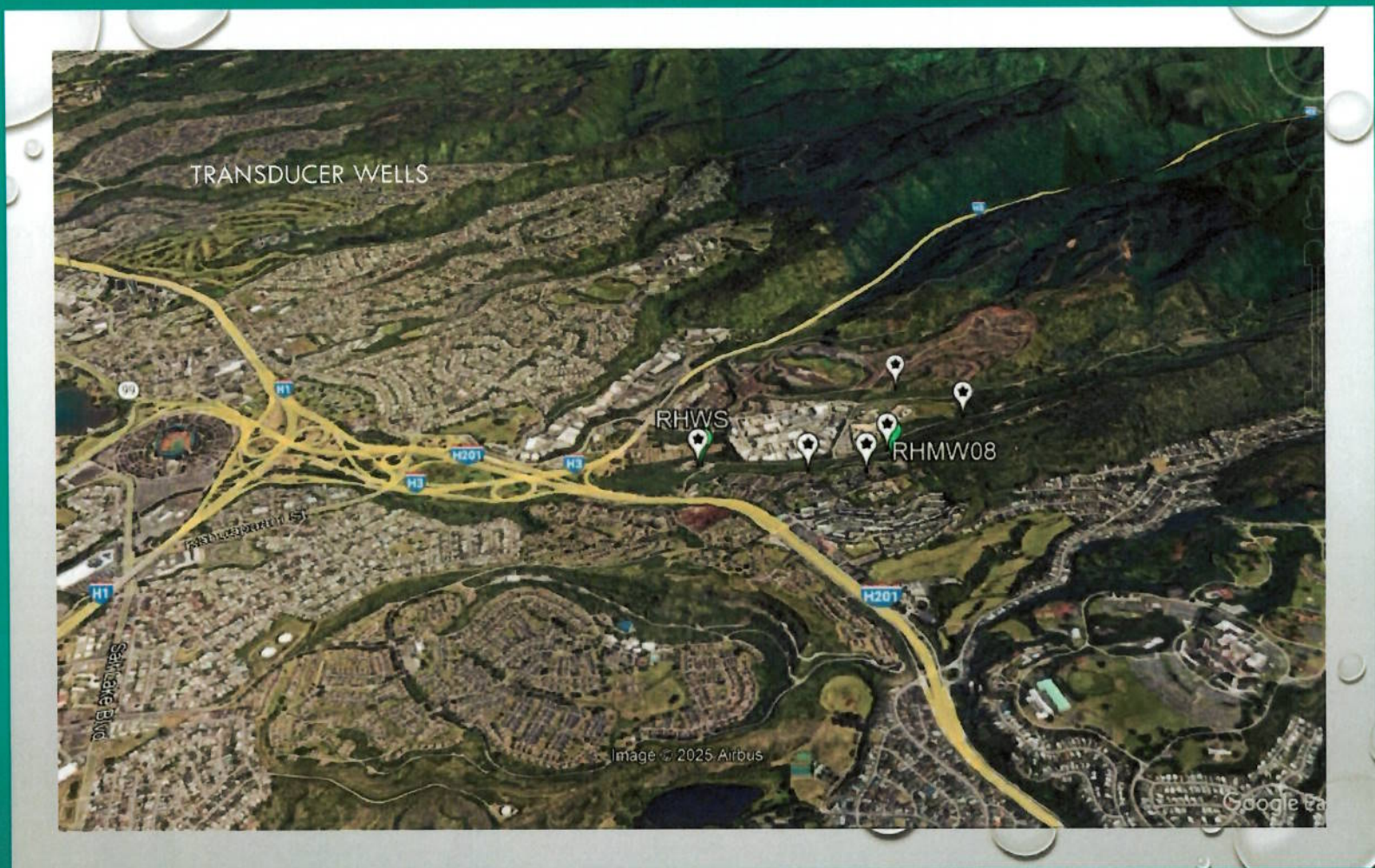
# UNIVERSITY OF HAWAI'I AT MANOA TRACER STUDY



Source: University of Hawai'i at Manoa Presentation from Fuel Tank Advisory Committee Meeting on April 9, 2025.





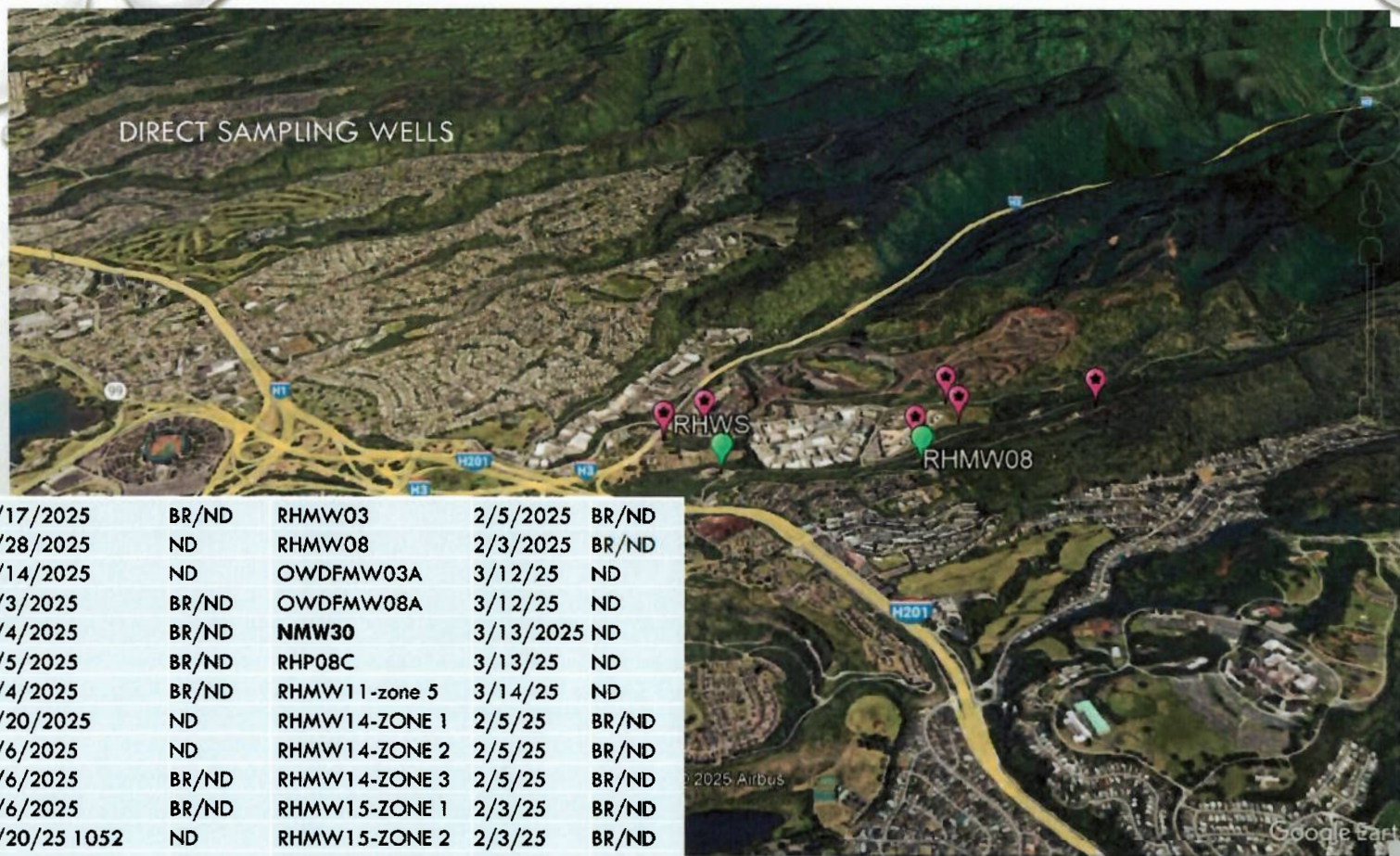


Source: University of Hawai'i at Mānoa Presentation from Fuel Tank Advisory Committee Meeting on April 9, 2025.





# DIRECT SAMPLING WELLS

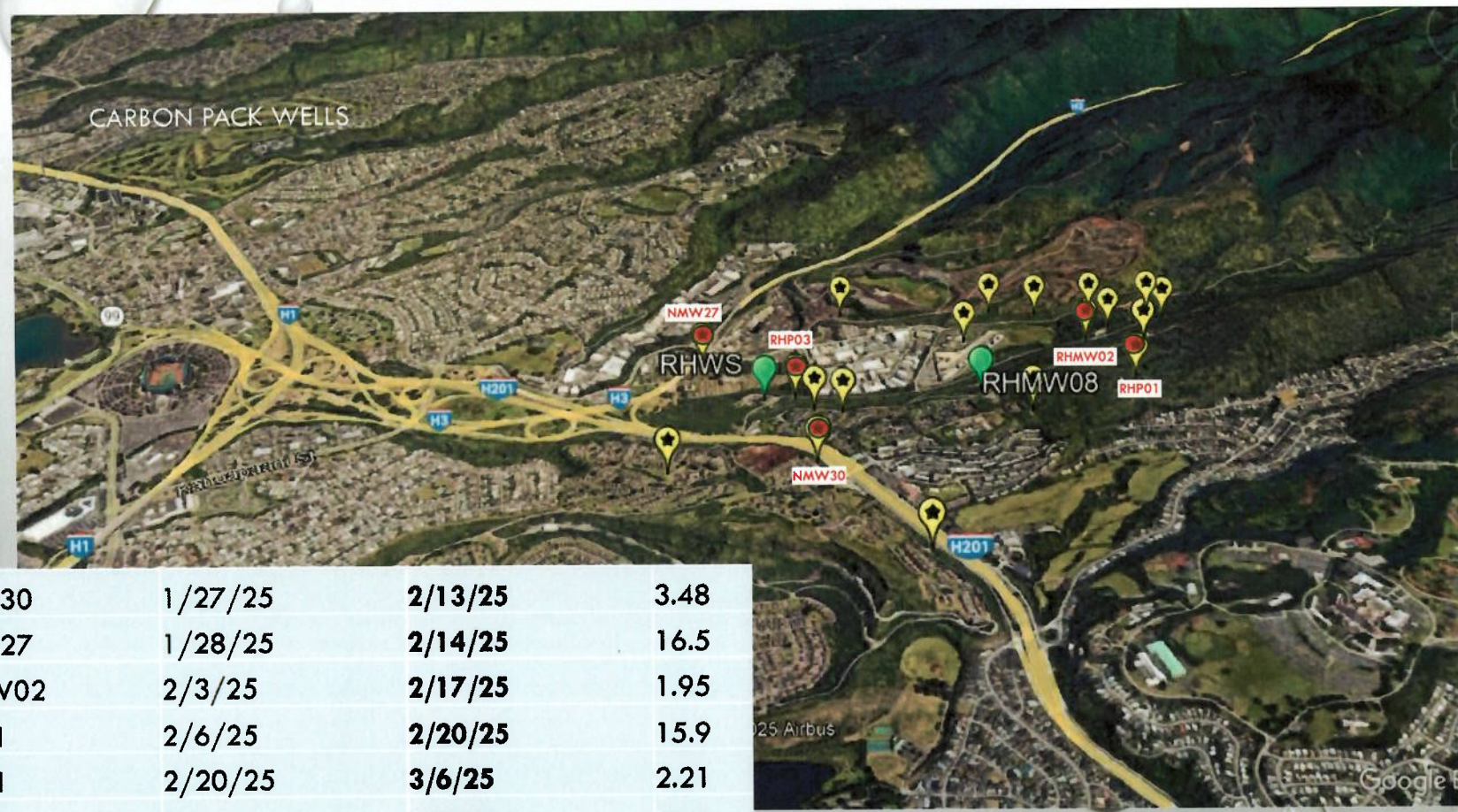


<b>NMW27</b>	2/17/2025	BR/ND	<b>RHMW03</b>	2/5/2025	BR/ND
	2/28/2025	ND	<b>RHMW08</b>	2/3/2025	BR/ND
	3/14/2025	ND	<b>OWDFMW03A</b>	3/12/25	ND
<b>RHMW02</b>	2/3/2025	BR/ND	<b>OWDFMW08A</b>	3/12/25	ND
<b>RHP06</b>	2/4/2025	BR/ND	<b>NMW30</b>	3/13/2025	ND
<b>RHP07</b>	2/5/2025	BR/ND	<b>RHP08C</b>	3/13/25	ND
<b>RHP08</b>	2/4/2025	BR/ND	<b>RHMW11-zone 5</b>	3/14/25	ND
	2/20/2025	ND	<b>RHMW14-ZONE 1</b>	2/5/25	BR/ND
	3/6/2025	ND	<b>RHMW14-ZONE 2</b>	2/5/25	BR/ND
<b>RHMW16</b>	2/6/2025	BR/ND	<b>RHMW14-ZONE 3</b>	2/5/25	BR/ND
<b>RHP01</b>	2/6/2025	BR/ND	<b>RHMW15-ZONE 1</b>	2/3/25	BR/ND
	2/20/25 1052	ND	<b>RHMW15-ZONE 2</b>	2/3/25	BR/ND
	3/6/25 1035	ND	<b>RHMW15-ZONE 3</b>	2/3/25	BR/ND
<b>RHP03</b>	2/20/25 1032	ND	<b>RHMW15-ZONE 4</b>	2/3/25	BR/ND
	3/6/25 1028	ND	<b>RHMW15-ZONE 5A</b>	2/3/25	BR/ND

Source: University of Hawai'i at Mānoa Presentation from Fuel Tank Advisory Committee Meeting on April 9, 2025.







NMW30	1/27/25	2/13/25	3.48
NMW27	1/28/25	2/14/25	16.5
RHMW02	2/3/25	2/17/25	1.95
RHP01	2/6/25	2/20/25	15.9
RHP01	2/20/25	3/6/25	2.21
RHP03	2/6/25	2/20/25	22.5
RHP03	2/20/25	3/6/25	5.65

Source: University of Hawai'i at Moano Presentation from Fuel Tank Advisory Committee Meeting on April 9, 2025.



# UNIVERSITY OF HAWAI'I AT MANOA TRACER STUDY

## REMAINING WORK FOR THIS STUDY

- THIS IS THE CURRENT STATUS OF THE DYE TRACER STUDY
- THE ONLY CONCLUSION THAT CAN BE DRAWN AT THIS TIME IS THAT THE TRAVEL TIME FROM RHMW08 TO RHS (WHILE PUMPING AT FULL CAPACITY) IS MUCH LONGER THAN WAS ANTICIPATED
- WE WILL CONTINUE TO EVALUATE THE EARLY CARBON PACK RESULTS TO DETERMINE WHETHER THEY ARE TRUE DETECTIONS OR THE RESULT OF CROSS CONTAMINATION
- WE WILL CONTINUE TO MONITOR DYE CONCENTRATIONS FOR THE REMAINING DURATION OF THE PROJECT

Source: University of Hawai'i at Manoa Presentation from Fuel Tank Advisory Committee Meeting on April 9, 2025.





## UPCOMING EVENTS

4/24: AM- Subject Matter Expert Meeting

4/24: Red Hill Community Representation Initiative Meeting #19

5/21: Navy Open House: Well(s) Reactivation





MAHALO!

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

April 2025 Red Hill Updates

ITEM FOR INFORMATION NO. 2

"April 28, 2025

RECRUITMENT  
STATUS

Chair and Members  
Board of Water Supply  
City and County of Honolulu  
Honolulu, Hawai'i 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 January 2025 to March 2025.

Respectfully Submitted,

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

Attachment"

The foregoing was for information only.

DISCUSSION:

Michele Thomas, Executive Assistant, Human Resources Office, gave the report.

Board Member Bryan Andaya inquired if the BWS was able to recruit any federal workers affected by the federal layoff.

Ms. Michele Thomas stated that there was some engagement at the April event; however, the City Department of Human Resources (DHR) handles all BWS open recruitments. Therefore, the BWS does not receive any statistics and cannot determine whether they are federal workers who have applied unless they disclose it on their application. The BWS continues to attend events to showcase the various job opportunities at the BWS.

Manager Lau shared that at the March job fair, federal workers looked at the opportunities and options available. He was told by a former federal employee that approximately 25% of his team was laid off.

Board Member Andaya commented that, from his understanding, federal and state retirements are separate. Therefore, if someone retires from the federal system, they can start earning state retirement benefits.

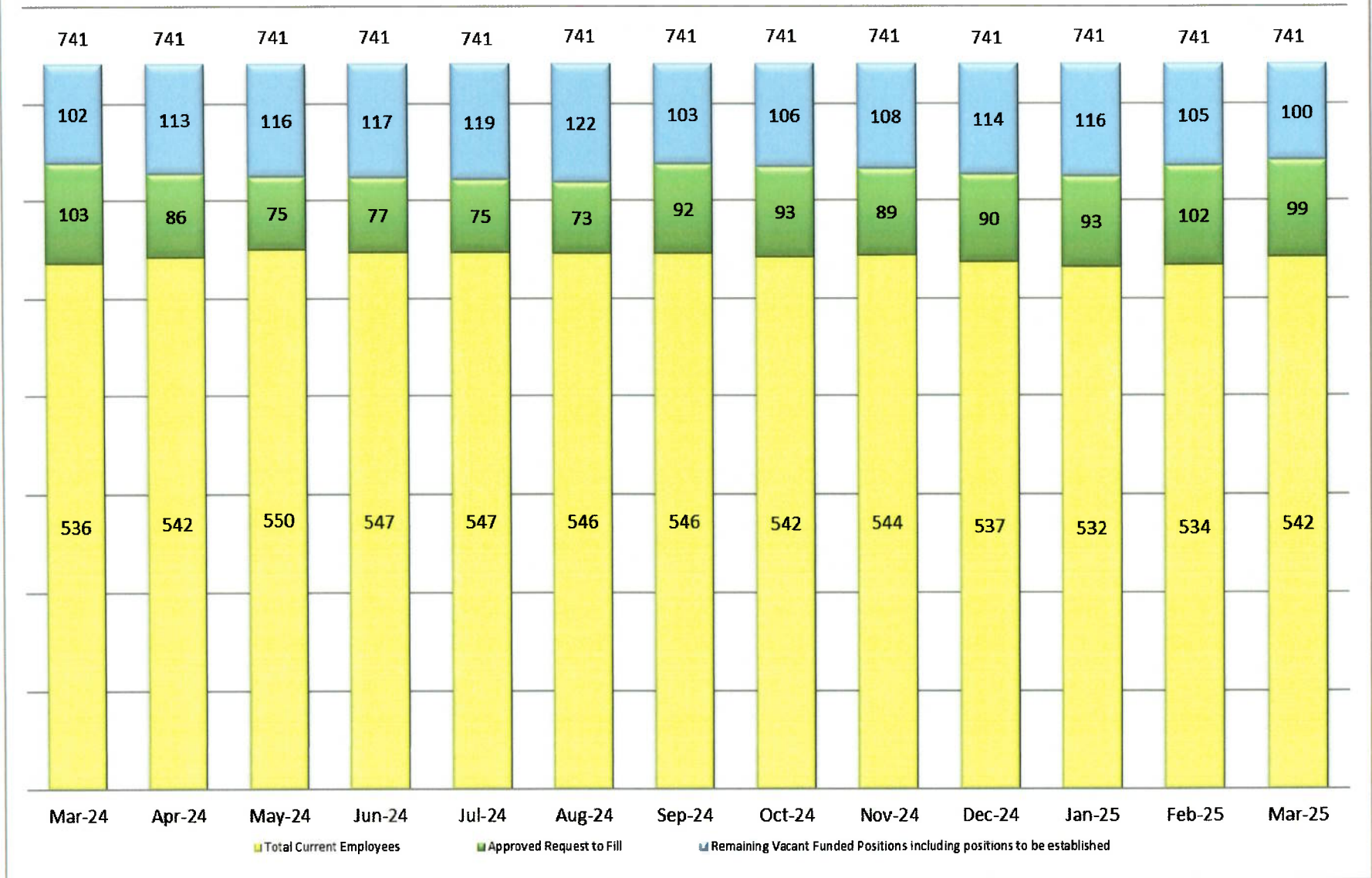
Manager Lau agreed with Board Member Andaya's comment.



Ms. Thomas shared that the City and BWS continue working on different strategies and are looking into possible compensation changes to encourage displaced federal employees and other job seekers. Board Member Andaya inquired if relocation assistance is offered to job seekers out of state.

Ms. Thomas replied that it is unethical for government agencies to offer relocation assistance except under special circumstances. However, there are specific positions that do allow for relocation assistance if it meets certain criteria. However, the BWS currently does not have any positions that meet said criteria or offer relocation assistance.

## Positions Filled March 1, 2024 through March 31, 2025



For the period Jan25-Mar25 Actions: 22 New Hires, 9 Promotions, 17 Separations, 7 Cancelled Requests

# BOARD OF WATER SUPPLY

City and County of Honolulu

## RECRUITMENT AND SEPARATION STATUS For Period January 1, 2025 to March 31, 2025

### Status of Positions Under Recruitment

	as of		
	1/31/2025	2/28/2025	3/31/2025
Pending DHR Open List (external recruitment)	37	25	25
Pending Internal recruitments	3	7	4
Pending Final Interview Questions	4	16	13
Pending Interviews with Division	28	35	40
Anticipated Starts (pre-employment clearances)	21	14	15
Cancelled Requests	0	5	2
Total Positions Under Recruitment	93	102	99

### Filled Positions

Month	Jan-25	Feb-25	Mar-25
Open list	6	8	10
Internal Promotions	2	2	1
Internal Demotions/Transfers	0	2	0
Reallocations	18	5	12

### Separations

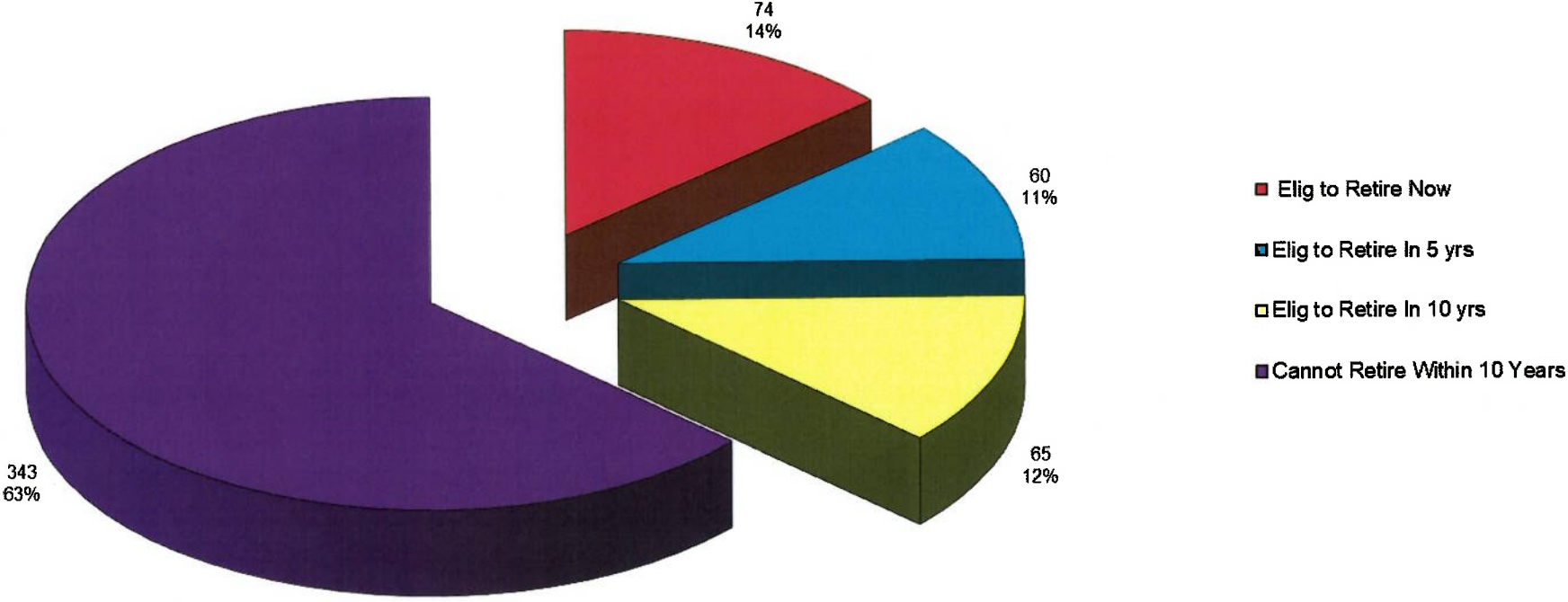
Month	Jan-25	Feb-25	Mar-25
Retire	0	0	0
Resign/Termination/Other	9	6	2

#### 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 March 31, 2025**







# RECRUITMENT STATUS UPDATE

Michele L. Thomas

April 28, 2025

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



# BWS RECRUITING ACTIVITIES



**COLLEGE OF  
ENGINEERING**  
*Connecting education to industry*





*E komo mai*

# WORKHAWAII

AmericanJobCenter<sup>®</sup>  
HAWAII

LET US GUIDE YOU TO YOUR NEXT JOB OR CAREER

## HIRING EVENT

BLAISDELL EXHIBITION HALL – 777 WARD AVE

MARCH 15, 2025

# BWS RECRUITING ACTIVITIES

## Operation Hire Hawaii Recruitment Event

Hawaii Convention Center





# BOOSTED SOCIAL MEDIA CAMPAIGN

**WE'RE HIRING!**

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Help preserve Oahu's water future



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**Tap into a career that lasts!**

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NOW**



Only online applications accepted

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or call (808) 748-5160





## OUR LEGACY CONTINUES...





# NEXT UP...

**SAVE THE DATE**

**April 30, 2025 (Wed)**

**9am-2pm**

**Neal Blaisdell Center Exhibition  
Hall**

Partnership w/ City DHR



ITEM FOR INFORMATION NO. 3

"April 28, 2025

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

Three aquifer index stations were in low groundwater condition for the production month of March 2025. Waialua is in Caution Status. Kaimuki and Punalu'u are in Alert Status. The monthly production average for March 2025 was 132.65 million gallons per day.

The Board of Water Supply rainfall index for the month of March 2025 was 44 percent of normal, with a 5-month moving average of 72 percent. As of April 1, 2025, the Hawai'i Drought Monitor shows drought conditions across the entire island of O'ahu, with abnormally dry conditions over most of the island, grading to moderate drought conditions along the leeward coast and far eastern end of the island. The National Weather Service is forecasting above-normal precipitation through June 2025.

Most monitoring wells exhibited slightly decreasing head levels for the month of March 2025. This likely reflects the past two months of significantly lower-than-average rainfall.

The National Weather Service Precipitation Summary for March 2025 notes that "March is normally one of the wettest months of the year, especially for the windward slopes of the state. It was not a normal March in 2025... Most of the (NOAA) rain gauges on O'ahu had near to below average rainfall totals... Two consecutive dry months have offset the wet conditions of late January."

Average monthly production for March 2025 is slightly higher than March 2024 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:**

Marc Chun, Civil Engineer VII, Water Resources Division, gave the report. There were no comments or discussion.

Vice Chair Kaneshiro inquired if this past month's rainfall would increase the water levels.

Mr. Marc Chun replied that O'ahu did not have much rain in March. He mentioned that the seemingly heavy rain we experienced in the past few days of April would not make much of a difference because it was sporadic.

Vice Chair Kaneshiro asked if each month's National Oceanic and Atmospheric Administration (NOAA) forecast is set at the beginning of the year.

Mr. Chun responded that the forecast for each month is predicted a few months ahead. However, NOAA representatives have said that their forecast has been skewed.

Manager Lau stated that sometimes intense rainstorms followed by complete dryness are not ideal. The best scenario would be steady drizzle and rain, where less rain would enter the ocean. The warmer temperatures also cause higher evapotranspiration rates.



**PRODUCTION, HEAD AND RAINFALL REPORT  
MONTH OF MARCH 2025**

**POTABLE**

STATION	MGD
HONOLULU (1)	
KULIOUOU	0.06
WAILUPE	0.00
AINA KOA	0.00
AINA KOA II	0.01
MANOA II	0.95
PALOLO	1.43
KAIMUKI HIGH	2.50
KAIMUKI LOW	0.74
WILDER	9.01
BERETANIA HIGH	0.68
BERETANIA LOW	1.08
KALIH HIGH	3.80
KALIH LOW	2.61
KAPALAMA	0.12
KALIH SHAFT	7.37
MOANALUA	2.81
HALAWA SHAFT	0.00
KAAMILO	0.19
KALAUAO	8.17
PUNANANI	11.33
KAAHUMANU	0.25
HECO WAIU	2.72
MANANA	0.21
WAIALAE IKI	0.56
WELLS SUBTOTAL:	56.57
MANOA TUNNEL	0.17
PALOLO TUNNEL	0.00
GRAVITY SUBTTL:	0.17
HONOLULU SUBTTL:	56.74

STATION	MGD
WINDWARD (2)	
WAIMANALO II	0.19
WAIMANALO III	0.00
KUOU I	0.97
KUOU II	0.07
KUOU III	0.75
LULUKU	0.86
HAIKU	0.48
IOLEKAA	0.00
KAHALUU	0.57
KAHANA	0.57
PUNALUU I	0.00
PUNALUU II	1.66
PUNALUU III	1.19
KALUANUI	1.30
MAAKUA	0.31
HAUULA	0.24
WELLS SUBTOTAL:	9.16
WAIM. TUNNELS I & II	0.00
WAIM. TUNNELS III&IV	0.19
WAIHEE INCL. WELLS	0.31
WAIHEE TUNNEL	4.47
LULUKU TUNNEL	0.20
HAIKU TUNNEL	0.27
KAHALUU TUNNEL	1.75
GRAVITY SUBTOTAL:	7.18
WIND. SUBTOTAL:	16.34

STATION	MGD
NORTH SHORE (3)	
KAHUKU	0.41
OPANA	0.99
WAIALEE I	0.43
WAIALEE II	0.00
HALEIWA	0.00
WAIALUA	1.28
N.SHORE SUBTOTAL:	3.12

STATION	MGD
MILILANI (4)	
MILILANI I	2.71
MILILANI II	0.00
MILILANI III	0.61
MILILANI IV	0.53
MILILANI SUBTOTAL:	3.85

STATION	MGD
WAIHAWA (5)	
WAIHAWA	1.30
WAIHAWA II	1.62
WAIHAWA SUBTOTAL:	2.92

STATION	MGD
PEARL CITY-HALAWA (6)	
HALAWA 277	0.00
HALAWA 550	0.00
AIEA	0.00
AIEA GULCH 497	0.93
AIEA GULCH 550	0.20
KAONOHI I	1.70
WAIMALU I	0.00
NEWTOWN	1.77
WAIU	1.78
PEARL CITY I	0.83
PEARL CITY II	1.05
PEARL CITY III	0.22
PEARL CITY SHAFT	0.88
PEARL CITY-HALAWA SUBTOTAL:	9.36

STATION	MGD
WAIPAHU-EWA (7)	
WAIPIO HTS.	1.79
WAIPIO HTS. I	0.73
WAIPIO HTS. II	0.18
WAIPIO HTS. III	1.28
WAIPAHU	6.64
WAIPAHU II	1.53
WAIPAHU III	3.06
WAIPAHU IV	2.81
KUNIA I	4.63
KUNIA II	1.82
KUNIA III	1.45
HOAEAE	5.53
HONOULIULI I	0.00
HONOULIULI II	5.56
MAKAKILO	0.00
WAIPAHU-EWA SUBTOTAL:	37.02

STATION	MGD
WAIANAE (8)	
MAKAHA I	0.84
MAKAHA II	0.00
MAKAHA III	0.24
MAKAHA V	0.25
MAKAHA VI	0.00
MAKAHA SHAFT	0.00
KAMAILE	0.06
WAIANAE I	0.00
WAIANAE II	0.20
WAIANAE III	0.19
WELLS SUBTOTAL:	1.78
WAI. C&C TUNNEL	1.40
WAI. PLANT. TUNNELS	0.12
GRAVITY SUBTOTAL:	1.52
WAIANAE SUBTOTAL:	3.30

**NONPOTABLE**

NONPOTABLE	MGD
KALAUAO SPRINGS	0.33
BARBERS POINT WELL	1.06
GLOVER TUNNEL NP	0.30
NONPOTABLE TOTAL:	1.69

**RECYCLED WATER (FEBRUARY 2025)**

RECYCLED WATER	MGD
HONOULIULI WRF R-1	4.37
HONOULIULI WRF RO	1.47
RECYCLED TOTAL:	5.84

**PRODUCTION, HEAD AND RAINFALL REPORT  
MONTH OF MARCH 2025**

**PRODUCTION SUMMARIES**

TOTAL WATER	MGD
PUMPAGE	123.78
GRAVITY	8.88
POTABLE TOTAL:	132.65
NONPOTABLE	1.69
RECYCLED WATER	5.84
TOTAL WATER:	140.18

CWRM PERMITTED USE AND BWS ASSESSED YIELDS FOR BWS POTABLE SOURCES				
WATER USE DISTRICTS		A	B	C
		PERMITTED USE/ BWS YLDS	MAR 2024	DIFF. A-B
1	HONOLULU	83.32	56.57	26.75
2	WINDWARD	25.02	16.34	8.68
3	NORTH SHORE	4.70	3.12	1.58
4	MILILANI	7.53	3.85	3.68
5	WAHIAWA	4.27	2.92	1.35
6	PEARL CITY-HALAWA	12.25	9.36	2.89
7	WAIPAHU-EWA	50.63	37.02	13.61
8	WAIANAE	4.34	3.30	1.04
TOTAL:		192.06	132.48	59.57

CWRM PERMITTED USE FOR BWS NONPOTABLE SOURCES				
WATER USE DISTRICTS		A	B	C
		PERMITTED USE	MAR 2024	DIFF. A-B
7	WAIPAHU-EWA (BARBERS POINT WELL)	1.00	1.06	-0.06
TOTAL:		1.00	1.06	-0.06

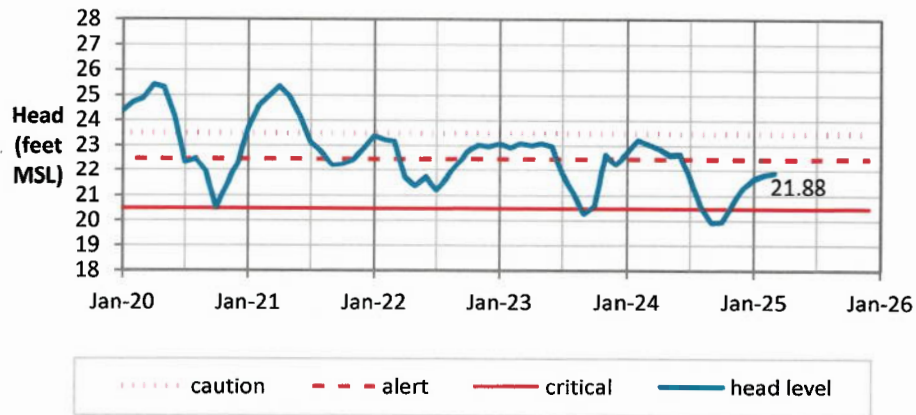
**EFFECTIVE WATER DEMAND PER DISTRICT**

IMPORT/EXPORT BETWEEN WATER USE DISTRICTS			
FROM	TO		MGD
2	1	WINDWARD EXPORT	0.10
7	8	BARBERS PT LB	5.92

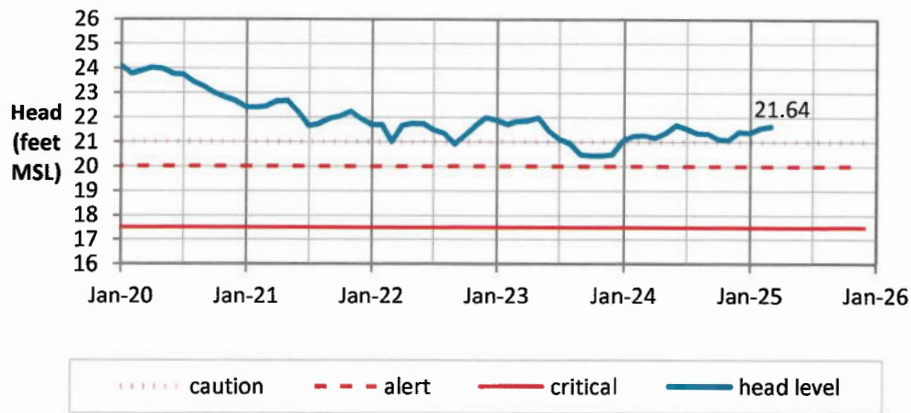
WATER USE DISTRICTS		SUBTOTAL	IMPORT	EXPORT	EFFECTIVE WATER DEMAND
1	HONOLULU	56.74	0.10	-	56.84
2	WINDWARD	16.34	-	0.10	16.24
3	NORTH SHORE	3.12	-	-	3.12
4	MILILANI	3.85	-	-	3.85
5	WAHIAWA	2.92	-	-	2.92
6	PEARL CITY-HALAWA	9.36	-	-	9.36
7	WAIPAHU-EWA	37.02	-	5.92	31.10
8	WAIANAE	3.30	5.92	-	9.22
TOTAL:		132.65	6.02	6.02	132.65

# Head Report

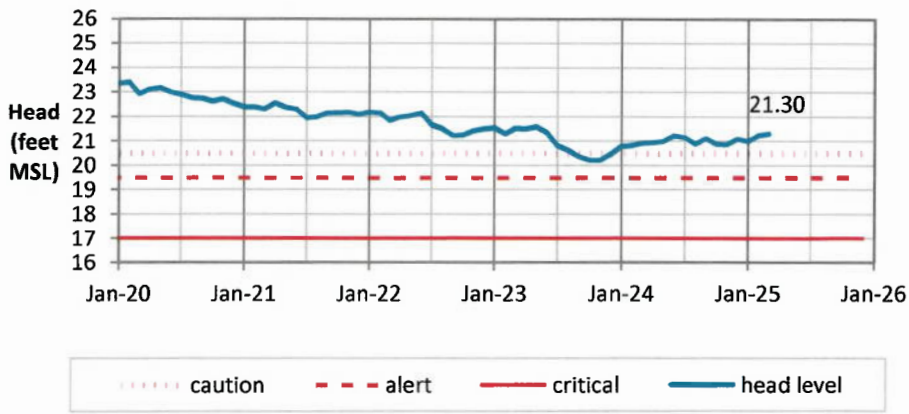
## Kaimukī 03/03/2025



## Beretania 03/01/2025

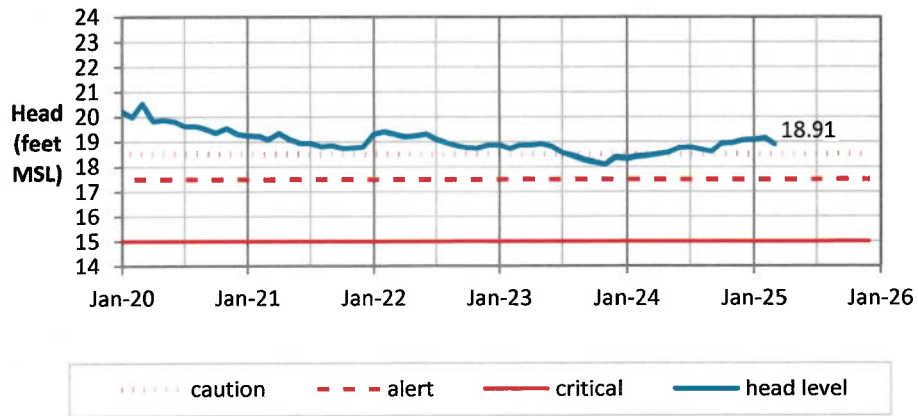


## Kalihi 03/01/2025

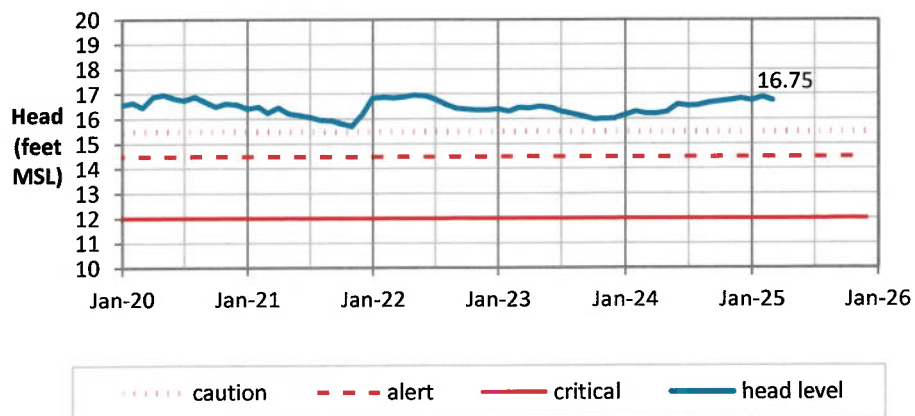


# Head Report

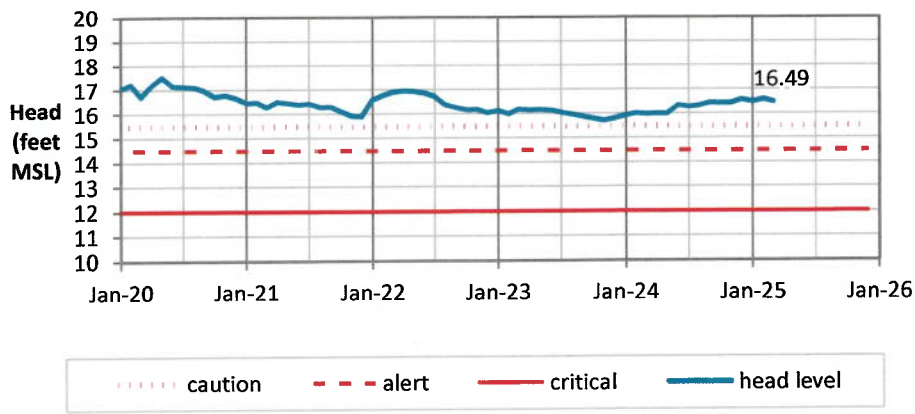
## Moanalua 03/01/2025



## Hālawā 03/01/2025



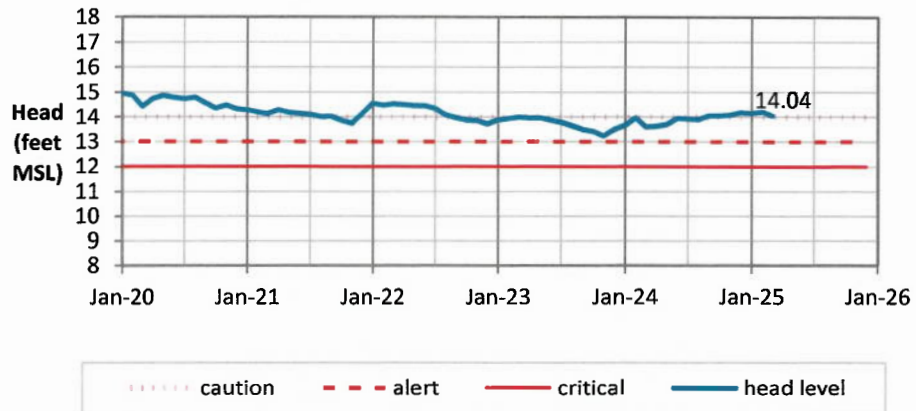
## Kalauao 03/05/2025



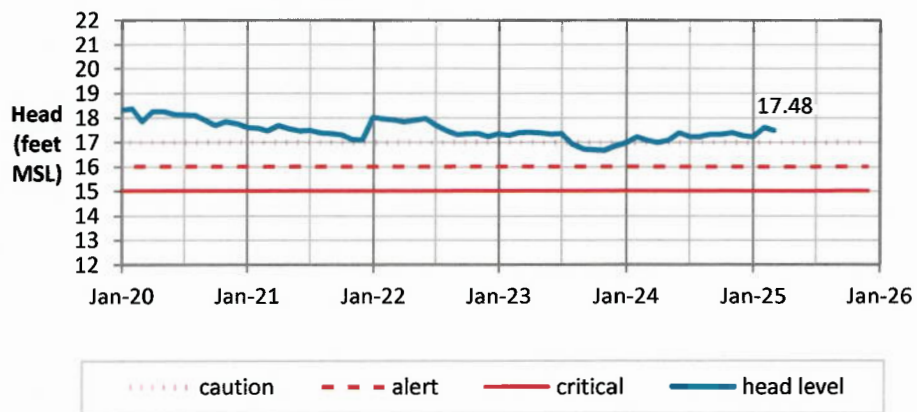


# Head Report

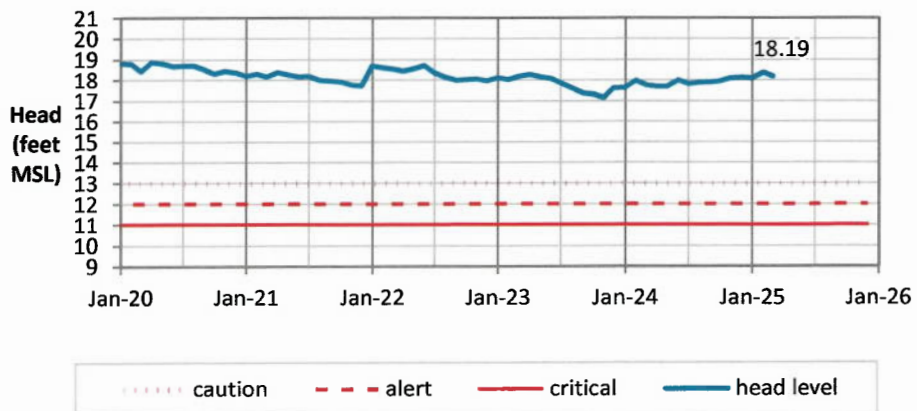
## Pearl City 03/04/2025



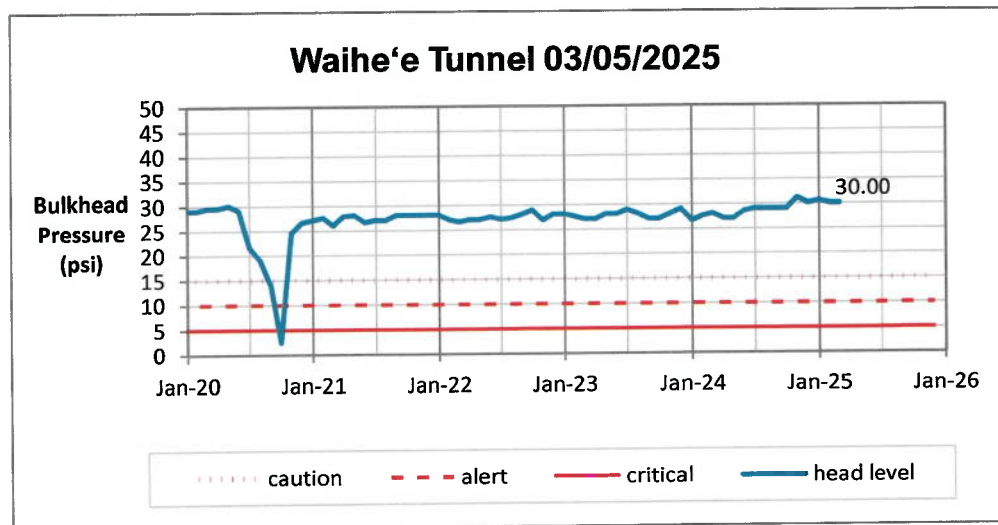
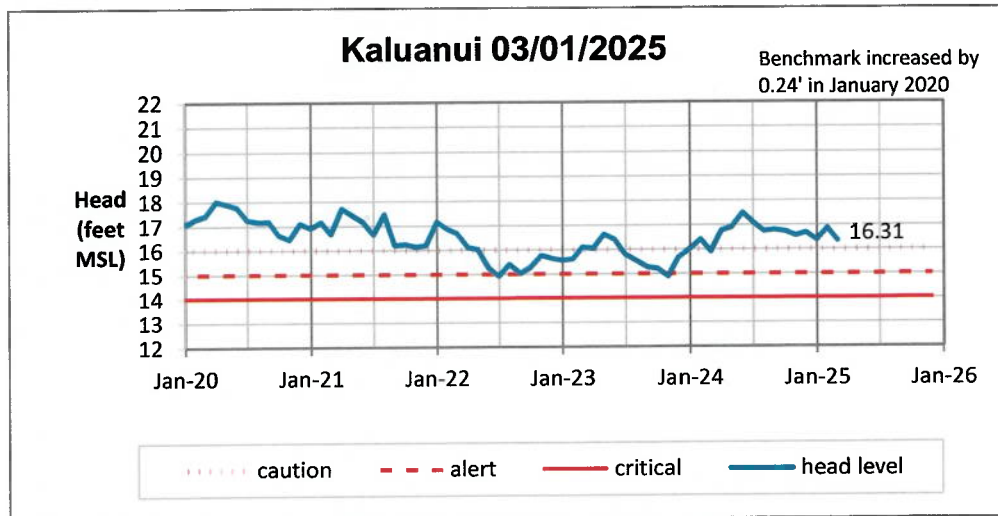
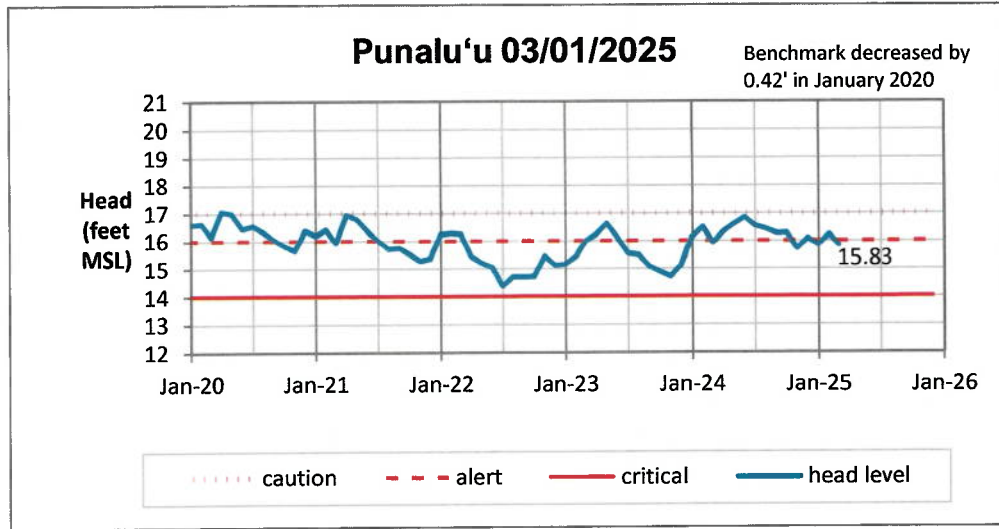
## Waipahu 03/01/2025



## Hō'ae'ae-Kunia 03/01/2025



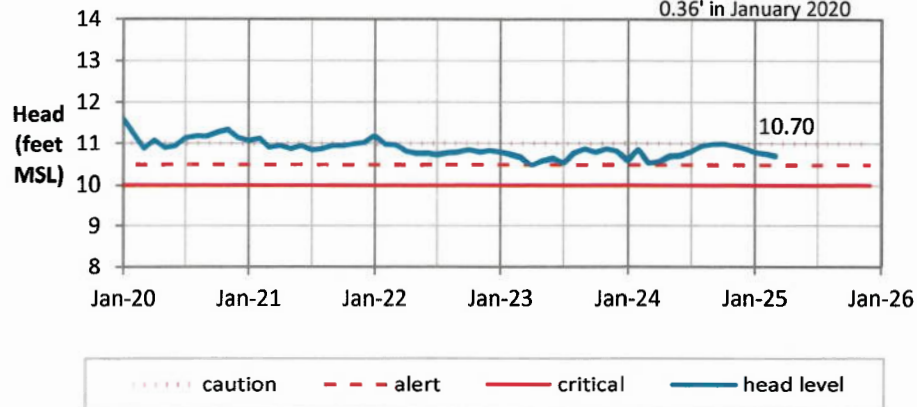
## Head Report



# Head Report

## Waialua 03/01/2025

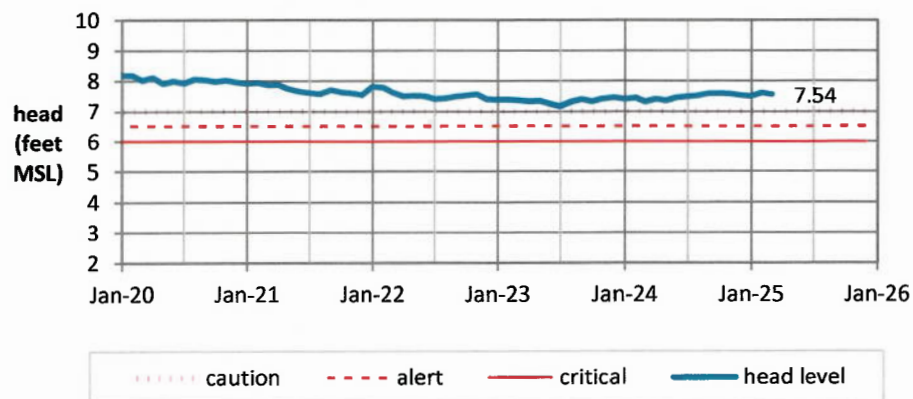
Benchmark decreased by  
0.36' in January 2020

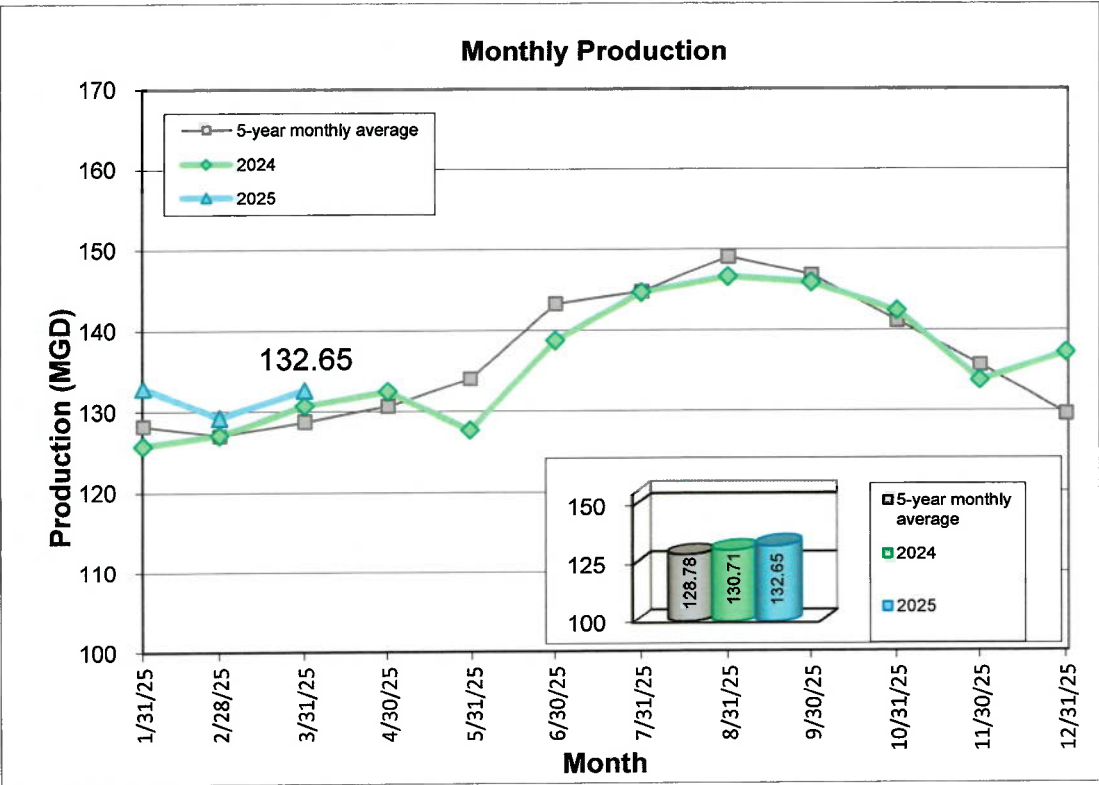
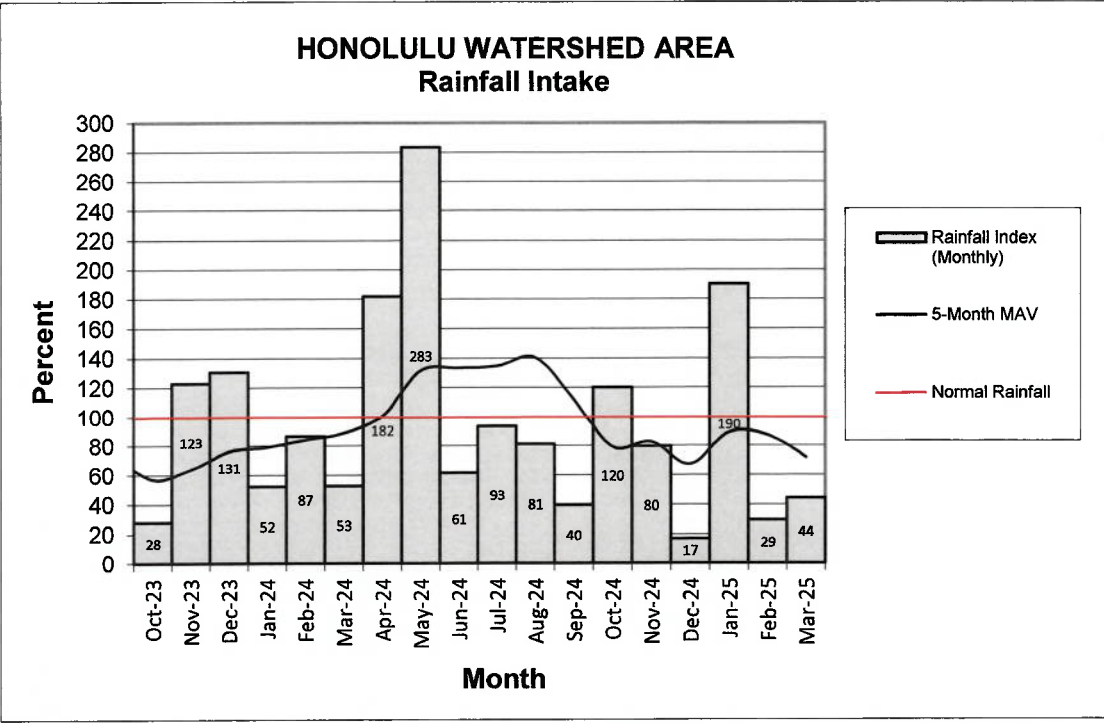


## Mākaha 03/04/2025



## Kapakahi 03/01/2025





ITEM FOR INFORMATION NO. 4

"April 28, 2025

WATER MAIN  
REPAIR  
REPORT FOR  
MARCH 2025

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 March 2025

Wayne Tello, Acting Program Administrator, Field Operations Division,  
will report on water main repair work for the month of March 2025.

Respectfully submitted,

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

Attachment"

The foregoing was for information only.

DISCUSSION:

Wayne Tello, Acting Program Administrator, Field Operations Division,  
gave the report. There were no comments or discussion.

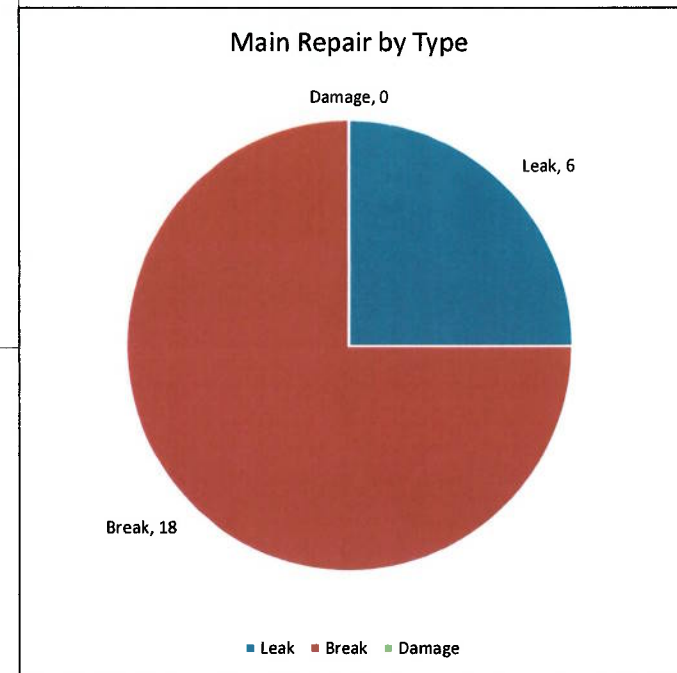
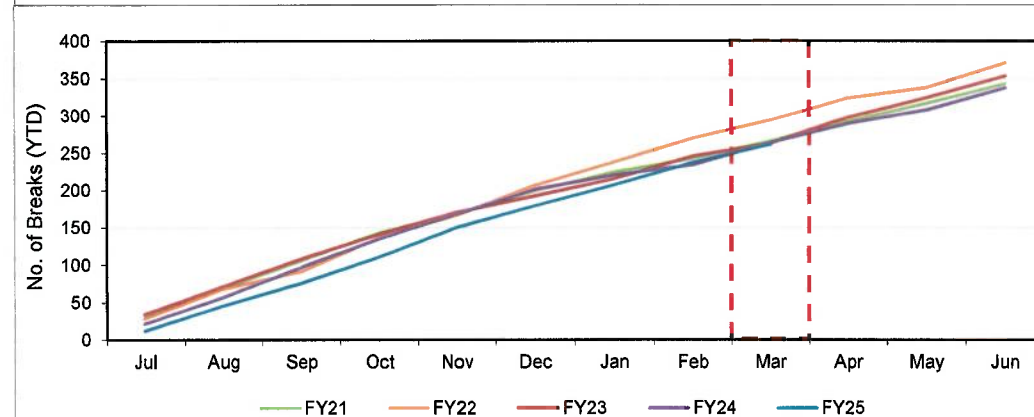
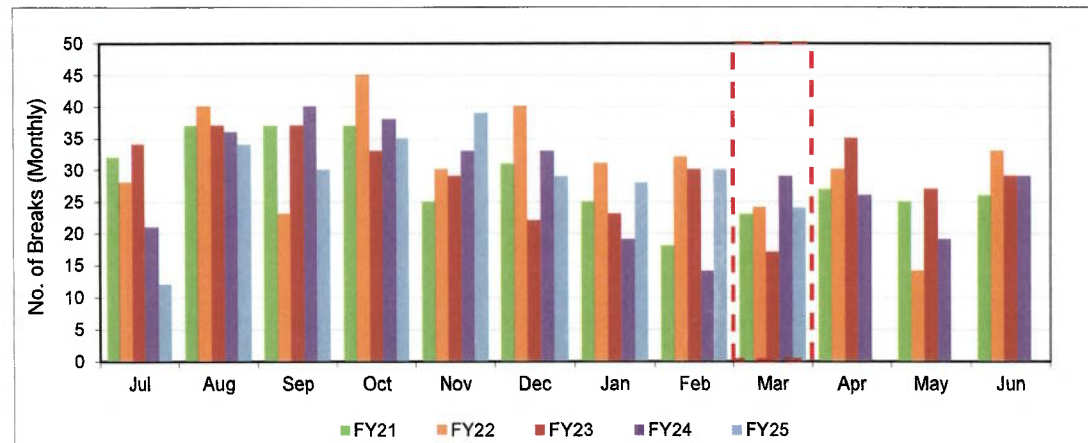
**WATER MAIN REPAIR REPORT  
for March 2025**

**Monthly Main Breaks**

FY	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
2025	12	34	30	35	39	29	28	30	24	--	--	--	261
2024	21	36	40	38	33	33	19	14	29	26	19	29	337
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

**Main Repair by Type**

Type	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
Leak	4	27	14	24	20	10	14	11	6	--	--	--	130
Break	7	7	15	10	19	19	13	19	18	--	--	--	127
Damage	1	0	1	1	0	0	1	0	0	--	--	--	4
<b>Total</b>	<b>12</b>	<b>34</b>	<b>30</b>	<b>35</b>	<b>39</b>	<b>29</b>	<b>28</b>	<b>30</b>	<b>24</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>261</b>





Date	Address	Size (In)	Pipe Type	Date	Address	Size (In)	Pipe Type
3/2/2025	48-279 Kamehameha Hwy, Kaneohe	12	AC				
3/2/2025	455 Kokea St, Honolulu	12	CI				
3/3/2025	1587 Lehia St, Honolulu	8	CI				
3/3/2025	4362 Punihi St, Honolulu	8	CI				
3/3/2025	98-340 Koauka St, Aiea	12	CI				
3/10/2025	3515 Alani Dr, Honolulu	8	CI				
3/11/2025	2197 10th Ave, Honolulu	12	CI				
3/13/2025	6077 Haleola St, Honolulu	8	DI				
3/15/2025	1994 Ala Mahamoe St, Honolulu	8	CI				
3/15/2025	46-305 Ikiiki St, Kaneohe	8	CI				
3/15/2025	958 Ala Kapua St, Honolulu	8	CI				
3/19/2025	1467 Kiukee Pl, Kailua	8	DI				
3/20/2025	98-1068 Komo Mai Dr, Aiea	12	CI				
3/22/2025	815 N Vineyard Blvd, Honolulu	12	CI				
3/23/2025	1323 Mamalu St, Honolulu	8	CI				
3/24/2025	2368 Anini Pl, Pearl City	8	CI				
3/24/2025	91-726 Poloula Pl, Ewa Beach	4	CI				
3/26/2025	4606 Aliikoa St, Honolulu	6	CI				
3/26/2025	98-645 Kaamilo St, Aiea	8	CI				
3/27/2025	98-604 Kaamilo St, Aiea	8	CI				
3/27/2025	91-471 Pupu St, Ewa Beach	8	CI				
3/27/2025	91-013 Pohakupuna Pl, Ewa Beach	8	CI				
3/28/2025	3375 Koapaka St, Honolulu	12	CI				
3/31/2025	899 Ahua St, Honolulu	12	CI				

## LEAK DETECTION for March 2025

### POIs Investigated

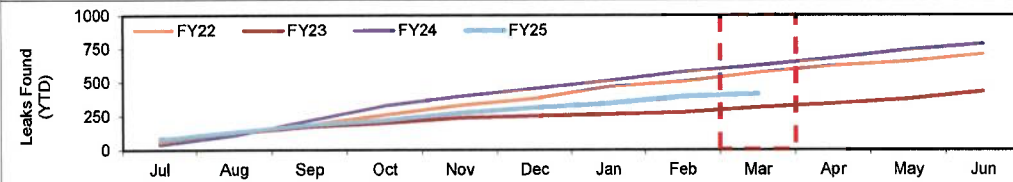
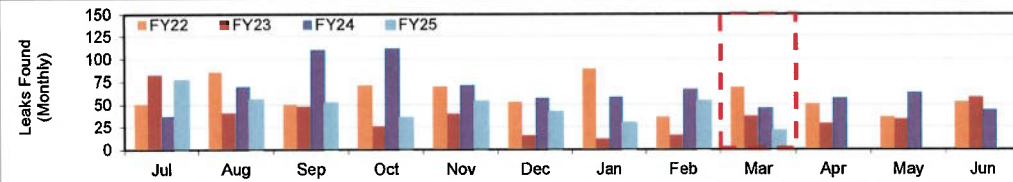
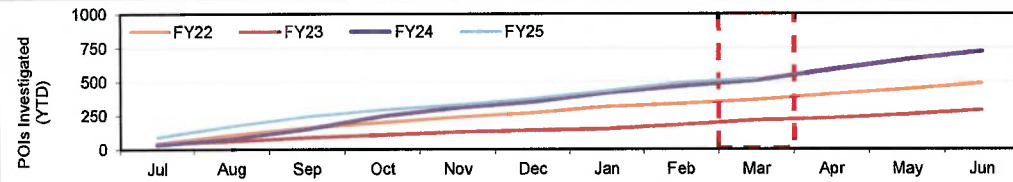
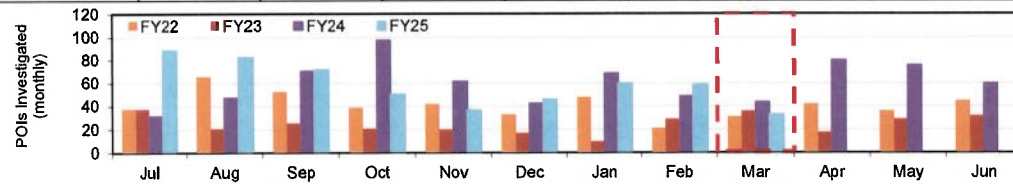
FY	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
2025	88	82	71	50	36	45	59	58	32	--	--	--	521
2024	31	47	70	97	61	42	68	48	43	79	75	59	720
2023	37	20	25	20	19	16	9	28	35	17	28	31	285
2022	37	65	52	38	41	32	47	20	30	41	35	44	482

### Leaks Found

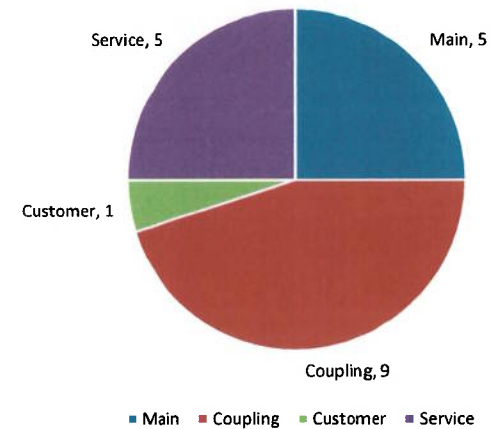
FY	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
2025	76	55	51	35	53	41	29	53	20	--	--	--	413
2024	36	69	109	111	70	56	57	66	45	56	62	43	780
2023	82	40	47	25	39	15	11	15	36	28	33	57	428
2022	50	85	49	70	69	52	88	35	68	50	35	52	703

### Satellite Leak by Type

Type	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
Main	8	6	2	3	2	5	1	3	5	--	--	--	35
Coupling	62	41	43	24	41	29	23	41	9	--	--	--	313
Customer	3	4	1	5	3	4	4	7	1	--	--	--	32
Service	3	4	5	3	7	3	1	2	5	--	--	--	33
<b>Total</b>	<b>76</b>	<b>55</b>	<b>51</b>	<b>35</b>	<b>53</b>	<b>41</b>	<b>29</b>	<b>53</b>	<b>20</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>413</b>



### Satellite Leak by Type




MOTION TO  
ADJOURN

There being no further business, Chair Anthony, at 2:46 PM, called for a motion to adjourn the Regular Session. Lance Wilhelm so moved, seconded by Edwin Sniffen, and unanimously carried.

The minutes of the Regular Meeting held on April 28, 2025, are respectfully submitted,

THE MINUTES OF THE REGULAR MEETING HELD ON APRIL 28, 2025, WERE APPROVED AT THE MAY 27, 2025, BOARD MEETING			
	AYE	NO	COMMENT
NĀ'ĀLEHU ANTHONY	X		
JONATHAN KANESHIRO	X		
BRYAN P. ANDAYA	X		
LANCE WILHELM	X		
KĒHAULANI PU'U			ABSENT
EDWIN H. SNIFFEN			ABSENT
GENE C. ALBANO	X		

  
JOY CRUZ-ACHIU

APPROVED:

  
NĀ'ĀLEHU ANTHONY  
Chair of the Board

MAY 27 2025

Date