

# BOARD OF WATER SUPPLY

CITY AND COUNTY OF HONOLULU  
630 SOUTH BERETANIA STREET  
HONOLULU, HI 96843  
[www.boardofwatersupply.com](http://www.boardofwatersupply.com)



August 17, 2021

RICK BLANGIARDI, MAYOR

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

JADE T. BUTAY, Ex-Officio  
ROGER BABCOCK, Jr., Ex-Officio

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

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

## NOTICE

The Board of Water Supply, City and County of Honolulu, will hold a Regular Meeting on Monday, August 23, 2021, at 2:00 p.m. in the Boardroom, Public Service Building, 630 South Beretania Street, Honolulu, Hawaii.

Pursuant to the Emergency Proclamation issued by Governor David Y. Ige on August 5, 2021, related to the COVID-19 emergency, in order to allow public participation in a manner consistent with social distancing practices, the following procedures are in effect for the meeting.

Some Board members may be participating in the meeting by interactive conference technology from remote locations.

### TESTIMONY

Testimony can be submitted as follows:

- Written testimony may be emailed to [board@hbws.org](mailto:board@hbws.org) or faxed to (808) 748-5079. Testimony is due by Monday, August 23, 2021, at noon. Written testimonies should include the submitter's address, email address, and phone number. Written testimony will be posted to the BWS website at [boardofwatersupply.com](http://boardofwatersupply.com).
- Mail written testimony to Board of Water Supply, 630 S. Beretania St., Honolulu, HI 96843. Testimony is due by Monday, August 23, 2021, at noon.
- On-line testimony will be accepted at [boardofwatersupply.com/testimony](http://boardofwatersupply.com/testimony). Fill out the testimony form. Due by Monday, August 23, 2021, at noon.
- Telephone testimony will be accepted during the meeting at (808) 748-6040. Callers will be placed in a queue and brought up to testify one at a time.
- In-person testimony will not be accepted.

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

### MATERIALS AVAILABLE FOR INSPECTION

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

### VIEWING THE MEETING

The meeting will be viewable via live streaming on:

(1) 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 (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.

The agenda for the August 23, 2021, 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 July 26, 2021
2. Adoption of Resolution No. 928, 2021, Raelynn Nakabayashi, 2021 Manager of the Year
3. Adoption of Resolution No. 929, 2021, Sherrilyn Lee, 2021 Employee of the Year
4. Adoption of Resolution No. 930, 2021, Arthur Aiu, 2021 Employee of the Year

**ITEMS FOR INFORMATION**

1. Summary of Revisions to the Prior Fiscal Year (FY21) Capital Improvement Program (CIP) Budget
2. Update on the Board of Water Supply Board Meeting Protocols Under Elevated COVID-19 Conditions
3. Status Update of Groundwater Levels at All Index Stations
4. Water Main Repair Report for July 2021

**EXECUTIVE SESSION**

1. Approval of the Minutes of the Executive Session Held on June 28, 2021
2. To Consult with the Board's Attorney on Questions and Issues Pertaining to the Board of Water Supply's Proposed Settlement of Claim #21-059, Relating to Property Damages at 53-408 Kamehameha Highway, Hauula, Hawaii Following a 30" Cast Iron Main Break at 53-400 Kamehameha Highway, Hauula, Hawaii on July 2, 2020 [HRS §92-5(a)(4)]
3. To Consult with the Board's Attorney on Questions and Issues Pertaining to the Board of Water Supply's Proposed Settlement of Claim #21-057, Relating to Property Damages at 2130A Kanealii Avenue, Honolulu, Hawaii Following a 8" Cast Iron Main Break at 2130 Kanealii Avenue, Honolulu, Hawaii, on March 28, 2021 [HRS §92-5(a)(4)]
4. To Consult with the Board's Attorney on Questions and Issues Pertaining to the Board's Powers, Duties, Privileges, Immunities, and Liabilities to Initiation of Legal Action Against AOA O Terrazza/Corte Bella/Las Brisas/Tiburon to Recover Delinquent Water and Sewer Service Charges [HRS §92-5(a)(4)]

## MINUTES

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

August 23, 2021

At 2:05 PM on August 23, 2021, in the Board Room of the Public Service Building at 630 South Beretania Street, Honolulu, Hawaii, Board Chair Andaya called to order the Regular Meeting.

Present: Bryan P. Andaya, Chair  
Kapua Sproat, Vice Chair  
Na'alehu Anthony, Board Member  
Jade T. Butay, Board Member, Ex-Officio

Also Present: Ernest Lau, Manager and Chief Engineer  
Ellen Kitamura, Deputy Manager and Chief Engineer  
via WebEx  
Jason Takaki, Program Administrator,  
Capital Projects Division via WebEx  
Jennifer Elflein, Program Administrator,  
Customer Care Division via WebEx  
Kathleen Elliott-Pahinui, Information Officer,  
Communications Office via WebEx  
Raelynn Nakabayashi, Executive Assistant I,  
Executive Support Office via WebEx  
Jason Nikaido, Acting Program Administrator,  
Field Operations Division via WebEx  
Joseph Cooper, Waterworks Controller,  
Finance Division via WebEx  
Michele Thomas, Executive Assistant I,  
Human Resources Office via Vimeo  
Henderson Nuuhiwa, Program Administrator,  
Information Technology Division  
via WebEx  
Erwin Kawata, Program Administrator,  
Water Quality Division via WebEx  
Nancy Matsumoto, Hydrologist-Geologist VI,  
Water Resources Division via WebEx  
Marc Chun, Assistant Program Administrator,  
Water Resources Division via WebEx  
Kevin Ihu, Program Administrator,  
Water System Operations Division  
via Vimeo  
Kathy Mitchell, Administrative Services Officer  
via WebEx  
Deanna Thyssen, Manager Secretary via WebEx  
Joy Cruz-Achiu, Board Secretary  
Steven Norstrom, Information Specialist II,  
Communications Office via WebEx

Stella Bernardo, Information Specialist II,  
Communications Office via WebEx  
Blaine Fergerstrom, Information Specialist II,  
Communications Office via WebEx

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

Absent: Ray C. Soon, Board Member  
Max J. Sword, Board Member  
Roger Babcock, Jr., Board Member, Ex-Officio

## REGULAR MEETING

Chair Bryan Andaya requested a roll call for the Regular Meeting. Chair Andaya asked each Board Member to respond verbally when their names were called. Vice Chair Kapua Sproat, aye; Board Member Na'alehu Anthony, aye; and Board Member Jade Butay, aye. He stated other Board Members would not be present for this meeting and quorum was established with the 4 board members present.

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

Chair Andaya introduced those present in the Boardroom, Manager Ernest Lau, and Board Secretary Joy Cruz-Achui. Joining from the City and County Corporation Counsel were Deputy Jeff Lau and Deputy Jessica Wong via Conference Call or WebEx.

Chair Andaya stated under the Emergency Proclamation issued by Governor David Ige on August 5, 2021, to follow public participation in a matter consistent with COVID-19 practices. The following procedures are in effect for the meeting:

Board Members are participating from remote locations via WebEx.

Chair Andaya shared the various ways to submit testimony: Written testimony may be submitted by email to [board@hbws.org](mailto:board@hbws.org), by fax to (808) 748-5079; mailed to Board of Water Supply, 630 S. Beretania St., Honolulu, HI 96843; or online at the [boardofwatersupply.com/testimony](https://boardofwatersupply.com/testimony), which were all due on Monday, August 23, 2021, at noon. However, late testimony will be accepted by email, fax, or mail. Telephone testimony is accepted by calling (808)748-6040, where you will be put in the queue and allowed to testify one at a time. Unfortunately, due to the pandemic, in-person testimony is suspended. Pursuant to HRS Section 92-7.5, Board Meeting materials are available to view on our website at [www.boardofwatersupply.com/boardmeeting](https://www.boardofwatersupply.com/boardmeeting).

Chair Andaya also announced the Board Meeting is broadcasted live on the BWS website at [www.boardofwatersupply.com/live](https://www.boardofwatersupply.com/live).

### APPROVAL OF MEETING

Approval of the Minutes of the Regular Meeting Held on July 26, 2021.

### MOTION TO APPROVE

Kapua Sproat and Jade Butay motioned and seconded, respectively, to approve the Minutes of the Regular Meeting of July 26, 2021.

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

THE MINUTES OF THE REGULAR MEETING HELD ON  
JULY 26, 2021, WERE APPROVED AT THE AUGUST  
23, 2021 BOARD MEETING

	AYE	NO	COMMENT
BRYAN P. ANDAYA	X		
KAPUA SPROAT	X		
RAY C. SOON			ABSENT
MAX J. SWORD			ABSENT
NA'ALEHU ANTHONY	X		
JADE T. BUTAY	X		
ROGER BABCOCK, JR.			ABSENT

"August 23, 2021

ADOPTION OF  
RESOLUTION  
NO. 928, 202,  
RAELYNN  
NAKABAYASHI,  
2021 MANAGER  
OF THE YEAR

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

Chair and Members:

Subject: Adoption of Resolution No. 928, 2021,  
Raelynn Nakabayashi, 2021 Manager of the Year

We are pleased to announce that the 2021 Manager of the Year for the Board of Water Supply is Ms. Raelynn Nakabayashi. She is the Executive Support Officer with the Office of the Manager and Chief Engineer.

We recommend the adoption of Resolution No. 928,2021, to honor Ms. Raelynn Nakabayashi for her outstanding service, contributions, and dedication to the Board of Water Supply.

Respectfully Submitted,

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

Attachment"

MOTION TO  
ADOPT

Kapua Sproat and Na'alehu Anthony motioned and seconded, respectively, the Adoption of Resolution No. 928, 2021, Adoption of Resolution No. 928, 2021, Raelynn Nakabayashi, 2021 Manager of the Year.

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

ADOPTION OF RESOLUTION NO. 928, 2021 – RAELYNN NAKABAYASHI, 2021 MANAGER OF THE YEAR, ADOPTED AUGUST 23, 2021			
	AYE	NO	COMMENT
BRYAN P. ANDAYA	X		
KAPUA SPROAT	X		
RAY C. SOON			ABSENT
MAX J. SWORD			ABSENT
NA'ALEHU ANTHONY	X		
JADE T. BUTAY	X		
ROGER BABCOCK JR.			ABSENT





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

**RESOLUTION NO. 928, 2021**

**RAELYNN NAKABAYASHI**  
**2021 MANAGER OF THE YEAR**

WHEREAS, RAELYNN “RAE” NAKABAYASHI, Executive Support Officer who oversees the Executive Support Office (ESO), has been selected as the Board of Water Supply (BWS) Manager of the Year for 2021; and

WHEREAS, since joining the BWS in August 2019, MS. NAKABAYASHI has managed and enhanced ESO’s management and budget, procurement, risk management, emergency preparedness, and security services to improve department operations and better safeguard employees who provide safe, dependable, and affordable water to Oahu residents; and

WHEREAS, RAELYNN NAKABAYASHI’s excellent leadership and knowledge of BWS operations, cheerful “can-do attitude, willingness to put in long hours, and commitment to quality has enabled her to work with management and staff to effectively respond to city emergencies, resolve BWS issues, fulfill organizational goals, and improve efficiencies to benefit BWS water ratepayers; and

WHEREAS, when COVID-19 struck, MS. NAKABAYASHI quickly and tirelessly worked to reduce impacts on BWS’s workforce, budget, and customer service. She helped BWS successfully: initiate a telework program; reduce costs by 5% (without adversely affecting BWS operations and ability to meet Oahu water demand); develop fiscal austerity measures to save \$14 million in FY 2021; and obtain \$915,600 in CARES Act funds to establish infection prevention measures, workplace controls, and safety improvements in the lobby to protect employees and visiting public; and

WHEREAS, RAELYNN NAKABAYASHI has proven herself to be a dedicated, diligent, and compassionate manager who leads by example, maintains a well-functioning work environment for the ESO staff, and constantly provides them with professional growth opportunities; and

WHEREAS, MS. NAKABAYASHI’s selection as the 2021 Board of Water Supply Manager of the Year and her nomination to the City Manager of the Year Recognition Ceremony has brought pride and honor to the BWS and all her family and friends; now, therefore

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

BE IT FURTHER RESOLVED that the Members of this Board express our sincere congratulations upon her selection as the Board of Water Supply Manager of the Year for 2021; and

BE IT FINALLY RESOLVED that this Resolution be presented to RAELYNN NAKABAYASHI with our warmest aloha and best wishes for all her future endeavors.



Resolution No. 928, 2021

Adopted this 23<sup>rd</sup> day of August 2021  
Board of Water Supply, Honolulu, Hawaii

BRYAN P. ANDAYA  
Chair of the Board

**DISCUSSION:**

Chair Andaya invited Raelynn Nakabayashi into the Board Room. In recognition as BWS 2021 Manager of the Year, Chair Andaya and Manager Lau presented Ms. Nakabayashi with a lei and a framed signed resolution.

Manager Ernest Lau read Resolution 928, 2021, and congratulated Ms. Nakabayashi as the 2021 Manager of the Year.

Chair Andaya congratulated Ms. Nakabayashi.

Manager Lau acknowledged and explained why Ms. Nakabayashi was so deserving of the Manager of the Year award. In March 2020 when the COVID-19 pandemic was spreading throughout the world, the BWS faced uncharted territory. With the assistance of Michele Thomas of the Human Resources Office, Ms. Nakabayashi worked tirelessly with the Office of Manager and Chief Engineer (OMCE) to develop policies and strategies to protect the BWS workforce and keep BWS employees safe from COVID-19. Manager Lau stated keeping the employees safe enabled the BWS to continue delivering safe drinking water to the community. Ms. Nakabayashi is also responsible for developing a BWS COVID-19 safety plan, which is the first plan developed for our city department. Manager Lau stated Ms. Nakabayashi continues to do what is necessary to get the job done.

Vice Chair Kapua Sproat congratulated Ms. Nakabayashi on being recognized as the 2021 Manager of the Year. She expressed her gratitude for all Ms. Nakabayashi does for the BWS, whether it be working on the major projects such as the budget or lawsuits, or attending to smaller tasks. She expressed her appreciation for Ms. Nakabayashi's professionalism and dedication.

Ms. Nakabayashi expressed her surprise at being honored as the 2021 Manager of the Year. She stated it is an honor and pleasure to be a part of the BWS.

Manager Lau and Chair Andaya congratulated Ms. Nakabayashi for the well-deserved award.

"August 23, 2021

**ADOPTION OF  
RESOLUTION  
NO. 929, 2021,  
SHERRILYN LEE  
2021 EMPLOYEE  
OF THE YEAR**

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

**Chair and Members:**

**Subject: Adoption of Resolution No. 929, 2021,  
Sherrilyn Lee, 2021 Employee of the Year**

We are pleased to announce that a 2021 Employee of the Year for the Board of Water Supply is Ms. Sherrilyn Lee. She is a Water Microbiologist III in the Water Quality Division.

We recommend the adoption of Resolution No. 929, 2021, to honor Ms. Sherrilyn Lee for her outstanding service, contributions, and dedication to the Board of Water Supply.

Respectfully Submitted,

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

Attachment"

**MOTION TO  
ADOPT**

Kapua Sproat and Jade Butay motioned and seconded, respectively, the Adoption of Resolution No. 929, 2021, Adoption of Resolution No. 929, 2021, Sherrilyn Lee, 2021 Employee of the Year.

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

ADOPTION OF RESOLUTION NO. 929, 2021, SHERRILYN LEE, 2021 EMPLOYEE OF THE YEAR, ADOPTED AUGUST 23, 2021			
	AYE	NO	COMMENT
BRYAN P. ANDAYA	X		
KAPUA SPROAT	X		
RAY C. SOON			ABSENT
MAX J. SWORD			ABSENT
NA'ALEHU ANTHONY	X		
JADE T. BUTAY	X		
ROGER BABCOCK JR.			ABSENT



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

**RESOLUTION NO. 929, 2021**

**SHERRILYN LEE**  
**2021 EMPLOYEE OF THE YEAR**

**WHEREAS**, SHERRILYN LEE, a Water Microbiologist III with the Water Quality Division, has been a dedicated and exceptional employee since joining the Board of Water Supply (BWS) on March 17, 2014, and has been selected as the Department's 2021 Employee of the Year; and

**WHEREAS**, MS. LEE's assiduous work ethic and commitment to quality enables her to deliver precise and accurate data, and avoid inconsistent results that could lead to major violations; and

**WHEREAS**, MS. LEE's commitment and outstanding efforts played an important role in the implementation of a pilot program to install sampling stations in the Kahuku/Waialeale/Waialua area that will lead to more efficient and accurate sampling in other areas of the island; and

**WHEREAS**, MS. LEE is well-respected by her colleagues and is always willing to take time out of her busy schedule to provide assistance and guidance to ensure employees are getting the attention they need to be successful in their career; and

**WHEREAS**, MS. LEE has been meticulously working on a method to identify *Pseudomonas Aeruginosa*, a bacteria found in drinking water, to help protect the public and the safety of our drinking water. Prior to this, the lab did not have a method to identify and test for this bacteria; and

**WHEREAS**, to improve her professional skills, MS. LEE has successfully completed and passed the annual Water Study Proficiency test to help maintain the lab's certification with the State of Hawaii Department of Health, and through endless hours of studying was able to obtain her Distribution System Operator 4 license; and

**WHEREAS**, MS. LEE's kindness, knowledge, and cordiality goes a long way when dealing with customers concerned about their water quality; and

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

**BE IT FURTHER RESOLVED** that the Members of this Board express to SHERRILYN LEE our sincere congratulations upon her selection as the Board of Water Supply Employee of the Year for 2021; and

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



Resolution No. 929, 2021

Adopted this 23<sup>rd</sup> day of August 2021  
Board of Water Supply, Honolulu, Hawaii

BRYAN P. ANDAYA  
Chair of the Board

DISCUSSION:

Chair Andaya invited Sherrilyn Lee into the Board Room.

In recognition as BWS 2021 Employee of the Year, Chair Andaya and Manager Lau presented Ms. Lee with a lei and a framed signed resolution.

Manager Lau and Chair Andaya congratulated Ms. Lee as Employee of the Year and for her service to the BWS.

Chair Andaya read Resolution 929, 2021.

Manager Lau stated that to be a part of the Water Quality Division takes precision, accuracy, and good quality control. This is essential to keeping water safe. Ms. Lee's commitment to that is without limit. He expressed his appreciation on behalf of the BWS customers for testing and making sure that the BWS water is safe for drinking.

Manager Lau asked Ms. Lee to explain the bacteria she has been working to identify, *Pseudomonas*.

Ms. Lee explained that *Pseudomonas* is a bacterial mostly found in biofilm but can be linked to Total Coliform and *E. coli*. She anticipates in the future this will be helpful if BWS considers the use of surface water.

Manager Lau expressed his gratitude to Ms. Lee for having the vision to look ahead.

Vice Chair Sproat thanked Ms. Lee for her hard work and attention to detail. She stated that water quality is a vital part of everyone's lives and with the efforts of Ms. Lee, the BWS can fulfill the BWS's mission of providing critical safe, and dependable water in the future. Vice Chair Sproat expressed her appreciation to Ms. Lee for making it possible to continue the BWS's mission.

Ms. Lee expressed her gratitude for the compliments and the 2021 Employee of the Year award.

Chair Andaya and Manager Lau thanked Ms. Lee and encouraged her to keep up the good work.

"August 23, 2021

**ADOPTION OF  
RESOLUTION  
NO. 930, 2021 -  
ARTHUR AIU  
2021 EMPLOYEE  
OF THE YEAR**

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

Chair and Members:

Subject: Adoption of Resolution No. 930, 2021,  
Arthur Aiu, 2021 Employee of the Year

We are pleased to announce that a 2021 Employee of the Year for the Board of Water Supply is Mr. Arthur Aiu. He is a Community Relations Specialist II in the Communications Office.

We recommend the adoption of Resolution No. 930, 2021, to honor Mr. Arthur Aiu for his outstanding service, contributions, and dedication to the Board of Water Supply.

Respectfully Submitted,

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

Attachment"

**MOTION TO  
ADOPT**

Na'alehu Anthony and Kapua Sproat motioned and seconded, respectively, the Adoption of Resolution No. 930, 2021, Adoption of Resolution No. 930, 2021 – Arthur Aiu, 2021 Employee of the Year.

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

ADOPTION OF RESOLUTION NO. 930, 2021, ARTHUR AIU, 2021 EMPLOYEE OF THE YEAR, ADOPTED AUGUST 23, 2021			
	AYE	NO	COMMENT
BRYAN P. ANDAYA	X		
KAPUA SPROAT	X		
RAY C. SOON			ABSENT
MAX J. SWORD			ABSENT
NA'ALEHU ANTHONY	X		
JADE T. BUTAY	X		
ROGER BABCOCK JR.			ABSENT



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

**RESOLUTION NO. 930, 2021**

**ARTHUR AIU  
2021 EMPLOYEE OF THE YEAR**

**WHEREAS**, ARTHUR AIU, a Community Relations Specialist II with the Communications Office, has been a dedicated and exceptional employee since joining the Board of Water Supply (BWS) in 1992, and was selected as the Department's 2021 Employee of the Year; and

**WHEREAS**, MR. AIU effectively facilitates numerous educational and outreach programs that includes facilities tours, special events, and speaking engagements that enrich the public about the value of preserving and perpetuating our limited fresh water supplies now and into the future;

**WHEREAS**, MR. AIU's successfully re-engineered the BWS's educational outreach programs into digital format to meet restrictions during the pandemic and was thus able to keep these important public service opportunities ongoing for teachers, keiki, and other community groups;

**WHEREAS**, MR. AIU provided the framework for the overarching communications plan that elegantly ties it to the BWS's Water Master Plan, incorporating the key concepts of Sustain, Capture, Treat, Move, Store, and Deliver; and

**WHEREAS**, MR. AIU works tirelessly and resourcefully to create a positive workplace and provides a sense of place by incorporating the Hawaiian culture in all that he does at the BWS; and

**WHEREAS**, ARTHUR AIU has been selected as a 2021 Board of Water Supply Employee of the Year and will go on to represent BWS in the upcoming City Employee of the Year Recognition Ceremony, bringing pride and honor to the Department, his family, and friends; now, therefore

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

**BE IT FURTHER RESOLVED** that the Members of this Board express to ARTHUR AIU our sincere congratulations upon his selection as the Board of Water Supply Employee of the Year for 2021; and

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



Resolution No. 930, 2021

Adopted this 23<sup>rd</sup> day of August 2021  
Board of Water Supply, Honolulu, Hawaii

BRYAN P. ANDAYA

Chair of the Board



**DISCUSSION:**

Board Member Na'alehu Anthony shared that when he was appointed to the BWS Board many questioned what a filmmaker or photographer would be able to offer the BWS. They were unaware that he was an intern in the BWS Communications Office under the supervision of Mr. Arthur Aiu. He expressed his delight that the 2021 Employee of the Year is Mr. Aiu. Board Member Anthony remarked that Mr. Aiu is a great individual as a person, as a Hawaiian, and someone with the spirit and work ethic that moves everyone forward. Board Member Anthony expressed his appreciation and best wishes to Mr. Aiu.

Chair Andaya commented that he learned something new about Board Member Anthony, noting that he has come full circle as now he is part of the Board of Directors at the BWS.

Manager Lau invited Mr. Aiu into the Board Room.

Vice Chair Sproat shared her fondest memories of her time at the BWS, serving her second term as a Board Member. She echoed Board Member Anthony's comments referring to her excursion to Halawa Shaft with Mr. Aiu. She commented that Mr. Aiu is the embodiment of Aloha; generous, fun, and incredibly knowledgeable. Although she has a significant background in water, she felt that on her excursion to Halawa Shaft she learned a lot from the tour with Mr. Aiu. She expressed her gratitude to Mr. Aiu for the emblematic experience. Vice Chair Sproat expressed her heartfelt congratulations, Aloha, and thanked Mr. Aiu for all he has done for the community.

In recognition as BWS 2021 Employee of the Year, Chair Andaya and Manager Lau presented Mr. Aiu with a lei and a framed signed resolution.

Chair Andaya also echoed the thoughts of the Vice Chair Sproat and Board Member Anthony and reminisced about a tour lead by Mr. Aiu. There was so much Aloha and he felt the spirit and "mana" present with Mr. Aiu's chanting and incredible knowledge of the aina and the water.

Chair Andaya read Resolution 930, 2021.

Mr. Aiu expressed his gratitude for being selected as 2021 Employee of the Year and the wonderful comments that were said. Mr. Aiu stated he was glad that he could be part of Board Member Anthony's growing coalition.

Manager Lau expressed his appreciation to Mr. Aiu, stating that it has been a privilege to work with Mr. Aiu since coming back to the BWS for almost 10 years. He shared his experience on an excursion taken recently with Mr. Aiu to Waihe'e Tunnel. Mr. Aiu had the group turn off their lights as he began to "oli" or chant, where Manager Lau said for the first time in all the times he's been to Waihe'e Tunnel, he experienced the mist, fog, gemlike droplets, and the "mana" or power in the mountains. He commented that Mr. Aiu embodies the spirit and the heart of the BWS, reminding the BWS of what the BWS stands for and how important water is. Manager Lau thanked Mr. Aiu for his dedication.



Chair Andaya congratulated Mr. Aiu for a well-deserved award as the 2021 Employee of the Year.

Chair Andaya asked Mr. Norstrom, is there was anyone to testify by telephone. Mr. Norstrom responded there were no telephone testifiers.

**ITEM FOR INFORMATION NO. 1**

"August 23, 2021

REVISIONS TO  
THE FISCAL YEAR  
2020-2021 (FY21)  
CAPITAL  
IMPROVEMENT  
PROGRAM (CIP)

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

Subject: Revisions to the Fiscal Year 2020-2021 (FY21) Capital Improvement Program (CIP)

Raelynn Nakabayashi, Executive Assistant I, Executive Support Office, will provide information on Revisions to the Fiscal Year 2020-2021 (FY21) Capital Improvement Program (CIP).

**Budget Amendment #1 – Resolution 915, 2020 (Adopted September 28, 2020)**

1. Add appropriations for the following CIP projects:

**Item No. 23A LANIKAI WATER SYSTEM IMPROVEMENTS, PART II**  
Install 16-inch mains and appurtenances along Kalaheo Avenue from Kailua Road to Lihikai Road; along Lihikai Road from Kalaheo Avenue to Kawailoa Road; and along Kawailoa Road from Lihikai Road to Popoia Road – approximately 1,450 lin. ft. Install 8-inch mains and appurtenances along Kawailoa Road from Alala Road to end; along Alala Road from Kawailoa Road to FH W02578; and along Mokolea Drive from Aalapapa Drive to TMK 4-3-004:018 – approximately 1,850 lin. ft. Install 4-inch mains and appurtenances along Kooheo Place from TMK 4-3-005:040 to end – approximately 100 lin. ft.

<u>Appropriation</u>		<u>Present</u>	<u>Proposed</u>
IMPROVEMENT FUND	CONST	0	4,200,000

**Item No. 53A KALAWAHINE 180 2.0 MG RESERVOIR**  
Construct a 2.0 MG Type I prestressed concrete reservoir (Spillway elevation = 180'), deep foundations, retaining walls, reservoir piping, and all appurtenances.

<u>Appropriation</u>		<u>Present</u>	<u>Proposed</u>
SPECIAL EXPENDABLE FUND	CONST	17,000,000	18,200,000

**Item No. 53B KALAWAHINE 180 2.0 MG RESERVOIR – PIPELINES**  
Install 24-inch water main, including appurtenances and pipe corrosion protection from Anianiku Street to Kinau Street. approx. 4,913 lin. ft.

<u>Appropriation</u>		<u>Present</u>	<u>Proposed</u>
SPECIAL EXPENDABLE FUND	CONST	0	18,200,000

Item No. 59A    MANANA CORPORATION YARD – LABORATORY AND  
CONTROL CENTER EXPANSION

This project to provide a secondary lab testing facility is necessary to enable BWS to prepare, respond, mitigate and manage its water resources and operations by expanding its laboratory testing capabilities to ensure the drinking water meets all federal and state regulations and the water is safe to drink. In addition, the provision of a back-up operations control center will enable BWS to safely control and operate its facilities in the event that the main control center is inoperable.

<u>Appropriation</u>		<u>Present</u>	<u>Proposed</u>
OPERATING FUND	CONST	0	3,000,000

2.        Delete the appropriation for the following CIP project:

Item No. 51                    HAIKU STAIRS REMOVAL

The ownership of Haiku Stairs facility has been transferred to the City and County of Honolulu. The funding for this project is no longer needed and will be deleted from the budget.

<u>Appropriation</u>		<u>Present</u>	<u>Proposed</u>
OPERATING FUND	P&E	100,000	0

3.        Increase the appropriations for the:

CONSTRUCTION COST INDEX (CCI) ADJUSTMENT ACCOUNT

With the additional funding for construction projects, a commensurate increase will be added to this account

<u>Appropriation</u>	<u>Present</u>	<u>Proposed</u>
OPERATING FUND	2,652,500	2,952,500
SPECIAL EXPENDABLE	1,700,000	3,640,000
IMPROVEMENT FUND	5,880,000	6,300,000

CONTRACT ADJUSTMENT ACCOUNT (CAA)

The CAA in the FY 2020-2021 CIP Budget did not account for the following estimated contract change orders:

Makakilo Water System Improvements Part III	\$1,500,000
Kalaeloa Desalination	500,000
Energy Savings Performance Contract	150,000
<u>Ewa Shaft</u>	<u>150,000</u>
Increase to the CAA	\$2,300,000

<u>Appropriation</u>	<u>Present</u>	<u>Proposed</u>
OPERATING FUND	15,000,000	17,300,000

The following is a summarization of the FY 2020-2021 CIP Budget Amendment No. 1:

FY 2020-2021 CIP Budget (as Adopted)	\$170,127,500
Projects – Added	25,400,000
Projects – Modified Appropriation	1,200,000
Projects – Deleted	<u>(100,000)</u>
SUB-TOTAL	\$196,627,500
Construction Cost Index Account	2,660,000
Contract Adjustment Account	<u>2,300,000</u>
FY 2020-2021 CIP Budget (as Amended)	<u>\$201,587,500</u>

**Budget Amendment #2:**

1. Reduce the appropriations for the following CIP projects:

**Item No. 1** CONSTRUCTION MANAGEMENT FOR VARIOUS BWS CONSTRUCTION PROJECTS

		<u>Appropriation</u>	
		<u>Present</u>	<u>Proposed</u>
OPERATING FUND	P&E	2,000,000	500,000

Description: Provide construction management and training services for selected BWS construction projects.

Reason: The funding for this project is being reduced in amount based on awarding only one construction management contract for the Manana supplemental lab. The balance of the funds for this project will be programmed into the Operating Fund – Contract Adjustment Account, Capital Projects Division Allocation.

**Item No. 2** PIPELINE CONDITION ASSESMENT

		<u>Appropriation</u>	
		<u>Present</u>	<u>Proposed</u>
OPERATING FUND	P&E	100,000	0

Description: Condition assessment of transmission pipelines as identified by the InfoMaster decision framework.

Reason: This appropriation was intended to fund a pilot assessment; however, the preliminary work has not been completed to the point of identifying a pilot area or technology. The funds for this project will be programmed into the Operating Fund – Contract Adjustment Account, Capital Projects Division Allocation.

**Item No. 6** WAIHEE LINE BOOSTER

		<u>Appropriation</u>	
		<u>Present</u>	<u>Proposed</u>
OPERATING FUND	CONST	3,800,000	0

Description: Remove all eight (8) booster pumps including pumps, motors, piping, valves, concrete supports, gauges, and all electrical components. Install two (2) new booster pumps and new free flow lines including piping, control valves, flow tubes, elevated steel platform, MCC, and appurtenant electrical equipment. Install new back-feed line connecting Waihee and Punaluu systems.

Reason: During design, assessment of the valves needed to isolate the station indicated that they cannot/should not be operated as there is a possibility that, due to their age, the valves may not be able to reopen once they are closed. This project will be re-budgeted in a future fiscal year subject to design adjustments. The funds for this project will be programmed into the Operating Fund – Contract Adjustment Account, Capital Projects Division Allocation.

Item No. 9 PUMP RENEWAL AND REPLACEMENT

		<u>Appropriation</u>	
		<u>Present</u>	<u>Proposed</u>
OPERATING FUND	CONST	5,500,000	2,500,000

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

Reason: This item was budgeted for pump renewal and replacement projects as they arose during the fiscal year. In FY 2021, only \$2,500,000 of pump renewal and replacement projects were identified. The remaining funds for this project will be programmed into the Operating Fund – Contract Adjustment Account, Capital Projects Division Allocation.

Item No. 12 PUMP RENEWAL AND REPLACEMENT

		<u>Appropriation</u>	
		<u>Present</u>	<u>Proposed</u>
OPERATING FUND	P&E	500,000	0

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

Reason: No projects were identified during the fiscal year to use this appropriation. The funds for this project will be programmed into the Operating Fund – Contract Adjustment Account, Capital Projects Division Allocation.

Item No. 18 KAPOLEI PARKWAY 12-INCH BLOW-OFF MAIN

		<u>Appropriation</u>	
		<u>Present</u>	<u>Proposed</u>
IMPROVEMENT FUND	CONST	1,100,000	0

Description: Install 12-inch mains and appurtenances along Kapolei Parkway, from Park Row to Kolowaka Drive - approx. 1,100 lin. ft.

Reason: Based on further consultation, the current design is inadequate in meeting the requirements of the Hawaiian Railway Society, State

Department of Transportation, and State Historic Preservation Division as the crossing at the railway tracks needs to eliminate any possible impact to the tracks. The funds for this project will be programmed into the Improvement Fund – Contract Adjustment Account, Capital Projects Division Allocation.

**Item No. 21 NEW SERVICE LATERAL INSTALLATIONS AT VARIOUS LOCATION**

		<u>Appropriation</u>	
		<u>Present</u>	<u>Proposed</u>
OPERATING FUND	CONST	1,875,000	0
	P&E	500,000	0

Description: Install new service laterals at various locations.

Reason: No projects were identified during the fiscal year to use this appropriation. The funds for this project will be programmed into the Operating Fund – Contract Adjustment Account, Capital Projects Division Allocation.

**Item No. 32 NON-POTABLE IRRIGATION CONVERSION FOR KEEHI LAGOON BEACH PARK**

		<u>Appropriation</u>	
		<u>Present</u>	<u>Proposed</u>
OPERATING FUND	P&E	100,000	0

Description: Install new irrigation meter and appurtenances along Lagoon Drive for Keehi Lagoon Beach Park. Remove existing potable irrigation meter and perform cross-connection survey of irrigation system.

Reason: The City Department of Design and Construction notified the BWS they will program this work in their own CIP, so the work will not be performed as a BWS project. The funds for this project will be programmed into the Operating Fund – Contract Adjustment Account, Capital Projects Division Allocation.

**Item No. 35 WATER MAIN ISOLATION & REPLACEMENT**

		<u>Appropriation</u>	
		<u>Present</u>	<u>Proposed</u>
OPERATING FUND	P&E	100,000	0

Description: Install and replace water mains at various locations.

Reason: No projects were identified during the fiscal year to use this appropriation. The funds for this project will be programmed into the Operating Fund – Contract Adjustment Account, Capital Projects Division Allocation.

2. Increase the CIP Contract Adjustment Account for the following funds:

	<u>Appropriation</u>	
	<u>Present</u>	<u>Proposed</u>
OPERATING FUND	17,300,000	28,775,000
IMPROVEMENT FUND	0	1,100,000

The following is a summarization of the FY 2021 CIP Budget Amendment No. 2:

FY 2021 CIP Budget (as Adopted)	\$170,127,500
FY 2021 - Amendment No. 1 (Resolution No. 915 Adopted September 28, 2020)	<u>+\$31,460,000</u>
SUBTOTAL	<u>\$201,587,500</u>
Projects – Modified Appropriations	(\$4,500,000)
Projects – Deleted	<u>(\$8,075,000)</u>
SUBTOTAL	<u>(\$12,575,000)</u>
Contract Adjustment Account	+\$12,575,000
FY 2021 CIP Budget (as Amended)	<u>\$201,587,500</u>

**Budget Amendment #3:**

1. Reduce the appropriation for the following CIP project:

**Item No. 49** Monitoring Well Assessment and Repair

	<u>Appropriation</u>	
	<u>Present</u>	<u>Proposed</u>
OPERATING FUND P&E	50,000	3,000

Description: Provide well condition assessment and associated repair services for monitor wells.

Reason: The original scope and intent of line item 49 turned out to be more complex contractually than originally envisioned. The contract was therefore not executed, however, during the fiscal year, a field situation required a small portion of the intent of the scope to clear a monitoring well of an obstruction.

2. Increase the CIP Contract Adjustment Account:

	<u>Appropriation</u>	
	<u>Present</u>	<u>Proposed</u>
OPERATING FUND	28,775,000	28,822,000

The following is a summarization of the FY 2021 CIP Budget Amendment No. 3:

FY 2021 CIP Budget (as Adopted)	\$170,127,500
FY 2021 - Amendment No. 1 (Resolution No. 915, Adopted September 28, 2020)	<u>+\$31,460,000</u>
SUBTOTAL	\$201,587,500
 FY 2021 - Amendment No. 2	
Projects – Modified Appropriations	(\$4,500,000)
FY 2021 - Amendment No. 2	
Projects – Deleted	<u>(\$8,075,000)</u>
SUBTOTAL	(\$12,575,000)
 FY 2021 - Amendment No. 2	
Contract Adjustment Account	+\$12,575,000
FY 2021 CIP Budget as of Amendment No. 2	<u>\$201,587,500</u>
FY 2021 - Amendment No. 3	
Projects – Modified Appropriations	(\$47,000)
FY 2021 - Amendment No. 3	
Contract Adjustment Account	+\$47,000
 FY 2021 CIP Budget (as Amended)	<u>\$201,587,500</u>

**Budget Amendment #4:**

1. Reduce the appropriation for the following CIP projects:

**Item No. 36** GAC Interior Corrosion Control at Various Locations

		<u>Appropriation</u>	
		<u>Present</u>	<u>Proposed</u>
OPERATING FUND	CONST	1,500,000	0

Description: Perform interior corrosion control of selected BWS GAC Facilities.

Reason: This project is being deferred to Fiscal Year 2022.

**Item No. 59** Kapolei Base Yard Facility

		<u>Appropriation</u>	
		<u>Present</u>	<u>Proposed</u>
IMPROVEMENT FUND	CONST	3,500,000	0

Description: Design-Build contract for installation of administration building.

Reason: This project is being deferred to a future fiscal year and will not be pursued as a Design-Build contract.



2. Increase the CIP Contract Adjustment Account:

	<u>Appropriation</u>	
	<u>Present</u>	<u>Proposed</u>
OPERATING FUND	28,822,000	30,322,000
IMPROVEMENT FUND	1,000,000	4,500,000

The following is a summarization of the FY 2021 CIP Budget Amendment No. 4:

FY 2021 CIP Budget (as Adopted)	\$170,127,500
FY 2021 - Amendment No. 1 (Resolution No. 915 Adopted September 28, 2020)	<u>+\$31,460,000</u>
SUBTOTAL	\$201,587,500
 FY 2021 - Amendment No. 2	
Projects – Modified Appropriations	(\$4,500,000)
Projects – Deleted	(\$8,075,000)
Contract Adjustment Account	+\$12,575,000
 FY 2021 - Amendment No. 3	
Projects – Modified Appropriations	(\$47,000)
Contract Adjustment Account	+\$47,000
 FY 2021 - Amendment No. 4 (this amendment)	
Projects – Deleted	(\$5,000,000)
Contract Adjustment Account	+\$5,000,000
 FY 2021 CIP Budget As of Amendment No. 4	<u>\$201,587,500</u>

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

Attachment"

The foregoing was for information only.

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

Chair Andaya asked if the BWS is sacrificing any projects by changing, deferring, or canceling any project listed in Budget Amendment #2.

Ms. Nakabayashi replied items listed under Budget Amendment #2 are both project deferrals and a reduction in the level of funding, commensurate to the amount required in that Fiscal Year. Regarding the deferred projects, like Pipeline Condition Assessment or Waihe'e Line Booster, they were deferred to a future year because the projects were not ready to begin. These were deferred due to the timing of the permitting or design and were not sacrificed for other projects. The Non-Potable Irrigation Conversion for Keehi Lagoon Beach Park project is being funded

by the City and County (C&C) of Honolulu, therefore funding is not needed. Projects in Budget Amendment #2 that were deferred were because the BWS was not ready to pursue the projects in FY21; the projects that were ready to proceed were contracted and our funding needs were met by balancing the funding available.

	Operating	State F's	Improvement	Total
Resolution No. 4115, 2020	99,127,000	94,200,000	281,460,000	201,587,000
Amendment #2				
#1 Construction Management for Various BWS Construction Projects	1,200,000			
#2 Pipeline Condition Assessment	-100,000			
#6 Waiabana Lake Bridge	2,800,000			
#9 Pump Renewal and Replacement	3,700,000			
#12 Pump Renewal and Replacement	300,000			
#16 Kapiolani Parkway 12 inch Sewer Off Main			1,000,000	
#21 New Service Lateral Installations at Various Locations	2,273,000			
#22 New Pipeline Acquisition Construction for Kakaia Inground Sewer Pipeline	800,000			
#33 Waiabana Lake Bridge and Replacement	-100,000			
Contract Adjustment Account	11,473,000		1,180,000	
Amendment #3				
#49 Monitoring Well Installation and Repair	47,000			
Contract Adjustment Account	47,000			
Amendment #4				
#26 GWC Station Concrete Control at Various Locations	1,200,000			
#29 Kapiolani Sewer Treatment Facility			3,500,000	
Contract Adjustment Account	1,200,000		3,500,000	
Amended Totals	99,127,000	94,200,000	281,460,000	201,587,000

Chair Andaya inquired if Lanikai Water System Improvement project listed in Budget Amendment #1 was added due to a water main break.

Manager Lau responded that the original purpose of the Lanikai Water System Improvement project is due to the frequent water mains breaks in water system. The C&C planned to construct a new roundabout and major street improvements in the area and the BWS decided to begin the Lanikai Water System Improvement project before the C&C began work. Manager Lau mentioned that although the work in Lanikai has its challenges due to traffic issues, the BWS continuously works with the community to try and mitigate the extent of the traffic impacts.

Board Member Jade Butay asked if money was not an object what would be the funding gap between projects and resources.

Ms. Nakabayashi replied that the total budget remained the same in the amount of \$201,587,500 which had been increased by \$30 million by Budget Amendment #1.

Manager Lau also replied stating that Budget Amendment #1 allowed projects to be reprogrammed in the Fiscal Year 2021 budget. He explained that when preparing the Operating and Capital Improvement Project (CIP) budget Ms. Nakabayashi identifies the total revenue for the year and sources of funding which include issuing revenue bonds or state revolving funds (SRF) loans. Manager Lau mentioned that since the pandemic the BWS has encountered higher prices for materials. If federal stimulus funds were made available, a budget amendment to increase the CIP would have been required. Manager Lau stated that the BWS operates with the funds in the adopted budget.

Ms. Nakabayashi added that in consideration of the projects that the BWS wishes to pursue, the BWS requires not only funding for the projects, but also growth in its operating resources, to reach its target of replacing 21-miles of pipeline annually. The BWS is on target to reach that goal with the water main replacement schedule, but it must fill engineer and planner positions to complete the work. The addition of funds to the CIP alone, without growth in engineering positions, would not achieve our goals.

Board Member Butay mentioned the reason he asked about money not being an object is that at times external entities do not understand the challenges facing department's ability to deliver and obstacles beyond the department's control.

Manager Lau agreed with Board Member Butay's statement. Some of the obstacles that the BWS faces are permit issues and increases in material costs. He expressed his appreciation to the Board for the provision within the resolution that gives the BWS the flexibility to fund critical projects that are ready each year.

Board Member Butay inquired if the BWS has an estimate on how much of the water mains are affected by sea-level rise.

Manager Lau responded that the BWS worked with the Water Research Foundation to develop an estimate but could not provide Board Member Butay the exact numbers at that time. He stated he would check with the Water Research Foundation project in regards to sea-level rise and report back. He mentioned that a lot of the pipelines affected by sea-level rise are along coastal highways under the jurisdiction of the Department of Transportation (DOT). The BWS will collaborate, discuss, and work with the DOT to address these issues.

Board Member Butay stated the estimate to relocate coastal highways would be approximately \$15 billion, Kamehameha Highway is in the top five.

Manager Lau agreed with Board Member Butay commenting that acquiring property and rights of way will be challenging and expensive. The BWS has pipelines suffering from corrosion throughout the windward areas, Punaluu and Kaawa that are along the coastal highways. The BWS continues to look into different alternatives and solutions, and weigh out the pros and cons of relocating, redesigning, and/or restoring the water infrastructure.

Chair Andaya asked there were any further questions. Hearing none, Chair Andaya thanked Ms. Nakabayashi for the report.





# REVISIONS TO THE FISCAL YEAR 2020- 2021 (FY21) CAPITAL IMPROVEMENT PROGRAM (CIP) BUDGET

Raelynn Nakabayashi

August 23, 2021

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



# RESOLUTION 910, 2020 (ANNUAL BUDGET)

Appropriated \$170,127,500

Operating Fund: \$63,627,500  
Improvement Fund: \$72,980,000  
Special Expendable Fund: \$33,520,000

RESOLUTION NO. 910, 2020, ADOPTING THE  
OPERATING AND CAPITAL IMPROVEMENT PROGRAM  
FOR THE FISCAL YEAR 2020-2021 AND  
APPROPRIATING FUNDS THEREFOR, ADOPTED ON  
MAY 26, 2020

	AYE	NO	COMMENT
BRYAN P. ANDAYA	X		
KAPUA SPROAT	X		
KAY C. MATSUI	X		
RAY C. SOON	X		
MAX J. SWORD	X		
ROSS S. SASAMURA	X		
JADE T. BUTAY	X		

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



# BUDGET AMENDMENT NO. 1

	Operating	Spec. Ex.	Improvement	Total
Resolution No. 910, 2020	63,627,500	72,980,000	33,520,000	170,127,500
Amendment #1 (Resolution 915, 2020)				
#23A Lanikai Water System Improvements, Part II			4,200,000	
#53A Kalawahine 180 2.0 MG Reservoir		1,200,000		
#53B Kalawahine 180 2.0 MG Reservoir - Pipelines		18,200,000		
#59A Manana Yard – Laboratory and Control Center Expansion	3,000,000			
#51 Haiku Stairs Removal	-100,000			
Construction Cost Index (CCI) Adjustment Account	300,000	1,940,000	420,000	
Contract Adjustments Account (CAA)	2,300,000			
Amended Totals:	69,127,500	94,320,000	38,140,000	201,587,500



# RESOLUTION 915, 2020 – AMENDMENT NO. 1

Appropriated \$201,587,500

Operating Fund: \$69,127,500  
Improvement Fund: \$77,600,000  
Special Expendable Fund: \$54,860,000

ADOPTION OF RESOLUTION NO. 915, 2020 AMENDING THE CAPITAL IMPROVEMENT PROGRAM BUDGET FOR THE FISCAL YEAR 2020-2021 AND APPROPRIATING FUNDS THEREFOR AND REVISION OF THE FISCAL YEAR 2020-2021 CAPITAL PROGRAM BUDGET – AMENDMENT NO. 1. WAS APPROVED AT THE SEPTEMBER 28, 2020 BOARD MEETING

	AYE	NO	ABSTAINED	COMMENT
BRYAN P. ANDAYA	X			
KAPUA SPROAT	X			
RAY C. SOON	X			
MAX J. SWORD				ABSENT
ROSS S. SASAMURA	X			
JADE T. BUTAY	X			

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





## BUDGET AMENDMENTS NO. 2 – 4

**Justification(s):** Reduce funding and delete/defer projects listed in the FY 2021 Capital Improvement Program (CIP) Budget to provide additional funding to the Contract Adjustments Account.

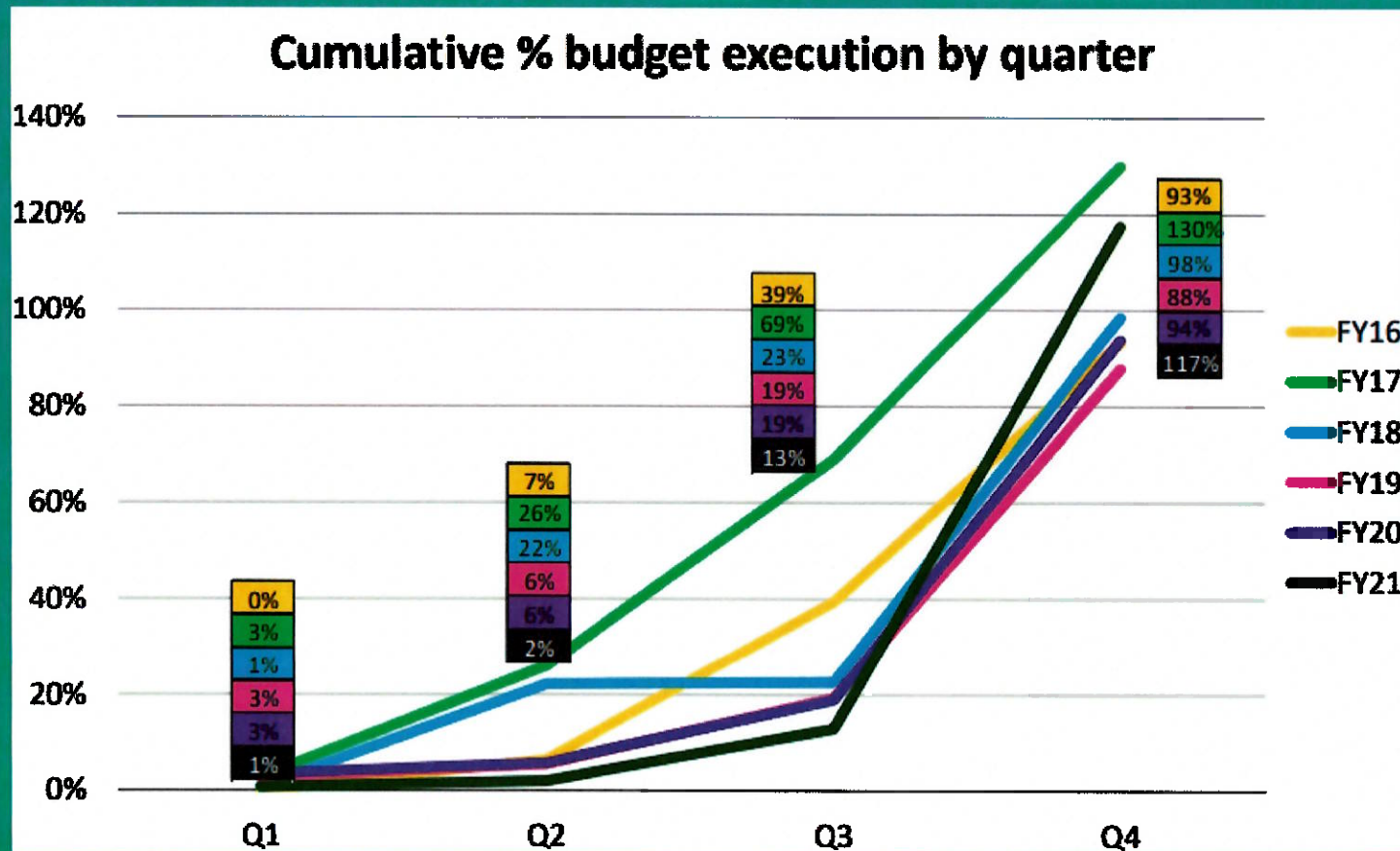
The Contract Adjustment Account is used to provide additional funding for other CIP projects and to provide funding for contract change orders to previously awarded contracts.

The recommended deferral and reprogramming of these projects will enable the department to award several projects in the FY 2021 CIP budget without causing any significant delays to the overall CIP construction schedule.





## INCREASED CAA FUNDING WAS REQUIRED TO EXECUTE THE FY2021 CIP



	Operating	Spec. Ex.	Improvement	Total
Resolution No. 915, 2020	69,127,500	94,320,000	38,140,000	201,587,500
Amendment #2				
#1 Construction Management for Various BWS Construction Projects	-1,500,000			
#2 Pipeline Condition Assessment	-100,000			
#6 Waihee Line Booster	-3,800,000			
#9 Pump Renewal and Replacement	-3,000,000			
#12 Pump Renewal and Replacement	-500,000			
#18 Kapolei Parkway 12-Inch Blow-Off Main			-1,100,000	
#21 New Service Lateral Installations at Various Locations	-2,375,000			
#32 Non-Potable Irrigation Conversion for Keehi Lagoon Beach Park	-100,000			
#35 Water Main Isolation and Replacement	-100,000			
Contract Adjustments Account	11,475,000		1,100,000	
Amendment #3				
#49 Monitoring Well Assessment and Repair	-47,000			
Contract Adjustments Account	47,000			
Amendment #4				
#36 GAC Interior Corrosion Control at Various Locations	-1,500,000			
#59 Kapolei Base Yard Facility			-3,500,000	
Contract Adjustments Account	1,500,000		3,500,000	
Amended Totals:	69,127,500	94,320,000	38,140,000	201,587,500







# Mahalo!

## BOARD OF WATER SUPPLY

Revisions to the FY2021 CIP

Raelynn Nakabayashi

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

August 23, 2021

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

ITEM FOR INFORMATION NO. 2

"August 23, 2021

UPDATE ON THE  
BOARD OF  
WATER SUPPLY  
BOARD  
MEETING  
PROTOCOLS  
UNDER ELEVATED  
COVID-19  
CONDITIONS

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

Chair and Members:

Subject: Update on the Board of Water Supply Board Meeting  
Protocols Under Elevated COVID-19 Conditions

Respectfully submitted,

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

Attachment"

The foregoing was for information only.

DISCUSSION: Chair Bryan Andaya, Manager Ernest Lau, and Deputy Manager Ellen Kitamura gave the report.

Chair Andaya opened the discussion by stating that due to the astronomical COVID-19 case counts the BWS has decided to take some action and limit the number of people in the Board Room. However, Chair Andaya wanted to allow the Board Members to discuss and give feedback.

Manager Lau asked Deputy Manager Ellen Kitamura to review the COVID-19 trend information from the DOH website.

Deputy Kitamura shared the following current data trends from the Department of Health COVID-19 website  
(<https://health.hawaii.gov/coronavirusdisease2019/current-situation-in-hawaii/>):

- Hawaii COVID-19 Case Counts
- Map of Oahu showing the geographic location of the cases in the past 14 days
- Map of Oahu showing the geographic location of the percent positive tests in the past 14 days
- Epidemic Curve (epi-curve)
- Hawaii COVID-19 Vaccine Summary

Manager Lau commented the epi curve is concerning. The contagious Delta variant continues to spread across countries and affects both the vaccinated and unvaccinated. He stressed the importance of being careful amid the pandemic. He expressed his appreciation for the vaccine that has been made available but is concerned about the efficacy of the vaccine



over time wanes, therefore feels that the COVID-19 booster shot will be an important factor as time goes on.

Chair Andaya thanked Deputy Kitamura for the statistics. He believes that everyone attending the meeting understands the seriousness of COVID-19. The reason he asked to open discussions on Board meeting protocols during the pandemic is that the time, manner, and place of Board meetings should be with the purview of Board Members. Chair Andaya agreed to the BWS policy that Manager Lau had put in place, limiting the Board room in-person capacity. However, it was important to him to allow the Board Members to share any feedback. Chair Andaya stated that there are options and alternatives to accommodate in-person Board Members and attendees for Board meetings during the pandemic. He suggested moving the meeting to a bigger room on the facility or another city facility to comply with both state and city mandates.

Manager Lau asked if Chair Andaya would like to continue the discussion in the September Board meeting to give the opportunity to other Board Members who were not in attendance.

Chair Andaya agreed to include Update on the Board of Water Supply Board Meeting Protocols Under Elevated COVID-19 Conditions on the September agenda.

Manager Lau explained that the BWS has been working on minimizing the amount of BWS staff in the Board room to allow more Board Members to attend in person. The BWS is also looking into using a bigger room such as the Engineering Conference room on campus that will allow board meetings to be conducted in-person, remotely, and permit the public to view the live stream of the meeting.

Vice Chair Sproat expressed her appreciation to everyone who has helped to make Board meetings accessible. The BWS has led the way to safely allow public participation. She recalls that before the pandemic the BWS began offering the public the opportunity to testify remotely. Vice Chair Sproat thanked Manager Lau, Ms. Nakabayashi, and everyone that make it possible for the BWS to conduct public government business while still allowing the community and rate payers to participate.

Vice Chair Sproat shared her perspective as a Board Member and as a mother. She is grateful that joining meetings online is an available option because her children are ineligible for the vaccine. Therefore, her family is being especially cautious, given the impact on native Hawaiians. Vice Chair Sproat stated she understood the diversity of perspectives on the Board but due to the severity of the pandemic, she would prefer to have the option to join Board meetings remotely.

Vice Chair Sproat requested that in the September Board meeting that the BWS staff be given the opportunity to share their concerns or issues during

this pandemic. She expressed her gratitude to all the frontline workers that assist in preparing for a Board meeting and would like feedback.

Board Member Anthony agreed with Vice Chair Sproat's comment regarding family, which he felt is important to recognize due to different risks factors in each family. As part of the COVID-19 Pau campaign and working to track information, some of the information that Board Member Anthony has learned is people's ability to be comfortable in the space provided and the environment which calls for little changes such as the numbers of participants. He applauded and thanked the BWS for how well Board meetings are conducted remotely and in person.

Board Member Anthony commented regardless of which platform the BWS uses it's important to stay connected with the public and encourage public input without prejudice and time restraint. He stated that the BWS must try as much as possible to stay engaged with staff and the community, and continue the good work that the BWS has been doing throughout the years.

Board Member Butay stated that he serves on over 30 Boards and Commissions due to his position. Therefore, appreciates being given the option to join meetings virtually. He expressed his concern in regards to the pandemic and appreciated the option to hold online Board meetings.

Vice Chair Sproat suggested looking into training opportunities that could assist participants to get the best experience possible.

Board Member Anthony mentioned checking with participants to see if proper equipment is available. He commented that having proper equipment such as hearing/speaking devices and lighting could help with the experience. Board Member Anthony offered to share virtual best practices and assist with media.

Manager Lau accepted Board Member Anthony's offer and thanked Vice Chair Sproat and Board Member Anthony for their suggestions.

Chair Andaya thanked all the Board Members for their feedback and offering their expertise. He stated that the discussion will continue when all Board Members are present where a decision can be made.

ITEM FOR INFORMATION NO. 3

"August 23, 2021

STATUS  
UPDATE OF  
GROUNDWATER  
LEVELS AT ALL  
INDEX STATIONS

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

Chair and Members:

Subject: Status Update of Groundwater Levels at All Index Stations

There were three aquifer index stations in low groundwater condition for the production month of July 2021. Kaimuki and Waialua are in Caution Status. Punaluu is in Alert Status. The monthly production average for July 2021 was 150.86 million gallons per day.

The Board of Water Supply rainfall index for the month of July 2021 was 69 percent of normal, with a 5-month moving average of 88 percent. As of August 3, 2021, the Hawaii Drought Monitor showed abnormally dry conditions on the island of Oahu; with moderate drought conditions on the leeward side of the island from Honolulu to Haleiwa; and severe drought conditions along the leeward coast from Pearl Harbor to Makaha. The National Weather Service (NWS) is forecasting below normal precipitation for August 2021. Below-normal precipitation is likely through November, due to current ENSO-neutral conditions, with increasing probability of La Niña conditions by winter.

Most monitoring wells exhibited decreased head levels for the month, likely due to increased pumping during the summer dry season. Average monthly Production for July 2021 was higher compared to the previous year and the 5-year monthly average.

Respectfully submitted,

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

Attachment"

The foregoing was for information only.

DISCUSSION:

Nancy Matsumoto, Hydrologist-Geologist VI, Water Resources Division, gave the report. There were no comments or discussion.

**PRODUCTION, HEAD AND RAINFALL REPORT  
MONTH OF JULY 2021**

**POTABLE**

STATION	MGD
HONOLULU (1)	
KULIOUOU	0.00
WAILUPE	0.14
AINA KOA	0.03
AINA KOA II	0.77
MANOA II	0.85
PALOLO	1.11
KAIMUKI HIGH	1.91
KAIMUKI LOW	3.18
WILDER	8.74
BERETANIA HIGH	4.55
BERETANIA LOW	2.88
KALIH HIGH	0.00
KALIH LOW	0.00
KAPALAMA	0.74
KALIH SHAFT	7.39
MOANALUA	1.38
HALAWA SHAFT	10.98
KAAMILO	0.85
KALAUAO	6.69
PUNANANI	12.05
KAHUMANU	0.28
HECO WAIU	2.51
MANANA	0.29
WELLS SUBTOTAL:	67.32
MANOA TUNNEL	0.17
PALOLO TUNNEL	0.00
GRAVITY SUBTOTAL:	0.17
HONO. SUBTOTAL:	67.49

STATION	MGD
WINDWARD (2)	
WAIMANALO II	0.38
WAIMANALO III	0.00
KUOU I	1.00
KUOU II	0.07
KUOU III	0.77
LULUKU	0.88
HAIKU	0.31
IOLAKAA	0.00
KAHALUU	0.71
KAHANA	0.98
PUNALUU I	0.00
PUNALUU II	2.50
PUNALUU III	2.47
KALUANUI	1.24
MAAKUA	0.32
HAUULA	0.27
WELLS SUBTOTAL:	11.89
WAIM. TUNNELS I & II	0.00
WAIM. TUNNELS III&IV	0.19
WAIHEE INCL. WELLS	0.65
WAIHEE TUNNEL	3.59
LULUKU TUNNEL	0.16
HAIKU TUNNEL	0.45
KAHALUU TUNNEL	1.60
GRAVITY SUBTOTAL:	6.64
WIND. SUBTOTAL:	18.53

STATION	MGD
NORTH SHORE (3)	
KAHUKU	0.44
OPANA	0.26
WAIALEE I	0.44
WAIALEE II	0.69
HALEIWA	0.00
WAIALUA	2.54
N.SHORE SUBTOTAL:	4.37

STATION	MGD
MILILANI (4)	
MILILANI I	1.95
MILILANI II	0.00
MILILANI III	0.79
MILILANI IV	2.19
MILILANI SUBTOTAL:	4.93

STATION	MGD
WAIHAWA (5)	
WAIHAWA	1.01
WAIHAWA II	2.27
WAIHAWA SUBTOTAL:	3.28

STATION	MGD
PEARL CITY-HALAWA (6)	
HALAWA 277	0.65
HALAWA 550	0.00
AIEA	1.26
AIEA GULCH 497	0.18
AIEA GULCH 550	0.23
KAONOHI I	1.25
WAIMALU I	0.00
NEWTOWN	1.05
WAIU	0.79
PEARL CITY I	0.83
PEARL CITY II	1.16
PEARL CITY III	0.29
PEARL CITY SHAFT	0.93
PEARL CITY-HALAWA SUBTOTAL:	8.61

STATION	MGD
WAIPIHU-EWA (7)	
WAIPIO HTS.	2.20
WAIPIO HTS. I	0.00
WAIPIO HTS. II	0.29
WAIPIO HTS. III	1.21
WAIPIHU	5.46
WAIPIHU II	2.45
WAIPIHU III	3.98
WAIPIHU IV	3.13
KUNIA I	2.75
KUNIA II	2.27
KUNIA III	2.14
HOAEAE	8.13
HONOULIULI I	0.00
HONOULIULI II	4.43
MAKAKILO	0.32
WAIPIHU-EWA SUBTOTAL:	38.77

STATION	MGD
WAIANAE (8)	
MAKAHA I	0.00
MAKAHA II	0.00
MAKAHA III	1.09
MAKAHA V	0.74
MAKAHA VI	0.00
MAKAHA SHAFT	0.00
KAMAILE	0.27
WAIANAE I	0.05
WAIANAE II	0.56
WAIANAE III	0.75
WELLS SUBTOTAL:	3.46
WAI. C&C TUNNEL	1.22
WAI. PLANT. TUNNELS	0.21
GRAVITY SUBTOTAL:	1.43
WAIANAE SUBTOTAL:	4.88

**NONPOTABLE**

NONPOTABLE	MGD
KALAUAO SPRINGS	0.41
BARBERS POINT WELL	1.35
GLOVER TUNNEL NP	0.30
NONPOTABLE TOTAL:	2.05

**RECYCLED WATER (JUNE 2021)**

RECYCLED WATER	MGD
HONOULIULI WRF R-1	7.88
HONOULIULI WRF RO	1.34
RECYCLED WATER TOTAL:	9.22



**PRODUCTION, HEAD AND RAINFALL REPORT  
MONTH OF JULY 2021**

**PRODUCTION SUMMARIES**

TOTAL WATER	MGD
PUMPAGE	142.62
GRAVITY	8.24
POTABLE TOTAL:	150.86
NONPOTABLE	2.05
RECYCLED WATER	9.22
TOTAL WATER:	162.13

CWRM PERMITTED USE AND BWS ASSESSED YIELDS FOR BWS				
POTABLE SOURCES				
WATER USE DISTRICTS		A PERMITTED USE/ BWS YLDS	B JUL 2021	C DIFF. A-B
1	HONOLULU	82.93	67.32	15.61
2	WINDWARD	25.02	14.29	10.73
3	NORTH SHORE	4.70	4.37	0.33
4	MILILANI	7.53	4.93	2.60
5	WAHIAWA	4.27	3.28	0.99
6	PEARL CITY-HALAWA	12.25	8.61	3.64
7	WAIPAHU-EWA	50.63	38.77	11.86
8	WAIANAE	4.34	3.46	0.88
TOTAL:		191.67	145.02	46.65

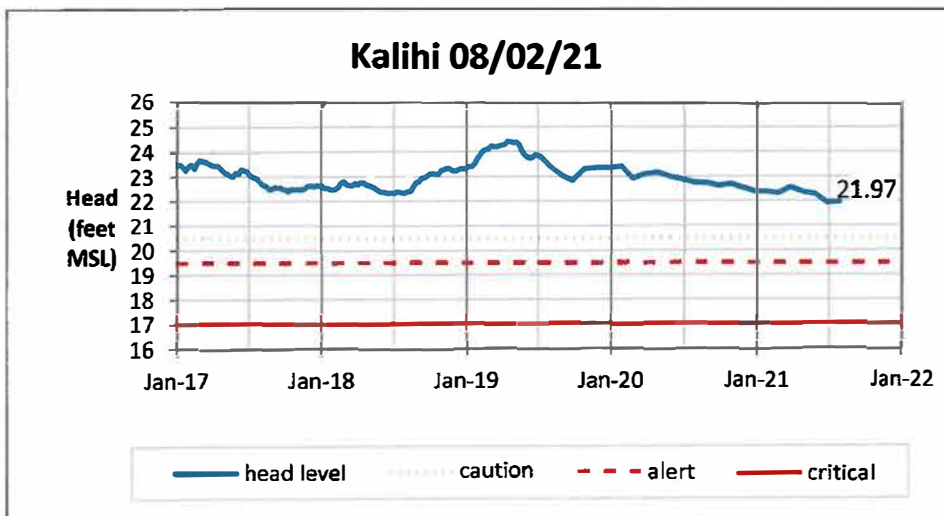
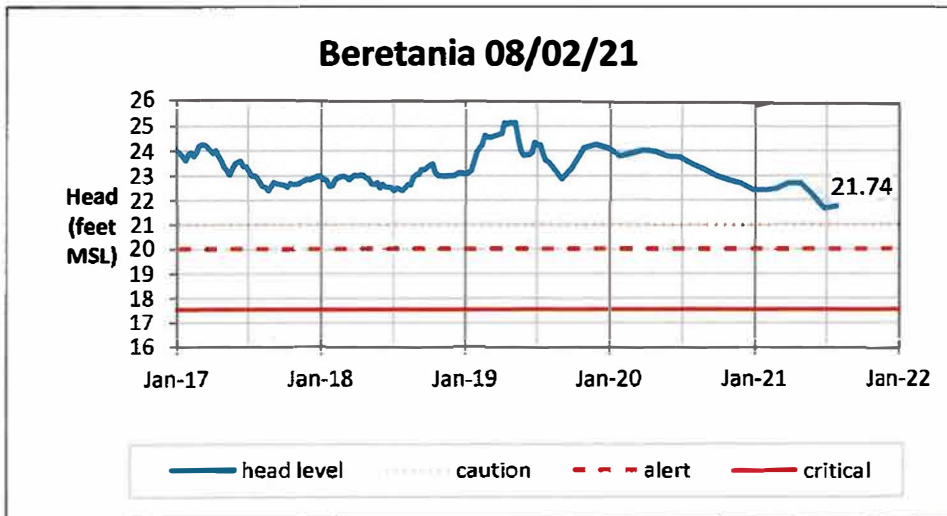
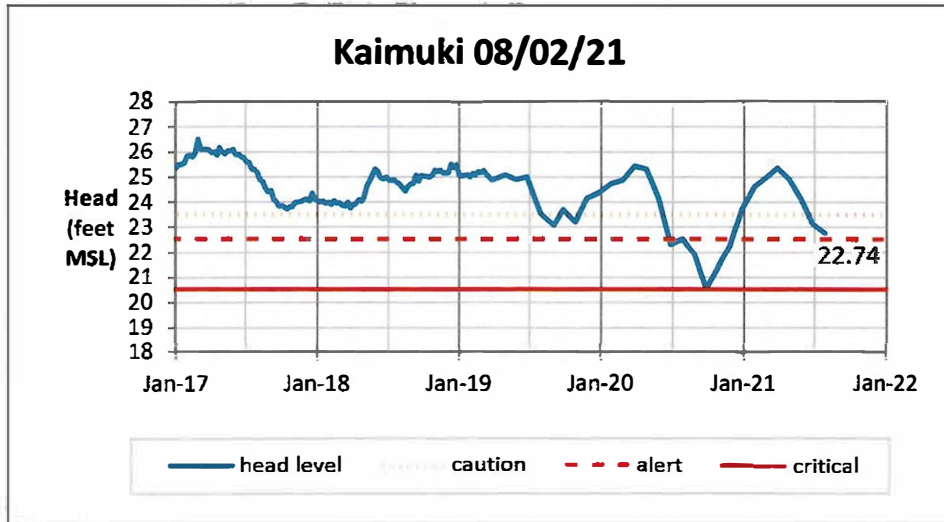
CWRM PERMITTED USE FOR BWS				
NONPOTABLE SOURCES				
WATER USE DISTRICTS		A PERMITTED USE	B JUL 2021	C DIFF. A-B
7	WAIPAHU-EWA (BARBERS POINT WELL)	1.00	1.35	-0.35
TOTAL:		1.00	1.35	-0.35

**EFFECTIVE WATER DEMAND PER DISTRICT**

IMPORT/EXPORT BETWEEN WATER USE DISTRICTS			
FROM	TO		MGD
2	1	WINDWARD EXPORT	0.32
7	8	BARBERS PT LB	6.06

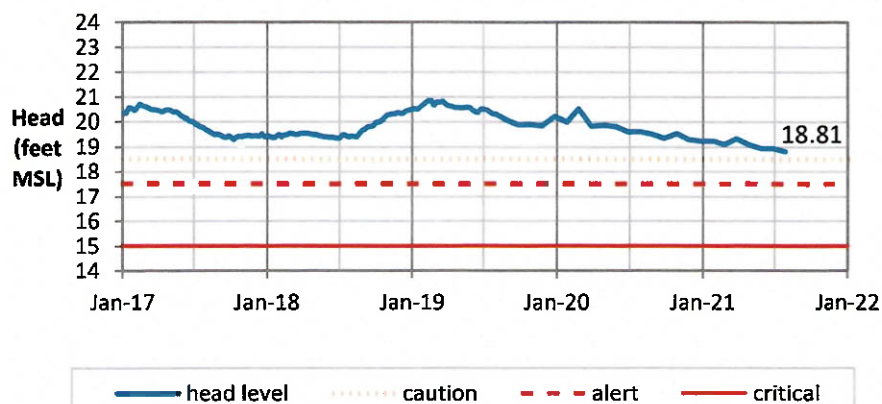
WATER USE DISTRICTS		SUBTOTAL	IMPORT	EXPORT	EFFECTIVE WATER DEMAND
1	HONOLULU	67.32	0.32	-	67.64
2	WINDWARD	14.29	-	0.32	13.97
3	NORTH SHORE	4.37	-	-	4.37
4	MILILANI	4.93	-	-	4.93
5	WAHIAWA	3.28	-	-	3.28
6	PEARL CITY-HALAWA	8.61	-	-	8.61
7	WAIPAHU-EWA	38.77	-	6.06	32.71
8	WAIANAE	3.46	6.06	-	9.51
TOTAL:		145.02	6.38	6.38	145.02

## Head Report

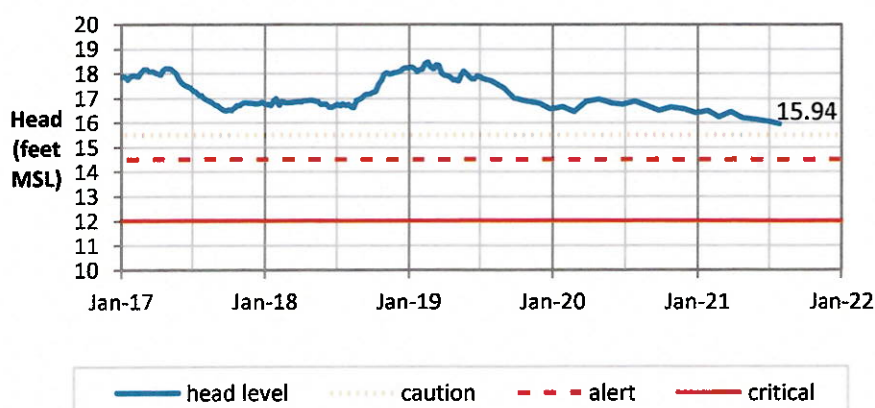


## Head Report

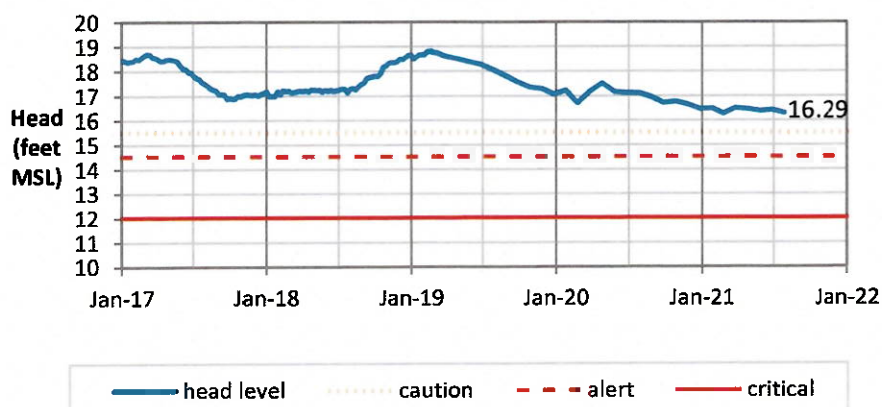
### Moanalua 08/02/21



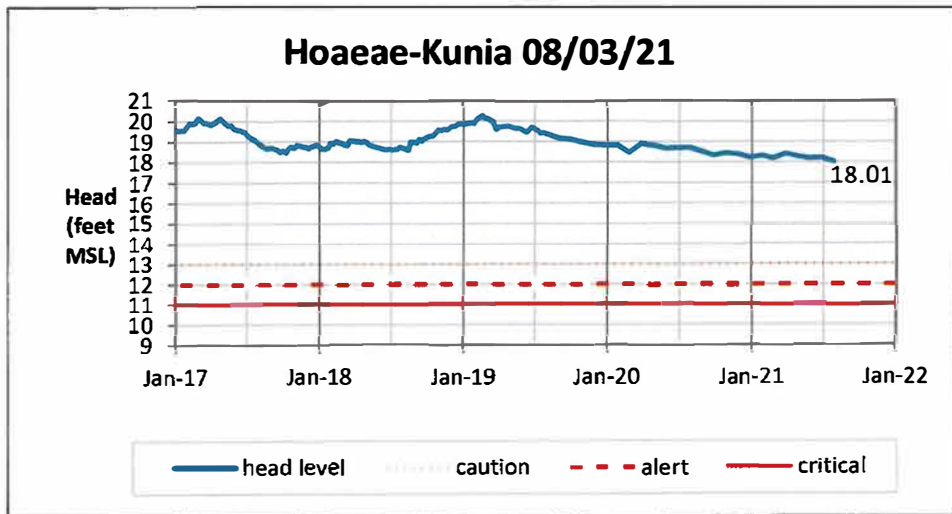
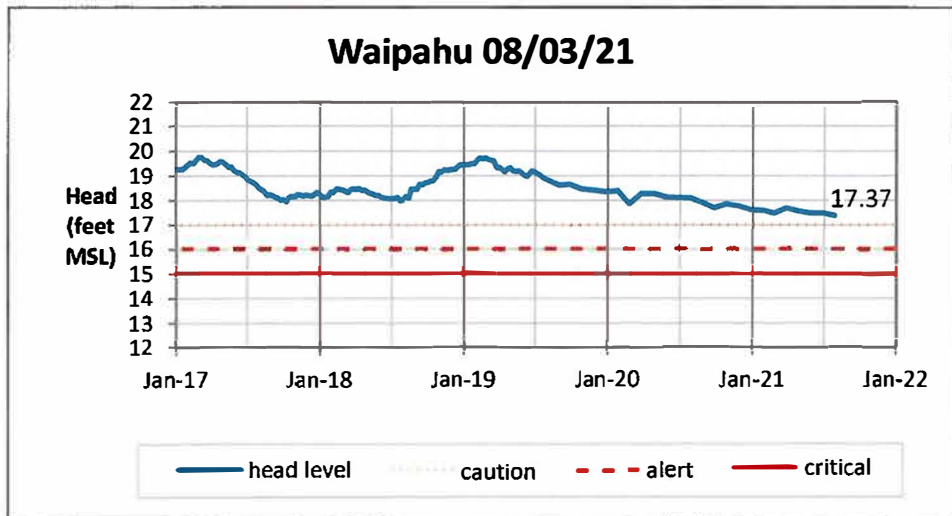
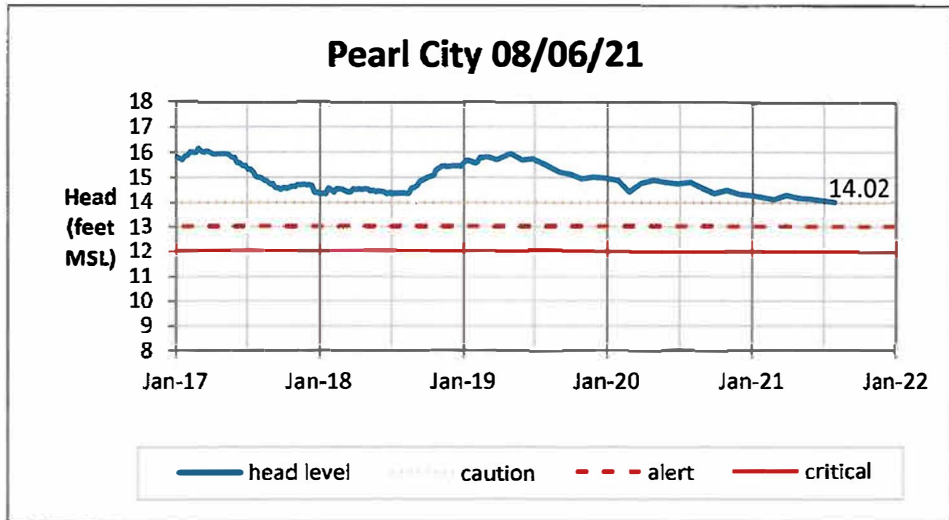
### Halawa 08/06/21



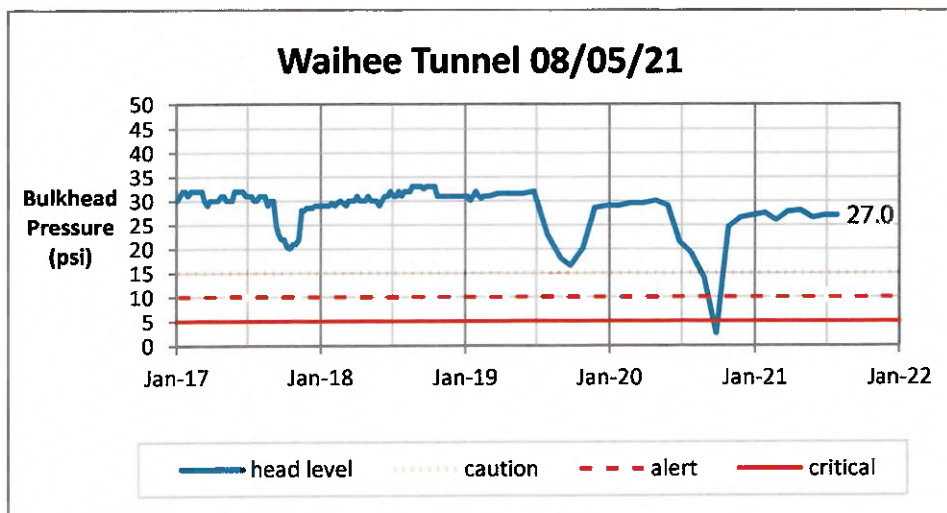
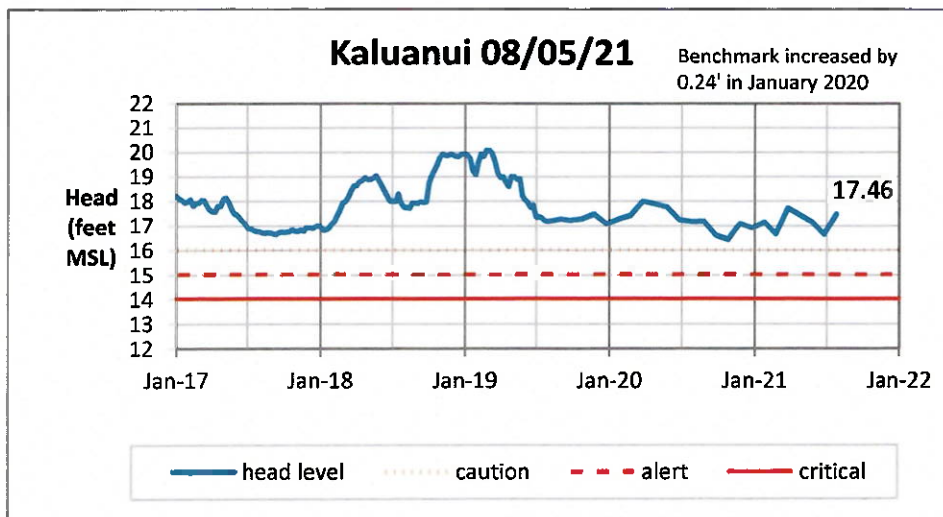
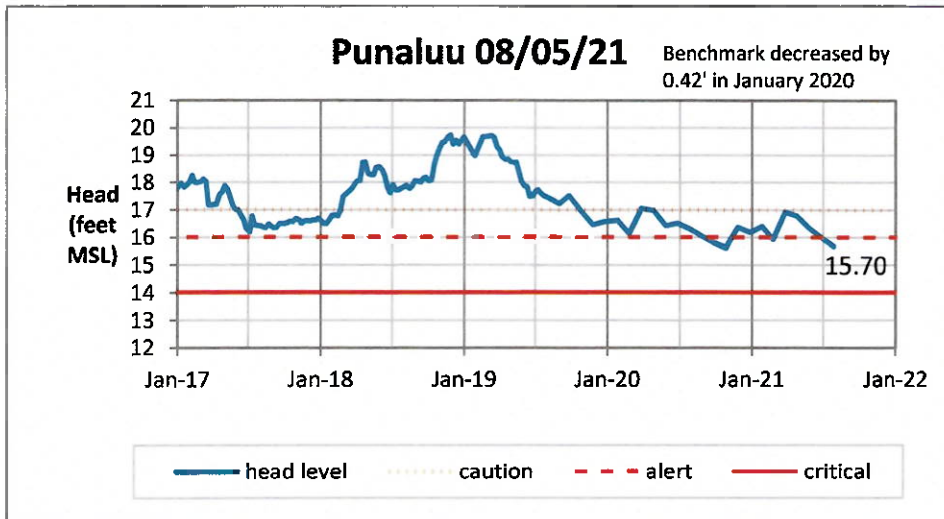
### Kalauao 08/06/21



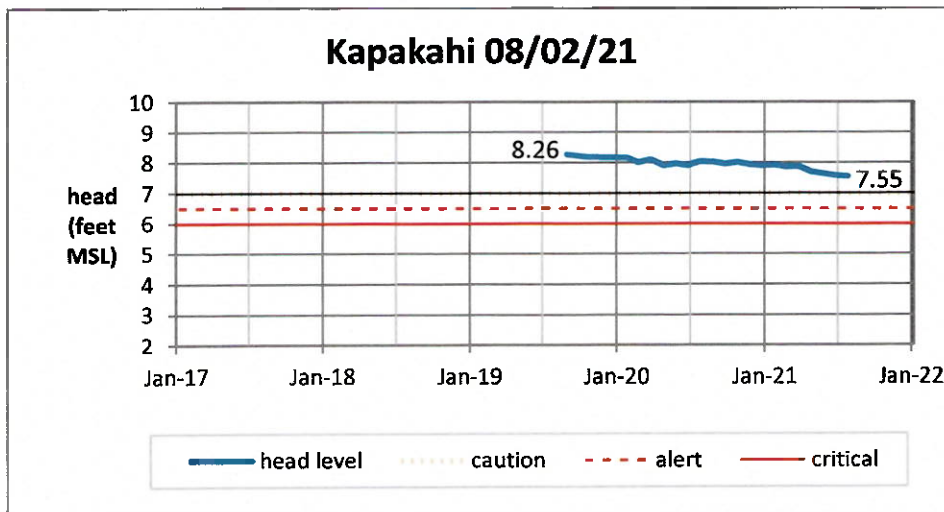
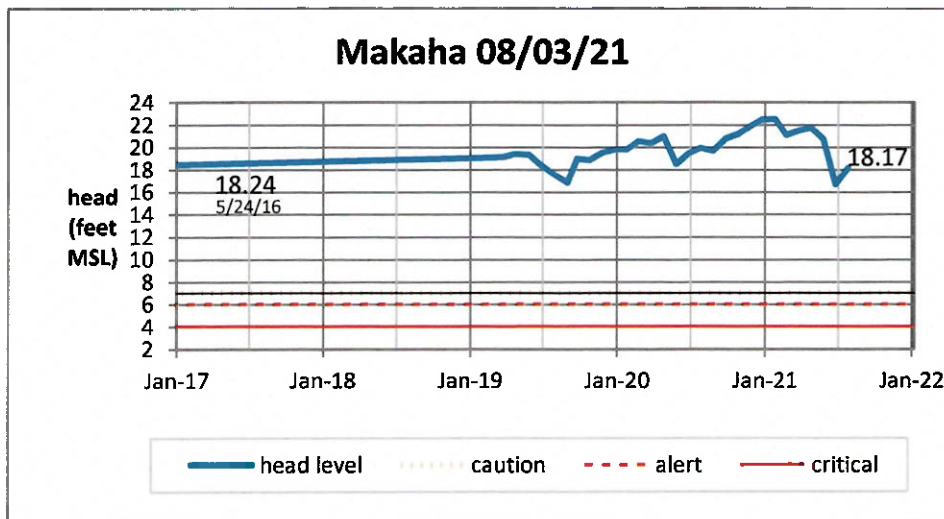
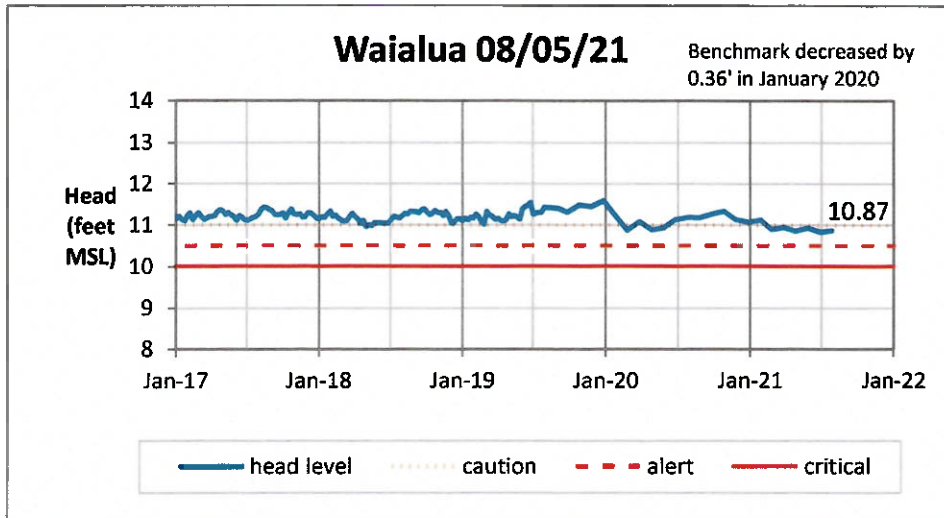
## Head Report



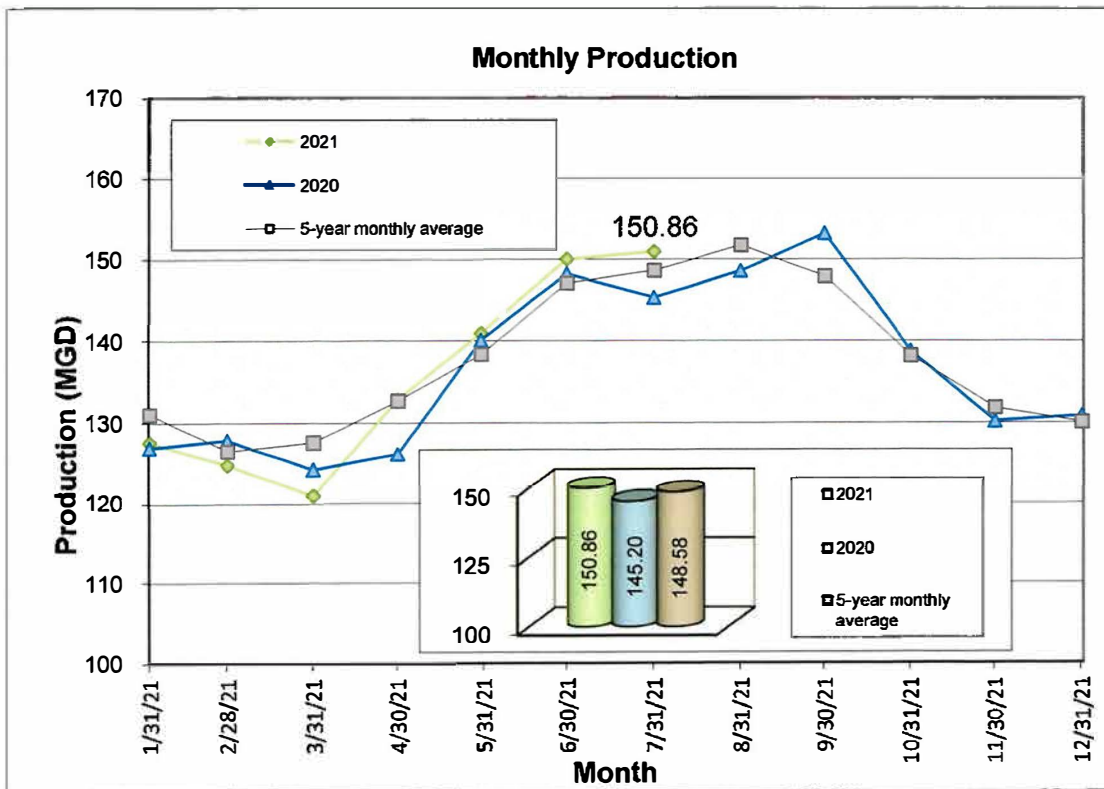
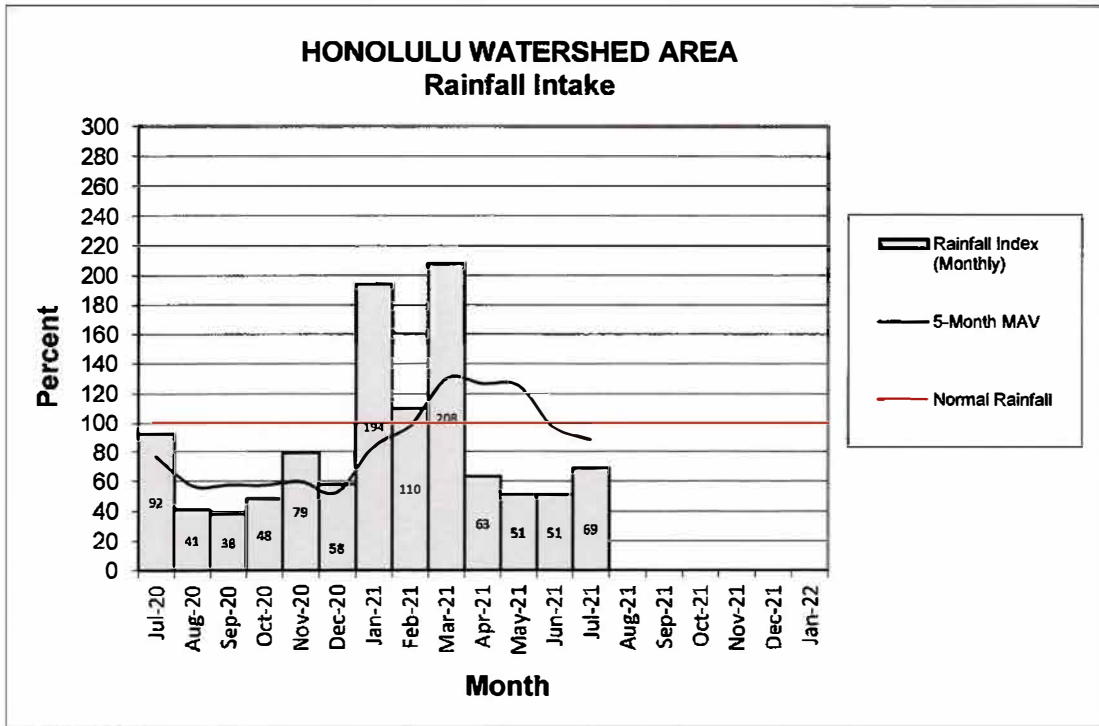
## Head Report



## Head Report







**ITEM FOR INFORMATION NO. 4**

"August 23, 2021

**WATER MAIN  
REPAIR  
REPORT FOR  
JULY 2021**

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

**Chair and Members:**

**Subject:      Water Main Repair Report for July 2021**

**Jason Nikaido, Acting Program Administrator, Field Operations Division,  
will report on water main repair work for the month of July 2021.**

**Respectfully submitted,**

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

**Attachment"**

**The foregoing was for information only.**

**DISCUSSION:**

**Jason Nikaido, Acting Program Administrator, Field Operations Division,  
gave the report. There were no comments or discussion.**

**Chair Andaya asked Mr. Norstrom, is there was anyone to testify by  
telephone. Mr. Norstrom responded there were no telephone testifiers.**

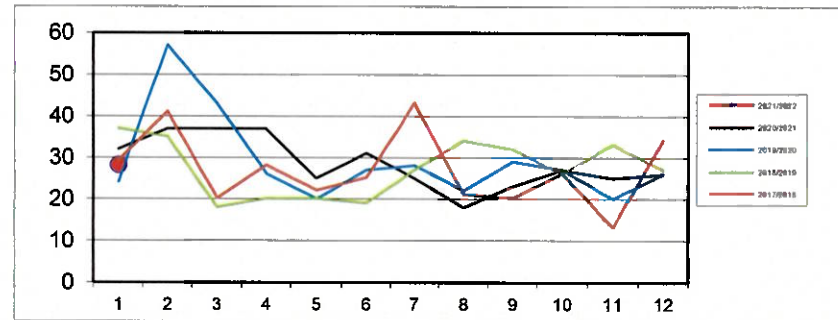


# WATER MAIN REPAIR REPORT

for July 2021

	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	Total
2021/2022	28												28
2020/2021	32	37	37	37	25	31	25	18	23	27	25	26	343
2019/2020	24	57	43	26	20	27	28	22	29	27	20	26	349
2018/2019	37	35	18	20	20	19	27	34	32	26	33	27	328
2017/2018	29	41	20	28	22	25	43	21	20	26	13	34	322

Date	Address	Size (In)	Pipe Type
7/1/2021	3464 Kalua Rd, Honolulu	12	CI
7/6/2021	54-232 Honomu St, Hauula	8	CI
7/7/2021	203 Kaliponi St, Wahiawa	8	CI
7/8/2021	822 8th Ave, Honolulu	6	CI
7/9/2021	1020 Kaweloka St, Pearl City	8	CI
7/9/2021	2250 Aumakua St, Pearl City	8	CI
7/12/2021	51-247 Kamehameha Hwy, Kaaawa	6	CI
7/13/2021	92-811 Moaka St, Kapolei	8	CI
7/13/2021	3912 Waialae Ave, Honolulu	8	CI
7/13/2021	45-87 Waiape Pl, Kaneohe	6	CI
7/14/2021	672 South St, Honolulu	8	DI
7/14/2021	45-87 Waiape Pl, Kaneohe	6	CI
7/14/2021	3428 McCarriston St, Honolulu	8	CI
7/15/2021	1706 Kealia Dr, Honolulu	6	CI
7/20/2021	98-1481 Kaahumanu St, Aiea	12	CI
7/21/2021	1481 Onipaa St, Honolulu	8	CI
7/21/2021	86-249 Kawili St, Waianae	8	PVC
7/25/2021	1467 Kalaepohaku St, Honolulu	8	CI
7/26/2021	1048 8th Ave, Honolulu	6	CI
7/27/2021	44-58 Kaimalu Pl, Kaneohe	8	DI
7/28/2021	98-138 Kaulike Dr, Pearl City	8	PVC
7/28/2021	376 N Circle Mauka Pl, Wahiawa	4	CI
7/28/2021	259 Hakalau Pl, Honolulu	4	CI
7/28/2021	1903 9th Ave, Honolulu	12	CI
7/29/2021	1220 Punana Loop, Kailua	8	CI
7/29/2021	2098 Makiki Heights Dr, Honolulu	8	CI
7/29/2021	66-333 Kamehameha Hwy, Haleiwa	16	AC
7/31/2021	91-503 Pupu St, Ewa Beach	8	CI



11 miles of pipeline were surveyed by the Leak Detection Team in the month of July.

**MOTION TO  
RECESS INTO  
EXECUTIVE  
SESSION**

There being no further business Chair Andaya at 3:33 PM called for a motion to adjourn the Open Session. Jade Butay so moved; seconded by Kapua Sproat and unanimously carried.

Upon unanimous approved motion, the Board recessed into Executive Session Pursuant to [HRS §92-5(a)(4)] and [HRS §92-5(a)(2)] at 3:34 PM to Consider Issues Pertaining to Matters Posted for Discussion at an Executive Session.

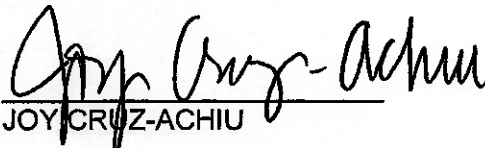
**OPEN  
SESSION**

The Board reconvened in Open Session at 5:08 PM.


**MOTION TO  
ADJOURN**

There being no further business Chair Andaya at 5:09 PM called for a motion to adjourn the Regular Session. Jade Butay so moved; seconded by Na'alehu Anthony and unanimously carried.

The minutes of the Regular Meeting held on August 23, 2021 are respectfully submitted,

  
JOY CRUZ-ACHIU

APPROVED:

  
BRYAN P. ANDAYA  
Chair of the Board  
**SEP 27 2021**  
Date

THE MINUTES OF THE REGULAR SESSION BOARD MEETING ON AUGUST 23, 2021 WERE APPROVED AT THE SEPTEMBER 27, 2021 BOARD MEETING			
	AYE	NO	COMMENT
BRYAN P. ANDAYA	X		
KAPUA SPROAT			ABSENT
RAY C. SOON			ABSENT
MAX J. SWORD	X		
NA'ALEHU ANTHONY	X		
JADE T. BUTAY	X		
ROGER BABCOCK JR.			ABSENT