## MINUTES

# REGULAR MEETING OF THE BOARD OF WATER SUPPLY

## February 24, 2020

At 2:00 PM on February 24, 2020, 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

Ray C. Soon Max J. Sword Ross S. Sasamura Jade T. Butay

Also Present: Ernest Lau, Manager and Chief Engineer

Ellen Kitamura, Deputy Manager and Chief Engineer

Erwin Kawata Mike Fuke Jason Nikaido Jason Takaki Jennifer Elflein Joe Cooper Kathleen Pahinui

Kevin Ihu

Henderson Nuuhiwa Michele Thomas Barry Usagawa Stuart Wong Steven Nordstrom

Others Present: Jeff Lau, Deputy Corporation Counsel

Moana A. Yost, Deputy Corporation Counsel

Lawrence Chu, N&K CPAs Ryan Iwane, N&K CPAs

Absent: Kay Matsui

APPROVAL OF MINUTES

Approval of the Minutes of the Regular Meeting held on January 27, 2020.

DISCUSSION

Vice Chair Kapua Sproat requested that the word "and" be deleted from the first line on page 12 of 16. The second line should read why did we settle on

3.2 feet?

MOTION TO APPROVE Ross Sasamura and Max Sword motioned and seconded, respectively, to approve the Minutes of the Regular Meeting of January 27, 2020, as

amended. The motion was unanimously carried.

| THE MINUTES OF THE REGULAR MEETING HELD ON JANUARY 27, 2020 AS AMENDED WERE APPROVED AT THE FEBRUARY 24, 2020 BOARD MEETING |   |  |        |  |  |
|-----------------------------------------------------------------------------------------------------------------------------|---|--|--------|--|--|
| AYE NO COMMENT                                                                                                              |   |  |        |  |  |
| BRYAN P. ANDAYA                                                                                                             | х |  |        |  |  |
| KAPUA SPROAT                                                                                                                | х |  |        |  |  |
| KAY C. MATSUI                                                                                                               |   |  | ABSENT |  |  |
| RAY C. SOON                                                                                                                 | х |  |        |  |  |
| MAX J. SWORD                                                                                                                | x |  |        |  |  |
| ROSS S. SASAMURA                                                                                                            | х |  |        |  |  |
| JADE T. BUTAY                                                                                                               | х |  |        |  |  |

ADOPTION OF RESOLUTION NO. 907, 2020 Chairman and Members
Board of Water Supply
City and County of Honolulu
Honolulu, Hawaii 96843

Chair and Members:

Subject: Adoption of Resolution No. 907, 2020, Acceptance of Gifts

to the Board of Water Supply from Various Donors in Support of the 2020 Water Conservation Week Program

We recommend the adoption of the attached Resolution No. 907, 2020, that accepts the proposed gifts to the Board of Water Supply (BWS), City and County of Honolulu, in support of the 2020 Water Conservation Week (WCW) Program. The donors' total value of these gifts is \$13,500.00.

| Donor Name                               | Amount                |
|------------------------------------------|-----------------------|
| Sodexo (Refreshments for awards ceremony | \$ 3,000.00 (in-kind) |
| reception)                               | ,                     |
| Hawaiian Financial Federal Credit Union  | \$ 2,000.00           |
| Friends of Halawa Xeriscape Garden       | \$ 2,000.00           |
| Times Supermarkets                       | \$ 2,000.00           |
| Aloha Pacific Federal Credit Union       | \$ 2,000.00           |
| Alexander and Baldwin, Incorporated      | \$ 1,000.00           |
| Hawaii Energy                            | \$ 1,000.00           |
| Pasha Hawaii                             | <u>\$</u> 500.00      |
| TOTAL                                    | \$13,500.00           |

The WCW program, well established in its 42<sup>nd</sup> year of existence, is a successful public education program for Oahu's students in grades Kindergarten through 12 that instills the value of drinking water and its efficient use. Studies have shown that youth who embrace water conservation practices at an early age are more likely to encourage their parents to be water-efficient and later raise their own water-smart families. Through this program, the BWS hopes to inspire more customers to adopt behaviors that support water conservation.

Sponsor gifts will help the BWS offset program costs that include the printing of 20,000 copies of the 2021 Water Conservation Calendars that feature the 2020 contest's winning entries, as well as an awards ceremony for place winners and honorable mentions of the 2020 WCW Poster and Poetry contests. The calendars are distributed to all Oahu schools, elected officials, and the general public.

We deeply appreciate the continued support of this Board for this very valuable and worthwhile public education program. All participants in our WCW program are encouraged to always embrace their roles as responsible stewards of our precious water resource.

## Respectfully submitted,

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

Attachment"

DISCUSSION: Kathleen Elliott-Pahinui, Information Officer, Communications Office, gave

the report. There were no comments or questions.

MOTION TO Jade Butay motioned to adopt Resolution No. 907, 2020,

ADOPT Acceptance of Gifts to the Board of Water Supply from Various

RESOLUTION Donors in Support of the 2020 Water Conservation Week Program. No. 907, 2020

The motion was seconded by Vice Chair Kapua Sproat and unanimously

carried.

RESOLUTION NO. 907, 2020 ACCEPTANCE OF GIFTS TO THE BOARD OF WATER SUPPLY FROM VARIOUS DONORS IN SUPPORT OF THE 2020 WATER CONSERVATION WEEK PROGRAM ADOPTED ON FEBRUARY 24, 2020

| TEDITORITY 24, 2020 |     |    |         |
|---------------------|-----|----|---------|
|                     | AYE | NO | COMMENT |
| BRYAN P. ANDAYA     | _ x |    |         |
| KAPUA SPROAT        | x   |    |         |
| KAY C. MATSUI       |     |    | ABSENT  |
| RAY C. SOON         | x   |    |         |
| MAX J. SWORD        | x   |    |         |
| ROSS S. SASAMURA    | x   |    |         |
| JADE T. BUTAY       | x   |    |         |

# BOARD OF WATER SUPPLY CITY AND COUNTY OF HONOLULU

## **RESOLUTION NO. 907, 2020**

## ACCEPTANCE OF GIFTS TO THE BOARD OF WATER SUPPLY FROM VARIOUS DONORS IN SUPPORT OF THE 2020 WATER CONSERVATION WEEK PROGRAM

WHEREAS, the Board of Water Supply's (BWS) Water Conservation Week program is an annual endeavor that features a poster and poetry contest to educate Oahu's youth about the importance of using water efficiently and features the winning and honorable mention entries in an annual Water Conservation Calendar; and

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

WHEREAS, the BWS will solicit for gifts on its agency website, which is available for access by any interested person or business; and

WHEREAS, Friends of Halawa Xeriscape Garden; Hawaiian Financial Federal Credit Union, Board of Water Supply Branch; Times Supermarkets; Aloha Pacific Federal Credit Union; Alexander and Baldwin, Incorporated; Hawaii Energy; and Pasha Hawaii are offering monetary gifts totaling \$10,500.00; and Sodexo is offering in-kind gifts valued at almost \$3,000.00 in support of the 2020 Water Conservation Week program; and

WHEREAS, a gift to the BWS benefits the Department because it assists outreach efforts such as the BWS's Water Conservation Week public education program and reduces the need for ratepayer funds to support the program's key components; and

WHEREAS, the gifts will be used to offset reasonable and necessary costs of the printing and delivery of 20,000 Water Conservation Calendars featuring the contests' winning entries, as well as an awards ceremony to reveal and recognize the student winners and honorable mentions; now, therefore

BE IT RESOLVED that the Board of Water Supply hereby accepts the various gifts valued at \$13,500.00 and directs the Manager and Chief Engineer, or his delegate, to accept and thank the various donors for these gifts.

ADOPTED:

BRYAN P. ANDAYA Chair

Honolulu, Hawaii February 24, 2020 ADOPTION OF RESOLUTION NO. 908, 2020 Chair and Members
Board of Water Supply
City and County of Honolulu
Honolulu, Hawaii 96843

Chair and Members:

Subject:

Resolution No. 908, 2020, Authorizing Up to \$245,000,000

Principal Amount of Series 2020 Bonds

We recommend the adoption and approval of Resolution No. 908, 2020, which authorizes and approves the issuance by the Board of Water Supply (Board) at one time, of not to exceed \$245,000,000 principal amount of revenue bonds. The purposes for which the Series 2020 Bonds are being issued are: (1) to pay the cost of improvements authorized in the capital budget of the Board; (2) to pay the cost of issuance of the Series 2020 Bonds; and (3) to fund a trust fund to provide for the refunding and redemption of all or a portion of the Board's Water System Revenue Bonds, Series 2012A, Series 2014A, and/or Series 2014B. The bonds shall be on terms and conditions as the Board determined to be necessary and advisable.

Respectfully submitted,

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

Attachment"

DISCUSSION:

Joseph Cooper, Waterworks Controller, Finance Division, gave the report.

There were no comments or questions.

# BOARD OF WATER SUPPLY CITY AND COUNTY OF HONOLULU, HAWAII

# WATER SYSTEM REVENUE BOND SERIES 2020 RESOLUTION NO. 908, 2020

# AUTHORIZING UP TO \$245,000,000 PRINCIPAL AMOUNT OF SERIES 2020 BONDS

ADOPTED FEBRUARY 24, 2020

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## WATER SYSTEM REVENUE BOND SERIES 2020 RESOLUTION

#### **AUTHORIZING UP TO**

## \$245,000,000 PRINCIPAL AMOUNT OF SERIES 2020 BONDS

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

#### ARTICLE I

## DEFINITIONS AND STATUTORY ALTHORITY

- Section 1.01. Series 2020 Resolution. (1) This Water System Revenue Bond Series 2020 Resolution, authorizing up to \$245,000,000 principal amount of Series 2020 Bonds, is supplemental to, and constitutes a Series Resolution within the meaning of and is adopted in accordance with Article X of, the Resolution, as hereinafter defined.
- (2)e It is hereby found and determined that it is necessary and required that the Board authorize and issue at this time a Series of Bonds to be designated as herein provided to provide monies to carry out one or more purposes of the Board.
- Section 1.02. Definitions. (1) All terms which are defined in Section 1.01 of the Resolution shall have the same meanings, respectively, in this Series Resolution as such terms are given in said Section 1.01 of the Resolution.
- (2)e In addition, as used in this Series Resolution, unless the context shall otherwisee require, the following terms shall have the following respective meanings:
- "Authorized Officer" means the Manager, the Waterworks Controller or other officer designated by resolution of the Board.

"Resolution" means that certain resolution adopted by the Board on April 26, 2001, entitled "A Resolution Authorizing and Providing for the Issuance of Revenue Bonds of the Board of Water Supply of the City and County of Honolulu, Hawaii, for the Purposes of the Water System of Said City and County; Covenanting as to the Establishment, Maintenance, Revision and Collection of Charges and Rates for the Use and Services of Said Water System and the Collection and Disbursement of the Revenues Derived Therefrom; Pledging the Net Revenues Derived from Said Water System to the Payment of the Principal of and Interest on Said Bonds as the Same Fall Due; Creating and Establishing Certain Funds and Accounts; Setting Forth the Limitations or Conditions Upon the Issuance by the Board of Additional Bonds

Payable from the Aforesaid Revenues; and Making Other Covenants and Agreements in Connection with the Foregoing," as amended and supplemented.

"Series 2020 Bonds" means the Bonds authorized by Article II of this Series 2020 Resolution.

"Series 2020 Resolution" means this Water System Revenue Bond Series 2020 Resolution authorizing up to \$245,000,000 principal amount of the Series 2020 Bonds.

"Taxable Bonds" means any Series 2020 Bonds which are not intended by the Board to be Tax-exempt Bonds.

"Tax Certificate" means the Tax Certificate executed by an Authorized Officer of the Board in connection with the issuance of the Series 2020 Bonds that are Tax-exempt Bonds.

- (3) Words of any gender shall be deemed and construed to include correlative words of the other genders. Unless the context shall otherwise indicate, words importing the singular number shall include the plural number and vice versa, and words importing persons shall include firms, associations and corporations, including public bodies, as well as natural persons.
- (4) The terms "hereby," "hereof," "hereto," "herein," "hereunder," and any similar terms, as used in this Series 2020 Resolution, refer to the Series 2020 Resolution.

Section 1.03. Authority for the Series 2020 Resolution. This Series 2020 Resolution is adopted pursuant to the provisions of the Act and the Resolution.

### ARTICLE II

# AUTHORIZATION, TERMS AND ISSUANCE OF SERIES 2020 BONDS

Section 2.01. Authorization of Series 2020 Bonds. Principal Amount. Designation and Series. One or more Series of Bonds entitled to the benefit, protection and security of the Resolution are hereby authorized to be issued in an aggregate principal amount not to exceed \$245,000,000. Each such Series of Bonds shall be designated as and shall be distinguished from the Bonds of all other Series by the title "Water System Revenue Bonds, Series \_\_\_\_," (having inserted in such blank the year of issuance and any appropriate letter designation), pursuant to and subject to the terms, conditions and limitations established in the Resolution and this Series 2020 Resolution.

Section 2.02. *Purposes*. The purposes for which the Series 2020 Bonds are being issued are (1) to pay the Costs of Improvements authorized in the capital budget of the Board; (2) to pay the costs of issuance of the Series 2020 Bonds; and (3) to fund a trust fund to provide for the refunding and redemption of all or a portion of the Board's Water System Revenue Bonds, Series 2012A, the Board's Water System Revenue Bonds, Series 2014A, and/or the Board's Water System Revenue Bonds, Series 2014B (the "Outstanding Bonds").

- Section 2.03. Delegation of Authority. (1) There is hereby delegated to any Authorized Officer of the Board, subject to the limitations contained herein and in the Resolution and the Act, the power with respect to the Series 2020 Bonds to determine and carry out the following:
  - (a) The sale of the Series 2020 Bonds at public or private sale and, if at private sale, the underwriter or underwriters; provided, however, that in the case of a private sale the purchase price paid by the purchasers thereof shall not be less than ninety percent (90%) of the principal amount of the Series 2020 Bonds so sold;
  - (b) The principal amount of Series 2020 Bonds to be issued; provided, however, that the principal amount of Series 2020 Bonds shall not exceed \$245,000,000;
  - (c) The specific Improvements to be financed from the proceeds of the Series 2020 Bonds:
  - (d) The Series designation of each Series of the Series 2020 Bonds, the date or dates, maturity date or dates and principal amount of each maturity of the Series 2020 Bonds or the method for calculating such dates and amounts, the amount and date of each Sinking Fund Installment, if any, or the method for calculating the Sinking Fund Installments and which Series 2020 Bonds are Serial Bonds or Term Bonds, if any, and the Record Date or Record Dates of the Series 2020 Bonds for which the Record Date or Record Dates is other than the fifteenth (15th) day (whether or not a Business Day) of the month next preceding an interest payment date for such Bonds;
  - (e) The interest rate or rates, if any, of the Series 2020 Bonds or the manner of determining such rate or rates, the date from which interest on the Series 2020 Bonds shall accrue, the dates on which interest on the Series 2020 Bonds shall be payable, if any, and if any Series 2020 Bonds are Variable Rate Bonds, the Maximum Interest Rate and the Minimum Interest Rate for such Bonds, and the provisions, if any, as to the calculation or change of variable interest rates; provided, however, that the true interest cost (as determined by an Authorized Officer of the Board, which determination shall be conclusive) on the Series 2020 Bonds shall not exceed eight percent (8%) per annum in the case of Taxable Bonds;
  - (f) The Series 2020 Bonds which are Capital Appreciation Bonds, if any, the Valuation Dates for such Bonds and the Accreted Value on each such Valuation Date;
  - (g) The Series 2020 Bonds which are Deferred Income Bonds, if any, the Valuation Dates for such Bonds, the Appreciated Value on each such Valuation Date and the Interest Commencement Date for such Bonds;
  - (h) If any Series 2020 Bonds are Capital Appreciation Bonds or Deferred Income Bonds, the manner in which and the period during which principal and interest shall be deemed to accrue on such Series 2020 Bonds;

- (i) If any Series 2020 Bonds are Option Bonds, (1) provisions regarding tender for purchase or redemption thereof and payment of the purchase or Redemption Price thereof; and (2) provisions regarding the appointment of a Remarketing Agent;
- (j) The denomination or denominations of and the manner of numbering the Series 2020 Bonds;
- (k) The Series 2020 Bonds which are Book Entry Bonds, if any, and the Depository therefor;
- (l) The Paying Agent or Paying Agents for the Series 2020 Bonds and the place or places of payment of the principal, Sinking Fund Installments, if any, or Redemption Price of and interest on the Series 2020 Bonds;
- (m) The Redemption Price or Redemption Prices, if any, and, subject to Article V of the Resolution, the redemption terms, if any, for the Series 2020 Bonds; provided, however, that the Redemption Price of Series 2020 Bonds at the election or direction of the Board shall not be greater than one hundred three percent (103%) of the principal amount of the Series 2020 Bonds to be redeemed, plus accrued interest thereon to the date of redemption; provided that the Redemption Price for any redemption of Taxable Bonds may be such higher price as may be appropriate for the sale of such Taxable Bonds;
- (n) The form of the Series 2020 Bonds and the form of the Paying Agent's certificate of authentication thereon;
- (o) Whether the Series 2020 Bonds shall be entitled to the benefit of the Common Reserve Account, and if so entitled, the amount of the Common Reserve Account Requirement and the method of funding or providing for such Common Reserve Account Requirement, the terms and provisions and credit quality of any Support Facility to be deposited therein, and any provisions with respect to subaccounts therein, if applicable;
- (p) Any provisions with respect to funds and accounts and subaccounts therein, if applicable, and the Revenues and application thereof, as provided in Article VI of the Resolution;
- (q) If the Series 2020 Bonds shall not be entitled to the benefit of the Common Reserve Account, whether a Series Reserve Account will be established for any of the Series 2020 Bonds, and if so determined to be established, the amount of the Series Reserve Account Requirement and the method of funding or providing for such Series Reserve Account Requirement, the terms and provisions and credit quality of any Support Facility to be deposited therein, and any provisions with respect to subaccounts therein, if applicable;
- (r) Which Outstanding Bonds shall be refunded from proceeds of the Series 2020 Bonds and other available moneys, and directions for the application of the

proceeds of the Series 2020 Bonds, including directions with respect to the refunding of such Outstanding Bonds;

- (s)o Whether a Support Facility shall be obtained or an Interest Rate Exchange Agreement shall be entered into with respect to the Series 2020 Bonds, and if any Series 2020 Bonds are Option Bonds, (i) the appointment of a Support Facility Provider which shall supply a Support Facility with respect to such Series 2020 Bonds; and (ii) provisions for the establishment of separate accounts in which amounts drawn under a Support Facility for the Series 2020 Bonds are to be deposited;
- (t) Directions for the application of the proceeds of the Series 2020 Bonds, o including the interest on any Series 2020 Bonds to be capitalized from the proceeds thereof, if any, and the date or dates to which such capitalized interest shall accrue;
  - (u)o [reserved];o
- (v)o Which Series 2020 Bonds are to be issued as Tax-exempt Bonds ando which, if any, are to be issued as Taxable Bonds; and
- (w)o Any other provisions deemed advisable by an Authorized Officer of theo Board, not in conflict with the provisions hereof or of the Resolution.
- (2) Such Authorized Officer shall execute one or more Series Certificates evidencingo determinations or other actions taken pursuant to the authority granted herein or in the Resolution and any such Series Certificate shall be conclusive evidence of the action or determination of such Authorized Officer as to the matters stated therein.
- (3)0 All Series 2020 Bonds of like Series, maturity and tenor issued pursuant to thiso Series 2020 Resolution shall be identical in all respects, except as to denominations and numbers.
- Section 2.04. <u>Authority to Enter into Agreements</u>. (1) In the event any of the Series 2020 Bonds are sold at private sale as provided in clause (a) of subsection (1) of Section 2.03, any Authorized Officer of the Board is hereby authorized to execute one or more Bond Purchase Contracts in the name and on behalf of the Board in substantially the form as presented to and on file with the Board, which form is hereby approved, with such changes, insertions and omissions as may be approved by such Authorized Officer, such execution being conclusive evidence of such approval.
- (2)o The form of the Continuing Disclosure Certificate, as presented to and on fileo with the Board, is hereby approved. Any Authorized Officer of the Board is hereby authorized to execute one or more Continuing Disclosure Certificates substantially in such form, with such changes, insertions and omissions as may be approved by such Authorized Officer, such execution being conclusive evidence of such approval.
- (3)0 The form of the Escrow Agreement by and between the Board and a financialo institution as trustee thereunder, as presented to and on file with the Board, is hereby approved. Any Authorized Officer of the Board is hereby authorized to select a qualified financial

institution to serve as trustee and to execute the Escrow Agreement in the name and on behalf of the Board substantially in such form, with such changes, insertions and omissions as may be approved by such Authorized Officer, such execution being conclusive evidence of such approval.

- Section 2.05. Official Statements. (1) The form of Preliminary Official Statement, as presented to and on file with the Board, is hereby approved. The distribution in connection with the offering and sale of the Series 2020 Bonds of one or more Preliminary Official Statements in such form, with such changes, insertions and omissions as an Authorized Officer of the Board deems advisable, is hereby authorized.
- (2) Any Authorized Officer of the Board is hereby authorized to execute and deliver, in the name and on behalf of the Board, one or more final Official Statements in substantially the form of the Preliminary Official Statement, with such changes, insertions and omissions as such Authorized Officer deems advisable, and to permit the distribution of said Official Statement or Official Statements in connection with the offering and sale of the Series 2020 Bonds.

Section 2.06. Execution of Documents. Any Authorized Officer of the Board is hereby authorized to execute and deliver, in the name and on behalf of the Board, any and all documents and instruments, and to do and cause to be done any and all acts and things, said Authorized Officer deems necessary or advisable in connection with the offering, sale and issuance of the Series 2020 Bonds and to carry out the transactions contemplated by this Series 2020 Resolution.

#### ARTICLE III

## EXECUTION AND AUTHENTICATION OF THE SERIES 2020 BONDS

- Section 3.01. Execution and Authentication of Series 2020 Bonds. (1) Pursuant to the provisions of Sections 4.02 and 4.03 of the Resolution, the Chair or Vice-Chair of the Board is hereby authorized and directed to execute by his or her manual or facsimile signature the Series 2020 Bonds in the name of the Board; the program administrator, Finance Division, as the Waterworks Controller, is hereby authorized and directed to countersign by his or her manual or facsimile signature the Series 2020 Bonds, and the seal of the Board shall be affixed or a facsimile of such seal shall be imprinted on the Series 2020 Bonds.
- (2) If a Paying Agent for the Series 2020 Bonds is appointed as provided in clause (1) of subsection (1) of Section 2.03, such Paying Agent is hereby authorized to authenticate by manual signature the Series 2020 Bonds, and deliver the same to or upon the order of the Board, in such amounts and at such times as such Paying Agent shall be directed in writing by an Authorized Officer.

#### ARTICLE IV

### APPLICATION OF PROCEEDS

Section 4.01. Application of Proceeds and Deposit of Moneys. On the date of delivery of the Series 2020 Bonds, the proceeds of the sale of the Series 2020 Bonds shall be applied in accordance with the written direction of any Authorized Officer given pursuant to Section 2.03(1)(r) of this Series 2020 Resolution.

### ARTICLE V

#### SPECIAL COVENANTS

Section 5.01. Tax Status. The interest on the Series 2020 Bonds that are Tax-exempt Bonds is intended to be excluded from gross income for purposes of federal income taxation. In order to maintain such exclusion, the Board affirms that the tax covenants made in Section 8.13 of the Resolution shall apply to the Series 2020 Bonds that are Tax-exempt Bonds. In furtherance of the foregoing, the Board shall comply with the provisions of the Tax Certificate executed by any Authorized Officer of the Board in connection with the applicable Series 2020 Bonds that are Tax-exempt Bonds.

Section 5.02. Survival of Covenant. The obligation of the Board to comply with the provisions of the Tax Certificate with respect to any required payments to the Department of the Treasury of the United States of America shall remain in full force and effect so long as the Board shall be required by the Code to make such payments, notwithstanding that the Series 2020 Bonds that are Tax-Exempt Bonds are no longer Outstanding.

#### ARTICLE VI

#### MISCELLANEOUS

Section 6.01. *Effectiveness*. The Series 2020 Resolution shall become effective immediately upon its adoption.

# INTRODUCED BY:

Bryan P. Andaya, Chair

Date of Introduction: February 24, 2020

| RESOLUTION NO. 908, 2020, AUTHORIZING UP TO<br>\$245,000.000 PRINCIPAL AMOUNT OF SERIES 2020<br>BONDS ADOPTED ON FEBRUARY 24, 2020 |                                            |  |        |  |  |  |
|------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|--|--------|--|--|--|
| AYE NO COMMENT                                                                                                                     |                                            |  |        |  |  |  |
| BRYAN P. ANDAYA                                                                                                                    | x                                          |  |        |  |  |  |
| KAPUA SPROAT                                                                                                                       | x                                          |  |        |  |  |  |
| KAY C. MATSUI                                                                                                                      |                                            |  | ABSENT |  |  |  |
| RAY C. SOON                                                                                                                        | х                                          |  |        |  |  |  |
| MAX J. SWORD                                                                                                                       | $\begin{bmatrix} \mathbf{x} \end{bmatrix}$ |  |        |  |  |  |
| ROSS S. SASAMURA X                                                                                                                 |                                            |  |        |  |  |  |
| JADE T. BUTAY                                                                                                                      | x                                          |  |        |  |  |  |

The above and foregoing resolution is hereby approved as to form and legality this Feb 24, 2020.

Corporation Counsel, Deputy City and County of Honolulu

MOTION TO ADOPT RESOLUTION NO. 908, 2020 Ross Sasamura motioned to adopt Resolution No. 908, 2020, Authorizing Up to \$245,000,000 Principal Amount Series Bonds

The motion was seconded by Jade Butay and unanimously carried.

| RESOLUTION NO. 908, 2020 AUTHORIZING UP TO \$245,000,000 PRINCIPAL AMOUNT SERIES BONDS   ADOPTED ON FEBRUARY 24, 2020 |   |   |        |  |  |  |
|-----------------------------------------------------------------------------------------------------------------------|---|---|--------|--|--|--|
| AYE NO COMMEN                                                                                                         |   |   |        |  |  |  |
| BRYAN P. ANDAYA                                                                                                       | x |   |        |  |  |  |
| KAPUA SPROAT                                                                                                          | × |   |        |  |  |  |
| KAY C. MATSUI                                                                                                         |   |   | ABSENT |  |  |  |
| RAY C. SOON                                                                                                           | x | _ |        |  |  |  |
| MAX J. SWORD                                                                                                          | x |   |        |  |  |  |
| ROSS S. SASAMURA                                                                                                      | x |   |        |  |  |  |
| JADE T. BUTAY                                                                                                         | x |   |        |  |  |  |

ADOPTION OF RESOLUTION NO. 909, 2020 Chair and Members
Board of Water Supply
City and County of Honolulu
Honolulu, Hawaii 96843

Chair and Members:

Subject:

Resolution No. 909, 2020, Amendment to Water System

Revenue Bonds Bond Resolution No. 717, 2001

We recommend adoption of Resolution No. 909, 2020 amending Water System Revenue Bonds Bond Resolution No. 717, 2001 adopted on April 26, 2001, which authorizes and provides for the issuance of revenue bonds of the Board of Water Supply. Resolution No. 717, 2001 set forth covenants for the establishment, maintenance, revision and collection of charges and rates and the collection and disbursement of revenues; created and established certain funds and accounts; and set forth the limitations or conditions upon the issuance of additional bonds.

It is necessary and desirable that Sections 1.01 and 3.04 of the Resolution be amended to: (a) provide an effective replacement for the London Interbank Offered Rate (LIBOR) index upon phase-out of such index; (b) allow for certain subsidy payments received by the federal government to be deducted from the calculation of Debt Service; and (c) provide the Board flexibility in calculating Debt Service for certain types of "balloon indebtedness." The amendments will become effective upon the Board's receipt of consents of all Holders of the Bonds then Outstanding.

Respectfully submitted,

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

Attachment"

DISCUSSION:

Joe Cooper, Waterworks Controller, Finance Division, gave the report.

There were no comments or discussions

# BOARD OF WATER SUPPLY CITY AND COUNTY OF HONOLULU, HAWAII

RESOLUTION NO. 909, 2020 AMENDING BOND RESOLUTION NO. 717, 2001

AMENDMENT TO WATER SYSTEM REVENUE BONDS BOND RESOLUTION NO. 717, 2001

Adopted February 24, 2020

# AMENDMENT TO WATER SYSTEM REVENUE BONDS BOND RESOLUTION NO. 717, 2001

| BE IT RESOLVED by the Board of    | Water Supply of the | e City and County | of Honolulu, |
|-----------------------------------|---------------------|-------------------|--------------|
| Hawaii (the "Board"), as follows: |                     |                   |              |

#### **ARTICLE I**

# RESOLUTION AMENDING WATER SYSTEM REVENUE BONDS BOND RESOLUTION NO. 717, 2001; FINDINGS AND DETERMINATIONS; AND DEFINITIONS

Section 1.01. <u>Amendment to the Water System Revenue Bond Resolution: Findings and Determinations.</u> (1) This resolution amends Resolution No. 717, 2001 duly adopted by the Board on April 26, 2001, as previously amended by Resolution No. 768, 2006 adopted by the Board on May 15, 2006, and Resolution No. 819, 2012 adopted by the Board on February 27, 2012 (the "Resolution").

(2)0 It is hereby found and determined by the Board as follows: (i) that it is necessary and desirable that Sections 1.01 and 3.04 of the Resolution be amended to: (A) provide an effective replacement for the LIBOR index upon phase-out of such index, (B) allow for certain subsidy payments received by the federal government to be deducted from the calculation of Debt Service, and (C) provide the Board flexibility in calculation Debt Service for certain types of "balloon indebtedness"; (ii) the amendments will become effective upon the Board's receipt of consents of all Holders of the Bonds then Outstanding; and (iii) the amendments provided herein are necessary and desirable and are in the best interests of the Board and the users of the Water System.

Section 1.02. <u>Definitions</u>. (1) All terms which are defined in Section 1.01 of the Resolution shall have the same meanings, respectively, in this Resolution as such terms are given in said Section 1.01 of the Resolution, as except as otherwise provided herein.

#### **ARTICLE II**

#### AMENDMENT TO THE RESOLUTION

Section 2.01. Amendment of Section 1.01.

(a)oThe following definitions in Section 1.01 of the Resolution are herebyo amended to read in its entirety as follows:

"Debt Service" means, as of any particular date of computation, with respect to any Bonds and with respect to any period, the aggregate of the amounts to be paid or set aside in such period for the payment (or retirement) of the principal and Redemption Price (if any) of, and interest on, such Bonds; provided, however, that the term "Debt Service" shall not include interest on Bonds to the extent it is to be paid from amounts credited to a Series Capitalized Interest Account, from amounts credited to the Payment Account or from any other source provided for such payment; provided further, however, that in determining the amount of interest coming due during any applicable period on any Series of Bonds that are issued as Interest Subsidy Bonds, amounts equal to Refundable Credits the Board is scheduled to receive during such period shall be deducted from such interest.

"LIBOR" means the rate for deposits in U.S. dollars with one month maturity as published by Reuters (or such other service as may be nominated by the Intercontinental Exchange, for the purpose of displaying London interbank offered rates for U.S. dollar deposits) as of 11:00 a.m., London time, two London Banking Days prior to the Index Reset Date. If at any time LIBOR is permanently or indefinitely unavailable or unascertainable, or ceases to be published by the LIBOR administrator or its successor, a commercially reasonable taxable short-term index generally accepted by interest rate swap market participants as a replacement for LIBOR as a short-term taxable index, shall be used. As part of such substitution. the Calculation Agent will, in its discretion, after consultation with the Board and Bond Counsel, make any technical, administrative or operational changes (including changes to the definitions for each interest rate period hereunder, timing and frequency of determining rates and making payments of interest and other administrative matters), as well as the business day convention, interest determination dates and related provisions and definitions, in each case that are consistent with accepted market practice for the use of such Alternative Rate for the Bonds. Any replacement rate must be an interest based index, variations in the value of which can reasonably be expected to measure contemporaneous variations in the costs of newly borrowed funds in United States Dollars.

(b)eThe following definitions in Section 1.01 of the Resolution are hereby addede as follows:

"Balloon Indebtedness" means indebtedness having an original maturity greater than one year or renewable at the option of the Board for a period of greater than one year from the date of original incurrence or issuance thereof, 25% or more of the original principal of which becomes due (either by maturity or mandatory redemption) or may be tendered for purchase or payment at the option of the holder during any period of 12 consecutive months, which portion of the principal is not required by the documents governing such indebtedness to be amortized below 25% by mandatory redemption prior to such date.

"Build America Bonds" means any bonds or other obligations issued as Build America Bonds under Section 54AA of the Code, or under any other provision of the Code that creates a substantially similar direct-pay subsidy program.

"Calculation Agent" means, for the purposes of the definition of "LIBOR," any Person, financial institution or financial advisory firm appointed by the Board to serve as Calculation Agent for the applicable Series of Bonds.

"Interest Subsidy Bonds" means (a) Build America Bonds, (b) Recovery Zone Economic Development Bonds, or (c) any other any bonds or other obligations issued under any provision or provisions of the Code that create substantially similar direct-pay subsidy programs to such programs with respect to Build America Bonds and Recovery Zone Economic Development Bonds.

OHSUSA:261517821.5

"Person" means an association, corporation, firm, partnership, trust, or other legal entity or group of entities, including a governmental entity or any agency or political subdivision thereof.

"Refundable Credits" means (a) with respect to a Series of Bonds issued as Build America Bonds under Section 54AA of the Code, the amounts which are payable by the Federal government under Section 6431 of the Code, which the Board has elected to receive under Section 54AA(g)(1) of the Code, (b) with respect to a Series of Bonds issued as Recovery Zone Economic Development Bonds under Section 1400U-2 of the Code, the amounts which are payable by the Federal government under Section 6431 of the Code, which the Board has elected to receive under Section 1400U-2 of the Code, and (c) with respect to a Series of Bonds issued as any other type of Interest Subsidy Bonds, o the amounts which are payable by the Federal government under provisions of the Codeo governing a direct-pay subsidy program or programs substantially similar to sucho programs with respect to Build America Bonds and Recovery Zone Economico Development Bonds.o

"Recovery Zone Economic Development Bonds" means any means any bonds or other obligations issued as Recovery Zone Economic Development Bonds under Section 1400U-2 of the Code, or under any other provision of the Code that creates a substantially similar direct-pay subsidy program.

Section 2.02. <u>Amendment of 3.04</u>. Section 3.04 of the Resolution is hereby amended to add section 3.04(E) as follows:

(E)o In determining Debt Service on Balloon Indebtedness then Outstanding and Balloon Indebtedness then proposed to be issued for purposes of the Additional Bonds Requirement, the Board, at its option, may assume that such Balloon Indebtedness is to be amortized over thirty (30) years beginning on the date of maturity of such Balloon Indebtedness or such earlier date as may be specified by the Board, assuming level debt service and the rate of interest on such Balloon Indebtedness.

### **ARTICLE III**

# EFFECTIVENESS OF THIS AMENDMENT TO RESOLUTION; AND EFFECTIVENESS OF OTHER PROVISIONS

Section 3.01. <u>Effectiveness of this Amendment to Resolution; Effectiveness of Other Provisions</u>. (1) The resolution amending the Resolution shall become effective upon the Board's receipt of consents of all Holders of the Bonds then Outstanding.

(2) Except as amended hereby, all of the other provisions of the Resolution shall continue to be effective as the Resolution was originally adopted.

# **INTRODUCED BY:**

Bryan P. Andaya, Chair

Date of Introduction: February 24, 2020

| RESOLUTION NO. 909, 2020, AMENDMENT TO<br>WATER SYSTEM REVENUE BONDS RESOLUTION<br>NO. 717, 2001 ADOPTED ON FEBRUARY 24, 2020 |   |  |        |  |  |
|-------------------------------------------------------------------------------------------------------------------------------|---|--|--------|--|--|
| AYE NO COMMENT                                                                                                                |   |  |        |  |  |
| BRYAN P. ANDAYA                                                                                                               | X |  |        |  |  |
| KAPUA SPROAT                                                                                                                  | х |  |        |  |  |
| KAY C. MATSUI                                                                                                                 |   |  | ABSENT |  |  |
| RAY C. SOON                                                                                                                   | x |  |        |  |  |
| MAX J. SWORD                                                                                                                  | х |  |        |  |  |
| ROSS S. SASAMURA                                                                                                              | x |  |        |  |  |
| JADE T. BUTAY                                                                                                                 | х |  |        |  |  |

The above and foregoing resolution is hereby approved as to form and legality this February 24, 2020.

Corporation Counsel Deputy City and County of Honolulu

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An extra section break has been inserted above this paragraph. Do not delete this section break if you plan to add text after the Table of Contents/Authorities. Deleting this break will cause Table of Contents/Authorities headers and footers to appear on any pages following the Table of Contents/Authorities.

MOTION TO ADOPT RESOLUTION NO. 909, 2020 Jade Butay motioned to adopt Resolution No. 909, 2020, Amendment to Water System Revenue Bond Resolution No. 717, 2001

The motion was seconded by Ross Sasamura and unanimously carried.

| RESOLUTION NO. 909, 20<br>SYSTEM REVENUE BONI<br>2001 ADOPTED ON FEBR | D RESOLU | TION |         |
|-----------------------------------------------------------------------|----------|------|---------|
|                                                                       | AYE      | NO   | COMMENT |
| BRYAN P. ANDAYA                                                       | x        |      |         |
| KAPUA SPROAT                                                          | ×        |      |         |
| KAY C. MATSUI                                                         |          |      | ABSENT  |
| RAY C. SOON                                                           | x        |      |         |
| MAX J. SWORD                                                          | x        |      |         |
| ROSS S. SASAMURA                                                      | ×        |      |         |
| JADE T. BUTAY                                                         | x        |      |         |

## ITEM FOR INFORMATION NO. 1

"February 24, 2020

FINANCIAL

Chair and Members STATEMENTS AND Board of Water Supply

SUPPLEMENTARY INFORMATION

City and County of Honolulu Honolulu, Hawaii 96843

WITH

INDEPENDENT

Chair and Members:

**AUDITORS** REPORT

**ENDED** 

AND 2018

Subject: Financial Statements and Supplementary Information with

FISCAL YEARS Independent Auditors' Report, Fiscal Years Ended

June 30, 2019 and 2018

JUNE 30, 2019

Our auditors, N&K CPAs, Inc., have completed the audit of the financial statements and federal awards of the Board of Water Supply and issued an unmodified opinion. They have indicated that there are no weaknesses on internal control over financial reporting.

Attached is the auditors' required communication letter dated October 31, 2019. Copies of the financial statements of the Board of Water Supply and the reports thereon by N&K CPAs, Inc., covering the results of their examination of the accounts and financial status of the Board of Water Supply for the years ended June 30, 2019 and 2018 as required under Article VII, Section 7-108 of the Revised Charter, are also attached.

Lawrence Chew and Ryan Iwane from N&K CPAs, Inc. will present highlights from the auditors' report.

Respectfully submitted,

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

Attachments"

The foregoing was for information only.

DISCUSSION:

Joseph Cooper, Waterworks Controller, Finance Division, gave the report.

Manager Ernest Lau commented that in advance the audit was distributed to the Board members to review before this meeting.

Mr. Ryan Iwane expressed his appreciation to Manager Lau and Mr. Cooper for their assistance with the audit.

Manager Lau also expressed appreciation to Mr. Iwane and Mr. Chu for their expertise and efficiency in completing the audit for the BWS.





**City and County of Honolulu** 

Single Audit for the Fiscal Year Ended June 30, 2019

# Scope of Services

- To express an opinion on the fair presentation of the Board of Water Supply's financial statements as of and for the fiscal year ended June 30, 2019.
- To express an opinion on compliance with applicable federal requirements that could have a direct and material effect on each of the Board of Water Supply's major federal programs for the fiscal year ended June 30, 2019.
- Our audit was performed in accordance with auditing standards generally accepted in the United States of America, the standards applicable to financial audits contained in *Government Auditing* Standards, and the audit requirements of the Uniform Guidance (Title 2 CFR Part 200)

# Summary of Auditor's Results

# **Financial Statements**

| Type of report the auditor issued on whether the financial statements audited were prepared in accordance with GAAP:    | Unmodified   |          |                     |
|-------------------------------------------------------------------------------------------------------------------------|--------------|----------|---------------------|
| Internal control over financial reporting:                                                                              | Offiniodined |          |                     |
| Material weakness(es) identified? Significant deficiency(ies) identified?                                               | yes<br>yes   | <u>√</u> | no<br>none reported |
| Noncompliance material to financial statements noted?                                                                   | yes          | <b>✓</b> | no                  |
| Federal Awards                                                                                                          |              |          |                     |
| Internal control over major federal programs: Material weakness(es) identified? Significant deficiency(ies) identified? | yes<br>yes   | <b>✓</b> | no<br>none reported |
| Type of auditor's report issued on compliance for major federal programs:                                               | Unmodified   |          |                     |
| Any audit findings disclosed that are required to be reported in accordance with 2 CFR                                  |              | ./       |                     |
| 200.516(a)?                                                                                                             | yes          | •        | no                  |

# Summary of Auditor's Results (Continued)

Identification of major federal programs:

| <u>CFDA Number</u>                                                       | Name of Federal Program or Cluster                             |
|--------------------------------------------------------------------------|----------------------------------------------------------------|
| 66.468                                                                   | Capitalization Grants for Drinking Water State Revolving Funds |
| Dollar threshold used to distinguish between type A and type B programs: | \$750,000                                                      |
| Auditee qualified as a low-risk auditee?                                 | √ yes no                                                       |

# **SECTION II - FINANCIAL STATEMENT FINDINGS**

No matters were reported.

# **SECTION III - FEDERAL AWARD FINDINGS AND QUESTIONED COSTS**

No matters were reported.

# Required Communication with Those Charged with Governance at the Conclusion of the Audit

- Auditor's views about the BWS's significant accounting policies, sensitive accounting estimates and financial statement disclosures.
- No significant difficulties were encountered during the audit.
- No disagreements with management about financial accounting, reporting, or auditing matters arose during the course of the audit.
- None of the misstatements detected as a result of audit procedures were considered material, either individually or in the aggregate, to the BWS's financial statements taken as a whole.







October 31, 2019

Board of Directors Board of Water Supply City and County of Honolulu 630 South Beretania Street Honolulu, Hawaii 96843

We have audited the financial statements of the Board of Water Supply ("BWS"), a component unit of the City and County of Honolulu, as of and for the fiscal years ended June 30, 2019 and 2018. Professional standards require that we provide you with information about our responsibilities under auditing standards generally accepted in the United States of America, *Government Auditing Standards* and the Uniform Guidance, as well as certain information related to the planned scope and timing of our audit. We have communicated such information in our letter to you dated August 1, 2019. Professional standards also require that we communicate to you the following information related to our audit.

#### Significant Audit Matters

#### Qualitative Aspects of Accounting Practices

Management is responsible for the selection and use of appropriate accounting policies. The significant accounting policies used by the BWS are described in Note B to the financial statements. In 2019, the BWS adopted the provisions of Government Accounting Standards Board Statement No. 88, Certain Disclosures Related to Debt, including Direct Borrowings and Direct Placements. This statement defines debt for purposes of disclosure in notes to financial statements and establishes additional financial statement note disclosure requirements related to debt obligations of governments, including direct borrowings and direct placements. No other new accounting policies were adopted and the application of existing policies was not changed during 2019. We noted no transactions entered into by the Board of Water Supply during the year for which there is a lack of authoritative guidance or consensus. All significant transactions have been recognized in the financial statements in the proper period.

Accounting estimates are an integral part of the financial statements prepared by management and are based on management's knowledge and experience about past and current events and assumptions about future events. Certain accounting estimates are particularly sensitive because of their significance to the financial statements and because of the possibility that future events affecting them may differ significantly from those expected. The most sensitive estimates affecting the BWS's financial statements were:

- 1.e Valuation allowance for receivablese
- 2.e Depreciation of capital assetse
- 3.e Net pension liabilitye
- 4.e Postemployment benefits other than pensions (OPEB) liabilitye
- 5.e Accrued workers' compensation liabilitye

Management's estimate of the valuation allowances for receivables is based on historical collection experience and the length of time individual receivables are past due. We evaluated the key factors and assumptions used for the valuation allowance in determining that it is reasonable in relation to the financial statements taken as a whole.

# N&K CPAs, Inc. ACCOUNTANTS | CONSULTANTS

Board of Directors Board of Water Supply Page 2

Management's estimate of depreciation recorded on capital assets is based in part on the estimated useful lives of those capital assets. We evaluated the key factors and assumptions used to estimate depreciation of the Board of Water Supply's capital assets in determining that it is reasonable in relation to the financial statements taken as a whole.

The collective net pension liability, deferred inflows of resources, and deferred outflows of resources of the cost-sharing multiple employer defined pension plan administered by the State of Hawai'i's Employee Retirement System was determined by an actuarial valuation. The BWS's proportionate share of the collective net pension liability, deferred inflows of resources, deferred outflow of resources was based on the BWS's contributions to the pension plan relative to the contributions of all participating employers during the measurement period. We evaluated the key factors and assumptions used to estimate the BWS's proportionate share of the collective net pension liability, deferred inflows of resources, deferred outflow of resources in determining that it is reasonable in relation to the financial statements taken as a whole

The net OPEB liability was measured as the portion of the actuarial present value of projected benefit payments that is attributed to past periods of employee service, net of the OPEB plan's fiduciary net position. We evaluated the key factors and assumptions used to estimate the net OPEB liability and related deferred inflows of resources, deferred outflows of resources, and OPEB expense in determining that it is reasonable in relation to the financial statements taken as a whole.

The accrued workers' compensation liability was determined using an actuarial analysis performed by a third-party specialist. We evaluated the key factors and assumptions used to estimate the accrued workers' compensation liability in determining that it is reasonable in relation to the financial statements taken as a whole.

Certain financial statement disclosures are particularly sensitive because of their significance to financial statement users. The most sensitive disclosure affecting the financial statements was the disclosure of the net pension and OPEB liability and related expense of the BWS in Note M to the financial statements. The net pension and OPEB liability were both determined by an actuarial valuation that required the use of several significant actuarial assumptions, which are also described in Note M.

The financial statement disclosures are neutral, consistent, and clear.

Difficulties Encountered in Performing the Audit

We encountered no significant difficulties in dealing with management in performing and completing our audit.

Corrected and Uncorrected Misstatements

Professional standards require us to accumulate all known and likely misstatements identified during the audit, other than those that are clearly trivial, and communicate them to the appropriate level of management. The attached schedule summarizes uncorrected misstatements of the financial statements. Management has determined that their effects are immaterial, both individually and in the aggregate, to the financial statements taken as a whole. In addition, none of the misstatements detected as a result of audit procedures and corrected by management were material, either individually or in the aggregate, to the BWS's financial statements taken as a whole.

### N&K CPAs, Inc.

ACCOUNTANTS | CONSULTANTS

Board of Directors Board of Water Supply Page 3

### Disagreements with Management

For purposes of this letter, a disagreement with management is a financial accounting, reporting, or auditing matter, whether or not resolved to our satisfaction, that could be significant to the financial statements or the auditor's report. We are pleased to report that no such disagreements arose during the course of our audit.

### Management Representations

We have requested certain representations from management that are included in the management representation letter dated October 31, 2019.

### Management Consultations with Other Independent Accountants

In some cases, management may decide to consult with other accountants about auditing and accounting matters, similar to obtaining a "second opinion" on certain situations. If a consultation involves application of an accounting principle to the BWS's financial statements or a determination of the type of auditor's opinion that may be expressed on those statements, our professional standards require the consulting accountant to check with us to determine that the consultant has all the relevant facts. To our knowledge, there were no such consultations with other accountants.

### Other Audit Findings or Issues

We generally discuss a variety of matters, including the application of accounting principles and auditing standards, with management each year prior to retention as the BWS's auditors. However, these discussions occurred in the normal course of our professional relationship and our responses were not a condition to our retention.

### Other Matters

We applied certain limited procedures to management's discussion and analysis and the schedules of proportionate share of the net pension liability, contributions (pension), changes in the net OPEB liability and related ratios, and contributions (OPEB), which are required supplementary information (RSI) that supplements the basic financial statements. Our procedures consisted of inquiries of management regarding the methods of preparing the information and comparing the information for consistency with management's responses to our inquiries, the basic financial statements, and other knowledge we obtained during our audit of the basic financial statements. We did not audit the RSI and do not express an opinion or provide any assurance on the RSI.

We were engaged to report on the schedules of expenditures of federal awards, bonds payable and net revenue requirement, which accompany the financial statements but are not RSI. With respect to this supplementary information, we made certain inquiries of management and evaluated the form, content, and methods of preparing the information to determine that the information complies with accounting principles generally accepted in the United States of America, the method of preparing it has not changed from the prior period, and the information is appropriate and complete in relation to our audit of the financial statements. We compared and reconciled the supplementary information to the underlying accounting records used to prepare the financial statements or to the financial statements themselves.

### N&K CPAs, Inc. ACCOUNTANTS | CONSULTANTS

Board of Directors Board of Water Supply Page 4

We were not engaged to report on the introductory section, which accompanies the financial statements but is not RSI. Such information has not been subjected to the auditing procedures applied in the audit of the basic financial statements, and accordingly, we do not express an opinion or provide any assurance on it.

### Restriction on Use

This information is intended solely for the information and use of the board of directors and management of the BWS and is not intended to be, and should not be, used by anyone other than these specified parties.

Sincerely,

N+K CPAS, INC.

N&K CPAs, Inc.

LMTC:ri Enclosures

### N&K CPAs, Inc. ACCOUNTANTS | CONSULTANTS

Board of Directors Board of Water Supply Page 5

### Summary of Uncorrected Misstatements

| Account               | <u>Description</u>                                                              | <u>Debit</u> | <u>Credit</u> |
|-----------------------|---------------------------------------------------------------------------------|--------------|---------------|
| Proposed Journa       | al Entries JE # 209                                                             |              |               |
| To record the initial | al asset retirement obligation related to underground fuel tanks located at the |              |               |
| Kalihi Yard.          |                                                                                 |              |               |
| 2910                  | RETAINED EARNINGS                                                               | 219,267.00   |               |
| 4915                  | MISCELLANEOUS FINANCIAL EXPE                                                    | 8,433.00     |               |
| NK8                   | Deferred Outlfows of Resources - ARO                                            | 25,300.00    |               |
| NK7                   | Asset Retirement Obligation                                                     |              | 253,000.00    |
| Total                 |                                                                                 | 253,000.00   | 253,000.00    |

### Board of Water Supply City and County of Honolulu

### FINANCIAL STATEMENTS AND SUPPLEMENTARY INFORMATION WITH INDEPENDENT AUDITOR'S REPORT

Fiscal Years Ended June 30, 2019 and 2018

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

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The Board of Water Supply of the City and County of Honolulu (BWS) is pleased to present its Annual Financial Report for fiscal year 2019. This introduction provides a brief overview of the mission, organization, and operations of the BWS. The following management's discussion and analysis is intended to provide the reader with an easily understandable analysis of the BWS's financial performance and all aspects of its financial position. Financial statements presenting the financial position, results of operations, and cash flows of the BWS in conformity with accounting principles generally accepted in the United States of America, accompanied by the independent auditor's report, follows the management's discussion and analysis.

### HISTORY OF THE BOARD OF WATER SUPPLY

The BWS was created in 1929 by the Territorial Legislature in response to public outcry for a truly effective water management system that was above politics. The 1929 Legislature passed Act 96 to create and define the powers and duties of the Honolulu Board of Water Supply. Although it remained as a department of the City and County of Honolulu (City), the BWS was designed to be a semi-autonomous and self-supporting agency with the authority to charge for water usage to support its capital improvement and operating expenses and set long-term plans for Oahu's water future.

### **POWERS, DUTIES, AND FUNCTIONS**

The BWS manages Oahu's municipal water resources and distribution system, providing residents with a safe, dependable, and affordable drinking water supply.

The BWS is the largest municipal water utility in the state of Hawaii. In fiscal year 2019, the BWS delivered potable and non-potable water to approximately one million customers on Oahu. The BWS carefully and proactively manages and invests in its intricate system, consisting of 94 active potable water sources, 171 reservoirs, and over 2,100 miles of pipeline.

The BWS is a financially self-sufficient, semi-autonomous agency of the City and County of Honolulu. Its operations and projects are financed with revenues generated by water transmission and distribution fees. It receives no tax money from the City. The BWS also pursues federal and state grants to help subsidize BWS projects.

The BWS is governed by a Board of Directors (Board), consisting of seven members. Five members are appointed by the Mayor and are confirmed by the Honolulu City Council. The remaining two serve in their capacities as the Director of the State Department of Transportation, and the Director and Chief Engineer of the City's Department of Facility Maintenance. The Board appoints the BWS Manager and Chief Engineer to administer the BWS.

The BWS consists of the following 10 divisions: Capital Projects Division, Customer Care Division, Field Operations Division, Finance Division, Information Technology Division, Land Division, Office of the Manager and Chief Engineer, Water Quality Division, Water Resources Division, and Water System Operations Division.

### **MISSION**

The BWS mission is to provide a safe, dependable, and affordable water supply now and into the future, focusing in three strategic areas: resource, operational, and financial sustainability.

- •e Resource Sustainability (Safe). Protect, conserve and manage Oahu's water suppliese and watersheds now and into the future through adaptive and integrated strategies.e
- •e Operational Sustainability (Dependable). Build an effective organization thate continuously works to improve dependable service.e
- •e Financial Sustainability (Affordable). Implement sound fiscal strategies to provide safe,e dependable and affordable water service.e

### **ACCOMPLISHMENTS**

BWS employees work diligently to provide safe, dependable, and affordable water service to customers by concentrating their efforts to achieve the BWS's strategic goals:

### Resource Sustainability (Safe)

- •e Conducted 40,079 chemical tests, 34,056 microbiological tests, and collected 16,888e samples from BWS sources, distribution systems and treatment facilities to ensure alle water served is safe to drink; tests performed during Fiscal Year 2019 include regulatorye compliance testing, groundwater quality testing, and response to customer inquiriese about water quality; BWS continues to monitor the Red Hill Fuel Storage Facilities ande provide input to the Administrative Order of Consent as subject matter experts.e
- •e In June 2019, BWS completed its annual production and delivery of the Consumere Confidence Report (CCR), also known as the Water Quality Report, to all BWSe customers. The report provides information on the quality of the water delivered from thee BWS system and was mailed to all customers on record and is also available ate <a href="https://www.boardofwatersupply.com">www.boardofwatersupply.com</a>. The BWS also placed ads in Honolulu newspapers,e including various ethnic language publications, to inform community members of thee distribution.e
- •e Expansion of the Honouliuli Water Recycling Facility R-1 is underway, which wille increase irrigation treatment capacity by two million gallons a day (mgd), for a total of 10e mgd of recycled water; new disk filters will replace the sand filters, which will result ine decreased effluent loss during backwashing, create more beneficial reuse water, ande reduce the maintenance cost associated with the sand filters; the new UV disinfectione system is significantly more energy efficient and will reduce electricity costs and thee carbon footprint; and the additional recycled water will provide irrigation water for newe Ewa developments and conserve the limited freshwater resource.e

- •a BWS's new water conservation rebate program for efficient clothes washing machines, a rain barrels, and weather-based irrigation controllers resulted in the issuance of \$143,330 in rebates and an annual estimated freshwater savings of more than 12 milliona gallons per year.a
- •a BWS is pursuing three loi kalo restoration projects on BWS lands in Makaha, Waihee,a and Manoa; these agricultural farms have watershed protection and culturala components; a community nonprofit group is evaluated and selected through an RFPa process; and this effort builds community support of the BWS mission for the protectiona and management of Oahu's freshwater resources.a
- •a In collaboration with the Water Research Foundation, completed a climate changea vulnerability assessment of Oahu's water supply from future droughts, and coastal watera system infrastructure subject to sea level rise and coastal erosion.a
- •a BWS staff held 29 outdoor water conservation classes at the Halawa Xeriscape Garden.a 560 community members attended these classes focused on reducing water usea through efficient landscaping.a
- •a The BWS sponsored its 41st annual Water Conservation Week Poster Contest and thea 11th annual Water Conservation Week Poetry Contest, receiving more than 974 postersa and 442 poems from 51 Oahu schools, focused on the theme "Do Your Part, Be Watera Smart. All winning entries will be featured in the 2020 Water Conservation Calendara scheduled for distribution in December 2019.a

### Operational Sustainability (Dependable)

- •a The BOD adopted the revision to the Schedule of Rates and Changes for the Furnishinga of Water and Water Service for fiscal years 2019-2023, which supports city initiatives by a providing limited waivers for affordable and homeless dwellings and for residential firea sprinkler retrofits, and the first rate change under this revised schedule begins July 1,a 2019.a
- •a May 2019 marked the fourth year of the Stakeholder Advisory Group (SAG) a groupa comprised of nearly 30 local residents, civic organization leaders, and business anda environmental professionals, covering all City Council districts whose purpose is toa provide important feedback on the BWS Water Master Plan, financial plan, proposeda rate study and other important initiatives such as water conservation, recycled water anda watershed management; and the SAG effort demonstrates the BWS commitment toa increase responsiveness and transparency of public engagement and communications.a
- Responded to 330 main breaks, or about 16 breaks per 100 miles of pipeline, anda conducted leak detection surveys for 372 miles of pipeline, which resulted in the Leaka Detection Team finding and repairing 50 leaks before major property damages or systema interruptions occurred.a

- •a Developed a spatial main break analysis tool to provide increased insights for improvinga the construction and operation of the water system by correlating past main breaks withat various factors such as pipe size, type, and age, soil type and pressure, and presenting the information in a geospatial, map-based context.a
- •a BWS staff helped protect Oahu's water resources and prevent damage to BWSa infrastructure by handling 11,812 One Call locate requests and providing in-field supporta for 684 water line leaks and breaks. The BWS staff proactively investigated 24,371a meters to ensure accurate and timely billing and assisted 4,708 customers with concernsa about bills reflecting high water consumption. BWS staff assisted 149,121a customers: 132,134 (88.6%) by phone; 4,216 (2.8%) in-person; 12,560 (8.4%) via weba requests; 211 (0.1%) by mail and fax.a

### Financial Sustainability (Affordable)

- As of June 30, 2019, awarded \$57 million in construction contracts and \$22.5 million ina professional service contracts for projects to maintain and improve water systema facilities, including:a
  - oa Well and booster stations, reservoirs and corporation yards, and for the systematica replacement of aging and corroded water mains and fire protection improvements;a
  - oa Scheduled construction work for the replacement of approximately eight miles of pipelines in the Hawaii Kai, Honolulu, Kailua, Makapuu, Makiki, Moanalua, Pacifica Heights, Pearl City, Waianae, and Waiau areas;a
  - oa Initiated design work for future construction in the Aiea, Ala Moana, Ewa Beach,a Hauula, Honolulu, Kalama Valley, Kaneohe, Manoa, Pupukea, Waianae, anda Waipahu areas;a
  - oa Renovation and improvements to the following BWS facilities: Aina Koa 1100a Reservoir, Diamond Head 180 Reservoir, Haleiwa Wells, Hoaeae Wells, Kalihia Corporation Yard, Kamehame 820 Reservoir, Kunia Booster, Makaha Wells VI,a Mililani Wells IV, Newtown Wells, Niu Valley Highlands 297 Reservoir, Wahiawaa Wells I and II, Waialae Wells I, Waialae Iki 180 Reservoir, Waimanalo 230a Reservoir, and Wilder Wells,a
- •a BWS staff received mail-in payments via lockbox, which continued to be the mosta popular method of payment for BWS customers, with 33.1% using the service, downa 1.7% from last fiscal year. Automatic bill payments account for 32.2% of the BWS' totala bill collections. Credit card payments account for 17.9% of payments, a 1.5% increasea over last fiscal year. Online payments account for 8.7%, walk-in customers for 4.2%, a payments made at satellite city hall locations for 2.2%, and other accounts for 1.7% of a payments received.a



### INDEPENDENT AUDITOR'S REPORT

To the Board of Directors
Board of Water Supply
City and County of Honolulu

### **Report on the Financial Statements**

We have audited the accompanying financial statements of the Board of Water Supply (the "BWS"), a component unit of the City and County of Honolulu (the "City"), as of and for the fiscal years ended June 30, 2019 and 2018, and the related notes to the financial statements, which collectively comprise the BWS's basic financial statements as listed in the table of contents.

### Management's Responsibility for the Financial Statements

Management is responsible for the preparation and fair presentation of these financial statements in accordance with accounting principles generally accepted in the United States of America; this includes the design, implementation, and maintenance of internal control relevant to the preparation and fair presentation of financial statements that are free from material misstatement, whether due to fraud or error.

### **Auditor's Responsibility**

Our responsibility is to express an opinion on these financial statements based on our audits. We conducted our audits in accordance with auditing standards generally accepted in the United States of America and the standards applicable to financial audits contained in *Government Auditing Standards*, issued by the Comptroller General of the United States. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free from material misstatement.

An audit involves performing procedures to obtain audit evidence about the amounts and disclosures in the financial statements. The procedures selected depend on the auditor's judgment, including the assessment of the risks of material misstatement of the financial statements, whether due to fraud or error. In making those risk assessments, the auditor considers internal control relevant to the entity's preparation and fair presentation of the financial statements in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the entity's internal control. Accordingly, we express no such opinion. An audit also includes evaluating the appropriateness of accounting policies used and the reasonableness of significant accounting estimates made by management, as well as evaluating the overall presentation of the financial statements.

N&K CPAs, Inc.
ACCOUNTANTS | CONSULTANTS

We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our audit opinion.

### **Opinion**

In our opinion, the financial statements referred to above present fairly, in all material respects, the financial position of the BWS as of June 30, 2019 and 2018, and the changes in its financial position and its cash flows for the fiscal years then ended in accordance with accounting principles generally accepted in the United States of America.

### Other Matters

### Required Supplementary Information

Accounting principles generally accepted in the United States of America require that management's discussion and analysis on pages 10 through 15 and the schedules of proportionate share of the net pension liability, contributions (pension), changes in the net OPEB liability and related ratios, and contributions (OPEB) on pages 56 to 62 be presented to supplement the basic financial statements. Such information, although not a part of the basic financial statements, is required by the Governmental Accounting Standards Board who considers it to be an essential part of financial reporting for placing the basic financial statements in an appropriate operational, economic, or historical context. We have applied certain limited procedures to the required supplementary information in accordance with auditing standards generally accepted in the United States of America, which consisted of inquiries of management about the methods of preparing the information and comparing the information for consistency with management's responses to our inquiries, the basic financial statements, and other knowledge we obtained during our audit of the basic financial statements. We do not express an opinion or provide any assurance on the information because the limited procedures do not provide us with sufficient evidence to express an opinion or provide any assurance.

### Other Information

Our audit was conducted for the purpose of forming an opinion on the financial statements that comprise the BWS's basic financial statements. The introduction and schedules of bonds payable and net revenue requirement are presented for purposes of additional analysis and are not a required part of the basic financial statements.

The schedules of bonds payable and net revenue requirement are the responsibility of management and were derived from and relate directly to the underlying accounting and other records used to prepare the basic financial statements. Such information has been subjected to the auditing procedures applied in the audit of the basic financial statements and certain additional procedures, including comparing and reconciling such information directly to the underlying accounting and other records used to prepare the basic financial statements or to the basic financial statements themselves, and other additional procedures in accordance with auditing standards generally accepted in the United States of America. In our opinion, the schedules of bonds payable and net revenue requirement are fairly stated, in all material respects, in relation to the basic financial statements as a whole.

The introduction has not been subjected to the auditing procedures applied in the audit of the basic financial statements, and accordingly, we do not express an opinion or provide any assurance on it.

### Other Reporting Required by Government Auditing Standards

In accordance with *Government Auditing Standards*, we have also issued our report dated October 31, 2019 on our consideration of the BWS's internal control over financial reporting and on our tests of its compliance with certain provisions of laws, regulations, contracts, and grant agreements and other matters. The purpose of that report is solely to describe the scope of our testing of internal control over financial reporting and compliance and the results of that testing, and not to provide an opinion on the effectiveness of the BWS's internal control over financial reporting or on compliance. That report is an integral part of an audit performed in accordance with *Government Auditing Standards* in considering the BWS's internal control over financial reporting and compliance.

N+K CPAS, INC.

Honolulu, Hawaii October 31, 2019

This section presents management's discussion and analysis of the BWS's financial condition and activities for the fiscal year ended June 30, 2019. This information should be read in conjunction with the BWS's basic financial statements.

### **Financial Highlights**

The BWS maintains a relatively strong financial performance with a manageable capital program. Meanwhile, management continues to carefully evaluate the BWS's finances to ensure optimum performance. In addition to meeting all debt covenants, outstanding debt and cash reserves were kept at levels appropriate for maintaining favorable bond ratings. Key financial highlights are listed below:

- •e Net position increased \$46.2 million in fiscal year 2019 compared to the 46.2 millione increase in fiscal year 2018.e
- •e Total assets were \$1.7 billion in fiscal year 2019 and \$1.6 billion in fiscal year 2018, whiche exceeded liabilities by \$1.2 billion and \$1.1 billion at June 30, 2019 and 2018, respectively.e
- •e The BWS's unrestricted current assets at June 30, 2019 were 5.5 times its related currente liabilities compared to 4.7 times at June 30, 2018.e
- •e The BWS's debt to equity ratio was 25.5% and 26.2% at June 30, 2019 and 2018,e respectively, indicating the continuance of capacity to issue additional debt.e

### **Overview of the Financial Statements**

The BWS is a semi-autonomous agency of the City. The financial statements are presented using the economic resources measurement focus and the accrual basis of accounting, whereby revenues and expenses are recognized in the period earned or incurred.

Management's discussion and analysis ("MD&A") represents management's analysis and comments on the BWS's financial condition and performance. Summary financial data, key financial and operational indicators used in the BWS's annual report, budget, bond resolutions, and other management tools were used for this analysis.

The basic financial statements include the statement of net position, statement of revenues, expenses and changes in net position, statement of cash flows, and notes to the financial statements. The statement of net position presents the resources and obligations of the BWS as of the end of the reporting period. The statement of revenues, expenses and changes in net position presents the changes in net position for the fiscal year then ended, and the resultant ending net position balance.

The statement of cash flows present changes in cash and cash equivalents (short-term investments with original maturities of three months or less from the date of acquisition), resulting from operating, investing, capital and related financing activities, and non-capital financing activities.

### Results of Operations

### CONDENSED STATEMENTS OF REVENUES, EXPENSES AND CHANGES IN NET POSITION (Amounts in thousands)

|                                        |    | 2019    | <br>2018      | % Change |
|----------------------------------------|----|---------|---------------|----------|
| Operating revenues                     | \$ | 228,662 | \$<br>232,378 | -1.6%    |
| Operating expenses                     |    |         |               |          |
| Administrative and general             |    | 72,031  | 70,494        | 2.2%     |
| Depreciation                           |    | 47,266  | 47,337        | -0.1%    |
| Power and pumping                      |    | 35,139  | 32,065        | 9.6%     |
| Other operating expenses               |    | 49,563  | 47,850        | 3.6%     |
| Total operating expenses               |    | 203,999 | 197,746       | 3.2%     |
| Operating income                       |    | 24,663  | 34,632        | -28.8%   |
| Nonoperating revenues (expenses)       |    |         |               |          |
| Interest income                        |    | 7,549   | 6,097         | 23.8%    |
| Interest expense                       |    | (9,661) | (9,837)       | -1.8%    |
| Others                                 |    | 10,710  | (6,169)       | -273.6%  |
| Total nonoperating revenues (expenses) |    | 8,598   | (9,909)       | -186.8%  |
| Contributions in aid of construction   | ,  | 12,976  | 21,509        | -39.7%   |
| Change in net position                 | \$ | 46,237  | \$<br>46,232  |          |

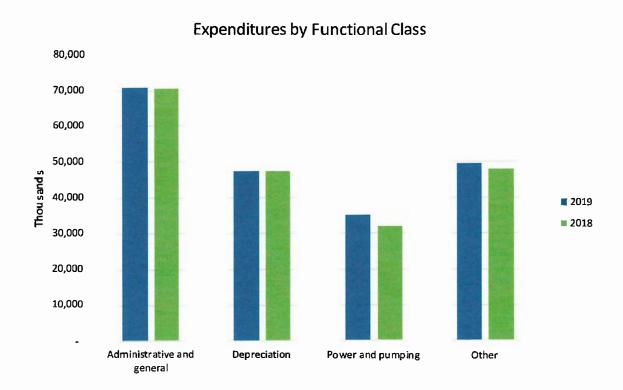
The increase in net position for the fiscal year ended June 30, 2019 was \$46.2 million, compared to an increase of \$46.2 million for the fiscal year ended June 30, 2018.

Operating revenues for the fiscal year ended June 30, 2019 totaled \$228.7 million, a decrease of \$3.7 million or 1.6% from the fiscal year ended June 30, 2018. This was mainly due to a decrease in agriculture and single family residential water consumption.

Total operating expenses increased by \$6.2 million in fiscal year 2019. Factors contributing to this change are explained below:

- Power and pumping expenses increased by \$3.1 million in fiscal year 2019 mainly due to increases in electricity costs.
- Other operating expenses increased by \$1.7 million during fiscal year 2019 mainly due to the increase in transmission and distribution costs.

For the fiscal year ended June 30, 2019, net nonoperating revenue increased by \$18.5 million. This was the result of an increase in interest income of \$1.4 million and an increase in net realized and unrealized gain on investments of \$17.1 million.



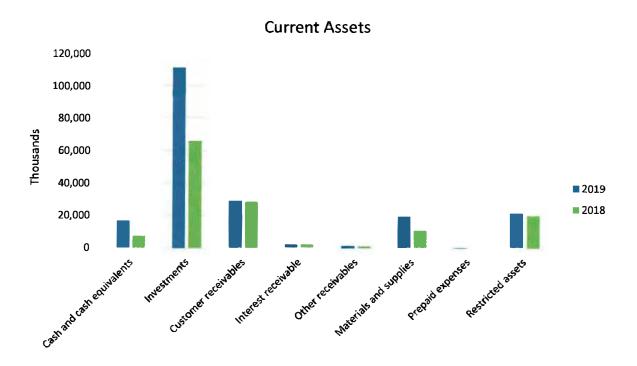
Contributions in aid of construction result from Water System Facilities Charges (WSFC) that are levied against all new developments and residential properties requiring water from the BWS's systems, except those developments that have paid for and installed a complete water system, including sources, transmission, and daily storage facilities. In addition, contributions of capital assets from governmental agencies, developers and customers are recorded as contributions in aid of construction at their cost. The BWS realized contributions in aid of construction of \$13.0 million in fiscal year 2019 compared to \$21.5 million in fiscal year 2018. The decrease was primarily due to decreases in contributions by private developers of \$3.8 million and WSFC revenue of \$3.3 million. During the fiscal year ended June 30, 2019 the major developments were Kalaeloa Boulevard Improvements and Hoopili Phase 3, Parcels 5 and 6.

### Financial Condition

### CONDENSED STATEMENTS OF NET POSITION (Amounts in thousands)

|                                                  | <br>2019        | <br>2018        | % Change      |
|--------------------------------------------------|-----------------|-----------------|---------------|
| Current assets                                   | \$<br>200,951   | \$<br>135,696   | 48.1%         |
| Noncurrent assets                                |                 |                 |               |
| Capital assets, net                              | 1,188,906       | 1,150,029       | 3.4%          |
| Investments                                      | 283,878         | 320,355         | -11.4%        |
| Restricted and other assets                      | 24,351          | 22,408          | 8.7%          |
| Total assets                                     | 1,698,086       | 1,628,488       | 4.3%          |
| Deferred outflows of resources                   | 53,064          | 57,873          | -8.3%         |
| Total assets and deferred outflows of resources  | \$<br>1,751,150 | \$<br>1,686,361 | 3.8%          |
| Current liabilities                              | \$<br>54,045    | \$<br>44,731    | 20.8%         |
| Noncurrent liabilities                           |                 |                 |               |
| Bonds payable, noncurrent                        | 213,780         | 224,342         | <b>-</b> 4.7% |
| Notes payable, noncurrent                        | 78,163          | 64,255          | 21.6%         |
| Net pension liability                            | 120,348         | 113,350         | 6.2%          |
| Net OPEB liability                               | 73,128          | 74,722          | -2.1%         |
| Other liabilities                                | 1,766           | 11,993          | -1.9%         |
| Total liabilities                                | 551,230         | 533,393         | 3.3%          |
| Deferred inflows of resources                    | 6,408           | 5,693           | 12.6%         |
| Net position                                     |                 |                 |               |
| Net investment in capital assets                 | 914,739         | 882,809         | 3.6%          |
| Restricted for capital activity and debt service | 22,147          | 18,117          | 22.2%         |
| Unrestricted                                     | 256,626         | 246,349         | 4.2%          |
| Total net position                               | 1,193,512       | 1,147,275       | 4.0%          |
| Total liabilities, deferred inflows of resources |                 |                 |               |
| and net position                                 | \$<br>1,751,150 | \$<br>1,686,361 | 3.8%          |

The BWS's current assets were 3.8 and 3.0 times its related current liabilities as of June 30, 2019 and 2018, respectively. The ratio increase at June 30, 2019 was due to an increase in cash and cash equivalents as well as investments.



As of June 30, 2019, net capital assets increased by \$38.9 million. The increase in fiscal year 2019 was primarily from the additions to construction work in progress.

Restricted and other assets increased by \$1.9 million in fiscal year 2019. The increase is primarily due to an increase in cash and cash equivalents.

Bonds payable decreased by \$10.3 million as of June 30, 2019. The decrease represents scheduled debt service payments and the amortization of bond premiums during fiscal year 2019.

Notes payable increased by \$14.9 million as of June 30, 2019. The increase is primarily due to the receipt of loan proceeds for projects utilizing financing from the state revolving fund loan program totaling \$18.0 million.

The net pension liability increased by \$7.0 million as of June 30, 2019 which was mainly due to an increase in the BWS's proportionate share of the collective net pension liability and unfavorable differences between expected and actual experience with regard to economic or demographic factors.

The net OPEB liability decreased by \$1.6 million as of June 30, 2019, which was mainly due to favorable differences between projected and actual earnings on OPEB plan investments and employer contributions exceeding the minimum required contribution in fiscal year 2018.

### Capital Assets and Long-Term Debt

During fiscal years 2019 and 2018, the BWS capitalized \$50.9 million and \$37.3 million, respectively, to its utility plant in service. Major assets added in fiscal year 2019 were Wilhelmina Rise Water System Improvements, Part IV, \$6.5 million; Energy Savings Performance Contract, \$5.4 million; Kalihi Water System Improvements, Part III, \$4.9 million; Liliha Water System Improvements, \$2.8 million; and Makakilo 920' and Waipahu 228' No. 2 Reservoir Facility Repairs \$2.7 million.

The BWS issues long-term bonds to finance part of its capital improvement program. The BWS's debt to equity ratio has remained fairly constant at 25.5%, 26.2% and 26.7% for fiscal years 2019, 2018, and 2017, respectively.

All outstanding bonds have been assigned underlying ratings of Aa2 from Moody's Investors Service and AA+ from Fitch Ratings.

### Rate Covenant

The BWS is required under its bond indenture, among other things, to fix, charge and collect such rates and other charges in each fiscal year to meet the net revenue requirement for such fiscal year. The net revenue requirement is the greater of 1) the sum of the aggregate debt service and all deposits required by bond resolution to be made, or 2) 1.20 times the aggregate debt service. The BWS met the net revenue requirements for the fiscal years ended June 30, 2019 and 2018.

### Request for Information

This financial report is designed to provide a general overview of the BWS's finances. Questions concerning any of the information provided in this report or requests for additional financial information should be addressed to the Board of Water Supply, City and County of Honolulu, 630 S. Beretania Street, Honolulu, Hawaii 96813.

## Board of Water Supply City and County of Honolulu STATEMENTS OF NET POSITION June 30, 2019 and 2018

|                                                      | 2019                    | 2018                |
|------------------------------------------------------|-------------------------|---------------------|
| ASSETS                                               |                         |                     |
| Current assets                                       |                         |                     |
| Cash and cash equivalents                            | \$ 16,736,721           | \$ 7,343,537        |
| Investments                                          | 111,033,472             | 65,688,974          |
| Interest receivable                                  | 1,982,363               | 1,946,243           |
| Customer receivables                                 |                         |                     |
| Billed, less allowance for uncollectible accounts of |                         |                     |
| \$3,371,847 in 2019 and \$2,954,984 in 2018          | 17,354,558              | 15,743,241          |
| Unbilled                                             | 11,654,265              | 12,779,125          |
| Other receivables, less allowances for uncollectible |                         |                     |
| accounts of \$510,868 in 2019 and 2018               | 1,397,457               | 1,425,880           |
| Materials and supplies                               | 19,099,033              | 10,519,111          |
| Prepaid expenses                                     | 456,446                 | 471,838             |
| Restricted assets                                    | 04.000.004              |                     |
| Cash and cash equivalents                            | 21,236,291              | 18,856,615          |
| Investments                                          |                         | 921,705             |
| Total current assets                                 | 200,950,606             | 135,696,269         |
| Noncurrent assets                                    |                         |                     |
| Capital assets                                       |                         |                     |
| Infrastructure                                       | 1,556,510,343           | 1,527,922,394       |
| Building and improvements                            | 186,259,899             | 176,188,768         |
| Equipment and machinery                              | 328,433,517             | <u>320,</u> 775,882 |
|                                                      | 2,071,203,759           | 2,024,887,044       |
| Less accumulated depreciation                        | <u>(1,073,891,290</u> ) | (1,029,116,807)     |
|                                                      | 997,312,469             | 995,770,237         |
| Land                                                 | 32,373,064              | 32,373,064          |
| Construction work in progress                        | 159,220,947             | <u>121,885,982</u>  |
| Net capital assets                                   | 1,188,906,480           | 1,150,029,283       |
| Investments                                          | 283,877,536             | 320,354,548         |
| Restricted assets                                    |                         |                     |
| Cash and cash equivalents                            | <b>3,201</b> ,881       |                     |
| Investments                                          | 21,149,006              | 22,407,800          |
| Other assets                                         | 659                     | 706                 |
| Total noncurrent assets                              | 1,497,135,562           | 1,492,792,337       |
| Total assets                                         | 1,698,086,168           | 1,628,488,606       |
| DEFERRED OUTFLOWS OF RESOURCES                       |                         |                     |
| Deferred loss on refunding of debt                   | 15,572,789              | 17,085,994          |
| Deferred outflows of resources related to pensions   | 27,773,118              | 31,931,839          |
| Deferred outflows of resources related to OPEB       | 9,718,371               | 8,855,338           |
| Total deferred outflows of resources                 | 53,064,278              | 57,873,171          |
|                                                      | \$ 1,751,150,446        | \$ 1,686,361,777    |
| Total assets and deferred outflows of resources      | φ <u>1,731,130,440</u>  | Ψ 1,000,001,777     |

See accompanying notes to financial statements.

# Board of Water Supply City and County of Honolulu STATEMENTS OF NET POSITION (Continued) June 30, 2019 and 2018

|                                                   | 2019             | 2018             |
|---------------------------------------------------|------------------|------------------|
| LIABILITIES                                       |                  |                  |
| Current liabilities                               |                  |                  |
| Payable from current assets                       |                  |                  |
| Accounts payable                                  | \$ 14,385,208    | \$ 12,163,691    |
| Contracts payable, including retainages           | 11,416,826       | 5,072,065        |
| Accrued vacation, current portion                 | 2,941,584        | 2,851,001        |
| Accrued workers' compensation, current portion    | 1,068,132        | 1,033,217        |
| Other                                             | 2,997,372        | 3,832,949        |
| Total payable from current assets                 | 32,809,122       | 24,952,923       |
| Payable from restricted assets                    |                  |                  |
| Contracts payable, including retainages           | 3,585,739        | 3,267,464        |
| Accrued interest payable                          | 4,706,312        | 4,781,189        |
| Bonds payable, current portion                    | 8,820,000        | 8,550,000        |
| Notes payable, current portion                    | 4,124,240        | 3,179,667        |
| Total payable from restricted assets              | 21,236,291       | 19,778,320       |
| Total current liabilities                         | 54,045,413       | 44,731,243       |
| Noncurrent liabilities                            |                  |                  |
| Bonds payable, noncurrent                         | 213,780,455      | 224,342,342      |
| Notes payable, noncurrent portion                 | 78,163,163       | 64,255,055       |
| Net pension liability                             | 120,348,341      | 113,350,294      |
| Net OPEB liability                                | 73,127,683       | 74,721,923       |
| Accrued vacation, noncurrent portion              | 3,832,552        | 4,165,279        |
| Accrued workers' compensation                     | 2,780,710        | 2,515,969        |
| Customer advances                                 | 2,414,284        | 1,606,003        |
| Other                                             | 2,737,613        | 3,704,937        |
| Total noncurrent liabilities                      | 497,184,801      | 488,661,802      |
| Total liabilities                                 | 551,230,214      | 533,393,045      |
| DEFERRED INFLOWS OF RESOURCES                     |                  |                  |
| Deferred inflows of resources related to pensions | 3,450,266        | 4,375,619        |
| Deferred inflows of resources related to OPEB     | 2,957,650        | 1,317,856        |
| Total deferred inflows of resources               | 6,407,916        | 5,693,475        |
| NET POSITION                                      |                  |                  |
| Net investment in capital assets                  | 914,739,333      | 882,809,242      |
| Restricted for capital activity and debt service  | 22,147,205       | 18,116,438       |
| Unrestricted                                      | 256,625,778      | 246,349,577      |
| Total net position                                | 1,193,512,316    | 1,147,275,257    |
| Total liabilities, deferred inflows of resources  |                  |                  |
| and net position                                  | \$ 1,751,150,446 | \$ 1,686,361,777 |

See accompanying notes to financial statements.

# Board of Water Supply City and County of Honolulu STATEMENTS OF REVENUES, EXPENSES, AND CHANGES IN NET POSITION Fiscal Years Ended June 30, 2019 and 2018

|                                                          |     | 2019          |    | 2018          |
|----------------------------------------------------------|-----|---------------|----|---------------|
| OPERATING REVENUES                                       |     |               |    |               |
| Water sales                                              | \$  | 226,347,969   | \$ | 229,526,599   |
| Other, principally contract and service fees             | •   | 2,313,872     | *  | 2,851,249     |
|                                                          | -   | 228,661,841   |    | 232,377,848   |
| Total operating revenues                                 | -   |               |    | 202,011,040   |
| OPERATING EXPENSES                                       |     |               |    |               |
| Administrative and general                               |     | 72,030,601    |    | 70,493,764    |
| Depreciation                                             |     | 47,266,015    |    | 47,337,006    |
| Power and pumping                                        |     | 35,139,272    |    | 32,064,982    |
| Transmission and distribution                            |     | 25,232,703    |    | 22,693,884    |
| Maintenance                                              |     | 11,430,094    |    | 12,663,811    |
| Water reclamation                                        |     | 5,313,092     |    | 5,164,896     |
| Customers' accounting and collection                     |     | 4,287,336     |    | 4,022,619     |
| Central administrative services expense fees             |     | 3,300,000     |    | 3,300,000     |
| Source of supply                                         | _   |               |    | 4,418         |
| Total operating expenses                                 | _   | 203,999,113   |    | 197,745,380   |
| Operating income                                         | _   | 24,662,728    |    | 34,632,468    |
| NONOPERATING REVENUES (EXPENSES)                         |     |               |    |               |
| Interest income                                          |     | 7,549,495     |    | 6,097,077     |
| Interest expense, net of amortization of bond premiums   |     | .,,           |    | 2,221,211     |
| of \$1,741,887 in 2019 and \$1,865,197 in 2018           |     | (9,661,066)   |    | (9,836,724)   |
| Loss from disposal of capital assets                     |     | (540,882)     |    | (298,169)     |
| Net increase (decrease) in the fair value of investments |     | 10,866,747    |    | (6,323,489)   |
| Other                                                    |     | 383,673       |    | 451,948       |
| Total nonoperating revenues (expenses)                   | _   | 8,597,967     |    | (9,909,357)   |
| CONTRIBUTIONS IN AID OF CONSTRUCTION                     | _   | 12,976,364    |    | 21,509,465    |
| Change in net position                                   |     | 46,237,059    |    | 46,232,576    |
| NET POSITION                                             |     |               |    |               |
| Beginning of year                                        | _   | 1,147,275,257 |    | 1,101,042,681 |
| End of year                                              | \$_ | 1,193,512,316 | \$ | 1,147,275,257 |

## Board of Water Supply City and County of Honolulu STATEMENTS OF CASH FLOWS Fiscal Years Ended June 30, 2019 and 2018

|                                                           |      | 2019          |    | 2018            |
|-----------------------------------------------------------|------|---------------|----|-----------------|
| CASH FLOWS FROM OPERATING ACTIVITIES                      |      |               |    |                 |
| Cash received from customers                              | \$   | 227,366,672   | \$ | 232,624,848     |
| Payments to suppliers for goods and services              |      | (94,721,939)  |    | (84,142,970)    |
| Payments to employees for services                        |      | (58,325,919)  |    | (56,488,853)    |
| Net cash provided by operating activities                 |      | 74,318,814    |    | 91,993,025      |
| CASH FLOWS FROM CAPITAL AND RELATED                       |      |               |    |                 |
| FINANCING ACTIVITIES                                      |      |               |    |                 |
| Acquisition and construction of capital assets            |      | (73,725,603)  |    | (47,590,231)    |
| Customer payments for capital projects                    |      | 6,350,292     |    | 8,915,036       |
| Principal paid on bonds                                   |      | (8,550,000)   |    | (8,365,000)     |
| Interest paid on bonds                                    |      | (9, 175, 023) |    | (9,358,160)     |
| Proceeds from notes payable                               |      | 18,048,072    |    | 8,564,034       |
| Interest paid on notes payable                            |      | (789,555)     |    | (864,688)       |
| Principal paid on notes payable                           | _    | (3,195,391)   |    | (12,474,813)    |
| Net cash used in capital and related financing activities |      | (71,037,208)  |    | (61,173,822)    |
| CASH FLOWS FROM INVESTING ACTIVITIES                      |      |               |    |                 |
| Purchase of investments                                   |      | (145,871,012) |    | (172, 354, 414) |
| Proceeds from maturity of investments                     |      | 150,050,772   |    | 112,246,870     |
| Interest on investments                                   |      | 7,513,375     |    | 5,414,572       |
| Net cash provided by (used in) investing activities       | -    | 11,693,135    |    | (54,692,972)    |
| Net increase (decrease) in cash and cash equivalents      |      | 14,974,741    |    | (23,873,769)    |
| CASH AND CASH EQUIVALENTS                                 |      |               |    |                 |
| Beginning of year                                         |      | 26,200,152    |    | 50,073,921      |
| End of year                                               | \$ ] | 41,174,893    | \$ | 26,200,152      |
| Reconciliation of cash and cash equivalents               |      |               |    |                 |
| to the statement of net position                          |      |               |    |                 |
| Unrestricted                                              | \$   | 16,736,721    | \$ | 7,343,537       |
| Restricted                                                | -    | 24,438,172    | -  | 18,856,615      |
|                                                           | \$ _ | 41,174,893    | \$ | 26,200,152      |

# Board of Water Supply City and County of Honolulu STATEMENTS OF CASH FLOWS (Continued) Fiscal Years Ended June 30, 2019 and 2018

|                                                           |      | 2019        |     | 2018        |
|-----------------------------------------------------------|------|-------------|-----|-------------|
| RECONCILIATION OF OPERATING INCOME                        |      |             |     |             |
| TO NET CASH PROVIDED BY OPERATING ACTIVITIES              |      |             |     |             |
| Operating income                                          | \$   | 24,662,728  | \$  | 34,632,468  |
| Adjustments to reconcile operating income to net cash     |      |             |     |             |
| provided by operating activities:                         |      |             |     |             |
| Depreciation                                              |      | 48,781,234  |     | 48,924,008  |
| Provision for doubtful accounts                           |      | 990,929     |     | 847,834     |
| Change in assets, deferred outflows of resources,         |      |             |     |             |
| liabilities, and deferred inflows of resources:           |      |             |     |             |
| Customer receivables                                      |      | (1,477,386) |     | (371,416)   |
| Other receivables                                         |      | 412,096     |     | 361,148     |
| Materials and supplies                                    |      | (8,579,922) |     | (1,529,490) |
| Prepaid expenses and other                                |      | 15,392      |     | (267,471)   |
| Deferred outflows of resources related to pensions        |      | 4,158,721   |     | 12,452,972  |
| Deferred outflows of resources related to OPEB            |      | (863,033)   |     | 2,869,389   |
| Accounts and contracts payable                            |      | 1,845,196   |     | 842,586     |
| Accrued vacation                                          |      | (242,144)   |     | 39,781      |
| Accrued workers' compensation                             |      | 299,656     |     | 1,282,031   |
| Other liabilities                                         |      | (1,802,901) |     | 197,746     |
| Net pension liability                                     |      | 6,998,047   |     | (2,992,622) |
| Net OPEB liability                                        |      | (1,594,240) |     | (5,729,260) |
| Deferred inflows of resources related to pensions         |      | (925,353)   |     | (884,535)   |
| Deferred inflows of resources related to OPEB             | _    | 1,639,794   | _   | 1,317,856   |
| Net cash provided by operating activities                 | \$ _ | 74,318,814  | \$_ | 91,993,025  |
| SUPPLEMENTAL DISCLOSURE OF NONCASH CAPITAL                |      |             |     |             |
| AND RELATED FINANCING ACTIVITIES                          |      |             |     |             |
| Contributions of capital assets from government agencies, |      |             |     |             |
| developers and customers that are recorded as             |      |             |     |             |
| contributions in aid of construction                      | \$   | 7,434,353   | \$  | 10,977,138  |
| Amortization of other costs                               | \$   | 47          | \$  | 28,819      |
| Amortization of bond premium, net                         | \$   | 1,741,887   | \$  | 1,865,197   |
| Amortization of deferred loss on refunding                | \$   | 1,513,205   | \$  | 1,513,204   |
| Forgiveness of principal due on notes payable             | \$   |             | \$  | 1,662,400   |

See accompanying notes to financial statements.

### **NOTE A - OPERATIONS**

The Revised Charter of the City and County of Honolulu provides for the operation of the Board of Water Supply (the "BWS") as a semi-autonomous body of the City and County of Honolulu government (the "City"). The BWS has full and complete authority to manage, control and operate the City's water system and related properties.

Article VII of the Revised Charter of the City and County of Honolulu states that the BWS's seven-member Board of Directors has the authority to establish and adjust water rates and charges so that the revenues derived shall be sufficient to make the BWS self-supporting. The Board of Directors is required to follow certain procedures that include holding public hearings before implementing changes in the water rate schedules.

### NOTE B - SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES

- (1)e **Financial Statement Presentation** The BWS is a component unit of the City (thee "primary government"). The accompanying financial statements present only thee financial position and activities of the BWS and do not purport to, and do not present thee financial position of the City, the changes in its financial position, or its cash flows.e
- (2)e Measurement Focus and Basis of Accounting The accompanying financiale statements are presented using the economic resources measurement focus and thee accrual basis of accounting. Under this method, revenues are recorded when earnede and expenses are recorded at the time liabilities are incurred.e
- (3)e Use of Estimates The preparation of the financial statements in accordance withe accounting principles generally accepted in the United States of America requirese management to make estimates and assumptions that affect the reported amounts ofe assets, deferred outflows of resources, liabilities, deferred inflows of resources ande disclosure of contingent assets and liabilities at the date of the financial statementse and the reported amounts of revenues and expenses during the reporting period.e Significant items subject to such estimates and assumptions include the carryinge amount of capital assets, valuation allowances for receivables, accrued workers'e compensation, and pensions and postretirement benefits. Actual results could differe from those estimates.e
- (4)e Cash and Cash Equivalents The BWS considers all cash on hand, demande deposits, and short-term investments (including restricted assets) with originale maturities of three months or less from the date of acquisition to be cash and cashe equivalents.e
- (5)e Investments Investments are measured at fair value. Fair value is the price thate would be received to sell an asset or paid to transfer a liability in an orderly transactione between market participants at the measurement date. The cost of securities sold ise generally determined by the weighted average method.e

### NOTE B - SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES (Continued)

- (6)e Receivables Receivables are recorded at the invoiced amount and do not beare interest. The allowance for doubtful accounts is the BWS's best estimate of the amounte of probable credit losses in the BWS's existing receivables. The BWS determines thee allowance based on past collection experience and the length of time individuale receivables are past due. Account balances are charged off against the allowancee after all means of collection have been exhausted and the potential for recovery ise considered remote.e
- (7)e **Materials and Supplies** Materials and supplies are stated at weighted average coste (which approximates the first-in, first-out method). The cost of materials and suppliese are recorded as expenses when consumed rather than when purchased.e
- (8)e Restricted Assets Restricted assets are comprised of cash and cash equivalentse and investments maintained in accordance with bond resolutions and othere agreements for the purpose of funding certain debt service payments, construction,e improvements, and renewal and replacements of the water system. When bothe restricted and unrestricted assets are available for use, it is the BWS's policy to usee restricted assets first, then unrestricted assets as they are needed. Restricted assetse comprise the following:e
  - •e The debt service account accumulates transfers from the operating accounte throughout the fiscal year to make principal and interest payments on thee outstanding water system revenue bonds and other notes payable.e
  - •e The renewal and replacement account and the reserve release fund providese funding for improvements, reconstruction, emergency or extraordinary repairs, e and renewals or replacements of the water system.e
  - •e The improvement account holds the proceeds of the series bond issuancee pursuant to the series resolution or series certificates. These proceeds are onlye applied to costs specified in the applicable series resolution or series certificates.e
  - •e The extramural account holds reimbursements received from any governmentale agency or private entity, pursuant to negotiated agreements, contracts and/ore grants.e
- (9)e Capital Assets Capital assets include those assets in excess of \$5,000 for buildings,e infrastructure, and equipment and machinery with a useful life of more than one year.e Capital assets are stated at cost and include contributions by governmental agencies,e private subdividers and customers at their cost or estimated cost of new construction.e

Major replacements, renewals and betterments are capitalized. The BWS alsoe capitalizes certain indirect costs to construction work based upon actual constructione direct labor. Maintenance, repairs and replacements that do not improve or extend thee lives of the assets are charged to expense.e

### NOTE B - SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES (Continued)

Assets are depreciated over the individual assets' estimated useful lives using the straight-line method. Depreciation on both purchased and contributed assets is charged against operations.

The estimated useful lives of capital assets are as follows:

Source of supply plant 20 to 100 years
Pumping plant 20 to 50 years
Water treatment plant 20 to 30 years
Transmission and distribution plant 13-1/3 to 50 yearse
General plant 5 to 50 yearse

Gains or losses resulting from the sale, retirement or disposal of capital assets in service are credited or charged to nonoperating revenues (expenses).

(10)e Bond Issue Prepaid Insurance Costs, Original Issue Discount or Premium and Deferred Loss on Refunding of Debt - Bond issue costs are expensed whene incurred, except for prepaid insurance, which are amortized over the life of thee respective issue on a straight-line basis. Bond issue prepaid insurance costs aree presented as other assets in the statements of net position.e

Original issue discounts or premiums are amortized using the straight-line method over the terms of the respective issues. Original issue discounts or premiums are offset against or added to bonds payable in the statements of net position.

Deferred loss on refunding of debt is amortized using the straight-line method over the remaining life of the refunded debt or the life of the new debt, whichever is shorter. The deferred loss on refunding of debt is presented as deferred outflows of resources in the statements of net position.

(11)e Accrued Vacation and Compensatory Pay - Vacation is earned at the rate of onee and three-quarters working days for each month of service. Vacation days may bee accumulated to a maximum of ninety days as of the end of the calendar year and aree convertible to pay upon termination. The BWS accrues a liability for compensatede absences and additional amounts for certain salary-related payments including payrolle taxes and fringe benefits.e

As of June 30, 2019 and 2018, accumulated sick leave aggregated approximately \$18,852,000 and \$19,133,000, respectively. Sick leave accumulates at the rate of one and three-quarters working days for each month of service without limit, but can be taken only in the event of illness and is not convertible to pay upon termination of employment. However, an employee who retires or leaves government service in good standing with 60 or more unused sick days is entitled to additional service credit in the State of Hawaii's Employees' Retirement System.

### NOTE B - SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES (Continued)

- (12)e **Net Position** Net position represents the difference between assets and deferred outflows of resources less liabilities and deferred inflows of resources. Net position ise classified in the following three components: net investment in capital assets, restrictede for capital activity and debt service, and unrestricted net position. Net investment ine capital assets consists of capital assets, net of accumulated depreciation and reducede by outstanding debt that is attributable to the acquisition, construction or improvemente of those assets. Debt related to unspent proceeds or other restricted cash ande investments at year-end is not included in the calculation of net investment in capitale assets. Restricted for capital activity and debt service consists of net position for whiche constraints are placed thereon by external parties, such as lenders, grantors, e contributors, laws, regulations or enabling legislation. Unrestricted consists of thee remaining balance not included in the above categories.e
- (13)e Operating Revenues and Expenses The BWS distinguishes operating revenues and expenses from nonoperating items. Operating revenues and expenses generally resulte from providing services in connection with the BWS's principal ongoing water operations. The principal operating revenues are derived from charges for water usage, whilee operating expenses include cost of services, administrative expenses, and depreciatione on capital assets. All revenues and expenses not meeting this definition are reported ase nonoperating revenues and expenses.e
- (14)e Revenue Recognition Charges for water sales are based on usage. The BWS'se policy is to bill customers on a cyclical monthly basis. The accrual for unbilled watere revenues and related receivables reflected in the accompanying financial statements ise based on estimated usage from the latest meter reading date to the end of the fiscale year.e
- (15)e Contributions in Aid of Construction Contributions in aid of construction represente cash or capital assets received by the BWS to aid in the construction of infrastructuree assets. It also includes the forgiveness of principal due on state revolving fund loanse that were used to finance the costs of infrastructure needed to maintain the watere system. Contributions in aid of construction are recognized when they are accepted bye the BWS and when all applicable eligibility requirements have been met.e
- (16)e Water System Facilities Charge A water system facilities charge is levied againste all new developments and residential properties requiring water from the BWS'se systems, except those developments that have paid for and installed a complete watere system, including source, transmission and daily storage facilities. The amountse collected are initially recorded as customer advances and are recognized ase contributions in aid of construction when water service is made available to thee customer. The use of these funds is designated for the construction of water facilities.e
- (17)e **Pensions** For purposes of measuring the net pension liability, deferred outflows ofe resources and deferred inflows of resources related to pensions and pension expense, e information about the fiduciary net position of the Employees' Retirement System ofe the State of Hawaii (the "ERS") and additions to/deductions from the ERS's fiduciarye net position have been determined using the accrual basis of accounting, which is thee same basis as they are reported by the ERS. For this purpose, employer and membere

### NOTE B - SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES (Continued)

contributions are recognized in the period in which the contributions are legally due and benefit payments (including refunds of employee contributions) are recognized when due and payable in accordance with benefit terms. Investments are reported at fair value.

- (18)e Postemployment Benefits Other Than Pensions ("OPEB") For purposes ofe measuring the net OPEB liability, deferred outflows of resources and deferred inflowse of resources related to OPEB, and OPEB expense, information about the fiduciary nete position of the Hawaii Employer-Union Health Benefits Trust Fund ("EUTF") ande additions to/deductions from EUTF's fiduciary net position have been determined one the same basis as they are reported by EUTF. For this purpose, EUTF recognizese benefit payments when due and payable in accordance with the benefit terms.e Investments are reported at fair value, except for investments in commingled ande money market funds, which are reported at net asset value (NAV). The NAV is basede on the fair value of the underlying assets held by the respective fund less its liabilities.e
- (19)e Deferred Compensation Plan All full-time employees are eligible to participate ine the City and County of Honolulu's Public Employees' Deferred Compensation Plane (the "Plan"), adopted pursuant to Internal Revenue Code Section 457. The Plane permits eligible employees to defer a portion of their salary until future years. Thee deferred compensation amounts are not available to employees until termination,e retirement, death or unforeseeable emergency.e

A trust fund was established to protect plan assets from claims of general creditorse and from diversion to any uses other than paying benefits to participants ande beneficiaries. Accordingly, the BWS has excluded the Plan's assets and liabilities frome the financial statements because the BWS and the City do not have significante administrative involvement in the Plan or perform the investment function for the Plan.e

(20)e **Risk Management** - The BWS is exposed to various risks of loss from: (1) torts, (2)e theft of, damage to, and destruction of assets, (3) employee injuries and illnesses, (4)e natural disasters, and (5) employee health, dental, and accident benefits. Commerciale insurance coverage is purchased for claims arising from such matters.e

The ranges of insurance limits and deductibles are as follows:e

| Policy                       | Limits <u>(</u> N | lillions) | De | ductibles |
|------------------------------|-------------------|-----------|----|-----------|
| Property                     | \$                | 60        | \$ | 50,000    |
| Public entity liability      | \$                | 15        | \$ | 750,000   |
| Excess workers' compensation | \$                | 25        | \$ | 600,000   |
| Employment practices         | \$                | 5         | \$ | 75,000    |
| Storage tank liability       | \$                | 2         | \$ | 10,000    |
| Pollution legal liability    | \$                | 5         | \$ | 250,000   |
| Crime                        | \$                | 5         | \$ | 25,000    |
| Cyber liability              | \$                | 3         | \$ | 50,000    |

There have been no significant reductions in insurance coverage's from the prior fiscal year.

### NOTE B - SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES (Continued)

(21)e New Accounting Pronouncements - The Government Accounting Standards Boarde (the "GASB") issued Statement No. 83, Certain Asset Retirement Obligations. Thise Statement addresses accounting and financial reporting for certain asset retiremente obligations ("AROs"). An ARO is a legally enforceable liability associated with thee retirement of a tangible capital asset. A government that has legal obligations toe perform future asset retirement activities related to its tangible capital assets shoulde recognize a liability based on the guidance in this Statement. The requirements of thise Statement are effective for reporting periods beginning after June 15, 2018.e Management has determined that this Statement does not have a material impact one the BWS's financial statements.e

The GASB issued Statement No. 84, *Fiduciary Activities*. This Statement establishese specific criteria for identifying activities that should be reported as fiduciary activitiese and clarifies whether and how business-type activities should report their fiduciarye activities. The requirements of this Statement are effective for reporting periodse beginning after December 15, 2018. Management has determined that this Statemente does not have a material impact on the BWS's financial statements.e

The GASB issued Statement No. 87, Leases. This Statement requires the recognitione of certain lease assets and liabilities for leases that previously were classified ase operating leases and recognized as inflows of resources or outflows of resourcese based on the payment provisions of the contract. It establishes a single model fore lease accounting based on the foundational principle that leases are financings of thee right to use an underlying asset. Under this Statement, a lessee is required toe recognize a lease liability and an intangible right-to-use lease asset, and a lessor ise required to recognize a lease receivable and a deferred inflow of resources. Thee requirements of this Statement are effective for reporting periods beginning aftere December 15, 2019. Management has not yet determined the effect this Statement wille have on the BWS's financial statements.e

The GASB issued Statement No. 88, Certain Disclosures Related to Debt, including Direct Borrowings and Direct Placements. This Statement defines debt for purposes ofe disclosure in notes to financial statements and establishes additional financiale statement note disclosure requirements related to debt obligations of governments, e including direct borrowings (for example, a government entering into a loan agreemente with a lender) and direct placements (for example, a government issuing a debte security directly to an investor). Direct borrowings and direct placements have termse negotiated directly with the investor or lender and are not offered for public sale. Thee requirements of this Statement are effective for reporting periods beginning aftere June 15, 2018. Management has adopted the applicable requirements of this newe standard as presented in the BWS's financial statements.e

### NOTE B - SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES (Continued)

The GASB issued Statement No. 90, *Majority Equity Interests - an amendment of GASB Statements No. 14 and No. 61.* The primary objectives of this Statement are to improve the consistency and comparability of reporting a government's majority equity interest in a legally separate organization and to improve the relevance of financial statement information for certain component units. It defines a majority equity interest and specifies that a majority equity interest in a legally separate organization should be reported as an investment if a government's holding of the equity interest meets the definition of an investment. The requirements of this Statement are effective for reporting periods beginning after December 15, 2018. Management has not yet determined the effect this Statement will have on the BWS's financial statements.

The GASB issued Statement No. 91, Conduit Debt Obligations. The primary objectives of this Statement are to provide a single method of reporting conduit debt obligations by issuers and eliminate diversity in practice associated with (1) commitments extended by issuers, (2) arrangements associated with conduit debt obligations, and (3) related note disclosures. For accounting and financial reporting purposes, a conduite debt obligation is a debt instrument issued in the name of a state or local governmente (the issuer) that is for the benefit of a third party primarily liable for the repayment ofe the debt instrument (the third-party obligor). The requirements of this Statement aree effective for reporting periods beginning after December 15, 2020. Management hase not yet determined the effect this Statement will have on the BWS's financiale statements.e

### NOTE C - CASH AND INVESTMENTS

Cash deposited with the City is maintained by the Department of Budget and Fiscal Services of the City. The City maintains a cash and investment pool that is used by all of the City's Funds and the BWS. The Hawaii Revised Statutes ("HRS") provide for the City's Director of Finance to deposit the cash with any national or state bank or federally insured financial institution authorized to do business in the State of Hawaii, provided that all deposits are fully insured or collateralized. The City's demand deposits are fully insured or collateralized with securities held by the City or its agents in the City's name.

The HRS authorizes the BWS to invest, with certain restrictions, in obligations of the State of Hawaii or the United States of America, in federally insured savings accounts, time certificates of deposit, and bank repurchase agreements with federally insured financial institutions authorized to do business in the State of Hawaii. The BWS's portfolio is managed by various investment managers. These investments consist of U.S. government and U.S. government agencies securities.

Interest Rate Risk - Interest rate risk is the risk that changes in interest rates will adversely affect the fair value of an investment. Generally, the longer the term of an investment, the greater the sensitivity of its fair value to changes in market interest rates. As a means of limiting its exposure to fair value losses, the BWS invests operating funds primarily in shorter-term securities, money market mutual funds, or similar investment pools.

### NOTE C - CASH AND INVESTMENTS (Continued)

Custodial Credit Risk - The custodial credit risk for deposits is the risk that, in the event of the failure of a depository financial institution, a government will not be able to recover deposits or will not be able to recover collateral securities that are in the possession of an outside party. The custodial credit risk for investments is the risk that, in the event of the failure of the counterparty to a transaction, a government will not be able to recover the value of investment or collateral securities that are in the possession of an outside party. Excluding cash deposited with the City, all cash, money market mutual funds and investment securities as of June 30, 2019 and 2018 were held in trust by two financial institutions in the State of Hawaii.

All investment securities are registered in the name of the BWS and are not exposed to custodial credit risk. Money market mutual funds are not considered investment securities for purposes of custodial credit risk classification and are not exposed to custodial credit risk. Cash held in trust with these financial institutions are uncollateralized, however, amounts in excess of depository insurance are covered by commercial insurance obtained by each financial institution designed to insure against losses resulting from errors and omissions or fraud.

Credit Risk and Concentration of Credit Risk - Credit risk is the risk that an issuer or other counterparty to an investment will not fulfill its obligation to the holder of the investment. Concentration of credit risk is the risk of a loss attributed to the magnitude of a government's investment in a single issuer. As of June 30, 2019 and 2018, all investment securities and money market mutual funds were rated Aaa and Aaa-mf, respectively, by Moody's Investors Services. The BWS's concentration of credit risk related to investments in debt securities has been mitigated by limiting such investments to only debt obligations of the U.S. government and U.S. government agencies.

The historical cost and estimated fair value of investments at June 30, 2019 and 2018 consisted of the following:

|                            | 20                 |    | 2018        |    |             |    |             |
|----------------------------|--------------------|----|-------------|----|-------------|----|-------------|
|                            | Cost               | _  | Fair Value  | Ξ  | Cost        |    | Fair Value  |
| U. S. Treasury obligations | \$<br>334,445,076e | \$ | 337,750,640 | \$ | 339,521,895 | \$ | 333,157,965 |
| U. S. government agencies  | 77,625,959         |    | 78,309,374  |    | 77,524,930  |    | 76,215,062  |
|                            | \$<br>412,071,035  | \$ | 416,060,014 | \$ | 417,046,825 | \$ | 409,373,027 |

### **NOTE C - CASH AND INVESTMENTS (Continued)**

As of June 30, 2019 and 2018, the credit exposure as a percentage of total investments were as follows:

|                                               | 20               | )19                          | 2018                |                              |  |  |
|-----------------------------------------------|------------------|------------------------------|---------------------|------------------------------|--|--|
| _                                             | Percent of Total | Fair Value                   | Percent<br>of Total | Fair Value                   |  |  |
| U. S. Treasury obligations                    | 81%              | \$ 337,750,640               | 82%                 | \$ 333,157,965               |  |  |
| U. S. government agencies<br>Federal National |                  |                              |                     |                              |  |  |
| Mortgage Association<br>Federal Home Loan     | 9%               | 35,996,530                   | 9%                  | 36,832,412                   |  |  |
| Mortgage Corporation                          | 2%               | 6,974,347                    | 3%                  | 14,113,035                   |  |  |
| Federal Home Loan Bank                        | 8%<br>100%       | 35,338,497<br>\$ 416,060,014 | <u>6%</u><br>100%   | 25,269,615<br>\$ 409,373,027 |  |  |
|                                               |                  |                              |                     |                              |  |  |

The fair value of investments by contractual maturity at June 30, 2019 and 2018 are shown below:

|                            | Investment Maturities (In Years) at June 30, 2019 |               |                         |               |       |               |  |  |  |  |
|----------------------------|---------------------------------------------------|---------------|-------------------------|---------------|-------|---------------|--|--|--|--|
|                            |                                                   | Fair Value    |                         | Less Than 1   |       | 1 - 5         |  |  |  |  |
| U. S. Treasury obligations | \$                                                | 337,750,640   | \$                      | 98,880,356    | \$    | 238,870,284   |  |  |  |  |
| U. S. government agencies  |                                                   | 78,309,374    |                         |               |       | 55,178,337    |  |  |  |  |
|                            | \$                                                | 416,060,014   |                         |               | \$    | 294,048,621   |  |  |  |  |
|                            |                                                   | Investment Ma | aturities (In Years) at |               |       | June 30, 2018 |  |  |  |  |
|                            |                                                   | Fair Value    |                         | Less Than 1   | 1 - 5 |               |  |  |  |  |
| U. S. Treasury obligations | \$                                                | 333,157,965   | \$                      | 58,201,216    | \$    | 274,956,749   |  |  |  |  |
| U. S. government agencies  |                                                   | 76,215,062    |                         | 15,994,998    |       | 60,220,064    |  |  |  |  |
| -                          | \$                                                | 409,373,027   | \$                      | \$ 74,196,214 |       | 335,176,813   |  |  |  |  |

### **NOTE D - RESTRICTED ASSETS**

At June 30, 2019 and 2018, the BWS's restricted assets were comprised of cash, cash equivalents and investments and were held for the following purposes:

|                                         | 2019 |            |      | 2018       |
|-----------------------------------------|------|------------|------|------------|
| Construction, renewals and replacements | \$   | 5,130,874  | \$   | 6,977,462  |
| Debt service                            |      | 40,456,304 |      | 35,208,658 |
|                                         | \$ _ | 45,587,178 | \$ ] | 42,186,120 |

### **NOTE E - FAIR VALUE MEASUREMENTS**

The framework for measuring fair value provides a fair value hierarchy that prioritizes the inputs to valuation techniques used to measure fair value. The hierarchy gives the highest priority to unadjusted quoted prices in active markets for identical assets or liabilities (Level 1) and the lowest priority to unobservable inputs (Level 3). The three levels of the fair value hierarchy are described as follows:

**Level 1** - Inputs to the valuation methodology are quoted prices (unadjusted) in active markets for identical assets or liabilities that a government has the ability to access at the measurement date.

**Level 2** - Inputs other than quoted prices included within Level 1 that are observable for an asset or liability, either directly or indirectly. If the asset or liability has a specified (contractual) term, the Level 2 input must be observable for substantially the full term of the asset or liability. Level 2 inputs include:

- Quoted prices for similar assets or liabilities in active markets,
- Quoted prices for identical or similar assets or liabilities in markets that are not active,
- Inputs other than quoted prices that are observable for the asset or liability,
- Inputs that are derived principally from or corroborated by observable market data by correlation or other means.

Level 3 - Inputs that are unobservable for an asset or liability.

Following is a description of the valuation techniques used by the BWS to measure fair value:

- U.S. Treasury obligations: Valued using quoted prices in active markets for identical assets.
- U.S. government agencies obligations: Valued using quoted prices for identical or similar assets in markets that are not active.

The following table sets forth by level, within the fair value hierarchy, assets measured at fair value on a recurring basis as of June 30, 2019 and 2018:

|                            | Assets at Fair Value at June 30, 2019 |             |                 |             |                |            |    |         |  |
|----------------------------|---------------------------------------|-------------|-----------------|-------------|----------------|------------|----|---------|--|
|                            | Total                                 |             | Level 1         |             |                | Level 2    |    | Level 3 |  |
| U. S. Treasury obligations | \$                                    | 337,750,640 | \$              | 337,750,640 | \$             | -          | \$ | _       |  |
| U. S. government agencies  |                                       | 78,309,374  |                 | _           |                | 78,309,374 |    | _       |  |
|                            | \$                                    | 416,060,014 | \$              | 337,750,640 | \$             | 78,309,374 | \$ |         |  |
|                            |                                       |             | ets at Fair Val | ue a        | t June 30, 201 | 8          |    |         |  |
|                            | _                                     | Total       |                 | Level 1     |                | Level 2    |    | Level 3 |  |
| U. S. Treasury obligations | \$                                    | 333,157,965 | \$              | 333,157,965 | \$             | -          | \$ | _       |  |
| U. S. government agencies  |                                       | 76,215,062  |                 | _           |                | 76,215,062 |    |         |  |
|                            | \$                                    | 409,373,027 | \$              | 333,157,965 | \$             | 76,215,062 | \$ |         |  |

### **NOTE F - CAPITAL ASSETS**

Capital assets activity during the fiscal years ended June 30, 2019 and 2018, were as follows:

|                                | _  | Balance<br>July 1, 2018 | _  | Additions    | Transfers          | <br>Retirements   | Balance<br>June 30, 2019 |
|--------------------------------|----|-------------------------|----|--------------|--------------------|-------------------|--------------------------|
| Depreciable assets             |    |                         |    |              |                    |                   |                          |
| Infrastructure                 | \$ | 1,527,922,394           | \$ | 7,492,403    | \$<br>22,554,570   | \$<br>(1,459,024) | \$<br>1,556,510,343      |
| Building and improvements      |    | 176, 188, 768           |    | _            | 10,463,776         | (392,645)         | 186,259,899              |
| Equipment and machinery        |    | 320,775,882             |    | 3,975,782    | 6,453,500          | (2,771,647)       | 328,433,517              |
| Total depreciable assets       |    | 2,024,887,044           |    | 11,468,185   | 39,471,846         | (4,623,316)       | 2,071,203,759            |
| Less accumulated depreciation  |    | (1,029,116,807)         |    | (48,781,234) |                    | 4,006,751         | (1,073,891,290)          |
| Total depreciable assets - net |    | 995,770,237             |    | (37,313,049) | 39,471,846         | (616,565)         | 997,312,469              |
| Land                           |    | 32,373,064              |    | -            | -                  | _                 | 32,373,064               |
| Construction work in progress  |    | 121,885,982             |    | 85, 196,667  | (47,861,702)       | _                 | 159,220,947              |
| Net capital assets             | \$ | 1,150,029,283           | \$ | 47,883,618   | \$<br>(8,389,856)  | \$<br>(616,565)   | \$<br>1,188,906,480      |
|                                | _  | Balance<br>July 1, 2017 |    | Additions    | Transfers          | Retirements       | Balance<br>June 30, 2018 |
| Depreciable assets             |    |                         |    |              |                    |                   |                          |
| Infrastructure                 | \$ | 1,504,279,618           | \$ | 11,083,749   | \$<br>14,529,249   | \$<br>(1,970,222) | \$<br>1,527,922,394      |
| Building and improvements      |    | 169,870,257             |    | _            | 6,344,030          | (25,519)          | 176, 188, 768            |
| Equipment and machinery        |    | 317,240,982             |    | 3,613,780    | 1,790,043          | (1,868,923)       | 320,775,882              |
| Total depreciable assets       |    | 1,991,390,857           |    | 14,697,529   | 22,663,322         | (3,864,664)       | 2,024,887,044            |
| Less accumulated depreciation  |    | (983,717,510)           |    | (48,924,008) |                    | 3,524,711         | (1,029,116,807)          |
| Total depreciable assets - net |    | 1,007,673,347           |    | (34,226,479) | 22,663,322         | (339,953)         | 995,770,237              |
| Land                           |    | 32,373,064              |    | -            | -                  | _                 | 32,373,064               |
| Construction work in progress  |    | 98,956,663              |    | 56,895,383   | (33,966,064)       | _                 | 121,885,982              |
| Net capital assets             | \$ | 1,139,003,074           | \$ | 22,668,904   | \$<br>(11,302,742) | \$<br>(339,953)   | \$<br>1,150,029,283      |

Depreciation charges allocated to various functions for the fiscal years ended June 30, 2019 and 2018 totaled \$1,515,219 and \$1,587,002, respectively.

### **NOTE G - BONDS PAYABLE**

At June 30, 2019 and 2018, bonds payable consisted of the following:

|                                                                                                                                                                                                     | 2019                                     | 2018               |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|--------------------|
| Water System Revenue Bonds, Series 2012A, annual principal due ranging from \$2,000,000 to \$8,535,000 through July 1, 2033, with interest ranging from 2.00% to 5.00%.                             | \$ 74,870,000                            | \$ 78,830,000      |
| Water System Revenue Bonds, Series 2014A, annual principal due commencing from July 1, 2023, ranging from \$410,000 to \$9,205,000 through July 1, 2036, with interest ranging from 3.00% to 5.00%. | 101,655,000                              | 101,655,000        |
| Water System Revenue Bonds, Series 2014B,<br>annual principal due ranging from \$1,540,000<br>to \$4,790,000 through July 1, 2031, with                                                             |                                          |                    |
| interest ranging from 2.14% to 3.86%                                                                                                                                                                | 29,765,000                               | 34,355,000         |
| Add: unamortized premium                                                                                                                                                                            | 206,290,000<br>16,310,455<br>222,600,455 | <u> 18,052,342</u> |
| Less: current portion                                                                                                                                                                               | 8,820,000                                | 8,550,000          |
| Noncurrent portion                                                                                                                                                                                  | \$ <u>213,780,455</u>                    | \$ 224,342,342     |

The BWS had pledged future water revenues, net of specified operating and maintenance expenses, for the security and payment of the water system revenue bonds outstanding. Proceeds from the bonds refunded the principal amounts of previously issued water system revenue bonds that were used to finance the construction of various components of the water system. As of June 30, 2019 and 2018, the total principal and interest remaining to be paid on the bonds totaled \$290,112,000 and \$307,837,000, respectively. Principal and interest paid for the current year and water revenues, net of specified operating and maintenance expenses, were \$17,725,023 and \$81,377,130, respectively

The BWS' outstanding revenue bonds contain a provision that in the event of a default the holders of not less than 25% of the bonds may declare the principal and interest due immediately. An event of default includes, but is not limited to, the following situations: failure to pay the principal and interest due, failure to punctually perform any of the covenants, agreements or conditions of the resolution, and bankruptcy. The BWS has covenanted and agreed to maintain the water system in good repair, to fix rates and charges sufficient to meet the Net Revenue Requirement, not to dispose of the properties comprising the water system, to maintain and keep proper books, and other actions consistent with conducting the business of the water system in an efficient and economical manner.

### NOTE G - BONDS PAYABLE (Continued)

Water system revenue bonds are subject to redemption on and after specific dates prior to maturity at the option of the BWS. The redemption amount equals the outstanding principal amount plus accrued interest without premium on the date of redemption.

Debt service requirements on bonds payable at June 30, 2019 are as follows:

| Fiscal Year Ending June 30, |     | <u>Principal</u>   |    | Interest           | Total |             |  |
|-----------------------------|-----|--------------------|----|--------------------|-------|-------------|--|
| 2020                        | \$  | 8,820,000          | \$ | 8,902,000          | \$    | 17,722,000  |  |
| 2021                        |     | 9,110,000          |    | 8,613,000          |       | 17,723,000  |  |
| 2022                        |     | 9,450,000          |    | 8,273,000          |       | 17,723,000  |  |
| 2023                        |     | 10,075,000         |    | 7,833,000          |       | 17,908,000  |  |
| 2024                        |     | 10,775,000         |    | 7,345,000          |       | 18,120,000  |  |
| 2025 - 2029                 |     | 62,060,000         |    | 28,443,000         |       | 90,503,000  |  |
| 2030 - 2034                 |     | 69,540,000         |    | 12,797,000         |       | 82,337,000  |  |
| 2035 - 2037                 |     | <u> 26,460,000</u> | _  | 1 <u>,616</u> ,000 |       | 28,076,000  |  |
| Total                       | \$_ | 206,290,000        | \$ | 83,822,000         | \$    | 290,112,000 |  |

### **NOTE H - NOTES PAYABLE**

At June 30, 2019 and 2018, notes payable from direct borrowings consisted of the following:

|                                                                                                                                              | <br>2019         | _  | 2018       |
|----------------------------------------------------------------------------------------------------------------------------------------------|------------------|----|------------|
| Notes payable to Department of Health:                                                                                                       |                  |    |            |
| Note payable in semi-annual installments of approximately \$150,500, including interest and loan fees at 1.50% per annum, due May 2034.      | \$<br>3,767,710  | \$ | 4,008,972  |
| Note payable in semi-annual installments of approximately \$149,600, including interest and loan fees at 1.50% per annum, due May 2034.      | 3,742,675        |    | 3,982,357  |
| Note payable in semi-annual installments of approximately \$142,900, including interest and loan fees at 1.50% per annum, due November 2034. | 3,794,503        |    | 3,904,788  |
| Balance brought forward                                                                                                                      | \$<br>11,304,888 | \$ | 11,896,117 |

### **NOTE H - NOTES PAYABLE (Continued)**

|                                                                                                                                                                | 2019                    | 2018                         |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|------------------------------|
| Balance carried forward                                                                                                                                        | \$ 11,304,888           | \$ 11,896,117                |
| Non-interest bearing note payable in semi-<br>annual installments of approximately<br>\$207,300, including loan fees at 1.00% per<br>annum, due November 2034. | 5,517,437               | 5,873,400                    |
| Non-interest bearing note payable in semi-<br>annual installments of approximately<br>\$785,300, including loan fees at 1.00% per<br>annum, due April 2034.    | 20,308,392              | 21,662,285                   |
| Non-interest bearing note payable in semi-<br>annual installments of approximately<br>\$244,000, including loan fees at 1.00% per<br>annum, due December 2037. | 8,465,913               | 8,626,265                    |
| Non-interest bearing note payable in semi-<br>annual installments of approximately<br>\$381,400, including loan fees at 1.00% per<br>annum, due February 2039. | 23,157,941              | 13,485,210                   |
| Note payable in semi-annual installments of approximately \$148,300, including interest and loan fees at 1.50% per annum, due October 2036.                    | 4,547,788               | 4,773,716                    |
| Note payable in semi-annual installments of approximately \$231,800, including interest and loan fees at 1.25% per annum, due October 2038.                    | 8,000,000               |                              |
| Notes payable to other lenders:  Note payable in monthly installments of approximately \$15,700, including interest at 5.0%, due September 2025.               | 985,044                 | _1 <u>.</u> 117 <u>.</u> 729 |
| Less current maturities                                                                                                                                        | 82,287,403<br>4,124,240 | 67,434,722<br>3,179,667      |
|                                                                                                                                                                | \$ <u>78.163,163</u>    | \$ <u>64,255,055</u>         |

### **NOTE H - NOTES PAYABLE (Continued)**

The notes payable to the Department of Health are state revolving fund loans and are collateralized by net revenue of the BWS. The BWS' outstanding state revolving fund loans contain a provision that in the event of default the outstanding amounts become due immediately with the consent of the majority of the holders of the BWS' revenue bonds. An event of default includes, but is not limited to, the following situations: failure to pay the principal and interest due, failure to punctually perform any of the covenants, agreements or conditions of the resolution, and bankruptcy. The BWS has covenanted and agreed to maintain the water system in good repair, to fix rates and charges sufficient to meet the Net Revenue Requirement, not to dispose of the properties comprising the water system, to maintain and keep proper books, and other actions consistent with conducting the business of the water system in an efficient and economical manner.

Debt service requirements on notes payable from direct borrowings at June 30, 2019 are as follows:

| Fiscal Year Ending June 30, | <br>Principal    | <br>Interest    | Loan Fee        | Total            |
|-----------------------------|------------------|-----------------|-----------------|------------------|
| 2020                        | \$<br>4,124,000  | \$<br>144,000   | \$<br>804,000   | \$<br>5,072,000  |
| 2021                        | 4,691,000        | 134,000         | 762,000         | 5,587,000        |
| 2022                        | 4,725,000        | 121,000         | 716,000         | 5,562,000        |
| 2023                        | 4,760,000        | 108,000         | 671,000         | 5,539,000        |
| 2024                        | 4,795,000        | 94,000          | 625,000         | 5,514,000        |
| 2025-2029                   | 23,768,000       | 298,000         | 2,422,000       | 26,488,000       |
| 2030-2034                   | 24,284,000       | 133,000         | 1,228,000       | 25,645,000       |
| 2035-2039                   | 11,140,000       | 18,000          | 274,000         | 11,432,000       |
|                             | \$<br>82,287,000 | \$<br>1,050,000 | \$<br>7,502,000 | \$<br>90,839,000 |

#### **NOTE I - LONG-TERM LIABILITIES**

Changes in long-term liabilities for the fiscal years ended June 30, 2019 and 2018 are as follows:

|                                           | Balance                         |                  |                                  |    | Balance                   | Current          |
|-------------------------------------------|---------------------------------|------------------|----------------------------------|----|---------------------------|------------------|
|                                           | July 1, 2018 _                  | <br>Additions    | Reductions                       | •  | lune 30, 2019             | Portion          |
| Bonds payable<br>Add: unamortized premium | \$<br>214,840,000<br>18,052,342 | \$<br>           | \$<br>(8,550,000)<br>(1,741,887) | \$ | 206,290,000<br>16,310,455 | \$<br>8,820,000  |
| Total bonds payable                       | 232,892,342                     | _                | (10,291,887)                     |    | 222,600,455               | 8,820,000        |
| Notes payable                             | 67,434,722                      | 18,048,072       | (3,195,391)                      |    | 82,287,403                | 4,124,240        |
| Accrued vacation                          | 7,016,280                       | 2,699,440        | (2,941,584)                      |    | 6,774,136                 | 2,941,584        |
| Accrued workers' compensation             | 3,549,186                       | 1,381,107        | (1,081,451)                      |    | 3,848,842                 | 1,068,132        |
| Customer advances                         | 1,606,003                       | 6,441,377        | (5,633,096)                      |    | 2,414,284                 | **               |
| Other                                     | 3,704,937                       | 1,404,304        | (2,371,628)                      |    | 2,737,613                 |                  |
|                                           | \$<br>316,203,470               | \$<br>29,974,300 | \$<br>(25,515,037)               | \$ | 320,662,733               | \$<br>16,953,956 |

NOTE I - LONG-TERM LIABILITIES (Continued)

|                                                              | Balance<br>July 1, 2017                        | Additions                     |     | Reductions                                 | Balance<br>June 30, 2018                       | Current<br>Portion     |
|--------------------------------------------------------------|------------------------------------------------|-------------------------------|-----|--------------------------------------------|------------------------------------------------|------------------------|
| Bonds payable  Add: unamortized premium  Total bonds payable | \$<br>223,205,000<br>19,917,539<br>243,122,539 | \$<br>                        | \$1 | (8,365,000)<br>(1,865,197)<br>(10,230,197) | \$<br>214,840,000<br>18,052,342<br>232,892,342 | \$<br>8,550,000<br>    |
| Notes payable Accrued vacation                               | 73,007,901<br>6,976,499                        | 8,564,034<br>2,890,782        |     | (14,137,213)<br>(2,851,001)                | 67,434,722<br>7,016,280                        | 3,179,667<br>2,851,001 |
| Accrued workers' compensation<br>Customer advances           | 2,267,155<br>1,529,622                         | 2,441,751<br>8,915,036        |     | (1, 159, 720)<br>(8, 838, 655)             | 3,549,186<br>1,606,003                         | 1,033,217<br>-         |
| Other                                                        | \$<br>3,574,344 330,478,060                    | \$<br>1,383,598<br>24,195,201 | \$  | (1,253,005)                                | \$<br>3,704,937                                | \$<br>15,613,885       |

### **NOTE J - NET POSITION**

The BWS's net position consisted of the following as of June 30, 2019 and 2018:

|                                                  | _  | 2019          | _  | 2018          |
|--------------------------------------------------|----|---------------|----|---------------|
| Net investment in capital assets                 |    |               |    |               |
| Capital assets, net                              | \$ | 1,188,906,480 | \$ | 1,150,029,283 |
| Deferred loss on refunding                       |    | 15,572,789    |    | 17,085,994    |
| Less: noncurrent portion of water system         |    |               |    |               |
| revenue bonds payable                            |    | (213,780,455) |    | (224,342,342) |
| Less: noncurrent portion of notes payable        |    | (78,163,163)  |    | (64,255,055)  |
| Unspent debt proceeds                            |    | 2,203,682     |    | 4,291,362     |
|                                                  |    | 914,739,333   |    | 882,809,242   |
| Restricted for capital activity and debt service |    |               |    |               |
| Restricted cash and cash equivalents             |    | 24,438,172    |    | 18,856,615    |
| Restricted investments                           |    | 21,149,006    |    | 23,329,505    |
| Less: unspent debt proceeds                      |    | (2,203,682)   |    | (4,291,362)   |
| Less: contracts payable, including retainages    |    | (3,585,739)   |    | (3,267,464)   |
| Less: accrued interest payable                   |    | (4,706,312)   |    | (4,781,189)   |
| Less: bonds payable, current portion             |    | (8,820,000)   |    | (8,550,000)   |
| Less: notes payable, current portion             |    | (4,124,240)   |    | (3,179,667)   |
|                                                  |    | 22,147,205    |    | 18,116,438    |
| Unrestricted                                     |    | 256,625,778   |    | 246,349,577   |
|                                                  | \$ | 1,193,512,316 | \$ | 1,147,275,257 |

#### **NOTE K - LEASES**

The BWS leases space for its deep seawater cooling project on Oahu under an operating lease that extends through September 2025. The lease is subject to early cancellation contingent on mutual agreement between the BWS and the lessor. Rent expense under this lease totaled \$159,000 for the fiscal years ended June 30, 2019 and 2018.

The BWS also leases certain properties to other users, primarily utility and telecommunications companies, under multi-year license agreements. The terms of these agreements range from 5 to 30 years through December 2031. The agreements are generally based on fixed annual amounts, with provisions for increases.

The future minimum rental payments and revenue from these operating leases at June 30, 2019 were as follows:

| Fiscal Year Ending June 30, |    | Future<br>Minimum<br>Rental<br>Payments |    | Future<br>Minimum<br>Rental<br>Revenue |
|-----------------------------|----|-----------------------------------------|----|----------------------------------------|
| 2020                        | \$ | (159,000)                               | \$ | 122,000                                |
| 2021                        |    | (159,000)                               |    | 122,000                                |
| 2022                        |    | (159,000)                               |    | 113,000                                |
| 2023                        |    | (159,000)                               |    | 104,000                                |
| 2024                        |    | (159,000)                               |    | 100,000                                |
| 2025-2029                   |    | (192,000)                               |    | 500,000                                |
| 2030-2034                   |    | _                                       |    | 200,000                                |
|                             | \$ | (987,000)                               | \$ | 1,261,000                              |
|                             | Ф  | (907,000)                               | Φ  | 1,201,000                              |

#### **NOTE L - RELATED PARTY TRANSACTIONS**

The BWS has an agreement with the Department of Environmental Services, City and County of Honolulu to provide certain services relating to the billing and collection of sewer service charges. For the fiscal years ended June 30, 2019 and 2018 fees related to these services totaled \$2,559,109 and \$3,106,817, respectively.

The BWS has an agreement with the City to pay a central administrative services expense ("CASE") fee for treasury, personnel, purchasing and other services that the City provides to the BWS on an on-going basis. The BWS's Charter allows for CASE fees to the extent that it represents a reasonable charge for services necessary for the BWS to perform its duties. CASE fees totaled \$3,300,000 for the fiscal years ended June 30, 2019 and 2018.

As of June 30, 2019 and 2018, amounts due from the City for water charges totaled \$2,059,213 and \$1,845,926, respectively, and are included in customer receivables in the statements of net position.

The BWS has entered into agreements with the City for joint capital projects. Unexpended advanced funds totaled \$826,000 as of June 30, 2019 and 2018 and are included in other liabilities in the statements of net position.

#### **NOTE M - EMPLOYEE BENEFIT PLANS**

#### Pension Plan

Plan description. The ERS is a cost-sharing, multiple-employer public employee retirement system established as a defined benefit pension plan to administer a pension benefits program for all eligible employees of the state and counties of Hawaii. Benefit terms, eligibility, and contribution requirements are established by Chapter 88 of the Hawaii Revised Statutes and can be amended through legislation.

The ERS provides retirement, disability and death benefits that are covered by the provisions of the noncontributory, contributory and hybrid retirement membership classes. The three classes provide a monthly retirement allowance equal to the benefit multiplier (generally 1.25% or 2%) multiplied by the average final compensation multiplied by years of credited service. Average final compensation is an average of the highest salaries during any three years of credited service, excluding any salary paid in lieu of vacation for employees hired January 1, 1971 or later and the average of the highest salaries during any five years of credited service including any salary paid in lieu of vacation for employees hired prior to January 1, 1971.

For members hired before July 1, 2012, the original retirement allowance is increased by 2.5% each July 1 following the calendar year of retirement. This cumulative benefit is not compounded and increases each year by 2.5% of the original retirement allowance without a ceiling (2.5% of the original retirement allowance the first year, 5.0% the second year, 7.5% the third year, etc.). For members hired after June 30, 2012, the post-retirement annuity increase was decreased to 1.5% per year.

#### Noncontributory Class

- oe Retirement Benefits General employees' retirement benefits are determined as 1.25%e of average final compensation multiplied by the years of credited service. Employeese with 10 years of credited service are eligible to retire at age 62. Employees with 30 yearse of credited service are eligible to retire at age 55.e
- oe Disability Benefits Members are eligible for service-related disability benefits regardlesse of length of service and receive a lifetime pension of 35% of their average finale compensation. Ten years of credited service is required for ordinary disability. Ordinarye disability benefits are determined in the same manner as retirement benefits but aree payable immediately, without an actuarial reduction, and at a minimum of 12.5% ofe average final compensation.e
- oe Death Benefits For service-connected deaths, the surviving spouse/reciprocale beneficiary receives a monthly benefit of 30% of the average final compensation untile remarriage or re-entry into a new reciprocal beneficiary relationship. Additional benefitse are payable to surviving dependent children up to age 18. If there is noe spouse/reciprocal beneficiary or dependent children, no benefit is payable.e

#### NOTE M - EMPLOYEE BENEFIT PLANS (Continued)

Ten years of credited service is required for ordinary death benefits. For ordinary death benefits, the surviving spouse/reciprocal beneficiary (until remarriage/re-entry into a new reciprocal beneficiary relationship) and dependent children (up to age 18) receive a benefit equal to a percentage of member's accrued maximum allowance unreduced for age or, if the member was eligible for retirement at the time of death, the surviving spouse/reciprocal beneficiary receives 100% joint and survivor lifetime pension.

### Contributory Class for Employees Hired Prior to July 1, 2012

- oe Retirement Benefits General employees' retirement benefits are determined as 2% ofe average final compensation multiplied by the years of credited service. Generale employees with five years of credited service are eligible to retire at age 55.e
- O Disability Benefits Members are eligible for service-related disability benefits regardless of length of service and receive a one-time payment of the member's contributions and accrued interest plus a lifetime pension of 50% of their average final compensation. Ten years of credited service is required for ordinary disability. Ordinary disability benefits are determined as 1.75% of average final compensation multiplied by the years of credited service but are payable immediately, without an actuarial reduction, and at a minimum of 30% of average final compensation.
- oe Death Benefits For service-connected deaths, the surviving spouse/reciprocale beneficiary receives a lump sum payment of the member's contributions and accruede interest plus a monthly benefit of 50% of the average final compensation until remarriagee or re-entry into a new reciprocal beneficiary relationship. If there is no survivinge spouse/reciprocal beneficiary, surviving children (up to age 18) or dependent parents aree eligible for the monthly benefit. If there is no spouse/reciprocal beneficiary or dependente children/parents, the death benefit is payable to the designated beneficiary.e

Ordinary death benefits are available to employees who were active at time of death withe at least one year of service. Ordinary death benefits consist of a lump sum payment ofe the member's contributions and accrued interest plus a percentage of the salary earnede in the 12 months preceding death, or 50% Joint and Survivor lifetime pension if thee member was not eligible for retirement at the time of death but was credited with at leaste 10 years of service and designated one beneficiary, or 100% Joint and Survivor lifetimee pension if the member was eligible for retirement at the time of death and designatede one beneficiary.e

### Contributory Class for Employees Hired After June 30, 2012

- oe Retirement Benefits General employees' retirement benefits are determined as 1.75%e of average final compensation multiplied by the years of credited service. Generale employees with 10 years of credited service are eligible to retire at age 60.e
- oe Disability and Death Benefits Disability and benefits for contributory class memberse hired after June 30, 2012 are generally the same as those for contributory classe members hired June 30, 2012 and prior.e

### **NOTE M - EMPLOYEE BENEFIT PLANS (Continued)**

### Hybrid Class for Employees Hired Prior to July 1, 2012

- oe Retirement Benefits General employees' retirement benefits are determined as 2% ofe average final compensation multiplied by the years of credited service. Generale employees with five years of credited service are eligible to retire at age 62. Generale employees with 30 years of credited service are eligible to retire at age 55.e
- oe Disability Benefits Members are eligible for service-related disability benefits regardlesse of length of service and receive a lifetime pension of 35% of their average finale compensation plus refund of their contributions and accrued interest. Ten years ofe credited service is required for ordinary disability. Ordinary disability benefits aree determined in the same manner as retirement benefits but are payable immediately, e without an actuarial reduction, and at a minimum of 25% of average final compensation.e
- oe Death Benefits For service-connected deaths, the designated survivinge spouse/reciprocal beneficiary receives a lump sum payment of the member'se contributions and accrued interest plus a monthly benefit of 50% of the average finale compensation until remarriage or re-entry into a new reciprocal beneficiary relationship.e If there is no surviving spouse/reciprocal beneficiary, surviving children (up to age 18) ore dependent parents are eligible for the monthly benefit. If there is no spouse/reciprocale beneficiary or dependent children/parents, the death benefit is payable to the designatede beneficiary.e

Ordinary death benefits are available to employees who were active at time of death withe at least five years of service. Ordinary death benefits consist of a lump sum payment ofe the member's contributions and accrued interest plus a percentage multiplied by 150%, e or 50% Joint and Survivor lifetime pension if the member was not eligible for retiremente at the time of death but was credited with at least 10 years of service and designated one beneficiary, or 100% Joint and Survivor lifetime pension if the member was eligiblee for retirement at the time of death and designated one beneficiary.

### Hybrid Class for Employees Hired After June 30, 2012

- oe Retirement Benefits General employees' retirement benefits are determined as 1.75%e of average final compensation multiplied by the years of credited service. Generale employees with 10 years of credited service are eligible to retire at age 65. Employeese with 30 years of credited service are eligible to retire at age 60.e
- oe Disability and Death Benefits Provisions for disability and death benefits generallye remain the same except for ordinary death benefits. Ordinary death benefits aree available to employees who were active at time of death with at least 10 years ofe service. Ordinary death benefits consist of a lump sum payment of the member'se contributions and accrued interest, or 50% Joint and Survivor lifetime pension if thee member was not eligible for retirement at the time of death and designated onee beneficiary, or 100% Joint and Survivor lifetime pension if the member was eligible fore retirement at the time of death and designated one beneficiary.

### NOTE M - EMPLOYEE BENEFIT PLANS (Continued)

Contributions. The employer contribution rate is a fixed percentage of compensation. The employer contribution rate for general employees was 19% and 18% for the fiscal years ended June 30, 2019 and 2018, respectively. For the fiscal years ended June 30, 2019 and 2018, contributions to the pension plan from the BWS totaled \$7,937,402 and \$7,561,614, respectively.

The employer is required to make all contributions for noncontributory members. For contributory class employees hired prior to July 1, 2012, general employees are required to contribute 7.8% of their salary. For contributing class employees hired after June 30, 2012, general employees are required to contribute 9.8% of their salary. Hybrid class members hired prior to July 1, 2012 are required to contribute 6.0% of their salary. Hybrid class members hired after June 30, 2012 are required to contribute 8.0% of their salary.

### Pension Liabilities, Pension Expense, and Deferred Outflows of Resources and Deferred Inflows of Resources Related to Pensions

At June 30, 2019 and 2018, the BWS reported a liability of \$120,348,341 and \$113,350,294, respectively, for its proportionate share of the net pension liability. The net pension liability was measured as of June 30, 2018 and 2017, respectively, and the total pension liability used to calculate the net pension liability was determined by an actuarial valuation as of those dates. The BWS's proportion of the net pension liability was based on the actual employer contributions to the pension plan relative to the contributions of all participating employers. At June 30, 2018 and 2017, the BWS's proportion was 0.90% and 0.88%, respectively, which was an increase of 0.02% and 0.005% from its proportion measured as of June 30, 2017 and 2016, respectively.

For the fiscal years ended June 30, 2019 and 2018, the BWS recognized pension expense of \$17,626,234 and \$16,917,657, respectively. At June 30, 2019 and 2018, the BWS reported deferred outflows of resources and deferred inflows of resources related to pensions from the following sources:

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|                                                        | June 30, 2019 |             |            |                                         |  |
|--------------------------------------------------------|---------------|-------------|------------|-----------------------------------------|--|
|                                                        | Deferred      |             |            | Deferred                                |  |
|                                                        |               | Outflows of | Inflows of |                                         |  |
|                                                        |               | Resources   |            | Resources                               |  |
| Differences between expected and actual experience     | \$            | 2,170,789   | \$         | 754,112                                 |  |
| Changes of assumptions                                 |               | 12,975,494  |            | _                                       |  |
| Net difference between projected and actual earnings   |               |             |            |                                         |  |
| on pension plan investments                            |               | _           |            | 621,753                                 |  |
| Changes in proportion and differences between employer |               |             |            |                                         |  |
| contributions and proportionate share of continubtions |               | 5,238,978   |            | 2,074,401                               |  |
| Employer contributions subsequent to the measurement   |               |             |            |                                         |  |
| date                                                   |               | 7,387,857   |            | _                                       |  |
|                                                        | \$            | 27,773,118  | \$         | 3,450,266                               |  |
|                                                        |               | 11          |            | 2 2/2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 |  |

### **NOTE M - EMPLOYEE BENEFIT PLANS (Continued)**

|                                                        | June 30, 2018 |             |      | 18         |
|--------------------------------------------------------|---------------|-------------|------|------------|
|                                                        | Deferred      |             |      | Deferred   |
|                                                        |               | Outflows of |      | inflows of |
|                                                        |               | Resources   |      | Resources  |
| Differences between expected and actual experience     | \$            | 1,816,533   | \$   | 1,214,716  |
| Changes of assumptions                                 |               | 17,308,162  |      | _          |
| Net difference between projected and actual earnings   |               |             |      |            |
| on pension plan investments                            |               | -           |      | 335,614    |
| Changes in proportion and differences between employer |               |             |      |            |
| contributions and proportionate share of contributions |               | 5,245,530   |      | 2,825,289  |
| Employer contributions subsequent to the measurement   |               |             |      |            |
| date                                                   |               | 7,561,614   |      |            |
|                                                        | \$            | 31,931,839  | \$ _ | 4,375,619  |

At June 30, 2019, the BWS reported \$7,387,857 of deferred outflows of resources related to pensions resulting from BWS contributions subsequent to the measurement date, which will be recognized as a reduction of the net pension liability in the fiscal year ended June 30, 2020. Other amounts reported as deferred outflows of resources and deferred inflows of resources at June 30, 2019 will be recognized in pension expense as follows:

| Fiscal Year    | N                | Net Deferred |  |  |  |
|----------------|------------------|--------------|--|--|--|
| Ended June 30: | Outflows (Inflow |              |  |  |  |
| 2020           | \$               | 8,302,288    |  |  |  |
| 2021           |                  | 5,579,215    |  |  |  |
| 2022           |                  | 2,121,881    |  |  |  |
| 2023           |                  | 630,802      |  |  |  |
| 2024           | _                | 300,809      |  |  |  |
|                | \$               | 16,934,995   |  |  |  |

#### **NOTE M - EMPLOYEE BENEFIT PLANS (Continued)**

Actuarial assumptions. The total pension liability in the June 30, 2018 and 2017 actuarial valuation was determined using the following actuarial assumptions, applied to all periods included in the measurement:

|                                                | 2018           | 2017           |
|------------------------------------------------|----------------|----------------|
| Inflation                                      | 2.50%          | 2.50%          |
| Investment rate of return, including inflation | 7.00%          | 7.00%          |
| Salary increases, including inflation          |                |                |
| Police and fire employees                      | 5.00% to 7.00% | 5.00% to 7.00% |
| General employees                              | 3.50% to 6.50% | 3.50% to 6.50% |
| Teachers                                       | 3.75% to 5.75% | 3.75% to 5.75% |

Mortality rates used in the actuarial valuation as of June 30, 2018 and 2017 were based on the following:

Active members - Multiples of the RP 2014 mortality table for active employees based on the occupation of the member.

Healthy retirees - The 2016 Public Retirees of Hawaii mortality table, generational projection using the BB projection table from the year 2016 and with multipliers based on plan and group experience.

Disabled retirees - Base table for healthy retirees' occupation, set forward five years, generational projection using the BB projection table from the year 2016. Minimum mortality rate of 3.5% for males and 2.5% for females.

The actuarial assumptions used in the actuarial valuation as of June 30, 2018 and 2017 were based on the results of an actuarial experience study for the five-year period ended June 30, 2015.

The long-term expected rate of return on pension plan investments, based on ERS' investment consultant, was determined using a building-block method in which best-estimate ranges of expected future real rates of return (expected returns, net of pension plan investment expense and inflation) are developed for each major asset class. These ranges are combined to produce the long-term expected rate of return by weighting the expected future real rates of return by the target asset allocation percentage and by adding expected inflation. The target allocation and best estimates of geometric real rates of return for each major asset class as of June 30, 2018 and 2017 are summarized in the following tables:

**NOTE M - EMPLOYEE BENEFIT PLANS (Continued)** 

|                      | June 30, 2018 |                |                  |  |  |  |
|----------------------|---------------|----------------|------------------|--|--|--|
|                      |               | Long-Term      | Long-Term        |  |  |  |
| Strategic Allocation | Target        | Expected       | Expected Real    |  |  |  |
| (Risk-Based Classes) | Allocation    | Rate of Return | Rate of Return * |  |  |  |
| Broad growth         | 63.00%        | 7.10%          | 4.85%            |  |  |  |
| Principal protection | 7.00%         | 2.50%          | 0.25%            |  |  |  |
| Real return          | 10.00%        | 4.10%          | 1.85%            |  |  |  |
| Crisis risk offset   | 20.00%        | 4.60%          | 2.35%            |  |  |  |
|                      | 100.00%       |                |                  |  |  |  |

<sup>\*</sup> Uses an expected inflation of 2.25%

|                      |            | June 30, 2017  |                  |
|----------------------|------------|----------------|------------------|
|                      |            | Long-Term      | Long-Term        |
| Strategic Allocation | Target     | Expected       | Expected Real    |
| (Risk-Based Classes) | Allocation | Rate of Return | Rate of Return * |
| Broad growth         | 63.00%     | 8.05%          | 5.80%            |
| Principal protection | 7.00%      | 2.45%          | 0.20%            |
| Real return          | 10.00%     | 5.80%          | 3.55%            |
| Crisis risk offset   | 20.00%     | 5.35%          | 3.10%            |
|                      | 100.00%    |                |                  |

<sup>\*</sup> Uses an expected inflation of 2.25%

Discount rate. The discount rate used to measure the total pension liability at June 30, 2019 and 2018 was 7.00%. The projection of cash flows used to determine the discount rate assumed that employee contributions will be made at the current contribution rate and that contributions from employers will be made at statutorily required rates, actuarially determined. Based on those assumptions, the pension plan's fiduciary net position was projected to be available to make all projected future benefit payments of current active and inactive employees. Therefore, the long-term expected rate of return on pension plan investments was applied to all periods of projected benefit payments to determine the total pension liability.

#### **NOTE M - EMPLOYEE BENEFIT PLANS (Continued)**

Sensitivity of the BWS's proportionate share of the net pension liability to changes in the discount rate. The following presents the BWS's proportionate share of the net pension liability calculated as of the fiscal years ended June 30, 2019 and 2018 using the discount rate of 7.00%, as well as what the BWS's proportionate share of the net pension liability would be if it were calculated using a discount rate that is 1-percentage point lower or 1-percentage point higher than the current rate:

|                                                  | June 30, 2019          |                                 |                                         |  |  |  |  |  |
|--------------------------------------------------|------------------------|---------------------------------|-----------------------------------------|--|--|--|--|--|
|                                                  | 1% Decrease<br>(6.00%) | Current Discount Rate (7.00%)   | 1% Increase<br>(8.00%)<br>\$ 90,552,169 |  |  |  |  |  |
| Proportionate share of the net pension liability | \$ 156,493,555         | \$ 120,348,341<br>June 30, 2018 |                                         |  |  |  |  |  |
|                                                  |                        |                                 |                                         |  |  |  |  |  |
|                                                  | 1% Decrease<br>(6.00%) | Current Discount Rate(7.00%)    | 1% Increase<br>(8.00%)                  |  |  |  |  |  |
| Proportionate share of the net pension liability | \$ 146,890,615         | \$ 113,350,294                  | \$ 85,694,584                           |  |  |  |  |  |

Pension plan fiduciary net position. Detailed information about the pension plan's fiduciary net position is available in the separately issued ERS financial report. ERS's complete financial statements are available at ers.ehawaii.gov.

#### Payable to the Pension Plan

At June 30, 2019 and 2018, the amount payable to the ERS totaled \$714,455 and \$1,484,267, respectively, which consists of statutorily required employer contributions for the month of June 2019 and 2018, respectively, and excess pension costs required by the HRS for fiscal year 2019 and 2018, respectively.

### **Postemployment Benefits Other Than Pensions (OPEB)**

### General Information about the OPEB Plan

Plan description. Chapter 87A of the Hawaii Revised Statutes ("HRS") established the EUTF, an agent multiple-employer defined benefit plan, which provides a single delivery system of health and other benefits for state and county workers, retirees and their eligible dependents. The EUTF issues a stand-alone financial report that is available to the public on its website at https://eutf.hawaii.gov.

#### **NOTE M - EMPLOYEE BENEFIT PLANS (Continued)**

Benefits provided. Chapter 87A of the HRS grants the authority to establish and amend the benefit terms to the board of trustees of the EUTF. The EUTF currently provides medical, prescription drug, dental, vision, chiropractic, supplemental medical and prescription drug, and group life insurance benefits for retirees and their dependents. The following table provides a summary of the number of employees covered by the benefits terms as of July 1, 2018 and 2017:

|                                                                  | 2019  | 2018  |
|------------------------------------------------------------------|-------|-------|
| Inactive employees or beneficiaries currently receiving benefits | 592   | 580   |
| Inactive employees entitled but not yet receiving benefits       | 52    | 53    |
| Active employees                                                 | 568   | 570   |
|                                                                  | 1,212 | 1,203 |

Contributions. The BWS's contribution levels are established by Chapter 87A of the HRS. For the fiscal years ended June 30, 2019 and 2018, the BWS was required to contribute a minimum amount equal to at least 100% and 80%, respectively, of the annual required contribution ("ARC"), as determined by an actuary retained by the board of trustees of the EUTF. The ARC represents a level of funding that is sufficient to cover, 1) the normal cost, which is the cost of the other postemployment benefits attributable to the current year of service; and 2) an amortization payment, which is a catch-up payment for past service costs to fund the unfunded actuarial accrued liability over the next thirty years. For the fiscal years ended June 30, 2019 and 2018, contributions to the OPEB plan from the BWS totaled \$7,945,000 and \$8,855,338, respectively, which resulted in an average contribution rate of approximately 20.0% and 23.3%, respectively, of covered-employee payroll.

For employees hired before July 1, 1996, the BWS pays the entire base monthly contribution for employees retiring with 10 or more years of credited service, and 50% of the base monthly contribution for employees retiring with fewer than 10 years of credited service. A retiree can elect a family plan to cover dependents. The BWS's contribution is based on the plan selected by the retiree (single, two-party, or family plans).

For employees hired after June 30, 1996, but before July 1, 2001, and who retire with fewer than 10 years of service, the BWS makes no contributions. For those retiring with at least 10 years of service but fewer than 15 years of service, the BWS pays 50% of the base monthly contribution. For employees retiring with at least 15 years of service but fewer than 25 years of service, the BWS pays 75% of the base monthly contribution. For employees retiring with at least 25 years of service, the BWS pays 100% of the base monthly contribution. The BWS's contribution is based on the plan selected by the retiree (single, two-party, or family plans).

#### **NOTE M - EMPLOYEE BENEFIT PLANS (Continued)**

For employees hired on or after July 1, 2001, and who retire with less than 10 years of service, the BWS makes no contributions. For those retiring with at least 10 years but fewer than 15 years of service, the BWS pays 50% of the base monthly contribution. For those retiring with at least 15 years but fewer than 25 years of service, the BWS pays 75% of the base monthly contribution. For those employees retiring with at least 25 years of service, the BWS pays 100% of the base monthly contribution. Only single plan coverage is provided for retirees in this category. The BWS's contribution is based on the single plan base monthly contribution. Retirees can elect family coverage but must pay the difference.

#### Net OPEB Liability

The BWS's net OPEB liability as of June 30, 2019 and 2018 was measured as of July 1, 2018 and 2017, respectively, and the total OPEB liability used to calculate the net OPEB liability was determined by an actuarial valuation as of those dates.

Actuarial assumptions. The total OPEB liability in the July 1, 2018 actuarial valuation was determined using the following actuarial assumptions, applied to all periods included in the measurement, unless otherwise specified:

Inflation 2.50%

Salary increases 3.50% to 7.00%, including inflation

Investment rate of return 7.00%

Healthcare cost trend rates

PPO Initial rate of 10.00% declining to a rate of

4.86% after 13 years

HMO Initial rate of 10.00%; declining to a rate of

4.86% after 13 years

Part B & base monthly contribution Initial rates of 4.00% and 5.00%, declining

to a rate of 4.70% after 12 years

Dental Initial rates of 5.00% for first three years,

followed by 4.00%

Vision Initial rates of 0.00% for first three years,

followed by 2.50%

Life insurance 0.00%

### **NOTE M - EMPLOYEE BENEFIT PLANS (Continued)**

The total OPEB liability in the July 1, 2017 actuarial valuation was determined using the following actuarial assumptions, applied to all periods included in the measurement, unless otherwise specified:

Inflation 2.50%

Salary increases 3.50% to 7.00%, including inflation

Investment rate of return 7.00%

Healthcare cost trend rates

PPO Initial rates of 6.60%, 6.60% and 9.00%;

declining to a rate of 4.86% after 14 years

HMO Initial rate of 9.00%; declining to a rate of

4.86% after 14 years

Part B & base monthly contribution Initial rates of 2.00% and 5.00%, declining

to a rate of 4.70% after 14 years

 Dental
 3.50%

 Vision
 2.50%

 Life insurance
 0.00%

Mortality rates used in the actuarial valuation as of July 1, 2018 and 2017 were based on the following:

Active members - Multiples of the RP 2014 mortality table for employees with generational projection using the BB projection table from the year 2014 based on the occupation of the member.

Healthy retirees - The 2016 Public Retirees of Hawaii mortality table, generational projection using the BB projection table from the year 2016 and with multipliers based on plan and group experience.

Disabled retirees - Base table for healthy retirees' occupation, set forward five years, generational projection using the BB projection table from the year 2016. Minimum mortality rate of 3.50% for males and 2.50% for females.

The actuarial assumptions used in the actuarial valuation as of July 1, 2018 and 2017 were based on the results of an actuarial experience study for the five-year period ended June 30, 2015 as conducted for the ERS.

#### NOTE M - EMPLOYEE BENEFIT PLANS (Continued)

The long-term expected rate of return on OPEB plan investments was determined using a building-block method in which best-estimate ranges of expected future real rates of return (expected returns, net of OPEB plan investment expense and inflation) are developed for each major asset class. These ranges are combined to produce the long-term expected rate of return by weighting the expected future real rates of return by the target asset allocation percentage and by adding expected inflation. The target allocation and best estimates of arithmetic real rates of return for each major asset class as of July 1, 2018 and 2017 are summarized in the following table:

|                        |            | 2019           | 2018       |                      |  |  |  |
|------------------------|------------|----------------|------------|----------------------|--|--|--|
|                        |            | Long-Term      |            | Long-Term            |  |  |  |
|                        | Target     | Expected Real  | Target     | <b>Expected Real</b> |  |  |  |
| Asset Class            | Allocation | Rate of Return | Allocation | Rate of Return       |  |  |  |
| International equity   | 17.00%     | 6.50%          | 19.00%     | 7.00%                |  |  |  |
| U.S. equity            | 15.00%     | 5.05%          | 19.00%     | 5.50%                |  |  |  |
| Private equity         | 10.00%     | 8.65%          | 10.00%     | 9.25%                |  |  |  |
| Core real estate       | 10.00%     | 4.10%          | 10.00%     | 3.80%                |  |  |  |
| Trend following        | 9.00%      | 3.00%          | 7.00%      | 1.75%                |  |  |  |
| U.S. microcap          | 7.00%      | 7.00%          | 7.00%      | 7.00%                |  |  |  |
| Global options         | 7.00%      | 4.50%          | 7.00%      | 5.50%                |  |  |  |
| Private credit         | 6.00%      | 5.25%          | 0.00%      | 0.00%                |  |  |  |
| Long treasuries        | 6.00%      | 1.90%          | 7.00%      | 1.90%                |  |  |  |
| Alternate risk premium | 5.00%      | 2.45%          | 0.00%      | 0.00%                |  |  |  |
| TIPS                   | 5.00%      | 0.75%          | 5.00%      | 0.50%                |  |  |  |
| Core bonds             | 3.00%      | 1.30%          | 3.00%      | 0.55%                |  |  |  |
| REITs                  | 0.00%      | 0.00%          | 6.00%      | 5.85%                |  |  |  |
|                        | 100.00%    |                | 100.00%    |                      |  |  |  |

Discount rate. The discount rate used to measure the total OPEB liability at June 30, 2019 and 2018 was 7.00%. The projection of cash flows used to determine the discount rate assumed that BWS contributions will be made at rates equal to the actuarially determined contribution rates. Based on those assumptions, the OPEB plan's fiduciary net position was projected to be available to make all projected future benefit payments for current active and inactive employees. Therefore, the long-term expected rate of return on OPEB plan investments was applied to all periods of projected benefit payments to determine the total OPEB liability.

### NOTE M - EMPLOYEE BENEFIT PLANS (Continued)

### Changes in the Net OPEB Liability

The following schedules present the changes in the net OPEB liability for the fiscal years ending June 30, 2019 and 2018:

|                                      |                | Increase (Decrease  | )             |
|--------------------------------------|----------------|---------------------|---------------|
|                                      | Total OPEB     | Plan Fiduciary      | Net OPEB      |
|                                      | Liability      | Net Position        | Liability     |
|                                      | (a)            | (b)                 | (a) - (b)     |
| Balance at June 30, 2018             | \$ 146,389,649 | \$ 71,667,726       | \$ 74,721,923 |
| Changes for the fiscal year:         |                |                     |               |
| Service cost                         | 2,480,098      | -                   | 2,480,098     |
| Interest on the total OPEB liability | 10,129,142     | _                   | 10,129,142    |
| Difference between expected and      |                |                     |               |
| actual experience                    | (2,312,485)    |                     | (2,312,485)   |
| Changes of assumptions               | 2,183,447      | _                   | 2,183,447     |
| Contributions - employer             | _              | 8,855,338           | (8,855,338)   |
| Net investment income                | _              | 5,235,037           | (5,235,037)   |
| Benefit payments                     | (5,855,338)    | (5,855,338)         | _             |
| Administrative expense               | -              | (15,933)            | 15,933        |
| Other                                |                |                     |               |
| Net changes                          | 6,624,864      | 8,219,104           | (1,594,240)   |
| Balance at June 30, 2019             | \$ 153,014,513 | \$ 79,886,830       | \$ 73,127,683 |
|                                      |                | Increase (Decrease) |               |
|                                      | Total OPEB     | Plan Fiduciary      | Net OPEB      |
|                                      | Liability      | Net Position        | Liability     |
|                                      | (a)            | (b)                 | (a) - (b)     |
| Balance at June 30, 2017             | \$ 140,024,777 | \$ 59,573,594       | \$ 80,451,183 |
| Changes for the fiscal year:         |                |                     |               |
| Service cost                         | 2,404,087      | _                   | 2,404,087     |
| Interest on the total OPEB liability | 9,685,512      | _                   | 9,685,512     |
| Contributions - employer             | _              | 11,724,727          | (11,724,727)  |
| Net investment income                | -              | 6,029,726           | (6,029,726)   |
| Benefit payments                     | (5,724,727)    | (5,724,727)         | -             |
| Administrative expense               | -              | (13,794)            | 13,794        |
| Other                                |                | 78,200              | (78,200)      |
| Net changes                          | 6,364,872      | 12,094,132          | (5,729,260)   |
| Balance at June 30, 2018             | \$ 146,389,649 | \$ 71,667,726       | \$74,721,923  |

### NOTE M - EMPLOYEE BENEFIT PLANS (Continued)

Sensitivity of the net OPEB Liability to changes in the discount rate. The following presents the net OPEB liability of the BWS, as well as what the BWS's net OPEB liability would be if it were calculated using a discount rate that is 1-percentage point lower or 1-percentage point higher than the current discount rate:

|                    | June 30, 2019                                                  |  |  |  |  |  |  |  |
|--------------------|----------------------------------------------------------------|--|--|--|--|--|--|--|
|                    | 1% Decrease Discount Rate 1% Increase (6.00%) (7.00%) (8.00%)  |  |  |  |  |  |  |  |
| Net OPEB Liability | \$ <u>96,267,884</u> \$ <u>73,127,683</u> \$ <u>54,940,141</u> |  |  |  |  |  |  |  |
|                    | June 30, 2018                                                  |  |  |  |  |  |  |  |
|                    | 1% Decrease Discount Rate 1% Increase (6.00%) (7.00%) (8.00%)  |  |  |  |  |  |  |  |
| Net OPEB Liability | \$ _96,608,229 \$ 74,721,923 \$ 56,878,627                     |  |  |  |  |  |  |  |

Sensitivity of the net OPEB Liability to changes in the healthcare cost trend rates. The following presents the net OPEB liability of the BWS, as well as what the BWS's net OPEB liability would be if it were calculated using healthcare cost trend rates that are 1-percentage point lower or 1-percentage point higher than the current healthcare cost trend rates:

| _                  |                | June 30, 2019 |               |  |  |  |  |  |
|--------------------|----------------|---------------|---------------|--|--|--|--|--|
|                    | Current        |               |               |  |  |  |  |  |
|                    | Healthcare     |               |               |  |  |  |  |  |
|                    | =              | Cost Trend    |               |  |  |  |  |  |
|                    | 1% Decrease    | Rates         | 1% Increase   |  |  |  |  |  |
| Net OPEB Liability | \$54,329,692   | \$73,127,683  | \$ 97,393,040 |  |  |  |  |  |
| _                  | June 30, 2018  |               |               |  |  |  |  |  |
| ·                  |                | Current       |               |  |  |  |  |  |
|                    |                | Healthcare    |               |  |  |  |  |  |
|                    |                |               |               |  |  |  |  |  |
|                    | 1% Decrease    | Rates         | 1% Increase   |  |  |  |  |  |
| Net OPEB Liability | \$ _56,208,713 | \$74,721,923  | \$ 97,787,751 |  |  |  |  |  |

### **NOTE M - EMPLOYEE BENEFIT PLANS (Continued)**

### OPEB Expense and Deferred Outflows of Resources and Deferred Inflows of Resources Related to OPEB

For the fiscal years ended June 30, 2019 and 2018, the BWS recognized OPEB expense of \$7,127,521 and \$7,313,323, respectively. At June 30, 2019 and 2018, the BWS reported deferred outflows of resources and deferred inflows of resources related to OPEB from the following sources:

|                                                      | June 30, 2019 |             |        |            |  |
|------------------------------------------------------|---------------|-------------|--------|------------|--|
|                                                      |               | Deferred    |        | Deferred   |  |
|                                                      |               | Outflows of |        | Inflows of |  |
|                                                      | _             | Resources   | _      | Resources  |  |
| Differences between expected and actual experience   | \$            | -           | \$     | 1,878,175  |  |
| Changes of assumptions                               |               | 1,773,371   |        | _          |  |
| Net difference between projected and actual earnings |               |             |        |            |  |
| on pension plan investments                          |               | -           |        | 1,079,475  |  |
| Employer contributions subsequent to the measurement |               |             |        |            |  |
| date                                                 |               | 7,945,000   |        |            |  |
|                                                      | \$            | 9,718,371   | \$     | 2,957,650  |  |
|                                                      |               | June 3      | 30. 20 | 018        |  |
|                                                      | _             | Deferred    |        | Deferred   |  |
|                                                      |               | Outflows of |        | Inflows of |  |
|                                                      |               | Resources   |        | Resources  |  |
| Net difference between projected and actual earnings |               |             |        |            |  |
| on OPEB plan investments                             | \$            | -           | \$     | 1,317,856  |  |
| Employer contributions subsequent to the measurement |               |             |        |            |  |
| date                                                 |               | 8,855,338   |        |            |  |
|                                                      | \$            | 8,855,338   | \$     | 1,317,856  |  |

#### NOTE M - EMPLOYEE BENEFIT PLANS (Continued)

At June 30, 2019, the BWS reported \$7,945,000 as deferred outflows of resources related to OPEB resulting from BWS contributions subsequent to the measurement date, which will be recognized as a reduction of the net OPEB liability in the fiscal year ended June 30, 2020. Other amounts reported as deferred outflows of resources and deferred inflows of resources related to OPEB at June 30, 2019 will be recognized in OPEB expense as follows:

| Fiscal Year    | N   | let Deferred    |
|----------------|-----|-----------------|
| Ended June 30: | Out | flows (Inflows) |
| 2020           | \$  | (376,469)       |
| 2021           |     | (376,469)       |
| 2022           |     | (376,469)       |
| 2023           |     | (47,004)        |
| 2024           | _   | (7,868)         |
|                | \$  | (1,184,279)     |

#### NOTE N - COMMITMENTS AND CONTINGENCIES

#### **Contract Commitments**

Commitments, primarily for capital improvements, approximated \$260,328,698 and \$253,543,000 as of June 30, 2019 and 2018, respectively. Such amounts are to be funded by operating revenues, contributed capital, cash and investments on hand.

#### Workers' Compensation Self-Insurance Liability

The BWS is self-insured for workers' compensation and disability claims up to \$600,000 and in excess of \$25,000,000. The BWS has obtained excess insurance coverage for claims that are not self-insured. The BWS provides reserves for claims not covered by insurance that in the opinion of management will result in probable judgment against the BWS.

The liability for losses and loss adjustment expenses is comprised of case reserves and incurred but not reported loss reserves ("IBNR"). Case or outstanding loss reserves represent estimates of ultimate costs to settle reported claims.

Determination of a reserve account for workers' compensation is a significant estimate. It is reasonably possible that one or more future events could result in a material change in the estimated claims loss in the near term.

#### NOTE N - COMMITMENTS AND CONTINGENCIES (Continued)

### Safe Drinking Water

The BWS is subject to the requirements of the Safe Drinking Water Act (the "Act"), which is administered by the State Department of Health on behalf of the U.S. Environmental Protection Agency. Management believes that the BWS is in full compliance with the requirements of the Act and is not aware of any matters under the Act that may materially affect the BWS's customer service area.

#### **Other Legal Matters**

The BWS is party to various legal proceedings arising in the normal course of business. The outcome of individual matters is not predictable. However, management believes that the ultimate resolution of all such matters, after considering insurance coverage, will not have material adverse effect on the BWS's financial position, results of operations, or liquidity.

REQUIRED SUPPLEMENTARY INFORMATION

# Board of Water Supply City and County of Honolulu SCHEDULE OF PROPORTIONATE SHARE OF THE NET PENSION LIABILITY Last Ten Fiscal Years \*

| Measurement<br>Period<br>Ended | Proportion<br>of the<br>Net<br>Pension<br>Liability | 8  | Proportionate<br>Share of the<br>Net Pension<br>Liability | _  | Covered<br>Payroli | Proportionate Share of the Net Pension Liability as a %age of Covered Payroll | Plan Fiduciary Net Position as a %age of the Total Pension Liability |
|--------------------------------|-----------------------------------------------------|----|-----------------------------------------------------------|----|--------------------|-------------------------------------------------------------------------------|----------------------------------------------------------------------|
| June 30, 2018                  | 0.90%                                               | \$ | 120,348,341                                               | \$ | 36,816,067         | 327%                                                                          | 55.48%                                                               |
| June 30, 2017                  | 0.88%                                               | \$ | 113,350,294                                               | \$ | 35,912,898         | 316%                                                                          | 54.80%                                                               |
| June 30, 2016                  | 0.87%                                               | \$ | 116,342,916                                               | \$ | 34,536,085         | 337%                                                                          | 51.28%                                                               |
| June 30, 2015                  | 0.93%                                               | \$ | 81,526,553                                                | \$ | 33,412,761         | 244%                                                                          | 62.42%                                                               |
| June 30, 2014                  | 0.91%                                               | \$ | 73,141,824                                                | \$ | 32,202,276         | 227%                                                                          | 63.92%                                                               |
| June 30, 2013                  | 0.78%                                               | \$ | 69,992,291                                                | \$ | 29,761,149         | 235%                                                                          | 57.96%                                                               |

<sup>\*</sup>eThis schedule is intended to present information for ten years, as of the measurement date of thee collective net pension liability for each respective fiscal year. Additional years will be built prospectively ase information becomes available.e

## Board of Water Supply City and County of Honolulu SCHEDULE OF CONTRIBUTIONS (PENSION) Last Ten Fiscal Years

| Fiscal<br>Year<br>Ended | ı  | Statutorily<br>Required<br>ontribution | in | ontributions Relation to Statutorily Required ontributions | Def | tribution<br>ficiency<br>xcess) | <br>Covered<br>Payroll | Contributions<br>as a %age<br>of Covered<br>Payroll |
|-------------------------|----|----------------------------------------|----|------------------------------------------------------------|-----|---------------------------------|------------------------|-----------------------------------------------------|
| June 30, 2019           | \$ | 7,387,857                              | \$ | 7,387,857                                                  | \$  | -                               | \$<br>38,390,927       | 19.2%                                               |
| June 30, 2018           | \$ | 7,561,614                              | \$ | 7,561,614                                                  | \$  |                                 | \$<br>36,816,067       | 20.5%                                               |
| June 30, 2017           | \$ | 6,885,401                              | \$ | 6,885,401                                                  | \$  |                                 | \$<br>35,912,898       | 19.2%                                               |
| June 30, 2016           | \$ | 6,647,884                              | \$ | 6,647,884                                                  | \$  | -                               | \$<br>34,536,085       | 19.2%                                               |
| June 30, 2015           | \$ | 6,686,641                              | \$ | 6,686,641                                                  | \$  |                                 | \$<br>33,412,761       | 20.0%                                               |
| June 30, 2014           | \$ | 5,931,238                              | \$ | 5,931,238                                                  | \$  | _                               | \$<br>32,202,276       | 18.4%                                               |
| June 30, 2013           | \$ | 4,604,149                              | \$ | 4,604,149                                                  | \$  | _                               | \$<br>29,761,149       | 15.5%                                               |
| June 30, 2012           | \$ | 4,404,845                              | \$ | 4,404,845                                                  | \$  | _                               | \$<br>29,353,916       | 15.0%                                               |
| June 30, 2011           | \$ | 4,497,292                              | \$ | 4,497,292                                                  | \$  | -                               | \$<br>29,981,949       | 15.0%                                               |
| June 30, 2010           | \$ | 4,850,928                              | \$ | 4,850,928                                                  | \$  | -                               | \$<br>32,339,522       | 15.0%                                               |

# Board of Water Supply City and County of Honolulu NOTES TO REQUIRED SUPPLEMENTARY INFORMATION REQUIRED BY GASB STATEMENT NO. 68 Fiscal Years Ended June 30, 2019 and 2018

#### **NOTE A - CHANGES OF ASSUMPTIONS**

There were no changes of assumptions or other inputs that significantly affected the measurement of the total pension liability since the measurement period ended June 30, 2016.

Amounts reported in the schedule of the proportionate share of the net pension liability as of the measurement period ended June 30, 2016 (fiscal year ended June 30, 2017) were significantly impacted by the following changes of actuarial assumptions:

- o The investment return assumption decreased from 7.65% to 7.00%
- Mortality assumptions were modified to assume longer life expectancies as well as to reflect continuous mortality improvement

Prior to the measurement period ended June 30, 2016 (fiscal year ended June 30, 2017), there were no other factors, including the use of different assumptions that significantly affect trends reported in these schedules.

# Board of Water Supply City and County of Honolulu SCHEDULE OF CHANGES IN THE NET OPEB LIABILITY AND RELATED RATIOS Last Ten Fiscal Years \*

|                                                                | 2019 |             |    | 2018        |  |  |
|----------------------------------------------------------------|------|-------------|----|-------------|--|--|
| Total OPEB liability                                           |      |             |    |             |  |  |
| Service cost                                                   | \$   | 2,480,098   | \$ | 2,404,087   |  |  |
| Interest on the total OPEB liability                           |      | 10,129,142  |    | 9,685,512   |  |  |
| Difference between expected and actual experience              |      | (2,312,485) |    | _           |  |  |
| Changes of assumptions                                         |      | 2,183,447   |    |             |  |  |
| Benefit payments                                               |      | (5,855,338) |    | (5,724,727) |  |  |
| Net change in total OPEB liability                             | _    | 6,624,864   |    | 6,364,872   |  |  |
| Total OPEB liability - Beginning                               |      | 146,389,649 |    | 140,024,777 |  |  |
| Total OPEB liability - Ending                                  | \$ _ | 153,014,513 | \$ | 146,389,649 |  |  |
| Plan fiduciary net position                                    | _    |             |    |             |  |  |
| Contributions - employer                                       | \$   | 8,855,338   | \$ | 11,724,727  |  |  |
| Net investment income                                          |      | 5,235,037   |    | 6,029,726   |  |  |
| Benefit payments                                               |      | (5,855,338) |    | (5,724,727) |  |  |
| Administrative expense                                         |      | (15,933)    |    | (13,794)    |  |  |
| Other                                                          |      | _           |    | 78,200      |  |  |
| Net change in plan fiduciary net position                      |      | 8,219,104   |    | 12,094,132  |  |  |
| Plan fiduciary net position - Beginning                        |      | 71,667,726  |    | 59,573,594  |  |  |
| Plan fiduciary net position - Ending                           | \$   | 79,886,830  | \$ | 71,667,726  |  |  |
| Net OPEB liability                                             | \$_  | 73,127,683  | \$ | 74,721,923  |  |  |
| Plan fiducairy net position as a percentage                    |      |             |    |             |  |  |
| of the total OPEB liability                                    |      | 52.21%      |    | 48.96%      |  |  |
| Covered-employee payroll                                       | \$   | 38,023,983  | \$ | 36,968,407  |  |  |
| Net OPEB Liability as a Percentage of Covered-employee Payroll |      | 192.32%     |    | 202.12%     |  |  |

<sup>\*</sup> This schedule is intended to present information for ten years for each respective fiscal year. Additional years will be built prospectively as information becomes available.

## Board of Water Supply City and County of Honolulu SCHEDULE OF CONTRIBUTIONS (OPEB) Last Ten Fiscal Years

| Fiscal<br>Year<br>Ended | Actuarially<br>Determined<br>Ontribution | Contributions in Relation to the Actuarially Determined Contribution |            | Contribution Deficiency (Excess) |             | Covered-<br>Employee<br>Payroll |            | Contributions as a %age of Covered- Employee Payroll |
|-------------------------|------------------------------------------|----------------------------------------------------------------------|------------|----------------------------------|-------------|---------------------------------|------------|------------------------------------------------------|
| June 30, 2019           | \$<br>7,945,000                          | \$                                                                   | 7,945,000  | \$                               |             | \$                              | 39,801,114 | 20.0%                                                |
| June 30, 2018           | \$<br>8,467,000                          | \$                                                                   | 8,855,338  | \$                               | (388,338)   | \$                              | 38,023,983 | 23.3%                                                |
| June 30, 2017           | \$<br>8,181,000                          | \$                                                                   | 11,724,727 | \$                               | (3,543,727) | \$                              | 36,968,407 | 31.7%                                                |
| June 30, 2016           | \$<br>8,826,000                          | \$                                                                   | 11,728,539 | \$                               | (2,902,539) | \$                              | 35,467,175 | 33.1%                                                |
| June 30, 2015           | \$<br>8,528,000                          | \$                                                                   | 10,750,399 | \$                               | (2,222,399) | \$                              | 34,329,374 | 31.3%                                                |
| June 30, 2014           | \$<br>8,977,000                          | \$                                                                   | 11,982,667 | \$                               | (3,005,667) | \$                              | 32,993,059 | 36.3%                                                |
| June 30, 2013           | \$<br>8,674,000                          | \$                                                                   | 12,732,550 | \$                               | (4,058,550) | \$                              | 30,236,942 | 42.1%                                                |
| June 30, 2012           | \$<br>10,750,000                         | \$                                                                   | 10,718,550 | \$                               | 31,450      | \$                              | 30,013,958 | 35.7%                                                |
| June 30, 2011           | \$<br>10,387,000                         | \$                                                                   | 12,339,213 | \$                               | (1,952,213) | \$                              | 30,605,429 | 40.3%                                                |
| June 30, 2010           | \$<br>7,837,000                          | \$                                                                   | 6,771,411  | \$                               | 1,065,589   | \$                              | 32,884,807 | 20.6%                                                |

See accompanying notes to required supplementary information.

# Board of Water Supply City and County of Honolulu NOTES TO REQUIRED SUPPLEMENTARY INFORMATION REQUIRED BY GASB STATEMENT NO. 75 Fiscal Years Ended June 30, 2019 and 2018

### **NOTE A - SIGNIFICANT METHODS AND ASSUMPTIONS**

The actuarially determined annual required contributions ("ARC") for the fiscal year ending June 30, 2019 was developed in the July 1, 2017 valuation. The following summarizes the significant methods and assumptions used to determine the actuarially determined contribution for the fiscal year ended June 30, 2019:

Actuarial valuation date July 1, 2017

Actuarial cost method Entry Age Normal

Amortization method Level percent, closed

Equivalent single amortization period 18.9 as of June 30, 2019

Asset valuation method Market
Inflation rate 2.50%
Investment rate of return 7.00%
Payroll growth 3.50%

Salary increases 3.50% to 7.00% including inflation

Demographic assumptions Based on the experience study covering the five year

period ending June 30, 2015 as conducted for the Hawaii Employees' Retirement System (ERS)

Mortality System-specific mortality tables utilizing scale BB to

project generational mortality improvement

Participation rates 98% healthcare participation assumption for retirees

that receive 100% of the Base Monthly Contribution. Healthcare participation rates of 25%, 65%, and 90% for retirees that receive 0%, 50%, or 75% of the base monthly contribution, respectively, 100% for life

insurance and 98% for Medicare Part B

Healthcare cost trend rates

PPO Initial rate of 6.6%, 6.6%, and 9.0%, declining to a

rate of 4.86% after 14 years

HMO Initial rate of 9.0%, declining to a rate of 4.86%

after 14 years

Part B Initial rate of 2.0% and 5%; declining to a rate of

4.7% after 14 yearse

Dental 3.50%e
Vision 2.50%e
Life Insurance 0.00%e

# Board of Water Supply City and County of Honolulu NOTES TO REQUIRED SUPPLEMENTARY INFORMATION REQUIRED BY GASB STATEMENT NO. 75 (Continued) Fiscal Years Ended June 30, 2019 and 2018

### NOTE A - SIGNIFICANT METHODS AND ASSUMPTIONS (Continued)

The following summarizes the significant methods and assumptions used to determine the actuarially determined contribution for the fiscal year ended June 30, 2018:

Actuarial valuation date July 1, 2015

Actuarial cost method Entry Age Normal

Amortization method Level percent, closed

Equivalent single amortization period 19.9 as of June 30, 2018

Asset valuation method Market
Inflation rate 3.00%
Investment rate of return 7.00%
Payroll growth 3.50%

Salary increases 4.00% to 19.00% including inflation

Demographic assumptions Based on the experience study covering the five year

period ending June 30, 2010 as conducted for the

Hawaii Employees' Retirement System

Mortality System-specific mortality tables

Participation rates 98% healthcare participation assumption for retirees

that receive 100% of the Base Monthly Contribution. Healthcare participation rates of 25%, 65%, and 90% for retirees that receive 0%, 50%, or 75% of the base monthly contribution, respectively. 100% for life

insurance and 98% for Medicare Part B

Healthcare cost trend rates

PPO Initial rate of 9%, declining to a rate of 5% after 8

8 years

HMO Initial rate of 7%, declining to a rate of 5% after 8

years

Part B Initial rate of 3% for the first two years, 5% thereafter

 Dental
 4.00%

 Vision
 3.00%

 Life Insurance
 0.00%

The actuarial valuation as of July 1, 2009, which was used to develop the ARC for fiscal year 2011 and 2012, included a reduction to the discount rate used from the prior valuation. The discount rate changed from a blended discount rate of 7% - 8% to 7%. This resulted in an overall increase to the actuarially determined OPEB liability and the ARC.

There were no other factors that significantly affected trends in the amounts reported in the schedule of changes in the net OPEB liability and related ratios or the schedule of contributions (OPEB).

SUPPLEMENTARY INFORMATION

### Board of Water Supply City and County of Honolulu SCHEDULE OF BONDS PAYABLE June 30, 2019

|                            | Interest<br>Rate | Bond<br>Dated | Maturing<br>Serially From | Call<br>Dates (1) | Outstanding<br>June 30, 2019 |  |
|----------------------------|------------------|---------------|---------------------------|-------------------|------------------------------|--|
|                            | Rate             | Dated         | Serially From             | Dates (1)         | June 30, 2019                |  |
| Water System Revenue Bonds |                  |               |                           |                   |                              |  |
| Series 2012A               |                  |               |                           |                   |                              |  |
| Insured Serial Bonds       | 5.000%           | 3/29/2012     | 7/1/2019                  | (2)0              | \$ 4,140,000                 |  |
| Insured Serial Bonds       | 5.000%           | 3/29/2012     | 7/1/2020                  | (2)0              | 2,320,0000                   |  |
| Insured Serial Bonds       | 5.000%           | 3/29/2012     | 7/1/2021                  | (2)0              | 6,865,0000                   |  |
| Insured Serial Bonds       | 5.000%           | 3/29/2012     | 7/1/2022                  | (2)0              | 8,535,0000                   |  |
| Insured Serial Bonds       | 5.000%           | 3/29/2012     | 7/1/2023                  | 7/1/2022          | 3,605,0000                   |  |
| Insured Serial Bonds       | 5.000%           | 3/29/2012     | 7/1/2024                  | 7/1/2022          | 3,790,0000                   |  |
| Insured Serial Bonds       | 5.000%           | 3/29/2012     | 7/1/2025                  | 7/1/2022          | 3,980,0000                   |  |
| Insured Serial Bonds       | 5.000%           | 3/29/2012     | 7/1/2026                  | 7/1/2022          | 4,185,0000                   |  |
| Insured Serial Bonds       | 4.500%           | 3/29/2012     | 7/1/2027                  | 7/1/2022          | 4,390,0000                   |  |
| Insured Serial Bonds       | 4.500%           | 3/29/2012     | 7/1/2028                  | 7/1/2022          | 4,595,0000                   |  |
| Insured Serial Bonds       | 4.500%           | 3/29/2012     | 7/1/2029                  | 7/1/2022          | 4,805,0000                   |  |
| Insured Serial Bonds       | 4.500%           | 3/29/2012     | 7/1/2030                  | 7/1/2022          | 5,025,0000                   |  |
| Insured Serial Bonds       | 5.000%           | 3/29/2012     | 7/1/2031                  | 7/1/2022          | 5,270,0000                   |  |
| Insured Serial Bonds       | 5.000%           | 3/29/2012     | 7/1/2032                  | 7/1/2022          | 5,540,0000                   |  |
| Insured Serial Bonds       | 5.000%           | 3/29/2012     | 7/1/2033                  | 7/1/2022          | 5,825,0000                   |  |
| Bifurcated Serial Bonds    | 2.000%           | 3/29/2012     | 7/1/2020                  | (2)0              | 2,000,0000                   |  |
|                            |                  |               |                           |                   | 74,870,0000                  |  |
|                            |                  |               |                           |                   |                              |  |
| Water System Revenue Bonds |                  |               |                           |                   |                              |  |
| Series 2014A (Non-AMT)     |                  |               |                           |                   |                              |  |
| Tax-Exempt Serial Bonds    | 5 0000V          | 40/0/0044     | 7/4/0000                  | (0)0              | F F0F 0000                   |  |
| Insured Serial Bonds       | 5.000%           | 12/9/2014     | 7/1/2023                  | (2)0              | 5,585,0000                   |  |
| Insured Serial Bonds       | 3.000%           | 12/9/2014     | 7/1/2024                  | (2)               | 410,0000                     |  |
| Insured Serial Bonds       | 5.000%           | 12/9/2014     | 7/1/2024                  | (2)0              | 5,455,0000                   |  |
| Insured Serial Bonds       | 5.000%           | 12/9/2014     | 7/1/2025                  | 7/1/2024          | 6,165,0000                   |  |
| Insured Serial Bonds       | 5.000%           | 12/9/2014     | 7/1/2026                  | 7/1/2024          | 6,480,0000                   |  |
| Insured Serial Bonds       | 5.000%           | 12/9/2014     | 7/1/2027                  | 7/1/2024          | 6,810,0000                   |  |
| Insured Serial Bonds       | 3.000%           | 12/9/2014     | 7/1/2028                  | (2)               | 930,000                      |  |
| Insured Serial Bonds       | 5.000%           | 12/9/2014     | 7/1/2028                  | 7/1/2024          | 6,215,000                    |  |
| Insured Serial Bonds       | 5.000%           | 12/9/2014     | 7/1/2029                  | 7/1/2024          | 7,505,000                    |  |
| Insured Serial Bonds       | 5.000%           | 12/9/2014     | 7/1/2030                  | 7/1/2024          | 7,930,000                    |  |
| Insured Serial Bonds       | 3.250%           | 12/9/2014     | 7/1/2031                  | (2)0              | 4,470,0000                   |  |
| Insured Serial Bonds       | 5.000%           | 12/9/2014     | 7/1/2031                  | 7/1/2024          | 3,825,0000                   |  |
| Insured Serial Bonds       | 4.000%           | 12/9/2014     | 7/1/2032                  | 7/1/2024          | 6,575,0000                   |  |
| Insured Serial Bonds       | 4.000%           | 12/9/2014     | 7/1/2033                  | 7/1/2024          | 6,840,0000                   |  |
| Insured Serial Bonds       | 4,000%           | 12/9/2014     | 7/1/2034                  | 7/1/2024          | 8,500,0000                   |  |
| Insured Serial Bonds       | 4.000%           | 12/9/2014     | 7/1/2035                  | 7/1/2024          | 8,755,0000                   |  |
| Insured Serial Bonds       | 4.000%           | 12/9/2014     | 7/1/2036                  | 7/1/2024          | 9,205,0000                   |  |
|                            |                  |               |                           |                   | \$ 101,655,000               |  |

<sup>(1)0</sup> Call dates indicated are optional.0

<sup>(2)</sup> Noncallable.0

## Board of Water Supply City and County of Honolulu SCHEDULE OF BONDS PAYABLE (Continued) June 30, 2019

|                            | Interest<br>Rate | Bond<br>Dated | Maturing<br>Serially From | Call<br>Dates (1) | Outstanding<br>June 30, 2019 |  |
|----------------------------|------------------|---------------|---------------------------|-------------------|------------------------------|--|
| Water System Revenue Bonds |                  |               |                           |                   |                              |  |
| Series 2014B (AMT)         |                  |               |                           |                   |                              |  |
| Taxable Serial Bonds       |                  |               |                           |                   |                              |  |
| Insured Serial Bonds       | 2.144%           | 12/9/2014     | 7/1/2019                  | (2)               | \$<br>4,680,000              |  |
| Insured Serial Bonds       | 2.389%           | 12/9/2014     | 7/1/2020                  | (2)               | 4,790,000                    |  |
| Insured Serial Bonds       | 2.619%           | 12/9/2014     | 7/1/2021                  | (2)               | 2,585,000                    |  |
| Insured Serial Bonds       | 2.755%           | 12/9/2014     | 7/1/2022                  | (2)               | 1,540,000                    |  |
| Insured Serial Bonds       | 2.915%           | 12/9/2014     | 7/1/2023                  | (2)               | 1,585,000                    |  |
| Insured Serial Bonds       | 3.135%           | 12/9/2014     | 7/1/2024                  | (2)               | 1,625,000                    |  |
| Insured Serial Bonds       | 3.285%           | 12/9/2014     | 7/1/2025                  | (2)               | 1,670,000                    |  |
| Insured Serial Bonds       | 3.385%           | 12/9/2014     | 7/1/2026                  | (2)               | 1,730,000                    |  |
| Insured Serial Bonds       | 3.485%           | 12/9/2014     | 7/1/2027                  | (2)               | 1,785,000                    |  |
| Insured Serial Bonds       | 3.585%           | 12/9/2014     | 7/1/2028                  | (2)               | 1,845,000                    |  |
| Insured Serial Bonds       | 3.685%           | 12/9/2014     | 7/1/2029                  | (2)               | 1,910,000                    |  |
| Insured Serial Bonds       | 3.760%           | 12/9/2014     | 7/1/2030                  | (2)               | 1,975,000                    |  |
| Insured Serial Bonds       | 3.860%           | 12/9/2014     | 7/1/2031                  | (2)               | 2,045,000                    |  |
|                            |                  |               |                           |                   | 29,765,000                   |  |
|                            |                  |               |                           |                   | \$<br>206,290,000            |  |

<sup>(1)</sup> Call dates indicated are optional.

<sup>(2)</sup> Noncallable.

## Board of Water Supply City and County of Honolulu SCHEDULE OF NET REVENUE REQUIREMENT Fiscal Years Ended June 30, 2019 and 2018

|                                      |    | 2019               |    | 2018             |
|--------------------------------------|----|--------------------|----|------------------|
| REVENUES                             |    |                    |    |                  |
| Water sales                          | \$ | 226,347,969        | \$ | 229,526,599      |
| Interest                             |    | 7,549,495          |    | 6,097,077        |
| Other                                |    | 2,697,545          |    | <u>3,303,197</u> |
| Total revenues                       |    | 236,595,009        |    | _238,926,873     |
| DEDUCTIONS                           |    |                    |    |                  |
| Operating expenses                   |    | 203,999,113        |    | 197,745,380      |
| Less: depreciation expense           |    | (47,266,015)       |    | (47,337,006)     |
| Less: allocated depreciation charges |    | <u>(1,515,219)</u> |    | (1,587,002)      |
| Total deductions                     |    | 155,217,879        |    | 148,821,372      |
| Net revenues                         | \$ | 81,377,130         | \$ | 90,105,501       |
| NET REVENUE REQUIREMENT              |    |                    |    |                  |
| Greater of:                          |    |                    |    |                  |
| Aggregate debt service               | \$ | 17,875,798         | \$ | 17,844,248       |
| Required deposits                    |    |                    |    |                  |
|                                      | \$ | 17,875,798         | \$ | 17,844,248       |
| 2) Aggregate debt service            | \$ | 17,875,798         | \$ | 17,844,248       |
| Minimum required debt service ratio  | x  | 1.20               | x  | 1.20             |
| Net revenue requirement              | \$ | 21,450,958         | \$ | 21,413,098       |
| Net revenue to aggregate debt        |    |                    |    |                  |
| service ratio                        |    | 4.55               |    | 5.05             |

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

SINGLE AUDIT REPORTS

Fiscal Year Ended June 30, 2019

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

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### PART I

REPORT ON INTERNAL CONTROL OVER FINANCIAL REPORTING AND ON COMPLIANCE AND OTHER MATTERS



# INDEPENDENT AUDITOR'S REPORT ON INTERNAL CONTROL OVER FINANCIAL REPORTING AND ON COMPLIANCE AND OTHER MATTERS BASED ON AN AUDIT OF FINANCIAL STATEMENTS PERFORMED IN ACCORDANCE WITH GOVERNMENT AUDITING STANDARDS

To the Board of Directors
Board of Water Supply
City and County of Honolulu

We have audited, in accordance with the auditing standards generally accepted in the United States of America and the standards applicable to financial audits contained in *Government Auditing Standards* issued by the Comptroller General of the United States, the financial statements of the Board of Water Supply (the "BWS"), a component unit of the City and County of Honolulu, as of and for the fiscal year ended June 30, 2019, and the related notes to the financial statements, and have issued our report thereon dated October 31, 2019.

### Internal Control over Financial Reporting

In planning and performing our audit of the financial statements, we considered BWS's internal control over financial reporting (internal control) to determine the audit procedures that are appropriate in the circumstances for the purpose of expressing our opinion on the financial statements, but not for the purpose of expressing an opinion on the effectiveness of BWS's internal control. Accordingly, we do not express an opinion on the effectiveness of BWS's internal control.

A deficiency in internal control exists when the design or operation of a control does not allow management or employees, in the normal course of performing their assigned functions, to prevent, or detect and correct, misstatements on a timely basis. A material weakness is a deficiency, or a combination of deficiencies, in internal control, such that there is a reasonable possibility that a material misstatement of the entity's financial statements will not be prevented, or detected and corrected on a timely basis. A significant deficiency is a deficiency, or a combination of deficiencies, in internal control that is less severe than a material weakness, yet important enough to merit attention by those charged with governance.

Our consideration of internal control was for the limited purpose described in the first paragraph of this section and was not designed to identify all deficiencies in internal control that might be material weaknesses or significant deficiencies. Given these limitations, during our audit we did not identify any deficiencies in internal control that we consider to be material weaknesses. However, material weaknesses may exist that have not been identified.

### **Compliance and Other Matters**

As part of obtaining reasonable assurance about whether BWS's financial statements are free from material misstatement, we performed tests of its compliance with certain provisions of laws, regulations, contracts, and grant agreements, noncompliance with which could have a direct and material effect on the determination of financial statement amounts. However, providing an opinion on compliance with those provisions was not an objective of our audit, and accordingly, we do not express such an opinion. The results of our tests disclosed no instances of noncompliance or other matters that are required to be reported under *Government Auditing Standards*.

### **Purpose of this Report**

The purpose of this report is solely to describe the scope of our testing of internal control and compliance and the results of that testing, and not to provide an opinion on the effectiveness of the entity's internal control or on compliance. This report is an integral part of an audit performed in accordance with *Government Auditing Standards* in considering the entity's internal control and compliance. Accordingly, this communication is not suitable for any other purpose.

N+K CPAS, INC.

Honolulu, Hawai'i October 31, 2019

### PART II

REPORT ON COMPLIANCE FOR EACH MAJOR FEDERAL PROGRAM; REPORT ON INTERNAL CONTROL OVER COMPLIANCE; AND REPORT ON SCHEDULE OF EXPENDITURES OF FEDERAL AWARDS REQUIRED BY THE UNIFORM GUIDANCE



# INDEPENDENT AUDITOR'S REPORT ON COMPLIANCE FOR EACH MAJOR FEDERAL PROGRAM; REPORT ON INTERNAL CONTROL OVER COMPLIANCE; AND REPORT ON SCHEDULE OF EXPENDITURES OF FEDERAL AWARDS REQUIRED BY THE UNIFORM GUIDANCE

To the Board of Directors
Board of Water Supply
City and County of Honolulu

### Report on Compliance for Each Major Federal Program

We have audited Board of Water Supply's (the "BWS") compliance with the types of compliance requirements described in the *OMB Compliance Supplement* that could have a direct and material effect on each of BWS's major federal programs for the fiscal year ended June 30, 2019. BWS's major federal programs are identified in the summary of auditor's results section of the accompanying schedule of findings and questioned costs.

### Management's Responsibility

Management is responsible for compliance with federal statutes, regulations, and the terms and conditions of its federal awards applicable to its federal programs.

#### Auditor's Responsibility

Our responsibility is to express an opinion on compliance for each of BWS's major federal programs based on our audit of the types of compliance requirements referred to above. We conducted our audit of compliance in accordance with auditing standards generally accepted in the United States of America; the standards applicable to financial audits contained in *Government Auditing Standards*, issued by the Comptroller General of the United States; and the audit requirements of Title 2 U.S. Code of Federal Regulations Part 200, Uniform Administrative Requirements, Cost Principles, and Audit Requirements for Federal Awards (Uniform Guidance). Those standards and the Uniform Guidance require that we plan and perform the audit to obtain reasonable assurance about whether noncompliance with the types of compliance requirements

referred to above that could have a direct and material effect on a major federal program occurred. An audit includes examining, on a test basis, evidence about BWS's compliance with those requirements and performing such other procedures as we considered necessary in the circumstances.

We believe that our audit provides a reasonable basis for our opinion on compliance for each major federal program. However, our audit does not provide a legal determination of BWS's compliance.

### **Opinion on Each Major Federal Program**

In our opinion, BWS complied, in all material respects, with the types of compliance requirements referred to above that could have a direct and material effect on each of its major federal programs for the fiscal year ended June 30, 2019.

### Report on Internal Control over Compliance

Management of BWS is responsible for establishing and maintaining effective internal control over compliance with the types of compliance requirements referred to above. In planning and performing our audit of compliance, we considered BWS's internal control over compliance with the types of requirements that could have a direct and material effect on each major federal program to determine the auditing procedures that are appropriate in the circumstances for the purpose of expressing an opinion on compliance for each major federal program and to test and report on internal control over compliance in accordance with the Uniform Guidance, but not for the purpose of expressing an opinion on the effectiveness of internal control over compliance. Accordingly, we do not express an opinion on the effectiveness of BWS's internal control over compliance.

A deficiency in internal control over compliance exists when the design or operation of a control over compliance does not allow management or employees, in the normal course of performing their assigned functions, to prevent, or detect and correct, noncompliance with a type of compliance requirement of a federal program on a timely basis. A material weakness in internal control over compliance is a deficiency, or a combination of deficiencies, in internal control over compliance, such that there is a reasonable possibility that material noncompliance with a type of compliance requirement of a federal program will not be prevented, or detected and corrected, on a timely basis. A significant deficiency in internal control over compliance is a deficiency, or a combination of deficiencies, in internal control over compliance with a type of compliance requirement of a federal program that is less severe than a material weakness in internal control over compliance, yet important enough to merit attention by those charged with governance.

N&K CPAs, Inc. ACCOUNTANTS | CONSULTANTS

Our consideration of internal control over compliance was for the limited purpose described in the first paragraph of this section and was not designed to identify all deficiencies in internal control over compliance that might be material weaknesses or significant deficiencies. We did not identify any deficiencies in internal control over compliance that we consider to be material weaknesses. However, material weaknesses may exist that have not been identified.

The purpose of this report on internal control over compliance is solely to describe the scope of our testing of internal control over compliance and the results of that testing based on the requirements of the Uniform Guidance. Accordingly, this report is not suitable for any other purpose.

### Report on Schedule of Expenditures of Federal Awards Required by the Uniform Guidance

We have audited the financial statements of BWS as of and for the fiscal year ended June 30, 2019, and have issued our report thereon dated October 31, 2019, which contained an unmodified opinion on those financial statements. Our audit was conducted for the purpose of forming an opinion on the financial statements as a whole. The accompanying schedule of expenditures of federal awards is presented for purposes of additional analysis as required by the Uniform Guidance and is not a required part of the financial statements. Such information is the responsibility of management and was derived from and relates directly to the underlying accounting and other records used to prepare the financial statements. The information has been subjected to the auditing procedures applied in the audit of the financial statements and certain additional procedures, including comparing and reconciling such information directly to the underlying accounting and other records used to prepare the financial statements or to the financial statements themselves, and other additional procedures in accordance with auditing standards generally accepted in the United States of America. In our opinion, the schedule of expenditures of federal awards is fairly stated in all material respects in relation to the financial statements as a whole.

N+K CPAS, INC.

Honolulu, Hawai'i October 31, 2019

# Board of Water Supply City and County of Honolulu SCHEDULE OF EXPENDITURES OF FEDERAL AWARDS Fiscal Year Ended June 30, 2019

| Federal Grantor/Pass-Through Grantor/Program or Cluster Title     | Federal<br>CFDA<br>Number | Pass-Through Entity Identifying Number | E  | Total<br>Federal<br>xpenditures |
|-------------------------------------------------------------------|---------------------------|----------------------------------------|----|---------------------------------|
| ENVIRONMENTAL PROTECTION AGENCY                                   |                           |                                        |    |                                 |
| Pass-through Department of Health, State of Hawai'i               |                           |                                        |    |                                 |
| Capitalization Grants for Drinking Water State<br>Revolving Funds | 66.468                    | ASO Log 17-118<br>ASO Log 19-141       | \$ | 8,454,318<br>293,389            |
|                                                                   |                           |                                        |    | 8,747,707                       |
| TOTAL EXPENDITURES OF FEDERAL AWARDS                              |                           |                                        | \$ | 8,747,707                       |

# Board of Water Supply City and County of Honolulu NOTES TO SCHEDULE OF EXPENDITURES OF FEDERAL AWARDS Fiscal Year Ended June 30, 2019

#### **NOTE A - BASIS OF PRESENTATION**

The accompanying schedule of expenditures of federal awards (the "Schedule") includes the federal award activity of BWS under programs of the federal government for the fiscal year ended June 30, 2019. The information in this Schedule is presented in accordance with the requirements of Title 2 U.S. Code of Federal Regulations Part 200, Uniform Administrative Requirements, Cost Principles, and Audit Requirements for Federal Awards (Uniform Guidance). Because the Schedule presents only a selected portion of the operations of BWS, it is not intended to and does not present the financial position, changes in net position, or cash flows of BWS.

#### NOTE B - SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES

Expenditures reported on the Schedule are reported on a modified accrual basis of accounting under which expenditures are reported when incurred and when reimbursed by federal loan proceeds received from the pass-through entity during the audit period. Such expenditures are recognized following the cost principles contained in the Uniform Guidance, wherein certain types of expenditures are not allowable or are limited as to reimbursement.

### **NOTE C - INDIRECT COST RATE**

BWS has elected not to use the 10% de minimis indirect cost rate allowed under the Uniform Guidance.

# PART III SCHEDULE OF FINDINGS AND QUESTIONED COSTS

# Board of Water Supply City and County of Honolulu SCHEDULE OF FINDINGS AND QUESTIONED COSTS Fiscal Year Ended June 30, 2019

### **SECTION I - SUMMARY OF AUDITOR'S RESULTS**

No matters were reported.

| <u>Financial Statements</u>                                                                                             |                                                                |
|-------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|
| Type of report the auditor issued on whether the financial statements audited were prepared in accordance with GAAP:    | Unmodified                                                     |
| Internal control over financial reporting: Material weakness(es) identified? Significant deficiency(ies) identified?    | yes✓ no<br>yes✓ none reported                                  |
| Noncompliance material to financial statements noted?                                                                   | yes <u>✓</u> no                                                |
| Federal Awards                                                                                                          |                                                                |
| Internal control over major federal programs: Material weakness(es) identified? Significant deficiency(ies) identified? | yes √ no yes √ none reported                                   |
| Type of auditor's report issued on compliance for major federal programs:                                               | Unmodified                                                     |
| Any audit findings disclosed that are required to be reported in accordance with 2 CFR 200.516(a)?                      | yes <u>√</u> no                                                |
| Identification of major federal programs:                                                                               |                                                                |
| CFDA Number                                                                                                             | Name of Federal Program or Cluster                             |
| 66.468                                                                                                                  | Capitalization Grants for Drinking Water State Revolving Funds |
| Dollar threshold used to distinguish between type A and type B programs:                                                | \$750,000                                                      |
| Auditee qualified as a low-risk auditee?                                                                                | <u>√</u> yes no                                                |
| SECTION II - FINANCIAL STATEMENT FINDINGS                                                                               |                                                                |
| No matters were reported.                                                                                               |                                                                |
| SECTION III - FEDERAL AWARD FINDINGS AND QUE                                                                            | STIONED COSTS                                                  |

# PART IV SUMMARY SCHEDULE OF PRIOR AUDIT FINDINGS

# Board of Water Supply City and County of Honolulu Status Report Fiscal Year Ended June 30, 2019

No prior audit findings which apply under the current criteria of the Uniform Guidance were noted.

### ITEM FOR INFORMATION NO. 2

"February 24, 2020

FINANCIAL Chair and Members
UPDATE FOR Board of Water Supply
THE QUARTER City and County of Honolulu
ENDED Honolulu, Hawaii 96843

DECEMBER 31, 2019

Chair and Members:

Subject: Financial Update for the Quarter ended December 31, 2019

The following Board of Water Supply's financial reports and graphs are attached:

- •e Budget vs Actual Revenue and Expense Totalse
- •e Statement of Revenues, Expenses and Change in Net Assetse
- •e Balance Sheete
- Budget vs Actual Appropriation Budget Total BWSe Summarye
- •e Graph Representing Operating Expenditures by Categorye
- Graphs of Total Budgeted Operating Expenditures and Totale Budgeted Operating Revenuese

/s/ Respectfully submitted,

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

Attachments"

The foregoing was for information only.

DISCUSSION: Joseph Cooper, Waterworks Controller, Finance Division, gave the report.

Vice Chair Kapua Sproat asked if the Mililani and Ala Wai are part of the recycling plant project?

Mr. Barry Usagawa responded those are part of the Kapolei pipeline improvements and not apart of the Capital Improvement Projects (CIP). BWS is currently working on the recycled water treatment plant expansion which moved the Mililani and Ala Wai projects into next year.

Chair Bryan Andaya appreciated the BWS how much detail went into the budget variances. It is much easier to comprehend.

Member Ray Soon expressed concern about the expenditures are twenty percent down and the revenues are the same. Is there a way for BWS to forecast the budget to be more accurate.

Manager Lau responded that as we are developing the FY21 budget we are trying to realistically fund programs by quarter. So if a vacant position will not need a full year salary, we could budget it for half the year or a quarter of the year in the fourth quarter. There is a hefty civil service recruiting process we have to go through. We would like to push more large project expenditures to the 1<sup>st</sup> and 2<sup>nd</sup> quarter, but we are not there yet.

Mr. Joseph Cooper mentioned that our Executive Support Office (ESO) works on our budget and we are trying to make incremental improvements it takes some time to see the results.

### Budget vs. Actual Revenue and Expense Totals As of December 31, 2019

|                             | YTD Actuals  | YTD Budget    | Favorable/ (Unfavorable)<br>Variance |
|-----------------------------|--------------|---------------|--------------------------------------|
| Revenues                    | 125,504,000  | 123,380,000   | 2,124,000                            |
| Operating<br>Expenses       | (80,953,000) | (100,454,000) | 19,501,000                           |
| Net Revenues (expenditures) | 44,551,000   | 22,926,000    | 21,625,000                           |

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# Board Of Water Supply Statement of Revenues, Expenses And Change In Net Assets As of December 31, 2019

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| Current Month  | %       | Last Year      | %       | Description                    | Year to Date   | %       | Last Year to Date | %       | %      |
|----------------|---------|----------------|---------|--------------------------------|----------------|---------|-------------------|---------|--------|
| Actual         | Revenue | Actual         | Revenue |                                | Actual         | Revenue | Actual            | Revenue | Change |
|                |         |                |         | REVENUE                        |                |         |                   |         |        |
| 19,401,361.42  | 100.00  | 18,163,305.17  | 100.00  | OPERATING REVENUE              | 122,330,913.10 | 100.00  | 120,128,110.48    | 100.00  | 1.83   |
| 19,401,361.42  | 100.00  | 18,163,305.17  | 100.00  | REVENUE                        | 122,330,913.10 | 100.00  | 120,128,110.48    | 100.00  | 1.83   |
|                |         |                |         | OPERATING EXPENSES             |                |         |                   |         |        |
| 3,244,833.46-  | 16.72   | 2,980,988.24-  | 16.41   | LABOR COSTS                    | 18,598,346.28- | 15.20   | 18,115,261.71-    | 15.08   | 2.67   |
| 2,015,647.46-  | 10.39   | 2,785,549.61-  | 15.34   | SERVICES                       | 10,144,985.50- | 8.29    | 11,299,939.50-    | 9.41    | 10.22  |
| 543,792.27-    | 2.80    | 25,883.69      | .14     | SUPPLIES                       | 3,286,869.82-  | 2.69    | 2,089,143.68-     | 1.74    | 57.33  |
| 11,156.48-     | .06     | 18,007.40-     | .10     | EDUCATION & TRAINING           | 37,239.45-     | .03     | 65,973.16-        | .05     | 43.55  |
| 1,509,369.40-  | 7.78    | 1,573,882.02-  | 8.67    | UTILITIES                      | 10,615,669.36- | 8.68    | 11,407,376.74-    | 9.50    | 6.94   |
| 116,232.71-    | .60     | 87,429.00-     | .48     | REPAIR AND MAINTENANCE         | 847,287.72-    | .69     | 804,502.15-       | .67     | 5.32   |
| 1,562,902.84-  | 8.06    | 1,634,484.73-  | 9.00    | MISC                           | 10,424,957.47- | 8.52    | 9,987,894.71-     | 8.31    | 4.38   |
| 1,951,745.69-  | 10.06   | 1,811,305.14-  | 9.97    | RETIREMENT SYSTEM CONTRIBUTIO  | 11,071,770.02- | 9.05    | 10,266,203.57-    | 8.55    | 7.85   |
| 78,111.68      | .40     | 44,526.71      | .25     | MISC EMPLOYEES' BENEFITS       | 256,510.49-    | .21     | 1,561,183.03-     | 1.30    | 83.57  |
| 10,877,568.63- | 56.07   | 10,821,235.74- | 59.58   | OPERATING EXPENSES             | 65,283,636.11- | 53.37   | 65,597,478.25-    | 54.61   | .48    |
| 1,037,222.35-  | 5.35    | 1,082,757.86   | 5,96    | NON OPERATING REVENUE AND EXPE | 201,275.64     | .16     | 1,530,152.10-     | 1.27    | 113.15 |
| 973,244.70     | 5.02    | 804,376.53     | 4.43    | CONTRIBUTION IN AID            | 6,753,376.09   | 5.52    | 4,744,833.70      | 3.95    | 42.33  |
| 3,847,871.84-  | 19.83   | 3,969,601.98-  | 21.86   | OTHER EXPENSES                 | 24,438,358.92- | 19.98   | 24,230,248.51-    | 20.17   | .86    |
| 4,611,943.30   | 23.77   | 5,259,601.84   | 28.96   | Change In Net Assets           | 39,563,569.80  | 32.34   | 33,515,065.32     | 27.90   | 18.05  |

### Board Of Water Supply Balance Sheet As of December 31, 2019

|                                  | ********         | Amounts          | ******* ***********                     | ******        | Change3 ************************************ |
|----------------------------------|------------------|------------------|-----------------------------------------|---------------|----------------------------------------------|
| Description                      | Current          | Last Month End   | Last Year End                           | This Month    | This Year                                    |
| ASSETS                           |                  |                  |                                         |               |                                              |
| CURRENT ASSETS                   | 66,334,662.87    | 66,712,954.19    | 59,710,733.12                           | -378,291.32   | 3 6,623,929.75                               |
| RESTRICTED ASSETS                | 8,102,421.79     | 6,205,375.73     | 24,774,795.44                           | 1,897,046.06  | 3 -16,672,373.653                            |
| INVESTMENTS                      | 437,360,265.65   | 438,696,181.44   | 422,793,913.87                          | -1,335,915.79 | 3 14,566,351.783                             |
| OTHER ASSETS                     | 13,676,523.13    | 13,390,493.75    | 15,363,958.46                           | 286,029.38    | 3 -1,687,435.333                             |
| PROPERTY / PLANT                 | 1,211,105,684.03 | 1,204,436,059.59 | 1,198,624,848.95                        | 6,669,624.44  | 3 12,480,835.083                             |
| DEFERRED OUTFLOWS OF RESOURCES   | 33,182,324.00    | 33,182,324.00    | 33,182,324.00                           | 0.00          | 3 0.00                                       |
| TOTAL ASSETS                     | 1,769,761,881.47 | 1,762,623,388.70 | 1,754,450,573.84                        | 7,138,492.77  | 3 15,311,307.63                              |
| LIABILITIES                      |                  |                  |                                         |               |                                              |
| CURRENT LIABILITIES              | 22.326.791.91    | 18.739.195.44    | 42.914.081.33                           | 3,587,596.47  | -20,587,289.423                              |
| OTHER LIABILITIES                | 34,658,339.55    | 34.751.354.07    | • • • • • • • • • • • • • • • • • • • • | -93,014,52    | • •                                          |
| BONDS PAYABLE, NONCURRENT        | 274,407,717.24   | 275,375,749,72   | ••••                                    | -968.032.48   | •                                            |
| NET PENSION LIABILITY            | 120,348.341.00   | 120.348.341.00   | , ,                                     | 0.00          |                                              |
| NET OPEB LIABILITY               | 76.085.333.00    | 76.085.333.00    | . , . ,                                 | 0.00          | = = =                                        |
| DEFERRED INFLOWS OF RESOURCES    | 8,859,472.00     | 8,859,472.00     | 11                                      | 0.00          |                                              |
| LIABILITIES                      | 536,685,994.70   | 534,159,445.23   |                                         | 2,526,549.47  |                                              |
| NET ASSETS                       |                  |                  |                                         |               |                                              |
| RETAINED EARNINGS                | 333,331,054.71   | 327,620,595.90   | 308,082,096.73                          | 5,710,458.81  | 25,248,957.98                                |
| FUND BALANCE                     | 594,633,831.66   | 594,633,831.66   | 594,633,831.66                          | 0.00          | 0.00                                         |
| RESERVE FOR ENCUMBRANCES         | 265,547,430.60   | 271,257,889.41   | 290,796,388.58                          | -5,710,458.81 | 3 -25,248,957.983                            |
| CURRENT YEAR CHANGES TO FU       | 39,563,569.80    | 34,951,626.50    |                                         | 4,611,943.30  | 3 39,563,569.803                             |
| NET ASSETS                       | 1,233,075,886.77 | 1,228,463,943.47 | 1,193,512,316.97                        | 4,611,943.30  | 39,563,569.803                               |
| TOTAL LIABILITIES AND NET ASSETS | 1,769,761,881.47 | 1,762,623,388.70 | 1,754,450,573.84                        | 7,138,492.77  | 3 15,311,307.633                             |

Board Of Water Supply

Budget vs Actual Appropriation Budget - Total BWS Summary

1/8/2020 Page - 9:14:52

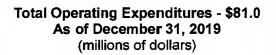
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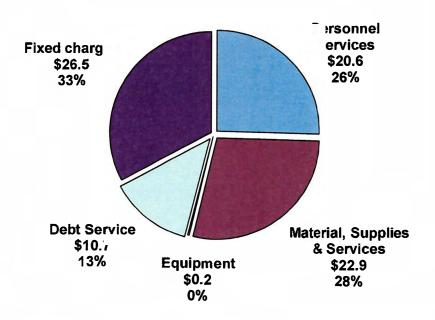
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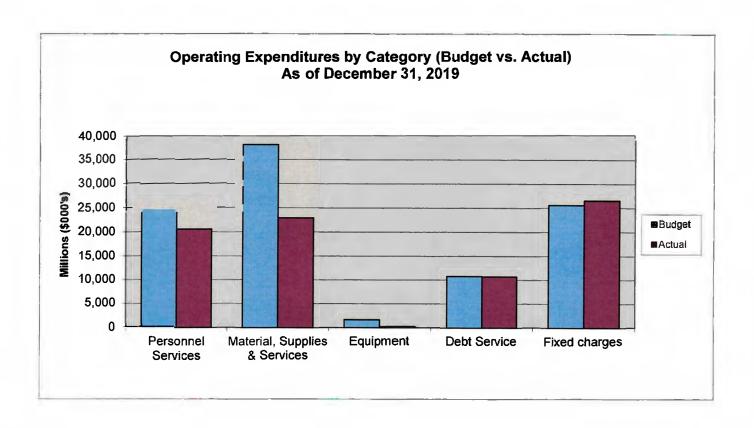
CIFIS 20820-3021 AS OF 12/31/2019

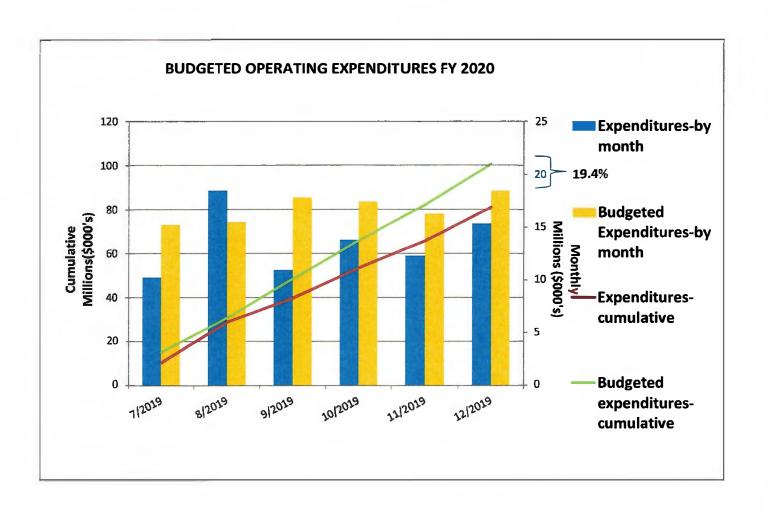
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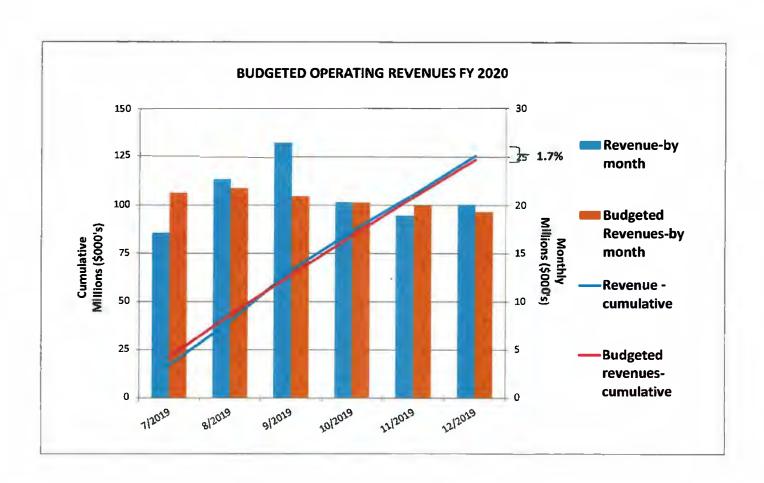
|                | YTD-TO        | -DATE            |              |                                |                     | FOR TH         | IE FISCAL YI     | EAR              |                 |
|----------------|---------------|------------------|--------------|--------------------------------|---------------------|----------------|------------------|------------------|-----------------|
| YTD<br>Actuals | YTD<br>Budget | Avail/<br>(Over) | 0/0          | Object<br>Description          | Revenues/<br>Expend | Open<br>Encumb | Annual<br>Budget | Avail/<br>(Over) | 0 <sub>/D</sub> |
| 125,504        | 123,380       | (2,124)          | <u>1.72-</u> | REVENUE                        | 125,504             |                | 243,755          | 118,251          | 48.51           |
|                |               |                  |              | OPERATING EXPENSES:            |                     |                |                  |                  |                 |
| 20,576         | 24,421        | 3,845            | 15.74        | Personnel Services             | 20,576              |                | 49,197           | 28,621           | 58.18           |
|                |               |                  |              | MATERIALS AND SUPPLIES         |                     |                |                  |                  |                 |
| 10,099         | 20,370        | 10,271           | 50.42        | Services                       | 6,738               | 3,361          | 41,431           | 31,332           | 75.62           |
| 7,454          | 8,147         | 693              | 8.51         | Supplies                       | 5,584               | 1,870          | 14,953           | 7,499            | 50.15           |
| 147            | 399           | 252              | 63.16        | Education & Training Utilities | 124                 | 23             | 883              | 736              | 83.35           |
| 1,0078         | 2,780         | 1,773            | 63.78        | Repairs & Maint                | 670                 | 337            | 5,416            | 4,409            | 81.41           |
| 4,235          | 6,378         | 2,143            | 33.60        | Misc                           | 3,269               | 966            | 11,705           | 7,470            | 63.82           |
| 227            | 1,599         | 1,372            | 85.80        | Equipment                      | 62                  | 165            | 7,261            | 7,034            | 96.87           |
| 10,697         | 10,766        | 69               | 64           | Debt Service                   | 10,697              |                | 22,382           | 11,685           | 52,21           |
|                |               |                  |              | FIXED CHARGES:                 |                     |                |                  |                  |                 |
| 12,593         | 12,155        | (438)            | 3.60-        | Utilities                      | 12,593              |                | 24,310           | 11,717           | 48.20           |
| 1,650          | 1,650         |                  |              | Case Fees                      | 1.650               |                | 3,300            | 1,650            | 50.00           |
| 5,833          | 5,950         | 117              | 1.97         | Retirement System Contribution | 5,833               |                | 11,900           | 6,067            | 50.98           |
| 6.435          | 5,839         | (596)            | 10.21-       | Misc Employees' Benefits       | 6,430               | 5              | 11,654           | 5,219            | 44.78           |
|                |               |                  |              |                                |                     |                |                  |                  |                 |
| 80,953         | 100,454       | 19,501           | 19.41        | TOTAL OPERATING EXPENDITURES   | 74,226              | 6,727          | 204,392          | 123,439          | 60.39           |
| 44,551         | 22,926        | (21,625)         |              | NET REVENUES (EXPENDITURES)    | 51,278              | (6,727)        | 39,363           | (5,188)          |                 |







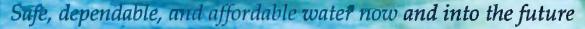






# **Financial Performance**

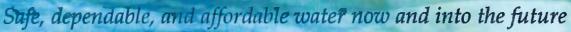
**July 2019 – December 2019** 





## Budget to Actual July 2019 – December 2019

- Actual Revenue \$125.5 million vs.
   Budgeted Revenue \$123.4 million
- Operating costs are \$81 million vs. Budgeted costs of \$100.5 million
- Actual Net Revenue \$44.6 million vs. Budgeted Net Revenue \$22.9 million





### **Cost Drivers**

### Year to Date December 2019

|                        | Actual     | Budget     |
|------------------------|------------|------------|
|                        | (millions) | (millions) |
| Personnel              | \$20.6     | \$24.4     |
| Material/Serv/Supplies | \$22.9     | \$38.1     |
| Equipment              | \$ 0.2     | \$ 1.6     |
| Debt Service           | \$10.7     | \$10.8     |
| Utilities              | \$12.6     | \$12.2     |

Safe, dependable, and affordable water now and into the future

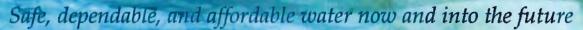


# **Budget vs Actual**

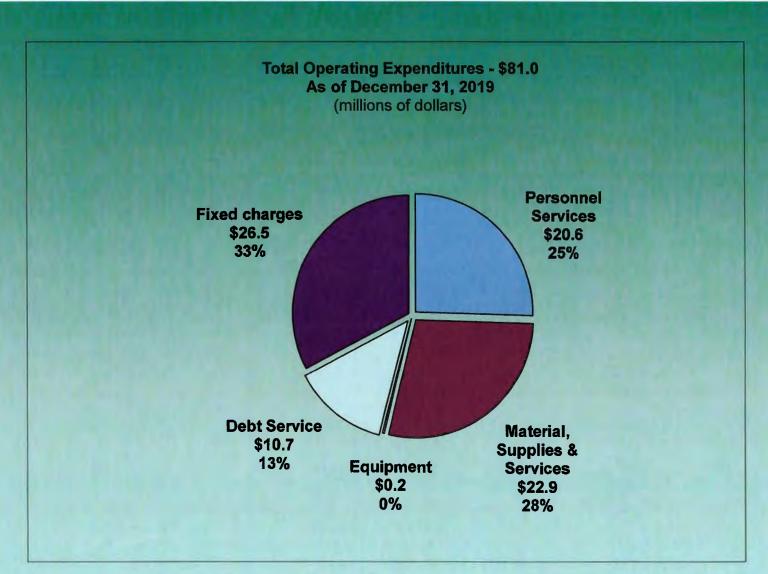
Operating costs are \$81M vs. Budgeted costs of \$100.5M
Of the \$19.5M variance:

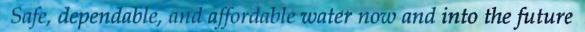
- Field Operations \$6.2M (under):
  - Timing of contract award for Dam Vegetation
     Control & Facility Pavement Projects
  - Timing of expenditures for Storeroom Supplies
- Water Resources \$4.1M (under):
  - Deferral of two Recycled Water Plant Projects to Fiscal Year 21
  - Timing of contract executions for AWIA and various MOU/MOA
  - Information Technology \$3M (under):
    - Timing of contract executions for various support and maintenance agreements
    - IT equipment purchased as requested by Divisions

- Water Quality \$2.6M (under):
  - Timing of contract executions relating to legal & regulatory matters
- Water System Operations \$2.1M (under):
  - Timing of contract awards for Automotive equipment
  - Repair & Maintenance of Equipment and Equipment purchases on an as needed basis
- **Executive Support Office \$1.5M (under)** 
  - Timing of contract award of Security Guard services
  - Legal Services procured as needed
  - Claims paid as settled



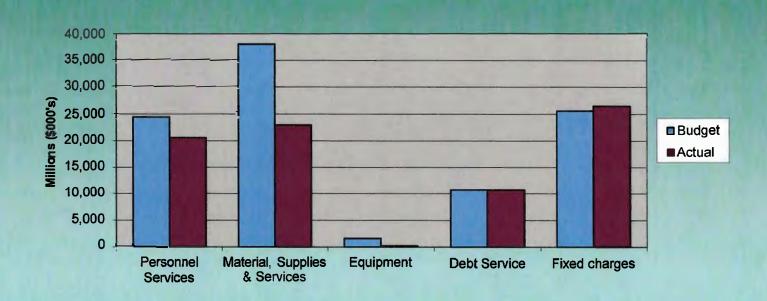








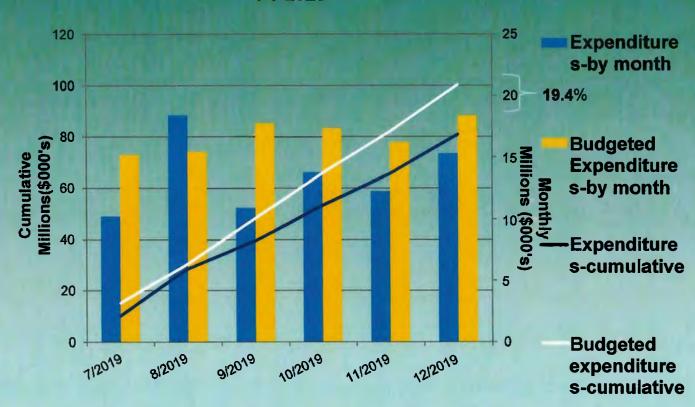
## Operating Expenditures by Category (Budget vs. Actual) As of December 31, 2019







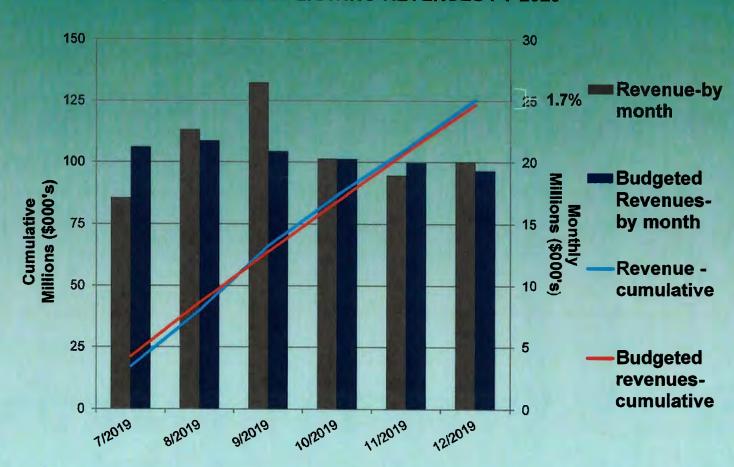
### BUDGETED OPERATING EXPENDITURES FY 2020



Sufe, dependable, and affordable water now and into the future



### **BUDGETED OPERATING REVENUES FY 2020**





Questions or Comments

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

Chair and Members:

Subject: Legislative Bills Update

This report addresses the status of various legislation the Board of Water Supply submitted testimony on measures heard by the City Council and State Legislature. It does not include all bills monitored or tracked this legislative session and the 2019 session. A full report will be presented to the Board after the adjournment of the 2020 Legislative Session.

The State Legislature is at an early-point of the 2020 Session and on February 14, 2020 all bills moved to their final committee. First decking of all bills is on February 28, 2020, this is the deadline for all bills to emerge from all their committees and submitted to the clerk of the originating chamber. First Crossover is on March 5, 2020, this is the date when all bills pass third reading in order to move (or crossover) to the other chamber.

The Board of Water Supply (BWS) continues to monitor and track all bills that may directly or indirectly impact the BWS. The BWS would like to highlight some of the bills we supported or opposed as follows:

#### **City Council Legislation**

Resolution No. 19-332, CD1, FD1: Authorizing Exemptions From Certain Requirements Relating to the Development of the Kokua Senior Affordable Housing Project At Honolulu, Oahu, Hawaii. This project involves the development of a 16 to 20-story, 223 to 234-unit senior affordable rental housing tower. There will only be a 49-stall parking podium and residential units will be located on floors six and higher. At least fifty percent of the units must be available to households earning at or below 80 percent of the AMI. BWS Position: Supports. Status: Adopted, January 29, 2020.

Resolution No. 20-4: Confirming the reappointment of Dana Kapuaala Sproat to serve on the Board of Water Supply of the City and County of Honolulu for a term to expire on June 30, 2024. BWS Position: Supports. Status: Passed First Reading and Referred to the Committee on Public Infrastructure Technology and Sustainability.

### **State Legislation**

### House Bills (HB)

HB1908: (Water and Sewer Infrastructure) This bill was referred to the Committee on Water, Land and Hawaiian Affairs (WLH) and Committee on Finance. Establishes a state water and sewer surcharge for all water and sewer utility customers. Requires the Commission on Water Resource Management to establish the surcharge rate. Requires the Hawaii Community Development Authority to expend the revenues of the surcharge to award grants to the counties to assist in funding repair, maintenance, and construction of water and sewer infrastructure. BWS Position: Oppose. Status: The Committee on WLH did not schedule a hearing on this bill.

HB2600, House Draft (HD) 1: (Water Rates) This bill was a triple referral to the Committees on WLH, Consumer Protection & Commerce (CPC), and Finance. This measure transfers water ratemaking authority from the county boards of water supply to the Public Utilities Commission. The Committee on WLH received testimony in opposition from all county water utilities. The Public Utilities Commission and Department of Commerce and Consumer Affairs submitted comments. The Committee amended the measure by removing its contents and replacing it with language requiring the Department of Health (DOH) to conduct a study of the water rates and water usage in counties with a population greater than 500,000. The bill was referred to the Committee on CPC. BWS Position: Opposed original bill, we are monitoring HD1. Status: Committee on CPC did not schedule a hearing on this measure.

HB1696, HD1: (Underground Storage Tanks (USTs)) This bill was referred to the Joint Committees on Energy and Environmental Protection (EEP) and Health (HLT) and Finance. Requires the fuel tank advisory committee to meet at least twice a year. Pursuant to Section 342L-62, Hawaii Revised Statutes, the advisory committee shall study issues related to leaks of field-constructed underground fuel storage tanks at the Red Hill Bulk Fuel Storage Facility, Kuahua Peninsula, Pacific Missile Range Facility Barking Sands, Hickam Pol Annex, and Schofield Barracks Military Reservation. The Committees on EEP/HLT amended this measure by changing its effective date to July 1, 2050 to encourage further discussion. BWS Position: Supports. Status: Referred to Committee on Finance.

HB2579, HD1: (Health) This bill was referred to the Joint Committees on EEP/HLT, and the Committee on Finance. Requires certain minimum hazard threshold levels developed by the Department of Health to be peer reviewed and approved by an independent

technical advisory committee. The Joint Committees on EEP/HLT amended this bill by removing the peer review requirement and requiring the DOH to provide advanced notice of proposed changes or variances to Environmental Action Levels to county boards or departments of water supply and other affected agencies, and changing the effective date to July 1, 2050, to encourage further discussion. **BWS Position: Supports the** 

original bill, monitoring the HD1. Status: Referred to the Committee on Finance.

Senate Bills (SB)

SB2774, SD1: (Underground Storage Tanks (USTs)) This bill was referred to the Committees on Agriculture and Environment (AEN), and Committee on Commerce, Consumer Protection, and Health (CPH). Prohibits the operation of large capacity underground storage tank systems with a capacity of 100,000 gallons or more, mauka of the underground injection control line, beginning January 1, 2028. The Committee on AEN amended this bill by amending the definition of "underground injection control line" to be consistent with the DOH underground injection control program maps. BWS Position: Supports the intent, but concerned with the technical merits of SD1. Status: Referred to the Committee on CPH.

<u>SB2775:</u> (USTs) This bill was referred to the Committees on AEN, and CPH. Requires the fuel tank advisory committee to meet twice within a same calendar year at least six months apart. Pursuant to Section 342L-62, Hawaii Revised Statutes, the advisory committee shall study issues related to leaks of field-constructed underground fuel storage tanks at the Red Hill Bulk Fuel Storage Facility, Kuahua Peninsula, Pacific Missile Range Facility Barking Sands, Hickam Pol Annex, and Schofield Barracks Military Reservation. The Committee on AEN passed this measure as is. **BWS Position: Supports.**Status: Referred to the Committee on CPH.

<u>SB2997</u>: (Health) This bill was referred to the Committees on Judiciary (JDC), and WAM. Requires certain water suppliers to adjust the levels of fluoride in public water systems. Requires the Department of Health to provide technical assistance. Requires reports to the Legislature on compliance, and on the procurement of dental care insurance by residents of this State. Becomes void when 100% of the residents of this State have either obtained or affirmatively rejected dental care insurance, pursuant to a proclamation issued by the Governor. **BWS Position: Opposed. Status:**The Committee on JDC deferred the measure.

Respectfully submitted,

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

The foregoing was for information only.

DISCUSSION: Ernest Lau, Manager and Chief Engineer, gave the report on behalf of Kathy Mitchell.

Member Soon asked if there is an explanation as to why and who is sponsoring the House Bill 1908 and 2600.

|                   | Manager Lau responded that there is no definite explanation a bill was signed and why. | s to why this |
|-------------------|----------------------------------------------------------------------------------------|---------------|
|                   |                                                                                        |               |
|                   |                                                                                        |               |
|                   |                                                                                        |               |
|                   |                                                                                        |               |
|                   |                                                                                        |               |
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|                   |                                                                                        |               |
|                   |                                                                                        |               |
|                   |                                                                                        |               |
|                   |                                                                                        |               |
| Sebruary 24, 2020 | Regular Session Minutes                                                                | Page 16 of 22 |

### ITEM FOR INFORMATION NO. 4

"February 24, 2020

CAPITAL
IMPROVEMENT
PROGRAM
QUARTERLY
UPDATE

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

Chair and Members,

Subject: Capital Improvement Program Quarterly Update

Jason Takaki, Program Administrator, Capital Projects Division, will provide an update on the Capital Improvement Program.

Respectfully submitted,

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

Attachment"

The foregoing was for information only.

DISCUSSION: Jason Takaki, Program Administrator, Capital Projects Division, gave the

report.

Chair Andaya expressed along Member Soons comments that the total budget is a hundred forty-three million and awarded to date is seventy point four million and more than half of the fiscal year has passed. Even though this is a normal pattern, this is hoping that BWS will reach the goal.

## Quarterly Capital Improvement Program Status Report All Divisions as of December 31, 2019

| Quarter Awarded                       |   | JUL - SEP      |    | OCT - DEC      |   | JAN - MAR |   | APR - JUN | Awarded to Date | Total Budgeted   |
|---------------------------------------|---|----------------|----|----------------|---|-----------|---|-----------|-----------------|------------------|
| Design Contracts Awarded (#/\$)       | 0 | \$0.00         | 1  | \$48,447.36    | 0 | \$0.00    | 0 | \$0.00    | \$48,447.36     | \$20,300,000.00  |
| Construction Contracts Awarded (#/\$) | 6 | \$4,440,237.52 | 9  | \$2,912,251.16 | 0 | \$0.00    | 0 | \$0.00    | \$7,352,488.68  | \$123,550,000,00 |
| Land Purchases (#/\$)                 | 0 | \$0.00         | 0  | \$0.00         | 0 | \$0.00    | 0 | \$0.00    | \$0.00          | \$100,000.00     |
| Project Totals                        | 6 | \$4,440,237.52 | 10 | \$2,960,698.52 | 0 | \$0.00    | 0 | \$0.00    | \$7,400,936,04  | \$143,950,000,00 |

| Quarter Completed                       |   | JUL - SEP    |   | OCT - DEC    |   | JAN - MAR |   | APR - JUN | Totals       |
|-----------------------------------------|---|--------------|---|--------------|---|-----------|---|-----------|--------------|
| Design Contracts Completed (#/\$)       | 1 | \$115,762.07 | 0 | \$0.00       | 0 | \$0.00    | 0 | \$0.00    | \$115,762.07 |
| Construction Contracts Completed (#/\$) | 1 | \$141,700.00 | 1 | \$368,960.00 | 0 | \$0.00    | 0 | \$0.00    | \$510,660.00 |
| Totals                                  | 2 | \$257,462.07 | 1 | \$368,960.00 | 0 | \$0.00    | 0 | \$0.00    | \$626,422.07 |

| Ongoing Projects                   |                  |
|------------------------------------|------------------|
| Ongoing Design Projects (#)        | 248              |
| Ongoing Design Projects (\$)       | \$102,885,889.45 |
| Ongoing Construction Projects (#)  | 137              |
| Ongoing Construction Projects (\$) | \$275,605,118.35 |

# Quarterly Capital Improvement Program Status Report All Divisions

#### DESIGN AND CONSTRUCTION PROJECTS AWARDED - SECOND QUARTER FY 2020

|        |                                                            | Expend | Budget               |                      |
|--------|------------------------------------------------------------|--------|----------------------|----------------------|
| ltem # | Project Title                                              | Type   | Amount               | Awarded              |
| 010D   | Kaahumanu Wells: Replacement of No. 2                      | CONST  | <b>\$121,088</b> .00 | <b>\$121,088</b> .00 |
| 010J   | Aiea Wells Replacement of No. 1                            | CONST  | 229,159.00           | 229,159.00           |
| 010Q   | Punaluu Wells III: No. 2 Motor Replacement                 | CONST  | 71,808.00            | 71,808.00            |
| 010R   | lolekaa Wells Replacement                                  | CONST  | 134,792.53           | _ 134,792.53         |
| 010T   | lolekaa Wells Discharge Piping Replacement                 | CONST  | 215,7 <b>15</b> .00  | 215,7 <b>15</b> .00  |
| 010U   | Kunia Wells II Flushing Valve                              | CONST  | 65,740.00            | 65,740.00            |
| 010W   | Iolekaa Wells Discharge Piping Replacement                 | CONST  | 110,221.43           | 110,221.43           |
| 037    | Service Lateral Replacement at Various Locations (Kapolei) | P&E    | 150,000.00           | 48,447.36            |
| 041B   | GAC Interior Corrosion Control at Various Locations        | CONST  | 864,325.00           | 864,325.00           |
| 047    | Security Fencing at Hoaeae, Mililani I, and Waiau Wells    | CONST  | 1,300,000.00         | 1,099,402.20         |
|        | 2nd Quarter totals                                         |        | \$3,262,848.96       | \$2,960,698.52       |

#### DESIGN AND CONSTRUCTION PROJECTS COMPLETED - SECOND QUARTER FY 2020

|         |                                                                    | Completion | Contract     |
|---------|--------------------------------------------------------------------|------------|--------------|
| Job#    | Project Title                                                      | Date       | Amount       |
| 19-005N | Mililani Wells IV Plumbness and Alighment Testing of Pumps 1 and 3 | 10/14/2019 | \$368,960.00 |
|         | 2nd Quarter totals                                                 |            | \$368,960.00 |

#### **ITEM FOR INFORMATION NO. 5**

"February 24, 2020

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

Chair and Members:

Subject: Recruitment Status

Michele L. Thomas, Executive Assistant, Human Resources Office, will be presenting an update on the Recruitment Status for the period of November 2019 to January 2020.

Respectfully submitted,

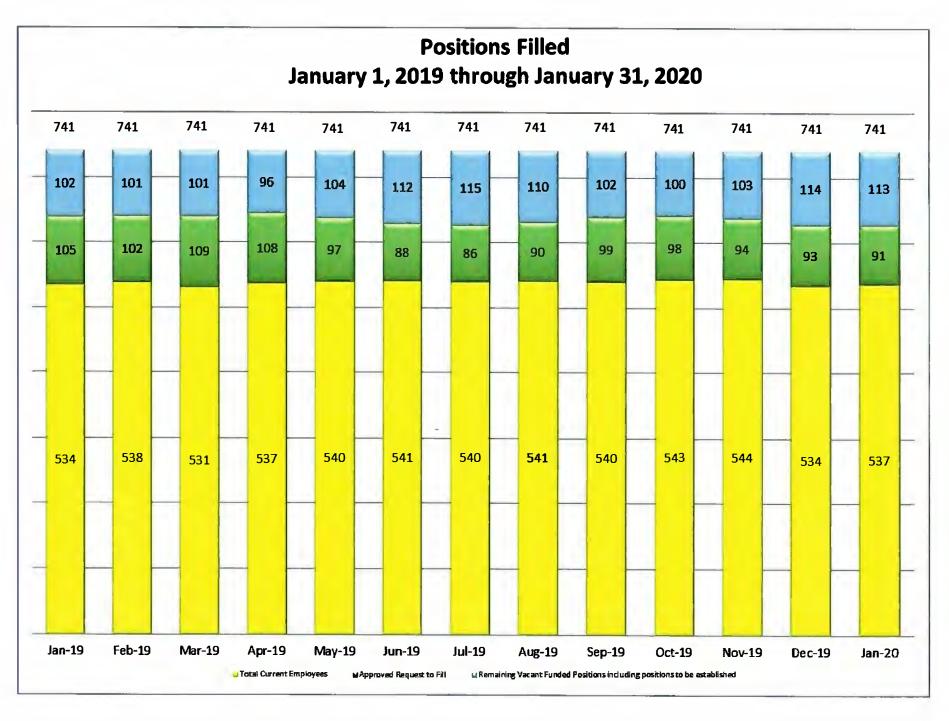
/s/ ERNEST Y. W. LAU, P.E. Manager and Chief Engineer

Attachment"

The foregoing was for information only.

DISCUSSION: Michele L. Thomas, Executive Assistant, Human Resources Office, gave

the report. There were no comments or discussions.



## **BOARD OF WATER SUPPLY**

City and County of Honolulu

# RECRUITMENT AND SEPARATION STATUS For Period November 30, 2019 to January 31, 2020

#### **Status of Positions Under Recruitment**

|                                   | as of      |            |           |  |  |
|-----------------------------------|------------|------------|-----------|--|--|
|                                   | 11/30/2019 | 12/31/2019 | 1/31/2020 |  |  |
| Pending DHR Open List             | 29         | 31         | 32        |  |  |
| Pending IDCE                      | 4          | 4          | 3         |  |  |
| Pending Interview Questions       | 18         | 21         | 20        |  |  |
| Pending Interviews                | 41         | 28         | 16        |  |  |
| Anticipated Starts                | 2          | 9          | 20        |  |  |
| Total Positions Under Recruitment | 94         | 93         | 91        |  |  |

#### **Filled Positions**

| Month     | Nov-19 | Dec-19 | Jan-20 |
|-----------|--------|--------|--------|
| Open list | 2      | 0      | 3      |
| IDCE list | 4      | 2      | 2      |

#### **Internal Movements**

| Month      | Nov-19 | Dec-19 | Jan-20 |
|------------|--------|--------|--------|
| Promotions | 4      | 0      | 1      |
| Demotions  | 0      | 1      | 1      |
| Transfers  | 0      | 1      | 0      |

#### Separations

| ocparations |        |        | and the same of th |
|-------------|--------|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Month       | Nov-19 | Dec-19 | Jan-20                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Retire      | 0      | 9      | 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Resign      | 1      | 1      | 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |

Legend:

DHR = Department of Human Resources City and County of Honolulu

IDCE = Intra-Departmental Competitive Examination

#### **ITEM FOR INFORMATION NO. 6**

"February 24, 2020

STATUS Chair and Members
UPDATE OF Board of Water Supply
GROUNDWATER City and County of Honolulu
LEVELS AT Honolulu, Hawaii 96843

ALL INDEX

STATIONS Chair and Members:

Subject: <u>Status Update of Groundwater Levels at All Index Stations</u>

There is one aquifer index well within low groundwater status for the production month of January 2020. Punaluu is under a Caution status. The monthly production average for January 2020 was 126.92 million gallons per day.

The Board of Water Supply rainfall index for the month of December 2019 was 117 percent of normal, with a 5-month moving average of 92 percent. As of February 4, 2020, the Hawaii Drought Monitor shows no dry conditions for the island of Oahu. The National Weather Service is predicting above normal precipitation for February, and forecasts above-normal rainfall through June 2020 due to persistent elevated sea surface temperatures predicted by most climate models.

Most monitoring wells continue to exhibit stable trends. Production for January 2020 was down compared to previous years.

Respectfully submitted,

/s/ Ernest Y. W. Lau, P.E Manager and Chief Engineer

Attachments"

The foregoing was for information only.

DISCUSSION: Barry Usagawa, Program Administrator, Water Resources Division, gave

the report.

Member Max Sword asked if there is an explanation as to why Punaluu water levels are lower than normal considering there has been a lot of rain.

Mr. Usagawa replied that lower water levels usually result from lower rainfall and higher pumping. Punaluu Wells was pumped higher in late 2019 and what we may be seeing now is residual effects.

Vice Chair Sproat asked is the monthly rate of 127 mgd is normal during the winter seasons.

Mr. Usagawa responded that this pumping level is normal and has never seen it go lower than 120 mgd. During the winter season if rainfall is above average pumpage decreases.

## PRODUCTION, HEAD AND RAINFALL REPORT MONTH OF JANUARY 2020

## POTABLE

| STATION                        | MGD   |
|--------------------------------|-------|
| HONOLULU (1)                   |       |
| KULIOUOU                       | 0.06  |
| WAILUPE                        | 0.11  |
| AINAUKOA                       | 0.17  |
| AINAUKOAUI                     | 0.74  |
| MANOAUI                        | 0.00  |
| PALOLO                         | 1.16  |
| KAI <b>M</b> UKI H <b>IG</b> H | 2.11  |
| KAIMUKIWOW                     | 1.53  |
| WILDER                         | 4.74  |
| BERETANIA HIGH                 | 3.65  |
| BERETANIA LOW                  | 1.59  |
| KALIHI HIGH                    | 1.17  |
| KALIHI LOW                     | 2.21  |
| KAPALAMA                       | 1.64  |
| KALIHI SHAFT                   | 5.42  |
| MOANALUA                       | 1.29  |
| HALA <b>W</b> A SHAFT          | 13.51 |
| KAAMILO                        | 0.86  |
| KALAUAO                        | 5.29  |
| PUNANANI                       | 7.59  |
| KAAHUMANU                      | 0.27  |
| HECO <b>UV</b> AIAU            | 2.66  |
| MANANA                         | 0.33  |
| WELLS SUBTOTAL:                | 58.09 |
| MANOA TUNNEL                   | 0.17  |
| PALOLO TUNNEL                  | 0.23  |
| GRAVITY SUBTOTAL:              | 0.40  |
| HONO. SUBTOTAL:                | 58.49 |

| STATION              | MGD   |
|----------------------|-------|
| WINDWARD (2)         |       |
| WAIMANALO II         | 0.27  |
| WAIMANALO III        | 0.00  |
| KUOUW                | 0.62  |
| KUOUW                | 0.06  |
| KUOU III             | 0.31  |
| LULUKU               | 0.96  |
| HAIKU                | 0.00  |
| IOLEKAA              | 0.00  |
| KAHALUU              | 0.75  |
| KAHANA               | 0.94  |
| PUNALUU I            | 0.00  |
| PUNALUU II           | 2.49  |
| PUNALUU III          | 0.63  |
| KALUANUI             | 1.29  |
| MAAKUA               | 0.24  |
| HAUULA               | 0.26  |
| WELLS SUBTOTAL:      | 8.82  |
| WAIM. TUNNELS I & II | 0.00  |
| WAIM. TUNNELS III&IV | 0.19  |
| WAIHEE INCL. WELLS   | 0.27  |
| WAIHEE TUNNEL        | 4.40  |
| LULUKU TUNNEL        | 0.05  |
| HAIKU TUNNEL         | 0.98  |
| KAHALUU TUNNEL       | 1.13  |
| GRAVITY SUBTOTAL:    | 7.02  |
| WIND. SUBTOTAL:      | 15.84 |

| STATION           | MGD  |
|-------------------|------|
| NORTH SHORE (3)   |      |
| KAHUKU            | 0.31 |
| OPANA             | 0.25 |
| WAIALEE I         | 0.43 |
| WAIALEE II        | 0.27 |
| HALEIWA           | 0.00 |
| WAIALUA           | 1.52 |
| N.SHORE SUBTOTAL: | 2.77 |

| MILILANI (4)       |      |
|--------------------|------|
| MILILANI I         | 0.88 |
| MILILANI II        | 0.00 |
| MILILANI III       | 0.56 |
| MILILANI IV        | 2.46 |
| MILILANI SUBTOTAL: | 3.90 |

| WAHIAWA (5)       |      |
|-------------------|------|
| WAHIAWA           | 0.95 |
| WAHIAWA II        | 1.82 |
| WAHIAWA SUBTOTAL: | 2.77 |

| PEARL CITY-HALAWA (6)          |      |
|--------------------------------|------|
| HALAWAU277                     | 0.61 |
| HALAWAU550                     | 0.00 |
| AIEA                           | 1.16 |
| AIEA GULCH 497                 | 0.17 |
| AIEA GULCH 550                 | 0.19 |
| KAONOHI I                      | 1.03 |
| WAIMALUU                       | 0.00 |
| NEWTOWN                        | 0.77 |
| WAIAU                          | 0.63 |
| PEARL CITY I                   | 0.68 |
| PEARL CITY II                  | 1.04 |
| PEARL CITY III                 | 0.26 |
| PEARL CITY SHAFT               | 0.91 |
| PEARL CITY-HALAWA<br>SUBTOTAL: | 7.47 |

| STATION               | MGD   |
|-----------------------|-------|
| WAIPAHU-EWA (7)       |       |
| WAIPIOUHTS.           | 1.13  |
| WAIPIO HTS, I         | 0.76  |
| WAIPIO HTS. II        | 0.30  |
| WAIPIO HTS. 111       | 1.22  |
| <b>W</b> AIPAHU       | 3.08  |
| WAIPAHU !!            | 2.14  |
| WAIPAHUWI             | 1.38  |
| WAIPAHUW              | 2.75  |
| KUNIA I               | 4.29  |
| KUNIA II              | 1.88  |
| KUNIA III             | 1.34  |
| HOAEAE                | 5.17  |
| HONOULIULII           | 0.00  |
| HONOULIULI II         | 7.21  |
| MAKAKILO              | 0.06  |
| WAIPAHU-EWA SUBTOTAL: | 32.70 |

| WAIANAE (8)          |      |
|----------------------|------|
| MAKAHA 1             | 0.00 |
| MAKAHA II            | 0.13 |
| MAKAHA III           | 0.23 |
| MAKAHA V             | 0.06 |
| MAKAHA VI            | 0.00 |
| MAKAHA SHAFT         | 0.00 |
| KAMAILE              | 0.06 |
| WAIANAEU             | 0.23 |
| WAIANAE II           | 0.15 |
| WAIANAEWII           | 0.55 |
| WELLS SUBTOTAL:      | 1.42 |
| WAIA. C&C TUNNEL     | 1.40 |
| WAIA. PLANT. TUNNELS | 0.16 |
| GRAVITY SUBTOTAL:    | 1.56 |
| WAIANAE SUBTOTAL:    | 2.98 |

#### NONPOTABLE

| NONPOTABLE         | MGD  |  |
|--------------------|------|--|
| KALAUAO SPRINGS    | 0.20 |  |
| BARBERS POINT WELL | 1.03 |  |
| GLOVER TUNNEL NP   | 0.32 |  |
| NONPOTABLE TOTAL:  | 1.55 |  |

### RECYCLED WATER (DECEMBER 2019)

| RECYCLED WATER        | MGD  |
|-----------------------|------|
| HONOULIULI WRF R-1    | 6.19 |
| HONOULIUL! WRF RO     | 1.44 |
| RECYCLED WATER TOTAL: | 7.63 |

# PRODUCTION, HEAD AND RAINFALL REPORT MONTH OF JANUARY 2020

## PRODUCTION SUMMARIES

| TOTAL WATER    | MGD    |
|----------------|--------|
| PUMPAGE        | 117.94 |
| GRAVITY        | 8.98   |
| POTABLE TOTAL: | 126.92 |
| NONPOTABLE     | 1.55   |
| RECYCLED WATER | 7.63   |
| TOTAL WATER:   | 136.10 |

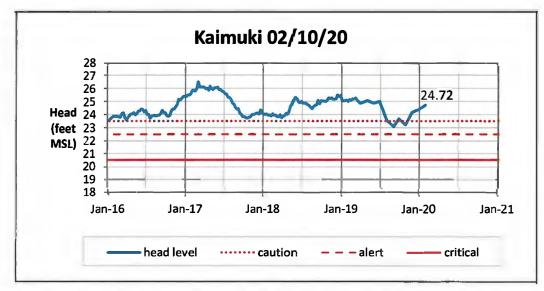
| CW | RM PERMITTED USE AND BWS | ASSESSED YI       | ELDS FO | R BWS |  |  |  |
|----|--------------------------|-------------------|---------|-------|--|--|--|
|    | POTABLE S                | OURCES            |         |       |  |  |  |
|    | ABC                      |                   |         |       |  |  |  |
|    | WATER USE DISTRICTS      | PERMITTED<br>USE/ | JAN     | DIFF. |  |  |  |
|    |                          | BWS YLDS          | 2019    | A-B   |  |  |  |
| 1  | HONOLULU                 | 82.93             | 58.09   | 24.84 |  |  |  |
| 2  | WINDWARD                 | 25.02             | 11.17   | 13.85 |  |  |  |
| 3  | NORTH SHORE              | 4.70              | 2.77    | 1.92  |  |  |  |
| 4  | MILILANI                 | 7.53              | 3.90    | 3.63  |  |  |  |
| 5  | WAHIAWA                  | 4.27              | 2.77    | 1.50  |  |  |  |
| 6  | PEARL CITY-HALAWA        | 12.25             | 7.47    | 4.78  |  |  |  |
| 7  | WAIPAHU-EWA              | 50.63             | 32.70   | 17.93 |  |  |  |
| 8  | WAIANAE                  | 4.34              | 1.42    | 2.92  |  |  |  |
|    | TOTAL:                   | 191.67            | 120.29  | 71.38 |  |  |  |

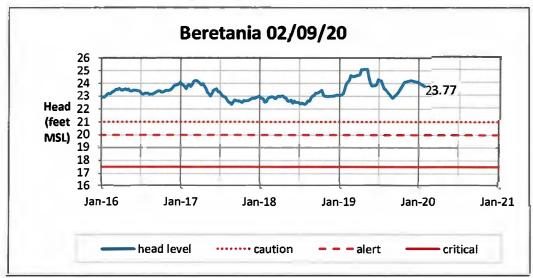
|                     | CWRM PERMITT                           | ED USE FOR       | BWS         |              |
|---------------------|----------------------------------------|------------------|-------------|--------------|
|                     | NONPOTAB                               | LE SOURCES       | 3           |              |
|                     |                                        | Α                | В           | С            |
| WATER USE DISTRICTS |                                        | PERMITTED<br>USE | JAN<br>2019 | DIFF.<br>A-B |
| 7                   | WAIPAHU-EWA<br>(BARBERS<br>POINT WELL) | 1.00             | 1.03        | -0.03        |
|                     | TOTAL:                                 | 1.00             | 1.03        | -0.03        |

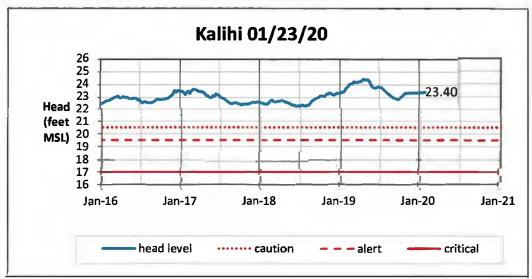
## EFFECTIVE WATER DEMAND PER DISTRICT

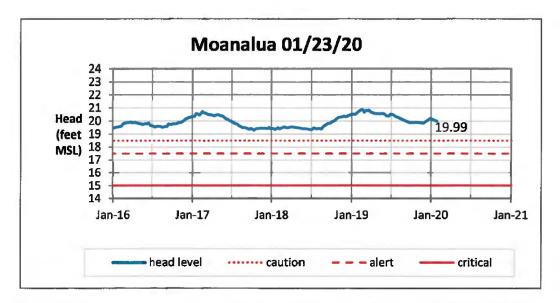
| IMPOF | RT/EXF | PORT BETWEEN WATER US | E DISTRICTS |
|-------|--------|-----------------------|-------------|
| FROM  | то     |                       | MGD         |
| 2     | 1      | WINDWARD EXPORT       | 1.65        |
| 7     | 8      | BARBERS PT LB         | 5.27        |

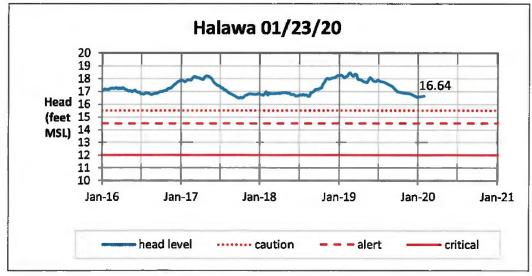
|   | WATER USE DISTRICTS | SUBTOTAL | IMPORT | EXPORT | EFFECTIVE<br>WATER<br>DEMAND |
|---|---------------------|----------|--------|--------|------------------------------|
| 1 | HONOLULU            | 58.09    | 1.65   | -      | 59.74                        |
| 2 | WINDWARD            | 11.17    |        | 1.65   | 9.52                         |
| 3 | NORTH SHORE         | 2.77     |        | - 5.7  | 2.77                         |
| 4 | MILILANI            | 3.90     | -      | -      | 3.90                         |
| 5 | WAHIAWA             | 2.77     | •      |        | 2.77                         |
| 6 | PEARL CITY-HALAWA   | 7.47     | •      |        | 7.47                         |
| 7 | WAIPAHU-EWA         | 32.70    |        | 5.27   | 27.43                        |
| 8 | WAIANAE             | 1.42     | 5.27   | - 7    | 6.69                         |
|   | TOTAL:              | 120.29   | 6.92   | 6.92   | 120.29                       |

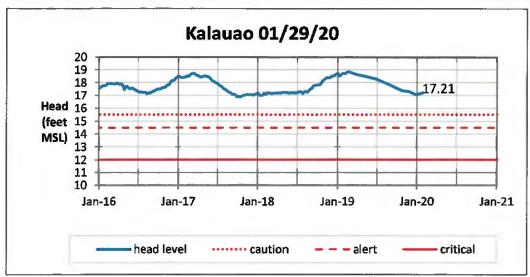


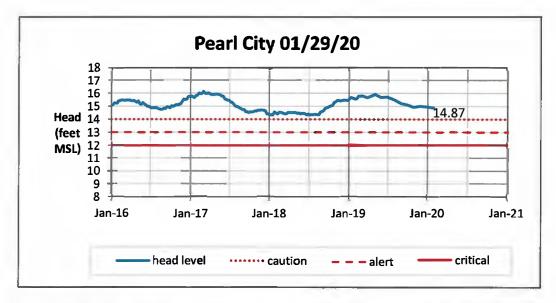


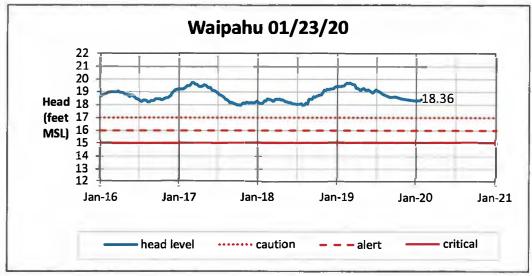


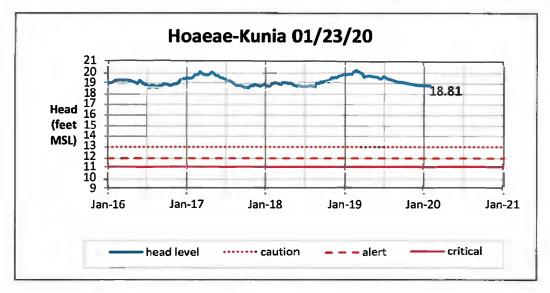


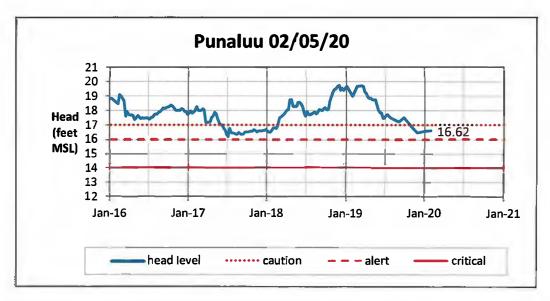


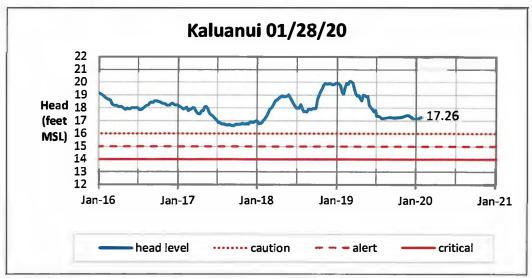


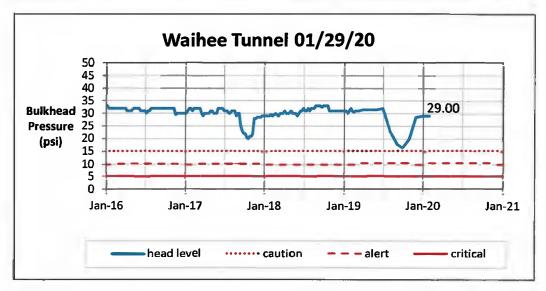




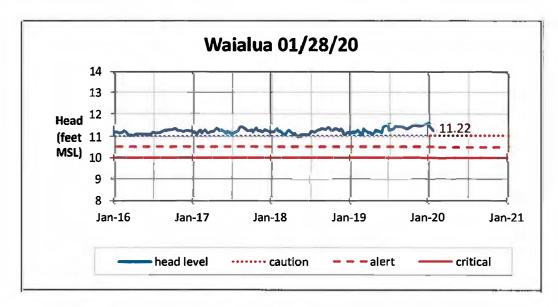


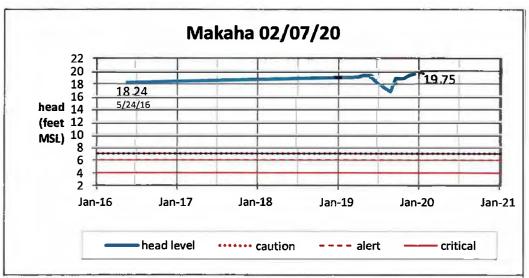


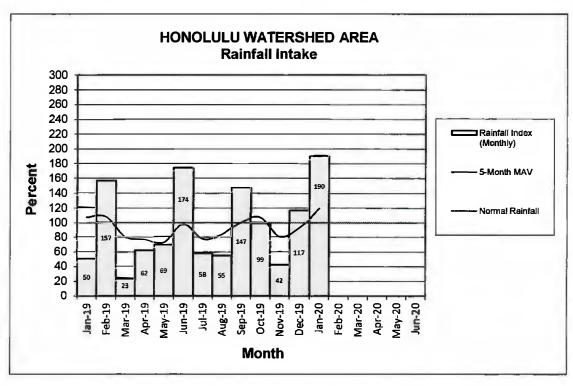


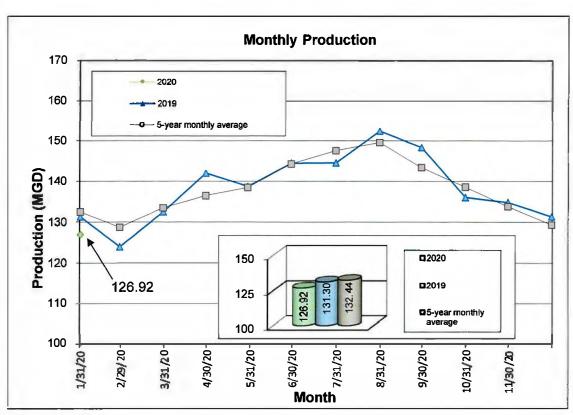


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#### ITEM FOR INFORMATION NO. 7

"February 24, 2020

WATER MAIN Chair and Members REPAIR Board of Water Supply REPORT FOR City and County of Honolulu Honolulu. Hawaii 96843 JANUARY 2020

Chair and Members:

Subject: Water Main Repair Report for January 2020

Michael Fuke, Program Administrator, Field Operations Division, will report on water main repair work for the month of January 2020.

Respectfully submitted,

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

Attachment"

The foregoing was for information only.

DISCUSSION: Michael Fuke, Program Administrator, Field Operations Division, gave the

report.

Manager Lau commented that the premature breaks on the PVC pipe are roughly about 8-10 years of age. The quality of the installation has a definite effect on the pipe. These pipes are very sensitive and have to be installed very carefully and are not subject to corrosion. Should this type of

pipe have just a small crack it can grow for the length of the pipe.

Chair Andaya asked if BWS knows where all these pipes are located.

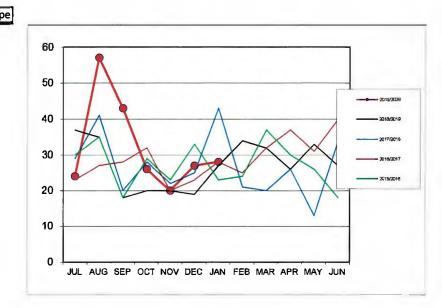
Manager Lau responded that BWS has sought out the locations of these areas where these pipes are currently and where the problems are occurring. BWS will replace these particular pipes with different materials.

## WATER MAIN REPAIR REPORT

## for January 2020

|           | JUL | AUG | SEP | ост | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | Total |
|-----------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|
| 2019/2020 | 24  | 57  | 43  | 26  | 20  | 27  | 28  |     |     |     |     |     | 225   |
| 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   |
| 2016/2017 | 23  | 27  | 28  | 32  | 20  | 23  | 28  | 25  | 32  | 37  | 31  | 40  | 346   |
| 2015/2016 | 30  | 35  | 18  | 29  | 23  | 33  | 23  | 24  | 37  | 30  | 26  | 18  | 326   |

| Date      | Address                          | Size (In) | Pipe Type |
|-----------|----------------------------------|-----------|-----------|
| 1/1/2020  | 1200 Queen St, Honolulu          | 6         | DI        |
| 1/2/2020  | 91-2119 Kamakana St, Ewa Beach   | 8         | PVC       |
| 1/6/2020  | 92-438 Farrington Hwy, Kapolei   | 24        | PVC       |
| 1/7/2020  | 98-1066 Alania St, Aiea          | 8         | CI        |
| 1/8/2020  | 423 Kanekapolei St, Honolulu     | 8         | CI        |
| 1/8/2020  | 1706 Komo Mai Dr, Pearl City     | 8         | CI        |
| 1/12/2020 | 743 Hahaione St. Honolulu        | 8         | DI        |
| 1/12/2020 | 1015 Wilder Ave, Honolulu        | 4         | GI        |
| 1/13/2020 | 86-248 Alamihi St, Waianae       | 8         | Ci        |
| 1/13/2020 | 20 Haumalu Pl, Wahiawa           | 8         | Ci        |
| 1/13/2020 | 86-020 Hoaha St, Waianae         | 8         | AC        |
| 1/13/2020 | 98-432 Hoomailani St, Pearl City | 8         | CI        |
| 1/14/2020 | 91-209 Kuhela St, Kapolei        | 12        | CI        |
| 1/14/2020 | 3107 Kaloaluiki St, Honolulu     | 8         | CI        |
| 1/14/2020 | 86-080 Hoaha St, Waianae         | 8         | AC        |
| 1/15/2020 | 51-436 Kamehameha Hwy, Kaaawa    | 6         | CI        |
| 1/16/2020 | 51-444 Kamehameha Hwy, Kaaawa    | 6         | CI        |
| 1/17/2020 | 85-946 Mill St, Waianae          | 8         | Ci        |
| 1/17/2020 | 45-869 Luana Pl, Kaneohe         | 6         | Cl        |
| 1/17/2020 | 1808 Liliha St, Honolulu         | 12        | PVC       |
| 1/20/2020 | 1306 Kainui Dr, Kailua           | 12        | Cl        |
| 1/21/2020 | 98-641 Moanalua Loop, Aiea       | 8         | CI        |
| 1/22/2020 | 3524 Maluhia St, Honolulu        | 12        | CI        |
| 1/23/2020 | 1819A 9th Ave, Honolulu          | 8         | CI        |
| 1/25/2020 | 151 Koalele St, Honolulu         | 6         | CI        |
| 1/27/2020 | 86-253 Kawili St, Waianae        | 8         | PVC       |
| 1/28/2020 | 1180 Kuokoa St, Pearl City       | 8         | CI        |
| 1/29/2020 | 92-423 Akaula St, Kapolei        | 8         | CI        |



18 miles of pipeline were surveyed by the Leak Detection Team in the month of January.

| MOTION TO          |
|--------------------|
| <b>RECESS INTO</b> |
| EXECUTIVE          |
| SESSION            |

Upon unanimously approved the motion, the Board recessed into Executive Session Pursuant to [HRS §92-5(a)(2)] at 2:55 PM to Consult with the Board's Attorney on Question and Issues

Pertaining to Matters Posted for Discussion at an

Executive Session.

OPEN SESSION The Board reconvened in Open Session at 3:26 PM.

MOTION TO ADJOURN There being no further business Chair Andaya at 3:27 PM called for a motion to adjourn the Open Session. Ross Sasamura so moved;

seconded by Max Sword and unanimously carried.

| THE MINUTES OF THE REGULAR SESSION BOARD MEETING ON FEBRUARY 24, 2020 WERE APPROVED AT THE MARCH 23, 2020 BOARD MEETING |     |    |         |  |  |  |
|-------------------------------------------------------------------------------------------------------------------------|-----|----|---------|--|--|--|
|                                                                                                                         | AYE | NO | COMMENT |  |  |  |
| BRYAN P. ANDAYA                                                                                                         | Х   |    |         |  |  |  |
| KAPUA SPROAT                                                                                                            | X   |    |         |  |  |  |
| KAY C. MATSUI                                                                                                           | x   |    |         |  |  |  |
| RAY C. SOON                                                                                                             | х   |    |         |  |  |  |
| MAX J. SWORD                                                                                                            | Х   |    |         |  |  |  |
| ROSS S. SASAMURA                                                                                                        | _ x |    |         |  |  |  |
| JADE T. BUTAY                                                                                                           | Х   |    |         |  |  |  |

The minutes of the Regular Meeting held on February 24, 2020 are respectfully submitted,

DEANNA THYSSEN

APPROVED:

BRYAN P. ANDAYA Chair of the Board

Mw. 23 2020

Date