

MINUTES

PUBLIC HEARING AND THE REGULAR MEETING OF THE BOARD OF WATER SUPPLY

May 29, 2018

The Public Hearing was held in the Board Room of the Public Service Building at 630 South Beretania Street, Honolulu, Hawaii, to Consider (1) Adoption of the Operating and Capital Improvement Program Budget for the Fiscal Year 2018-2019 and Appropriating Funds Therefor.

Present: Bryan P. Andaya, Chair
Kapua Sproat, Vice Chair
David C. Hulihee
Ray C. Soon
Ross. S. Sasamura
Jade T. Butay (arrived at 2:03 PM)

Also Present: Ernest Lau, Manager and Chief Engineer
Ellen Kitamura, Deputy Manager and Chief Engineer
Robert Morita
Stuart Wong
Erwin Kawata
Mike Fuke
Jason Takaki
Kevin Ihu
Barry Usagawa
Henderson Nuuhiwa
Mike Matsuo
Kathleen Pahinui
Joe Cooper
Jennifer Elflein
Michele Thomas
Mitzi Okumura

Others Present: Jeff Lau, Deputy Corporation Counsel
Li Li, Deputy Corporation Counsel
Dave Ebersold, CDM Smith
Chris Harris, CDM Smith
Reed Harris, CDM Smith
Chris Cleveland, Brown and Caldwell
Robin Chun-Carmichael, Department of Human Resources

Absent: Kay C. Matsui

The meeting was taken out of order.

At 2:00 PM, Chair Andaya called to order the Public Hearing. Mr. Andaya announced that a Public Hearing will first be held. After the Public Hearing, the Regular Meeting of the Honolulu Board of Water Supply (BWS) will commence.

Mr. Andaya began by giving his opening remarks. He stated that public notice appeared in the May 19, 2018 Honolulu Star Advertiser Newspaper, a publication of general circulation. Mr. Andaya stated that the Board of Water Supply is dedicated to providing safe, dependable, and affordable supply of water to its customers. To ensure this, thoughtful planning and funding of a regular program of water facility replacement and improvement is needed, as reflected in the annual Operating and Capital Improvement Program (CIP) Budget being considered today.

Mr. Andaya stated that a Budget Workshop Meeting was held on May 14, 2018. The Department's goals and objectives were outlined in this meeting and the Operating and CIP Budget was proposed for Fiscal Year (FY) 2018-2019.

Before officially opening the Public Hearing, Mr. Andaya called on Ernest Lau, Manager and Chief Engineer, to provide his remarks. Mr. Lau thanked the Board members, and expressed how much of an honor it is to serve the Board of Water Supply and to be its Manager and Chief Engineer. Mr. Lau stated that the proposed budget for FY 2018-2019 consists of the Operating Budget of approximately \$186.3 million, which provides for operational maintenance costs for continued water service to BWS's customers. The proposed budget also consists of the CIP Budget of approximately \$138.5 million, which provides for funding of research and facility replacement costs, as well as funding of major water system additions or extensions.

Mr. Lau stated that BWS staff would continue to right size the Operating Budget in order to maximize ratepayer monies, and to operate BWS effectively and efficiently. The CIP Budget will continue to grow as outlined in the Water Master Plan and Long Range Financial Plan. Mr. Lau thanked the Board for their support in adopting both plans as policy.

Mr. Lau called on Robert Morita, Executive Support Office Executive Assistant, and Jason Takaki, Capital Projects Division Program Administrator, to provide the presentation.

Before beginning his presentation, Mr. Morita thanked Stuart Wong, Budget Program Specialist, for all his hard work on the proposed budget.

Mr. Morita stated that the presentation that is being presented is nearly identical to the one presented at the Budget Workshop Meeting that was held on May 14, 2018.

In regards to Slide 5, Mr. Andaya pointed out that the Operating Fund ending balances have been decreasing each year since 2017 due to BWS efforts to fund more CIP projects. Mr. Lau added that BWS has also been trying to fund more pipeline projects and pump station, water tank, and facility repairs. Mr. Morita added that the first column (2017) are actuals, while the 2018-2019 columns have projections built in. The projections tend to be more conservative to try to ensure that BWS stays on the positive side of the projection. Mr. Lau pointed out that the FY ends on June 30th of each year. Because this is only the month of May, projections to the end of the FY still need to be made. Mr. Morita agreed and added that the \$98.3 million ending balance for the current FY will most likely end up higher once the final accounting is done at the close out of the FY.

Mr. Morita pointed out the “waivers” category in the pie chart on Slide 6. He explained that it is a placeholder amount and largely involves the Water System Facilities Charge (WSFC). Mr. Lau explained that, in the next few months, the Board will be considering a waiver of the WSFC to encourage the community values of affordable housing, development of more homeless units, and fire sprinkler retrofits for high-rise condominiums without fire sprinkler systems. Mr. Morita stated that BWS intends to provide the Board with quarterly updates of the waivers. Mr. Lau added that if the Board decides that the placeholder amount of \$500,000 needs to be higher, the budget could be adjusted because of the likelihood that the carryover balance at the closing of the FY could end up higher than projected.

Mr. Morita stated that the biggest change in the budget in the coming FY is with positions and vacancies. BWS is requesting, through the adoption of Resolution No. 887, additional positions in the budget. At the Budget Workshop Meeting that was held on May 14, 2018, it was noted that only one mechanical engineer position in the Capital Projects Division was being requested, even though the Water Master Plan requires BWS to increase pipeline replacement to 21 miles per year. To address that concern, Mr. Morita pointed out that there were actually 13 positions created in the Capital Projects Division in the current FY 2018 Budget.

Board Member Sasamura asked if the 52 abolished positions, noted on Slide 17, were truly abolished or were they re-characterized and reallocated into other positions. Mr. Morita responded that, out of the 52, less than 10 were reclassified. The remaining 40-something positions were actually abolished.

Jason Takaki, Capital Projects Division Program Administrator, gave his presentation on the FY 2018-2019 CIP Budget. Mr. Takaki gave an overview of project categories – Research and Development, Renewal and Replacement, and Capacity Expansion. Highlights of each category were also given.

Mr. Takaki stated that BWS Division Heads and Staff Officers are present to answer any questions on any specific FY 2018-2019 CIP projects. There were no questions.

Mr. Morita concluded the presentation on the FY 2018-2019 Operating and CIP Budget. There were no further questions or discussion.

Mr. Andaya thanked Mr. Morita and Mr. Takaki, and opened up the Public Hearing. Mr. Andaya stated that testimonies are limited to three minutes, due to time constraints. He asked that any testifiers come forward and state their name and organization before proceeding with their testimony. There being no testimony, discussion, or questions, Mr. Andaya closed the Public Hearing and proceeded with the adoption of Resolution No. 887, Adopting the Operating and Capital Improvement Program Budget for the FY 2018-2019 and Appropriating Funds Therefor.

"May 29, 2018

ADOPTION OF
RESOLUTION
NO. 887, 2018

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

Chair and Members:

Subject: Adoption of Resolution No. 887, 2018, Adopting the
Operating and Capital Improvement Program Budget for the
Fiscal Year 2018-2019 and Appropriating Funds Therefor

We recommend adoption of the proposed Operating and Capital
Improvement Program Budget for the fiscal year beginning July 1, 2018
and ending June 30, 2019.

A Public Hearing to consider the proposed budget, as required by the City
Charter, was held on May 29, 2018. The affidavit attesting to the
publication of the Public Hearing notice is attached.

We further recommend adoption of the attached Resolution No. 887, 2018,
appropriating funds for the Operating and Capital Improvement Program
Budget for Fiscal Year 2018-2019, as follows:

1. The sum of \$186,320,999 from the Operating Fund for Operating
Budget expenditures.
2. The sum of \$118,574,000 from the Operating Fund and \$19,887,000
from the Special Expendable Fund for Capital Improvement Program
Budget expenditures.

Respectfully submitted,

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

Attachments"

AFFIDAVIT OF PUBLICATION

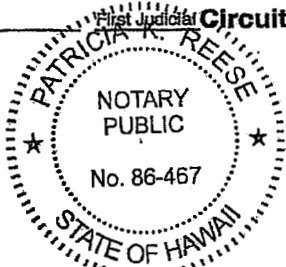
**IN THE MATTER OF
NOTICE OF PUBLIC HEARING**

STATE OF HAWAII

City and County of Honolulu

Doc. Date: MAY 21 2018 **# Pages:** 1
Notary Name: Patricia K. Reese
Doc. Description: Affidavit of Publication

Patricia K. Reese **MAY 21 2018**
 Notary Signature Date



Lisa Kaukani being duly sworn, deposes and says that she is a clerk, duly authorized to execute this affidavit of Oahu Publications, Inc. publisher of The Honolulu Star-Advertiser, MidWeek, The Garden Island, West Hawaii Today, and Hawaii Tribune-Herald, that said newspapers are newspapers of general circulation in the State of Hawaii, and that the attached notice is true notice as was published in the

Honolulu Star-Advertiser 1 times on:

05/19/2018

MidWeek 0 times on:

The Garden Island 0 times on:

Hawaii Tribune-Herald 0 times on:

West Hawaii Today 0 times on:

Other Publications: 0 times on:

And that affiant is not a party to or in any way interested in the above entitled matter.

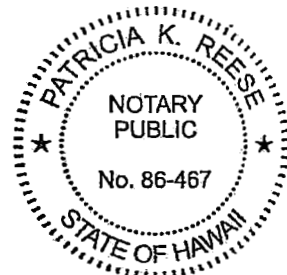
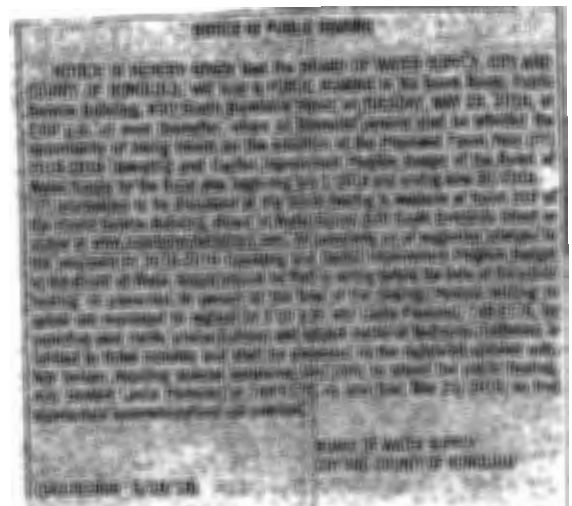
Lisa Kaukani
 Lisa Kaukani

Subscribed to and sworn before me this 21st day of May A.D. 20 18

Patricia K. Reese
 Patricia K. Reese, Notary Public of the First Judicial Circuit, State of Hawaii
 My commission expires: Oct 07, 2018

Ad# 0001093905

SP.NO.: _____ L.N.



MOTION TO
ADOPT
RESOLUTION
NO. 887, 2018

Jade Butay motioned to adopt Resolution No. 887, 2018, Adopting the Operating and Capital Improvement Program Budget for the Fiscal Year 2018-2019 and Appropriating Funds Therefor, seconded by David Hulihee. The motion was unanimously carried.

DISCUSSION:

Mr. Lau thanked the Board for their support. There were no comments or discussion.

BOARD OF WATER SUPPLY
CITY AND COUNTY OF HONOLULU

RESOLUTION NO. 887, 2018

**RESOLUTION ADOPTING THE OPERATING AND CAPITAL IMPROVEMENT
PROGRAM BUDGET FOR THE FISCAL YEAR 2018-2019 AND APPROPRIATING
FUNDS THEREFOR**

BE IT RESOLVED by the Board of Water Supply, City and County of Honolulu, State of Hawaii, that in accordance with the provisions of Article VII of the Revised Charter of the City and County of Honolulu, the sum of ONE HUNDRED EIGHTY-SIX MILLION THREE HUNDRED TWENTY THOUSAND NINE HUNDRED NINETY- NINE DOLLARS (\$186,320,999) be and the same is hereby appropriated out of all monies placed to the credit of the Operating Fund for expenditures of the Board of Water Supply Operating Budget for the fiscal year beginning July 1, 2018 and ending June 30, 2019, as follows:

OPERATING BUDGET

OPERATING FUND.....\$186,320,999

BE IT FURTHER RESOLVED that the said Operating Fund appropriation may be increased to the extent that any State or Federal environmental law, regulation, and/or electric power cost, causes the Board of Water Supply to exceed the cost thresholds as specified in the Schedule of Rates and Charges for the Furnishing of Water and Water Service; and

BE IT FURTHER RESOLVED that the sum of ONE HUNDRED EIGHTEEN MILLION FIVE HUNDRED SEVENTY-FOUR THOUSAND DOLLARS (\$118,574,000) be and the same is hereby appropriated out of all monies placed to the credit of the

Operating Fund and the sum of NINETEEN MILLION EIGHT HUNDRED EIGHTY-SEVEN THOUSAND DOLLARS (\$19,887,000) be and the same is hereby appropriated out of all monies placed to the credit of the Special Expendable Fund for expenditures of the Board of Water Supply Capital Improvement Program Budget for the fiscal year beginning July 1, 2018 and ending June 30, 2019, as follows:

CAPITAL IMPROVEMENT PROGRAM BUDGET


OPERATING FUND.....	\$ 118,574,000
SPECIAL EXPENDABLE FUND.....	\$ 19,887,000

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

BE IT FINALLY RESOLVED that revenue bonds of the Board of Water Supply, City and County of Honolulu, general obligation bonds of the City and County of Honolulu, commercial paper or other alternative forms of financing deemed appropriate by the Board of Water Supply, are authorized for issuance to yield the amount that may be necessary to finance projects listed in the Board of Water Supply Capital Improvement Program Budget and designated to be financed from the Improvement Fund and such additional amounts as may be deemed necessary to pay the expenses of issuance of such bonds or other financing; provided that the Board of Water Supply

shall by resolution, and the City Council of the City and County of Honolulu for general obligation bonds shall by ordinance, determine the form, date, amount, denomination, and maturity of the bonds herein authorized.

ADOPTED:


BRYAN P. ANDAYA
Chair

Honolulu, Hawaii
May 29, 2018

RESOLUTION NO. 887, 2018, ADOPTING THE
OPERATING AND CAPITAL IMPROVEMENT
PROGRAM BUDGET FOR THE FISCAL YEAR 2018-
2019 AND APPROPRIATING FUNDS THEREFOR, WAS
ADOPTED ON MAY 29, 2018

	AYE	NO	COMMENT
BRYAN P. ANDAYA	X		
KAPUA SPROAT	X		
DAVID C. HULIHEE	X		
KAY C. MATSUI			ABSENT
RAY C. SOON	X		
ROSS S. SASAMURA	X		
JADE T. BUTAY	X		

WATER FOR LIFE

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Board of Water Supply
City and County of Honolulu

FY 2019 Budget



Board of Water Supply

May 29, 2018





Agenda

- Opening Remarks
- Operating Budget
 - Positions and Vacancies
- Capital Improvement Program Budget
- Summary





FY 2019 Operating Budget





Operating Fund Revenue Expenditure Summary (millions of dollars)

	FY 2018	FY 2019	Change	
	Adopted	Proposed	\$ Mil.	%
Revenues	\$236.5	\$239.2	\$2.7	1.2%
Total Operating Expenditures	\$191.5	\$185.8	\$-5.7	-3.0%





Operating Fund Resources and Expenditures

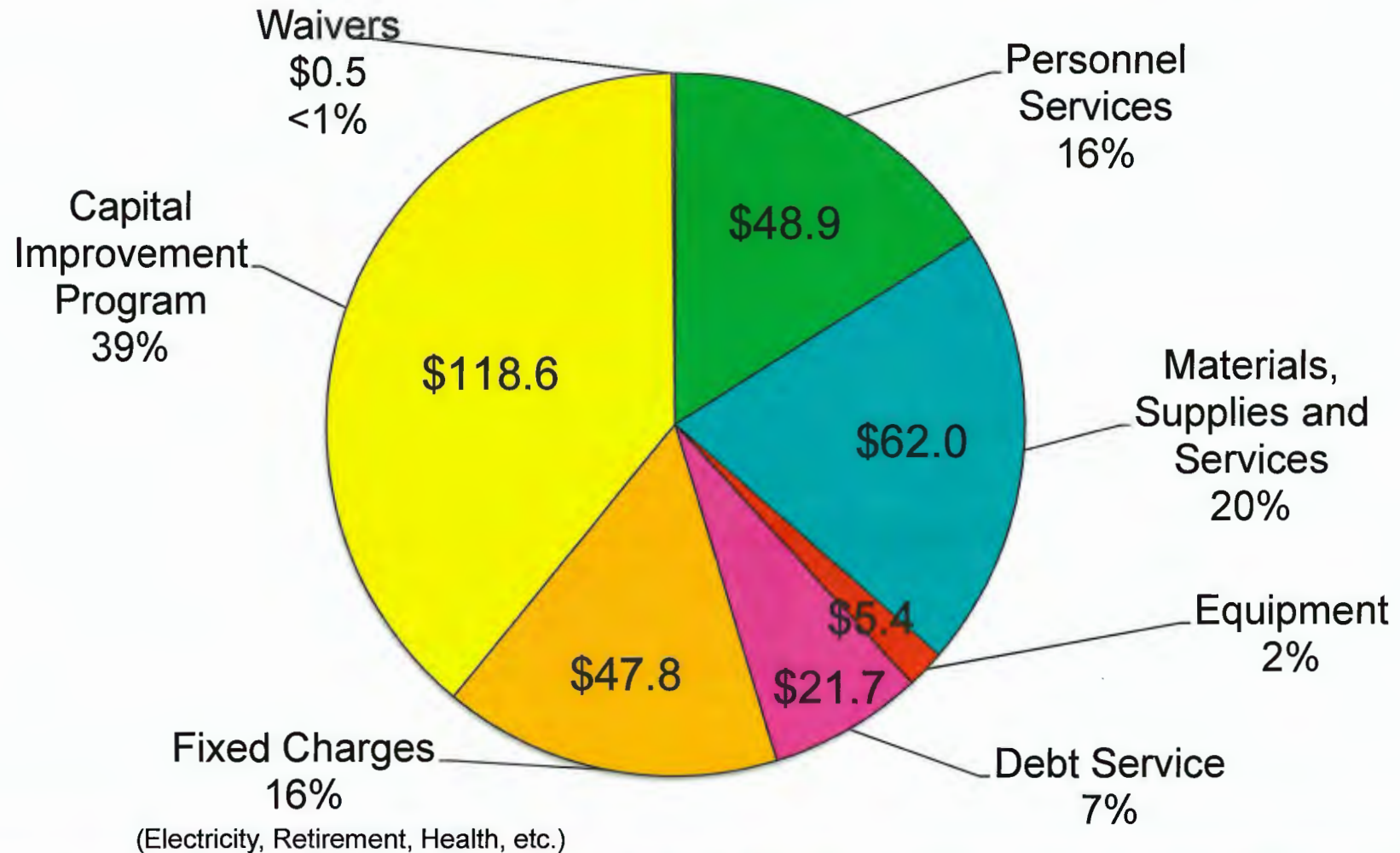
(millions of dollars)

	FY 2017	FY 2018	FY 2019
	Actual	Estimated Actual	Budget
Beginning Balance	\$ 115.1	\$120.7	\$ 98.3
Revenues	235.4	240.5	239.2
Lapses/ Adjustments	13.7	1.8	-
Total Resources	364.2	363.0	337.5
Operating Expenditures	169.1	162.7	185.8
Capital Improvement Program	74.4	102.0	118.6
Transfer to Special Ex. Fund (WSFC waivers – Affordable Housing Program)			0.5
Total Expenditures	243.5	264.7	304.9
Ending Balance	120.7	\$98.3	\$ 32.6



Operating Budget Expenditures for FY 2019

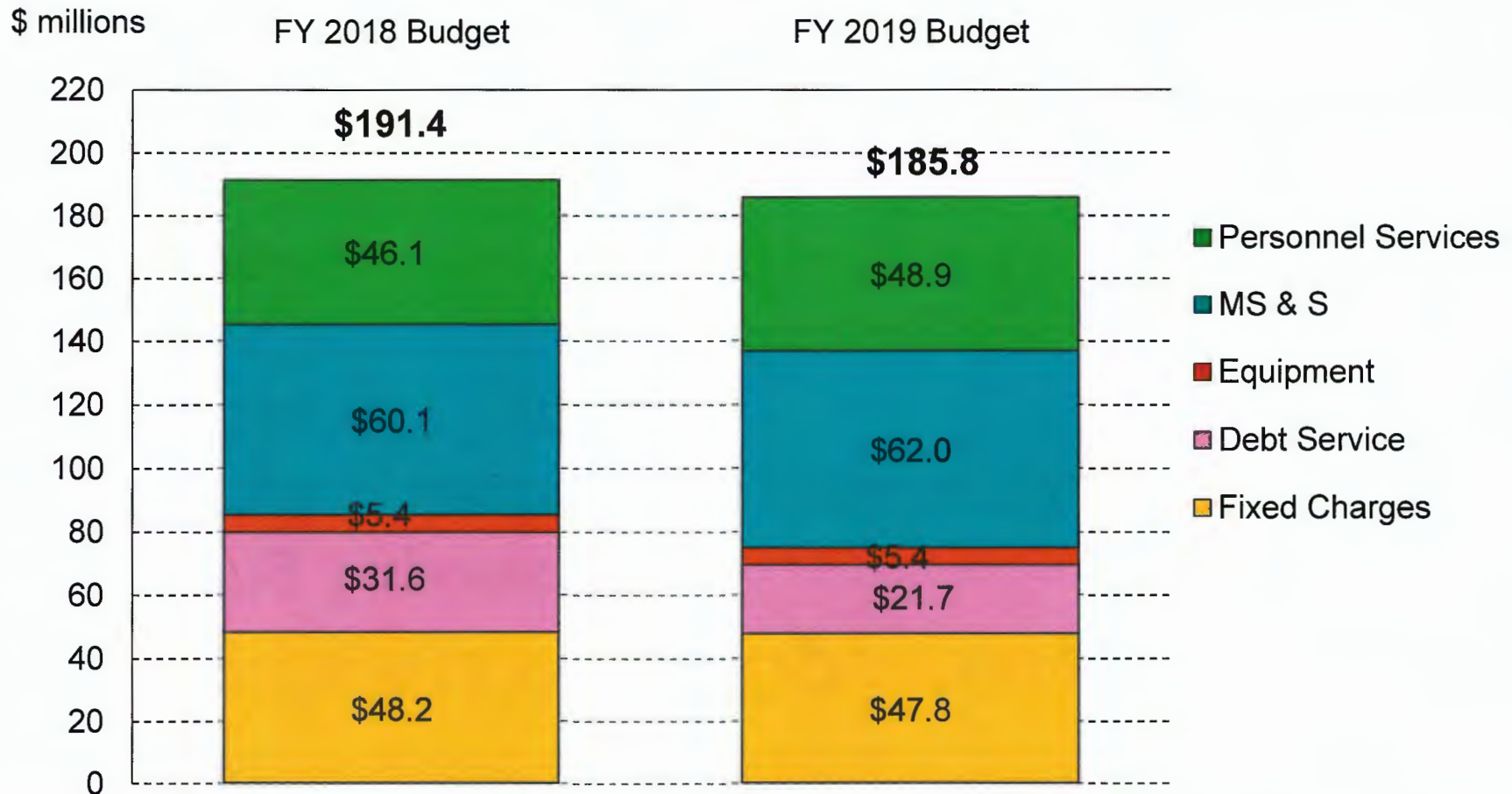
Total budget = \$311.4 million





Operating Budget Expenditures

FY 2018 Budget vs. FY 2019 Budget





Highlights of the Operating Budget

Operating Expenses:

- \$9.9 million decrease in debt service(from \$31.6 million to \$21.7 million)
- \$2.8 million increase in funding for personnel services
- \$1.8 million increase in funding for water quality and treatment studies
- \$1 million increase in funding for emergency road repairs
- \$1.2 million decrease in funding for the purchase of meters



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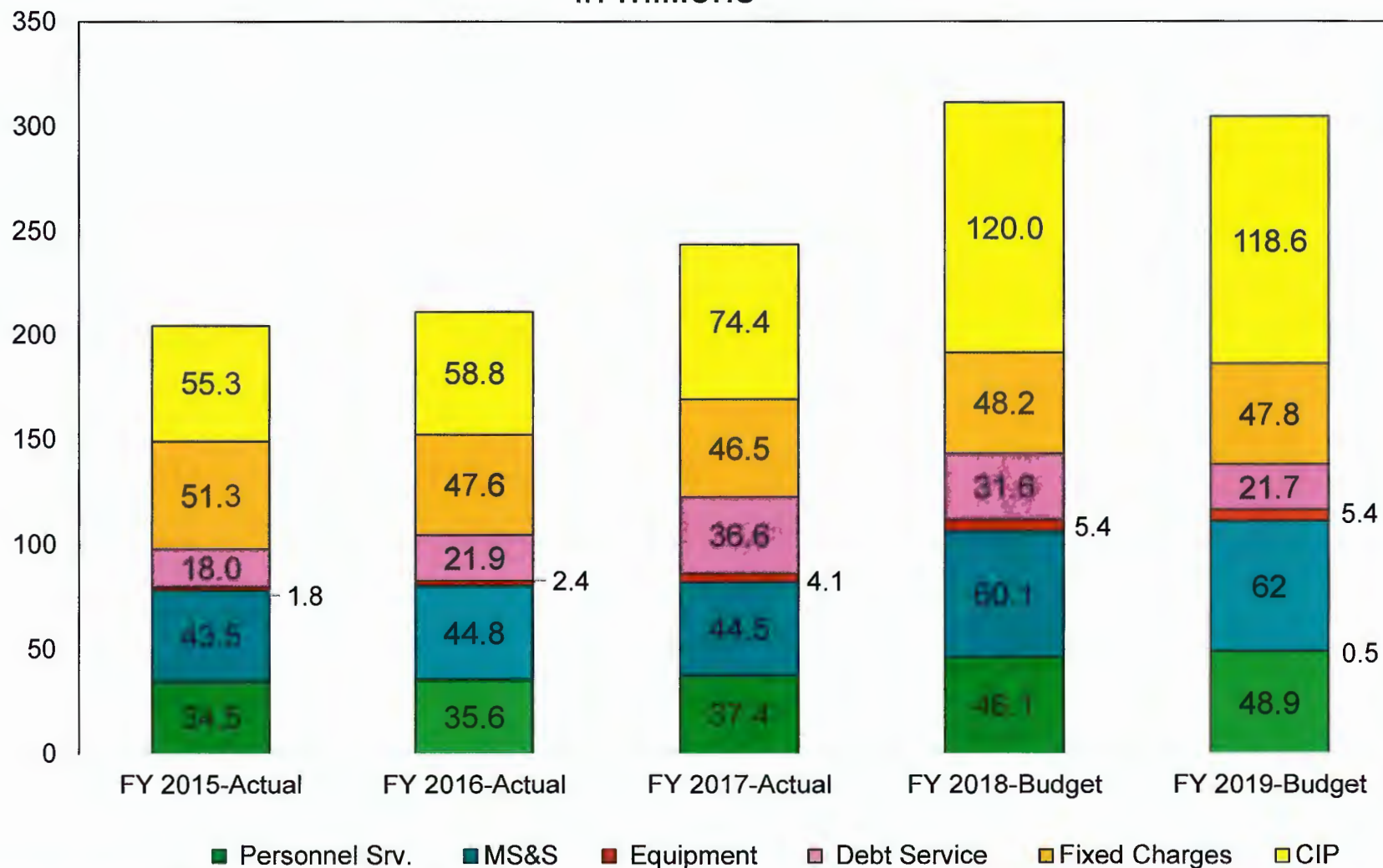
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Board of Water Supply
City and County of Honolulu

Operating Fund Expenditures

in millions





Revenues

- Water sales are projected to be relatively flat over FY 2018 Budget-Estimated
- No water rate increases in FY 2019

The FY 2019 projection is primarily due to stable potable water consumption in the near term

UHERO remains positive in its economic forecast that Hawaii's economy will continue to grow.

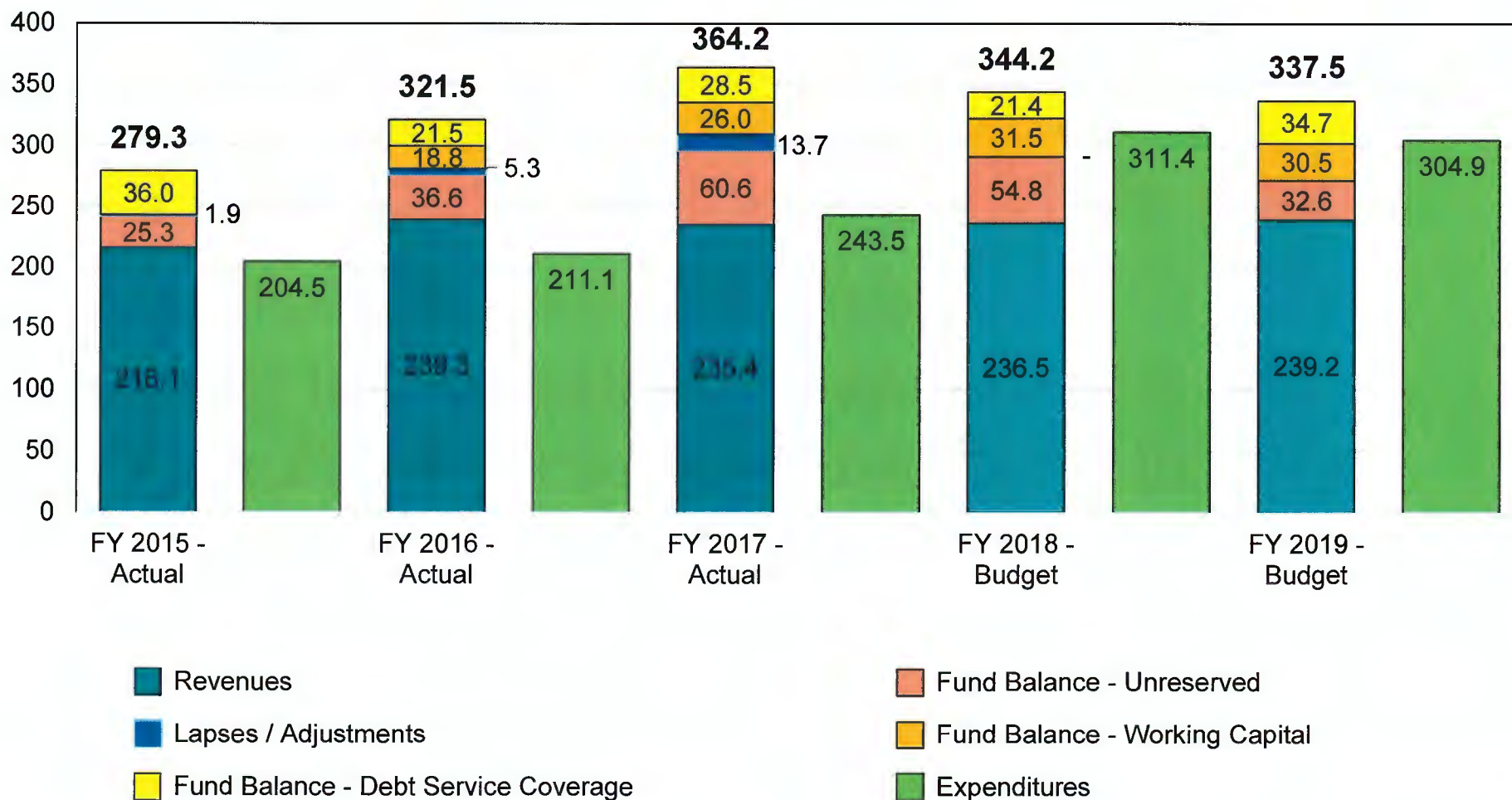
-- May 4, 2018





Total Resources vs. Total Expenditures

in millions





Positions and Vacancies

- During the recession from 2007 to 2009, BWS implemented a hiring freeze that reduced employee counts
- A BWS hiring freeze was in place from about 2008 to early 2012
- The department held many positions vacant in order to generate budget savings



Positions and Vacancies

- Vacancies at supervisory levels creates a cascading effect of subsequent vacancies that takes more time to fill. Effects are still being felt today
- Positions held vacant ranged from journey positions to apprentices
- This affected supervisory and apprentice to journey ratios (2:1)





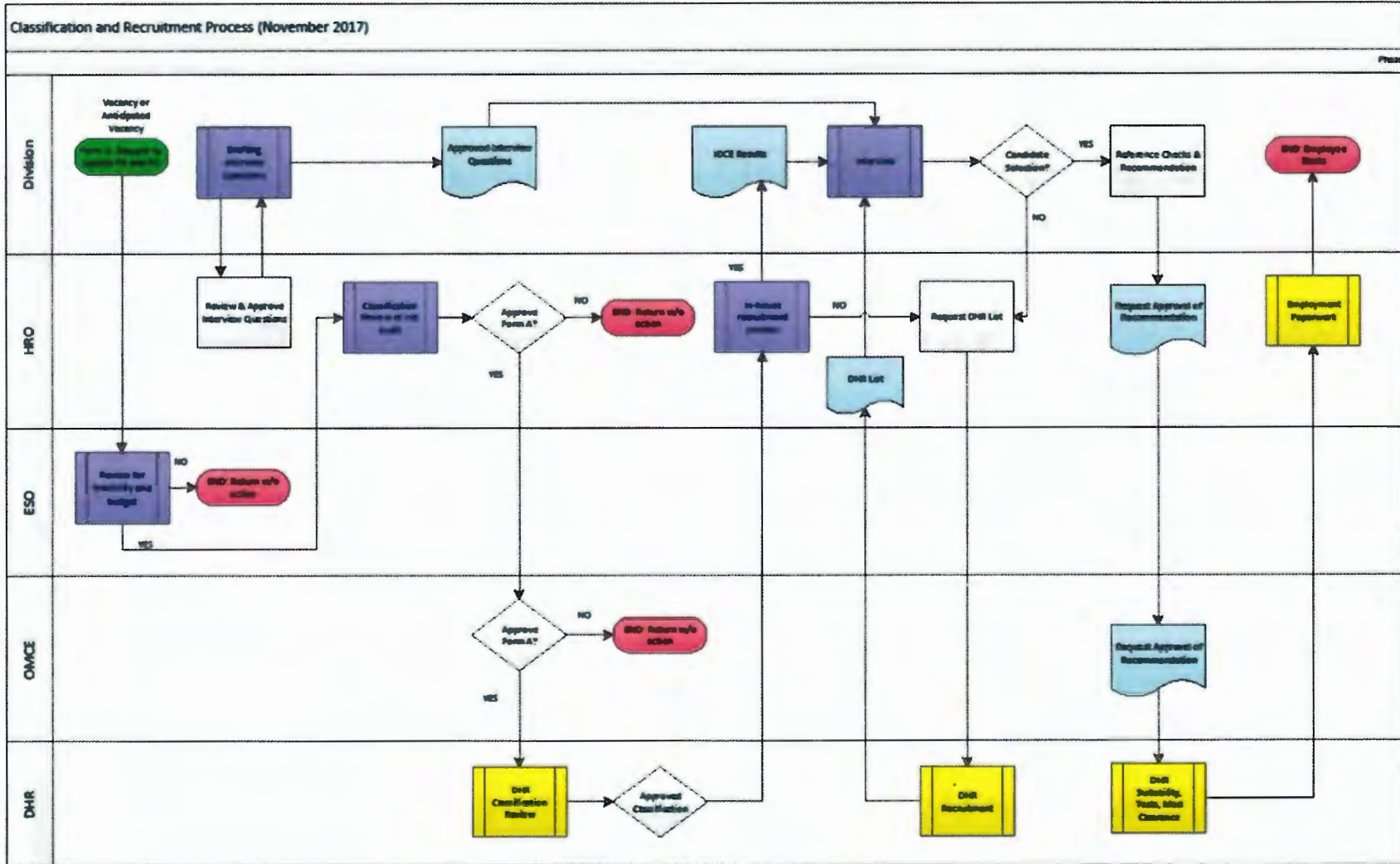
Budget Process

- All positions must be budgeted in the operating budget
- Requests for new positions must be submitted through the annual budget
- Current practice is that new position requests require that long-standing vacant positions be used





Classification & Recruitment Workflow





Position Control

- “Authorized positions” are permanent, civil service positions created by the Board through budget authorization
- “Personal services contracts” are positions for limited durations that may be used for temporary workload staffing or to perform duties while a position is being recruited



Position Control

Number of vacant positions abolished to accommodate new positions since 2015:

52

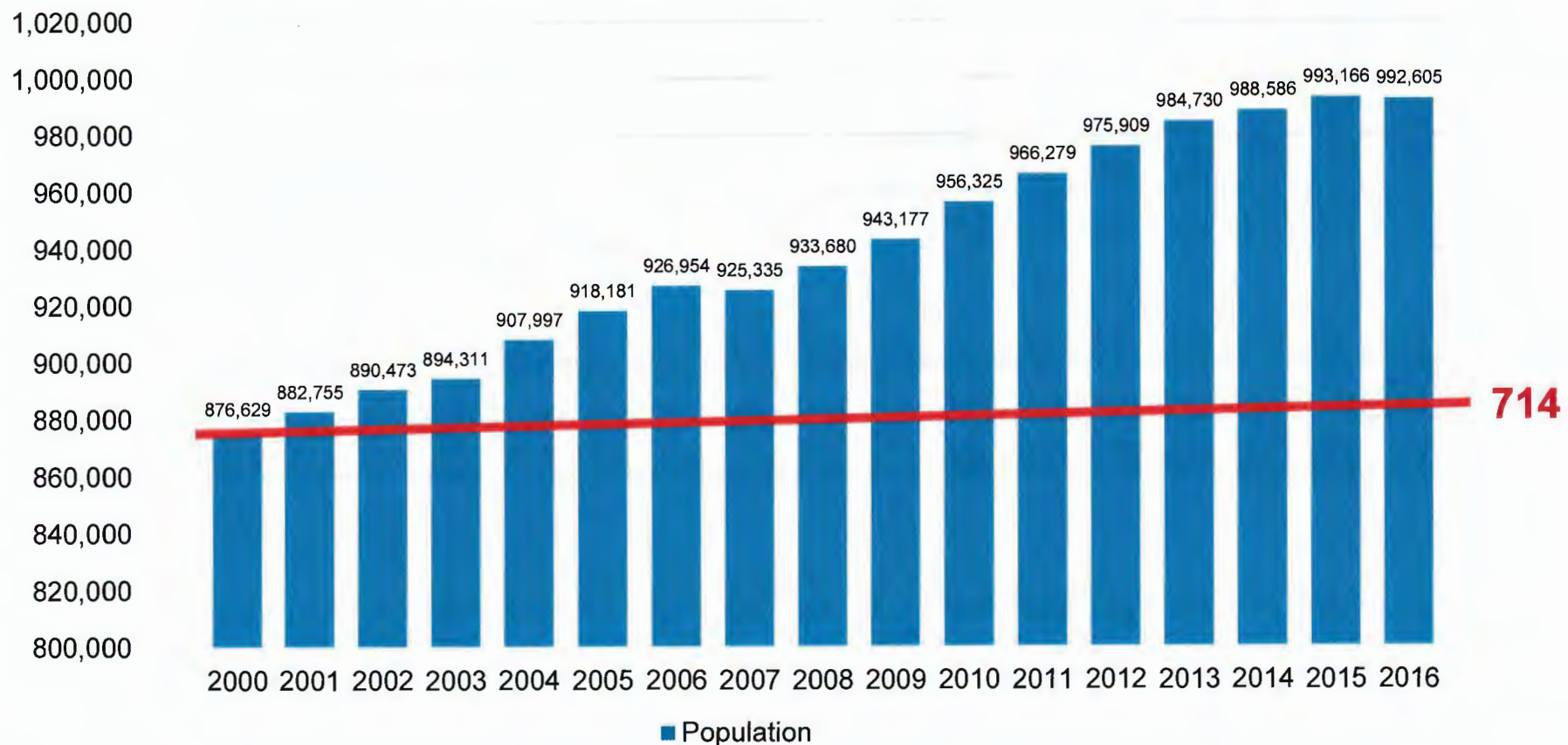
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Board of Water Supply
City and County of Honolulu

Honolulu Population



Source: Department of Business, Economic Development and Tourism

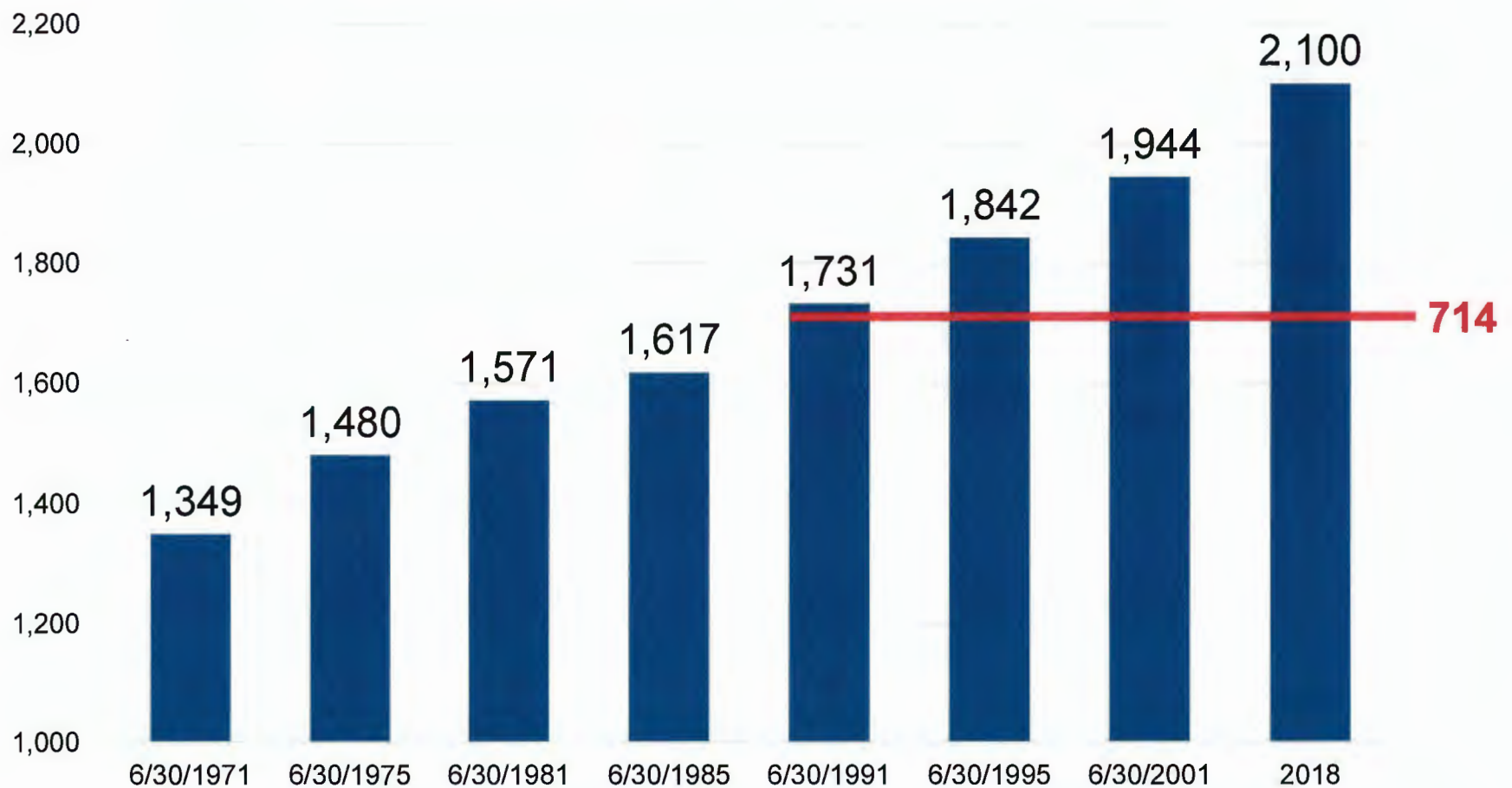
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City and County of Honolulu

Miles of Pipeline



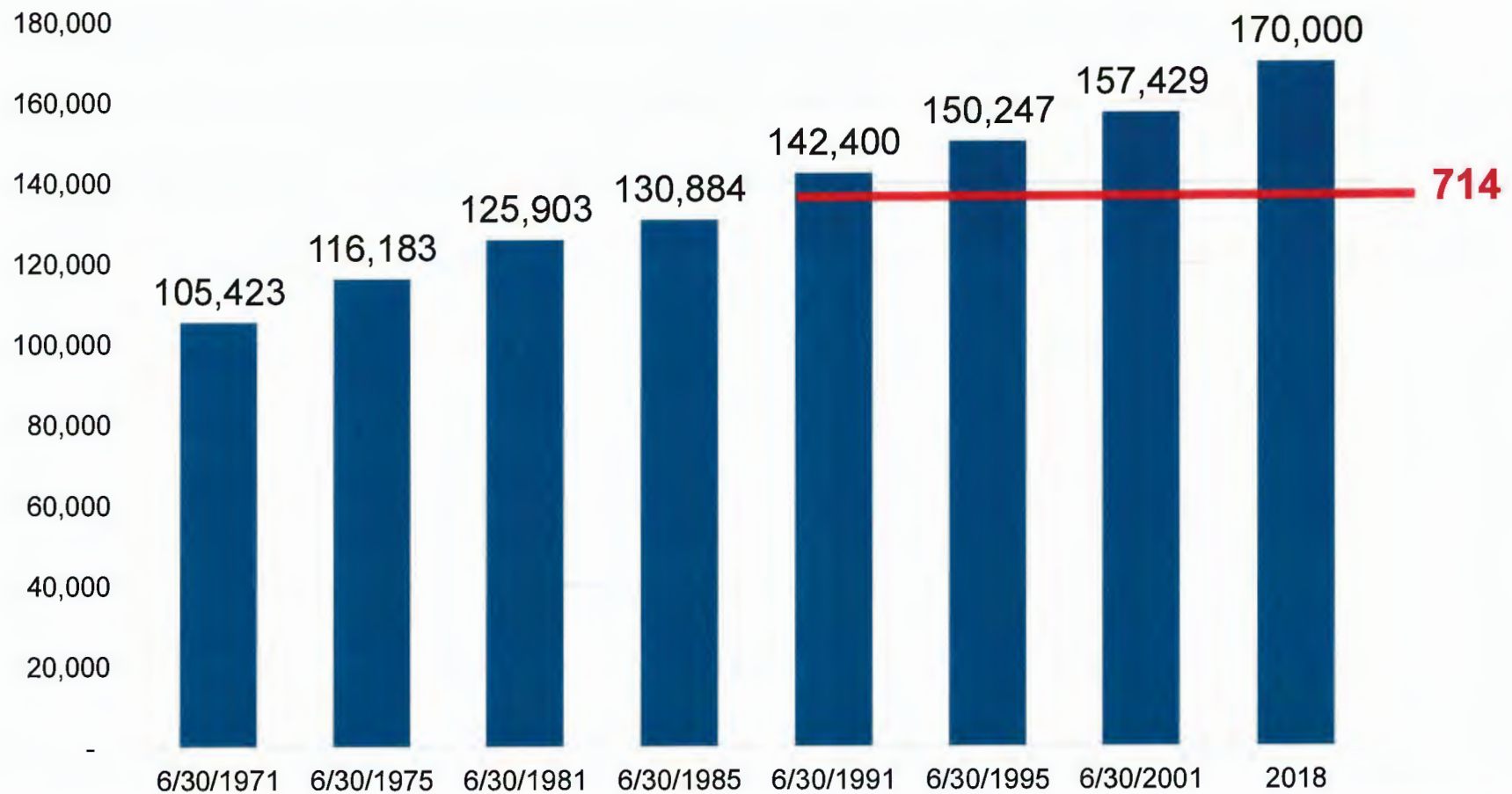
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Board of Water Supply
City and County of Honolulu

Number of Services



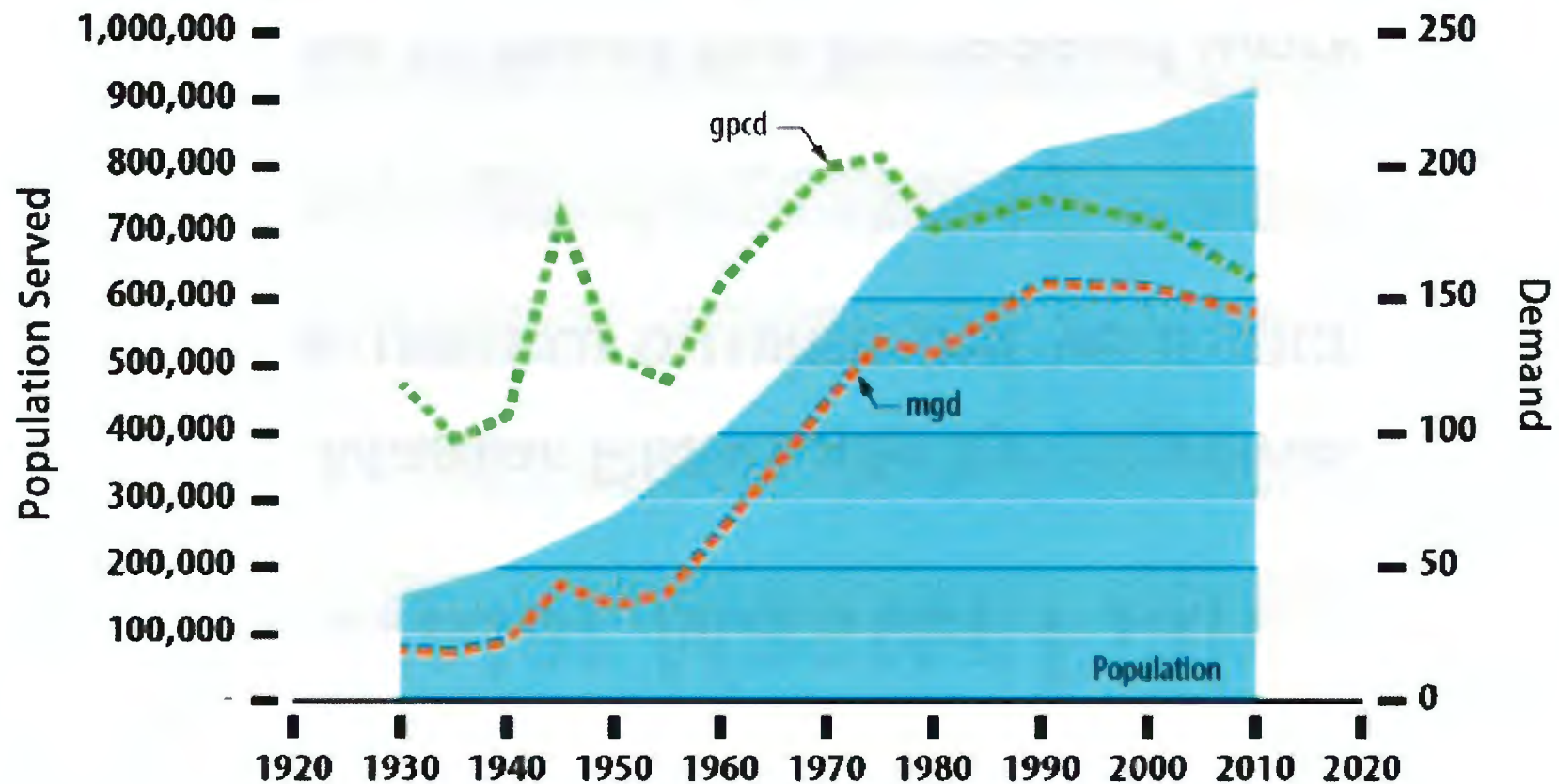
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City and County of Honolulu

Water Demand





Water Master Plan

- Water Master Plan calls for pipeline replacement of 6 miles per year increased to 21 miles per year
- Staffing in Capital Projects Division must increase to meet the increased workload
- Support staffing in BWS must also increase to meet demands





Current Vacancy Levels

Division/Section	Gross Vacancies	In Process	Net Vacancies
Customer Care	14	10	4
Communications	1	1	-
Capital Projects	16	16	-
Executive Support	5	4	1
Finance	8	7	1
Field Operations	86	75	11
Human Resources	2	2	-
Information Technology	16	14	2
Water Quality	2	2	-
Water Resources	6	3	3
Water System Operations	25	17	8
Total	181	151	30





Why Does Hiring Take So Long?

- Creating new job classes is lengthy as they have statewide impact
- Reorganizations and changes to job classes are complex and require long lead times
- Water Systems Operations and Field Operations Divisions are subject to journey to apprentice ratios that affect recruitment



Current Vacancy Challenges

- Difficulty in attracting recruits due to record low unemployment, salary competition and reduced benefits
- Engineering and Information Technology positions remain difficult to fill
 - Engineers III, IV, V; and
 - Data Processing System Analysts



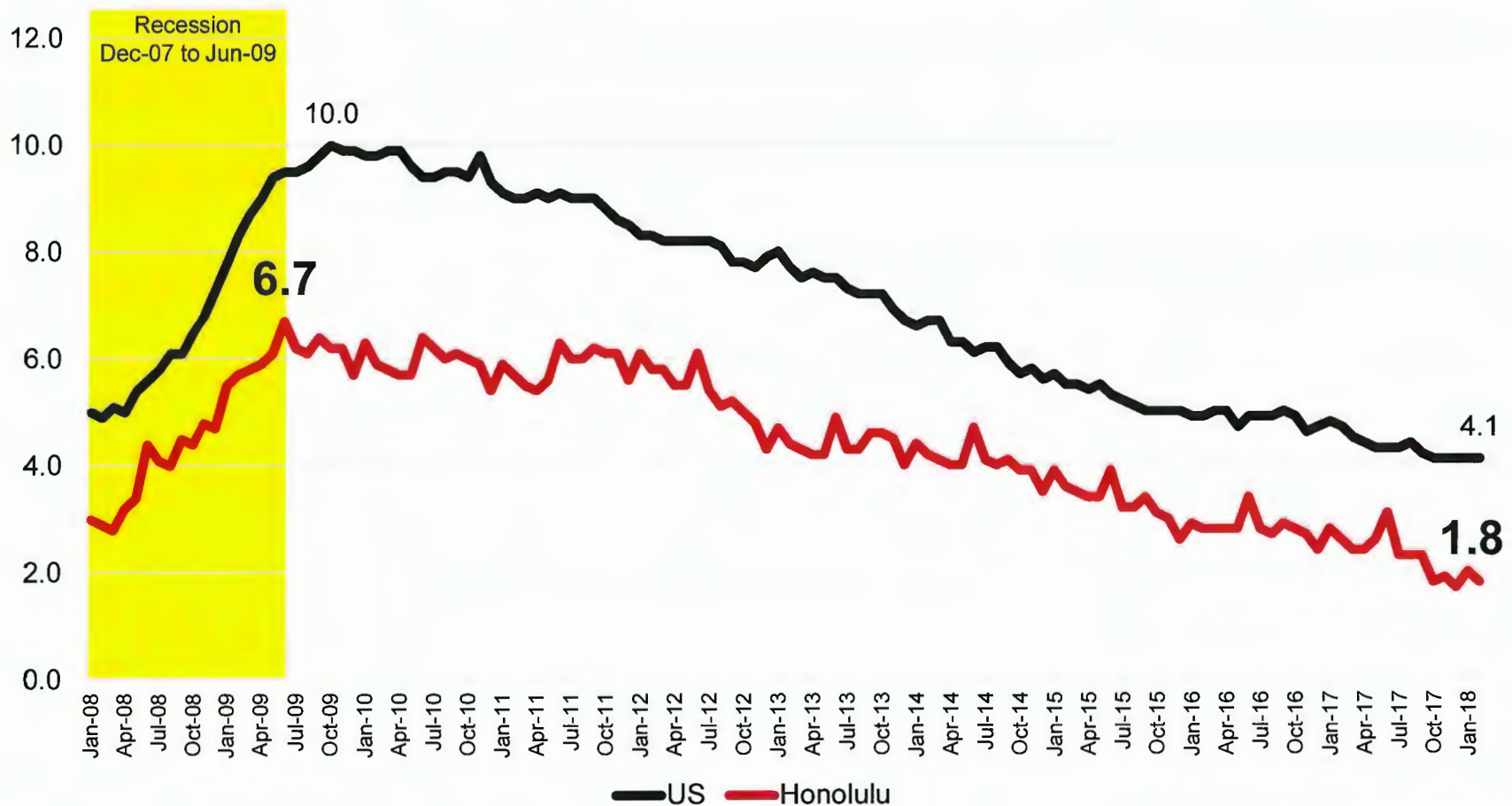
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City and County of Honolulu

Unemployment Rate



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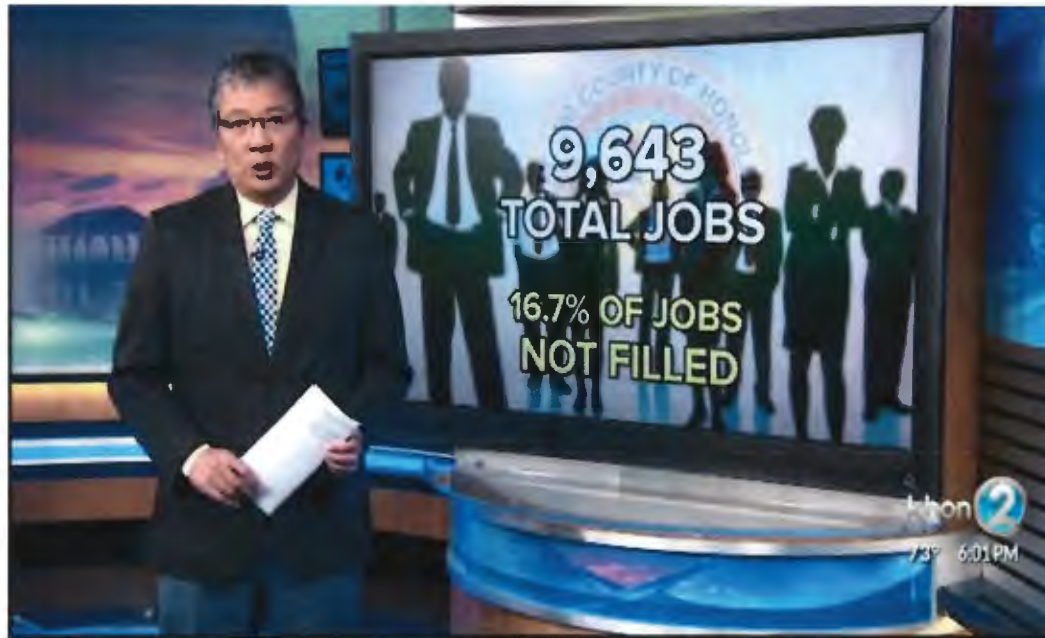
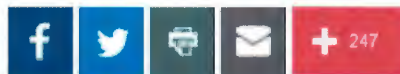


Board of Water Supply
City and County of Honolulu

City struggles to keep qualified workers on staff

By: Manolo Morales

Updated Mar 13, 2018 06:14 PM HST



HONOLULU (KHON2) - The city is struggling to find qualified workers, and Honolulu's mayor says it's enough to drive him crazy.

Near-record-low unemployment makes hiring a challenge for all businesses, and the mayor says the city needs to do a better job of recruiting.



Business

Will There Be Enough Workers For Hawaii's Hot Economy?

Low unemployment, a stagnant population and out-of-sight living costs create major recruiting challenges.

By Stewart Yerton / About 9 hours ago



When Whole Foods opened its 72,000-square foot, two-story food emporium in Kakaako last week, it brought its typical array of organic apples, artisanal cheeses and quinoa sold in bulk. There are two restaurant spaces with two dozen beers on tap.

And, perhaps most important for the local economy, the new store brought 300 new jobs. And it needs help.

After the store's opening last Wednesday, the Amazon subsidiary still had more than a dozen [jobs postings](#) at the new store, including jobs for a maintenance worker, dishwasher and cook as well as a [store support supervisor](#).

It's a sign of the times in Hawaii, especially in the food service and hotel industries.



New Positions in FY 2019

Division	Position	Count	Status
Executive Support Office			
	Procurement and Specifications Specialist IV	1	Permanent
	Planner IV	1	Permanent
	Security Officer I	1	Permanent
	Administrative Services Officer II	1	Permanent
Human Resources			
	Senior Clerk-Typist	1	Permanent
Communications			
	Community Relations Specialist II	1	Permanent
Customer Care			
	Senior Clerk-Typist	1	Permanent
	Customer Service Representative II	1	Permanent
	Customer Relations Assistant	1	Permanent

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City and County of Honolulu

New Positions in FY 2019

Division	Position	Count	Status
Capital Projects			
	Mechanical Engineer I	1	Permanent
Finance			
	Water Data Collection Clerk I	9	LTA
	Water Data Collection Clerk I	5	Permanent
Information Technology			
	Data Processing Systems Analyst II	1	Permanent
	Data Processing Systems Analyst I	1	Permanent
	Radio Engineer	1	Permanent
		27	





Added Capital Project Positions

FY	Section	Position
2018	Construction	Civil Engineer III
2018	Construction	Civil Engineer IV
2018	Construction	Construction Inspector Aide
2018	Construction	Construction Inspector Aide
2018	Construction	Industrial Construction Inspector
2018	Construction	Industrial Construction Inspector
2018	Design & Plans Review	Civil Engineer I
2018	Design & Plans Review	Civil Engineer I
2018	Design & Plans Review	Civil Engineer I
2018	Mechanical and Electrical	Electrical Engineer IV
2018	Mechanical and Electrical	Mechanical Engineer IV
2018	Support	Engineering Support Technician I
2018	Support	Engineering Support Technician I
2019	Mechanical and Electrical	Mechanical Engineer IV
	14 FTE	

Positions Changes in FY 2019

- +18 permanent positions
- +9 limited term positions
- Reduction of 22 personal services contracts
- **First requested increase in authorized position count since FY 1992**
- Total authorized position count from 714 to 732 Permanent and 9 Limited Term



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Board of Water Supply
City and County of Honolulu



FY 2019 Capital Improvement Program Budget



FY 2019 CIP

- Supports the BWS mission of **Water For Life: Safe, dependable and affordable water now and into the future**
- Aligned with the BWS Strategic Plan 2018-2022, Divisions' Goals & Objectives and the Six-Year Capital Improvement Program





Project Categories

Research and Development

Renewal and Replacement

Capacity Expansion

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Board of Water Supply
City and County of Honolulu

Capital Improvement Program Budget FY 2019

	Categories	Operating Fund	Operating Fund (SRF Eligible)	Special Expendable Fund	Total
I.	Research & Development	\$ 4,400,000			\$ 4,400,000
II.	Renewal & Replacement	84,615,000	7,470,000		92,085,000
III.	Capacity Expansion	5,200,000		18,170,000	23,370,000
	Sub-Total	94,215,000	7,470,000	18,170,000	119,855,000
	Adjustment	16,142,000	747,000	1,717,000	18,606,000
	Total	\$ 110,357,000	\$ 8,217,000	\$ 19,887,000	\$ 138,461,000



● DESIGN

● CONSTRUCTION

1. Kunia Wells III
2. Waipio Heights Wells and Wells I
3. Waiatae Iki 180 Reservoir Repairs
4. Waimanalo 230 Reservoir Repairs
5. Ala Aolani 12-Inch Water Main
6. Puhawai Road, Kuwale Road And Puuhulu Road Water System Improvements
7. Lanakila Water System Improvements
8. Lunalilo Home Road Water System Improvements
9. Pensacola Street 8-Inch Main, Kinau Street to Young Street
10. Pacific Heights Water System Improvements, Part II
11. Waiolu Water System Improvements, Part II
12. Rehabilitation of Pipeline and Tunnel: Makapuu Tunnel
13. Installation of Fire Hydrants at Various Locations in Kailua
14. Installation of Fire Hydrants at Various Locations, Part C
15. School Street Box Drain Repair
16. Service Lateral Replacement at Various Locations
17. Kuaheha Street Water System Improvements, Waiolalo Road to 2373 Kuaheha Street
18. Farrington Highway 24-Inch Main Rehabilitation
19. Water System Improvements at Various Locations in Manoa
20. Kamehameha Highway 16-Inch Main Relocation, Hauula Homestead Road Vicinity
21. Farrington Highway Water System Improvements, Waiolu Depot Road Vicinity
22. Kamehameha Highway Water System Improvements, Pupukea Road Vicinity
23. Kilihaui Street, Ahua Street and Kakaia Street 12-Inch and 8-Inch Mains
24. Paleka Road and Waiakua Road Area Water System Improvements
25. Maillili Road 20-Inch Main, Paakaa Road to Luualaei Homestead Road
26. Kailua Place and Aiea Heights Drive Area Water System Improvements
27. Aliipoe Drive and Palihua Street Area Water System Improvements
28. Keana Road Area Water System Improvements
29. Paliko Drive 8-Inch Main
30. Waipio Place and Waimomona Place Water System Improvements
31. Waiakua Road Water System Improvements
32. Kaneohe Bay Drive and Kamehameha Highway Water System Improvements
33. Farrington Highway Water System Improvements, Hookahua Street Vicinity
34. Service Lateral Replacement at Various Locations
35. Security Fencing at Diamond Head 180 Reservoir
36. Nuuanu Reservoir No. 1 Dam Improvements
37. Beretania Complex Electrical Survey
38. Kalaehewa 180 2.0 MG Reservoir
39. Ala Moana Boulevard 24-Inch Main, Ala Wai Canal to Kalakaua Avenue
40. Kapolei Base Yard and Brackish Water Desalination Facility
41. Beretania Complex Office Building and Parking Structure

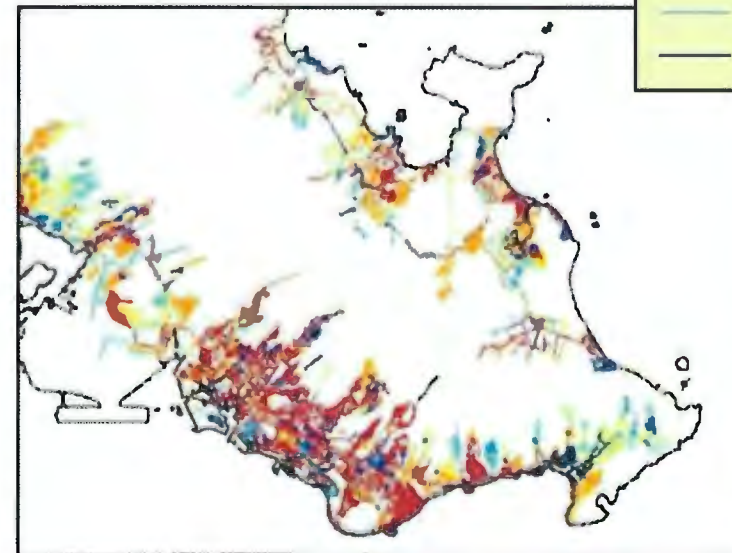




Project Category Highlights

Research and Development (\$4.4 million)

- Construction Management for Various BWS Construction Projects
- Project and Program Management for Various BWS Projects
- Pipeline Condition Assessment



Legend

INSTALL YEAR

- 1903 - 1955
- 1956 - 1965
- 1966 - 1975
- 1976 - 1985
- 1986 - 1995
- 1996 - 2005



Project Category Highlights

Renewal and Replacement (\$92.1 million)

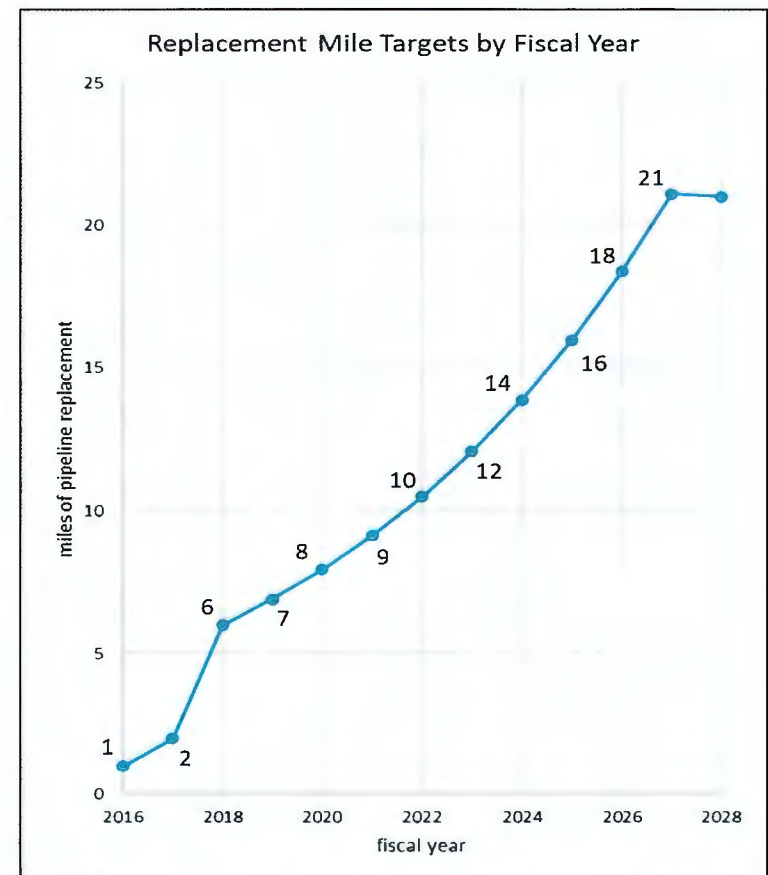
- Pump Renewal and Replacement
- Reservoir repairs
- GAC Facility Improvements
- Water Meter Transponders Replacement – Phase II
- Security Improvements at Various Locations



Project Category Highlights

Renewal and Replacement (continued)

- Main replacement construction in Waianae, Moanalua Valley, Pacific Heights, Lanakila and Hawaii Kai – **7 miles**
- Main replacement design will be initiated in various location including Pupukea, Waipahu, Waiau, Kaneohe, Manoa and Palolo – **18.5 miles**

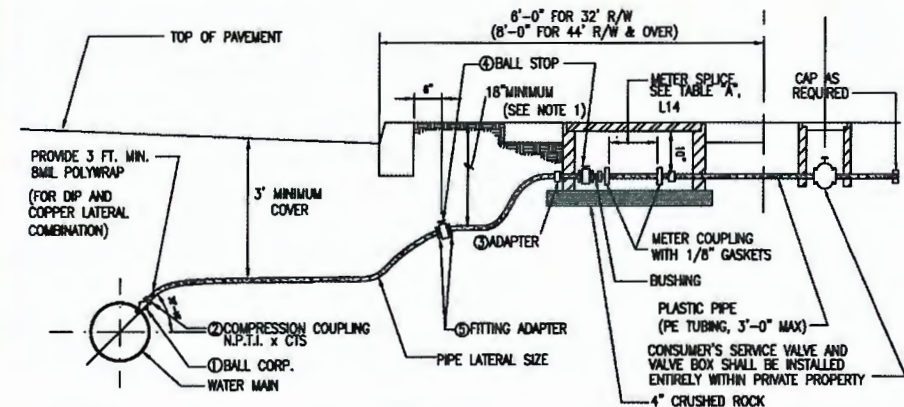




Project Category Highlights

Renewal and Replacement (continued)

- Fire hydrant installations in Kailua
- Makapuu Pipeline Tunnel repair
- Service lateral replacements





Project Category Highlights

Capacity Expansion (\$23.4 million)

- Kalawahine 180 2.0 MG Reservoir
- Ala Moana Boulevard 24-inch Main upsized
- Kapolei Base Yard
- Beretania Complex Office Building/Parking Structure





Office Space Planning

- Beretania Complex office building
- Space standards and optimization
- Master plan for BWS facilities
- Leased space
- Engineering Building modernization
- Public Service Building modernization
- Beretania Complex redevelopment

WATER FOR LIFE

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



Board of Water Supply
City and County of Honolulu

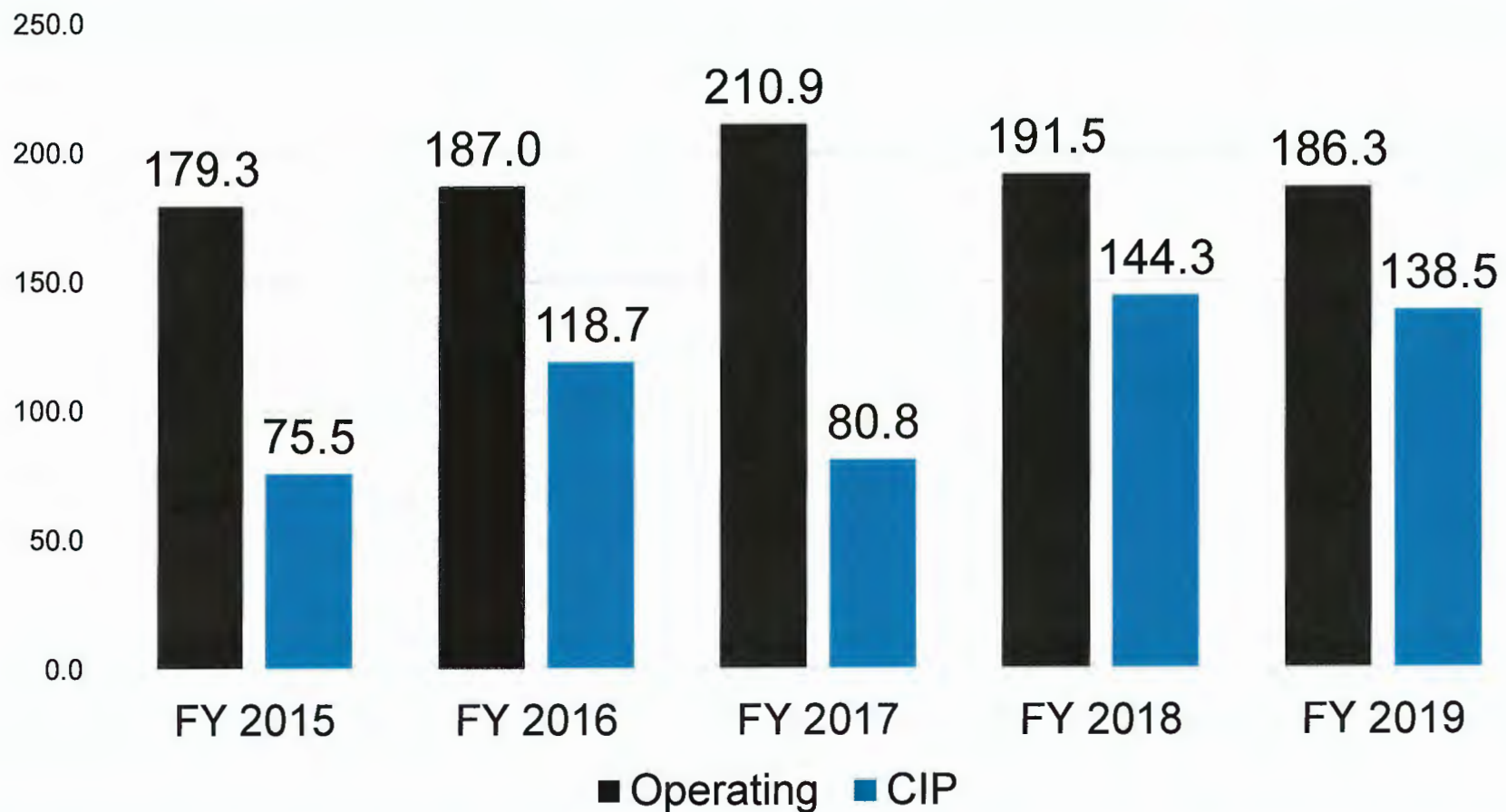
**Water Service
Adequacy and Dependability**

**Infrastructure Costs
Rate Affordability**





Operating & CIP Budget (millions of dollars)



WATER FOR LIFE

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



Board of Water Supply
City and County of Honolulu

FY 2019 Operating and Capital Improvement Program Budget Summary

	FY 2018 – Adopted	FY 2019 – Proposed	\$ Change	% Change
Operating Budget	\$191,468,692	\$186,320,999	- \$5,147,693	- 2.7%
Capital Improvement Program Budget	\$144,340,200	\$138,461,000	- \$5,879,200	- 4.1%
Total	\$335,808,892	\$324,781,999	- \$11,026,893	- 3.3%



Questions?



BOARD OF WATER SUPPLY

City and County of Honolulu
Honolulu, Hawaii



2019 BUDGET

For the Fiscal Year Beginning July 1, 2018 and
Ending June 30, 2019

**BOARD OF WATER SUPPLY
City and County of Honolulu**

**OPERATING AND CAPITAL IMPROVEMENT PROGRAM BUDGET
For the Fiscal Year Beginning July 1, 2018 and Ending June 30, 2019**

BOARD MEMBERS

Bryan P. Andaya, Chair

Kapua Sproat, Vice-Chair

David C. Hulihee, Member


Kay C. Matsui, Member

Ray C. Soon, Member

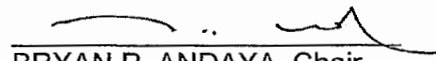
Ross S. Sasamura, Ex-Officio

Jade T. Butay, Ex-Officio

SUBMITTED BY:


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

APPROVED:


BRYAN P. ANDAYA, Chair
May 29, 2018

May 29, 2018

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

Chair and Members:

In accordance with Section 7-106(i), Revised Charter of the City and County of Honolulu, we submit for your review and approval the proposed Operating and Capital Improvement Program Budget for fiscal year July 1, 2018 to June 30, 2019.

FINANCIAL PLAN

The proposed Operating Budget for FY 2019 is based upon total operating fund resources of \$337.5 million, to be derived from operating revenues of \$239.2 million and an estimated carryover balance from FY 2018 of \$98.3 million. The carryover balance results from the estimated operating fund balance that is unappropriated. The unappropriated fund balance is composed of a minimum fund reserve required to maintain its recommended debt service coverage of \$34.7 million, working capital amount of \$30.5 million, and an unreserved fund balance of \$33.1 million. The proposed operating fund expenditure allocations are \$185.8 million for operating expenses; \$118.6 million for the Capital Improvement Program (CIP) Budget and a \$500 thousand fund transfer from the Operating Fund to the Special Expendable Fund. This transfer is to reimburse the Special Expendable Fund for water system facilities charges that will be waived under the City & County of Honolulu Affordable Housing Program. A projected ending balance of \$32.6 million will be unappropriated.

The proposed CIP budget totals \$138.5 million and is funded by \$118.6 million from the Operating Fund and \$19.9 million from the Special Expendable Fund. Of the \$118.6 million in Operating Funds proposed for the CIP, \$8.2 million is eligible for participation in the State of Hawaii, Department of Health State Revolving Fund (SRF) loan program. The SRF loan program currently offers zero interest rate loans and low administrative fees.

PART I. OPERATING BUDGET

Following are summaries of the proposed revenues and expenditures for the next fiscal year as well as the corresponding figures for the preceding two fiscal years.

A. REVENUES

For FY 2019, we are projecting total revenues of \$239.2 million; which is \$2.8 million or 1.2 percent more than total revenues budgeted for FY 2018. No water rate increases are programmed for FY 2019 and the 1.2 percent increase in revenue is due to increasing trend in metered sales revenue.

<u>Revenue Sources</u>	<u>FY 2017 Actual</u>	<u>FY 2018 Budgeted</u>	<u>FY 2019 Budgeted</u>	<u>Percent Change FY 2019 Over FY 2018</u>
Metered Sales:				
Potable and Non-Potable Water	222,520,517	225,000,000	226,600,000	0.7%
Recycled Water	5,877,795	5,809,500	6,011,800	3.5%
Other Revenues	<u>6,987,032</u>	<u>5,650,000</u>	<u>6,623,900</u>	<u>17.2%</u>
Total Revenues	<u>235,385,344</u>	<u>236,459,500</u>	<u>239,235,700</u>	<u>1.2%</u>

Metered Sales – Potable Water and Non-Potable

Potable and non-potable water sales are projected to increase by \$1.6 million 0.7 percent over the FY 2018 budget amount to \$226.6 million. This increase is primarily due to an increasing trend in potable water consumption due to population growth, current billing trends and a conservative revenue estimate in the FY 2019 budget.

Metered Sales – Recycled Water

Recycled water sales at \$6 million are projected to increase by 3.5 percent when compared to the FY 2018 budgeted amounts due to projected increased usage.

Other Revenues

Other Revenues of \$6.6 million will be \$884 thousand higher than the FY 2018 budget amount due to an anticipated increase in interest income of \$799 thousand. Interest income is interest revenue earned on the Board's investments. Other Revenues category is comprised of sources such as interest income on investments, ocean cooling revenues, automatic fire sprinkler charges, rental income, and miscellaneous billing charges.

B. EXPENDITURES

The proposed total operating fund expenditures for FY 2019 are budgeted at \$304.9 million. This represents a decrease of \$6.5 million, or 2.1 percent less than the amount budgeted for the current fiscal year. This change is primarily attributable to a decrease in funding for the department's debt service of \$9.9 million and a decrease in funding the Capital Improvement Program of \$1.4 million. These decreases are offset by an increase in funding for personnel services of \$2.8 million; an increase in funding for materials, supplies and services of \$1.9 million and an appropriation of \$500 thousand is being programmed to reimburse the Special Expendable Fund for water system facilities charges that potentially will be waived under the C&C of Honolulu's Affordable Housing Program.

Highlights of the proposed Operating Budget for FY 2019 are presented following the next table.

Summary of Proposed Operating Budget, by Major Cost Categories

<u>Major Cost Category</u>	FY 2017 Actual	FY 2018 Budgeted	FY 2019 Budgeted	<u>FY 2019 Over FY 2018</u>	
				Amount	Percent
Personnel Services	37,426,539	46,116,429	48,939,682	2,823,253	6.1%
Materials, Supplies & Services	44,513,644	60,109,943	62,012,586	1,902,643	3.2%
Equipment	4,079,737	5,428,320	5,364,774	(63,546)	-1.2%
Debt Service	36,590,833	31,648,000	21,657,000	(9,991,000)	-31.6%
Fixed Charges	46,462,744	48,166,000	47,846,957	(319,043)	-0.7%
Total Operating Expenditures	169,073,497	191,468,692	185,820,999	(5,647,693)	-2.9%
Transfer to the Special Expendable Fund - C&C of Honolulu - Affordable Housing Program (WSFC waivers)	-	-	500,000	500,000	100.0%
Transfer to CIP	74,396,800	119,967,900	118,574,000	(1,393,900)	-1.2%
Total Expenditures	243,470,297	311,436,592	304,894,999	(6,541,593)	-2.1%

Personnel Services

The proposed personnel services budget of \$48.9 million is \$2.8 million or 6.1 percent more than personnel services budgeted for the current year. For Fiscal Year 2019, we are proposing to increase the departmental staffing level from 714 to 741 permanent positions. The 27 new positions proposed are:

- (1) Procurement and Specifications Specialist IV
- (1) Planner IV
- (1) Security Officer I
- (1) Administrative Services Officer II
- (1) Senior Clerk-Typist
- (1) Community Relations Specialist II
- (1) Senior Clerk-Typist
- (1) Customer Service Representative II
- (1) Customer Relations Assistant
- (1) Mechanical Engineer I
- (14) Water Data Collection Clerk I
- (1) Data Processing Systems Analyst II
- (1) Data Processing Systems Analyst I
- (1) Radio Engineer

Of the proposed positions, nine of the fourteen Water Data Collection Clerk I positions (formerly known as Meter Reader I) will be filled on a limited term appointment.

Materials, Supplies and Services (MS&S)

The proposed MS&S budget of \$62.0 million is \$1.9 million or 3.2 percent more than the expenditures budgeted for the current year. This is primarily due to an increase in funding for water quality and treatment studies of \$1.8 million; an increase in funding for emergency road repairs of \$1.0 million and an increase in funding for IT initiatives and system upgrades of \$1.7 million. These increases are offset by decreases for the funding for the purchase of meters of \$1.2 million and decreases in funding for security camera maintenance and setup of \$1.5 million.

Equipment

The proposed equipment budget of \$5.4 million is \$63 thousand or 1.2 percent less than the amount budgeted in FY 2018. This change is due to a decreased number of replacements and additions to the BWS vehicle and equipment fleet. Fleet replacements are based on a criterion of age and mileage in order to minimize future maintenance costs.

Debt Service

The total debt service requirement for FY 2019 is \$21.7 million, which is \$10 million or 31.6 percent less than the amount budgeted in FY 2018. In FY 2018, an additional \$9.8 million of SRF loans was retired.

Fixed Charges

The proposed fixed charges budget of \$47.8 million is \$319 thousand, or 0.7 percent less than the amount budgeted for FY 2018. This decrease of \$819 thousand is due to fewer funds budgeted for contributions to the State of Hawaii EUTF OPEB account and decreases in funding of \$800 thousand to the State ERS plan. These decreases are offset by an increase of \$1.2 million for electricity costs to power the department's pumping stations, reservoirs and facilities.

PART II. CAPITAL IMPROVEMENT PROGRAM (CIP) BUDGET

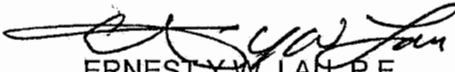
A CIP budget of \$138.5 million is proposed for FY 2019 to be funded as follows: Operating Fund -- \$118.6 million and the Special Expendable Fund -- \$19.9 million. Of the \$118.6 million in CIP projects that will be funded through the Operating Fund; \$8.2 million is eligible for participation in the State Department of Health's State Revolving Fund (SRF) loan program. The SRF loan program currently offers zero interest rate loans with low administrative fees.

Highlights of the proposed CIP for next year includes \$4.4 million for research and development, \$92.1 million for the renewal and replacement of various BWS pipelines, facilities and pumping stations, and \$23.4 million for capacity expansion.

Chair and Members
Board of Water Supply
May 29, 2018
Page 7

The CIP cost categories and project descriptions are summarized starting on page CIP-1.

Respectfully submitted,



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



SUMMARY OF ALL FUNDS

OPERATING BUDGET

**CAPITAL IMPROVEMENT
PROGRAM BUDGET**

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Board of Water Supply
Summary of All Funds
Fiscal Year 2019

	Operating Fund	Operating Fund - SRF Eligible	Special Expendable Fund	Total All Funds by Program
Operating Budget	186,320,999	-	-	186,320,999
Capital Improvement Program	<u>110,357,000</u>	<u>8,217,000</u>	<u>19,887,000</u>	<u>138,461,000</u>
Total by Fund	<u><u>296,677,999</u></u>	<u><u>8,217,000</u></u>	<u><u>19,887,000</u></u>	<u><u>324,781,999</u></u>

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**BOARD OF WATER SUPPLY
OPERATING AND CAPITAL IMPROVEMENT PROGRAM BUDGET
FISCAL YEAR 2019
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II. CAPITAL IMPROVEMENT PROGRAM (CIP) BUDGET

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**Board of Water Supply
Operating Budget
Fiscal Year 2019**

Department Summary

Resources and Expenditures	FY2017 Actual	FY2018 Adopted Budget	FY2019 Proposed Budget
Beginning Balance	115,118,476	107,722,490	98,274,731
Revenues	235,385,344	236,549,500	239,235,700
Lapses/Adjustments	13,711,773	0	0
Total Resources	364,215,593	344,271,990	337,510,431
Operating Expenditures	169,073,497	191,468,692	185,820,999
Capital Program	74,396,800	119,967,900	118,574,000
Transfer to Special Expendable Fund	0	0	500,000
Total Expenditures	243,470,297	311,436,592	304,894,999
Ending Balance	120,745,296	32,835,398	32,615,432

Board of Water Supply
Operating Budget Revenues
Fiscal Year 2019

Department Summary

Revenues	FY2017 Actual	FY2018 Adopted Budget	FY2019 Proposed Budget
Metered Revenue - Potable Water	222,520,517	225,000,000	226,600,000
Metered Revenue - Recycled Water (R-1)	3,268,746	3,288,700	3,255,000
Metered Revenue - Recycled Water (RO)	2,609,049	2,520,800	2,756,800
Private Fire Protection	912,292	700,000	775,000
Ocean Cooling Revenues	1,275,079	1,200,000	1,200,000
Other Water Revenues	284,481	375,000	320,000
Revenues from Water Service Installations	596,406	550,000	550,000
Revenues from Merchandising & Jobbing (M&J)	291,079	200,000	280,000
Interest Income - Operating	3,359,672	2,400,000	3,198,900
Miscellaneous Non-Operating Revenue	103,901	125,000	120,000
Non-Operating Rental Income	164,120	190,000	180,000
Total	235,385,344	236,549,500	239,235,700

Board of Water Supply
Operating Budget Expenditures
Fiscal Year 2019

Department Summary

Expenditure Classification	FY2017 Actual	FY2018 Adopted Budget	FY2019 Proposed Budget
Personnel Services	37,426,539	46,116,429	48,939,682
Materials, Supplies and Services	44,513,644	60,109,943	62,012,586
Equipment	4,079,737	5,428,320	5,364,774
Departmental Fixed Charges	46,462,744	48,166,000	47,846,957
Debt Service	36,590,833	31,648,000	21,657,000
Operating Expenditures	169,073,497	191,468,692	185,820,999
Transfer to Capital Improvement Program	74,396,800	119,967,900	118,574,000
Transfer to Special Expendable Fund	0	0	500,000
Total Expenditures	243,470,297	311,436,592	304,894,999

**Board of Water Supply
Operating Budget Expenditures
Fiscal Year 2019**

Department Summary by Division/Office

Expenditure Classification (Personnel Services, Materials, Supplies and Services, and Equipment)	FY2017 Actual	FY2018 Adopted Budget	FY2019 Proposed Budget
Manager's Office	714,947	925,640	878,960
Executive Support Office	6,869,406	8,981,021	7,596,660
Communications Office	968,930	1,158,310	1,414,284
Ocean Cooling	305,326	618,800	610,800
Human Resources Office	776,740	703,795	776,750
Water Quality	3,940,346	5,707,580	7,593,590
Customer Care	4,082,577	6,162,000	6,407,445
Land	504,736	737,900	853,100
Water Resources	9,515,512	11,796,008	11,122,191
Field Operations	22,301,635	30,966,630	31,643,665
Capital Projects	5,343,785	6,640,700	7,350,000
Water System Operations	14,442,064	19,005,450	18,071,550
Information Technology	12,009,967	13,174,018	16,220,427
Finance	4,233,597	5,076,840	5,777,620
Total of Divisions and Offices	86,009,568	111,654,692	116,317,042
Materials, Supplies and Services	13,300	0	0
Departmental Fixed Charges	46,459,796	48,166,000	47,846,957
Debt Service	36,590,833	31,648,000	21,657,000
Total Operating Expenditures	169,073,497	191,468,692	185,820,999

**Board of Water Supply
Expenses by Account Type
Fiscal Year 2019**

Department Summary by Division/Office

Division and Offices	Personnel Services	Materials, Supplies, and Services	Equipment	Debt Service and Dept Fixed Charges	FY2019 Proposed Budget
Manager's Office	540,400	338,560	0	0	878,960
Executive Support Office	1,513,550	6,063,110	20,000	0	7,596,660
Communications Office	900,403	483,607	30,274	0	1,414,284
Ocean Cooling	220,000	390,800	0	0	610,800
Human Resources Office	589,600	152,150	35,000	0	776,750
Water Quality	1,601,000	5,942,590	50,000	0	7,593,590
Customer Care	5,040,100	1,004,345	363,000	0	6,407,445
Land	321,400	491,700	40,000	0	853,100
Water Resources	2,477,239	8,559,952	85,000	0	11,122,191
Field Operations	15,759,700	15,783,965	100,000	0	31,643,665
Capital Projects	6,215,100	1,021,900	113,000	0	7,350,000
Water System Operations	6,745,300	7,204,750	4,121,500	0	18,071,550
Information Technology	3,859,800	11,989,627	371,000	0	16,220,427
Finance	3,156,090	2,585,530	36,000	0	5,777,620
Total:	48,939,682	62,012,586	5,364,774	0	116,317,042
Fixed Charges and Debt Service	0	0	0	69,503,957	69,503,957
Grand Total	48,939,682	62,012,586	5,364,774	69,503,957	185,820,999

**Board of Water Supply
Position Budgets
Fiscal Year 2019**

Department Summary by Division/Office

Division Name	Positions					Salary				
	Perm	EMP	LTA	PSC	Total	Perm	EMP	LTA	PSC	Total
Manager's Office	5	0	0	1	6	540,417	0	0	0	540,417
Executive Support Office	22	0	0	7	29	1,249,621	0	0	160,098	1,409,719
Communications Office	12	0	0	1	13	792,143	0	0	4,180	796,323
Ocean Cooling	0	1	0	0	1	0	220,008	0	0	220,008
Human Resources Office	11	0	0	0	11	584,565	0	0	0	584,565
Water Quality	22	0	0	5	27	1,326,895	0	0	129,279	1,456,174
Customer Care	79	0	0	22	101	3,880,874	0	0	532,848	4,413,722
Land	5	0	0	0	5	302,322	0	0	0	302,322
Water Resources	35	0	0	1	36	2,329,524	0	0	44,124	2,373,648
Field Operations	251	0	0	14	265	12,312,875	0	0	614,351	12,927,226
Capital Projects	80	0	0	3	83	5,510,957	0	0	0	5,510,957
Water System Operations	97	0	0	9	106	5,551,541	0	0	402,499	5,954,041
Information Technology	53	0	0	6	59	3,580,386	0	0	48,948	3,629,334
Finance	44	0	9	0	53	2,427,454	0	353,388	0	2,780,842
Total	716	1	9	69	795	40,389,574	220,008	353,388	1,936,327	42,899,297

Board of Water Supply
Operating Budget - Debt Service
Fiscal Year 2019

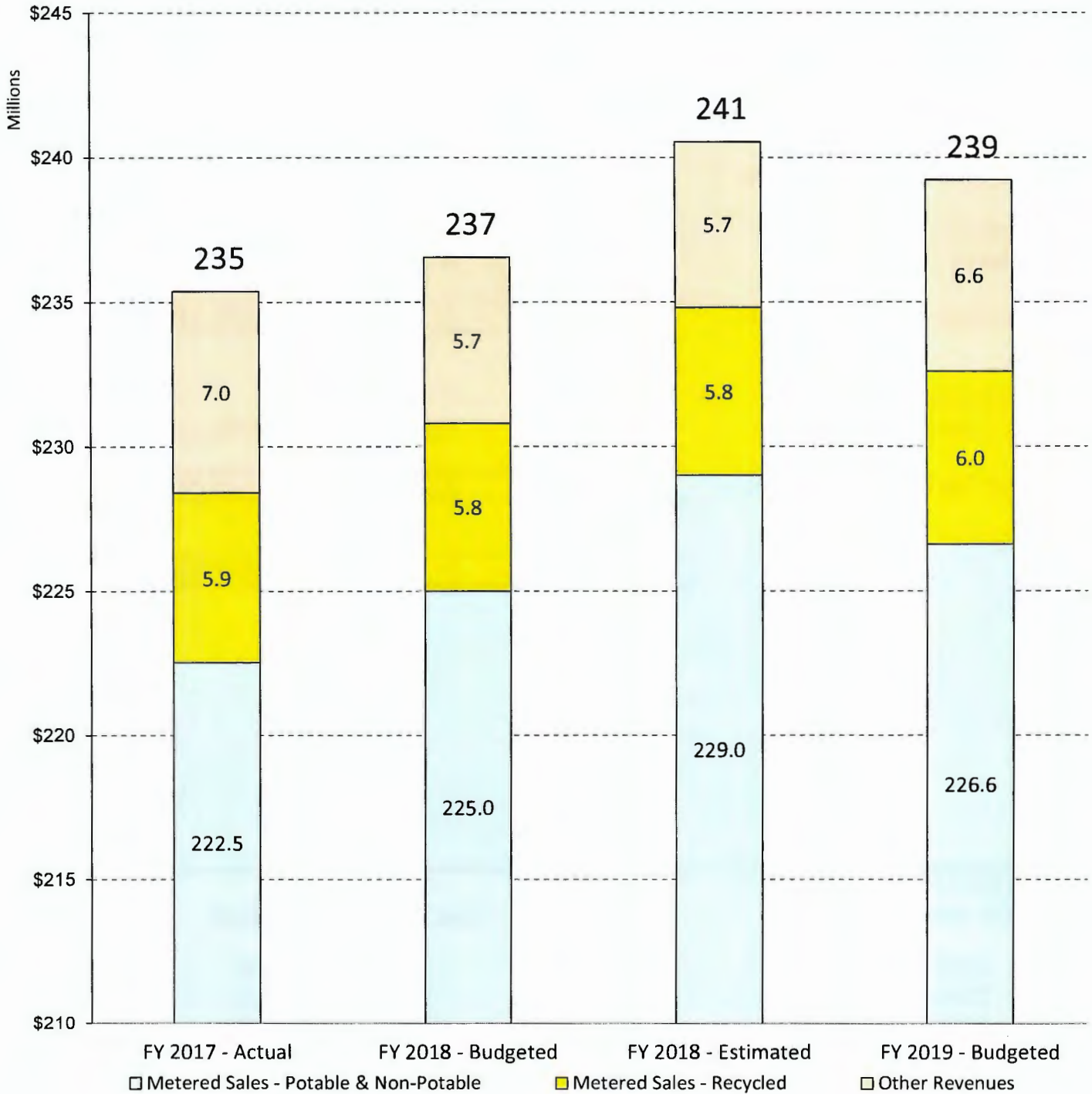
DEBT SERVICE

ISSUE	FY 2017 Actual	FY 2018 Budget	FY 2019 Budget
Water System Revenue Bonds:			
Series 2012A	4,747,000	7,708,000	7,730,000
Series 2014 A & B	13,041,000	10,137,000	10,147,000
Debt Service - Bonds Payable	17,788,000	17,845,000	17,877,000
Notes Payable:			
SRF Loans	18,803,763	13,803,000	3,780,000
Debt Service - Notes Payable	18,803,763	13,803,000	3,780,000
	36,591,763	31,648,000	21,657,000

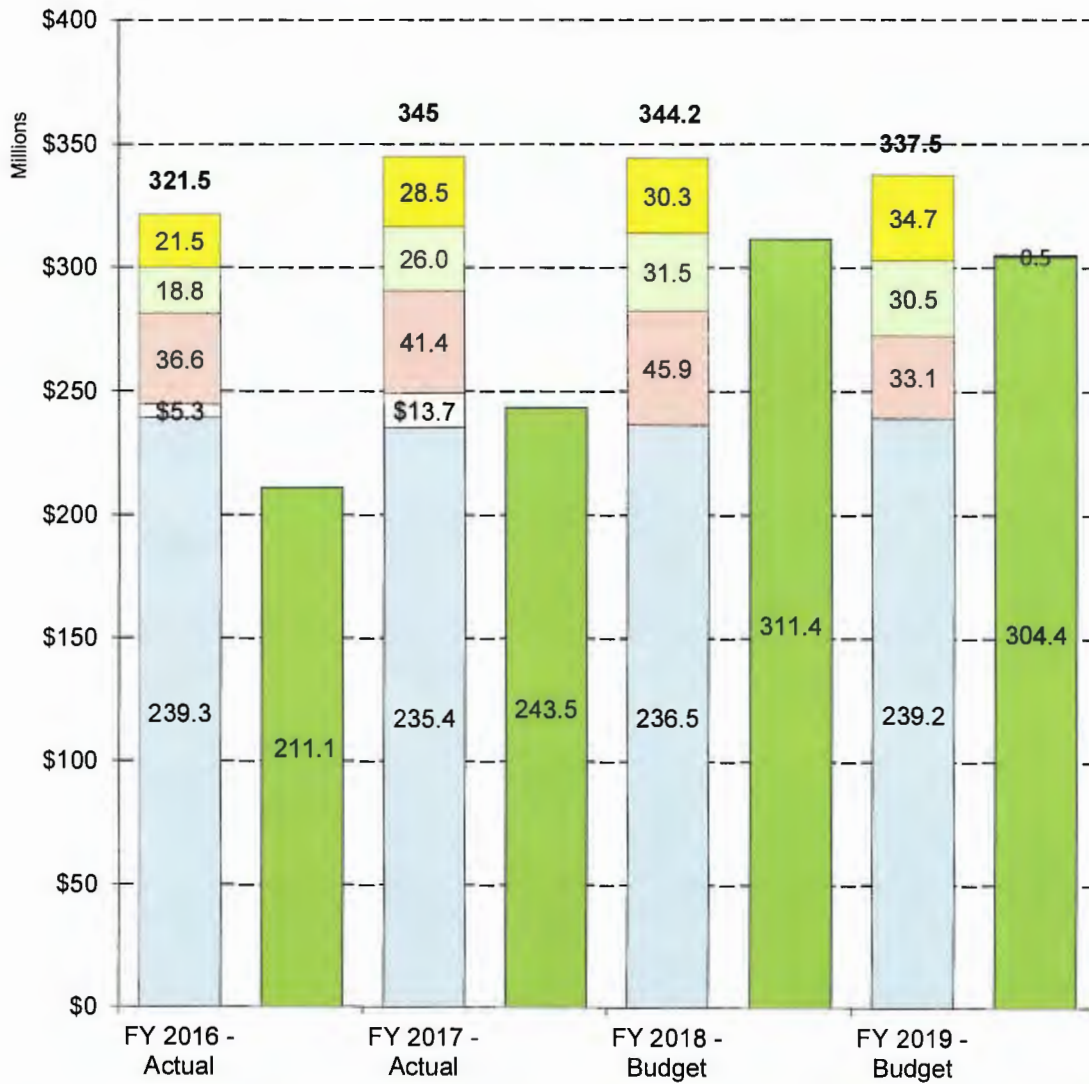
Bond Issues:

<u>Year Issued</u>	<u>Amount</u>	<u>Year Expires</u>	<u>Years</u>
2006	\$ 213,805,000	2036	30
2012A	\$ 85,195,000	2033	21
2014A	\$ 101,655,000	2036	22
2014B	\$ 43,330,000	2031	17

**BOARD OF WATER SUPPLY
OPERATING FUND REVENUES
FISCAL YEAR 2019**



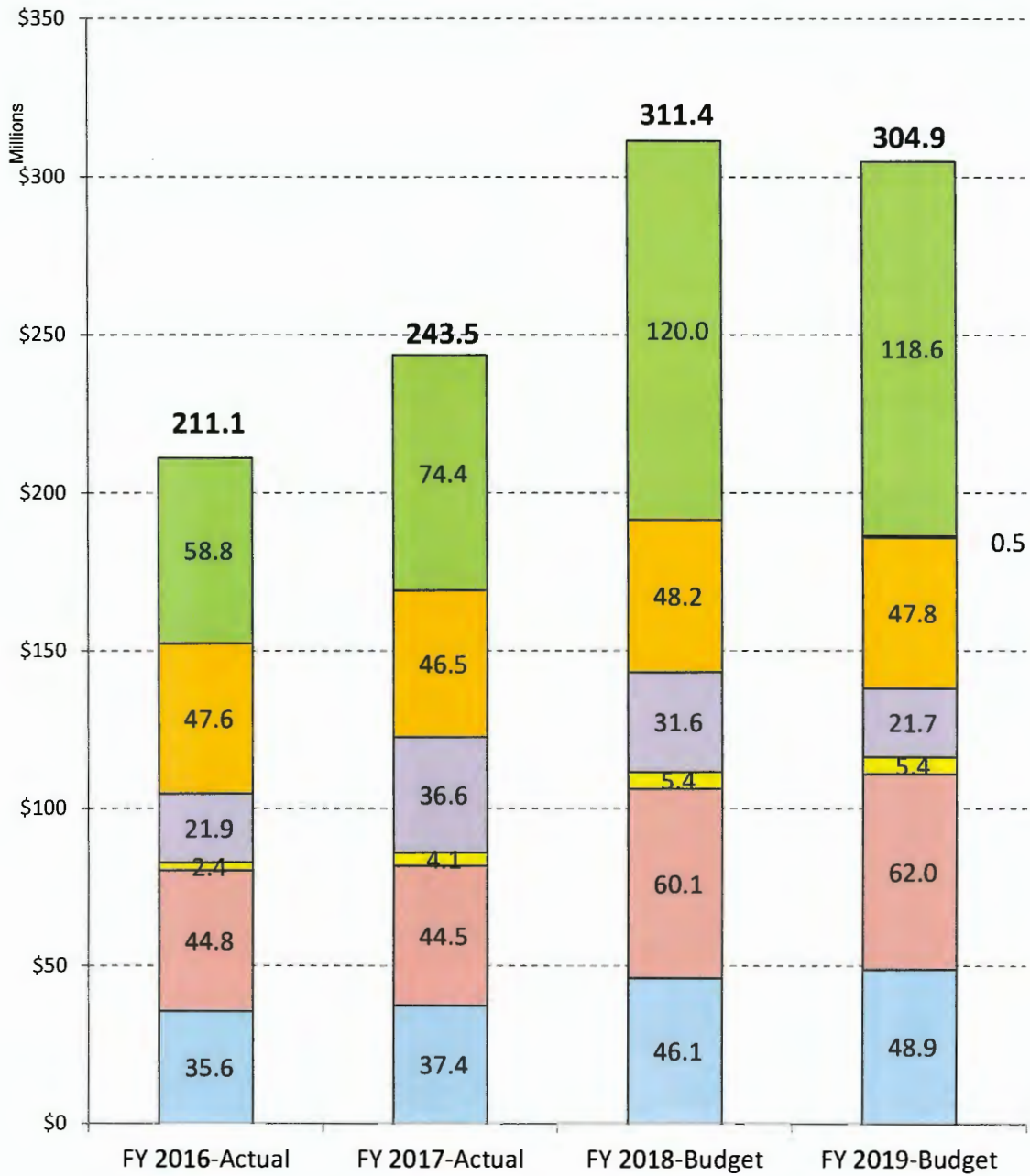
**BOARD OF WATER SUPPLY
TOTAL RESOURCES VS. TOTAL EXPENDITURES
FISCAL YEAR 2019**



- Revenues
- Lapses / Adjustments
- Fund Balance - Unreserved
- Fund Balance - Working Capital
- Fund Balance - Debt Service Coverage
- Expenditures
- Waivers (WSFC)

Fiscal Year 2019	
Fund Balance 7/1/2018	
Debt Service Coverage	\$34,651,200
Working Capital Reserve	30,546,000
Unreserved	33,077,531
Revenues	<u>239,235,700</u>
Total Resources	\$337,510,431
Total Expenditures	-304,394,999
Transfer to Special Ex. Fund	<u>- 500,000</u>
Fund Balance 6/30/2019	<u>\$ 32,615,432</u>

**BOARD OF WATER SUPPLY
OPERATING BUDGET EXPENDITURES (INCLUDING CIP)
FISCAL YEAR 2019**



- Personnel Srv.
- MS&S
- Equipment
- Debt Service
- Fixed Charges
- Waivers-Sp. Ex. Fund
- CIP

Fiscal Year 2019	
CIP	\$ 118,574,000
Fixed Charges	47,846,957
Debt Service	21,657,000
Equipment	5,364,774
MS&S	62,012,586
Personnel Svcs.	48,939,682
Transfer to Spec Ex	500,000
Total	\$304,894,999



PART I

OPERATING BUDGET

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**Board of Water Supply
Operating Budget
Fiscal Year 2019**

OMCE - Manager's Office

Section's Activity

The Manager and Chief Engineer is the executive head of the Board of Water Supply who administers the affairs of the department in accordance with policies and regulations adopted by the Board and the provisions of the City Charter.

Account	FY2017 Actual	FY2017 Adopted Budget	FY2018 Adopted Budget	FY2019 Proposed Budget	Change
4110 - Salaries & Wages	606,147	763,700	586,200	540,400	(45,800)
4120 - Overtime	0	0	0	0	0
Personnel Services	606,147	763,700	586,200	540,400	(45,800)
4160 - Meals; Mileage & Uniform Allowances	0	0	0	0	0
4250 - Other Contractual Services	4,967	5,700	4,200	4,600	400
4255 - Other Services	4,419	56,773	57,000	57,000	0
4260 - Advertising & Publication of Notices	0	500	500	500	0
4265 - Printing	0	1,000	1,000	1,000	0
4270 - Professional Services	28,830	35,000	35,000	35,000	0
4430 - Miscellaneous Supplies	4,999	5,000	5,000	5,000	0
4460 - Other Materials & Supplies	7,642	13,000	15,000	10,000	(5,000)
4720 - Conference Travel & Expenses	8,240	36,748	38,240	38,240	0
4815 - Repair & Maint - Equipment	1,139	3,000	3,000	3,000	0
4910 - Miscellaneous Fees & Registration	43,600	178,950	175,500	184,220	8,720
4915 - Miscellaneous Financial Expenses	0	0	0	0	0
8050 - Equipment (under \$5,000)	4,964	0	5,000	0	(5,000)
Materials, Supplies and Services	108,800	335,671	339,440	338,560	(880)
Total Manager's Office	714,947	1,099,371	925,640	878,960	(46,680)

Budget Highlights

**Board of Water Supply
Operating Budget
Fiscal Year 2019**

ESO - Executive Support Office

Division/Office's Activity

The Executive Support Office is responsible for the development of the annual departmental operating budget ; ensures that procurement of all goods and services and construction are in compliance with Hawaii Revised Statutes (HRS)103D; administers the department's safety, risk management, and security programs.

Account	FY2017 Actual	FY2017 Adopted Budget	FY2018 Adopted Budget	FY2019 Proposed Budget	Change
4110 - Salaries & Wages	1,016,792	1,255,900	1,214,400	1,409,800	195,400
4120 - Overtime	23,298	27,540	18,500	20,000	1,500
4130 - Miscellaneous (Payroll)	642	0	0	83,750	83,750
Personnel Services	1,040,732	1,283,440	1,232,900	1,513,550	280,650
4160 - Meals; Mileage & Uniform Allowances	2,464	5,540	3,700	2,700	(1,000)
4250 - Other Contractual Services	2,041,168	2,204,000	39,190	52,240	13,050
4251 - Software Licenses and Maintenance	0	0	0	36,000	36,000
4260 - Advertising & Publication of Notices	0	0	300	300	0
4265 - Printing	0	2,500	2,500	1,500	(1,000)
4270 - Professional Services	977,240	1,000,000	3,887,143	2,592,000	(1,295,143)
4275 - Medical & Surgical Services	971,511	1,000,000	0	0	0
4410 - Gasoline	108	0	0	0	0
4430 - Miscellaneous Supplies	29,684	10,489	9,788	10,050	262
4460 - Other Materials & Supplies	13,983	26,386	90,000	70,000	(20,000)
4480 - Postage	0	200	200	0	(200)
4500 - Education and Training	190	6,500	6,000	6,000	0
4720 - Conference Travel & Expenses	8,423	7,000	19,000	19,000	0
4805 - Repair & Maint - Structures	37,106	100,000	500,000	50,000	(450,000)
4815 - Repair & Maint - Equipment	0	75,000	0	0	0
4910 - Miscellaneous Fees & Registration	8,475	3,160	2,300	1,320	(980)
4915 - Miscellaneous Financial Expenses	0	1,000	0	0	0
5700 - Insurance	1,285,201	1,200,000	800,000	850,000	50,000
6340 - Workers Compensation Benefits	70,978	500,000	1,340,000	1,340,000	0
6350 - Claims for Pers Injuries & Prop Damage	381,325	1,000,000	1,000,000	1,000,000	0
8050 - Equipment (under \$5,000)	817	14,065	48,000	32,000	(16,000)
Materials, Supplies and Services	5,828,674	7,155,840	7,748,121	6,063,110	(1,685,011)
1270 - General Plant & Equip (over \$5,000)	0	0	0	20,000	20,000
Equipment	0	0	0	20,000	20,000
Total ESO - Executive Support Office	6,869,406	8,439,280	8,981,021	7,596,660	(1,384,361)

Notes

**Board of Water Supply
Operating Budget
Fiscal Year 2019**

ESO - Executive Support Office

5105 - Executive Support Office

Section's Activity

The Executive Support Office (ESO) administers and manages programs in areas such as budget, position management, reorganization, procurement, security, risk management and safety.

Account	FY2017 Actual	FY2017 Adopted Budget	FY2018 Adopted Budget	FY2019 Proposed Budget	Change
4110 - Salaries & Wages	217,540	175,900	200,100	259,700	59,600
4120 - Overtime	3,431	500	1,000	1,000	0
4130 - Miscellaneous (Payroll)	642	0	0	42,000	42,000
Personnel Services	221,613	176,400	201,100	302,700	101,600
4160 - Meals; Mileage & Uniform Allowances	64	0	0	0	0
4250 - Other Contractual Services	6,821	0	0	50,000	50,000
4265 - Printing	0	0	1,000	500	(500)
4270 - Professional Services	0	0	135,143	140,000	4,857
4410 - Gasoline	108	0	0	0	0
4430 - Miscellaneous Supplies	10,509	4,440	7,788	8,050	262
4500 - Education and Training	190	1,500	1,000	1,000	0
4910 - Miscellaneous Fees & Registration	0	1,000	1,000	1,000	0
4915 - Miscellaneous Financial Expenses	0	1,000	0	0	0
8050 - Equipment (under \$5,000)	817	2,500	0	0	0
Materials, Supplies and Services	18,509	10,440	145,931	200,550	54,619
Total Executive Support Office	240,122	186,840	347,031	503,250	156,219

Budget Highlights

**Board of Water Supply
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Fiscal Year 2019**

ESO - Executive Support Office

5110 - Risk Management

Section's Activity

The Risk Management section provides risk management services that ensure the business and operational exposures of the BWS are covered through either insurance or self-retention policies. Oversees the department's workers' compensation program. Additionally, the section ensures the safety and well-being of our employees through a comprehensive safety program and return-to-work program.

Account	FY2017 Actual	FY2017 Adopted Budget	FY2018 Adopted Budget	FY2019 Proposed Budget	Change
4110 - Salaries & Wages	223,296	321,300	309,700	323,300	13,600
4120 - Overtime	5,565	3,500	3,500	5,000	1,500
Personnel Services	228,861	324,800	313,200	328,300	15,100
4160 - Meals; Mileage & Uniform Allowances	931	1,200	1,200	1,200	0
4250 - Other Contractual Services	66,726	0	34,390	2,000	(32,390)
4270 - Professional Services	977,240	1,000,000	1,152,000	1,152,000	0
4275 - Medical & Surgical Services	971,511	1,000,000	0	0	0
4430 - Miscellaneous Supplies	104	2,000	0	0	0
4460 - Other Materials & Supplies	13,652	4,000	0	0	0
4500 - Education and Training	0	0	4,500	4,500	0
4720 - Conference Travel & Expenses	4,924	4,000	12,000	12,000	0
4910 - Miscellaneous Fees & Registration	8,475	2,000	1,100	0	(1,100)
5700 - Insurance	1,285,201	1,200,000	800,000	850,000	50,000
6340 - Workers Compensation Benefits	70,978	500,000	1,340,000	1,340,000	0
6350 - Claims for Pers Injuries & Prop Damage	381,325	1,000,000	1,000,000	1,000,000	0
8050 - Equipment (under \$5,000)	0	2,500	23,000	15,000	(8,000)
Materials, Supplies and Services	3,781,068	4,715,700	4,368,190	4,376,700	8,510
Total Risk Management	4,009,929	5,040,500	4,681,390	4,705,000	23,610

Budget Highlights

**Board of Water Supply
Operating Budget
Fiscal Year 2019**

ESO - Executive Support Office

5120 - Security Office

Section's Activity

Security section develops, coordinates, and maintains security measures and systems to protect BWS employees and facilities. It conducts vulnerability assessments, installs detection systems, and develops emergency response plans. It oversees the development and installation of security enhancements and equipment for BWS facilities. It monitors facilities from the central security center through the use of security guards, cameras, sensor alarms, and ID cards. The unit coordinates protective activities with external agencies such as the Honolulu Police and Fire Departments, State Civil Defense and Honolulu Department of Emergency Services, and other Homeland Security organizations.

Account	FY2017 Actual	FY2017 Adopted Budget	FY2018 Adopted Budget	FY2019 Proposed Budget	Change
4110 - Salaries & Wages	219,360	295,300	228,300	248,900	20,600
4120 - Overtime	7,943	21,040	10,000	10,000	0
Personnel Services	227,303	316,340	238,300	258,900	20,600
4160 - Meals; Mileage & Uniform Allowances	1,020	4,340	2,500	1,500	(1,000)
4250 - Other Contractual Services	1,941,537	2,204,000	4,800	0	(4,800)
4270 - Professional Services	0	0	2,600,000	1,300,000	(1,300,000)
4430 - Miscellaneous Supplies	19,039	2,049	2,000	2,000	0
4460 - Other Materials & Supplies	259	22,386	90,000	70,000	(20,000)
4500 - Education and Training	0	3,000	500	500	0
4720 - Conference Travel & Expenses	0	3,000	0	0	0
4805 - Repair & Maint - Structures	37,106	100,000	500,000	50,000	(450,000)
4815 - Repair & Maint - Equipment	0	75,000	0	0	0
8050 - Equipment (under \$5,000)	0	6,765	17,000	1,000	(16,000)
Materials, Supplies and Services	1,998,961	2,420,540	3,216,800	1,425,000	(1,791,800)
Total Security Office	2,226,264	2,736,880	3,455,100	1,683,900	(1,771,200)

Budget Highlights

**Board of Water Supply
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ESO - Executive Support Office

5125 - Management and Budget

Section's Activity

The Management and Budget section is responsible for the development and execution of the annual operating budget. Develops water and other revenue projections and conducts various revenue, budgetary, financial and statistical studies of the department.

Account	FY2017 Actual	FY2017 Adopted Budget	FY2018 Adopted Budget	FY2019 Proposed Budget	Change
4110 - Salaries & Wages	88,758	196,900	174,300	194,200	19,900
4120 - Overtime	6,359	2,500	4,000	4,000	0
Personnel Services	95,117	199,400	178,300	198,200	19,900
4160 - Meals; Mileage & Uniform Allowances	380	0	0	0	0
4250 - Other Contractual Services	25,979	0	0	0	0
4251 - Software Licenses and Maintenance	0	0	0	36,000	36,000
4260 - Advertising & Publication of Notices	0	0	300	300	0
4265 - Printing	0	2,500	1,500	1,000	(500)
4910 - Miscellaneous Fees & Registration	0	160	200	320	120
8050 - Equipment (under \$5,000)	0	2,300	3,000	1,000	(2,000)
Materials, Supplies and Services	26,359	4,960	5,000	38,620	33,620
1270 - General Plant & Equip (over \$5,000)	0	0	0	20,000	20,000
Equipment	0	0	0	20,000	20,000
Total Management and Budget	121,476	204,360	183,300	256,820	73,520

Budget Highlights

**Board of Water Supply
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Fiscal Year 2019**

ESO - Executive Support Office

5140 - Procurement

Section's Activity

The Procurement section assists all BWS divisions and offices with the procurement of construction, goods, services, and professional services and to ensure that such procurements are conducted in accordance with Hawaii Revised Statutes Chapter 103D and the Hawaii Administrative Rules.

Account	FY2017 Actual	FY2017 Adopted Budget	FY2018 Adopted Budget	FY2019 Proposed Budget	Change
4110 - Salaries & Wages	267,838	266,500	302,000	383,700	81,700
4130 - Miscellaneous (Payroll)	0	0	0	41,750	41,750
Personnel Services	267,838	266,500	302,000	425,450	123,450
4160 - Meals; Mileage & Uniform Allowances	69	0	0	0	0
4250 - Other Contractual Services	105	0	0	240	240
4265 - Printing	0	0	0	0	0
4430 - Miscellaneous Supplies	32	2,000	0	0	0
4460 - Other Materials & Supplies	72	0	0	0	0
4480 - Postage	0	200	200	0	(200)
4500 - Education and Training	0	2,000	0	0	0
4720 - Conference Travel & Expenses	3,499	0	7,000	7,000	0
8050 - Equipment (under \$5,000)	0	0	5,000	15,000	10,000
Materials, Supplies and Services	3,777	4,200	12,200	22,240	10,040
Total Procurement Section	271,615	270,700	314,200	447,690	133,490

Budget Highlights

**Board of Water Supply
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Fiscal Year 2019**

COMM - Communications Office

Section's Activity

The Communications Office develops departmental policies and programs for strategic internal and external communications, including: community relations, water education and public information, including news releases, speeches, bulletins, advertisements, public service announcements, brochures, annual and special reports; notifies news media of water emergencies; coordinates and maintains effective media communications programs for the department; receives, processes and resolves complaints; develops and produces the employee newsletter; conducts orientations and manages the department's water education and facility tour program; coordinates community affairs programs and special events; and provides executive level strategic communications counsel and assistance to the Board, Manager, and departmental units in public affairs matters.

Account	FY2017 Actual	FY2017 Adopted Budget	FY2018 Adopted Budget	FY2019 Proposed Budget	Change
4110 - Salaries & Wages	712,943	698,400	732,300	796,300	64,000
4120 - Overtime	28,919	27,600	34,740	38,978	4,238
4130 - Miscellaneous (Payroll)	0	50,800	56,700	65,125	8,425
Personnel Services	741,862	776,800	823,740	900,403	76,663
4160 - Meals; Mileage & Uniform Allowances	1,483	400	870	957	87
4250 - Other Contractual Services	142,044	257,200	207,900	304,290	96,390
4251 - Software Licenses and Maintenance	0	0	3,500	10,940	7,440
4260 - Advertising & Publication of Notices	30,000	14,000	10,500	11,550	1,050
4265 - Printing	(186)	53,000	33,000	39,500	6,500
4430 - Miscellaneous Supplies	14,849	3,200	3,500	4,000	500
4460 - Other Materials & Supplies	17,594	29,900	29,900	41,800	11,900
4480 - Postage	271	15,400	15,400	39,100	23,700
4500 - Education and Training	3,588	2,500	4,500	5,000	500
4720 - Conference Travel & Expenses	1,825	7,000	5,000	6,000	1,000
4815 - Repair & Maint - Equipment	0	700	700	850	150
4910 - Miscellaneous Fees & Registration	349	1,000	14,800	14,620	(180)
8050 - Equipment (under \$5,000)	0	6,000	5,000	5,000	0
Materials, Supplies and Services	211,818	390,300	334,570	483,607	149,037
1270 - General Plant & Equip (over \$5,000)	15,250	0	0	30,274	30,274
Equipment	15,250	0	0	30,274	30,274
Total Communications Office	968,930	1,167,100	1,158,310	1,414,284	255,974

Budget Highlights

**Board of Water Supply
Operating Budget
Fiscal Year 2019**

OC - Ocean Cooling

Section's Activity

The Ocean Cooling Program is responsible under a 20-year contract, for the operation and maintenance of the seawater cooling facility at the University of Hawaii John A. Burns School of Medicine in Kakaako. The use of cold seawater for building cooling conserves potable water and energy that would otherwise be used in conventional mechanical cooling systems.

Account	FY2017 Actual	FY2017 Adopted Budget	FY2018 Adopted Budget	FY2019 Proposed Budget	Change
4110 - Salaries & Wages	220,008	220,000	220,000	220,000	0
Personnel Services	220,008	220,000	220,000	220,000	0
4250 - Other Contractual Services	819	0	0	0	0
4430 - Miscellaneous Supplies	342	800	800	800	0
4460 - Other Materials & Supplies	0	30,000	30,000	30,000	0
4470 - Parts and Accessories	0	5,000	5,000	5,000	0
4815 - Repair & Maint - Equipment	84,156	390,800	363,000	355,000	(8,000)
Materials, Supplies and Services	85,318	426,600	398,800	390,800	(8,000)
Total Ocean Cooling	305,326	646,600	618,800	610,800	(8,000)

Budget Highlights

**Board of Water Supply
Operating Budget
Fiscal Year 2019**

HRO - Human Resources Office

Section's Activity

The BWS Human Resources Office administers and manages BWS human resources programs in areas including recruitment, examination, and selection, employee benefits, transactions and personnel record maintenance, labor relations, performance evaluation, classification and compensation, and staff development. In addition, BWS HRO provides staff support for position management and review of reorganizations.

Account	FY2017 Actual	FY2017 Adopted Budget	FY2018 Adopted Budget	FY2019 Proposed Budget	Change
4110 - Salaries & Wages	521,822	588,500	552,700	584,600	31,900
4120 - Overtime	1,635	3,000	6,000	5,000	(1,000)
4130 - Miscellaneous (Payroll)	37,000	38,500	0	0	0
Personnel Services	560,456	630,000	558,700	589,600	30,900
4160 - Meals; Mileage & Uniform Allowances	170	200	200	300	100
4250 - Other Contractual Services	17,435	40,000	43,000	50,000	7,000
4260 - Advertising & Publication of Notices	0	5,000	5,000	5,000	0
4270 - Professional Services	142,472	0	0	0	0
4430 - Miscellaneous Supplies	2,971	2,400	4,500	2,500	(2,000)
4460 - Other Materials & Supplies	2,461	5,500	5,000	6,000	1,000
4480 - Postage	77	100	100	100	0
4500 - Education and Training	43,020	83,200	71,200	71,200	0
4720 - Conference Travel & Expenses	2,794	3,890	13,320	15,300	1,980
4815 - Repair & Maint - Equipment	567	1,500	1,500	1,250	(250)
4910 - Miscellaneous Fees & Registration	274	300	275	500	225
6340 - Workers Compensation Benefits	0	0	0	0	0
8050 - Equipment (under \$5,000)	4,043	5,000	1,000	0	(1,000)
Materials, Supplies and Services	216,284	147,090	145,095	152,150	7,055
1270 - General Plant & Equip (over \$5,000)	0	12,000	0	35,000	35,000
Equipment	0	12,000	0	35,000	35,000
Total Human Resources Office	776,740	789,090	703,795	776,750	72,955

Budget Highlights

**Board of Water Supply
Operating Budget
Fiscal Year 2019**

WQ - Water Quality

Division/Office's Activity

The Water Quality Division ensures the department's compliance with all federal and state drinking water regulations and environmental laws, rules and regulations and manages special water quality studies.

Account	FY2017 Actual	FY2017 Adopted Budget	FY2018 Adopted Budget	FY2019 Proposed Budget	Change
4110 - Salaries & Wages	1,126,575	1,304,500	1,364,700	1,456,000	91,300
4120 - Overtime	119,084	90,000	45,000	145,000	100,000
4130 - Miscellaneous (Payroll)	0	0	0	0	0
Personnel Services	1,245,659	1,394,500	1,409,700	1,601,000	191,300
4160 - Meals; Mileage & Uniform Allowances	5,151	5,600	4,000	7,000	3,000
4250 - Other Contractual Services	712,114	1,079,900	1,063,900	3,042,400	1,978,500
4251 - Software Licenses and Maintenance	0	85,000	85,000	30,000	(55,000)
4270 - Professional Services	1,867,231	1,406,500	2,900,000	3,100,000	200,000
4410 - Gasoline	0	0	0	0	0
4430 - Miscellaneous Supplies	296	820	1,820	2,320	500
4460 - Other Materials & Supplies	84,293	79,300	74,300	96,300	22,000
4500 - Education and Training	585	22,300	23,260	24,670	1,410
4720 - Conference Travel & Expenses	11,843	22,700	39,000	43,500	4,500
4815 - Repair & Maint - Equipment	0	9,500	34,000	34,000	0
4910 - Miscellaneous Fees & Registration	7,019	10,100	14,200	16,200	2,000
8050 - Equipment (under \$5,000)	6,154	11,800	8,400	15,300	6,900
Materials, Supplies and Services	2,694,686	2,733,520	4,247,880	6,411,690	2,163,810
1270 - General Plant & Equip (over \$5,000)	0	27,200	50,000	50,000	0
Equipment	0	27,200	50,000	50,000	0
Total WQ - Water Quality	3,940,346	4,155,220	5,707,580	8,062,690	2,355,110

Notes

**Board of Water Supply
Operating Budget
Fiscal Year 2019**

WQ - Water Quality

5250 - Water Quality Administration

Section's Activity

Administers the department's compliance with all safe drinking water regulations, environmental laws, rules and regulations.

Account	FY2017 Actual	FY2017 Adopted Budget	FY2018 Adopted Budget	FY2019 Proposed Budget	Change
4110 - Salaries & Wages	194,527	367,900	383,900	346,600	(37,300)
4120 - Overtime	0	0	0	0	0
Personnel Services	194,527	367,900	383,900	346,600	(37,300)
4160 - Meals; Mileage & Uniform Allowances	0	0	0	0	0
4250 - Other Contractual Services	57,944	290,500	215,500	2,115,500	1,900,000
4270 - Professional Services	1,867,231	1,400,000	2,900,000	3,100,000	200,000
4430 - Miscellaneous Supplies	213	500	0	500	500
4460 - Other Materials & Supplies	16	300	300	300	0
4500 - Education and Training	0	20,600	20,600	21,620	1,020
4720 - Conference Travel & Expenses	9,753	13,900	27,700	32,400	4,700
4815 - Repair & Maint - Equipment	0	500	0	0	0
4910 - Miscellaneous Fees & Registration	1,683	1,500	1,500	1,800	300
8050 - Equipment (under \$5,000)	0	0	0	0	0
Materials, Supplies and Services	1,936,839	1,727,800	3,165,600	5,272,120	2,106,520
Total Water Quality Administration	2,131,366	2,095,700	3,549,500	5,618,720	2,069,220

Budget Highlights

**Board of Water Supply
Operating Budget
Fiscal Year 2019**

WQ - Water Quality

5251 - Chemical Laboratory

Section's Activity

The Chemical Laboratory performs required water quality testing and monitoring to conform to federal and state regulations; monitors proposed rules for departmental impact. Supports the department's operational testing requirements and special water quality studies.

Account	FY2017 Actual	FY2017 Adopted Budget	FY2018 Adopted Budget	FY2019 Proposed Budget	Change
4110 - Salaries & Wages	497,374	527,400	530,600	600,500	69,900
4120 - Overtime	18,690	30,000	25,000	25,000	0
Personnel Services	516,064	557,400	555,600	625,500	69,900
4160 - Meals; Mileage & Uniform Allowances	916	3,600	2,000	2,000	0
4250 - Other Contractual Services	548,709	648,200	708,300	786,800	78,500
4270 - Professional Services	0	6,500	0	0	0
4410 - Gasoline	0	0	0	0	0
4430 - Miscellaneous Supplies	84	320	1,820	1,820	0
4460 - Other Materials & Supplies	28,361	25,000	20,000	40,000	20,000
4500 - Education and Training	0	500	500	620	120
4720 - Conference Travel & Expenses	255	1,800	3,000	6,300	3,300
4815 - Repair & Maint - Equipment	0	5,000	30,000	30,000	0
4910 - Miscellaneous Fees & Registration	1,000	3,800	6,800	7,500	700
8050 - Equipment (under \$5,000)	4,945	8,800	5,000	4,700	(300)
Materials, Supplies and Services	584,269	703,520	777,420	879,740	102,320
1270 - General Plant & Equip (over \$5,000)	0	11,200	50,000	50,000	0
Equipment	0	11,200	50,000	50,000	0
Total Chemical Laboratory	1,100,333	1,272,120	1,383,020	1,555,240	172,220

Budget Highlights

**Board of Water Supply
Operating Budget
Fiscal Year 2019**

WQ - Water Quality

5252 - Microbiological Laboratory

Section's Activity

The Microbiological Laboratory performs the required bacteriological water quality testing and monitoring to conform to federal and state regulations; monitors proposed rules for departmental impact. Supports the department's operational testing requirements and special water quality studies

Account	FY2017 Actual	FY2017 Adopted Budget	FY2018 Adopted Budget	FY2019 Proposed Budget	Change
4110 - Salaries & Wages	434,674	409,200	450,200	508,900	58,700
4120 - Overtime	100,395	60,000	20,000	120,000	100,000
4130 - Miscellaneous (Payroll)	0	0	0	0	0
Personnel Services	535,069	469,200	470,200	628,900	158,700
4160 - Meals; Mileage & Uniform Allowances	4,235	2,000	2,000	5,000	3,000
4250 - Other Contractual Services	105,462	141,200	140,100	140,100	0
4251 - Software Licenses and Maintenance	0	85,000	85,000	30,000	(55,000)
4460 - Other Materials & Supplies	55,916	54,000	54,000	56,000	2,000
4500 - Education and Training	585	1,200	2,160	2,430	270
4720 - Conference Travel & Expenses	1,835	7,000	8,300	4,800	(3,500)
4815 - Repair & Maint - Equipment	0	4,000	4,000	4,000	0
4910 - Miscellaneous Fees & Registration	4,336	4,800	5,900	6,900	1,000
8050 - Equipment (under \$5,000)	1,209	3,000	3,400	10,600	7,200
Materials, Supplies and Services	173,578	302,200	304,860	259,830	(45,030)
1270 - General Plant & Equip (over \$5,000)	0	16,000	0	0	0
Equipment	0	16,000	0	0	0
Total Microbiological Laboratory	708,647	787,400	775,060	888,730	113,670

Budget Highlights

**Board of Water Supply
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CC - Customer Care

Division/Office's Activity

The Customer Care Division handles contacts with customers; prepares applications and contracts for water service; designs service connections; and maintains accounts receivable; investigates consumers' service problems; and collects water and sewer bills. It is responsible for reviewing development construction plans, specifications, and reports for conformity with BWS standards; reviewing requests concerning the availability of water; and administering rules and regulations on cross-connection control and environmental requirements.

Account	FY2017 Actual	FY2017 Adopted Budget	FY2018 Adopted Budget	FY2019 Proposed Budget	Change
4110 - Salaries & Wages	3,390,133	4,098,400	4,358,200	4,413,800	55,600
4120 - Overtime	244,492	243,000	317,200	526,300	209,100
4130 - Miscellaneous (Payroll)	95,675	94,000	127,700	100,000	(27,700)
Personnel Services	3,730,301	4,435,400	4,803,100	5,040,100	237,000
4160 - Meals; Mileage & Uniform Allowances	18,081	21,100	25,100	33,950	8,850
4220 - Collection Fees	199,741	701,000	901,200	678,000	(223,200)
4250 - Other Contractual Services	34,819	98,400	141,700	65,870	(75,830)
4267 - Printed forms	0	1,500	4,400	5,000	600
4410 - Gasoline	5	0	0	0	0
4430 - Miscellaneous Supplies	11,133	12,000	21,100	29,400	8,300
4460 - Other Materials & Supplies	48,094	45,700	80,200	59,200	(21,000)
4480 - Postage	0	0	0	0	0
4500 - Education and Training	4,869	41,400	48,900	41,800	(7,100)
4720 - Conference Travel & Expenses	550	9,400	6,000	6,000	0
4815 - Repair & Maint - Equipment	6,575	85,700	27,900	25,900	(2,000)
4910 - Miscellaneous Fees & Registration	0	6,300	5,900	4,800	(1,100)
8050 - Equipment (under \$5,000)	28,408	82,700	76,500	54,425	(22,075)
Materials, Supplies and Services	352,276	1,105,200	1,338,900	1,004,345	(334,555)
1270 - General Plant & Equip (over \$5,000)	0	0	20,000	363,000	343,000
Equipment	0	0	20,000	363,000	343,000
Total CC - Customer Care	4,082,577	5,540,600	6,162,000	6,407,445	245,445

Notes

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CC - Customer Care

5300 - Customer Care Administration

Section's Activity

Administers the affairs of the Customer Care Administration Section; provides clerical support to sections.

Account	FY2017 Actual	FY2017 Adopted Budget	FY2018 Adopted Budget	FY2019 Proposed Budget	Change
4110 - Salaries & Wages	262,385	324,500	348,500	285,600	(62,900)
4120 - Overtime	917	10,000	1,000	2,500	1,500
Personnel Services	263,302	334,500	349,500	288,100	(61,400)
4160 - Meals; Mileage & Uniform Allowances	10	0	0	50	50
4250 - Other Contractual Services	686	70,000	83,000	3,600	(79,400)
4430 - Miscellaneous Supplies	8,345	12,000	15,000	15,000	0
4460 - Other Materials & Supplies	5,675	0	0	0	0
4500 - Education and Training	4,869	41,400	35,000	33,000	(2,000)
4720 - Conference Travel & Expenses	550	9,400	6,000	6,000	0
4910 - Miscellaneous Fees & Registration	0	4,500	500	600	100
8050 - Equipment (under \$5,000)	3,763	28,800	5,000	0	(5,000)
Materials, Supplies and Services	23,899	166,100	144,500	58,250	(86,250)
1270 - General Plant & Equip (over \$5,000)	0	0	0	363,000	363,000
Equipment	0	0	0	363,000	363,000
Total Customer Care Administration	287,200	500,600	494,000	709,350	215,350

Budget Highlights

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CC - Customer Care

5310 - Collection and Credit

Section's Activity

The Collection and Credit Section formulates and establishes collection and credit practices and procedures; maintains the cashiering service for payment of water and sewer bills; processes payments made by mail and through charge cards, E-bill, automatic bill payment, and Satellite City Halls; maintains records of delinquent and inactive accounts; performs all field collection and customer service work required to maintain an effective billing and collection program.

Account	FY2017 Actual	FY2017 Adopted Budget	FY2018 Adopted Budget	FY2019 Proposed Budget	Change
4110 - Salaries & Wages	661,532	825,700	790,300	820,000	29,700
4120 - Overtime	1,500	5,000	7,200	7,800	600
4130 - Miscellaneous (Payroll)	46,126	20,800	61,600	40,000	(21,600)
Personnel Services	709,158	851,500	859,100	867,800	8,700
4160 - Meals; Mileage & Uniform Allowances	717	2,050	2,800	3,600	800
4220 - Collection Fees	199,741	701,000	901,200	678,000	(223,200)
4250 - Other Contractual Services	3,664	8,400	42,700	12,600	(30,100)
4267 - Printed forms	0	1,500	4,400	5,000	600
4410 - Gasoline	5	0	0	0	0
4430 - Miscellaneous Supplies	2,788	0	3,600	9,000	5,400
4460 - Other Materials & Supplies	130	3,000	0	0	0
4480 - Postage	0	0	0	0	0
4500 - Education and Training	0	0	5,400	6,800	1,400
4815 - Repair & Maint - Equipment	0	3,000	5,400	3,400	(2,000)
8050 - Equipment (under \$5,000)	0	2,400	8,500	7,700	(800)
Materials, Supplies and Services	207,045	721,350	974,000	726,100	(247,900)
Total Collection and Credit	916,204	1,572,850	1,833,100	1,593,900	(239,200)

Budget Highlights

**Board of Water Supply
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Fiscal Year 2019**

CC - Customer Care

5320 - Service Engineering

Section's Activity

The Service Engineering Section receives and processes applications for new water service and for relocating or altering water service facilities; renews and approves building permit applications for various types of developments; designs service connections, reviews development and construction plans for water service facilities, maintains maps and records of water distribution and service facilities; performs drafting work for the division; conducts special water service studies; administers water system facilities charges.

Account	FY2017 Actual	FY2017 Adopted Budget	FY2018 Adopted Budget	FY2019 Proposed Budget	Change
4110 - Salaries & Wages	321,364	447,100	408,000	477,800	69,800
4120 - Overtime	4,750	6,000	6,000	6,000	0
4130 - Miscellaneous (Payroll)	0	10,900	10,900	0	(10,900)
Personnel Services	326,114	464,000	424,900	483,800	58,900
4160 - Meals; Mileage & Uniform Allowances	478	800	800	800	0
4250 - Other Contractual Services	0	0	0	750	750
4460 - Other Materials & Supplies	12	1,200	1,200	1,200	0
8050 - Equipment (under \$5,000)	0	0	0	4,500	4,500
Materials, Supplies and Services	490	2,000	2,000	7,250	5,250
Total Service Engineering	326,604	466,000	426,900	491,050	64,150

Budget Highlights

**Board of Water Supply
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CC - Customer Care

5325 - Cross-Connection Control

Section's Activity

The Cross-Connection Control Section manages and implements the Department's Cross-Connection Control Program; reviews construction plans for cross-connection control requirements; conducts agricultural rate inspections; inspects backflow prevention assembly installations; administers the annual backflow prevention assembly testing program; conducts the backflow prevention assembly tester training course; tests and maintains the Department's backflow prevention assemblies; performs public outreach/education on cross-connection control and backflow prevention.

Account	FY2017 Actual	FY2017 Adopted Budget	FY2018 Adopted Budget	FY2019 Proposed Budget	Change
4110 - Salaries & Wages	169,760	299,600	327,600	285,400	(42,200)
4120 - Overtime	41,352	10,000	50,000	120,000	70,000
4130 - Miscellaneous (Payroll)	48,279	200	200	0	(200)
Personnel Services	259,391	309,800	377,800	405,400	27,600
4160 - Meals; Mileage & Uniform Allowances	2,499	1,250	3,500	7,000	3,500
4250 - Other Contractual Services	1,363	0	0	7,920	7,920
4460 - Other Materials & Supplies	38,010	36,700	74,000	50,000	(24,000)
4815 - Repair & Maint - Equipment	6,314	76,700	16,500	16,500	0
4910 - Miscellaneous Fees & Registration	0	1,800	3,400	2,200	(1,200)
8050 - Equipment (under \$5,000)	105	18,500	25,400	12,225	(13,175)
Materials, Supplies and Services	48,291	134,950	122,800	95,845	(26,955)
Total Cross-Connection Control	307,682	444,750	500,600	501,245	645

Budget Highlights

**Board of Water Supply
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Fiscal Year 2019**

CC - Customer Care

5330 - Customer Service and Records

Section's Activity

Customer Service and Records Section services customers' applications requiring reestablishment, discontinuance or transfer of services; maintains customer records for billing purposes; initiates field investigations; reviews governmental agency water service contracts; prepares statistical reports on services and handles inquiries and complaints regarding BWS operations, policies, rates and high water bills. Assists other BWS personnel in other divisions with information, statistics, and status of accounts via computer terminals and services files.

Account	FY2017 Actual	FY2017 Adopted Budget	FY2018 Adopted Budget	FY2019 Proposed Budget	Change
4110 - Salaries & Wages	820,345	1,094,400	1,292,500	1,283,200	(9,300)
4120 - Overtime	8,012	12,000	13,000	30,000	17,000
4130 - Miscellaneous (Payroll)	88	0	0	0	0
Personnel Services	828,445	1,106,400	1,305,500	1,313,200	7,700
4160 - Meals; Mileage & Uniform Allowances	84	0	0	2,500	2,500
4250 - Other Contractual Services	1,347	0	0	0	0
4430 - Miscellaneous Supplies	0	0	2,500	5,000	2,500
4460 - Other Materials & Supplies	6	0	0	0	0
4500 - Education and Training	0	0	8,500	2,000	(6,500)
8050 - Equipment (under \$5,000)	0	2,400	7,600	0	(7,600)
Materials, Supplies and Services	1,437	2,400	18,600	9,500	(9,100)
Total Customer Service and Records	829,881	1,108,800	1,324,100	1,322,700	(1,400)

Budget Highlights

**Board of Water Supply
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Fiscal Year 2019**

CC - Customer Care

5350 - Investigation

Section's Activity

The Investigation Section investigates and determines causes of abnormalities, interruptions and reductions in water supply; investigates consumer complaints; locates underground piping systems; locates leaks; inspects water services for conformance to the department's rules and regulations; and obtains field data on water services.

Account	FY2017 Actual	FY2017 Adopted Budget	FY2018 Adopted Budget	FY2019 Proposed Budget	Change
4110 - Salaries & Wages	1,154,747	1,107,100	1,191,300	1,261,800	70,500
4120 - Overtime	187,961	200,000	240,000	360,000	120,000
4130 - Miscellaneous (Payroll)	1,182	62,100	55,000	60,000	5,000
Personnel Services	1,343,891	1,369,200	1,486,300	1,681,800	195,500
4160 - Meals; Mileage & Uniform Allowances	14,293	17,000	18,000	20,000	2,000
4250 - Other Contractual Services	27,760	20,000	16,000	41,000	25,000
4410 - Gasoline	0	0	0	0	0
4430 - Miscellaneous Supplies	0	0	0	400	400
4460 - Other Materials & Supplies	4,261	4,800	5,000	8,000	3,000
4815 - Repair & Maint - Equipment	261	6,000	6,000	6,000	0
4910 - Miscellaneous Fees & Registration	0	0	2,000	2,000	0
8050 - Equipment (under \$5,000)	24,540	30,600	30,000	30,000	0
Materials, Supplies and Services	71,115	78,400	77,000	107,400	30,400
1270 - General Plant & Equip (over \$5,000)	0	0	20,000	0	(20,000)
Equipment	0	0	20,000	0	(20,000)
Total Investigation	1,415,005	1,447,600	1,583,300	1,789,200	205,900

Budget Highlights

**Board of Water Supply
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LAND - Land

Section's Activity

The Land Division is responsible for acquiring real property and real property interests by purchase, eminent domain, license, lease or otherwise, conducts title searches; prepares or secures surveys, maps and descriptions for real property transactions; makes and/or contracts for land appraisals and analyzes those prepared by others; contracts and negotiates with private parties and government agencies to acquire real property and real property interests; prepares, checks and processes deeds, grants of easement, licenses, leases, agreements and other documents through to final execution and recordation; manages all real property and real property interests under the jurisdiction of the department, including recommendations on land use policies and carrying out the disposition of real property and real property interests, licenses, leases, etc.; and keeps abreast of laws and court decisions affecting real property rights and values.

Account	FY2017 Actual	FY2017 Adopted Budget	FY2018 Adopted Budget	FY2019 Proposed Budget	Change
4110 - Salaries & Wages	244,041	282,900	280,900	302,300	21,400
4120 - Overtime	16,658	17,500	18,400	19,100	700
4130 - Miscellaneous (Payroll)	0	3,700	3,700	0	(3,700)
Personnel Services	260,699	304,100	303,000	321,400	18,400
4160 - Meals; Mileage & Uniform Allowances	220	480	500	0	(500)
4210 - Appraisals; Title Searches & Related Costs	223,939	420,500	390,500	452,500	62,000
4250 - Other Contractual Services	650	900	23,900	19,200	(4,700)
4430 - Miscellaneous Supplies	540	600	600	600	0
4460 - Other Materials & Supplies	18	0	0	0	0
4480 - Postage	0	100	200	200	0
4720 - Conference Travel & Expenses	3,254	5,000	0	0	0
4910 - Miscellaneous Fees & Registration	15,415	19,200	19,200	19,200	0
Materials, Supplies and Services	244,037	446,780	434,900	491,700	56,800
1270 - General Plant & Equip (over \$5,000)	0	0	0	40,000	40,000
Equipment	0	0	0	40,000	40,000
Total Land	504,736	750,880	737,900	853,100	115,200

Budget Highlights

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WR - Water Resources

Division/Office's Activity

The Water Resources Division administers and coordinates long range planning and the capital program; conducts continuous hydrologic and geologic monitoring; conducts hydraulic water system analysis for infrastructure improvements and operational efficiency; administers and coordinates the review of development related proposals for the availability of water and water system adequacy; and administers the water conservation and recycled water programs.

Account	FY2017 Actual	FY2017 Adopted Budget	FY2018 Adopted Budget	FY2019 Proposed Budget	Change
4110 - Salaries & Wages	2,059,513	2,321,800	2,137,700	2,373,600	235,900
4120 - Overtime	91,811	72,892	112,374	100,291	(12,083)
4130 - Miscellaneous (Payroll)	50	29,800	57,015	3,348	(53,667)
Personnel Services	2,151,374	2,424,492	2,307,089	2,477,239	170,150
4160 - Meals; Mileage & Uniform Allowances	3,773	2,000	2,430	3,330	900
4250 - Other Contractual Services	1,261,842	950,129	1,457,730	1,060,300	(397,430)
4255 - Other Services	130,289	547,018	548,840	680,075	131,235
4260 - Advertising & Publication of Notices	832	0	0	0	0
4265 - Printing	0	800	800	1,000	200
4270 - Professional Services	41,592	150,000	800,000	900,000	100,000
4430 - Miscellaneous Supplies	5,906	10,000	10,000	10,000	0
4460 - Other Materials & Supplies	33,282	26,860	45,400	48,000	2,600
4480 - Postage	37	480	480	480	0
4500 - Education and Training	9,044	28,300	16,300	14,600	(1,700)
4680 - Telephone	2,172	12,660	12,660	0	(12,660)
4720 - Conference Travel & Expenses	29,875	50,415	64,680	69,105	4,425
4810 - Repair & Maint - Recycled Water Plt	2,070,162	732,016	1,275,644	948,442	(327,202)
4815 - Repair & Maint - Equipment	1,217	25,900	31,900	31,600	(300)
4910 - Miscellaneous Fees & Registration	500	1,200	1,200	1,200	0
4920 - Non-Potable Water Trtmnt Plt Costs	3,607,851	5,365,331	4,668,725	4,638,520	(30,205)
4940 - US Geol Surv (USGS) CoOp Invest	58,436	60,000	232,000	72,000	(160,000)
8050 - Equipment (under \$5,000)	71,384	62,900	215,850	81,300	(134,550)
Materials, Supplies and Services	7,328,193	8,026,009	9,384,639	8,559,952	(824,687)
1270 - General Plant & Equip (over \$5,000)	35,945	169,000	104,280	85,000	(19,280)
Equipment	35,945	169,000	104,280	85,000	(19,280)
Total WR - Water Resources	9,515,512	10,619,501	11,796,008	11,122,191	(673,817)

Notes

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WR - Water Resources

5450 - Water Resources Administration

Section's Activity

The Water Resources Administration Section coordinates and directs the activities of the Division to meet the departmental requirements for water system and water resources management and development, conservation and projection; advises and keeps management informed on water resources and administers the pertinent rules and regulations.

Account	FY2017 Actual	FY2017 Adopted Budget	FY2018 Adopted Budget	FY2019 Proposed Budget	Change
4110 - Salaries & Wages	350,182	352,100	361,300	378,500	17,200
4120 - Overtime	0	2,000	2,000	2,000	0
4130 - Miscellaneous (Payroll)	0	0	0	0	0
Personnel Services	350,182	354,100	363,300	380,500	17,200
4160 - Meals; Mileage & Uniform Allowances	69	500	0	0	0
4250 - Other Contractual Services	480,686	500,000	920,000	753,600	(166,400)
4430 - Miscellaneous Supplies	5,773	10,000	10,000	10,000	0
4460 - Other Materials & Supplies	6,745	6,500	0	0	0
4500 - Education and Training	5,225	0	0	0	0
4680 - Telephone	0	660	660	0	(660)
4720 - Conference Travel & Expenses	2,304	3,390	4,200	9,950	5,750
4815 - Repair & Maint - Equipment	271	500	500	200	(300)
4910 - Miscellaneous Fees & Registration	500	0	0	0	0
Materials, Supplies and Services	501,573	521,550	935,360	773,750	(161,610)
Total Water Resources Administration	851,755	875,650	1,298,660	1,154,250	(144,410)

Budget Highlights

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WR - Water Resources

5470 - Water System Planning

Section's Activity

The Water Systems Planning Section supports the functions of the Water Resources Division and other divisions by analyzing the feasibility of proposed capital projects and water system improvements using computer hydraulic models; verifying source contribution for the annual Consumer Confidence Report; developing specialized computer hydraulic models and analyzing operational scenarios; implementing/ assisting with the investigation and resolution of customer complaints of inadequate water service; coordinating the acquisition and evaluation of private water systems; and gathering real-time operational data for analysis and evaluation

Account	FY2017 Actual	FY2017 Adopted Budget	FY2018 Adopted Budget	FY2019 Proposed Budget	Change
4110 - Salaries & Wages	264,204	313,900	291,000	347,900	56,900
4120 - Overtime	2,327	8,549	8,000	7,438	(562)
4130 - Miscellaneous (Payroll)	0	9,600	9,600	0	(9,600)
Personnel Services	266,531	332,049	308,600	355,338	46,738
4160 - Meals; Mileage & Uniform Allowances	279	0	880	880	0
4250 - Other Contractual Services	480	480	480	75,960	75,480
4430 - Miscellaneous Supplies	0	0	0	0	0
4460 - Other Materials & Supplies	1,575	1,500	1,500	1,500	0
4480 - Postage	0	480	480	480	0
4500 - Education and Training	360	8,460	9,060	8,060	(1,000)
4720 - Conference Travel & Expenses	5,441	11,450	12,930	13,330	400
4815 - Repair & Maint - Equipment	946	7,400	7,400	7,400	0
8050 - Equipment (under \$5,000)	21,096	20,400	0	4,650	4,650
Materials, Supplies and Services	30,177	50,170	32,730	112,260	79,530
1270 - General Plant & Equip (over \$5,000)	0	0	15,780	0	(15,780)
Equipment	0	0	15,780	0	(15,780)
Total Water System Planning	296,709	382,219	357,110	467,598	110,488

Budget Highlights

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WR - Water Resources

5472 - Water Conservation

Section's Activity

Directs the water conservation activities of the department; Conducts the planning, engineering, research, development, and implementation of the department's external (demand-side) and internal (infrastructure) conservation programs, including water facilities energy conservation and efficiency programs and recycled and other nonpotable water programs.

Account	FY2017 Actual	FY2017 Adopted Budget	FY2018 Adopted Budget	FY2019 Proposed Budget	Change
4110 - Salaries & Wages	372,191	539,400	426,100	484,000	57,900
4120 - Overtime	58,327	13,250	50,000	41,205	(8,795)
4130 - Miscellaneous (Payroll)	0	6,400	6,800	0	(6,800)
Personnel Services	430,518	559,050	482,900	525,205	42,305
4160 - Meals; Mileage & Uniform Allowances	2,632	600	650	1,150	500
4250 - Other Contractual Services	200,000	200,000	0	1,920	1,920
4255 - Other Services	0	35,000	35,000	0	(35,000)
4270 - Professional Services	41,592	150,000	800,000	900,000	100,000
4430 - Miscellaneous Supplies	38	0	0	0	0
4460 - Other Materials & Supplies	15,434	9,810	20,450	20,450	0
4480 - Postage	37	0	0	0	0
4500 - Education and Training	0	5,400	0	1,600	1,600
4720 - Conference Travel & Expenses	10,767	15,540	23,000	23,200	200
8050 - Equipment (under \$5,000)	49,581	2,500	140,000	150	(139,850)
Materials, Supplies and Services	320,080	418,850	1,019,100	948,470	(70,630)
1270 - General Plant & Equip (over \$5,000)	35,945	100,000	0	0	0
Equipment	35,945	100,000	0	0	0
Total Water Conservation	786,543	1,077,900	1,502,000	1,473,675	(28,325)

Budget Highlights

**Board of Water Supply
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WR - Water Resources

5475 - Recycled Water

Section's Activity

The Recycled Water Program is responsible for the treatment and distribution of recycled water for beneficial reuse island-wide; the construction, acquisition, and operation of recycled water treatment and distribution infrastructure; long-term service and support agreements with large water users; and to conduct research and provide public outreach to promote acceptance of recycled water.

Account	FY2017 Actual	FY2017 Adopted Budget	FY2018 Adopted Budget	FY2019 Proposed Budget	Change
4250 - Other Contractual Services	121,395	120,000	144,000	144,000	0
4265 - Printing	0	200	200	0	(200)
4460 - Other Materials & Supplies	0	1,400	400	0	(400)
4810 - Repair & Maint - Recycled Water Plt	2,070,162	732,016	1,275,644	948,442	(327,202)
4920 - Non-Potable Water Trtmnt Plt Costs	3,607,851	5,365,331	4,668,725	4,638,520	(30,205)
Materials, Supplies and Services	5,799,408	6,218,947	6,088,969	5,730,962	(358,007)
Total Recycled Water	5,799,408	6,218,947	6,088,969	5,730,962	(358,007)

Budget Highlights

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WR - Water Resources

5480 - Hydrology-Geology

Section's Activity

The Hydrology-Geology Section is responsible for water resource monitoring and evaluation. The section collects and analyzes hydrologic and geologic data to manage resources, to identify new sources, to determine capacity of groundwater resources and aquifer properties. Plans and specifications are prepared for the drilling, testing, and sealing of wells of varying utility. The data collection unit collects rainfall, production and water level data, and conducts geophysical well profiles. These compiled data as well as hydrologic advice provided by staff is given to other sections, units, agencies and the public as requested. The data is used for the preparation of source development and management reports and studies. Watershed related programs and activities are administered through the watershed coordinator

Account	FY2017 Actual	FY2017 Adopted Budget	FY2018 Adopted Budget	FY2019 Proposed Budget	Change
4110 - Salaries & Wages	435,578	495,800	408,000	436,700	28,700
4120 - Overtime	20,989	32,604	33,994	32,548	(1,446)
4130 - Miscellaneous (Payroll)	50	2,400	28,015	3,348	(24,667)
Personnel Services	456,617	530,804	470,009	472,596	2,587
4160 - Meals; Mileage & Uniform Allowances	460	600	600	1,000	400
4250 - Other Contractual Services	459,281	129,149	392,750	84,320	(308,430)
4255 - Other Services	130,289	512,018	513,840	680,075	166,235
4265 - Printing	0	600	600	1,000	400
4430 - Miscellaneous Supplies	16	0	0	0	0
4460 - Other Materials & Supplies	8,198	6,600	22,000	25,000	3,000
4500 - Education and Training	3,459	12,800	6,400	2,900	(3,500)
4680 - Telephone	2,172	12,000	12,000	0	(12,000)
4720 - Conference Travel & Expenses	2,741	9,310	10,400	12,000	1,600
4815 - Repair & Maint - Equipment	0	18,000	24,000	24,000	0
4910 - Miscellaneous Fees & Registration	0	1,200	1,200	1,200	0
4940 - US Geol Surv (USGS) CoOp Invest	58,436	60,000	232,000	72,000	(160,000)
8050 - Equipment (under \$5,000)	0	40,000	75,500	75,500	0
Materials, Supplies and Services	665,053	802,277	1,291,290	978,995	(312,295)
1270 - General Plant & Equip (over \$5,000)	0	69,000	85,000	85,000	0
Equipment	0	69,000	85,000	85,000	0
Total Hydrology-Geology	1,121,670	1,402,081	1,846,299	1,536,591	(309,708)

Budget Highlights

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WR - Water Resources

5490 - Project Review

Section's Activity

The Project Review Section reviews all requests concerning the availability of water; reviews all water master plans of private and public developments; provides system pressure and flow data; evaluates existing system facilities to ascertain capacities required to support proposed private and public developments; and maintains the files of outstanding water commitments

Account	FY2017 Actual	FY2017 Adopted Budget	FY2018 Adopted Budget	FY2019 Proposed Budget	Change
4110 - Salaries & Wages	239,272	232,700	247,600	274,000	26,400
4120 - Overtime	1,226	4,800	3,600	3,600	0
4130 - Miscellaneous (Payroll)	0	0	800	0	(800)
Personnel Services	240,499	237,500	252,000	277,600	25,600
4160 - Meals; Mileage & Uniform Allowances	20	0	0	0	0
4430 - Miscellaneous Supplies	16	0	0	0	0
4460 - Other Materials & Supplies	64	400	400	400	0
4500 - Education and Training	0	800	0	1,200	1,200
4720 - Conference Travel & Expenses	3,986	4,210	4,450	3,275	(1,175)
Materials, Supplies and Services	4,086	5,410	4,850	4,875	25
1270 - General Plant & Equip (over \$5,000)	0	0	3,500	0	(3,500)
Equipment	0	0	3,500	0	(3,500)
Total Project Review	244,585	242,910	260,350	282,475	22,125

Budget Highlights

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WR - Water Resources

5495 - Long Range Planning

Section's Activity

The Long-Range Planning Section develops master and long-range plans for water system improvements to meet departmental goals and objectives; prepares population projections and estimates of future water requirements; and prepares, prioritizes, and justifies related Capital Program projects.

Account	FY2017 Actual	FY2017 Adopted Budget	FY2018 Adopted Budget	FY2019 Proposed Budget	Change
4110 - Salaries & Wages	398,086	387,900	403,700	452,500	48,800
4120 - Overtime	8,941	11,689	14,780	13,500	(1,280)
4130 - Miscellaneous (Payroll)	0	11,400	11,800	0	(11,800)
Personnel Services	407,027	410,989	430,280	466,000	35,720
4160 - Meals; Mileage & Uniform Allowances	313	300	300	300	0
4250 - Other Contractual Services	0	500	500	500	0
4260 - Advertising & Publication of Notices	832	0	0	0	0
4430 - Miscellaneous Supplies	62	0	0	0	0
4460 - Other Materials & Supplies	1,266	650	650	650	0
4500 - Education and Training	0	840	840	840	0
4720 - Conference Travel & Expenses	4,637	6,515	9,700	7,350	(2,350)
8050 - Equipment (under \$5,000)	706	0	350	1,000	650
Materials, Supplies and Services	7,815	8,805	12,340	10,640	(1,700)
Total Long Range Planning	414,843	419,794	442,620	476,640	34,020

Budget Highlights

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FO - Field Operations

Division/Office's Activity

The Field Operations Division is responsible for the maintenance of all waterworks facilities, including all pipelines, valves, fire hydrants, meters, AMR components and corporation yards; maintaining all grounds; installing, maintaining, and repairing service connections; maintaining office buildings and physical control of the storerooms and storage yards.

Account	FY2017 Actual	FY2017 Adopted Budget	FY2018 Adopted Budget	FY2019 Proposed Budget	Change
4110 - Salaries & Wages	10,030,871	13,669,800	13,049,500	12,927,100	(122,400)
4120 - Overtime	1,471,627	1,629,600	1,598,000	1,724,600	126,600
4130 - Miscellaneous (Payroll)	476,306	1,051,100	1,184,300	1,108,000	(76,300)
Personnel Services	11,978,804	16,350,500	15,831,800	15,759,700	(72,100)
1110 - Materials & Supplies (Storeroom)	550,051	1,800,000	1,800,000	2,000,000	200,000
1120 - Meters (Storeroom)	188,860	4,297,000	2,400,000	1,200,000	(1,200,000)
1125 - AMR Materials & Supplies (Storeroom)	2,418,475	3,600,000	2,000,000	2,000,000	0
4160 - Meals; Mileage & Uniform Allowances	91,857	123,600	124,600	125,900	1,300
4230 - Emergency & Contracted Road Repairs	4,941,513	6,000,000	6,000,000	7,000,000	1,000,000
4250 - Other Contractual Services	602,169	890,100	893,100	1,088,400	195,300
4260 - Advertising & Publication of Notices	5,067	0	0	0	0
4270 - Professional Services	97,885	450,000	25,000	50,000	25,000
4280 - Refuse Collection & Disposal	526,236	550,000	550,000	840,000	290,000
4410 - Gasoline	0	0	0	0	0
4420 - Hauling Charges	55,940	36,000	160,000	160,000	0
4430 - Miscellaneous Supplies	10,528	9,600	10,000	7,500	(2,500)
4460 - Other Materials & Supplies	274,237	352,400	313,000	283,000	(30,000)
4470 - Parts and Accessories	1,452	2,400	2,400	0	(2,400)
4500 - Education and Training	14,967	30,000	30,000	40,000	10,000
4720 - Conference Travel & Expenses	27,707	36,000	46,000	35,000	(11,000)
4805 - Repair & Maint - Structures	4,400	60,000	60,000	60,000	0
4815 - Repair & Maint - Equipment	19,020	48,200	48,100	29,600	(18,500)
4820 - Repair & Maint - Distribution	0	0	0	0	0
4910 - Miscellaneous Fees & Registration	41	0	0	0	0
4915 - Miscellaneous Financial Expenses	0	0	0	0	0
4920 - Non-Potable Water Trtmt Plt Costs	0	200,000	0	0	0
4923 - Store Materials & Expense	407,958	500,000	500,000	700,000	200,000
8050 - Equipment (under \$5,000)	84,468	103,450	113,390	164,565	51,175
Materials, Supplies and Services	10,322,831	19,088,750	15,075,590	15,783,965	708,375
1270 - General Plant & Equip (over \$5,000)	0	20,000	59,240	100,000	40,760
Equipment	0	20,000	59,240	100,000	40,760
Total FO - Field Operations	22,301,635	35,459,250	30,966,630	31,643,665	677,035

Notes

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FO - Field Operations

5500 - Field Operations Administration

Section's Activity

Administers the affairs of the Field Operations Division.

Account	FY2017 Actual	FY2017 Adopted Budget	FY2018 Adopted Budget	FY2019 Proposed Budget	Change
4110 - Salaries & Wages	725,098	760,300	699,100	830,500	131,400
4120 - Overtime	14,247	12,000	12,000	15,000	3,000
4130 - Miscellaneous (Payroll)	50	94,200	77,200	30,000	(47,200)
Personnel Services	739,395	866,500	788,300	875,500	87,200
4160 - Meals; Mileage & Uniform Allowances	1,020	6,000	6,000	3,600	(2,400)
4250 - Other Contractual Services	36,576	160,000	160,000	144,000	(16,000)
4270 - Professional Services	97,885	450,000	25,000	50,000	25,000
4430 - Miscellaneous Supplies	0	0	0	0	0
4460 - Other Materials & Supplies	44	12,000	12,000	12,000	0
4500 - Education and Training	14,967	30,000	30,000	40,000	10,000
4720 - Conference Travel & Expenses	27,732	36,000	46,000	35,000	(11,000)
4815 - Repair & Maint - Equipment	0	10,000	10,000	10,000	0
4910 - Miscellaneous Fees & Registration	0	0	0	0	0
8050 - Equipment (under \$5,000)	0	0	4,000	60,170	56,170
Materials, Supplies and Services	178,224	704,000	293,000	354,770	61,770
1270 - General Plant & Equip (over \$5,000)	0	0	51,940	0	(51,940)
Equipment	0	0	51,940	0	(51,940)
Total Field Operations Administration	917,618	1,570,500	1,133,240	1,230,270	97,030

Budget Highlights

**Board of Water Supply
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FO - Field Operations

5510 - Distribution Branch Administration

Section's Activity

The Distribution Branch directs and coordinates the activities pertaining to maintenance of pipelines, appurtenances, buildings and corporation yards; coordinates and directs the maintenance of grounds; provides clerical support to sections of the division branch.

Account	FY2017 Actual	FY2017 Adopted Budget	FY2018 Adopted Budget	FY2019 Proposed Budget	Change
4110 - Salaries & Wages	206,866	419,400	264,400	272,000	7,600
4120 - Overtime	1,052	2,400	2,400	2,400	0
4130 - Miscellaneous (Payroll)	12,460	0	10,000	10,000	0
Personnel Services	220,378	421,800	276,800	284,400	7,600
4160 - Meals; Mileage & Uniform Allowances	49	0	0	0	0
4230 - Emergency & Contracted Road Repairs	4,941,513	6,000,000	6,000,000	7,000,000	1,000,000
4250 - Other Contractual Services	83	2,400	2,400	257,400	255,000
4430 - Miscellaneous Supplies	10,126	9,600	10,000	7,500	(2,500)
4460 - Other Materials & Supplies	0	0	0	0	0
4500 - Education and Training	0	0	0	0	0
4915 - Miscellaneous Financial Expenses	0	0	0	0	0
Materials, Supplies and Services	4,951,771	6,012,000	6,012,400	7,264,900	1,252,500
Total Distribution Branch Administration	5,172,149	6,433,800	6,289,200	7,549,300	1,260,100

Budget Highlights

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FO - Field Operations

5520 - Administration Unit

Section's Activity

The Maintenance Section (5520 – Administration Unit, 5521 – Hydrant & Valves Unit, and 5522 – Grounds and Landscaping Unit) installs, operates and maintains valves, hydrants and appurtenances, disinfects reservoirs and mains, conducts tapping and pipe cutting operations, maintains the metropolitan gravity system, corporation yards, grounds and landscaped areas; conducts inspections of the distribution system and facilities.

Account	FY2017 Actual	FY2017 Adopted Budget	FY2018 Adopted Budget	FY2019 Proposed Budget	Change
4110 - Salaries & Wages	152,588	68,900	186,900	173,400	(13,500)
4120 - Overtime	14,822	0	2,400	10,000	7,600
4130 - Miscellaneous (Payroll)	4,260	13,200	28,800	11,000	(17,800)
Personnel Services	171,671	82,100	218,100	194,400	(23,700)
4160 - Meals; Mileage & Uniform Allowances	1,809	0	0	1,500	1,500
4250 - Other Contractual Services	369,005	0	0	0	0
4280 - Refuse Collection & Disposal	526,132	550,000	550,000	840,000	290,000
4460 - Other Materials & Supplies	2,798	0	0	0	0
4815 - Repair & Maint - Equipment	0	0	0	0	0
4820 - Repair & Maint - Distribution	0	0	0	0	0
Materials, Supplies and Services	899,744	550,000	550,000	841,500	291,500
Total Administration Unit	1,071,415	632,100	768,100	1,035,900	267,800

Budget Highlights

**Board of Water Supply
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FO - Field Operations

5521 - Hydrants and Valves

Section's Activity

Account	FY2017 Actual	FY2017 Adopted Budget	FY2018 Adopted Budget	FY2019 Proposed Budget	Change
4110 - Salaries & Wages	1,016,731	1,672,700	1,584,800	1,549,000	(35,800)
4120 - Overtime	156,195	160,000	160,000	230,000	70,000
4130 - Miscellaneous (Payroll)	87,272	174,800	141,800	148,000	6,200
Personnel Services	1,260,198	2,007,500	1,886,600	1,927,000	40,400
4160 - Meals; Mileage & Uniform Allowances	9,467	10,800	10,800	15,000	4,200
4250 - Other Contractual Services	6,748	0	0	0	0
4460 - Other Materials & Supplies	24,669	48,000	35,000	35,000	0
4815 - Repair & Maint - Equipment	3,448	4,800	4,800	4,800	0
8050 - Equipment (under \$5,000)	13,787	16,000	22,350	23,300	950
Materials, Supplies and Services	58,118	79,600	72,950	78,100	5,150
Total Hydrants and Valves	1,318,316	2,087,100	1,959,550	2,005,100	45,550

Budget Highlights

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FO - Field Operations

5522 - Grounds and Landscaping

Section's Activity

Account	FY2017 Actual	FY2017 Adopted Budget	FY2018 Adopted Budget	FY2019 Proposed Budget	Change
4110 - Salaries & Wages	704,390	1,094,500	1,051,700	1,096,300	44,600
4120 - Overtime	40,755	60,000	60,000	60,000	0
4130 - Miscellaneous (Payroll)	5,878	26,400	55,000	73,000	18,000
Personnel Services	751,023	1,180,900	1,166,700	1,229,300	62,600
4160 - Meals; Mileage & Uniform Allowances	2,747	6,000	6,000	6,000	0
4250 - Other Contractual Services	100,977	600,000	600,000	580,000	(20,000)
4460 - Other Materials & Supplies	31,839	60,000	60,000	30,000	(30,000)
4500 - Education and Training	0	0	0	0	0
4815 - Repair & Maint - Equipment	4,852	4,800	4,800	4,800	0
8050 - Equipment (under \$5,000)	7,215	8,900	8,170	10,900	2,730
Materials, Supplies and Services	147,629	679,700	678,970	631,700	(47,270)
1270 - General Plant & Equip (over \$5,000)	0	20,000	0	0	0
Equipment	0	20,000	0	0	0
Total Grounds and Landscaping	898,652	1,880,600	1,845,670	1,861,000	15,330

Budget Highlights

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FO - Field Operations

5530 - Construction

Section's Activity

The Construction Section conducts all major emergency repair operations involving water mains, reservoirs and appurtenances ; constructs pipelines and appurtenances and miscellaneous projects; conducts all carpentry, masonry and heavy equipment operations.

Account	FY2017 Actual	FY2017 Adopted Budget	FY2018 Adopted Budget	FY2019 Proposed Budget	Change
4110 - Salaries & Wages	1,646,356	2,299,700	2,191,100	1,981,000	(210,100)
4120 - Overtime	425,967	500,000	450,000	450,000	0
4130 - Miscellaneous (Payroll)	63,123	212,600	265,800	219,000	(46,800)
Personnel Services	2,135,447	3,012,300	2,906,900	2,650,000	(256,900)
4160 - Meals; Mileage & Uniform Allowances	24,690	36,000	36,000	36,000	0
4250 - Other Contractual Services	50,977	48,000	48,000	48,000	0
4460 - Other Materials & Supplies	41,295	48,000	48,000	48,000	0
4470 - Parts and Accessories	1,452	0	0	0	0
4805 - Repair & Maint - Structures	4,400	36,000	50,000	50,000	0
4815 - Repair & Maint - Equipment	5,996	0	0	0	0
4910 - Miscellaneous Fees & Registration	0	0	0	0	0
8050 - Equipment (under \$5,000)	12,813	15,800	8,650	7,775	(875)
Materials, Supplies and Services	141,622	183,800	190,650	189,775	(875)
Total Construction	2,277,069	3,196,100	3,097,550	2,839,775	(257,775)

Budget Highlights

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FO - Field Operations

5540 - Administration Section

Section's Activity

Administers the affairs of the Suburban Field Services Branch. Directs and coordinates the activities pertaining to maintenance of pipelines and appurtenances, building and corporation yards, coordinates and directs the maintenance of grounds, provides clerical support to sections of the branch (5541 – Manana, 5542 – Wahiawa, 5543 – Waianae, and 5560 Windward).

Account	FY2017 Actual	FY2017 Adopted Budget	FY2018 Adopted Budget	FY2019 Proposed Budget	Change
4110 - Salaries & Wages	75,104	149,700	134,000	141,600	7,600
4120 - Overtime	488	0	0	0	0
Personnel Services	75,592	149,700	134,000	141,600	7,600
4160 - Meals; Mileage & Uniform Allowances	30	0	0	0	0
4250 - Other Contractual Services	2,170	0	0	0	0
4430 - Miscellaneous Supplies	168	0	0	0	0
4460 - Other Materials & Supplies	602	0	0	0	0
4720 - Conference Travel & Expenses	(25)	0	0	0	0
Materials, Supplies and Services	2,944	0	0	0	0
Total Administration Section	78,536	149,700	134,000	141,600	7,600

Budget Highlights

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FO - Field Operations

5541 - Manana Section

Section's Activity

Maintains the water distribution system, appurtenances within the Manana Section including all mains, valves, service connections, and hydrants; and repairs to reservoirs and buildings, and grounds maintenance.

Account	FY2017 Actual	FY2017 Adopted Budget	FY2018 Adopted Budget	FY2019 Proposed Budget	Change
4110 - Salaries & Wages	1,450,723	1,899,900	1,949,300	1,850,300	(99,000)
4120 - Overtime	321,541	264,000	265,000	300,000	35,000
4130 - Miscellaneous (Payroll)	82,546	133,600	164,400	177,000	12,600
Personnel Services	1,854,811	2,297,500	2,378,700	2,327,300	(51,400)
4160 - Meals; Mileage & Uniform Allowances	19,275	20,400	20,400	20,400	0
4250 - Other Contractual Services	5,080	41,600	41,600	15,000	(26,600)
4460 - Other Materials & Supplies	46,131	42,000	30,000	30,000	0
4815 - Repair & Maint - Equipment	3,483	6,000	6,000	6,000	0
4910 - Miscellaneous Fees & Registration	0	0	0	0	0
8050 - Equipment (under \$5,000)	15,793	12,800	11,770	10,600	(1,170)
Materials, Supplies and Services	89,762	122,800	109,770	82,000	(27,770)
Total Manana Section	1,944,572	2,420,300	2,488,470	2,409,300	(79,170)

Budget Highlights

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FO - Field Operations

5542 - Wahiawa Section

Section's Activity

Maintains the water distribution system, appurtenances within the Wahiawa Section including all mains, valves, service connections, and hydrants; and repairs to reservoirs and buildings.

Account	FY2017 Actual	FY2017 Adopted Budget	FY2018 Adopted Budget	FY2019 Proposed Budget	Change
4110 - Salaries & Wages	649,186	561,400	646,400	667,800	21,400
4120 - Overtime	124,416	120,000	120,000	125,000	5,000
4130 - Miscellaneous (Payroll)	19,405	53,200	66,400	70,000	3,600
Personnel Services	793,007	734,600	832,800	862,800	30,000
4160 - Meals; Mileage & Uniform Allowances	7,114	9,000	9,000	9,000	0
4250 - Other Contractual Services	89	700	700	1,400	700
4460 - Other Materials & Supplies	8,725	8,000	8,000	8,000	0
4815 - Repair & Maint - Equipment	886	2,000	2,000	2,000	0
4910 - Miscellaneous Fees & Registration	0	0	0	0	0
8050 - Equipment (under \$5,000)	6,710	5,100	13,300	11,000	(2,300)
Materials, Supplies and Services	23,524	24,800	33,000	31,400	(1,600)
Total Wahiawa Section	816,531	759,400	865,800	894,200	28,400

Budget Highlights

**Board of Water Supply
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FO - Field Operations

5543 - Waianae Section

Section's Activity

Maintains the water distribution system, appurtenances within the Waianae Section including all mains, valves, service connections, hydrants and repairs to reservoirs and buildings.

Account	FY2017 Actual	FY2017 Adopted Budget	FY2018 Adopted Budget	FY2019 Proposed Budget	Change
4110 - Salaries & Wages	624,383	668,000	670,600	695,800	25,200
4120 - Overtime	191,185	168,000	168,000	190,000	22,000
4130 - Miscellaneous (Payroll)	54,145	53,200	78,200	75,000	(3,200)
Personnel Services	869,714	889,200	916,800	960,800	44,000
4160 - Meals; Mileage & Uniform Allowances	9,668	9,000	9,000	9,000	0
4250 - Other Contractual Services	0	700	700	700	0
4460 - Other Materials & Supplies	1,625	6,000	6,000	6,000	0
4815 - Repair & Maint - Equipment	181	2,000	2,000	2,000	0
8050 - Equipment (under \$5,000)	0	1,100	9,600	4,500	(5,100)
Materials, Supplies and Services	11,474	18,800	27,300	22,200	(5,100)
Total Waianae Section	881,188	908,000	944,100	983,000	38,900

Budget Highlights

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FO - Field Operations

5550 - District Services

Section's Activity

Account	FY2017 Actual	FY2017 Adopted Budget	FY2018 Adopted Budget	FY2019 Proposed Budget	Change
4110 - Salaries & Wages	16,815	38,200	0	0	0
4120 - Overtime	0	1,200	0	0	0
4130 - Miscellaneous (Payroll)	17,013	0	0	0	0
Personnel Services	33,828	39,400	0	0	0
4160 - Meals; Mileage & Uniform Allowances	152	0	0	0	0
4250 - Other Contractual Services	4,263	12,000	0	0	0
4280 - Refuse Collection & Disposal	104	0	0	0	0
4460 - Other Materials & Supplies	46	0	0	0	0
Materials, Supplies and Services	4,565	12,000	0	0	0
Total District Services	38,393	51,400	0	0	0

Budget Highlights

**Board of Water Supply
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FO - Field Operations

5551 - Service Connections

Section's Activity

Service Connections installs new service connections and meters; and maintains, repairs, and renews service connections.

Account	FY2017 Actual	FY2017 Adopted Budget	FY2018 Adopted Budget	FY2019 Proposed Budget	Change
4110 - Salaries & Wages	261,144	395,700	418,700	383,900	(34,800)
4120 - Overtime	35,925	84,000	84,000	48,000	(36,000)
4130 - Miscellaneous (Payroll)	56,401	62,000	62,000	67,000	5,000
Personnel Services	353,470	541,700	564,700	498,900	(65,800)
4160 - Meals; Mileage & Uniform Allowances	2,556	6,000	6,000	4,000	(2,000)
4250 - Other Contractual Services	450	0	0	0	0
Materials, Supplies and Services	3,006	6,000	6,000	4,000	(2,000)
Total Service Connections	356,476	547,700	570,700	502,900	(67,800)

Budget Highlights

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FO - Field Operations

5552 - Meter Maintenance

Section's Activity

The Meter Maintenance Section operates and maintains the meter shop for testing and repairing meters; conducts annual meter and AMR maintenance program; inspects and performs large meter performance tests; repairs or replaces large meters; reviews and evaluates meter technical data; performs meter mastering to optimize meter type, size, and to diagnose problems; and installs and removes temporary fire hydrant meter assemblies.

Account	FY2017 Actual	FY2017 Adopted Budget	FY2018 Adopted Budget	FY2019 Proposed Budget	Change
4110 - Salaries & Wages	777,416	1,349,000	1,058,300	1,045,800	(12,500)
4120 - Overtime	3,747	120,000	120,000	120,000	0
4130 - Miscellaneous (Payroll)	0	20,000	20,000	36,000	16,000
Personnel Services	781,163	1,489,000	1,198,300	1,201,800	3,500
1120 - Meters (Storeroom)	188,860	4,297,000	2,400,000	1,200,000	(1,200,000)
1125 - AMR Materials & Supplies (Storeroom)	2,418,475	3,600,000	2,000,000	2,000,000	0
4160 - Meals; Mileage & Uniform Allowances	1,364	2,400	3,000	3,000	0
4250 - Other Contractual Services	8,418	22,000	22,000	27,400	5,400
4430 - Miscellaneous Supplies	44	0	0	0	0
4460 - Other Materials & Supplies	32,393	24,000	24,000	24,000	0
4470 - Parts and Accessories	0	2,400	2,400	0	(2,400)
4815 - Repair & Maint - Equipment	0	15,000	15,000	0	(15,000)
8050 - Equipment (under \$5,000)	22,710	28,150	19,840	10,170	(9,670)
Materials, Supplies and Services	2,672,265	7,990,950	4,486,240	3,264,570	(1,221,670)
1270 - General Plant & Equip (over \$5,000)	0	0	7,300	100,000	92,700
Equipment	0	0	7,300	100,000	92,700
Total Meter Maintenance	3,453,427	9,479,950	5,691,840	4,566,370	(1,125,470)

Budget Highlights

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FO - Field Operations

5553 - Building Maintenance

Section's Activity

Maintains Beretania Complex buildings, Kalihi Office buildings, and Kalihi Museum.

Account	FY2017 Actual	FY2017 Adopted Budget	FY2018 Adopted Budget	FY2019 Proposed Budget	Change
4110 - Salaries & Wages	341,735	404,900	444,500	460,000	15,500
4120 - Overtime	4,547	12,000	13,200	13,200	0
4130 - Miscellaneous (Payroll)	11,482	6,000	6,000	9,000	3,000
Personnel Services	357,764	422,900	463,700	482,200	18,500
4160 - Meals; Mileage & Uniform Allowances	1,144	2,400	2,400	2,400	0
4250 - Other Contractual Services	6,900	0	12,000	12,000	0
4460 - Other Materials & Supplies	1,446	6,000	6,000	6,000	0
4805 - Repair & Maint - Structures	0	24,000	10,000	10,000	0
4815 - Repair & Maint - Equipment	132	0	0	0	0
8050 - Equipment (under \$5,000)	0	2,000	0	4,800	4,800
Materials, Supplies and Services	9,621	34,400	30,400	35,200	4,800
Total Building Maintenance	367,386	457,300	494,100	517,400	23,300

Budget Highlights

**Board of Water Supply
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FO - Field Operations

5560 - Windward Branch

Section's Activity

Maintains the water distribution system, appurtenances and grounds within the Windward Section including all mains, valves and hydrants; repairs and installs service connections and repairs reservoirs and buildings.

Account	FY2017 Actual	FY2017 Adopted Budget	FY2018 Adopted Budget	FY2019 Proposed Budget	Change
4110 - Salaries & Wages	1,140,904	1,540,000	1,438,600	1,461,400	22,800
4120 - Overtime	133,525	120,000	135,000	155,000	20,000
4130 - Miscellaneous (Payroll)	62,272	176,400	184,400	153,000	(31,400)
Personnel Services	1,336,700	1,836,400	1,758,000	1,769,400	11,400
4160 - Meals; Mileage & Uniform Allowances	9,052	12,000	12,000	12,000	0
4250 - Other Contractual Services	5,179	2,700	5,700	2,500	(3,200)
4410 - Gasoline	0	0	0	0	0
4430 - Miscellaneous Supplies	12	0	0	0	0
4460 - Other Materials & Supplies	10,842	14,400	14,000	14,000	0
4815 - Repair & Maint - Equipment	43	3,600	3,500	0	(3,500)
4910 - Miscellaneous Fees & Registration	41	0	0	0	0
8050 - Equipment (under \$5,000)	4,794	7,600	5,650	14,300	8,650
Materials, Supplies and Services	29,963	40,300	40,850	42,800	1,950
1270 - General Plant & Equip (over \$5,000)	0	0	0	0	0
Equipment	0	0	0	0	0
Total Windward Branch	1,366,664	1,876,700	1,798,850	1,812,200	13,350

Budget Highlights

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FO - Field Operations

5585 - Procurement and Supply Unit

Section's Activity

The Supply Section is responsible for physical control of the storerooms and storage yards; coordinates and processes the annual materials contract and stores and disposes of scrap and surplus materials.

Account	FY2017 Actual	FY2017 Adopted Budget	FY2018 Adopted Budget	FY2019 Proposed Budget	Change
4110 - Salaries & Wages	241,431	347,500	311,100	318,300	7,200
4120 - Overtime	3,214	6,000	6,000	6,000	0
4130 - Miscellaneous (Payroll)	0	25,500	24,300	30,000	5,700
Personnel Services	244,645	379,000	341,400	354,300	12,900
1110 - Materials & Supplies (Storeroom)	550,051	1,800,000	1,800,000	2,000,000	200,000
4160 - Meals; Mileage & Uniform Allowances	1,720	3,600	4,000	4,000	0
4250 - Other Contractual Services	5,254	0	0	0	0
4260 - Advertising & Publication of Notices	5,067	0	0	0	0
4420 - Hauling Charges	55,940	36,000	160,000	160,000	0
4430 - Miscellaneous Supplies	178	0	0	0	0
4460 - Other Materials & Supplies	71,783	84,000	70,000	70,000	0
4470 - Parts and Accessories	0	0	0	0	0
4720 - Conference Travel & Expenses	0	0	0	0	0
4920 - Non-Potable Water Trtmt Plt Costs	0	200,000	0	0	0
4923 - Store Materials & Expense	407,958	500,000	500,000	700,000	200,000
8050 - Equipment (under \$5,000)	647	6,000	10,060	7,050	(3,010)
Materials, Supplies and Services	1,098,598	2,629,600	2,544,060	2,941,050	396,990
1270 - General Plant & Equip (over \$5,000)	0	0	0	0	0
Equipment	0	0	0	0	0
Total Procurement and Supply	1,343,243	3,008,600	2,885,460	3,295,350	409,890

Budget Highlights

**Board of Water Supply
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CP - Capital Projects

Division/Office's Activity

The Capital Projects Division develops and directs engineering policy and programs to carry out the Department's mission, vision, goals and objectives; formulates and implements the annual Capital Improvement Program budget; develops, implements and maintains programs to address water infrastructure needs; ensures all improvements to the municipal water system are designed and constructed in compliance with the Department's standards and policies; coordinates construction schedules and requirements between operational units and external entities; and provides advisory services to other units and staff services for executive decision-making.

Account	FY2017 Actual	FY2017 Adopted Budget	FY2018 Adopted Budget	FY2019 Proposed Budget	Change
4110 - Salaries & Wages	4,100,087	4,430,900	4,667,400	5,511,000	843,600
4120 - Overtime	328,367	367,000	435,100	490,100	55,000
4130 - Miscellaneous (Payroll)	24,889	243,400	494,000	214,000	(280,000)
Personnel Services	4,453,343	5,041,300	5,596,500	6,215,100	618,600
4160 - Meals; Mileage & Uniform Allowances	16,536	23,200	23,300	22,500	(800)
4250 - Other Contractual Services	820,058	755,000	900,000	895,600	(4,400)
4260 - Advertising & Publication of Notices	6,216	2,000	5,000	5,000	0
4270 - Professional Services	4,295	0	0	0	0
4430 - Miscellaneous Supplies	7,852	7,000	8,400	3,000	(5,400)
4460 - Other Materials & Supplies	7,096	5,800	8,500	36,800	28,300
4500 - Education and Training	5,488	20,200	23,800	25,250	1,450
4720 - Conference Travel & Expenses	7,721	14,000	18,000	21,400	3,400
4815 - Repair & Maint - Equipment	9,619	9,600	5,000	5,300	300
4910 - Miscellaneous Fees & Registration	210	23,350	23,000	850	(22,150)
8050 - Equipment (under \$5,000)	5,351	9,100	8,200	6,200	(2,000)
Materials, Supplies and Services	890,443	869,250	1,023,200	1,021,900	(1,300)
1270 - General Plant & Equip (over \$5,000)	0	0	21,000	113,000	92,000
Equipment	0	0	21,000	113,000	92,000
Total CP - Capital Projects	5,343,785	5,910,550	6,640,700	7,350,000	709,300

Notes

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CP - Capital Projects

5565 - Administration

Section's Activity

Engineering Administration develops and directs programs involving the planning, design, inspection and execution of all projects that are incorporated into the public water system

Account	FY2017 Actual	FY2017 Adopted Budget	FY2018 Adopted Budget	FY2019 Proposed Budget	Change
4110 - Salaries & Wages	473,266	500,100	526,400	523,800	(2,600)
4130 - Miscellaneous (Payroll)	0	6,000	56,100	0	(56,100)
Personnel Services	473,266	506,100	582,500	523,800	(58,700)
4160 - Meals; Mileage & Uniform Allowances	0	200	0	200	200
4250 - Other Contractual Services	518,827	600,000	600,000	609,600	9,600
4260 - Advertising & Publication of Notices	6,216	2,000	5,000	5,000	0
4270 - Professional Services	0	0	0	0	0
4430 - Miscellaneous Supplies	4,425	2,500	2,500	2,500	0
4460 - Other Materials & Supplies	810	0	0	23,500	23,500
4500 - Education and Training	2,860	3,400	3,400	4,650	1,250
4720 - Conference Travel & Expenses	4,714	3,300	4,800	5,000	200
4815 - Repair & Maint - Equipment	0	500	1,000	1,000	0
4910 - Miscellaneous Fees & Registration	50	22,850	22,500	350	(22,150)
8050 - Equipment (under \$5,000)	1,214	3,000	0	0	0
Materials, Supplies and Services	539,114	637,750	639,200	651,800	12,600
1270 - General Plant & Equip (over \$5,000)	0	0	0	8,000	8,000
Equipment	0	0	0	8,000	8,000
Total Administration	1,012,380	1,143,850	1,221,700	1,183,600	(38,100)

Budget Highlights

**Board of Water Supply
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CP - Capital Projects

5570 - Design & Plans Review

Section's Activity

The Design and Plans Review Branch formulates design and construction projects to address the needs of the Department; prepares and reviews plans, specifications, and cost estimates; coordinates and secures all necessary project approvals, permits and clearances for modifications or extensions to the municipal water system; and reviews all public and private construction plans for conformance with the Department's standards and policies and approved water master plans

Account	FY2017 Actual	FY2017 Adopted Budget	FY2018 Adopted Budget	FY2019 Proposed Budget	Change
4110 - Salaries & Wages	729,779	819,000	871,800	1,097,300	225,500
4120 - Overtime	70,273	84,000	90,000	72,000	(18,000)
4130 - Miscellaneous (Payroll)	0	58,200	60,000	14,000	(46,000)
Personnel Services	800,052	961,200	1,021,800	1,183,300	161,500
4160 - Meals; Mileage & Uniform Allowances	2,068	4,000	4,000	2,000	(2,000)
4250 - Other Contractual Services	0	0	0	0	0
4270 - Professional Services	2,075	0	0	0	0
4430 - Miscellaneous Supplies	0	0	0	0	0
4460 - Other Materials & Supplies	324	600	2,000	2,000	0
4500 - Education and Training	0	6,200	6,200	7,500	1,300
4720 - Conference Travel & Expenses	0	2,500	2,800	3,800	1,000
8050 - Equipment (under \$5,000)	3,434	3,800	5,800	3,000	(2,800)
Materials, Supplies and Services	7,902	17,100	20,800	18,300	(2,500)
1270 - General Plant & Equip (over \$5,000)	0	0	0	32,000	32,000
Equipment	0	0	0	32,000	32,000
Total Design & Plans Review	807,954	978,300	1,042,600	1,233,600	191,000

Budget Highlights

**Board of Water Supply
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CP - Capital Projects

5575 - Construction

Section's Activity

The Construction Branch administers the Department's construction contracts; plans and coordinates construction schedules; oversees all construction activities associated with projects that impact BWS facilities and assets; and ensures all construction, whether by the BWS or by other public and private interests, is completed in accordance with approved construction and accepted engineering practices in accordance with the Department's standards and policies, and approved construction plans and specifications

Account	FY2017 Actual	FY2017 Adopted Budget	FY2018 Adopted Budget	FY2019 Proposed Budget	Change
4110 - Salaries & Wages	1,963,541	1,936,100	2,020,400	2,440,800	420,400
4120 - Overtime	255,628	280,000	340,000	413,000	73,000
4130 - Miscellaneous (Payroll)	24,889	92,900	317,100	200,000	(117,100)
Personnel Services	2,244,058	2,309,000	2,677,500	3,053,800	376,300
4160 - Meals; Mileage & Uniform Allowances	14,428	18,900	19,000	20,000	1,000
4250 - Other Contractual Services	26,326	30,000	30,000	24,000	(6,000)
4270 - Professional Services	1,245	0	0	0	0
4430 - Miscellaneous Supplies	270	300	500	500	0
4460 - Other Materials & Supplies	4,608	4,000	6,500	6,500	0
4500 - Education and Training	(692)	6,400	6,400	6,800	400
4720 - Conference Travel & Expenses	2,824	7,200	7,200	7,600	400
4910 - Miscellaneous Fees & Registration	160	500	500	500	0
8050 - Equipment (under \$5,000)	359	300	0	0	0
Materials, Supplies and Services	49,528	67,600	70,100	65,900	(4,200)
1270 - General Plant & Equip (over \$5,000)	0	0	0	24,000	24,000
Equipment	0	0	0	24,000	24,000
Total Construction	2,293,586	2,376,600	2,747,600	3,143,700	396,100

Budget Highlights

**Board of Water Supply
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CP - Capital Projects

5580 - Support

Section's Activity

The Engineering Support Branch formulates the Department's annual Capital Improvement Program budget; prepares and administers agreements with public agencies and private developers; prepares and reviews plans, specifications, cost estimates and other necessary documents, and coordinates and secures all necessary project approvals, permits and clearances for the Department's facility repair and replacement construction projects; develops and implements programs for facility renovations, asset replacement, and fire protection improvement; provides technical research, assistance, expertise and advice throughout the Department; and develops and maintains the Department's water system standards and conducts research and product trials to evaluate new materials and equipment.

Account	FY2017 Actual	FY2017 Adopted Budget	FY2018 Adopted Budget	FY2019 Proposed Budget	Change
4110 - Salaries & Wages	479,891	672,300	664,500	746,200	81,700
4120 - Overtime	403	3,000	3,000	3,000	0
4130 - Miscellaneous (Payroll)	0	47,100	26,500	0	(26,500)
Personnel Services	480,294	722,400	694,000	749,200	55,200
4160 - Meals; Mileage & Uniform Allowances	0	100	100	100	0
4250 - Other Contractual Services	11,081	20,000	10,000	12,000	2,000
4270 - Professional Services	560	0	0	0	0
4430 - Miscellaneous Supplies	3,158	4,200	4,200	0	(4,200)
4460 - Other Materials & Supplies	687	0	0	3,600	3,600
4500 - Education and Training	2,400	2,400	6,000	4,500	(1,500)
4720 - Conference Travel & Expenses	0	500	600	2,500	1,900
4815 - Repair & Maint - Equipment	9,619	9,100	4,000	4,300	300
8050 - Equipment (under \$5,000)	345	500	1,400	2,200	800
Materials, Supplies and Services	27,850	36,800	26,300	29,200	2,900
1270 - General Plant & Equip (over \$5,000)	0	0	0	24,000	24,000
Equipment	0	0	0	24,000	24,000
Total Support	508,144	759,200	720,300	802,400	82,100

Budget Highlights

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CP - Capital Projects

5582 - Mechanical and Electrical

Section's Activity

The Mechanical and Electrical Engineering Branch oversees the design and installation of mechanical and electrical equipment and systems throughout the municipal water system; prepares plans, specifications, and cost estimates and coordinates and secures all necessary project approvals, permits and clearances for the construction of electrical and mechanical system installations and pump and motor repairs, renewals and replacement work in accordance with the Department's requirements; provides technical assistance and conducts field inspections, troubleshooting, pilot testing, and final acceptance inspections of mechanical and electrical components; monitors, evaluates, incorporates, and optimizes BWS equipment standards; and provides technical assistance, expertise, and advice on daily operation of pump and power facilities, equipment renewal and upgrade programs, continuity of service, and maintenance.

Account	FY2017 Actual	FY2017 Adopted Budget	FY2018 Adopted Budget	FY2019 Proposed Budget	Change
4110 - Salaries & Wages	453,609	503,400	584,300	702,900	118,600
4120 - Overtime	2,062	0	2,100	2,100	0
4130 - Miscellaneous (Payroll)	0	39,200	34,300	0	(34,300)
Personnel Services	455,672	542,600	620,700	705,000	84,300
4160 - Meals; Mileage & Uniform Allowances	40	0	200	200	0
4250 - Other Contractual Services	263,825	105,000	260,000	250,000	(10,000)
4260 - Advertising & Publication of Notices	0	0	0	0	0
4270 - Professional Services	415	0	0	0	0
4430 - Miscellaneous Supplies	0	0	1,200	0	(1,200)
4460 - Other Materials & Supplies	667	1,200	0	1,200	1,200
4500 - Education and Training	919	1,800	1,800	1,800	0
4720 - Conference Travel & Expenses	183	500	2,600	2,500	(100)
8050 - Equipment (under \$5,000)	0	1,500	1,000	1,000	0
Materials, Supplies and Services	266,049	110,000	266,800	256,700	(10,100)
1270 - General Plant & Equip (over \$5,000)	0	0	21,000	25,000	4,000
Equipment	0	0	21,000	25,000	4,000
Total Mechanical and Electrical	721,721	652,600	908,500	986,700	78,200

Budget Highlights

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WSO - Water System Operations

Division/Office's Activity

The Water System Operations Division is responsible for the operations and maintenance of pumping and water treatment plant equipment, plant facilities, and communications and electronic control systems. It maintains a 24-hour watch over the department's island-wide water systems and departmental electrical and emergency power supply systems. The unit also purchases, maintains, and repairs the department's vehicles and construction equipment.

Account	FY2017 Actual	FY2017 Adopted Budget	FY2018 Adopted Budget	FY2019 Proposed Budget	Change
4620 - Electricity	2,948	0	0	0	0
Departmental Fixed Charges	2,948	0	0	0	0
4110 - Salaries & Wages	4,663,828	6,592,400	5,428,200	5,954,000	525,800
4120 - Overtime	454,672	577,000	579,200	650,000	70,800
4130 - Miscellaneous (Payroll)	41,105	83,800	105,800	141,300	35,500
Personnel Services	5,159,606	7,253,200	6,113,200	6,745,300	632,100
4160 - Meals; Mileage & Uniform Allowances	24,324	33,524	35,350	35,350	0
4250 - Other Contractual Services	690,507	313,400	312,500	312,500	0
4251 - Software Licenses and Maintenance	0	3,800	50,000	19,000	(31,000)
4267 - Printed forms	1,797	100	100	100	0
4270 - Professional Services	600,000	600,000	720,000	150,000	(570,000)
4280 - Refuse Collection & Disposal	0	0	0	0	0
4410 - Gasoline	508,962	910,000	823,200	803,200	(20,000)
4430 - Miscellaneous Supplies	5,365	11,000	8,500	33,000	24,500
4440 - Motor Vehicle Parts & Accessories	434,429	452,000	452,000	452,000	0
4460 - Other Materials & Supplies	1,899,543	2,855,100	2,830,900	2,705,200	(125,700)
4470 - Parts and Accessories	581,199	716,400	646,400	626,400	(20,000)
4480 - Postage	0	0	0	0	0
4500 - Education and Training	16,605	52,700	50,900	50,900	0
4670 - Telemetering	200,461	240,000	240,000	240,000	0
4720 - Conference Travel & Expenses	7,182	17,100	14,100	14,400	300
4805 - Repair & Maint - Structures	11,008	52,000	52,000	40,000	(12,000)
4815 - Repair & Maint - Equipment	898,997	1,131,000	1,034,800	1,052,200	17,400
4910 - Miscellaneous Fees & Registration	11,361	8,900	6,500	3,500	(3,000)
8050 - Equipment (under \$5,000)	309,577	676,950	842,200	667,000	(175,200)
Materials, Supplies and Services	6,201,318	8,073,974	8,119,450	7,204,750	(914,700)
1270 - General Plant & Equip (over \$5,000)	3,078,193	4,051,200	4,772,800	4,121,500	(651,300)
Equipment	3,078,193	4,051,200	4,772,800	4,121,500	(651,300)
Total WSO - Water System Operations	14,442,064	19,378,374	19,005,450	18,071,550	(933,900)

Notes

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WSO - Water System Operations

5600 - Operations Administration

Section's Activity

Administers the affairs of the Water System Operations Division; provides engineering and clerical support to sections within the unit.

Account	FY2017 Actual	FY2017 Adopted Budget	FY2018 Adopted Budget	FY2019 Proposed Budget	Change
4110 - Salaries & Wages	339,611	508,500	378,500	452,200	73,700
4120 - Overtime	26,883	5,000	7,200	20,000	12,800
4130 - Miscellaneous (Payroll)	4,795	18,900	15,300	600	(14,700)
Personnel Services	371,290	532,400	401,000	472,800	71,800
4160 - Meals; Mileage & Uniform Allowances	794	600	600	600	0
4250 - Other Contractual Services	445,985	18,000	18,000	24,000	6,000
4251 - Software Licenses and Maintenance	0	0	46,000	15,000	(31,000)
4270 - Professional Services	600,000	600,000	720,000	150,000	(570,000)
4410 - Gasoline	3,541	0	0	0	0
4430 - Miscellaneous Supplies	4,601	4,800	4,800	4,800	0
4460 - Other Materials & Supplies	3,467	0	0	0	0
4500 - Education and Training	0	2,300	1,700	1,700	0
4720 - Conference Travel & Expenses	6,102	3,900	2,900	3,200	300
4910 - Miscellaneous Fees & Registration	5,070	600	600	600	0
8050 - Equipment (under \$5,000)	3,425	1,000	0	0	0
Materials, Supplies and Services	1,072,986	631,200	794,600	199,900	(594,700)
Total Operations Administration	1,444,275	1,163,600	1,195,600	672,700	(522,900)

Budget Highlights

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WSO - Water System Operations

5610 - Plant Operations

Section's Activity

The Pumps Section operates, maintains, repairs and installs equipment of the pumping systems consisting of electrical pumping plants, booster pumping stations, water treatment plants, hydraulic turbine pumping units, water treatment stations, reservoirs, reservoir altitude valves, in-line check and hydraulically-operated butterfly valves and pressure-regulating valves, aerators, meters and gauges, repair shops, buildings and structures, air conditioners, exhaust blowers and fans, auxiliary pumping and water treatment equipment; regulates the water supply within the water distribution systems through the use of a variety of mechanically and electrically-operated supervisory controls; operates the department's after-hour control center; maintains a 24-hour watch over department's island-wide water system.

Account	FY2017 Actual	FY2017 Adopted Budget	FY2018 Adopted Budget	FY2019 Proposed Budget	Change
4620 - Electricity	2,948	0	0	0	0
Departmental Fixed Charges	2,948	0	0	0	0
4110 - Salaries & Wages	85,542	218,800	208,700	261,500	52,800
4120 - Overtime	5,100	9,000	9,000	9,000	0
4130 - Miscellaneous (Payroll)	0	1,200	1,200	27,200	26,000
Personnel Services	90,642	229,000	218,900	297,700	78,800
4160 - Meals; Mileage & Uniform Allowances	166	300	300	300	0
4250 - Other Contractual Services	40,614	10,000	4,800	4,800	0
4430 - Miscellaneous Supplies	0	5,000	2,500	27,000	24,500
4460 - Other Materials & Supplies	1,678,591	2,620,000	2,573,000	2,433,400	(139,600)
4470 - Parts and Accessories	8,485	0	0	0	0
4500 - Education and Training	6,057	1,600	1,600	1,600	0
4720 - Conference Travel & Expenses	0	1,300	1,200	1,200	0
4805 - Repair & Maint - Structures	10,055	48,000	48,000	36,000	(12,000)
4815 - Repair & Maint - Equipment	821,615	854,000	821,800	864,200	42,400
4910 - Miscellaneous Fees & Registration	2,508	5,400	3,000	0	(3,000)
8050 - Equipment (under \$5,000)	33,608	82,000	52,000	24,000	(28,000)
Materials, Supplies and Services	2,601,700	3,627,600	3,508,200	3,392,500	(115,700)
1270 - General Plant & Equip (over \$5,000)	0	140,000	100,000	10,000	(90,000)
Equipment	0	140,000	100,000	10,000	(90,000)
Total Plant Operations	2,695,290	3,996,600	3,827,100	3,700,200	(126,900)

Budget Highlights

**Board of Water Supply
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WSO - Water System Operations

5611 - District 1 Leeward West Section

Section's Activity

District 1 consists of the stations on the leeward side of the island from Waipahu to Makaha. Granular activated carbon filtration plants are located at Hoaeae Wells; Waipahu Wells I, II, III, and IV; Kunia Wells I and II; and Waipio Heights Wells III.

Account	FY2017 Actual	FY2017 Adopted Budget	FY2018 Adopted Budget	FY2019 Proposed Budget	Change
4110 - Salaries & Wages	472,079	635,000	522,500	556,900	34,400
4120 - Overtime	135,507	120,000	144,000	144,000	0
4130 - Miscellaneous (Payroll)	0	6,000	6,000	13,000	7,000
Personnel Services	607,586	761,000	672,500	713,900	41,400
4160 - Meals; Mileage & Uniform Allowances	6,218	6,588	7,000	7,000	0
4460 - Other Materials & Supplies	41,827	33,800	34,000	36,000	2,000
4470 - Parts and Accessories	96,661	212,400	212,400	142,000	(70,400)
4500 - Education and Training	1,140	4,800	4,800	4,800	0
4720 - Conference Travel & Expenses	0	1,800	1,200	1,200	0
4815 - Repair & Maint - Equipment	0	12,000	12,000	12,000	0
4910 - Miscellaneous Fees & Registration	306	0	0	0	0
8050 - Equipment (under \$5,000)	3,254	66,300	87,000	59,000	(28,000)
Materials, Supplies and Services	149,405	337,688	358,400	262,000	(96,400)
1270 - General Plant & Equip (over \$5,000)	0	160,000	120,000	60,000	(60,000)
Equipment	0	160,000	120,000	60,000	(60,000)
Total District 1 Leeward West Section	756,991	1,258,688	1,150,900	1,035,900	(115,000)

Budget Highlights

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WSO - Water System Operations

5612 - District 2 Central/Windward Section

Section's Activity

District 2 consists of the stations on the windward, central, and north shore areas of the island from Waimanalo to Kahuku to Mokuleia to Mililani. Granular activated carbon filtration plants are located at Waialua Wells; Haleiwa Wells; and Mililani Wells I and III.

Account	FY2017 Actual	FY2017 Adopted Budget	FY2018 Adopted Budget	FY2019 Proposed Budget	Change
4110 - Salaries & Wages	501,316	577,800	585,100	648,800	63,700
4120 - Overtime	50,892	110,000	90,000	120,000	30,000
4130 - Miscellaneous (Payroll)	11,341	6,000	31,600	13,000	(18,600)
Personnel Services	563,549	693,800	706,700	781,800	75,100
4160 - Meals; Mileage & Uniform Allowances	3,607	5,688	6,100	6,100	0
4460 - Other Materials & Supplies	6,771	40,000	38,000	43,500	5,500
4470 - Parts and Accessories	98,132	90,000	72,000	92,200	20,200
4500 - Education and Training	540	4,800	4,800	4,800	0
4720 - Conference Travel & Expenses	0	1,800	1,200	1,200	0
4815 - Repair & Maint - Equipment	0	62,000	37,000	20,000	(17,000)
4910 - Miscellaneous Fees & Registration	306	0	0	0	0
8050 - Equipment (under \$5,000)	16,605	62,800	65,300	67,000	1,700
Materials, Supplies and Services	125,961	267,088	224,400	234,800	10,400
1270 - General Plant & Equip (over \$5,000)	0	0	10,000	0	(10,000)
Equipment	0	0	10,000	0	(10,000)
Total District 2 Central/Windward Section	689,511	960,888	941,100	1,016,600	75,500

Budget Highlights

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WSO - Water System Operations

5613 - District 3 Metropolitan Section

Section's Activity

District 3 consists of the stations in Metropolitan Honolulu from Kalihi to Makapuu.

Account	FY2017 Actual	FY2017 Adopted Budget	FY2018 Adopted Budget	FY2019 Proposed Budget	Change
4110 - Salaries & Wages	379,438	580,000	496,000	611,200	115,200
4120 - Overtime	43,348	60,000	60,000	80,000	20,000
4130 - Miscellaneous (Payroll)	0	6,000	6,000	12,000	6,000
Personnel Services	422,786	646,000	562,000	703,200	141,200
4160 - Meals; Mileage & Uniform Allowances	3,128	3,396	3,300	3,300	0
4410 - Gasoline	15	0	0	0	0
4460 - Other Materials & Supplies	16,372	17,900	17,900	17,900	0
4470 - Parts and Accessories	86,843	100,000	100,000	103,000	3,000
4500 - Education and Training	3,780	4,800	4,800	4,800	0
4720 - Conference Travel & Expenses	1,080	1,800	1,200	1,200	0
4815 - Repair & Maint - Equipment	11,395	27,000	12,000	12,000	0
8050 - Equipment (under \$5,000)	5,734	14,500	37,200	55,200	18,000
Materials, Supplies and Services	128,347	169,396	176,400	197,400	21,000
1270 - General Plant & Equip (over \$5,000)	0	25,000	30,000	50,000	20,000
Equipment	0	25,000	30,000	50,000	20,000
Total District 3 Metropolitan Section	551,133	840,396	768,400	950,600	182,200

Budget Highlights

**Board of Water Supply
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WSO - Water System Operations

5614 - District 4 Leeward East Section

Section's Activity

District 4 consists of the stations from Kalihi to Pearl City.

Account	FY2017 Actual	FY2017 Adopted Budget	FY2018 Adopted Budget	FY2019 Proposed Budget	Change
4110 - Salaries & Wages	484,890	580,000	593,400	669,700	76,300
4120 - Overtime	37,848	56,000	40,000	60,000	20,000
4130 - Miscellaneous (Payroll)	0	4,800	4,800	12,800	8,000
Personnel Services	522,738	640,800	638,200	742,500	104,300
4160 - Meals; Mileage & Uniform Allowances	2,883	4,616	5,650	5,650	0
4460 - Other Materials & Supplies	11,952	22,500	20,100	22,500	2,400
4470 - Parts and Accessories	113,330	74,000	70,000	87,200	17,200
4500 - Education and Training	1,080	4,800	4,800	4,800	0
4670 - Telemetering	78	0	0	0	0
4720 - Conference Travel & Expenses	0	1,800	1,200	1,200	0
4815 - Repair & Maint - Equipment	8,601	18,000	12,000	12,000	0
8050 - Equipment (under \$5,000)	25,550	53,300	80,500	64,300	(16,200)
Materials, Supplies and Services	163,474	179,016	194,250	197,650	3,400
1270 - General Plant & Equip (over \$5,000)	0	14,300	0	0	0
Equipment	0	14,300	0	0	0
Total District 4 Leeward East Section	686,212	834,116	832,450	940,150	107,700

Budget Highlights

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WSO - Water System Operations

5615 - Control Center

Section's Activity

Operates the department's island-wide water system on a 24/7 basis. Is responsible for maintaining proper system pressure and levels to meet the needs of our customers. Due to its round-the-clock operation, the Control Center has the responsibility of being the point of contact for the public outside of BWS regular working hours.

Account	FY2017 Actual	FY2017 Adopted Budget	FY2018 Adopted Budget	FY2019 Proposed Budget	Change
4110 - Salaries & Wages	550,448	655,300	631,800	674,400	42,600
4120 - Overtime	108,285	120,000	120,000	120,000	0
4130 - Miscellaneous (Payroll)	0	4,000	4,000	9,000	5,000
Personnel Services	658,732	779,300	755,800	803,400	47,600
4160 - Meals; Mileage & Uniform Allowances	4,724	6,000	6,000	6,000	0
4500 - Education and Training	0	4,800	4,800	4,800	0
4720 - Conference Travel & Expenses	0	1,800	1,200	1,200	0
8050 - Equipment (under \$5,000)	0	1,800	1,800	3,300	1,500
Materials, Supplies and Services	4,724	14,400	13,800	15,300	1,500
Total Control Center	663,456	793,700	769,600	818,700	49,100

Budget Highlights

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WSO - Water System Operations

5616 - Technical Services

Section's Activity

The Pumps and Technical Services Section operates, maintains, repairs, and installs air conditioners, exhaust blowers, fans, and electrical power at Beretania and the five outlying base yards; and maintains flow tubes.

Account	FY2017 Actual	FY2017 Adopted Budget	FY2018 Adopted Budget	FY2019 Proposed Budget	Change
4110 - Salaries & Wages	369,148	989,100	394,600	406,500	11,900
4120 - Overtime	20,893	48,000	60,000	48,000	(12,000)
4130 - Miscellaneous (Payroll)	0	4,800	4,800	9,800	5,000
Personnel Services	390,041	1,041,900	459,400	464,300	4,900
4160 - Meals; Mileage & Uniform Allowances	1,267	2,496	2,600	2,600	0
4250 - Other Contractual Services	3,568	0	0	0	0
4460 - Other Materials & Supplies	43,977	12,000	36,000	40,000	4,000
4470 - Parts and Accessories	27,731	108,000	60,000	60,000	0
4500 - Education and Training	810	4,800	4,800	4,800	0
4720 - Conference Travel & Expenses	0	1,800	1,200	1,200	0
4815 - Repair & Maint - Equipment	576	54,000	36,000	18,000	(18,000)
8050 - Equipment (under \$5,000)	94,081	45,900	123,900	94,300	(29,600)
Materials, Supplies and Services	172,010	228,996	264,500	220,900	(43,600)
1270 - General Plant & Equip (over \$5,000)	6,694	80,000	45,000	22,000	(23,000)
Equipment	6,694	80,000	45,000	22,000	(23,000)
Total Technical Services	568,745	1,350,896	768,900	707,200	(61,700)

Budget Highlights

**Board of Water Supply
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WSO - Water System Operations

5620 - Telecommunications

Section's Activity

The Telecommunications Section plans, modifies, adapts, installs, operates, maintains and repairs telecommunications equipment used in radio, microwave, supervisory control and telemetry networks covering the water distribution and pumping systems of the department, and industrial electronic equipment used in the operation of electrical pumping plants and underground pipe locating devices; designs multifunction telemetry and supervisory control systems and mobile radio systems.

Account	FY2017 Actual	FY2017 Adopted Budget	FY2018 Adopted Budget	FY2019 Proposed Budget	Change
4110 - Salaries & Wages	264,408	573,200	322,600	302,600	(20,000)
4120 - Overtime	11,892	36,000	36,000	36,000	0
4130 - Miscellaneous (Payroll)	21,078	15,200	15,200	12,000	(3,200)
Personnel Services	297,378	624,400	373,800	350,600	(23,200)
4160 - Meals; Mileage & Uniform Allowances	935	2,040	2,000	2,000	0
4250 - Other Contractual Services	46,256	102,000	102,000	96,000	(6,000)
4460 - Other Materials & Supplies	5,741	14,000	12,000	12,000	0
4470 - Parts and Accessories	105,638	72,000	72,000	72,000	0
4500 - Education and Training	0	2,400	2,400	2,400	0
4670 - Telemetering	200,383	240,000	240,000	240,000	0
4720 - Conference Travel & Expenses	0	1,100	1,200	1,200	0
4815 - Repair & Maint - Equipment	5,510	24,000	24,000	24,000	0
4910 - Miscellaneous Fees & Registration	50	0	0	0	0
8050 - Equipment (under \$5,000)	123,952	343,050	387,000	289,400	(97,600)
Materials, Supplies and Services	488,465	800,590	842,600	739,000	(103,600)
1270 - General Plant & Equip (over \$5,000)	0	189,000	303,000	303,000	0
Equipment	0	189,000	303,000	303,000	0
Total Telecommunications	785,843	1,613,990	1,519,400	1,392,600	(126,800)

Budget Highlights

**Board of Water Supply
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WSO - Water System Operations

5660 - Automotive

Section's Activity

The Automotive Section operates the maintenance and repair shops; prepares plans and specifications for the purchase of vehicles and special construction equipment; maintains and repairs vehicles, construction and special equipment; disposes of retired fleet equipment; maintains and constructs special tools and equipment; conducts research work in the automotive field.

Account	FY2017 Actual	FY2017 Adopted Budget	FY2018 Adopted Budget	FY2019 Proposed Budget	Change
4110 - Salaries & Wages	1,216,947	1,274,700	1,295,000	1,370,200	75,200
4120 - Overtime	14,024	13,000	13,000	13,000	0
4130 - Miscellaneous (Payroll)	3,891	16,900	16,900	31,900	15,000
Personnel Services	1,234,862	1,304,600	1,324,900	1,415,100	90,200
4160 - Meals; Mileage & Uniform Allowances	603	1,800	1,800	1,800	0
4250 - Other Contractual Services	154,084	183,400	187,700	187,700	0
4251 - Software Licenses and Maintenance	0	3,800	4,000	4,000	0
4267 - Printed forms	1,797	100	100	100	0
4280 - Refuse Collection & Disposal	0	0	0	0	0
4410 - Gasoline	505,406	910,000	823,200	803,200	(20,000)
4430 - Miscellaneous Supplies	764	1,200	1,200	1,200	0
4440 - Motor Vehicle Parts & Accessories	434,429	452,000	452,000	452,000	0
4460 - Other Materials & Supplies	90,845	94,900	99,900	99,900	0
4470 - Parts and Accessories	44,379	60,000	60,000	70,000	10,000
4480 - Postage	0	0	0	0	0
4500 - Education and Training	3,198	17,600	16,400	16,400	0
4720 - Conference Travel & Expenses	0	0	1,600	1,600	0
4805 - Repair & Maint - Structures	953	4,000	4,000	4,000	0
4815 - Repair & Maint - Equipment	51,301	80,000	80,000	90,000	10,000
4910 - Miscellaneous Fees & Registration	3,121	2,900	2,900	2,900	0
8050 - Equipment (under \$5,000)	3,368	6,300	7,500	10,500	3,000
Materials, Supplies and Services	1,294,246	1,818,000	1,742,300	1,745,300	3,000
1270 - General Plant & Equip (over \$5,000)	3,071,499	3,442,900	4,164,800	3,676,500	(488,300)
Equipment	3,071,499	3,442,900	4,164,800	3,676,500	(488,300)
Total Automotive	5,600,607	6,565,500	7,232,000	6,836,900	(395,100)

Budget Highlights

**Board of Water Supply
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IT - Information Technology

Division/Office's Activity

The Information Technology Division designs, develops, maintains, and supports BWS databases; software systems; server/workstation/mobile hardware and software; wired/wireless networks, voice/video and call center systems.

Account	FY2017 Actual	FY2017 Adopted Budget	FY2018 Adopted Budget	FY2019 Proposed Budget	Change
4110 - Salaries & Wages	2,822,847	3,285,400	3,031,400	3,629,400	598,000
4120 - Overtime	179,343	284,000	254,500	218,400	(36,100)
4130 - Miscellaneous (Payroll)	50	41,300	43,800	12,000	(31,800)
Personnel Services	3,002,240	3,610,700	3,329,700	3,859,800	530,100
4160 - Meals; Mileage & Uniform Allowances	1,154	3,600	3,600	3,600	0
4250 - Other Contractual Services	4,560,237	5,024,956	5,287,900	7,024,937	1,737,037
4251 - Software Licenses and Maintenance	1,851,972	2,476,866	2,223,648	2,208,360	(15,288)
4265 - Printing	3,398	0	0	0	0
4270 - Professional Services	4,000	0	0	0	0
4430 - Miscellaneous Supplies	2,655	5,600	5,000	4,150	(850)
4460 - Other Materials & Supplies	111,717	111,100	114,300	122,800	8,500
4470 - Parts and Accessories	11,768	10,400	24,000	12,500	(11,500)
4480 - Postage	111,291	1,000,000	700,000	711,275	11,275
4500 - Education and Training	177,331	277,450	157,600	139,600	(18,000)
4650 - Security Camera - Cable Line Services	42,489	0	0	0	0
4720 - Conference Travel & Expenses	29,113	85,915	76,600	83,360	6,760
4815 - Repair & Maint - Equipment	267,665	243,350	267,450	263,850	(3,600)
4910 - Miscellaneous Fees & Registration	499	500	500	620	120
8050 - Equipment (under \$5,000)	985,688	700,123	633,720	1,414,575	780,855
Materials, Supplies and Services	8,160,977	9,939,860	9,494,318	11,989,627	2,495,309
1270 - General Plant & Equip (over \$5,000)	846,751	420,000	350,000	371,000	21,000
Equipment	846,751	420,000	350,000	371,000	21,000
Total IT - Information Technology	12,009,967	13,970,560	13,174,018	16,220,427	3,046,409

Notes

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IT - Information Technology

5805 - IT Administration

Section's Activity

The Administration Section provides strategic planning, technology management, policy direction, cyber security program management and administrative support services for the Information Technology Division

Account	FY2017 Actual	FY2017 Adopted Budget	FY2018 Adopted Budget	FY2019 Proposed Budget	Change
4110 - Salaries & Wages	326,756	407,700	391,400	403,900	12,500
4130 - Miscellaneous (Payroll)	50	0	0	0	0
Personnel Services	326,806	407,700	391,400	403,900	12,500
4160 - Meals; Mileage & Uniform Allowances	0	0	0	0	0
4250 - Other Contractual Services	114,580	250,000	475,000	455,000	(20,000)
4251 - Software Licenses and Maintenance	91,465	25,000	0	0	0
4430 - Miscellaneous Supplies	232	1,200	1,200	1,200	0
4460 - Other Materials & Supplies	7,708	3,600	3,600	3,600	0
4500 - Education and Training	3,164	16,800	1,600	1,600	0
4720 - Conference Travel & Expenses	3,007	31,715	18,500	15,900	(2,600)
4910 - Miscellaneous Fees & Registration	499	500	500	620	120
8050 - Equipment (under \$5,000)	0	0	0	5,000	5,000
Materials, Supplies and Services	220,655	328,815	500,400	482,920	(17,480)
Total IT Administration	547,461	736,515	891,800	886,820	(4,980)

Budget Highlights

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IT - Information Technology

5820 - Application Systems Development

Section's Activity

The Application Systems Development Section is responsible for providing application and data management services for all enterprise systems of the department including, customer information system, water and sewer billings, financial/HR (payroll, accounts payable and cost accounting, time tracking, etc.), laboratory information, asset maintenance and workforce management

Account	FY2017 Actual	FY2017 Adopted Budget	FY2018 Adopted Budget	FY2019 Proposed Budget	Change
4110 - Salaries & Wages	756,341	958,200	907,200	1,009,300	102,100
4120 - Overtime	108,577	222,000	172,500	142,400	(30,100)
4130 - Miscellaneous (Payroll)	0	24,000	24,000	12,000	(12,000)
Personnel Services	864,919	1,204,200	1,103,700	1,163,700	60,000
4160 - Meals; Mileage & Uniform Allowances	271	3,600	3,600	3,600	0
4250 - Other Contractual Services	1,839,253	2,400,800	1,900,800	3,571,000	1,670,200
4251 - Software Licenses and Maintenance	517,679	1,056,400	1,130,000	1,166,500	36,500
4430 - Miscellaneous Supplies	42	1,200	1,200	1,200	0
4460 - Other Materials & Supplies	3,502	0	0	0	0
4500 - Education and Training	103,240	188,300	88,300	63,300	(25,000)
4720 - Conference Travel & Expenses	8,577	15,900	13,100	24,600	11,500
Materials, Supplies and Services	2,472,562	3,666,200	3,137,000	4,830,200	1,693,200
1270 - General Plant & Equip (over \$5,000)	48,985	0	0	0	0
Equipment	48,985	0	0	0	0
Total Application Systems Development	3,386,466	4,870,400	4,240,700	5,993,900	1,753,200

Budget Highlights

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IT - Information Technology

5830 - Computer Operations

Section's Activity

The Operations Support Branch is responsible for planning, scheduling, administrating and coordinating the department's network and computer services operations (machine processing), and infrastructure operations, update and maintenance. Included in this is wired, wireless network devices/services, servers, workstations and mobile devices, cloud based services, etc.

Account	FY2017 Actual	FY2017 Adopted Budget	FY2018 Adopted Budget	FY2019 Proposed Budget	Change
4110 - Salaries & Wages	1,153,029	1,116,800	1,078,800	1,285,000	206,200
4120 - Overtime	68,832	58,000	78,000	72,000	(6,000)
4130 - Miscellaneous (Payroll)	0	0	0	0	0
Personnel Services	1,221,861	1,174,800	1,156,800	1,357,000	200,200
4160 - Meals; Mileage & Uniform Allowances	707	0	0	0	0
4250 - Other Contractual Services	2,081,038	1,824,156	2,362,100	2,488,937	126,837
4251 - Software Licenses and Maintenance	996,388	1,143,866	856,748	801,035	(55,713)
4270 - Professional Services	4,000	0	0	0	0
4430 - Miscellaneous Supplies	2,328	2,700	2,100	1,250	(850)
4460 - Other Materials & Supplies	98,927	106,300	109,500	118,000	8,500
4470 - Parts and Accessories	11,768	10,400	24,000	12,500	(11,500)
4480 - Postage	111,291	1,000,000	700,000	711,275	11,275
4500 - Education and Training	63,437	57,350	52,700	62,700	10,000
4650 - Security Camera - Cable Line Services	42,489	0	0	0	0
4720 - Conference Travel & Expenses	8,053	11,500	17,500	17,500	0
4815 - Repair & Maint - Equipment	263,541	239,250	262,850	259,250	(3,600)
8050 - Equipment (under \$5,000)	985,688	696,823	630,420	1,406,275	775,855
Materials, Supplies and Services	4,669,654	5,092,345	5,017,918	5,878,722	860,804
1270 - General Plant & Equip (over \$5,000)	797,765	410,000	335,000	356,000	21,000
Equipment	797,765	410,000	335,000	356,000	21,000
Total Operations Support	6,689,281	6,677,145	6,509,718	7,591,722	1,082,004

Budget Highlights

**Board of Water Supply
Operating Budget
Fiscal Year 2019**

IT - Information Technology

5835 - Technical Projects

Section's Activity

The Technical Engineering Projects (TEP) Branch plans, designs, installs, implements, manages, maintains and supports Board of Water Supply (BWS) Geographic Information System and spacial database. TEP also manages and maintains the BWS hydraulic models for currency and accuracy, in conjunction with Water Resources.

Account	FY2017 Actual	FY2017 Adopted Budget	FY2018 Adopted Budget	FY2019 Proposed Budget	Change
4110 - Salaries & Wages	586,720	802,700	654,000	931,200	277,200
4120 - Overtime	1,934	4,000	4,000	4,000	0
4130 - Miscellaneous (Payroll)	0	17,300	19,800	0	(19,800)
Personnel Services	588,654	824,000	677,800	935,200	257,400
4160 - Meals; Mileage & Uniform Allowances	176	0	0	0	0
4250 - Other Contractual Services	525,367	550,000	550,000	510,000	(40,000)
4251 - Software Licenses and Maintenance	246,440	251,600	236,900	240,825	3,925
4265 - Printing	3,398	0	0	0	0
4430 - Miscellaneous Supplies	53	500	500	500	0
4460 - Other Materials & Supplies	1,581	1,200	1,200	1,200	0
4500 - Education and Training	7,490	15,000	15,000	12,000	(3,000)
4720 - Conference Travel & Expenses	9,477	26,800	27,500	25,360	(2,140)
4815 - Repair & Maint - Equipment	4,125	4,100	4,600	4,600	0
8050 - Equipment (under \$5,000)	0	3,300	3,300	3,300	0
Materials, Supplies and Services	798,105	852,500	839,000	797,785	(41,215)
1270 - General Plant & Equip (over \$5,000)	0	10,000	15,000	15,000	0
Equipment	0	10,000	15,000	15,000	0
Total Technical Engineering Projects	1,386,759	1,686,500	1,531,800	1,747,985	216,185

Budget Highlights

**Board of Water Supply
Operating Budget
Fiscal Year 2019**

FIN - Finance

Division/Office's Activity

The Finance Division is responsible for controlling and directing the financial accounting activities of the department. Activities include conducting financial studies; administering long-term bonded debt programs and bond sales; assisting in controlling budgeted expenditures; and administering the general accounting systems including cost accounting, payroll, leave records, and accounts payable.

Account	FY2017 Actual	FY2017 Adopted Budget	FY2018 Adopted Budget	FY2019 Proposed Budget	Change
4110 - Salaries & Wages	2,103,819	2,770,200	2,606,900	2,780,800	173,900
4120 - Overtime	158,344	279,600	270,700	262,440	(8,260)
4130 - Miscellaneous (Payroll)	13,147	148,300	123,200	112,850	(10,350)
Personnel Services	2,275,310	3,198,100	3,000,800	3,156,090	155,290
4160 - Meals; Mileage & Uniform Allowances	15,451	11,600	12,800	16,450	3,650
4220 - Collection Fees	420	0	400	400	0
4250 - Other Contractual Services	7,259	41,000	9,100	37,600	28,500
4260 - Advertising & Publication of Notices	0	1,000	0	0	0
4267 - Printed forms	9,063	0	3,000	9,000	6,000
4270 - Professional Services	928,289	1,409,500	976,500	1,761,200	784,700
4410 - Gasoline	161	0	0	0	0
4430 - Miscellaneous Supplies	13,009	10,000	11,000	16,000	5,000
4460 - Other Materials & Supplies	2,610	6,000	5,200	4,200	(1,000)
4480 - Postage	11,911	17,000	15,000	15,000	0
4500 - Education and Training	4,651	13,200	6,500	7,600	1,100
4720 - Conference Travel & Expenses	2,145	8,900	10,300	6,680	(3,620)
4815 - Repair & Maint - Equipment	6,754	4,000	4,000	4,000	0
4910 - Miscellaneous Fees & Registration	3,388	4,200	1,640	1,300	(340)
4915 - Miscellaneous Financial Expenses	846,433	1,340,000	937,500	701,500	(236,000)
8050 - Equipment (under \$5,000)	3,144	28,300	32,100	4,600	(27,500)
Materials, Supplies and Services	1,854,689	2,894,700	2,025,040	2,585,530	560,490
1270 - General Plant & Equip (over \$5,000)	103,599	107,600	51,000	36,000	(15,000)
Equipment	103,599	107,600	51,000	36,000	(15,000)
Total FIN - Finance	4,233,597	6,200,400	5,076,840	5,777,620	700,780

Notes

**Board of Water Supply
Operating Budget
Fiscal Year 2019**

FIN - Finance

5900 - Finance Administration

Section's Activity

Develop, provide and manage budget, financial and administrative support services to all levels of the department.

Account	FY2017 Actual	FY2017 Adopted Budget	FY2018 Adopted Budget	FY2019 Proposed Budget	Change
4110 - Salaries & Wages	341,402	325,200	345,600	361,500	15,900
4120 - Overtime	0	100	500	200	(300)
Personnel Services	341,402	325,300	346,100	361,700	15,600
4250 - Other Contractual Services	538	5,000	1,000	29,500	28,500
4260 - Advertising & Publication of Notices	0	1,000	0	0	0
4270 - Professional Services	384,981	664,500	176,500	405,000	228,500
4430 - Miscellaneous Supplies	9,519	9,000	10,000	15,000	5,000
4460 - Other Materials & Supplies	83	0	0	0	0
4480 - Postage	0	2,000	0	0	0
4500 - Education and Training	4,651	3,200	3,000	3,600	600
4720 - Conference Travel & Expenses	2,145	8,900	7,800	3,120	(4,680)
4815 - Repair & Maint - Equipment	1,344	1,000	1,000	1,000	0
4910 - Miscellaneous Fees & Registration	2,660	4,200	320	340	20
4915 - Miscellaneous Financial Expenses	5,000	0	0	0	0
8050 - Equipment (under \$5,000)	0	1,000	2,000	0	(2,000)
Materials, Supplies and Services	410,921	699,800	201,620	457,560	255,940
Total Finance Administration	752,322	1,025,100	547,720	819,260	271,540

Budget Highlights

**Board of Water Supply
Operating Budget
Fiscal Year 2019**

FIN - Finance

5910 - Treasury

Section's Activity

The Treasury Section administers and manages the long term bonded debt and federal loan programs; obtains other long term and short term financing as necessary; manages the department's cash flows; and administers and oversees the management of the department's investment program.

Account	FY2017 Actual	FY2017 Adopted Budget	FY2018 Adopted Budget	FY2019 Proposed Budget	Change
4110 - Salaries & Wages	172,365	231,600	175,300	183,100	7,800
4120 - Overtime	2,787	10,800	5,000	2,000	(3,000)
Personnel Services	175,153	242,400	180,300	185,100	4,800
4160 - Meals; Mileage & Uniform Allowances	70	500	500	50	(450)
4270 - Professional Services	543,308	745,000	800,000	865,200	65,200
4460 - Other Materials & Supplies	0	0	200	200	0
4720 - Conference Travel & Expenses	0	0	2,000	2,000	0
4910 - Miscellaneous Fees & Registration	0	0	320	160	(160)
4915 - Miscellaneous Financial Expenses	838,383	1,340,000	936,000	700,000	(236,000)
Materials, Supplies and Services	1,381,761	2,085,500	1,739,020	1,567,610	(171,410)
Total Treasury	1,556,914	2,327,900	1,919,320	1,752,710	(166,610)

Budget Highlights

**Board of Water Supply
Operating Budget
Fiscal Year 2019**

FIN - Finance

5915 - Rev & Cust Accounting Section

Section's Activity

The Revenue and Customer Accounting Section conducts the department's billing operations and related functions which include meter reading, Pre-auditing of consumer accounts, part-rate billing, maintaining consumer records, maintaining accounts receivable and keeping special fund accounts; maintains revenue accounting and statistical reports.

Account	FY2017 Actual	FY2017 Adopted Budget	FY2018 Adopted Budget	FY2019 Proposed Budget	Change
4110 - Salaries & Wages	998,744	1,327,900	1,189,000	1,292,400	103,400
4120 - Overtime	150,191	245,000	245,000	245,000	0
4130 - Miscellaneous (Payroll)	980	51,700	0	0	0
Personnel Services	1,149,915	1,624,600	1,434,000	1,537,400	103,400
4160 - Meals; Mileage & Uniform Allowances	15,131	11,000	12,000	16,000	4,000
4250 - Other Contractual Services	6,721	36,000	8,100	8,100	0
4410 - Gasoline	161	0	0	0	0
4430 - Miscellaneous Supplies	2,017	1,000	1,000	1,000	0
4460 - Other Materials & Supplies	2,517	4,000	4,000	4,000	0
4480 - Postage	11,911	15,000	15,000	15,000	0
4500 - Education and Training	0	1,000	1,000	1,000	0
4815 - Repair & Maint - Equipment	5,410	3,000	3,000	3,000	0
8050 - Equipment (under \$5,000)	1,651	22,500	24,100	2,100	(22,000)
Materials, Supplies and Services	45,519	93,500	68,200	50,200	(18,000)
1270 - General Plant & Equip (over \$5,000)	103,599	107,600	51,000	36,000	(15,000)
Equipment	103,599	107,600	51,000	36,000	(15,000)
Total Rev	1,299,033	1,825,700	1,553,200	1,623,600	70,400

Budget Highlights

**Board of Water Supply
Operating Budget
Fiscal Year 2019**

FIN - Finance

5930 - General Accounting

Section's Activity

The General Accounting Section directs and coordinates the development, functional effectiveness and maintenance of accounting systems, records, procedures and reports to ensure the acquisition of valid and consistent data for use in planning and budgeting, performance control and evaluation, managerial decisions and reporting requirements; prepares monthly financial and statistical reports and studies; prepares payrolls and maintains leave records; audits and processes disbursement vouchers; maintains all property records and depreciation schedules; coordinates annual physical inventory of utility plant and prepares annual listing as required by City Charter; prepares and analyzes special reports and studies.

Account	FY2017 Actual	FY2017 Adopted Budget	FY2018 Adopted Budget	FY2019 Proposed Budget	Change
4110 - Salaries & Wages	492,416	617,200	604,000	630,800	26,800
4120 - Overtime	4,487	20,700	16,200	10,440	(5,760)
4130 - Miscellaneous (Payroll)	11,158	96,600	73,200	62,800	(10,400)
Personnel Services	508,061	734,500	693,400	704,040	10,640
4160 - Meals; Mileage & Uniform Allowances	250	100	300	300	0
4220 - Collection Fees	420	0	400	400	0
4250 - Other Contractual Services	0	0	0	0	0
4267 - Printed forms	9,063	0	3,000	9,000	6,000
4430 - Miscellaneous Supplies	1,474	0	0	0	0
4460 - Other Materials & Supplies	10	0	0	0	0
4500 - Education and Training	0	1,000	500	3,000	2,500
4720 - Conference Travel & Expenses	0	0	500	1,560	1,060
4910 - Miscellaneous Fees & Registration	728	0	1,000	800	(200)
4915 - Miscellaneous Financial Expenses	3,050	0	1,500	1,500	0
8050 - Equipment (under \$5,000)	1,494	4,800	2,500	1,500	(1,000)
Materials, Supplies and Services	16,488	5,900	9,700	18,060	8,360
Total General Accounting	524,549	740,400	703,100	722,100	19,000

Budget Highlights

**Board of Water Supply
Operating Budget
Fiscal Year 2019**

FIN - Finance

5940 - Fiscal Services

Section's Activity

The Fiscal Services Branch is responsible for reporting on budgetary, encumbrance and financial activities within the department. This branch records and reconciles all contract and claims encumbrances with the City annually at fiscal year-end; controls, edits and monitors reports on encumbrances extensions, insufficient funds and accounts payable; Fiscal Services maintains and coordinates an on-line vendor table (data file) for approximately 50,000 vendors for field and central use. This branch assigns vendor codes for all payment documents for timely and accurate payment processing. The administration of the purchasing card program for the procurement of goods and services is also a part of this branch's responsibilities. Fiscal Services designs hard copy and electronic encumbrance liquidation and payment forms for departmental use and submittal to Accounts Payable.

Account	FY2017 Actual	FY2017 Adopted Budget	FY2018 Adopted Budget	FY2019 Proposed Budget	Change
4110 - Salaries & Wages	57,459	202,600	226,100	243,300	17,200
4120 - Overtime	565	1,500	2,000	2,800	800
4130 - Miscellaneous (Payroll)	1,009	0	50,000	50,000	0
Personnel Services	59,033	204,100	278,100	296,100	18,000
4160 - Meals; Mileage & Uniform Allowances	0	0	0	100	100
4250 - Other Contractual Services	0	0	0	0	0
4270 - Professional Services	0	0	0	0	0
4460 - Other Materials & Supplies	(0)	2,000	1,000	0	(1,000)
8050 - Equipment (under \$5,000)	0	0	3,500	1,000	(2,500)
Materials, Supplies and Services	(0)	2,000	4,500	1,100	(3,400)
Total Fiscal Services	59,033	206,100	282,600	297,200	14,600

Budget Highlights

**Board of Water Supply
Operating Budget
Fiscal Year 2019**

FIN - Finance

5950 - Systems Accounting

Section's Activity

This System Accounting section is responsible for the planning, coordination, modification and administration of the financial management system for the BWS. This section spearheads initiatives and projects to troubleshoot the organization's financial systems.

Account	FY2017 Actual	FY2017 Adopted Budget	FY2018 Adopted Budget	FY2019 Proposed Budget	Change
4110 - Salaries & Wages	41,432	65,700	66,900	69,700	2,800
4120 - Overtime	313	1,500	2,000	2,000	0
4130 - Miscellaneous (Payroll)	0	0	0	50	50
Personnel Services	41,746	67,200	68,900	71,750	2,850
4270 - Professional Services	0	0	0	491,000	491,000
4500 - Education and Training	0	8,000	2,000	0	(2,000)
Materials, Supplies and Services	0	8,000	2,000	491,000	489,000
Total Systems Accounting	41,746	75,200	70,900	562,750	491,850

Budget Highlights

**Board of Water Supply
Operating Budget
Fiscal Year 2019**

FC - Fixed Charges and Debt Service

Section's Activity

The activity represents fixed charges and non-divisional expenditures of a general nature not related to any divisional budget.

Account	FY2017 Actual	FY2017 Adopted Budget	FY2018 Adopted Budget	FY2019 Proposed Budget	Change
4610 - Electric Power - Water Distrib Fac	18,438,049	28,500,000	21,000,000	22,000,000	1,000,000
4620 - Electricity	981,091	1,614,000	900,000	1,100,000	200,000
4660 - Wastewater Service Charges	115,921	112,800	110,000	110,000	0
5600 - Central Admin Service Exp (CASE) Fees	3,300,000	3,300,000	3,300,000	3,300,000	0
6010 - Employee Retirement Sys (ERS)	6,867,808	6,000,000	8,000,000	7,200,000	(800,000)
6020 - FICA Contributions	2,639,640	2,700,000	2,800,000	2,900,000	100,000
6100 - Health Benefits - Employees	2,825,940	3,336,000	3,300,000	3,235,957	(64,043)
6200 - Health Benefits - Retirees	5,236,157	6,300,000	5,700,000	5,369,224	(330,776)
6250 - Other Post-Emplymnt Ben (OPEB)	6,000,000	6,000,000	3,000,000	2,575,776	(424,224)
6320 - Unemployment Insurance Benefits	55,189	55,200	56,000	56,000	0
Departmental Fixed Charges	46,459,796	57,918,000	48,166,000	47,846,957	(319,043)
4670 - Telemetering	13,300	0	0	0	0
Materials, Supplies and Services	13,300	0	0	0	0
1810 - Bonds Payable	27,037,558	29,252,000	8,550,000	8,820,000	270,000
1820 - Notes Payable - State Revolving Funds (SRF)	0	0	13,647,000	3,780,000	(9,867,000)
7071 - Bond Interest	9,553,275	9,613,000	9,451,000	9,057,000	(394,000)
Debt Service	36,590,833	38,865,000	31,648,000	21,657,000	(9,991,000)
Total Fixed Charges and Debt Service	83,063,929	96,783,000	79,814,000	69,503,957	(10,310,043)

Budget Highlights

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PART II

CAPITAL IMPROVEMENT PROGRAM BUDGET

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Board of Water Supply
Capital Improvement Program Budget
FY 2019

Summary by Categories	Operating Fund	Operating Fund SRF Eligible	Special Expendable Fund	Total
I. Research and Development	4,400,000	-	-	4,400,000
II. Renewal and Replacement				
A. Pumps	4,025,000	-	-	4,025,000
B. Reservoirs	5,100,000	-	-	5,100,000
C. Pipeline	41,440,000	7,470,000	-	48,910,000
D. Treatment	2,100,000	-	-	2,100,000
E. Facilities	31,950,000	-	-	31,950,000
Category II - sub-total	84,615,000	7,470,000	-	92,085,000
III. Capacity Expansion				
A. Pumps	-	-	-	-
B. Reservoirs	-	-	17,170,000	17,170,000
C. Pipeline	-	-	1,000,000	1,000,000
D. Treatment	-	-	-	-
E. Facilities	5,200,000	-	-	5,200,000
Category III - sub-total	5,200,000	-	18,170,000	23,370,000
Categories I - III	94,215,000	7,470,000	18,170,000	119,855,000
Construction Cost Index Adjustment	7,142,000	747,000	1,717,000	9,606,000
Contract Adjustment Account	9,000,000	-	-	9,000,000
FY 2019 CIP Program - Total	110,357,000	8,217,000	19,887,000	138,461,000

Board of Water Supply
Capital Improvement Program Budget
FY 2019

Project No.	Project Title	Description	Type	Operating Fund	Operating Fund - SRF Eligible	Special Expendable Fund	TOTAL
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I. Research and Development

1.	Construction Management For Various BWS Construction Projects	Provide construction management and training services for selected BWS construction projects.	P&E	2,300,000	-	-	2,300,000
2.	Project and Program Management For Various BWS Projects	Provide project management, engineering and training services for selected BWS projects.	P&E	2,000,000	-	-	2,000,000
3.	Pipeline Condition Assessment	Condition assessment of transmission pipelines as identified by the InfoMaster decision framework.	P&E	100,000	-	-	100,000
Total Category I - Research and Development				4,400,000	-	-	4,400,000

Board of Water Supply
Capital Improvement Program Budget
FY 2019

Project No.	Project Title	Description	Type	Operating Fund	Operating Fund - SRF Eligible	Special Expendable Fund	TOTAL
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II. Renewal and Replacement

A. Pumps

4.	Pump Station Instrumentation and Control Upgrade	Upgrade instrumentation and control equipment at various pump stations.	Const	100,000	-	-	100,000
5.	Pump Renewal and Replacement	Renewal and replacement of various BWS pumps and plant facilities.	Const	3,500,000	-	-	3,500,000
6.	Kunia Wells III	Install well station improvements at Kunia Wells III facility.	P&E	175,000	-	-	175,000
7.	Waipio Heights Wells and Wells I	Install well station improvements at Waipio Heights Wells and Wells I facility.	P&E	150,000	-	-	150,000
8.	Pump Renewal and Replacement	Renewal and replacement of various BWS pumps and plant facilities.	P&E	100,000	-	-	100,000
A. Pumps - Total				4,025,000	-	-	4,025,000

B. Reservoirs

9.	Waialae Iki 180 Reservoir Repairs	Install new reservoir post-tensioning system, repair concrete cracks and repaint reservoir.	Const	2,560,000	-	-	2,560,000
10.	Waimanalo 230 Reservoir Repairs	Install new reservoir post-tensioning system, repair concrete cracks, reroof and repaint reservoir.	Const	2,540,000	-	-	2,540,000
B. Reservoirs - Total				5,100,000	-	-	5,100,000

Board of Water Supply
Capital Improvement Program Budget
FY 2019

Project No.	Project Title	Description	Type	Operating Fund	Operating Fund - SRF Eligible	Special Expendable Fund	TOTAL
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C. Pipelines

11.	Ala Aolani: 12-Inch Water Main	Install 16-inch mains and appurtenances along Ala Aolani Street, from 16-inch cross-country main to Ala Hoku Place – approx. 2,180 lin. ft. Install 12-inch mains and appurtenances along Ala Aolani Street, from Ala Hoku Place to Ala Lani Place – approx. 2,060 lin. ft. Install 8-inch mains and appurtenances along Ala Aolani Street, from Ala Aolani Street to Ala Aolani Street – approx. 1,770 lin. ft. Install 8-inch and 4-inch mains and appurtenances along Ala Mahina Place, from Ala Aolani Loop to end; and along Ala Makani Place, from Ala Aolani Loop to end – approx. 1,060 lin. ft. Install 4-inch mains and appurtenances along Ala Aolani Place, from Ala Aolani Loop to end; and along Ala Makani Way, from Ala Makani Place to end – approx. 240 lin. ft.	Const	6,500,000	-	-	6,500,000
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Board of Water Supply
Capital Improvement Program Budget
FY 2019

Project No.	Project Title	Description	Type	Operating Fund	Operating Fund - SRF Eligible	Special Expendable Fund	TOTAL
12.	Puhawai Road, Kuwale Road And Puuhulu Road Water System Improvements	Install 8-inch mains and appurtenances along Puhawai Road, from Puuhulu Road to Paheehee Road; along Wikolia Place, from Puhawai Road to end; along Puuhulu Road, from Puhawai Road to Kuwale Road; along Kuwale Road, from Puuhulu Road to 340 South of Paheehee Road; along Haama Place, from Puuhulu Road to end; along Puululu Place, from Puuhulu Road to end; and along the side street, from Kuwale Road to end – approx. 10,550 lin. ft.	Const	7,900,000	-	-	7,900,000
13.	Lanakila Water System Improvements	Install 8-inch mains and appurtenances along Lanakila Avenue, from Keola Street to Kunawai Lane, along North Judd Street, from Kunawai Lane to Liliha Street; and along Alaneo Street, from North School Street to FH M02071 - approx. 3,175 lin. ft. Install 8-inch and 4-inch mains and appurtenances along Kamaka Lane, from Lanakila Avenue to end; and along Lanakila Avenue, from North Kuakini Street to private lane - approx. 275 lin. ft.	Const	3,100,000	-	-	3,100,000

Board of Water Supply
Capital Improvement Program Budget
FY 2019

Project No.	Project Title	Description	Type	Operating Fund	Operating Fund - SRF Eligible	Special Expendable Fund	TOTAL
14.	Lunalilo Home Road Water System Improvements	Install 12-inch mains and appurtenances along Kalapaki Street, from 995 Kalapaki Street to Lunalilo Home Road; and along Lunalilo Home Road, from Kalapaki Street to Kamiloiki Place - approx. 2,580 lin. ft. Install 8-inch mains and appurtenances along Lunalilo Home Road, from near FH M06787 to Kolokolo Place; along Kolokolo Street, from Kolokolo Place to Lunalilo Home Road; along Kolokolo Place, from Kolokolo Street to end; and along Kamiloiki Place, from Lunalilo Home Road to FH M06783 - approx. 5,520 lin. ft.	Const	-	6,370,000	-	6,370,000
15.	Pensacola Street 8-Inch Main, Kinau Street to Young Street	Install 8-inch mains and appurtenances along Pensacola Street, from Kinau Street to Young Street - approx. 650 lin. ft.	Const	850,000	-	-	850,000

Board of Water Supply
Capital Improvement Program Budget
FY 2019

Project No.	Project Title	Description	Type	Operating Fund	Operating Fund - SRF Eligible	Special Expendable Fund	TOTAL
16.	Pacific Heights Water System Improvements, Part II	Install 12-inch mains and appurtenances along Pacific Heights Road, from Pacific Heights 578' Reservoir to existing 12-inch main; along Pacific Heights Road, from Haili Road to Ahekol Street; along Ahekol Street, from Pacific Heights Road to Booth Road; and along Booth Road, from Ahekol Street to Polulani Place – approx. 4,700 lin. ft. Install 8-inch and 4-inch mains and appurtenances along Haili Road, from Pacific Heights Road to end; along Laniloa Road, from Pacific Heights Road to end; along Pacific Heights Place, from Pacific Heights Road to end; along Hiolani Place, from Booth Road to end; along Polulani Place, from Booth Road to end; and along various private lanes – approx. 3,800 lin. ft.	Const	6,800,000	-	-	6,800,000
17.	Waiau Water System Improvements, Part II	Install 12-inch mains and appurtenances along Kaahumanu Street, from Komo Mai Drive to Hookanike Street - approx. 1,650 lin. ft.	Const	1,230,000	-	-	1,230,000
18.	Rehabilitation of Pipeline and Tunnel: Makapuu Tunnel	Rehabilitate tunnel and pipeline, install security fencing and repair tunnel lighting at Makapuu Tunnel.	Const	-	1,100,000	-	1,100,000

Board of Water Supply
Capital Improvement Program Budget
FY 2019

Project No.	Project Title	Description	Type	Operating Fund	Operating Fund - SRF Eligible	Special Expendable Fund	TOTAL
19.	Installation of Fire Hydrants at Various Locations in Kailua	Install fire hydrants and appurtenance along Auwinala Road, from Awakea Road to Wanaao Road; along Wanaao Road, from Auwinala Road to Kailua Road; along Aumoe Road, from Wanaao Road to Pauli Road; along Pauli Road, from Wanaao Road to Aumoe Road; along Awakea Road, from Wanaao Road to Aumoe Road; along Kailua Road, from Wanaao Road to S. Kalaheo Avenue; along Kuukama Street, from S. Kalaheo Avenue to End; along Kuuhale Street, from Kuuala Street to S. Kainalu Drive; along Kuupua Street, from Kuuala Street to S. Kainalu Drive; along Kuuala Street, from Kuukama Street to Kuupua Street; along S. Kainalu Street, from Kailua Road to Kuulei Road; along N. Kainalu Street, from Kuulei Road to Palapu Street; along Kuulei Road, from S. Kalaheo Avenue to Maluniu Avenue; along Ohana Street, from N. Kainalu Drive to Makua Street; along Makua Street, from N. Kainalu Drive to Ohana Street; along Makawao Street, from N. Kainalu Drive to N. Kalaheo Avenue; along Ulupa Street, from N. Kainalu Drive to N. Kalaheo Avenue; along Mookua Street, from N. Kainalu Drive to N. Kalaheo Avenue; along Kapaa Street, from N. Kainalu Drive to N. Kalaheo Avenue; along Kaluamoo Street, from N. Kainalu Drive to N. Kalaheo Avenue; along Kaimi Street, from N. Kainalu Drive to N. Kalaheo Avenue; along Palapu Street, from N. Kainalu Drive to N. Kalaheo Avenue; and along Uluoa Street, from Manu Aloha Street to Kailua Road – approx. 59 fire hydrants.	Const	2,360,000	-	-	2,360,000

Board of Water Supply
Capital Improvement Program Budget
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Project No.	Project Title	Description	Type	Operating Fund	Operating Fund - SRF Eligible	Special Expendable Fund	TOTAL
20.	Installation of Fire Hydrants at Various Locations, Part C	Install fire hydrants and appurtenances along Hoowali Street, from Hookala Street to Wahinani Street; along Hoolauna Street, from Hookala Street to Wahinani Street; along Hookano Street, from Hookala Street to Nanakai Street; along Hookala Street, from Hoowali Street to Hoolaulea Street; along Wahinani Street, from Waimano Home Road to Hookano Street; along Hoomalu Street, from Waimano Home Road to Nanakai Street; along Hoolaulea Street, from Waimano Home Road to Nanakai Street; and along Hookahi Street, from Hoolaulea Street to Hoolaulea Street – approx. 15 fire hydrants.	Const	600,000	-	-	600,000
21.	School Street Box Drain Repair	Repair box drain along South School Street, near the Barron Lane intersection, damaged during a 24-inch main break repair.	Const	200,000	-	-	200,000
22.	Service Lateral Replacement at Various Locations	Replace water service laterals at various locations.	Const	1,000,000	-	-	1,000,000
23.	Kuahea Street Water System Improvements, Waiomao Road to 2373 Kuahea Street	Install 4-inch and 2-1/2 inch mains and appurtenances along Kuahea Street, from Waiomao Road to 2373 Kuahea Street - approx. 785 lin. ft.	Const	280,000	-	-	280,000
24.	Water Main Installation & Replacement	Install and replace water mains at various locations.	Const	100,000	-	-	100,000

Board of Water Supply
Capital Improvement Program Budget
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Project No.	Project Title	Description	Type	Operating Fund	Operating Fund - SRF Eligible	Special Expendable Fund	TOTAL
25.	Farrington Highway 24-Inch Main Rehabilitation	Prepare feasibility study to evaluate pipe rehabilitation technologies for the inactive 24-inch main along Farrington Highway, to provide Waianae with a redundant transmission main for water service reliability.	P&E	750,000	-	-	750,000
26.	Water System Improvements at Various Locations in Manoa	Install 12-inch mains and appurtenances along Woodlawn Dr, from Woodlawn Terrance Place to Alani Dr; along Alani Dr, from Woodlawn Dr to E. Manoa Rd; along E. Manoa Rd, from Alani Dr to Pakuna St; along Pakuna St, from E. Manoa Rd to Pawaina St; along Pawaina St, from Pakuna St to Oahu Ave; along Oahu Ave, from Pawaina St to Kumu St; along Kumu St, from Oahu Ave to Kumulani St; along Huelani Dr, from Keahi St to Rainbow Dr; along Rainbow Dr, from Huelani Dr to Oahu Ave; along Oahu Ave, from Rainbow Dr to Manoa Rd; along Manoa Rd, from Oahu Ave to Komaia Dr; along Komaia Dr, from Manoa Rd to Komaia Place; along Komaia Place, from Komaia Dr to Puuhonua St; along Puuhonua St, from Komaia Place to Ferdinand Ave; along Ferdinand Ave, from Puuhonua St to Aleo Place; and along Aleo Place, from Ferdinand Ave to Sonoma St - approx. 15,005 lin. ft. Install 8-inch mains and appurtenances along Kahawai St, from Huapala St to Lowrey Ave; and along Lowrey Ave, from Kahawai St to near Manoa Stream, along Kalawahine Place, from Mott-Smith Dr to end; and along Melemele Place, from Paty Dr to end - approx. 2,320 lin. ft.	P&E	1,500,000	-	-	1,500,000

Board of Water Supply
Capital Improvement Program Budget
FY 2019

Project No.	Project Title	Description	Type	Operating Fund	Operating Fund - SRF Eligible	Special Expendable Fund	TOTAL
27.	Kamehameha Highway 16-Inch Main Relocation, Hauula Homestead Road Vicinity	Install 16-Inch mains and appurtenances along Kamehameha Highway, from near FH W02899 to near FH W01491 - approx. 325 lin. ft.	P&E	180,000	-	-	180,000
28.	Farrington Highway Water System Improvements, Waipahu Depot Road Vicinity	Install 8-inch mains and appurtenances along Farrington Highway, from Makamaka Place to Awamoku Street; along Waipahu Depot Street, from Farrington Highway to Waipahu Street; along Waipahu Street, from Waipahu Depot Street to FH L00328; and along Mokuola Street, from Farrington Highway to Hikimoe Street - approx. 7,290 lin. ft.	P&E	790,000	-	-	790,000
29.	Kamehameha Highway Water System Improvements, Pupukea Road Vicinity	Install 16-inch mains and appurtenances along Kamehameha Highway, from Pupukea Road to 550 feet South of FH C00497 - approx. 2,430 lin. ft. Install 8-inch mains and appurtenances along Kamehameha Highway, from Pupukea Road to FH C00497 - approx. 1,910 lin. ft. Install 4-inch mains and appurtenances along Kupaoa Place, from Kamehameha Highway to end - approx. 130 lin. ft.	P&E	520,000	-	-	520,000

Board of Water Supply
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Project No.	Project Title	Description	Type	Operating Fund	Operating Fund - SRF Eligible	Special Expendable Fund	TOTAL
30.	Kilihau Street, Ahua Street and Kakoi Street 12-inch and 8-Inch Mains	Install 12-inch and 8-inch mains and appurtenances along Kilihau Street, from Ahua Street to end; and along Kakoi Street, from Kilihau Street to end - approx. 2,790 lin. ft. Install 8-inch mains and appurtenances along Ahua Street, from Kilihau Street to Mokumoa Street - approx. 2,330 lin. ft.	P&E	510,000	-	-	510,000
31.	Paleka Road and Waikalua Road Area Water System Improvements	Install 16-inch mains and appurtenances along Paleka Road, from Anoi Road to Kamehameha Highway - approx. 2,155 lin. ft. Install 8-inch mains and appurtenances along Waikalua Road, from Kamehameha Highway to Waikalua Place; along Waikapoki Road, from Waikalua Road to Wailele Road; and along Halemuku Street, from Waikalua Road to Halemuku Place - approx. 5,090 lin. ft. Install 8-inch and 4-inch mains and appurtenances along Halemuku Place, from Halemuku Street to end - approx. 805 lin. ft.	P&E	740,000	-	-	740,000
32.	Mailiili Road 20-Inch Main, Paakea Road to Lualualei Homestead Road	Install 20-inch mains and appurtenances along Mailiili Road, from Paakea Road to Lualualei Homestead Road - approx. 3,800 lin. ft.	P&E	420,000	-	-	420,000

Board of Water Supply
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Project No.	Project Title	Description	Type	Operating Fund	Operating Fund - SRF Eligible	Special Expendable Fund	TOTAL
33.	Kahilina Place and Aiea Heights Drive Area Water System Improvements	Install 8-inch mains and appurtenances along Kahilina Place, from Aiea Heights Drive to end; along Aiea Heights Drive, from Hoio Street to Aiea 277 Reservoir; along Aieahe Street, from Kanaloa Street to Aiea Heights Drive; and along Hakina Street, from Kanaloa Street to Kaulaina Place - approx. 4,070 lin. ft.	P&E	390,000	-	-	390,000
34.	Aliipoe Drive and Paihi Street Area Water System Improvements	Install 8-inch mains and appurtenances along Aliipoe Drive, from near FH L00776 to Pohue Street; along Paihi Street, from Aliipoe Drive to Pohue Street; along Hukaa Street, from Paihi Street to Pohue Street; along Iwaiwa Street, from Hukaa Street to Pohue Street; along Pohue Place, from Pohue Street to end; and along Pohuli Street, from Paihi Street to end - approx. 5,715 lin. ft.	P&E	560,000	-	-	560,000

Board of Water Supply
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Project No.	Project Title	Description	Type	Operating Fund	Operating Fund - SRF Eligible	Special Expendable Fund	TOTAL
35.	Keana Road Area Water System Improvements	Install 8-inch mains and appurtenances along Keana Road, from Kaneohe Bay Drive to Namoku Street; and along Hikiwale Street, from Keana Road to Hikiwale Place - approx. 2,150 lin. ft. Install 8-inch and 4-inch mains and appurtenances along Nohonani Place, from Kaneohe Bay Drive to end; along Hikiwale Place, from Hikiwale Street to end; along Namoku Street, from Neepapa Place to FH W01130; along Neepu Place, from Namoku Street to end; and along Awele Place, from Namoku Street to end - approx. 3,140 lin. ft.	P&E	490,000	-	-	490,000
36.	Paiko Drive 8-Inch Main	Install 8-inch mains and appurtenances along Paiko Drive, from Kalaniana'ole Highway to near FH M02768 - approx. 900 lin. ft.	P&E	160,000	-	-	160,000
37.	Waiapo Place, Waihua Place and Waimomona Place Water System Improvements	Install 8-inch mains and appurtenances along Kolowaka Drive, from Waiapo Place to Waimomona Place - approx. 610 lin. ft. Install 8-inch and 4-inch mains and appurtenances along Waiapo Place, from Kolowaka Drive to end; along Waihua Place, from Kolowaka Drive to end; along Waimomona Place, from Kolowaka Drive to end - approx. 2,190 lin. ft.	P&E	290,000	-	-	290,000

Board of Water Supply
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Project No.	Project Title	Description	Type	Operating Fund	Operating Fund - SRF Eligible	Special Expendable Fund	TOTAL
38.	Waikalua Road Water System Improvements	Install 8-inch mains and appurtenances along Holowai Street, from Waikalua Road to Holowai Place - approx. 170 lin. ft. Install 8-inch and 4-inch mains and appurtenances along Waikalua Road, from Waikalua Place to end; along Holowai Place, from Holowai Street to end; and along Oopuhue Place, from Holowai Place to end - approx. 2,660 lin. ft.	P&E	320,000	-	-	320,000
39.	Kaneohe Bay Drive and Kamehameha Highway Water System Improvements	Install 16-inch mains and appurtenances along Kamehameha Highway, from Kolokio Street to Kaneohe Bay Drive - approx. 1,225 lin. ft. Install 12-inch mains and appurtenances along Kaneohe Bay Drive, from Kamehameha Highway to Pu'aa'e Road; along Kamehameha Highway, from Kaneohe Bay Drive to Luluku Road; and along Luluku Road, from Apapane Street to Kamehameha Highway - approx. 5,570 lin. ft.	P&E	740,000	-	-	740,000

Board of Water Supply
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Project No.	Project Title	Description	Type	Operating Fund	Operating Fund - SRF Eligible	Special Expendable Fund	TOTAL
40.	Farrington Highway Water System Improvements, Hookele Street Vicinity	Install 12-inch mains and appurtenances along Farrington Highway, from Manununu Street to Hookele Street; and along Hookele Street, from Farrington Highway to Waapuhi Street - approx. 3,310 lin. ft. Install 8-inch mains and appurtenances along Kulaaupuni Street, from St. Johns Road to Mamoalii Place; along Manuulaula Street, from Manuaihue Street to Manuu Street; along Manununu Street, from Farrington Highway to Manuu Street; along Hookele Street, from Waapuhi Street to Heleuma Street; and along Laulele Street, from Heleuma Street to Waapuhi Street - approx. 3,895 lin. ft. Install 8-inch and 4-inch mains and appurtenances along St. Johns Road, from Manuaihue Street to end; along Mamoalii Place, from Kulaaupuni Street to end; along Mamoalii Way, from Mamoalii Place to end; along Manuu Street, from Manuulaula Street to end; along Maipalaoa Road, from Farrington Highway to end; along Meaulu Road, from Maipalaoa Road to end; along Heleuma Street, from Hookele Street to end; and along Hookele Place, from Hookele Street to end - approx. 6,900 lin. ft.	P&E	1,410,000	-	-	1,410,000

Board of Water Supply
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Project No.	Project Title	Description	Type	Operating Fund	Operating Fund - SRF Eligible	Special Expendable Fund	TOTAL
41.	Water Sampling Stations at Various Locations	Install water sampling stations at various locations.	P&E	500,000	-	-	500,000
42.	Service Lateral Replacement at Various Locations	Topographic Survey for the service lateral replacement at various locations.	P&E	150,000	-	-	150,000
43.	Water Main Installation & Replacement	Install and replace water mains at various locations.	P&E	100,000	-	-	100,000
C. Pipelines - Total				41,440,000	7,470,000	-	48,910,000
<u>D. Treatment</u>							
44.	GAC Facility Improvements	Install improvements at select GAC facilities to extend use of existing systems.	Const	500,000	-	-	500,000
45.	GAC Interior Corrosion Control at Various Locations	Perform interior corrosion control of selected BWS GAC facilities.	Const	1,500,000	-	-	1,500,000
46.	GAC Facility Improvements	Install improvements at select GAC facilities to extend use of existing systems.	P&E	100,000	-	-	100,000
D. Treatment - Total				2,100,000	-	-	2,100,000

Board of Water Supply
Capital Improvement Program Budget
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Project No.	Project Title	Description	Type	Operating Fund	Operating Fund - SRF Eligible	Special Expendable Fund	TOTAL
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E. Facilities

47.	Water Meter Transponders Replacement - Phase II	Replace existing water meter transponders (MXU) by furnishing and installing approximately 80,000 MXU. Construction management services funding included for this project.	P&E Const	1,000,000 15,000,000	- -	- -	1,000,000 15,000,000
48.	RTU Upgrades	Replace obsolete RTUs. Existing RTUs do not support wireless system communications	Const	400,000	-	-	400,000
49.	Security Fencing at Diamond Head 180 Reservoir	Install security fencing along the perimeter of the site.	Const	1,200,000	-	-	1,200,000
50.	Security Improvements at Various Locations	Security improvements and enhancements includes, but not limited to fencing, doors and windows, vegetation setbacks and access control systems, at various BWS locations.	Const	4,000,000	-	-	4,000,000
51.	Facility Repair and Renovation	Repair, renovation, reroofing, fencing and repainting of selected BWS facilities.	Const	1,400,000	-	-	1,400,000
52.	Facility Reroofing at Various Locations	Reroofing of selected BWS facilities.	Const	1,500,000	-	-	1,500,000
53.	Facility Painting at Various Locations	Repainting of selected BWS facilities.	Const	1,000,000	-	-	1,000,000
54.	Facility Repaving at Various Locations	Repaving of selected BWS facilities.	Const	1,000,000	-	-	1,000,000

Board of Water Supply
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Project No.	Project Title	Description	Type	Operating Fund	Operating Fund - SRF Eligible	Special Expendable Fund	TOTAL
55.	Facility Piping and Valve Replacement at Various Locations	Replace piping and valves at selected BWS facilities.	Const	2,000,000	-	-	2,000,000
56.	Nuuanu Reservoir No. 1 Dam Improvements	Perform geotechnical exploration and analysis, prepare plans and specifications for proposed improvements to Nuuanu Reservoir No. 1 dam; and acquire necessary permits.	P&E	1,000,000	-	-	1,000,000
57.	Security Improvements at Various Locations	Security improvements and enhancements including, but not limited to fencing, doors and windows, vegetation setbacks and access control systems, at various BWS locations.	P&E	1,000,000	-	-	1,000,000
58.	Monitoring Well Assessment and Repair	Provide well condition assessment and associated repair services for monitor wells.	P&E	200,000	-	-	200,000
59.	Beretania Complex Electrical Survey	Comprehensive survey of the electrical system at Beretania Complex, including electrical as-built drawings.	P&E	150,000	-	-	150,000
60.	Facility Repair and Renovation	Repair, renovation, reroofing, fencing and repainting of selected BWS facilities.	P&E	800,000	-	-	800,000
61.	Professional Services for BWS Projects	Obtain services of archaeologists, botanists, environmental engineers, water quality labs, planners, government agencies and others.	P&E	300,000	-	-	300,000
E. Facilities - Total				31,950,000	-	-	31,950,000

Board of Water Supply
Capital Improvement Program Budget
FY 2019

Project No.	Project Title	Description	Type	Operating Fund	Operating Fund - SRF Eligible	Special Expendable Fund	TOTAL
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Total Category II - Renewal and Replacement

84,615,000 7,470,000 - 92,085,000

III. Capacity Expansion

A. Pumps

A. Pumps - Total

- - - -

B. Reservoirs

62.	Kalawahine 180 2.0 MG Reservoir	Install 2.0 MG reservoir and appurtenances (TMK: 2-4-043:082) and 24-inch main along Auwaiolimu Street and Pensacola Street to Kinau Street - approx. 4,700 lin. ft.	Const	-	-	17,170,000	17,170,000
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B. Reservoirs - Total

- - 17,170,000 17,170,000

Board of Water Supply
Capital Improvement Program Budget
FY 2019

Project No.	Project Title	Description	Type	Operating Fund	Operating Fund - SRF Eligible	Special Expendable Fund	TOTAL
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C. Pipelines

63.	Ala Moana Boulevard 24-Inch Main, Ala Wai Canal to Kalakaua Avenue	Install 24-inch mains and appurtenances along Ala Moana Boulevard, from Ala Wai Canal to Kalakaua Avenue - approx. 3,300 lin. ft. Install 12-inch mains and appurtenances along Ena Road, from Kalakaua Avenue to Ala Moana Boulevard; and along Kalia Road, from Ala Moana Boulevard to Paoa Place - approx. 1,770 lin. ft. Install 8-inch mains and appurtenances along Hobron Lane, from Ala Moana Boulevard to Ena Road; along Lipeepee Street, from Ala Wai Boulevard to Hobron Lane; and along Kaloo Drive, from Hobron Lane to Hobron Lane - approx. 3,170 lin. ft.	P&E	-	-	1,000,000	1,000,000
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C. Pipelines - Total				-	-	1,000,000	1,000,000
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D. Treatment

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D. Treatment - Total				-	-	-	-

Board of Water Supply
Capital Improvement Program Budget
FY 2019

Project No.	Project Title	Description	Type	Operating Fund	Operating Fund - SRF Eligible	Special Expendable Fund	TOTAL
E. Facilities							
64.	Wireless & Security Camera System Upgrades	Install computer network-based security camera systems (camera, lights, speakers and motion detectors) at critical pump stations and reservoirs.	Const	800,000	-	-	800,000
65.	Kapolei Base Yard and Brackish Water Desalination Facility	Construct administration building, warehouse, truck port and parking lot.	Const	3,000,000	-	-	3,000,000
66.	Beretania Complex Office Building and Parking Structure	Construct new Beretania office building and parking structure located on the eastside employee parking lot.	P&E	1,400,000	-	-	1,400,000
E. Facilities - Total				5,200,000	-	-	5,200,000
Total Category III - Capacity Expansion				5,200,000	-	18,170,000	23,370,000
Total Categories I - III				94,215,000	7,470,000	18,170,000	119,855,000
Construction Cost Index Adjustment				7,142,000	747,000	1,717,000	9,606,000
Contract Adjustment Account				9,000,000	-	-	9,000,000
FY 2019 Capital Improvement Program Total				110,357,000	8,217,000	19,887,000	138,461,000

APPROVAL
OF MINUTES

Approval of the Minutes of the Regular Meeting held on April 23, 2018

MOTION
TO APPROVE

Dave Hulihee and Ray Soon motioned and seconded, respectively, to approve the Minutes of the Regular Session Meeting of April 23, 2018. The motion was unanimously carried.

APPROVAL
OF MINUTES

Approval of the Minutes of the Budget Workshop Meeting held on May 14, 2018

MOTION
TO APPROVE

Dave Hulihee and Jade Butay motioned and seconded, respectively, to approve the Minutes of the Budget Workshop Meeting of May 14, 2018. The motion was unanimously carried.

Chair Andaya called for a motion to Adopt Resolution No. 887, 2018. Mr. Lau pointed out that the Board already voted on it during the Public Hearing. Mr. Lau asked Li Li, Deputy Corporation Counsel, if the motion and action by the Board during the Public Hearing was adequate to satisfy action during the Regular Board Meeting for the adoption of the budget. Mr. Li confirmed that the motion and action by the Board was adequate. To be sure, another motion was called.

MOTION TO
ADOPT
RESOLUTION
NO. 887, 2018

Dave Hulihee motioned to adopt Resolution No. 887, 2018, Adopting the Operating and Capital Improvement Program Budget for the Fiscal Year 2018-2019 and Appropriating Funds Therefor, seconded by Ray Soon. The motion was unanimously carried.

ITEM FOR INFORMATION NO. 1

"May 29, 2018

WATER RATE
AND PUBLIC
HEARINGS
UPDATE

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

Chair and Members:

Subject: Update on the Water Rate Study and Public Hearings Held
on April 26, May 14, May 15, and May 24, 2018

Joe Cooper, Waterworks Controller, and David Ebersold of CDM Smith, will present an update of our Water Rate Study and the Public Hearings held on April 26, May 14, May 15, and May 24, 2018.

Respectfully submitted,

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

Attachment"

The foregoing was for information only.

DISCUSSION:

Kathleen Pahinui, Communications Office Information Officer; Joe Cooper, Waterworks Controller; and Ellen Kitamura, Deputy Manager and Chief Engineer provided the presentation.

Ms. Pahinui gave a brief update on public input received during the outreach process. Four Public Hearings were held at various areas in the community. Written and telephone comments were also received. The public was also reached through neighborhood board presentations, special interest group presentations; BWS also briefed several City Council members.

Ms. Pahinui stated that extensive outreach into the media was also done. Mr. Lau was interviewed on 13 different radio interviews, and a couple of TV appearances.

Mr. Lau stated that they will update the Board at the June Board Meeting on further outreach efforts. At that time, the minutes for each of the four Public Hearings will be presented. Mr. Lau also stated that, if the Board is comfortable, he hopes to move forward with a possible Public Hearing in July 2018, for potential adoption of the proposed water rates and charges.

Ms. Sproat asked if any thought was given into doing a webcast, or something of that sort, during a different time of the day. Ms. Pahinui

responded that she will look into it, although government gets criticized because most public meetings are held during the work day.

Ms. Pahinui thanked her staff for working so hard during the public outreach process.

Joe Cooper, Waterworks Controller, gave an update on the Water System Facilities Charge (WSFC). He explained that the WSFC is a one-time fee for new customers or developers when they initially connect to the water system. Because some of the structure of this fee has changed, additional outreach to the stakeholders needs to be done, especially to the agriculture group. The Board will then be updated, and guidance will be sought on how to proceed. After the proposed rate package is adopted, between July and September, BWS will move toward adoption of the new WSFC. Mr. Lau stated that the last time the WSFC was updated was in 1993.

Ms. Kitamura gave her presentation on the WSFC subsidies. Ms. Kitamura stated that information previously presented to the Board was obtained from the Department of Planning and Permitting (DPP), the Office of Housing, the Department of Community Services, and the Department of Land Management. The numbers averaged at about 950 units per year with a combination of single-family, multi-unit, and homeless for approximately \$1.4 million in potential waivers to the WSFC. Ms. Kitamura explained that if BWS instead limited the amount of units to 500, it would come to approximately \$931,350 in potential WSFC waivers.

Ms. Kitamura stated that about 150 units potentially need fire sprinkler retrofits. This was identified by DPP. Approximately 25 percent of those units already have fire meters. Based on the last ordinance passed by the City Council, the decision to install fire sprinklers will be left to the homeowner association. Due to the high cost, DPP and the Fire Department estimate that 20 to 40 percent will take advantage of fire sprinkler retrofit waivers.

Mr. Lau commented that there has been discussion of the installation charge versus the WSFC impact fee. Feedback from developers at various meetings indicated that the WSFC would be more of an incentive for them to develop affordable housing or homeless projects. Mr. Lau added that it is easier to document and calculate fixture unit counts for affordable and homeless units, based on building plans submitted to BWS.

Mr. Lau suggested making the WSFC waiver program end after five years so that it works with the proposed five-year water rates. Unlike the proposed rates, however, this program would sunset at the end of the five years and will not be automatically carried forward.

Ms. Sproat suggested using the actual amount of fixture units per dwelling unit to increase flexibility and to be able to monitor how the program is working out. Ms. Kitamura responded that that would complicate it more because of the wide range of fixture units in a dwelling unit.

Mr. Lau commented that the proposed waivers would only apply to affordable units, not market units nor commercial mixed units. The waiver will also apply to homeless projects. Mr. Lau stated that the homeless projects are a challenge to determine fixture units due to the different possible approaches that would be involved. For example, a homeless unit might consist of a room with no bathroom and sink, and could have a common kitchen area and restroom facilities.

Board Member Soon stated that the City Council passed Ordinance 18-1. Mr. Lau added that Bill 59 was the incentives bill. Mr. Soon suggested that BWS get a clear definition of the ordinance and lock in on it so that BWS is not doing more or less than the other departments. Ms. Kitamura responded that the ordinance went through several iterations, so she will look at it more closely.

Mr. Andaya stated that this is just for information. Adoption will not take place until June or July. Mr. Lau concurred and stated that as part of the draft rate package, he hopes to have a more detailed proposal for the Board at the June Board Meeting. Mr. Lau added that at the Public Hearings, they disclosed that the waivers are being considered. Details were not provided to allow for flexibility.

Mr. Andaya thanked everyone involved in the outreach process. He expressed his appreciation of the team sacrificing their evenings with their families and other personal commitments.

WATER FOR LIFE

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



Board of Water Supply
City and County of Honolulu

Board Update Water Rate Study and Public Hearings

Kathleen Pahinui, Information Officer

Joe Cooper, Waterworks Controller

David Ebersold, CDM Smith

BWS Water Master Plan Project

May 29, 2018

Learn More at a
Public Hearing Near You

All Hearings: 6:30 – 8:30 PM	
Honolulu	Thursday, April 26 <i>Mission Memorial Auditorium</i> 550 South King St., Honolulu 96813
Kapolei	Monday, May 14 <i>Kapolei Hale, ground floor conference room</i> 1000 Uluohia Street, Kapolei 96707
Kaneohe	Tuesday, May 15 <i>Benjamin Parker Elementary School Cafeteria</i> 45-259 Waikalua Road, Kaneohe 96744
Mililani	Thursday, May 24 <i>Mililani Recreation Center #5</i> 95-1101 Ainamakua Drive, Mililani 96789

Water Rates Public Hearing

A G E N D A

6:00 PM	Doors Open Information Stations Open
6:40 PM	Presentation
7:10 PM	Q&A Testimony
8:30 PM	Doors Close



- Stations featuring Rates, Pipes, CIP, Conservation
- Welcome by Board Chair & Manager



- Presentation, Q&A followed by Testimony

Summary of Public Hearing Input

- ◆ 65 attendees total (4 public hearings)
 - All 4 meetings will be televised on Olelo at least 3 times and the video being posted to the BWS website
- ◆ Question & Answer
 - Dozens of questions across a wide range of issues
 - Most not related to proposed rates
- ◆ Testimony
 - 4 speakers opposing changes to residential rates
- ◆ Other comments
 - Information provided and conduct of public hearing changed my position from oppose to support

Other Public Input

- 18 written comments (letters, email, web)
- 4 telephone comments

Support proposed changes	Oppose proposed changes	Comment not related to proposed rates
1	13	8

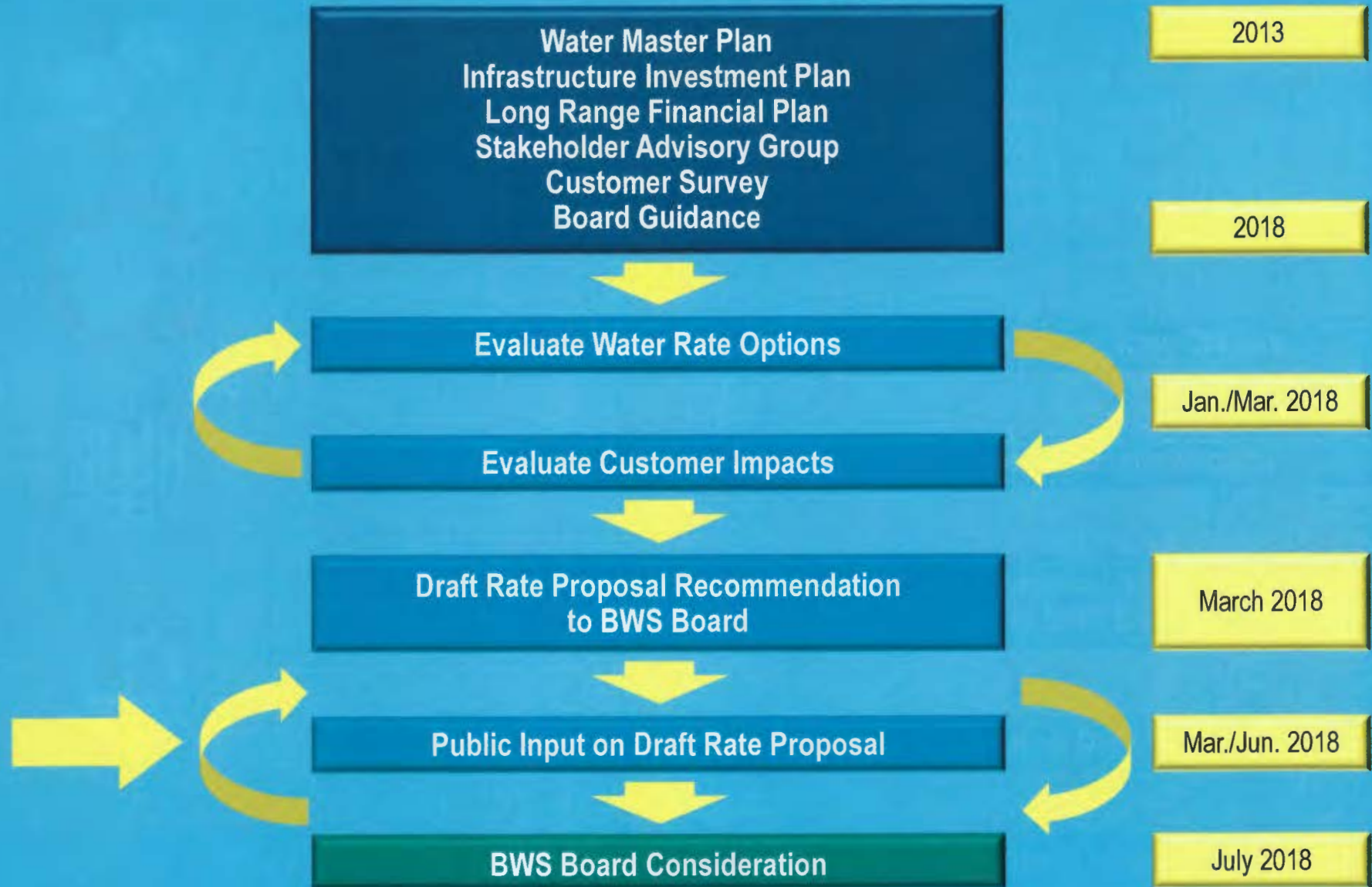
Other Public Outreach

- ◆ 8 Neighborhood Board presentations as of 5/23/18
 - Approximately 270 attendees
 - 7 presentations planned for June 2018
 - 3 tentative for June or July 2018
- ◆ 10 Special Interest Group presentations
 - Honolulu Board of Realtors
 - Hawaii Chamber of Commerce Infrastructure Committee
 - 2 AARP Committees
 - Fresh Water Council
 - Developers: MW Group, DR Horton, Stanford Carr, BIA
 - 2 meetings with Farmers including the Farm Bureau
 - Letters to be sent to hotels by SAG member Matt Bailey
 - Meetings planned with HECO and Golf Course Managers

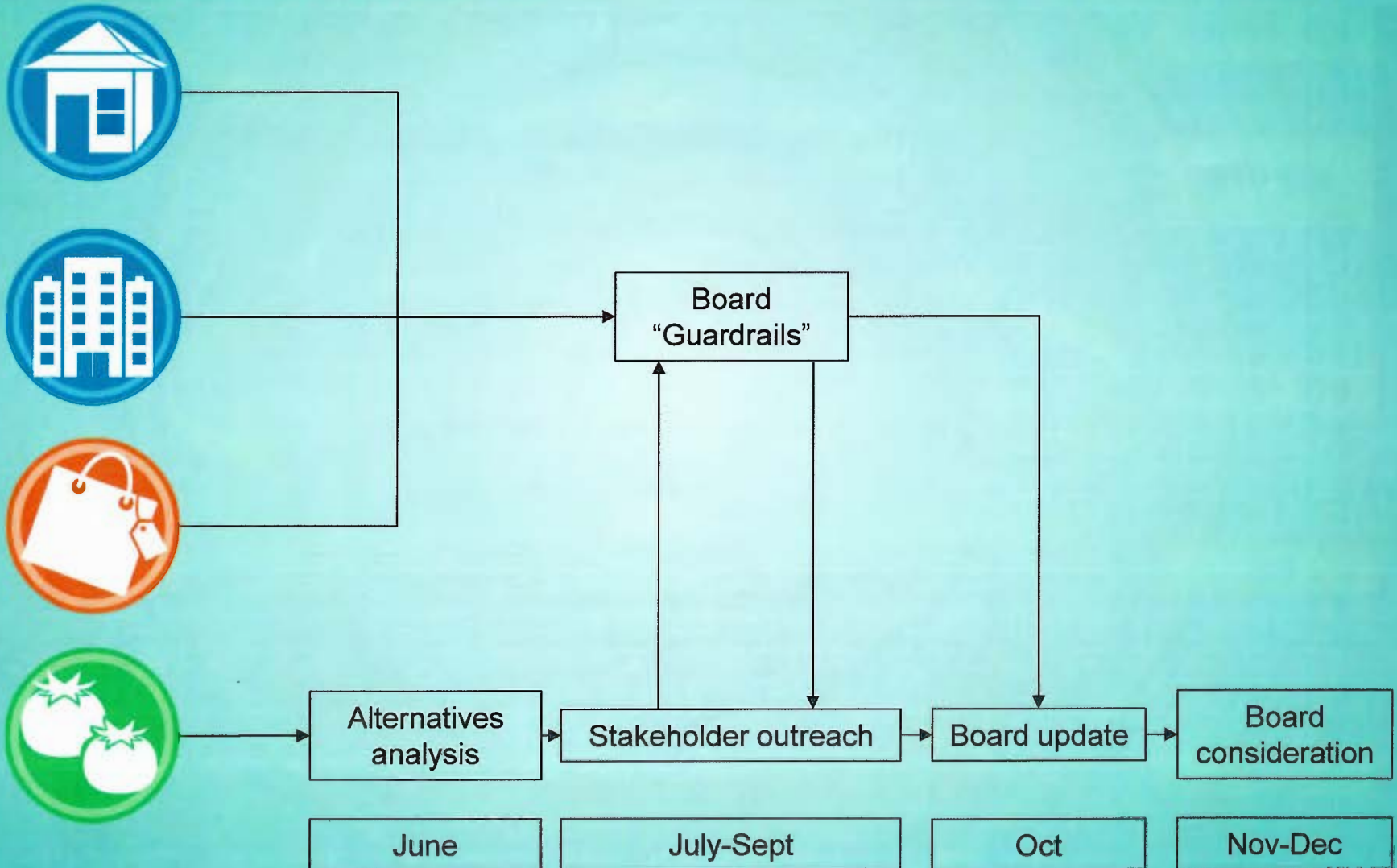
Other Public Outreach

- ◆ 6 City Council Member briefings
- ◆ Briefing to City Cabinet on June 19, 2018
- ◆ 13 Radio Interviews
 - Rick Hamada - KHVH
 - Michael W Perry – KSSK
 - HPR The Conversation
- ◆ Broad media coverage
 - 3 articles in the Star Advertiser
 - KHON Morning Show / KHON Living 808
 - League of Women Voters Show on Olelo
- ◆ Website visits (as of May 23, 2018)
 - 567 page views of rates
 - 417 unique visits

Process Overview



Water System Facilities Charge Process Timeline



Estimated Annual BWS Water System Facilities Charge (WSFC) Subsidy

Description	fxtu/du*	WSFC/du	Total du/yr	Total WSFC
Single Family	20	\$ 3,710	10	\$37,100
Multi-Unit	9	\$1,840	455	\$837,200
Homeless	8	\$ 1,630	35	\$57,050
ESTIMATED ANNUAL HOUSING SUBSIDY			500	\$931,350
Fire Sprinklers Retrofit	NA	NA	NA	\$40,300
ESTIMATED ANNUAL SUBSIDY				\$971,650

* fxtu/du = fixture unit/dwelling unit

WATER FOR LIFE

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



Board of Water Supply
City and County of Honolulu

Mahalo!

Questions & Answers



ITEM FOR INFORMATION NO. 2

Quarterly Capital Improvement Program Status Report
All Divisions

Quarter Awarded	JUL - SEP		OCT - DEC		JAN - MAR		APR - JUN		Awarded to Date	Total Budgeted
Design Contracts Awarded (#/\$)	0	\$0.00	7	\$3,829,259.13	1	\$451,806.32	0	\$0.00	\$4,281,065.45	\$16,420,000.00
Land Aquisitions (#/\$)	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	\$2,000,000.00
Construction Contracts Awarded (#/\$)	4	\$878,797.15	11	\$19,618,458.83	1	\$191,710.00	0	\$0.00	\$20,688,965.98	\$94,348,000.00
Project Totals	4	\$878,797.15	18	\$23,447,717.96	2	\$643,516.32	0	\$0.00	\$24,970,031.43	\$112,768,000.00
Quarter Completed	JUL - SEP		OCT - DEC		JAN - MAR		APR - JUN		Totals	
Design Contracts Completed (#/\$)	5	\$1,537,731.00	1	89,240.00	1	\$77,088.00	0	\$0.00	\$1,704,059.00	
Construction Contracts Completed (#/\$)	0	\$0.00	2	\$1,099,583.99	1	\$1,210,690.92	0	\$0.00	\$2,310,274.91	
Totals	5	\$1,537,731.00	3	\$1,188,823.99	2	\$1,287,778.92	0	\$0.00	\$4,014,333.91	
Ongoing Projects										
Ongoing Design Projects (#)	211									
Ongoing Design Projects (\$)	\$73,513,024.15									
Ongoing Construction Projects (#)	112									
Ongoing Construction Projects (\$)	\$214,974,988.33									

Quarterly Capital Improvement Program Status Report
All Divisions

DESIGN AND CONSTRUCTION PROJECTS AWARDED - THIRD QUARTER FY 2018

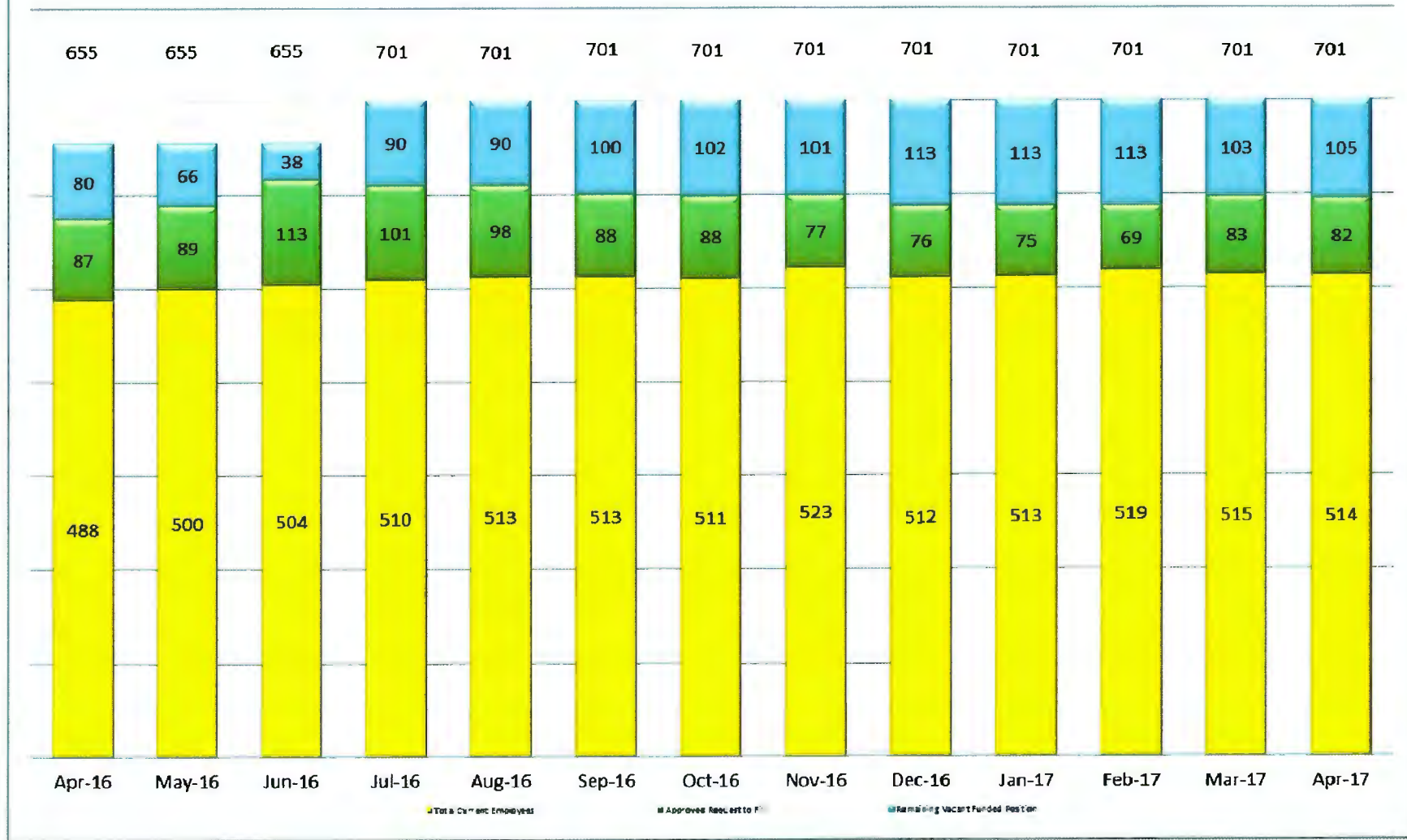
Item #	Project Title	Expend Type	Budget Amount	Awarded
017Q	Mililani Wells III: Backwash Line Replacement	CONST	\$191,710.00	\$191,710.00
033	McArthur Street 8-Inch Main	P & E	160,000.00	451,806.32
3rd Quarter totals			\$351,710.00	\$643,516.32

DESIGN AND CONSTRUCTION PROJECTS COMPLETED - THIRD QUARTER FY 2018

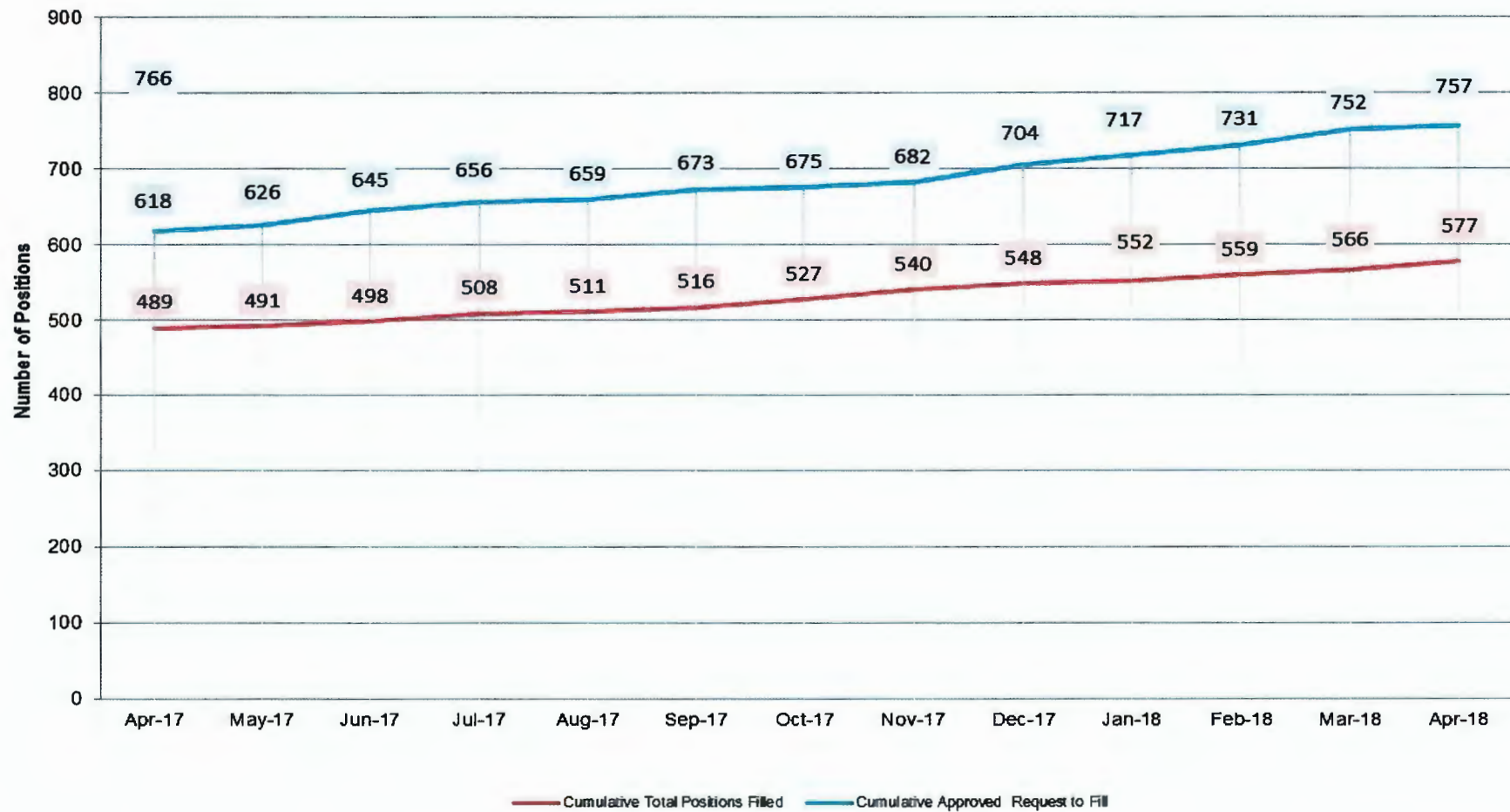
Job #	Project Title	Completion Date	Contract Amount
2001-054	Liliha Water System Improvements, Part I	1/9/2018	\$77,088.00
12-016	Hauula Wells Renovation	11/15/2017	1,210,690.92
3rd Quarter totals			\$1,287,778.92

DISCUSSION: Jason Takaki, Capital Projects Division Program Administrator, gave the report. There were no comments or discussion.

Positions Filled April 1, 2016 through April 30, 2017



Cumulative Totals April 1, 2017 through April 30, 2018



RECRUITMENT AND SEPARATION STATUS
For Period February 28, 2018 to April 30, 2018

Status of Positions Under Recruitment

	as of		
	2/28/2018	3/31/2018	4/30/2018
Pending DHR Classification Action	30	26	20
Pending DHR Open List	20	9	14
Pending IDCE	5	10	9
Pending Interview Questions	34	34	37
Pending Interviews	23	27	28
Anticipated Starts	11	14	8
Total Positions Under Recruitment	123	120	116

Filled Positions

Month	Feb-18	Mar-18	Apr-18
Open list	4	5	8
IDCE list	3	2	3

Separations

Month	Feb-18	Mar-18	Apr-18
Retire	0	0	0
Resign	2	1	0

Legend:

DHR = Department of Human Resources City and County of Honolulu

IDCE = Intra-Departmental Competitive Examination

PD = Position Description

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

ITEM FOR INFORMATION NO. 4

"May 29, 2018

GROUNDWATER
LEVELS

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

Chairman and Members:

Subject: Status Update of Groundwater Levels at All Index Stations

There was one aquifer index well (Waialua) within low groundwater status for the production month of April 2018. The monthly production average for April 2018 was 126.93 million gallons per day (mgd).

The Board of Water Supply rainfall index for the month of April 2018 was 168 percent of normal; with a 5-month moving average of 124 percent. As of May 8, 2018, the Hawaii Drought Monitor shows no dry conditions for Oahu.

The National Weather Service forecasting favors above normal rainfall for May 2018.

Most monitoring wells are continuing to exhibit static head level trends due to the decreased pumpage in the spring months. Punaluu and Kaluanui wells continued to exhibit larger increases in head levels for April 2018.

Respectfully submitted,

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

Attachment"

The foregoing was for information only.

DISCUSSION

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

**PRODUCTION, HEAD AND RAINFALL REPORT
MONTH OF APRIL 2018**

POTABLE

STATION	MGD
HONOLULU (1)	
KULIQUOU	0.06
WAILUPE	0.11
AINA KOA	0.21
AINA KOA II	0.87
MANOA II	0.00
PALOLO	0.62
KAIMUKI HIGH	2.48
KAIMUKI LOW	1.41
WILDER	6.95
BERETANIA HIGH	5.09
BERETANIA LOW	1.39
KALIHI HIGH	0.00
KALIHI LOW	1.56
KAPALAMA	1.28
KALIHI SHAFT	8.66
MOANALUA	1.14
HALAWA SHAFT	6.43
KAAMILO	0.87
KALAUAO	6.36
PUNANANI	11.48
KAAHUMANU	0.25
HECO WAIU	2.74
MANANA	0.39
WELLS SUBTOTAL:	60.33
MANOA TUNNEL	0.17
PALOLO TUNNEL	0.23
GRAVITY SUBTOTAL:	0.40
HONO. SUBTOTAL:	60.73

STATION	MGD
WINDWARD (2)	
WAIMANALO II	0.25
WAIMANALO III	0.03
KUOU I	0.68
KUOU II	0.04
KUOU III	0.18
LULUKU	1.18
HAIKU	0.00
IOLEKAA	0.00
KAHALUU	0.82
KAHANA	0.80
PUNALUU I	0.00
PUNALUU II	1.56
PUNALUU III	1.14
KALUANUI	0.00
MAAKUA	0.18
HAUULA	0.24
WELLS SUBTOTAL:	7.09
WAIM. TUNNELS I & II	0.00
WAIM. TUNNELS III&IV	0.19
WAIHEE INCL. WELLS	1.07
WAIHEE TUNNEL	4.35
LULUKU TUNNEL	0.21
HAIKU TUNNEL	0.83
KAHALUU TUNNEL	1.78
GRAVITY SUBTOTAL:	8.43
WIND. SUBTOTAL:	15.52

STATION	MGD
NORTH SHORE (3)	
KAHUKU	0.35
OPANA	0.17
WAIALEE I	0.45
WAIALEE II	0.35
HALEIWA	0.00
WAIALUA	1.30
N.SHORE SUBTOTAL:	2.63

STATION	MGD
MILILANI (4)	
MILILANI I	1.77
MILILANI II	0.00
MILILANI III	0.64
MILILANI IV	1.47
MILILANI SUBTOTAL:	3.88

STATION	MGD
WAIHAWA (5)	
WAIHAWA	1.55
WAIHAWA II	1.48
WAIHAWA SUBTOTAL:	3.03

STATION	MGD
PEARL CITY-HALAWA (6)	
HALAWA 277	0.89
HALAWA 550	0.00
AIEA	0.98
AIEA GULCH 497	0.26
AIEA GULCH 550	0.20
KAONOHI I	0.84
WAIMALU I	0.00
NEWTOWN	0.72
WAIU	0.63
PEARL CITY I	0.51
PEARL CITY II	1.11
PEARL CITY III	0.26
PEARL CITY SHAFT	0.92
PEARL CITY-HALAWA SUBTOTAL:	7.32

STATION	MGD
WAIPAHU-EWA (7)	
WAIPIO HTS.	0.27
WAIPIO HTS. I	0.23
WAIPIO HTS. II	0.08
WAIPIO HTS. III	1.21
WAIPAHU	4.55
WAIPAHU II	1.78
WAIPAHU III	1.54
WAIPAHU IV	1.73
KUNIA I	2.98
KUNIA II	1.65
KUNIA III	1.42
HOAEAE	3.06
HONOULIULI I	1.30
HONOULIULI II	6.82
MAKAKILO	0.29
WAIPAHU-EWA SUBTOTAL:	28.91

STATION	MGD
WAIANAE (8)	
MAKAHA I	0.88
MAKAHA II	0.40
MAKAHA III	0.59
MAKAHA V	0.25
MAKAHA VI	0.00
MAKAHA SHAFT	0.00
KAMAILE	0.02
WAIANAE I	0.00
WAIANAE II	0.60
WAIANAE III	0.61
WELLS SUBTOTAL:	3.35
WAI. C&C TUNNEL	1.40
WAI. PLANT. TUNNELS	0.16
GRAVITY SUBTOTAL:	1.56
WAIANAE SUBTOTAL:	4.91

NONPOTABLE

NONPOTABLE	MGD
KALAUAO SPRINGS	0.61
BARBERS POINT WELL	0.88
GLOVER TUNNEL NP	0.41
NONPOTABLE TOTAL:	1.91

RECYCLED WATER MARCH 2018

RECYCLED WATER	MGD
HONOULIULI WRF R-1	5.28
HONOULIULI WRF RO	1.62
RECYCLED WATER TOTAL:	6.90

**PRODUCTION, HEAD AND RAINFALL REPORT
MONTH OF APRIL 2018**

PRODUCTION SUMMARIES

TOTAL WATER	MGD
PUMPAGE	116.54
GRAVITY	10.39
POTABLE TOTAL:	126.93
NONPOTABLE	1.91
RECYCLED WATER	6.90
TOTAL WATER:	135.73

CWRM PERMITTED USE AND BWS ASSESSED YIELDS FOR BWS POTABLE SOURCES				
WATER USE DISTRICTS		A PERMITTED USE/ BWS YLDS	B APR 2018	C DIFF. A-B
1	HONOLULU	82.93	60.33	22.60
2	WINDWARD	25.02	10.10	14.92
3	NORTH SHORE	4.74	2.63	2.11
4	MILILANI	7.53	3.88	3.65
5	WAHIAWA	4.27	3.03	1.24
6	PEARL CITY-HALAWA	12.25	7.32	4.93
7	WAIPAHU-EWA	50.63	28.91	21.72
8	WAIANAE	4.34	3.35	0.99
TOTAL:		191.71	119.55	72.16

CWRM PERMITTED USE FOR BWS NONPOTABLE SOURCES				
WATER USE DISTRICTS		A PERMITTED USE	B APR 2018	C DIFF. A-B
7	WAIPAHU-EWA (BARBERS POINT WELL)	1.00	0.88	0.12
TOTAL:		1.00	0.88	0.12

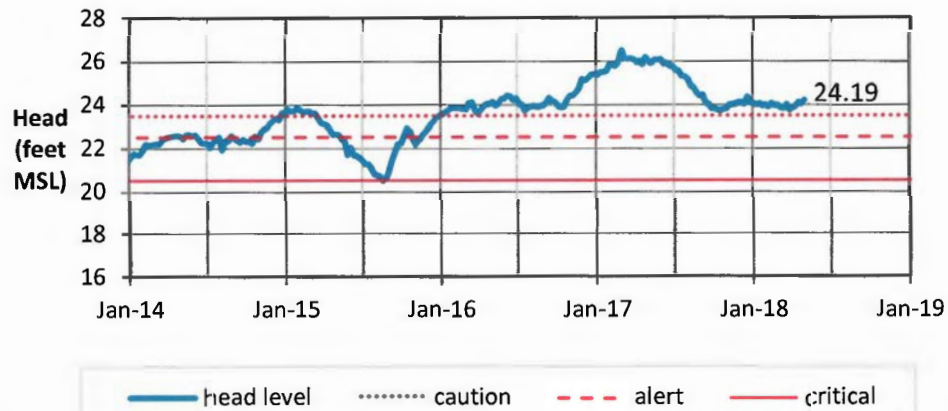
EFFECTIVE WATER DEMAND PER DISTRICT

IMPORT/EXPORT BETWEEN WATER USE DISTRICTS			
FROM	TO		MGD
2	1	WINDWARD EXPORT	1.15
7	8	BARBERS PT LB	3.31

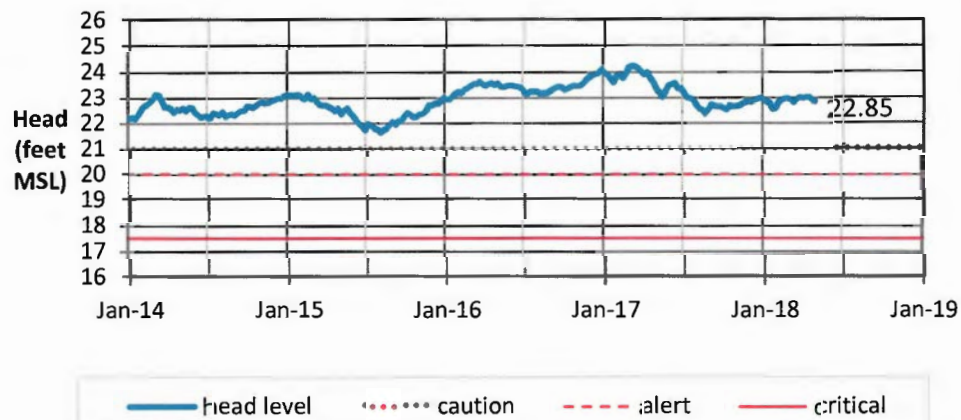
WATER USE DISTRICTS		SUBTOTAL	IMPORT	EXPORT	EFFECTIVE WATER DEMAND
1	HONOLULU	60.33	1.15	-	61.48
2	WINDWARD	10.10	-	1.15	8.95
3	NORTH SHORE	2.63	-	-	2.63
4	MILILANI	3.88	-	-	3.88
5	WAHIAWA	3.03	-	-	3.03
6	PEARL CITY-HALAWA	7.32	-	-	7.32
7	WAIPAHU-EWA	28.91	-	3.31	25.60
8	WAIANAE	3.35	3.31	-	6.65
TOTAL:		119.55	4.46	4.46	119.55

Weekly Head Report

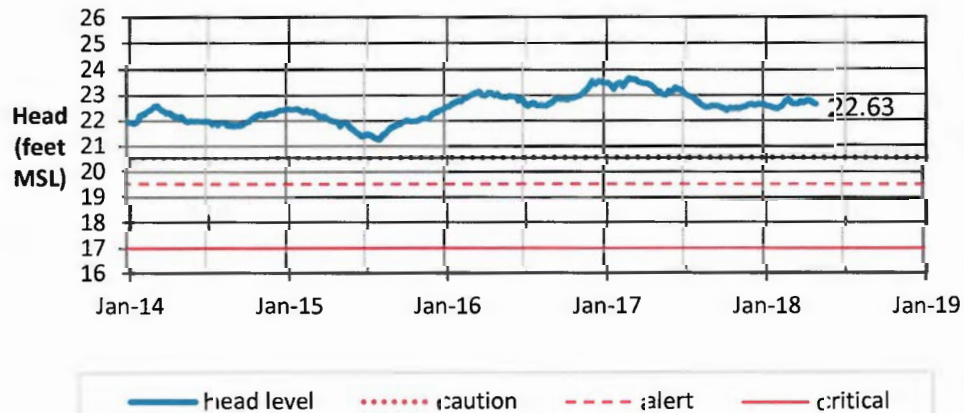
Kaimuki 05/08/18



Beretania 05/08/18

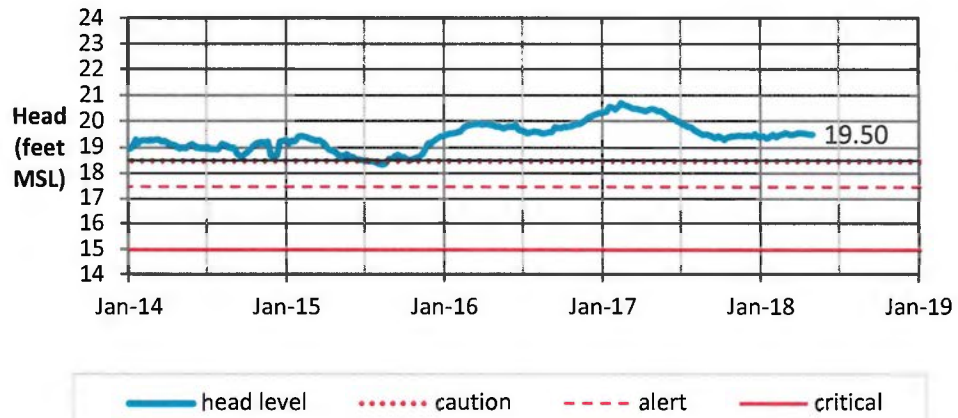


Kalihi 05/09/18

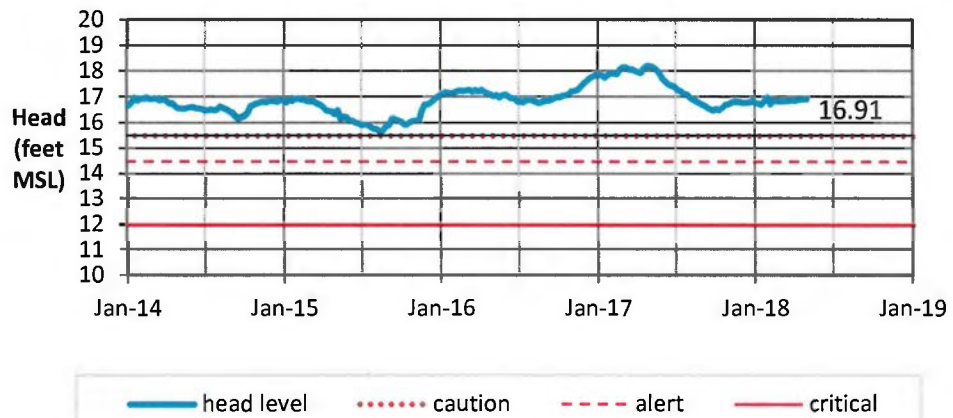


Weekly Head Report

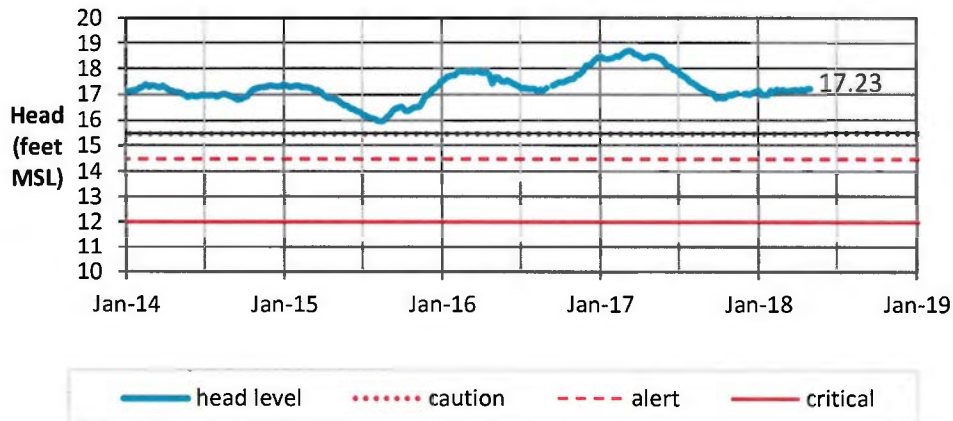
Moanalua 05/08/18



Halawa 05/08/18

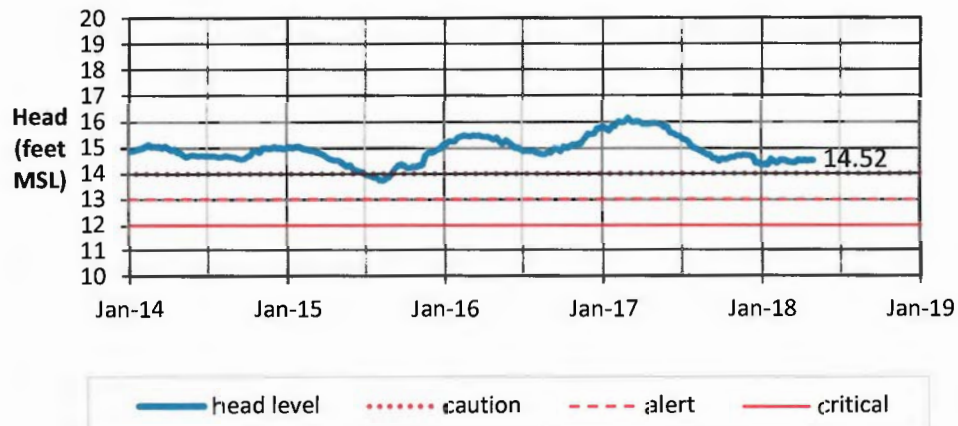


Kalauao 05/09/18

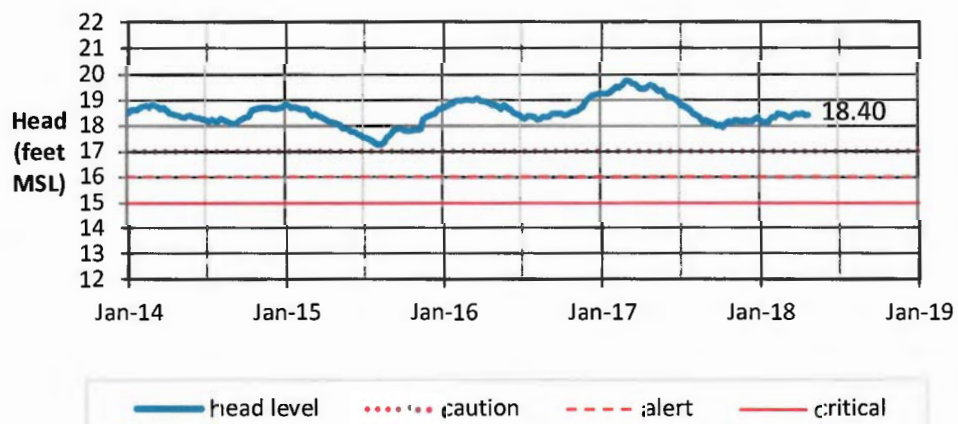


Weekly Head Report

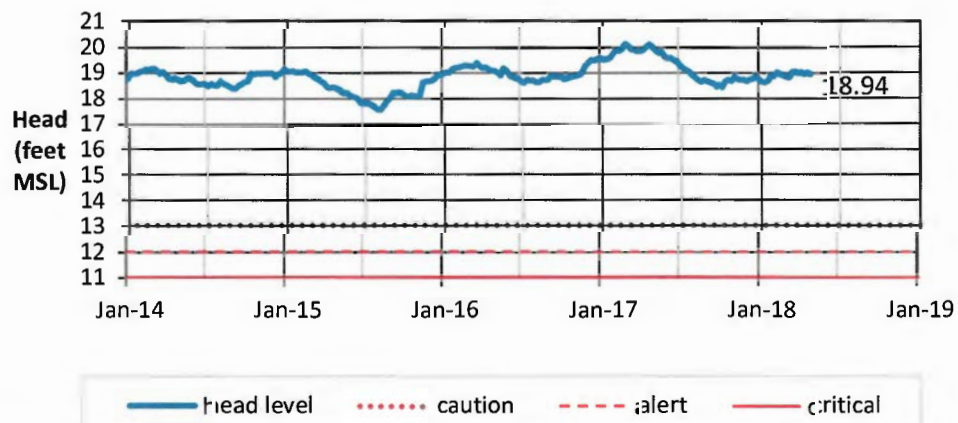
Pearl City 05/09/18



Waipahu 05/02/18

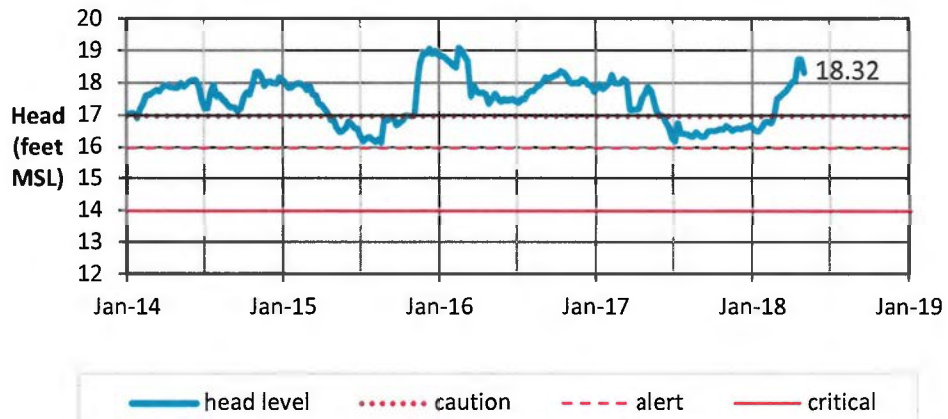


Hoeaee-Kunia 05/08/18

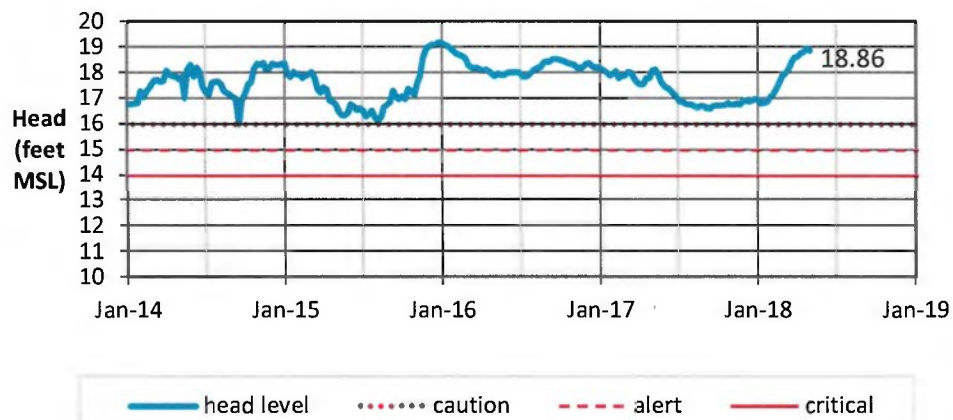


Weekly Head Report

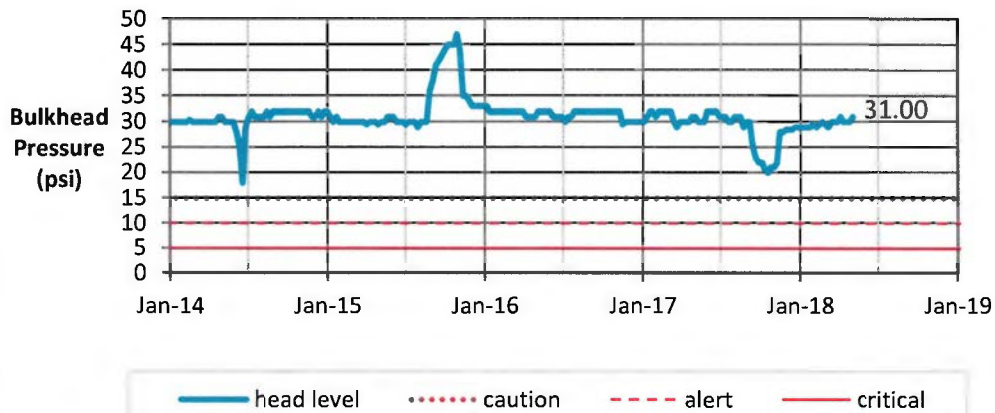
Punaluu 05/09/18



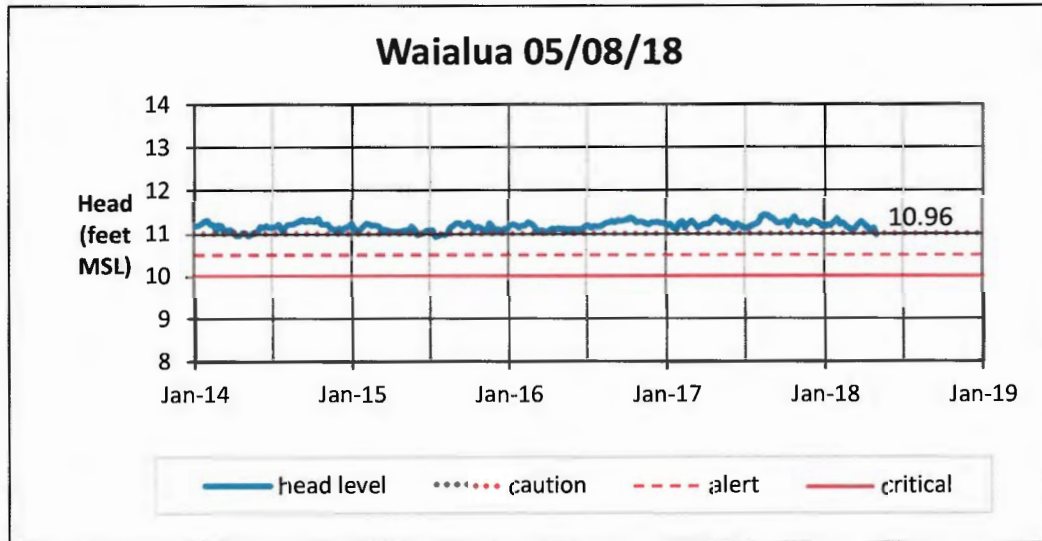
Kaluauui 05/08/18

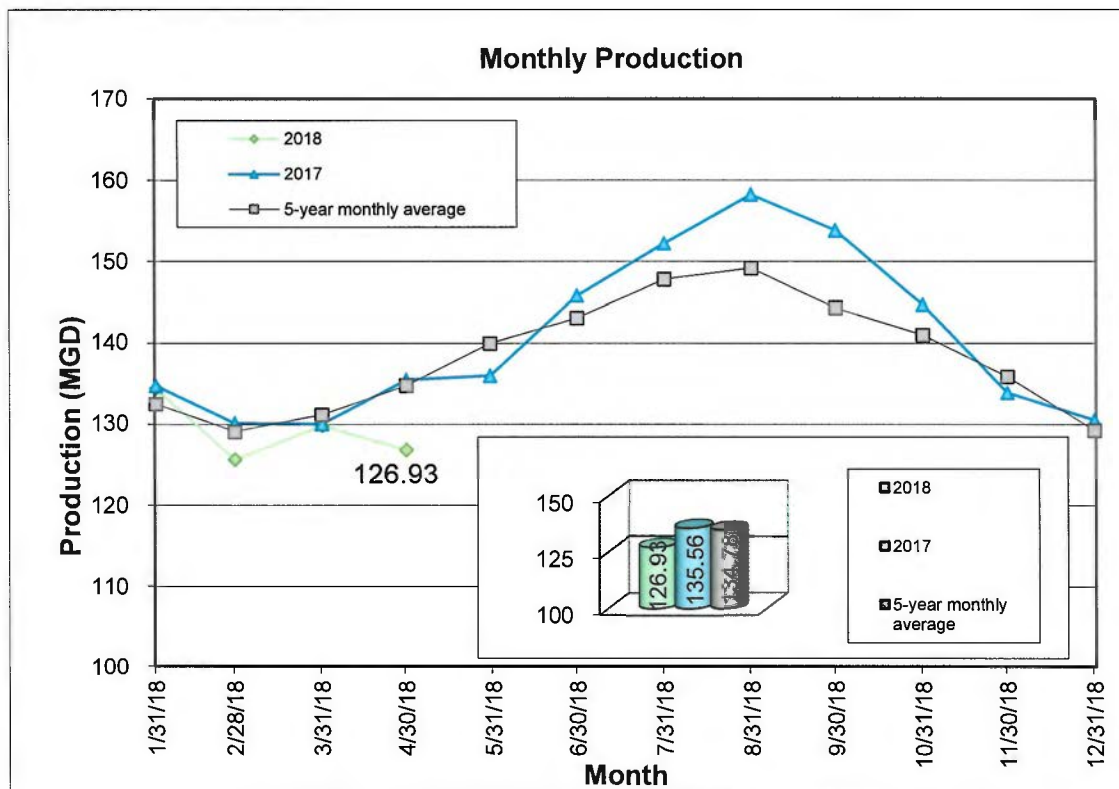
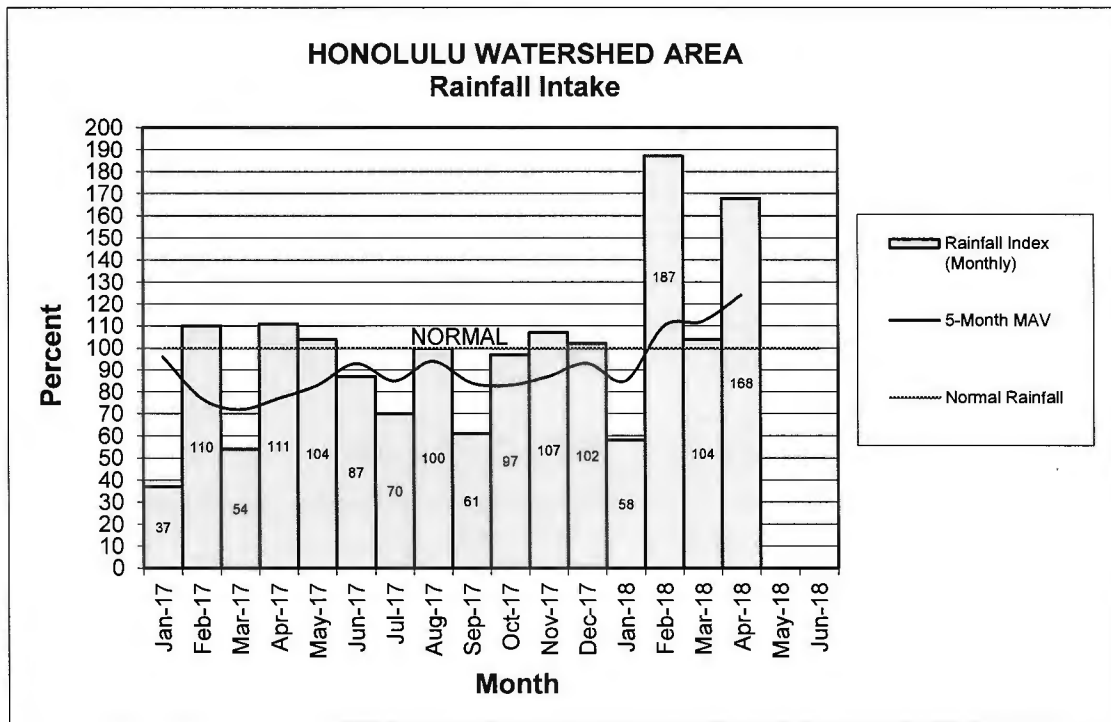


Waihee Tunnel 05/08/18



Weekly Head Report





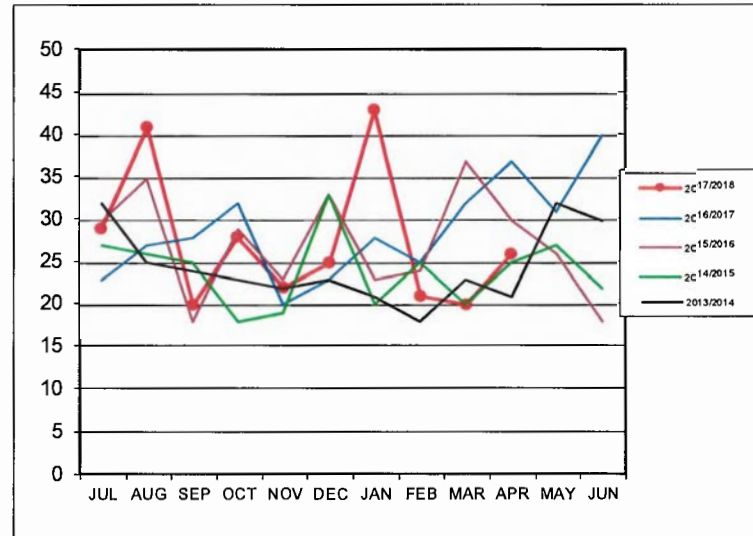
ITEM FOR INFORMATION NO. 5

WATER MAIN REPAIR REPORT

for April 2018

	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	Total
2017/2018	29	41	20	28	22	25	43	21	20	26			275
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
2014/2015	27	26	25	18	19	33	20	25	20	25	27	22	287
2013/2014	32	25	24	23	22	23	21	18	23	21	32	30	294

Date	Address	Size (in)	Pipe Type
4/2/2018	1772 KUAHAKA ST, HONOLULU	8	CI
4/2/2018	2296 WAIOMAO RD, HONOLULU	8	CI
4/3/2018	1504 ST LOUIS DR, HONOLULU	12	DI
4/3/2018	46-311 AHUI NANI PL, KANEOHE	4	CI
4/5/2018	2820 DOLE ST, HONOLULU	20	CI
4/6/2018	1245 PUU KIPA ST, HONOLULU	8	PVC
4/10/2018	1895 KOMO MAI DR, PEARL CITY	16	CI
4/11/2018	99-1337 HALAWA VALLEY ST, AIEA	16	DI
4/11/2018	91-585 AKUA ST, EWA BEACH	6	CI
4/15/2018	2331 KUAHEA ST, HONOLULU	6	DI
4/16/2018	5913 HALEOLA ST, HONOLULU	12	DI
4/16/2018	5895 HALEOLA ST, HONOLULU	12	DI
4/17/2018	53-004 POKIWAI PL, HAUULA	6	CI
4/17/2018	92-438 FARRINGTON HWY, KO OLINA	24	PVC
4/18/2018	212 CALIFORNIA AVE, WAHIAWA	6	CI
4/18/2018	1582 LAULANI ST, HONOLULU	8	PVC
4/19/2018	1356 MALEKO ST, KAILUA	8	CI
4/20/2018	99-931 HULUMANU ST, AIEA	8	CI
4/23/2018	46-291 AHUI NANI PL, KANEOHE	8	CI
4/24/2018	94-1002 OLI LP, WAIPAHU	8	AC
4/25/2018	1288 ALOHA OE DR, HONOLULU	8	CI
4/26/2018	836 11TH AVE, HONOLULU	6	CI
4/27/2018	45-359 AKIMALA ST, HONOLULU	8	CI
4/27/2018	85-1671 HALEAHI RD, WAIANAE	12	CI
4/30/2018	376 N CIRCLE MAUKA PL, WAHIAWA	4	CI
4/30/2018	1222 LOKO DR, WAHIAWA	6	CI



30 miles of pipelines were surveyed by the Leak Detection Team in the month of April.

DISCUSSION:

Mike Fuke, Acting Field Operations Division Program Administrator, gave the report. Mr. Fuke stated that there were two significant breaks in the month of April. On April 5, 2018, a 20-inch main break occurred on Dole Street. Mr. Fuke stated that according to BWS records, this main is approximately 90 years old.

The second main break, which occurred on April 17, 2018 on Farrington Highway, was a 24-inch main that serves approximately 60 percent of the Leeward Coast's water supply. Mr. Fuke stated that, fortunately, the break occurred in a shoulder area, so traffic impact was minimal.

MOTION TO
RECESS INTO
EXECUTIVE
SESSION

Upon unanimously approved motion, the Board recessed into Executive Session Pursuant to [HRS §92-5] at 3:15 PM to Consult with the Board's Attorney and to Consider Issues Pertaining to Matters Posted for Discussion at an Executive Session

OPEN
SESSION

The Board reconvened in Open Session at 4:00 PM

MOTION TO
ADJOURN

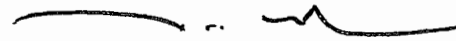
There being no further business Chair Andaya at 4:00 PM called for a motion to adjourn the Open Session. Ray Soon so moved; seconded by Jade Butay and unanimously carried.

THE MINUTES OF THE PUBLIC HEARING AND REGULAR SESSION BOARD MEETING ON MAY 29, 2018 WERE APPROVED AT THE JUNE 29, 2018 BOARD MEETING			
	AYE	NO	COMMENT
BRYAN P. ANDAYA	X		
KAPUA SPROAT	X		
DAVID C. HULIHEE			ABSENT
KAY C. MATSUI	X		
RAY C. SOON	X		
ROSS S. SASAMURA	X		
JADE T. BUTAY			ABSENT

Respectfully submitted,


LESLEY C. COON

APPROVED:


BRYAN P. ANDAYA
Chair of the Board

JUN 29 2018
Date