

# MINUTES

## WORKSHOP MEETING OF THE BOARD OF WATER SUPPLY

May 18, 2015

At 2:01 PM on May 18, 2015 in the Board Room of the Public Service Building at 630 South Beretania Street, Honolulu, Hawaii, Board Chair Miyashiro called to order the Workshop Meeting to Discuss the Proposed FY 2015 - 2016 Operating and Capital Improvement Program Budget.

Present: Duane R. Miyashiro, Board Chair  
Adam C. Wong, Vice Chair  
David C. Hulihee  
Ford N. Fuchigami  
Kapua Sproat

Also Present: Ernest Lau, Manager and Chief Engineer  
Daryl Hiromoto  
Erwin Kawata  
Paul Kikuchi  
Jason Takaki  
Shawn Nakamoto  
Jennifer Elflein  
Henderson Nuuhiwa  
Kevin Ihu  
Barry Usagawa  
Alex Ubiadas  
Teri Akana  
Stuart Wong  
Marc Chun  
Scot Muraoka  
Joe Cooper  
Robert Morita  
Jonathan Suzuki

Others Present: Richard Lewallen, Deputy Corporation Counsel  
Dan Lawrence, Deputy Corporation Counsel  
Cliff Lum, SSFM International  
Juliann Chen, University of Hawaii at Manoa, SOA

Absent: Ross S. Sasamura  
Theresia C. McMurdo

Manager Lau opened the workshop by thanking the Board Members for the opportunity to brief them on the Proposed Fiscal Year (FY) 2016 Budget for the BWS. He stated that BWS's mission is to provide safe, dependable, and affordable water now and into the future. Mr. Lau informed the Board that Robert Morita the head of the Executive Support Office will present an overview of the Operating Budget (OB) and Jason Takaki the head of the Capital Projects Division will provide an overview of the Capital Improvement Program (CIP) budget.

Mr. Morita acknowledged Mr. Stuart Wong head of the Management and Budget Office (MBO), who was the key to the whole budget process. Mr. Morita thanked Mr. Wong and recognized him for his hard work.

Mr. Morita gave a brief overview of the BWS's budgeting process. He explained that the budget is for an annual period that runs from July 1 through June 30. The process begins a little before December when Mr. Wong begins inputting information into worksheets. The worksheets are then distributed to each division with instructions on how to prepare the budget. Separate instructions are distributed from the Automotive Section and the Information Technology Division. The divisions have about a month to complete their proposed budget for their division. MBO works with the Finance Division at a high level to look at revenues vs. expenses to see whether or not changes need to be made in the budgets. MBO reviews the budget requests and looks for reasonableness; how this year's proposed budget compares to last year's budget and asks questions if there are big variances. After that process is completed, MBO will meet with each division separately with the Manager and Deputy Manager present at all meetings. Mr. Lau added that each year a Board workshop is held and following the workshop, a public hearing on the budget is held on the same day of the regular Board meeting, where the Department requests adoption of the budget by the Board.

Mr. Morita began his presentation by showing comparisons between the FY 2016 proposed budget and the FY 2015 budget. He explained that the proposed OB is based upon total operating fund resources of about \$276.2 million, derived from operating revenues of approximately \$219.2 million and an estimated carryover balance from FY 2015 of \$57 million. The proposed operating fund expenditure allocations are \$187 million for operating expenses and \$61.5 million for the CIP for a total of \$248.5 million.

Mr. Morita showed a chart that listed the cost categories that make up the total proposed operating fund budget of \$248.5 million. Mr. Morita stated that in comparing the FY 2016 budget with the FY 2015 budget, there is approximately \$8 million more budgeted, and showed a chart that indicated how the operating fund monies would be expended.

The next three charts illustrated data for fiscal years 2012-2016 with the following information: 1) trending of actual and projected operating fund revenues, 2) trending of billed potable water sales, and 3) trending of BWS's expenditure plans. The last chart showed the gradual growth of actual and projected BWS water service customers for fiscal years 2013-2016.

Board Member Fuchigami inquired about personnel expenses and asked if all vacant positions are funded in the budget. Mr. Morita responded that they do not fund all vacant positions in the budget. He explained that salaries are not budgeted for positions that are not anticipated to be filled. Vice Chair Wong inquired if this is a new policy or if it was always done this way. Stuart Wong replied that this is the way it has always been done. Mr. Fuchigami referred to the amount of vacancies reported at each Board meeting and asked for confirmation that there is a ceiling on the total number of vacancies that can be filled based on the budget. Mr. Lau confirmed that this is correct.

Mr. Fuchigami referred to the CIP and asked if a \$1 million project is slated over a three-year period, would the money be spread out over a three-year period based on 33 percent, or would the \$1 million be carried over every single year. Mr. Lau replied that it would depend on how the contract is structured. The contract could encumber the full amount for multiple years or it could be a phased contract, subject to availability of funds. Mr. Lau added that the contract requires the total cost to be covered. Mr. Fuchigami asked if BWS could actually budget the amount expended from the first year, second year, and the third year. Mr. Lau responded that BWS could do that if it was a phased contract, subject to annual appropriation of funds. Stuart Wong stated that service type contracts could be spread out over three years, but construction projects are normally awarded for the full amount. The contract itself may run three to four years, but the full amount of the contract is awarded.

Mr. Fuchigami asked where the special maintenance projects (SMP) come under. Mr. Lau explained that for BWS it is called renewal and replacement projects, which is predominately funded by operating revenue.

Mr. Morita continued by highlighting initiatives planned for FY 2016 that demonstrate BWS's commitment to providing safe, dependable, and affordable water now and into the future. "Safe" is demonstrated through resource sustainability. Included in the budget under this category are the Primary Urban Center Watershed Management Plan, Water Resources Studies, and the Monitoring of the Red Hill Fuel Tank. Board Member Sproat inquired how much money is budgeted for the monitoring of Red Hill. Mr. Morita replied that \$200,000 is budgeted in the operating budget, but more money is budgeted in the CIP budget as well. Ms. Sproat asked if the \$200,000 is for monitoring of the Red Hill Fuel Tank only. Water Quality Program Administrator Erwin Kawata responded that the \$200,000 is for conducting studies and for testing.

Mr. Morita continued the presentation and explained how "Dependable" is demonstrated through operational sustainability. Included in the budget under this category are the Meter Replacement Program, the Customer Care Quality Assurance Program, and the Program Management Study. Lastly, "Affordable" is demonstrated through financial sustainability. Included in the budget under this category is the Budget Module that will work with the BWS financial system, NALU.

Capital Projects Program Administrator Jason Takaki continued with the presentation on the CIP Budget. He stated that the CIP is one of the Department's most significant program and represents the immediate needs necessary for delivery of water and the operation and maintenance of facilities. This year's program is crafted around the BWS mission of Water for Life: Safe, dependable, and affordable water now and into the future and is closely aligned with the Department's Strategic Plan, the goals and objectives of the divisions, and the previously approved Long Range Capital Improvement Program.

Mr. Takaki explained the program categories, showed a table that provided a matrix of the funding sources and project categories, and showed a slide that demonstrated the distribution of projects around the island of Oahu as island-wide water infrastructure is managed and maintained.

Project highlights in categories I, II, and III were discussed, as well as other projects included in the renewal and replacement program. Mr. Takaki concluded by stating that in total, an \$83.7 million CIP will carefully balance the requirements of ensuring safe and dependable water delivery, with cost-effective resource allocation.

Vice Chair Wong asked how the recently approved Hoopili project would impact the BWS system and budget. Water Resources Program Administrator Barry Usagawa replied that D.R. Horton

will be doing all of the improvements. They have submitted a water master plan, both for potable and recycled water. They plan to expand BWS's 440' reservoir system above Honouliuli Wells. They are also proposing a recycled water reservoir and a connection to BWS's Honouliuli recycled water system. It would irrigate about 2 million gallons per day on large landscaped areas. Mr. Wong asked what source Hoopili will use and how much. Mr. Usagawa replied that three to four million gallons of water per day will be used from the Ewa Shaft and the development will extend over the next 15-20 years.

Ms. Sproat asked how many wells BWS will install for the \$400,000 amount budgeted in the CIP for Red Hill monitor wells. She asked if it was two wells. Mr. Kawata replied that the plan is to install three wells, and Mr. Lau stated that the sites of the monitoring wells have yet to be determined.

Mr. Morita summarized the presentation by stating that the operating fund budget of \$248.5 million is comprised of \$187 million for operating expenditures and \$61.5 million for the CIP. Additional funding of \$3.7 million from the Special Expendable Fund, \$15.5 million from the State Revolving Fund, and \$3 million from the Reserve Release Fund brings the total CIP budget to \$83.7 million, for a combined total of \$270.6 million.

There were no other questions by the Board. Chair Miyashiro asked if there was any member of the public that wanted to testify on the budget. There was no testimony from the public.

Mr. Lau reminded the Board that a public hearing on the budget would precede the next Board meeting. Mr. Miyashiro asked Mr. Lau if his staff would be available, in the interim, should the Board have any questions. Mr. Lau replied that the Board could direct questions to him and he would have his appropriate staff person provide a response.

MOTION TO  
ADJOURN

There being no further business, Chair Miyashiro at 2:37 PM called for a motion to adjourn the Budget Workshop. Adam Wong so moved; seconded by Ford Fuchigami and unanimously carried.

THE MINUTES OF THE BUDGET WORKSHOP ON MAY 18, 2015 WERE APPROVED, AS AMENDED, AT THE MAY 26, 2015 BOARD MEETING

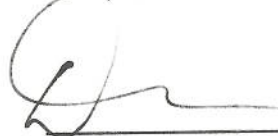
	AYE	NO	COMMENT
DUANE R. MIYASHIRO	X		
ADAM C. WONG	X		
THERESIA C. MCMURDO			ABSENT
DAVID C. HULIHEE	X		
KAPUA SPROAT			ABSENT
ROSS S. SASAMURA	X		
FORD N. FUCHIGAMI	X		

Respectfully submitted,



LISA K. KIM

APPROVED:



DUANE R. MIYASHIRO  
Chair of the Board

MAY 26 2015

Date



# Board of Water Supply

## Fiscal Year 2016 Budget Workshop

May 18, 2015



# WATER FOR LIFE

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



Board of Water Supply  
City and County of Honolulu

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## Agenda

- Opening Remarks
- Operating Budget
- Capital Improvement Program Budget
- Summary



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# **FY 2016 Operating Budget**





## Operating Fund Revenue Expenditure Summary (millions of dollars)

	FY 2015	FY 2016	Change	
	<u>Budget</u>	<u>Proposed</u>	<u>Dollars</u>	<u>Percentage</u>
Revenues	\$217.6	\$219.2	\$1.6	0.7%
Total Operating Expenditures	\$179.3	\$186.9	\$7.6	4.3%





## Operating Fund Resources and Expenditures (millions of dollars)

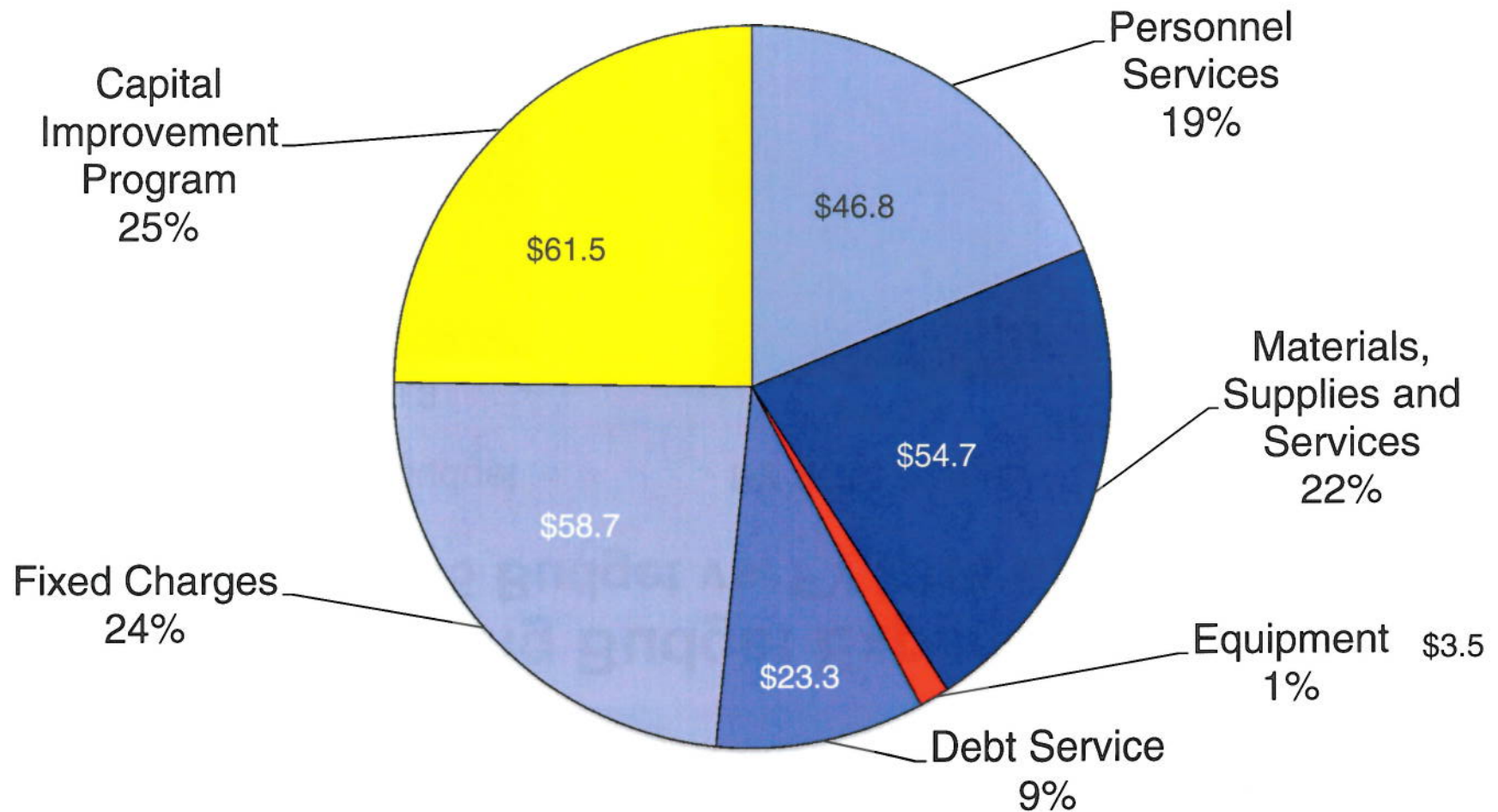
	FY 2014	FY 2015	FY 2015	FY 2016
	Actual	Budget	Estimated	Budget
Beginning Balance	\$ 67.5	\$ 46.3	\$ 61.2	\$ 57.0
Revenues	196.9	217.6	208.2	219.2
Lapses/ Adjustments	2.1	---	1.7	---
<b>Total Resources</b>	<b>266.5</b>	<b>263.9</b>	<b>271.1</b>	<b>276.2</b>
Operating Expenditures	142.3	179.3	153.6	187.0
Capital Improvement Program	63.0	60.5	60.5	61.5
<b>Total Expenditures</b>	<b>205.3</b>	<b>239.8</b>	<b>214.1</b>	<b>248.5</b>
<b>Ending Balance</b>	<b>\$ 61.2</b>	<b>\$ 24.1</b>	<b>\$ 57.0</b>	<b>\$ 27.7</b>





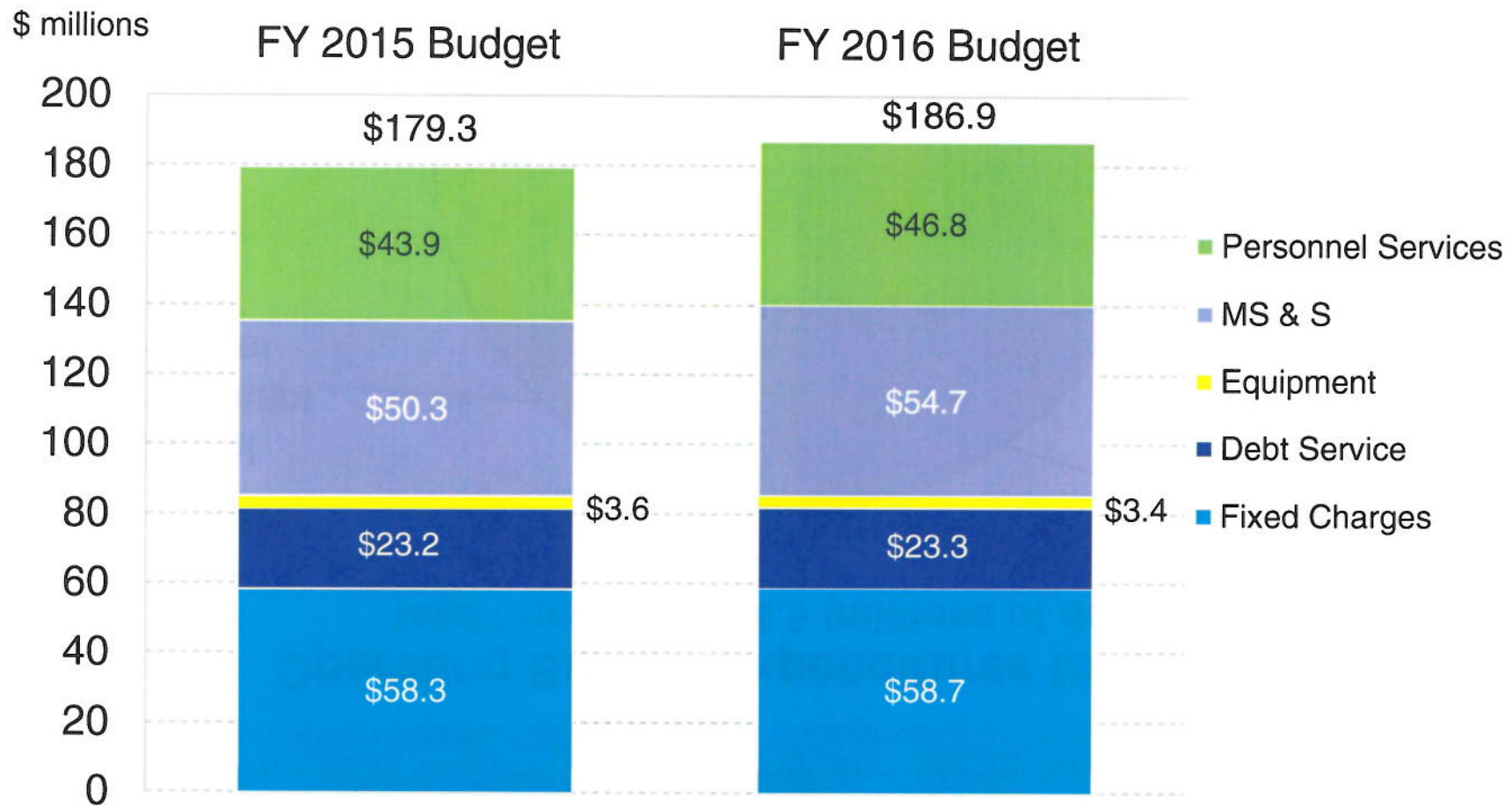
## Operating Budget Expenditures for FY 2016

Total budget = \$248.5 (millions of dollars)





## Operating Budget Expenditures FY 2015 Budget vs. FY 2016 Budget



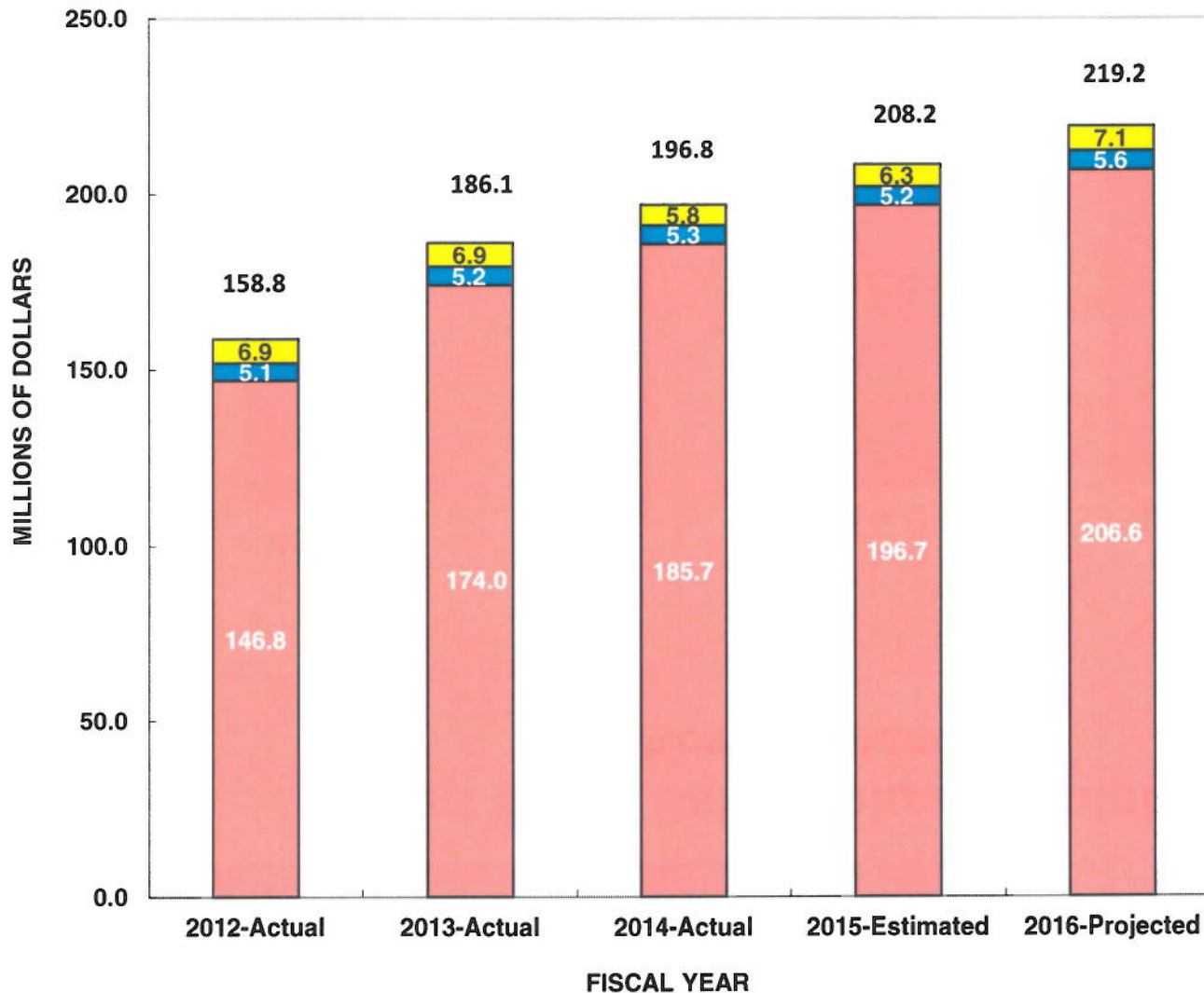
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## OPERATING FUND REVENUE



Fiscal Year 2016

Metered Sales - Potable & Non-Potable	\$206,577,000
Metered Sales - Recycled	5,568,360
Other Revenues	<u>7,056,359</u>
Total Revenues	\$ 219,201,719

# WATER FOR LIFE

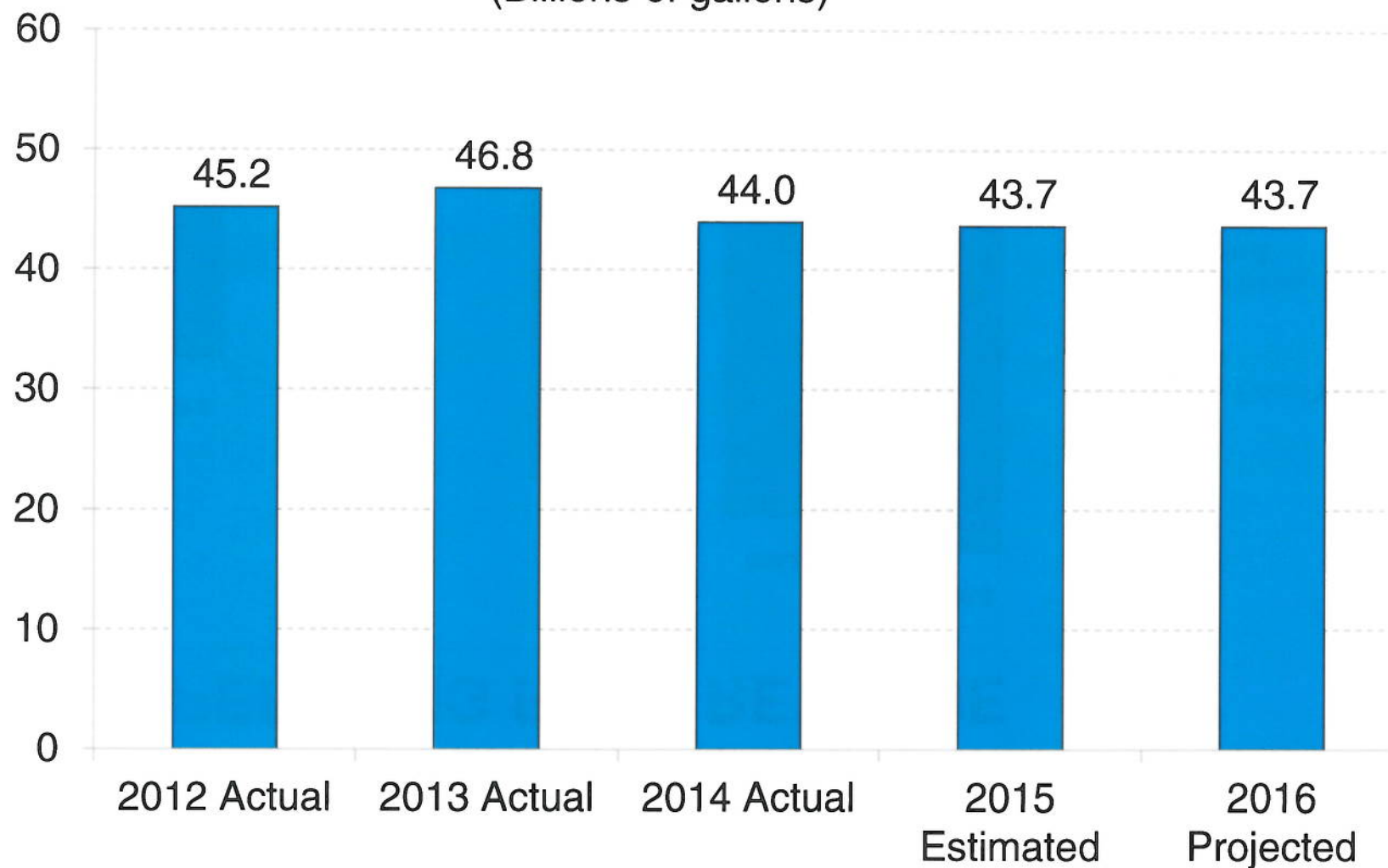
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## Billed Water Sales Volume (potable)

(Billions of gallons)



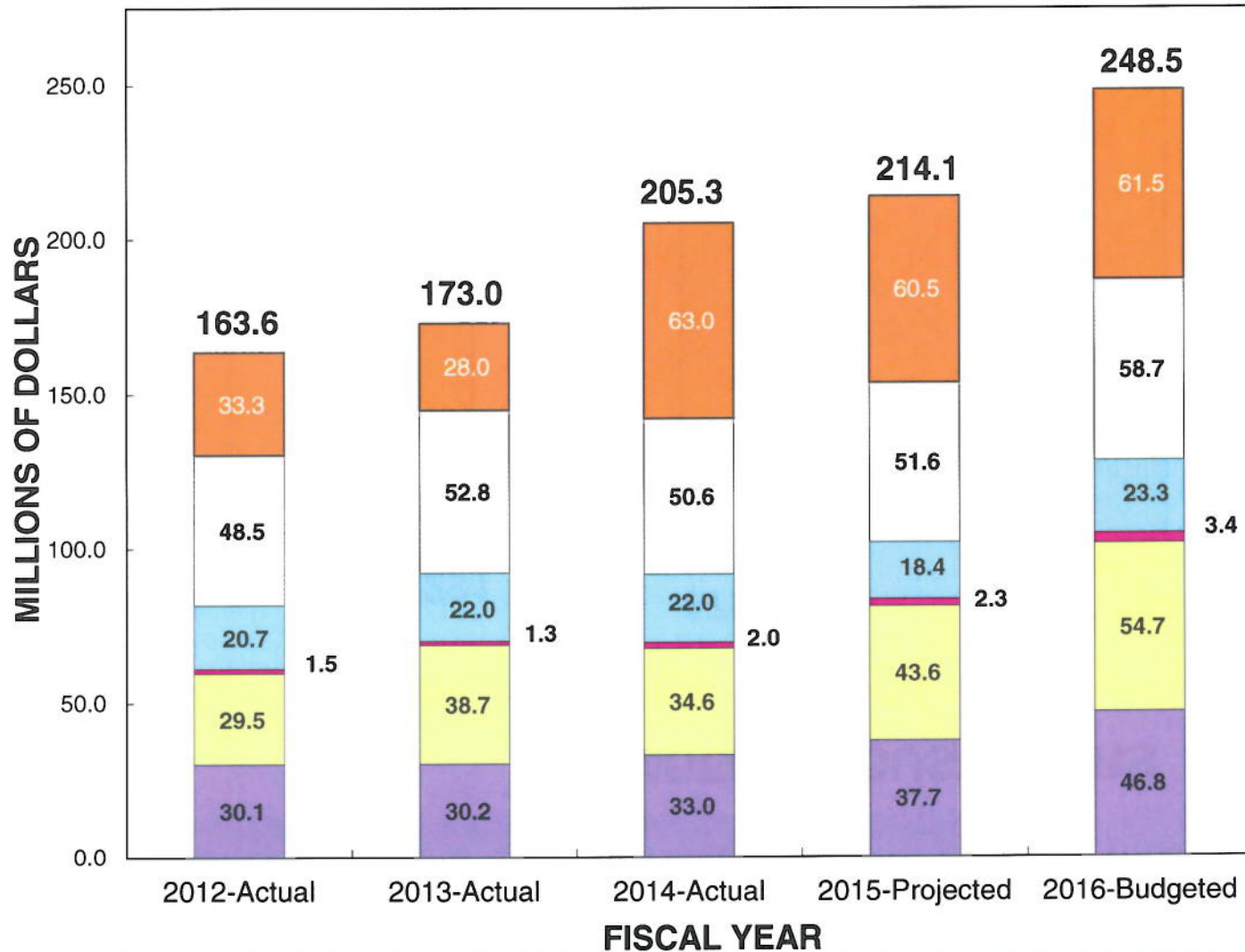
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## OPERATING FUND EXPENDITURES Fiscal Years 2012 - 2016



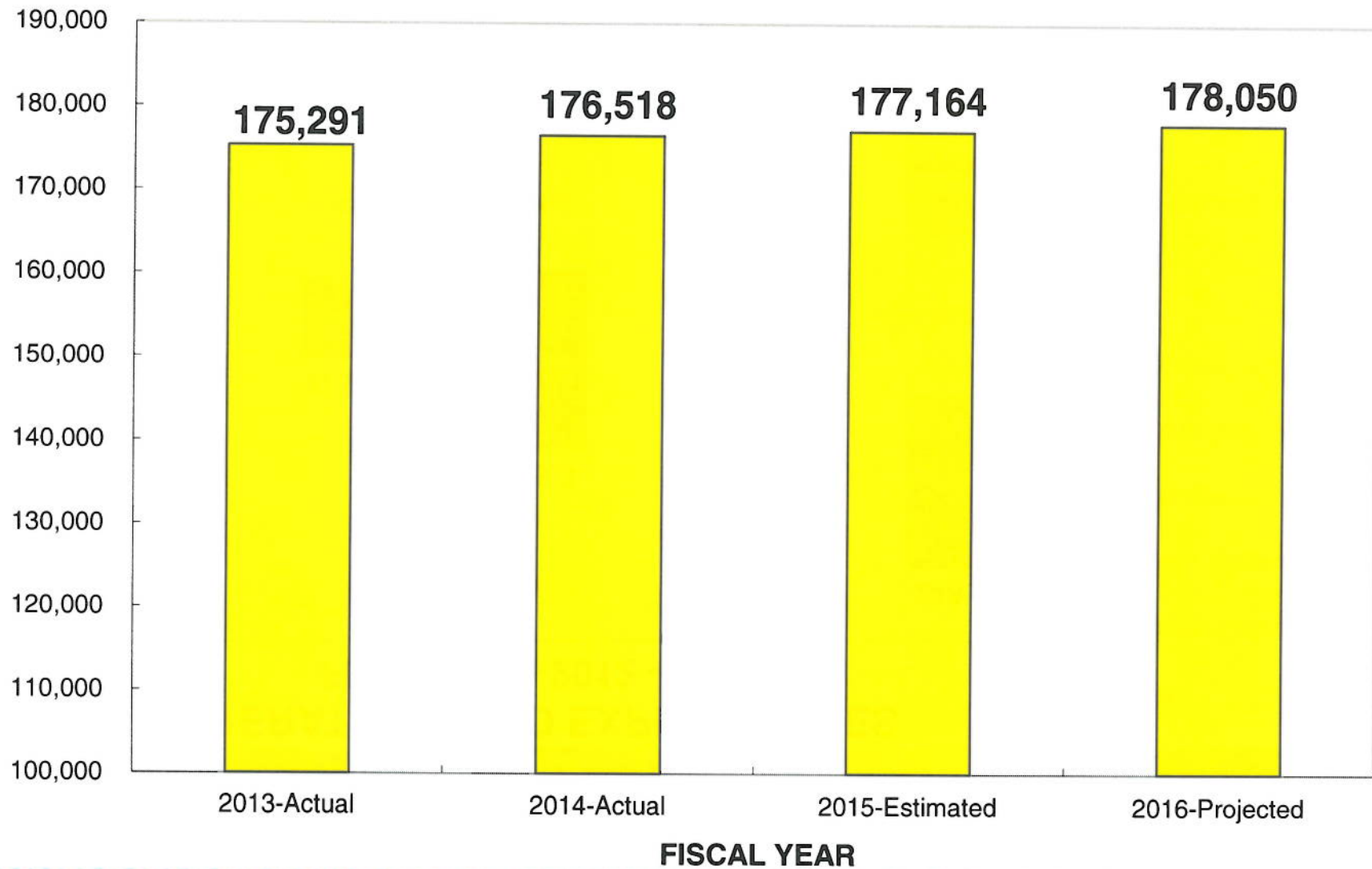
- CIP
- Fixed Charges
- Debt Service
- Equipment
- Materials, Svcs & Supp.
- Personnel Services

### Fiscal Year 2016

CIP	\$ 61,529,290
Fixed Charges	58,739,800
Debt Service	23,311,000
Equipment	3,446,500
MS&S	54,691,932
Personnel Svc.	<u>46,790,064</u>
<b>Total</b>	<b>\$248,508,586</b>



## NUMBER OF CUSTOMERS



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# Questions



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# Support of the Strategic Plan

- *Resource Sustainability*
- *Operational Sustainability*
- *Financial Sustainability*



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# Resource Sustainability

*Safe*



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# **Resource Sustainability**

## **Primary Urban Center Watershed**

### **Management Plan**





# Resource Sustainability

## Water Resource Studies

- Variations in cold front passages and frontal rainfall
- Transpiration study
- Climate change vulnerability analysis



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# Resource Sustainability

## Red Hill Fuel Tank Monitoring



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# Operational Sustainability

*Dependable*



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# Operational Sustainability

## Meter Replacement Program



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# Operational Sustainability

## Customer Care Quality Assurance Program



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# Operational Sustainability Program Management Study



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# Financial Sustainability

## *Affordable*



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# Financial Sustainability Budget Module

2		
3	Data3	list3
4	Data1-1	list1x1
5	Data1-2	list1x2
6	Data1-1-1	list1x1x1
		list2x1



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# **FY 2016 Capital Improvement Program Budget**



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## **FY16 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 2014-2017, Divisions' Goals & Objectives and the Six-Year Capital Improvement Program





# Program Categories

Research and Development

Renewal and Replacement

Capacity Expansion



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## Capital Improvement Program Budget FY 2016

	Categories	Operating Fund	Special Expendable Fund	State Revolving Fund	Reserve Release Fund	Total
I.	Research & Development	\$ 2,400,000		\$ 500,000		\$ 2,900,000
II.	Renewal & Replacement	41,776,790		6,600,000	\$ 2,978,210	51,355,000
III.	Capacity Expansion	5,075,000	\$ 3,350,000	7,000,000		15,425,000
	Sub-Total	\$ 49,251,790	\$ 3,350,000	\$ 14,100,000	\$ 2,978,210	\$ 69,680,000
	Adjustment	12,277,500	300,000	1,410,000		13,987,500
	Total	\$ 61,529,290	\$ 3,650,000	\$ 15,510,000	\$ 2,978,210	\$ 83,667,500

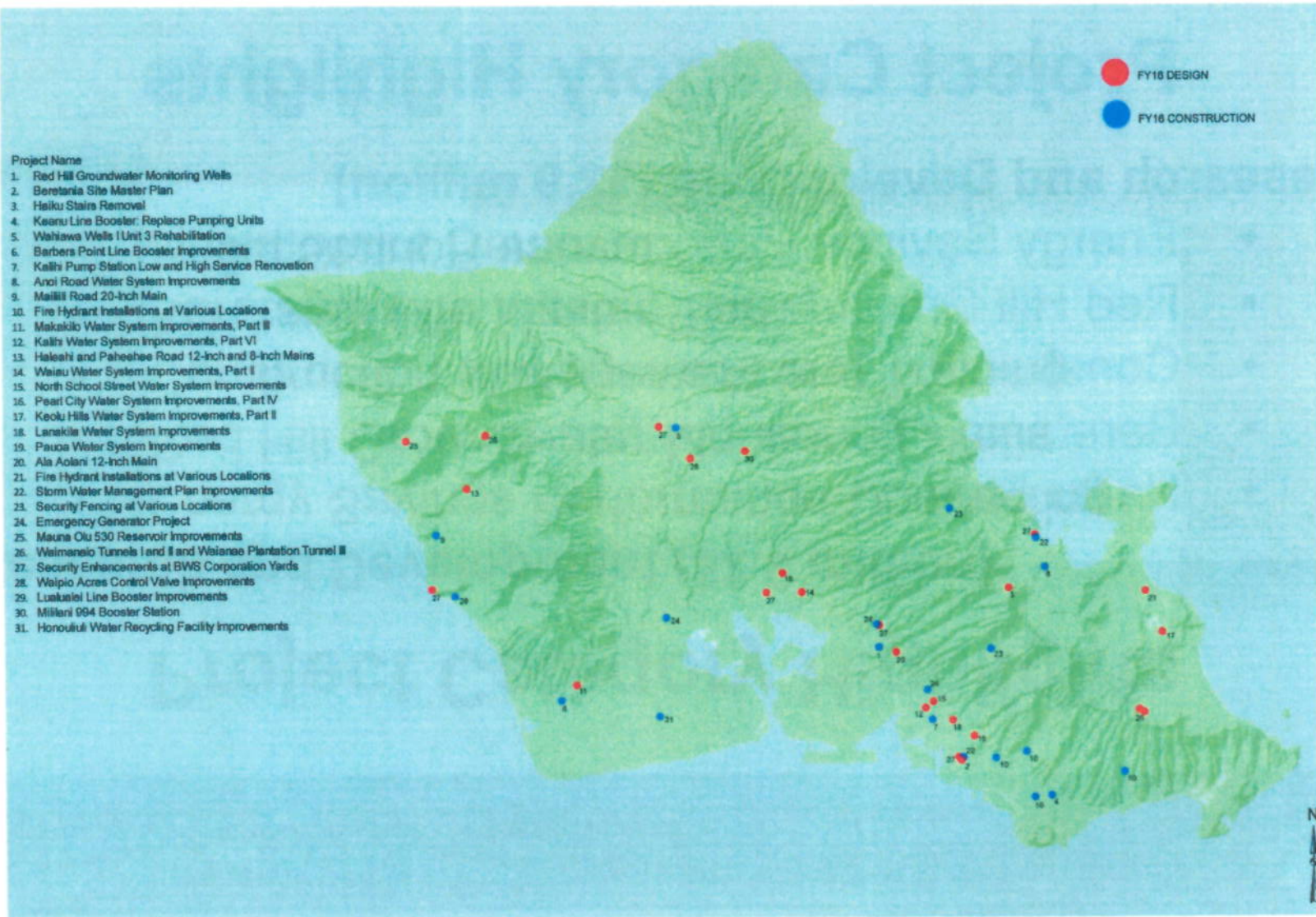


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## Project Category Highlights

### Research and Development (\$2.9 million)

- Energy Savings Performance Contracting
- Red Hill Groundwater Monitoring Wells
- Construction Management and Training
- Beretania Site Master Plan
- Haiku Stairs Removal





## Project Category Highlights

### Renewal and Replacement (\$51.3 million)

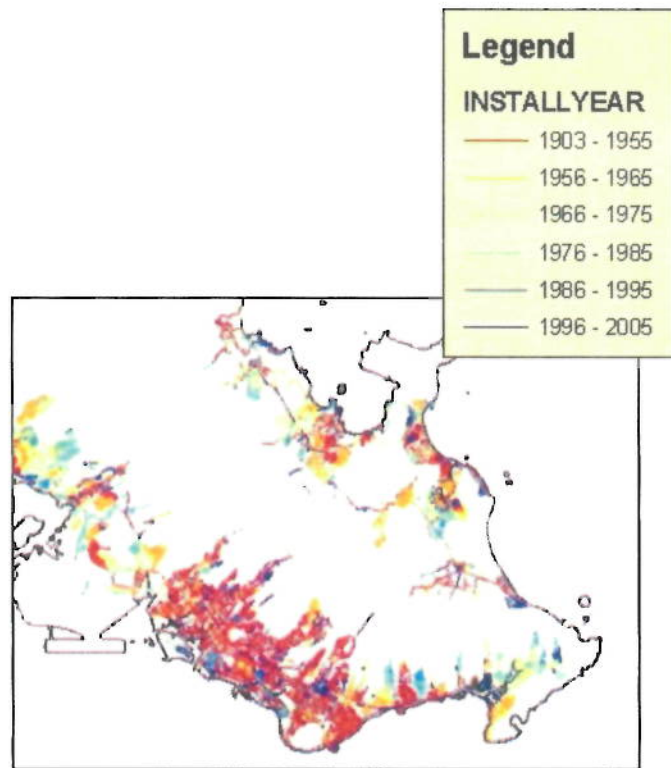
- Keanu Line Booster
- Barbers Point Line Booster
- Kalihi Pump Station Low and High Service





## Project Category Highlights

### Renewal and Replacement (continued)



- Anoi Road Water System Improvements
- Mailiili Road 20-Inch Main
- Fire Hydrant Installations at Various Locations
- Water System Improvements in Waianae, Makakilo, Pearl City, Waiau, Moanalua, Kalihi, Pauoa and Kailua





## Project Category Highlights

### Renewal and Replacement (continued)

- Storm Water Management Plan Improvements
- Emergency Generator Installations
- Facility Repair and Renovation

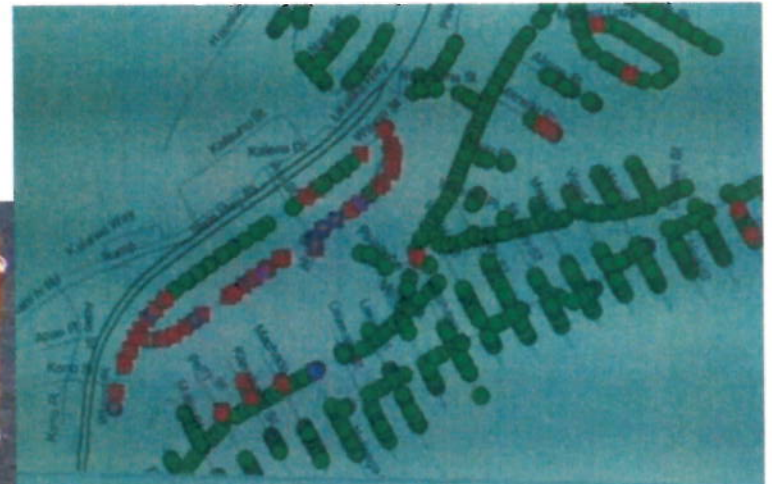




## Project Category Highlights

### Renewal and Replacement (continued)

- Computerized Maintenance Management System
- Accounting System (NALU) Enhancements
- Meter Reading Technology Evaluation
- Data Center Renovation
- Security Fencing





## Project Category Highlights

### Capacity Expansion (\$15.4 million)

- Lualualei Line Booster Improvements
- GAC Facility Improvements
- Honouliuli Water Recycling Facility Improvements
- Backup Power System for Wireless Systems
- Wireless & Security Camera Systems



# WATER FOR LIFE

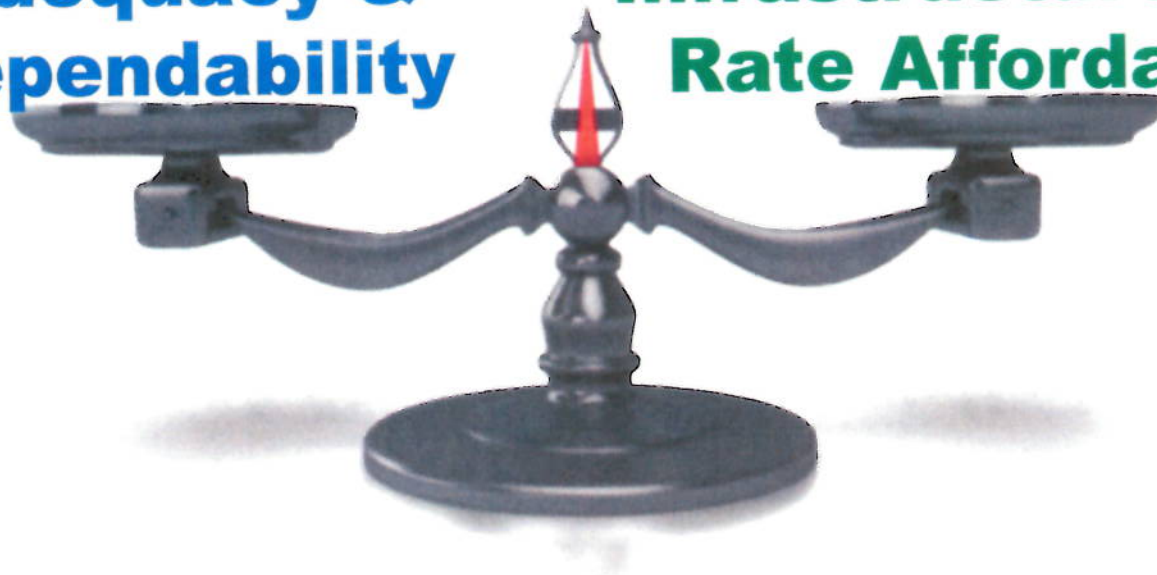
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**Water Service  
Adequacy &  
Dependability**

**Infrastructure Costs  
Rate Affordability**





## FY 2016 Operating and Capital Improvement Program Budget Summary

	Operating Fund	Special Expendable Fund	State Revolving Fund	Reserve Release Fund	Total
Operating Budget	\$186,979,296	---	---	---	\$186,979,296
Capital Improvement Program Budget	\$61,529,290	\$3,650,000	\$15,510,000	\$2,978,210	\$83,667,500
Total	\$248,508,586	\$3,650,000	\$15,510,000	\$2,978,210	\$270,646,796



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# Questions



# **BOARD OF WATER SUPPLY**

City and County of Honolulu  
Honolulu, Hawaii



## **FY 2016 PROPOSED BUDGET**

For the Fiscal Year  
Beginning July 1, 2015 and  
Ending June 30, 2016

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

**OPERATING AND CAPITAL IMPROVEMENT PROGRAM (CIP) BUDGET**

**2016 BUDGET**

**For the Fiscal Year beginning  
July 1, 2015 and ending June 30, 2016**

**SUBMITTED BY:**

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

**APPROVED:**

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**DUANE R. MIYASHIRO, Chair  
May 26, 2015**

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

**BOARD MEMBERS**

**Duane R. Miyashiro, Chair**

**Adam C. Wong, Vice-Chair**

**Theresia C. McMurdo, Member**

**David C. Hulihee, Member**

**Kapua Sproat, Member**

**Ross S. Sasamura, Ex-Officio**

**Ford N. Fuchigami, Ex-Officio**

May 26, 2015

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

Ladies and Gentlemen:

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, 2015 to June 30, 2016.

### FINANCIAL PLAN

The proposed Operating Budget for FY 2016 is based upon total operating fund resources of \$276.1 million, to be derived from operating revenues of \$219.2 million and an estimated carryover balance from FY 2015 of \$56.9 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 \$36 million and a carryover balance of \$20.9 million. The proposed operating fund expenditure allocations are \$186.9 million for operating expenses and \$61.5 million for the Capital Improvement Program (CIP). A projected ending balance of \$27.7 million will be unappropriated.

The proposed Capital Improvement Program budget totals \$83.7 million, to be funded by \$61.5 million from the Operating Fund; \$3.7 million from the Special Expendable Fund; \$15.5 million from the State Revolving Fund; and \$3.0 million from the Reserve Release Fund.

## 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 2016, we are projecting total revenues of \$219.2 million; which is \$1.6 million or 0.7 percent more than total revenues budgeted for FY 2015. Total revenues will increase by only 0.7 percent even though a 9.65 percent rate increase is scheduled for FY 2016; this is due to the decreasing trend in water consumption and demand elasticity due to the rate change.

	FY 2014	FY 2015	FY 2016	Percent Change
<u>Revenue Sources</u>	<u>Actual</u>	<u>Budgeted</u>	<u>Budgeted</u>	<u>FY 2016 over FY 2015</u>
Metered Sales:				
Potable and Non-potable Water	185,708,376	205,845,945	206,577,000	0.4%
Recycled Water	5,359,761	5,789,152	5,568,360	-3.8%
Other Revenues	<u>5,814,538</u>	<u>5,998,467</u>	<u>7,056,359</u>	<u>17.6%</u>
Total Revenues	<u>196,882,675</u>	<u>217,633,564</u>	<u>219,201,719</u>	<u>0.7%</u>

### Metered Sales – Potable Water and Non-Potable

Potable and non-potable water sales at \$206.6 million are projected to increase by 0.4 percent over the FY 2015 budgeted amount. This increase is primarily due to a rate adjustment offset by a decreasing trend in potable water consumption.

**Metered Sales – Recycled Water**

Recycled water sales at \$5.6 million is projected to decrease by 3.8 percent when compared to the FY 2015 budgeted amounts.

**Other Revenues**

Other Revenues of \$7.1 million will be \$1.1 million higher than the FY 2015 budgeted amount due to an anticipated increase in interest income of \$800 thousand. Interest income is interest revenue earned on the Board's investments.

**B. EXPENDITURES**

The proposed total operating expenditures for FY 2016 are budgeted at \$248.5 million. This represents an increase of \$8.7 million, or 3.6 percent more than the amount budgeted for the current fiscal year. This change is primarily attributable to increases in funding for materials, supplies and services of \$4.4 million, increase in funding for personnel services of \$2.9 million, an increase in operating fund requirements for the Capital Improvement Program of \$1.1 million; an increase in funding for fixed charges of \$440 thousand and an increase in funding for debt service of \$106 thousand. These increases are offset by a decrease in funding for general plant and equipment of \$110 thousand.

Highlights of the proposed Operating Budget for FY 2016 are presented following the next table.

**Summary of Proposed Operating Budget, by Major Cost Categories**

<u>Major Cost Categories</u>	<u>FY 2014</u>	<u>% of</u>	<u>FY 2015</u>	<u>% of</u>	<u>FY 2016</u>	<u>% of</u>	<u>FY 2016 over FY 2015</u>	
	<u>Actual</u>	<u>Total</u>	<u>Budgeted</u>	<u>Total</u>	<u>Budgeted</u>	<u>Total</u>	<u>Amount</u>	<u>Percent</u>
Personnel Services	32,985,763	16.1%	43,930,662	18.3%	46,790,064	18.8%	2,859,401	6.5%
Materials, Supplies, and Services	34,647,679	16.9%	50,293,381	21.0%	54,691,932	22.0%	4,398,552	8.7%
Equipment	2,009,981	1.0%	3,556,638	1.5%	3,446,500	1.4%	-110,138	-3.1%
Debt Service	22,047,439	10.7%	23,205,000	9.7%	23,311,000	9.4%	106,000	0.5%
Fixed Charges	50,603,656	24.7%	58,299,800	24.3%	58,739,800	23.6%	440,000	0.8%
 Total Operating Expenditures	 142,294,518	 69.3%	 179,285,481	 74.8%	 186,979,296	 75.2%	 7,693,815	 4.3%
 Transfer to Capital Improvement Program	 62,977,695	 30.7%	 60,476,300	 25.2%	 61,529,290	 24.8%	 1,052,990	 1.7%
 Total Expenditures	 <u>205,272,213</u>	 <u>100.0%</u>	 <u>239,761,781</u>	 <u>100.0%</u>	 <u>248,508,586</u>	 <u>100.0%</u>	 <u>8,746,805</u>	 <u>3.6%</u>

### Personnel Services

The proposed personnel services budget of \$46.8 million is \$2.9 million or 6.5 percent more than personnel services budgeted for the current year. This increase is primarily due to the funding for additional positions and wage and salary adjustments due to the collective bargaining agreements which will become effective in fiscal year 2016.

### Materials, Supplies and Services (MS&S)

The proposed MS&S budget of \$54.7 million is \$4.4 million or 8.7 percent more than the expenditures budgeted for the current year. This is primarily due to an increase in funding in contractual services to support the Customer Information System (CIS) \$2.1 million; additional funding for the meter replacement program \$1.2 million; an increase in funding the Automatic Meter Reading (AMR) program \$1.08 million. An increase in funding is also being programmed for outside legal services \$1.0 million. Funding is also being programmed in FY 2016 for a Customer Care Quality Assurance Program \$200 thousand and additional funds are also being budgeted for various studies in climatic change vulnerability, rainfall and transpiration \$222 thousand. These increases are offset by a decrease in funding for repairs to the Honouliuli Recycled Water Facility.

### Equipment

The proposed equipment budget of \$3.4 million is \$110 thousand or 3.1 percent less than the amount budgeted in FY 2015. This net decrease is due to lower equipment needs in various divisions for fiscal year 2016 offset by an increase in equipment due to the expansion of the BWS vehicle fleet \$390 thousand and additional funds are being programmed for the initial phase of the modernization of the departments office workstations primarily in the Public Service Building and Engineering Building \$295 thousand.

### Debt Service

The total debt service requirement for FY 2016 is \$23.3 million which is \$106 thousand or 0.5 percent more than the amount budgeted in FY 2015. The debt service for bonds payable is \$2.6 million less than the amount budgeted in FY 2015. This decrease is due to the refinancing of the department's bonds payable. This decrease is offset by an increase in the debt service for notes payable. \$2.7 million more is budgeted than in FY 2015. This increase is due to the department capitalizing on the low interest rates offered through the State of Hawaii/DOH State Revolving Fund and using it to retire higher interest debt.

**Fixed Charges**

The proposed fixed charges budget of \$58.7 million is \$440 thousand, or 0.8 percent more than the amount budgeted for the current year. This increase is from additional funding requirements for the unfunded liability of the EUTF Health Fund post-employment costs \$500 thousand; the department's contribution to the Hawaii State Employee Retirement System \$492 thousand and an increase in the department's FICA contributions \$360 thousand. These increases are offset by a decrease in the amount budgeted for electricity costs in powering the department's pumping and storage facilities.

**PART II. CAPITAL IMPROVEMENT PROGRAM (CIP) BUDGET**

A CIP budget of \$83.7 million is proposed for FY 2016 to be funded as follows: Operating Fund - \$61.5 million; Special Expendable Fund - \$3.7 million; the State Revolving Fund - \$15.5 million and the Reserve Release Fund - \$3.0 million.

Highlights of the proposed CIP for next year include funds for the renewal and replacement of various BWS pipelines, facilities and pumping stations(\$51.4 million),

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

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OPERATING BUDGET

CAPITAL IMPROVEMENT PROGRAM  
BUDGET

Board of Water Supply  
Summary of All Funds  
Operating Fund, Special Expandable Fund, State Revolving Fund and Reserve Release Fund  
Fiscal Year 2016

	Operating Fund	Special Expandable Fund	State Revolving Fund	Reserve Release Fund	Total All Funds by Program
Operating Budget	186,979,296	-	-		186,979,296
Capital Improvement Program	61,529,290	3,650,000	15,510,000	2,978,210	83,667,500
Total by Fund	248,508,586	3,650,000	15,510,000	2,978,210	270,646,796

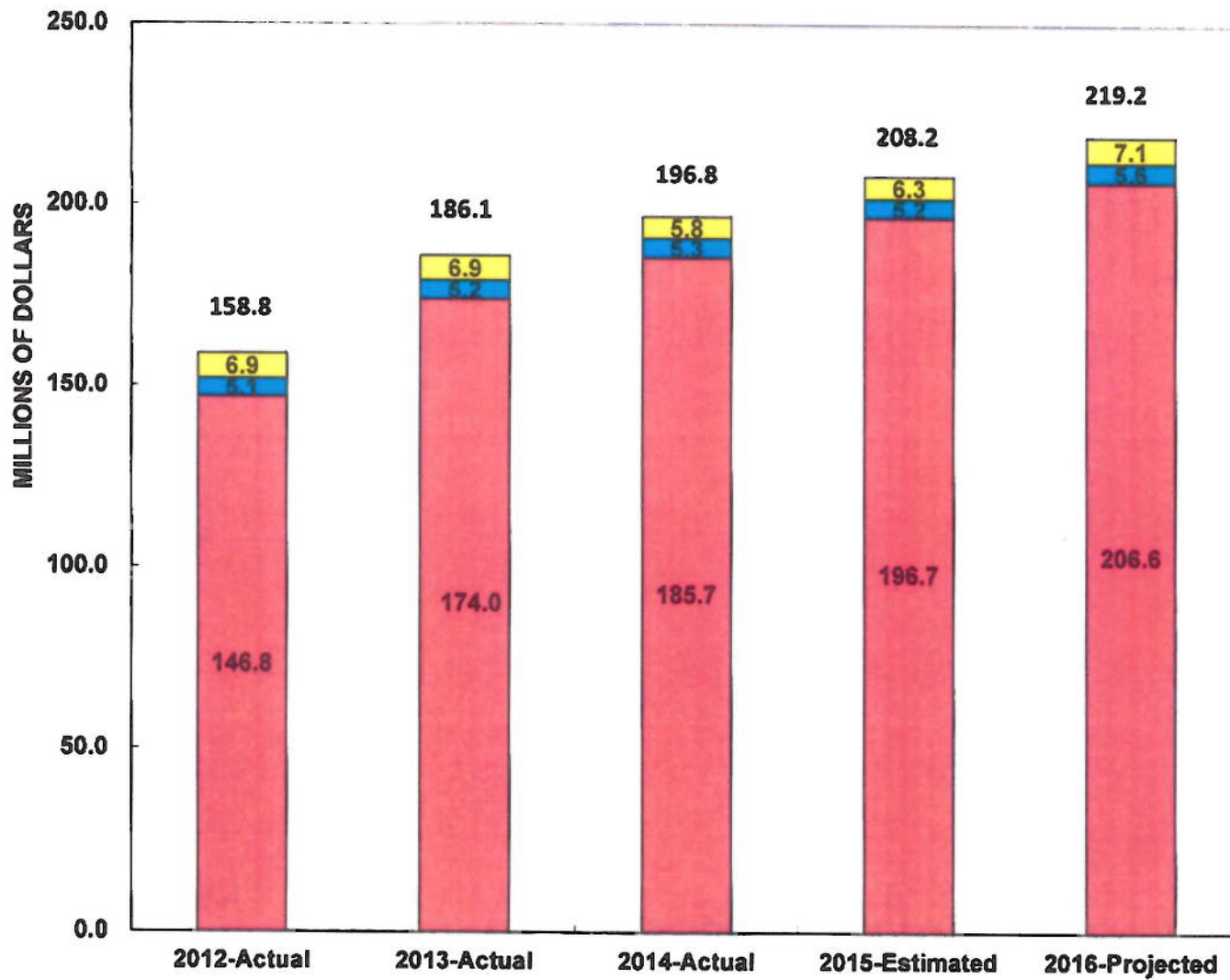
## **I. OPERATING BUDGET**

Graphs .....	GR-1
Resources and Expenditures .....	OP-1
Revenues .....	OP-3
Expenditure Classification – Department Summary .....	OP-5
Expenditures by Major Program and/or Activity:	
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Departmental Fixed Charges .....	OP-16
Office of the Manager and Chief Engineer .....	OP-18
Executive Support Office .....	OP-20
Communications Office .....	OP-32
Ocean Cooling .....	OP-34
Human Resources Office .....	OP-36
Water Quality Division .....	OP-38
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Land Division .....	OP-60
Water Resources Division .....	OP-62
Field Operations Division .....	OP-78
Capital Projects Division .....	OP-98
Water Systems Operations Division .....	OP-110
Information Technology Division .....	OP-132
Finance Division .....	OP-142

## **II. CAPITAL IMPROVEMENT PROGRAM (CIP) BUDGET**

Summary .....	CIP- SUMMARY
CIP Project Details .....	CIP-1

## OPERATING FUND REVENUES

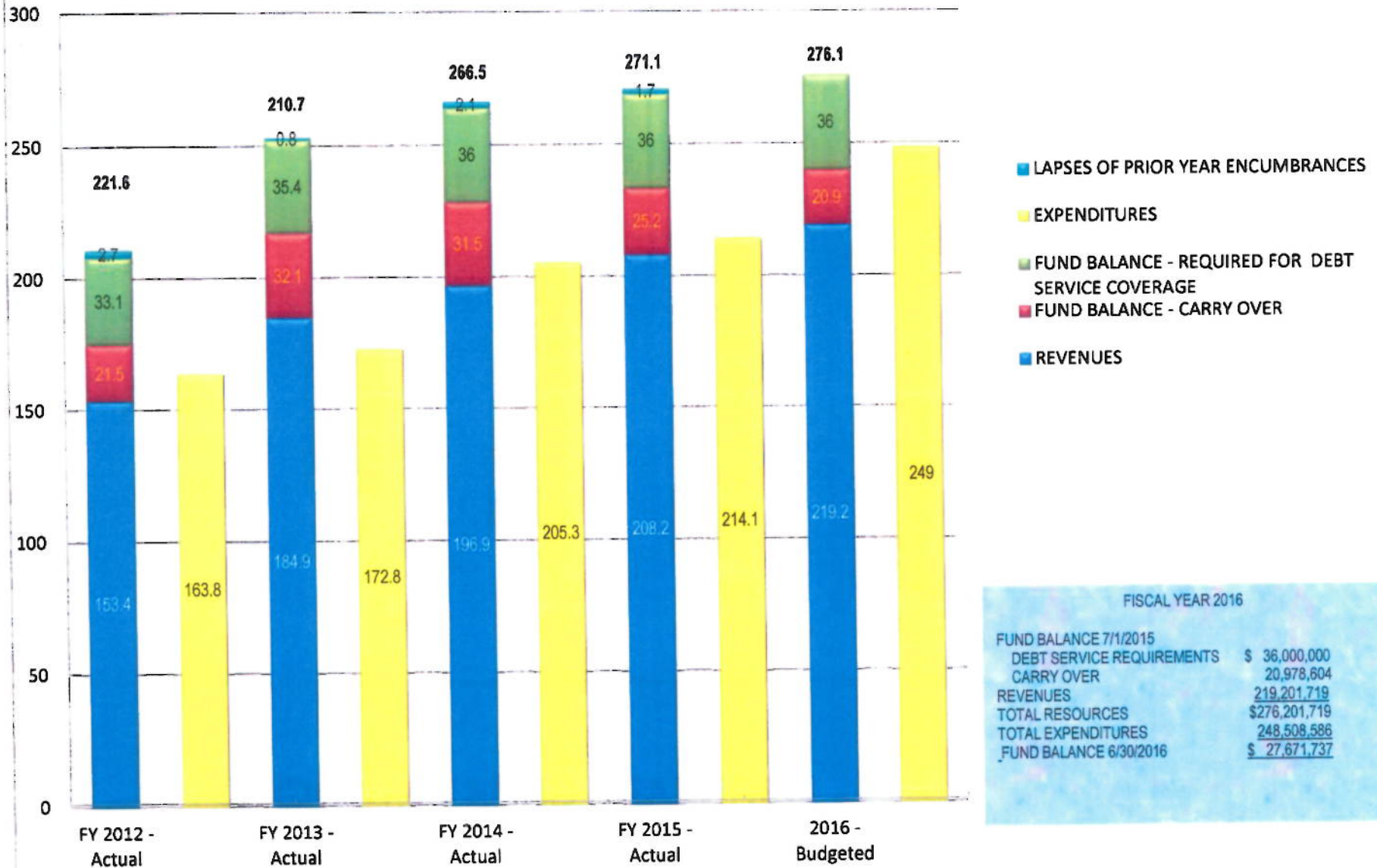


### Fiscal Year 2016

Metered Sales - Potable & Non-Potable	\$ 206,577,000
Metered Sales - Recycled	5,568,360
Other Revenues	<u>7,056,359</u>
<b>Total Revenues</b>	<b>\$ 219,201,719</b>

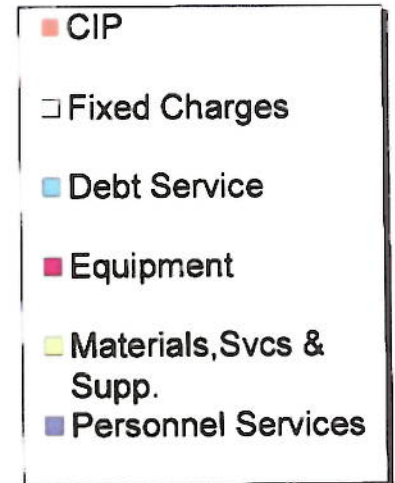
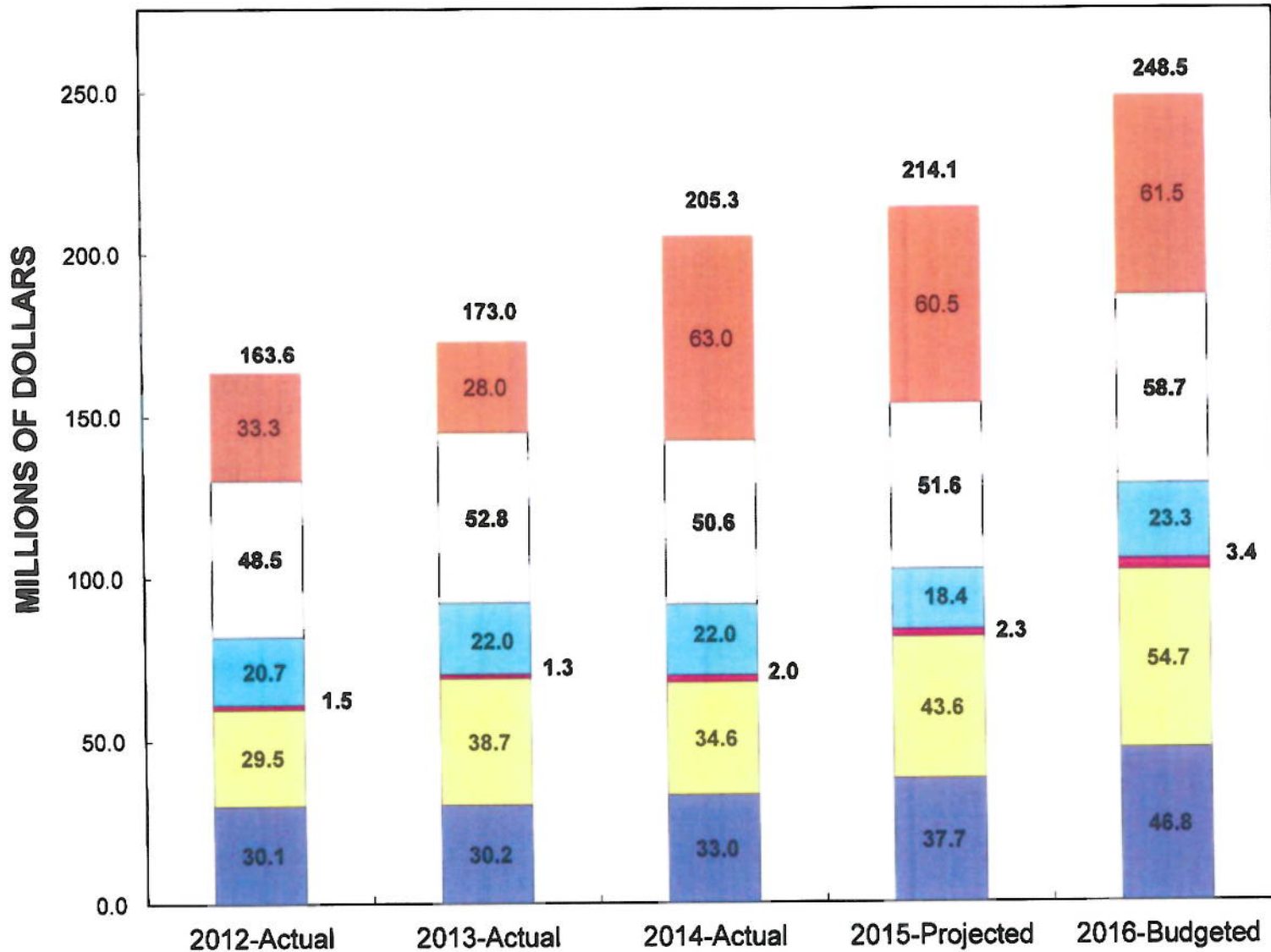
## TOTAL RESOURCES VS. TOTAL EXPENDITURES

(millions of dollars)



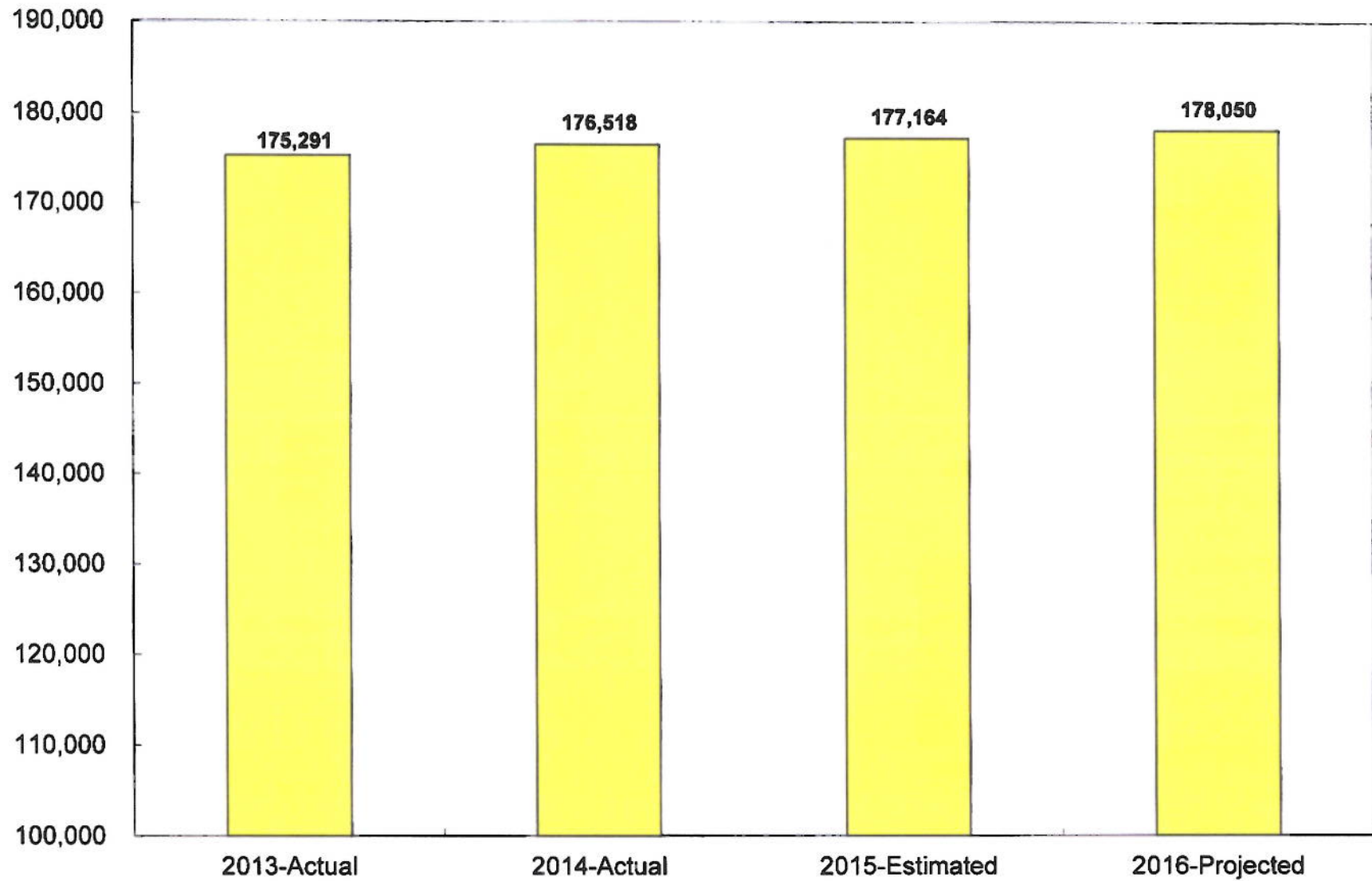
FISCAL YEAR 2016	
FUND BALANCE 7/1/2015	
DEBT SERVICE REQUIREMENTS	\$ 36,000,000
CARRY OVER	20,978,604
REVENUES	219,201,719
TOTAL RESOURCES	\$276,201,719
TOTAL EXPENDITURES	248,508,586
FUND BALANCE 6/30/2016	\$ 27,671,737

# OPERATING FUND EXPENDITURES



Fiscal Year 2016	
CIP	\$ 61,529,290
Fixed Charges	58,739,800
Debt Service	23,311,000
Equipment	3,446,500
MS&S	54,691,932
Personnel Srv	46,790,064
Total	\$248,508,586

## NUMBER OF CUSTOMERS



FISCAL YEAR



PART I

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OPERATING BUDGET

**Board of Water Supply  
Operating Budget  
Fiscal Year 2016**

DEPARTMENT SUMMARY

RESOURCES AND EXPENDITURES	FY 2014	FY 2015		FY 2016
	Actual	Budget	Estimated	Budget
BEGINNING BALANCE	67,504,598	46,320,753	61,202,831	56,978,604
Revenues	196,882,675	217,633,564	208,179,590	219,201,719
Transfer from City	-	-	-	-
Transfer from Special Expendable Fund	-	-	-	-
Lapses/Adjustments	2,087,770	-	1,690,123	-
Total Resources	266,475,043	263,954,317	271,072,544	276,180,323
Operating Expenditures	142,294,518	179,285,481	153,617,640	186,979,296
Capital Program	62,977,695	60,476,300	60,476,300	61,529,290
Total Expenditures	205,272,213	239,761,781	214,093,940	248,508,586
ENDING BALANCE	61,202,831	24,192,536	56,978,604	27,671,737



**Board of Water Supply  
Operating Budget  
Fiscal Year 2016**

DEPARTMENT SUMMARY

REVENUES	FY 2014	FY 2015		FY 2016
	Actual	Budget	Estimated	Budget
Metered Sales - Potable and Non-Potable	185,708,376	205,845,945	196,740,000	206,577,000
Metered Sales - Recycled	5,359,761	5,789,152	5,184,489	5,568,360
Automatic Fire Sprinkler Charges	539,950	570,000	580,000	570,000
Ocean Cooling	1,250,715	896,367	923,351	924,659
Other Water Revenues	1,574,411	917,100	932,750	932,700
Revenues from Installations	274,815	950,000	980,000	950,000
Merchandising and Jobbing	243,967	200,000	160,000	200,000
Interest Income	1,532,596	2,200,000	2,200,000	3,000,000
Miscellaneous Non-Operating Revenue	202,973	75,000	289,000	289,000
Non-Operating Rental Income	195,111	190,000	190,000	190,000
<b>TOTAL</b>	<b>196,882,675</b>	<b>217,633,564</b>	<b>208,179,590</b>	<b>219,201,719</b>



**Board of Water Supply  
Operating Budget  
Fiscal Year 2016**

DEPARTMENT SUMMARY

Expenditure Classification	FY 2014	FY 2015		FY 2016
	Actual	Budget	Estimated	Budget
Personnel Services	32,985,763	43,930,662	37,731,923	46,790,064
Materials, Supplies and Services	34,647,679	50,293,381	43,578,470	54,691,932
Equipment	2,009,981	3,556,638	2,271,100	3,446,500
Debt Service	22,047,439	23,205,000	18,419,000	23,311,000
Departmental Fixed Charges	50,603,656	58,299,800	51,617,147	58,739,800
<b>SUBTOTAL - OPERATING EXPENDITURES</b>	<b>142,294,518</b>	<b>179,285,481</b>	<b>153,617,640</b>	<b>186,979,296</b>
Transfer to Capital Program	62,977,695	60,476,300	60,476,300	61,529,290
<b>TOTAL EXPENDITURES</b>	<b>205,272,213</b>	<b>239,761,781</b>	<b>214,093,940</b>	<b>248,508,586</b>



**Board of Water Supply  
Operating Budget  
Fiscal Year 2016**

DEPARTMENT SUMMARY BY DIVISION / OFFICE

Expenditures (Personnel Services; Materials, Supplies & Services and Equipment)	FY 2014	FY 2015		FY 2016
	Actual	Budget	Estimated	Budget
Office of the Manager and Chief Engineer	817,752	1,018,510	801,105	1,186,474
Executive Support Office	3,220,921	4,740,855	4,101,150	6,540,614
Communications Office	700,834	894,093	787,169	1,090,124
Ocean Cooling	642,812	647,808	446,008	647,808
Water Quality	1,878,000	2,245,350	2,218,677	2,594,852
Customer Care	4,577,110	5,191,639	4,754,290	5,581,926
Water Resources	7,883,000	12,164,799	9,064,382	10,489,124
Land	293,738	835,332	671,672	751,956
Field Operations	17,415,449	25,418,873	23,677,875	29,440,606
Capital Projects	5,661,022	8,113,065	7,305,490	7,517,770
Water Systems Operations	12,479,000	17,538,764	14,116,397	17,584,573
Information Technology	7,182,084	11,454,092	8,865,000	13,647,239
Human Resources	1,373,102	2,142,247	1,915,730	2,280,120
Finance	5,518,599	5,375,254	4,856,548	5,575,309
TOTAL OF DIVISIONS & OFFICES	69,643,423	97,780,681	83,581,493	104,928,496
Debt Service	22,047,439	23,205,000	18,419,000	23,311,000
Departmental Fixed Charges	50,603,656	58,299,800	51,617,147	58,739,800
TOTAL OPERATING EXPENDITURES	142,294,518	179,285,481	153,617,640	186,979,296



**Board of Water Supply  
Operating Budget  
Fiscal Year 2016**

**DEPARTMENT SUMMARY**

Expenditure Classification	FY 2014 Actual	FY 2015 Budget	Estimated	FY 2016 Budget
PERSONNEL SERVICES (NO. OF POSITIONS)				
	(6)	(7)	(5)	(7)
Office of the Manager and Chief Engineer	590,623	728,599	563,684	742,484
	(12)	(18)	(15)	(19)
Executive Support Office	453,120	954,210	751,776	1,065,155
	(9)	(10)	(9)	(11)
Communications Office	496,190	577,818	631,663	715,724
	(1)	(1)	(1)	(1)
Ocean Cooling	220,008	220,008	220,008	220,008
	(16)	(21)	(17)	(24)
Water Quality	958,000	1,227,710	1,045,970	1,437,722
	(86)	(89)	(82)	(87)
Customer Care	4,175,727	4,266,189	4,086,540	4,405,447
	(30)	(38)	(28)	(36)
Water Resources	1,803,000	2,401,914	1,869,482	2,350,895
	(5)	(5)	(5)	(5)
Land	255,997	293,532	286,952	309,936
	(210)	(255)	(228)	(267)
Field Operations	10,766,530	14,944,073	13,497,565	16,370,606
	(49)	(66)	(53)	(66)
Capital Projects	3,677,824	4,644,015	4,223,866	4,831,920
	(70)	(106)	(87)	(115)
Water Systems Operations	4,240,000	6,326,464	4,990,936	6,908,573
	(35)	(54)	(37)	(54)
Information Technology	2,380,587	3,728,800	2,597,965	3,867,764
	(8)	(10)	(9)	(10)
Human Resources	423,957	529,877	491,468	589,220
	(58)	(66)	(51)	(56)
Finance	2,544,200	3,087,454	2,474,048	2,974,609
(NO. OF POSITIONS)	(595)	(745)	(628)	(758)
<b>TOTAL PERSONNEL SERVICES</b>	<b>32,985,763</b>	<b>43,930,662</b>	<b>37,731,923</b>	<b>46,790,064</b>



**Board of Water Supply  
Operating Budget  
Fiscal Year 2016**

DEPARTMENT SUMMARY

Expenditure Classification	FY 2014	FY 2015		FY 2016
	Actual	Budget	Estimated	Budget
MATERIALS, SUPPLIES AND SERVICES				
Office of the Manager and Chief Engineer	227,129	289,911	237,421	443,990
Executive Support Office	2,759,801	3,786,645	3,349,374	5,180,059
Communications Office	204,644	316,275	155,506	374,400
Ocean Cooling	422,804	427,800	226,000	427,800
Water Quality	920,000	882,640	1,037,907	1,076,030
Customer Care	401,383	875,450	617,750	1,156,479
Water Resources	5,961,000	9,716,745	7,149,900	8,098,229
Land	37,741	541,800	384,720	442,020
Field Operations	6,648,919	10,225,400	10,140,310	13,070,000
Capital Projects	1,983,198	3,269,050	3,081,624	2,685,850
Water Systems Operations	6,840,000	9,152,200	7,584,261	8,115,900
Information Technology	4,352,516	6,994,294	5,824,935	9,364,575
Human Resources	949,145	1,612,370	1,424,262	1,690,900
Finance	2,939,399	2,202,800	2,364,500	2,565,700
<b>TOTAL MATERIALS, SUPPLIES AND SERVICES</b>	<b>34,647,679</b>	<b>50,293,381</b>	<b>43,578,470</b>	<b>54,691,932</b>



**Board of Water Supply  
Operating Budget  
Fiscal Year 2016**

DEPARTMENT SUMMARY

Expenditure Classification	FY 2014 Actual	FY 2015 Budget	FY 2015 Estimated	FY 2016 Budget
<b>EQUIPMENT</b>				
Office of the Manager and Chief Engineer	-	-	-	-
Executive Support Office	8,000	-	-	295,400
Communications Office	-	-	-	-
Ocean Cooling	-	-	-	-
Water Quality	-	135,000	134,800	81,100
Customer Care	-	50,000	50,000	20,000
Water Resources	119,000	46,140	45,000	40,000
Land	-	-	-	-
Field Operations	-	249,400	40,000	-
Capital Projects	-	200,000	-	-
Water Systems Operations	1,399,000	2,060,100	1,541,200	2,560,100
Information Technology	448,981	730,998	442,100	414,900
Human Resources	-	-	-	-
Finance	35,000	85,000	18,000	35,000
<b>TOTAL EQUIPMENT</b>	<b>2,009,981</b>	<b>3,556,638</b>	<b>2,271,100</b>	<b>3,446,500</b>

Bond Issues

Year Issued	Amount (\$)	Year Expires	Years
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 Budget  
Fiscal Year 2016**

DEBT SERVICE

Expenditure Classification	FY 2014 Actual	FY 2015 Budget	FY 2015 Estimated	FY 2016 Budget
Water System Revenue Bonds				
Series 2004	2,563,600	2,465,000	-	-
Series 2006	13,200,428	13,316,000	6,695,000	6,700,000
Series 2012	4,749,275	4,748,000	4,748,000	4,746,000
Series 2014 A&B		-	3,958,000	6,447,000
DEBT SERVICE - BONDS PAYABLE	20,513,303	20,529,000	15,401,000	17,893,000
SRF Loans	1,534,136	2,676,000	3,018,000	5,418,000
DEBT SERVICE - NOTES PAYABLE	1,534,136	2,676,000	3,018,000	5,418,000
DEBT SERVICE REQUIREMENTS	22,047,439	23,205,000	18,419,000	23,311,000

**Section's Activity**

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

**Departmental Fixed Charges**

- 4610 Cost of power charged by Hawaiian Electric Company for pumping facilities
- 4620 Consolidation of all electricity charges for administrative and support facilities.
- 5600 Central Administrative Service Expenses (CASE) fee paid to the City & County of Honolulu.
- 6010 Actual requirements per Employees' Retirement System resolution
- 6100 Hawaii Employer-Union Trust Fund Health Benefits costs and past service liabilities for employees.
- 6200 Hawaii Employer-Union Trust Fund Health Benefits costs and past service liabilities for retirees.
- 6250 Hawaii Employer-Union Trust Fund Health Benefits post-employment unfunded liability

**BOARD OF WATER SUPPLY  
OPERATING BUDGET  
FISCAL YEAR 2016**

**5990 - FIXED CHARGES AND DEBT SERVICE**

OBJECT ACCOUNT	OBJECT DESCRIPTION	FY 2014 ACTUALS	FY 2015 BUDGET	FY 2015 ACTUALS & FCST.	FY 2016 BUDGET
7071	BOND INTEREST	12,883,072	12,689,000	7,674,000	10,023,000
1810	BOND PRINCIPAL	9,164,367	10,516,000	10,745,000	13,288,000
	<b>TOTAL DEBT SERVICE</b>	<b>22,047,439</b>	<b>23,205,000</b>	<b>18,419,000</b>	<b>23,311,000</b>
	DEPARTMENTAL FIXED CHGS				
4610	ELECTRIC POWER-PLANTS	26,402,945	31,000,000	25,183,553	30,000,000
4620	ELECTRICITY	1,742,242	1,700,000	1,491,390	1,700,000
4660	SEWER SERVICE CHARGE	102,651	112,800	90,783	112,800
5600	CASE FEES	3,300,000	3,300,000	3,300,000	3,300,000
6010	RETIREMENT SYSTEM-NORMAL	5,116,679	5,208,000	5,509,544	5,700,000
6020	FICA CONTRIBUTIONS	2,361,352	2,400,000	2,438,609	2,760,000
6100	HEALTH BENEFITS-EMPLOYEES	2,500,075	2,904,000	2,919,613	3,000,000
6200	HEALTH BENEFITS-RETIREEES	5,046,667	5,720,000	4,737,647	5,712,000
6250	HEALTH FUND POST-EMPLOYMENT COSTS	3,934,333	5,900,000	5,900,000	6,400,000
6320	UNEMPLOYMENT INSUR BENEFITS	96,713	55,000	46,008	55,000
1570	MISC /REFUNDS	-	-	-	-
	<b>TOTAL FIXED CHARGES</b>	<b>50,603,656</b>	<b>58,299,800</b>	<b>51,617,147</b>	<b>58,739,800</b>

**Office'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.

**Materials, Supplies and Services**

4255 Board of Directors expenses

4270 Corporation Counsel services.

4720 Conference and travel expenses for BWS personnel.

4910 AWWA RF subscription, AWWA membership dues, and other miscellaneous dues.

**BOARD OF WATER SUPPLY  
OPERATING BUDGET  
FISCAL YEAR 2016**

**5100 - OFFICE OF THE MANAGER AND CHIEF ENGINEER**

<b>OBJECT ACCOUNT</b>	<b>OBJECT DESCRIPTION</b>	<b>FY 2014 ACTUALS</b>	<b>FY 2015 BUDGET</b>	<b>FY 2015 ACTUALS &amp; FCST.</b>	<b>FY 2016 BUDGET</b>
4110	REGULAR SALARIES	590,623	728,599	563,684	742,484
4120	OVERTIME	-	-	-	-
4130	MISC PAYROLL COSTS	-	-	-	-
	<b>TOTAL PERSONNEL SERVICES</b>	<b>590,623</b>	<b>728,599</b>	<b>563,684</b>	<b>742,484</b>
	<b>TOTAL POSITIONS</b>	<b>6</b>	<b>7</b>	<b>5</b>	<b>7</b>
4250	OTHER CONTRACTUAL SERVICE	8,523	4,260	1,553	3,540
4255	OTHER SERVICES	5,230	44,400	7,638	42,836
4260	ADV & PUBL OF NOTICES	2,383	500	-	500
4265	PRINTING	1,884	1,000	740	1,000
4267	PRINTED FORMS	-	-	503	-
4270	PROFESSIONAL SERVICES	32,215	34,093	41,824	155,000
4430	MISC SUPPLIES	3,288	5,000	3,688	5,000
4460	OTHER MATERIALS & SUPPLIE	818	925	234	13,400
4500	EDUCATION & TRAINING	75	1,000	1,974	1,000
4720	CONFERENCE EXPENSES	13,631	33,321	15,921	45,781
4815	REPAIR AND MAINT OF EQUIP	1,079	3,000	1,699	3,000
4910	MISC FEES & REGISTRATIONS	158,003	162,412	161,647	170,433
8050	EQUIPMENT UNDER \$5,000	-	-	-	2,500
	<b>TOTAL MATERIAL &amp; SUPPLIES</b>	<b>227,129</b>	<b>289,911</b>	<b>237,421</b>	<b>443,990</b>
1270	GENERAL PLANT & EQUIPMENT	-	-	-	-
	<b>TOTAL EQUIPMENT</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
	<b>TOTAL OPERATING EXPENDITURES</b>	<b>817,752</b>	<b>1,018,510</b>	<b>801,105</b>	<b>1,186,474</b>

**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.

Details of expenditures are shown in each section.

**BOARD OF WATER SUPPLY  
OPERATING BUDGET  
FISCAL YEAR 2016**

**EXECUTIVE SUPPORT OFFICE - TOTAL**

OBJECT ACCOUNT	OBJECT DESCRIPTION	FY 2014 ACTUALS	FY 2015 BUDGET	FY 2015 ACTUALS & FCST.	FY 2016 BUDGET
4110	REGULAR SALARIES	448,514	930,210	742,263	1,061,087
4120	OVERTIME	4,606	24,000	9,513	4,068
4130	MISC PAYROLL COSTS	-	-	-	-
	<b>TOTAL PERSONNEL SERVICES</b>	<b>453,120</b>	<b>954,210</b>	<b>751,776</b>	<b>1,065,155</b>
	<b>TOTAL POSITIONS</b>	<b>12</b>	<b>18</b>	<b>15</b>	<b>19</b>
4160	MEALS, MILEAGE, UNIFORM A	772	2,400	1,220	2,700
4250	OTHER CONTRACTUAL SERVICE	862,942	888,720	948,362	1,207,320
4260	ADV & PUBL OF NOTICES	1,972	-	-	-
4265	PRINTING	-	4,000	3,500	3,500
4270	PROFESSIONAL SERVICES	358,352	650,000	350,000	1,700,000
4430	MISC SUPPLIES	4,966	9,500	7,864	12,110
4440	MOTOR VEHICLE PARTS & ACC	-	-	80	-
4460	OTHER MATERIALS & SUPPLIE	20,571	16,950	9,463	9,704
4480	POSTAGE	-	400	-	400
4500	EDUCATION & TRAINING	2,080	12,000	191	12,000
4720	CONFERENCE EXPENSES	2,547	46,000	3,253	18,500
4805	REPAIR AND MAINT OF STRUC	-	75,000	2,380	100,000
4815	REPAIR AND MAINT OF EQUIP	16,000	52,000	-	75,000
4910	MISC FEES & REGISTRATIONS	8,870	4,000	500	5,000
4915	MISCELLANEOUS FINANCIAL E	-	-	13,860	-
5700	LIABILITY INSURANCE POLICIES	1,001,754	1,200,000	1,200,000	1,200,000
6350	CLAIMS FOR PERS INJ & PROP DAMAGE	476,856	800,000	799,884	800,000
8050	EQUIPMENT UNDER \$5,000	2,119	25,675	8,897	33,825
	<b>TOTAL MATERIAL &amp; SUPPLIES</b>	<b>2,759,801</b>	<b>3,786,645</b>	<b>3,349,454</b>	<b>5,180,059</b>
1270	GENERAL PLANT & EQUIPMENT	8,000	-	-	295,400
	<b>TOTAL EQUIPMENT</b>	<b>8,000</b>	<b>-</b>	<b>-</b>	<b>295,400</b>
	<b>TOTAL OPERATING EXPENDITURES</b>	<b>3,220,921</b>	<b>4,740,855</b>	<b>4,101,230</b>	<b>6,540,614</b>

**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.

**Materials, Supplies and Services**

4250 Consultant services to upgrade the department's budget system and a water rate study peer review.

**BOARD OF WATER SUPPLY  
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**EXECUTIVE SUPPORT OFFICE  
5105 - ESO ADMINISTRATION**

<b>OBJECT ACCOUNT</b>	<b>OBJECT DESCRIPTION</b>	<b>FY 2014 ACTUALS</b>	<b>FY 2015 BUDGET</b>	<b>FY 2015 ACTUALS &amp; FCST.</b>	<b>FY 2016 BUDGET</b>
4110	REGULAR SALARIES	-	150,444	109,439	146,957
4120	OVERTIME	-	-	-	-
4130	MISC PAYROLL COSTS	-	-	-	-
	<b>TOTAL PERSONNEL SERVICES</b>	-	<b>150,444</b>	<b>109,439</b>	<b>146,957</b>
	<b>TOTAL POSITIONS</b>	-	<b>3</b>	<b>2</b>	<b>2</b>
4250	OTHER CONTRACTUAL SERVICE	-	50,720	142	300,000
4270	PROFESSIONAL SERVICES	-	-	-	-
4430	MISC SUPPLIES	-	6,000	2,674	4,500
4500	EDUCATION & TRAINING	-	1,000	-	1,000
4720	CONFERENCE EXPENSES	-	12,000	-	8,000
4910	MISC FEES & REGISTRATIONS	-	1,000	-	1,000
4915	MISCELLANEOUS FINANCIAL E	-	-	13,860	-
8050	EQUIPMENT UNDER \$5,000	-	5,600	-	-
	<b>TOTAL MATERIAL &amp; SUPPLIES</b>	-	<b>76,320</b>	<b>16,676</b>	<b>314,500</b>
1270	GENERAL PLANT & EQUIPMENT	-	-	-	295,400
	<b>TOTAL EQUIPMENT</b>	-	-	-	<b>295,400</b>
	<b>TOTAL OPERATING EXPENDITURES</b>	-	<b>226,764</b>	<b>126,115</b>	<b>756,857</b>

**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. Additionally, we ensure the safety and well - being of our employees through a comprehensive safety program and return-to-work program.

**Materials, Supplies and Services**

- 4270 Outside legal counsel; reimbursement to City Corporation Counsel for legal counsel position
- 5700 Insurance coverage for commercial general liability, fire and extended coverage, workers' compensation, public officials liability and underground storage tanks.
- 6350 Claims against the department for personal injuries and property damages.

**BOARD OF WATER SUPPLY  
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**EXECUTIVE SUPPORT OFFICE**

**5110 - RISK MANAGEMENT SECTION**

OBJECT ACCOUNT	OBJECT DESCRIPTION	FY 2014 ACTUALS	FY 2015 BUDGET	FY 2015 ACTUALS & FCST.	FY 2016 BUDGET
4110	REGULAR SALARIES	111,374	214,950	127,130	242,700
4120	OVERTIME	3,606	5,500	2,710	-
4130	MISC PAYROLL COSTS	-	-	-	-
	<b>TOTAL PERSONNEL SERVICES</b>	<b>114,980</b>	<b>220,450</b>	<b>129,840</b>	<b>242,700</b>
	<b>TOTAL POSITIONS</b>	<b>3</b>	<b>4</b>	<b>3</b>	<b>5</b>
4160	MEALS, MILEAGE, UNIFORM A	702	1,200	798	1,200
4250	OTHER CONTRACTUAL SERVICE	300,942	-	370	-
4270	PROFESSIONAL SERVICES	358,352	650,000	350,000	1,700,000
4430	MISC SUPPLIES	928	-	4,202	4,000
4460	OTHER MATERIALS & SUPPLIE	46	-	4,259	4,000
4500	EDUCATION & TRAINING	80	4,000	-	4,000
4720	CONFERENCE EXPENSES	1,547	12,000	2,405	8,000
4815	REPAIR AND MAINT OF EQUIP	-	2,000	-	-
4910	MISC FEES & REGISTRATIONS	8,870	2,200	-	4,000
5700	LIABILITY INSURANCE POLICIES	1,001,754	1,200,000	1,200,000	1,200,000
6350	CLAIMS FOR PERS INJ & PROP DAMAGE	476,856	800,000	799,884	800,000
8050	EQUIPMENT UNDER \$5,000	179	1,500	-	15,500
	<b>TOTAL MATERIAL &amp; SUPPLIES</b>	<b>2,150,256</b>	<b>2,672,900</b>	<b>2,361,998</b>	<b>3,740,700</b>
1270	GENERAL PLANT & EQUIPMENT	-	-	-	-
	<b>TOTAL EQUIPMENT</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
	<b>TOTAL OPERATING EXPENDITURES</b>	<b>2,265,236</b>	<b>2,893,350</b>	<b>2,491,838</b>	<b>3,983,400</b>

**Section's Activity**

The 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 and Oahu Civil Defense, and other Homeland Security organizations.

**Materials, Supplies and Services**

4250 Private security guard services and document shredding services.

4815 Maintenance of access control systems; emergency repair, replacement and installation of security measures

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**EXECUTIVE SUPPORT OFFICE  
5120 - SECURITY**

<b>OBJECT ACCOUNT</b>	<b>OBJECT DESCRIPTION</b>	<b>FY 2014 ACTUALS</b>	<b>FY 2015 BUDGET</b>	<b>FY 2015 ACTUALS &amp; FCST.</b>	<b>FY 2016 BUDGET</b>
4110	REGULAR SALARIES	129,000	119,388	150,895	186,774
4120	OVERTIME	1,000	3,500	6,774	4,068
4130	MISC PAYROLL COSTS	-	-	-	-
	<b>TOTAL PERSONNEL SERVICES</b>	<b>130,000</b>	<b>122,888</b>	<b>157,669</b>	<b>190,842</b>
	<b>TOTAL POSITIONS</b>	<b>4</b>	<b>3</b>	<b>4</b>	<b>4</b>
4160	MEALS, MILEAGE, UNIFORM A	-	1,000	422	1,500
4250	OTHER CONTRACTUAL SERVICE	562,000	838,000	947,850	907,320
4430	MISC SUPPLIES	4,000	1,500	568	1,610
4460	OTHER MATERIALS & SUPPLIE	20,000	16,950	5,023	5,704
4500	EDUCATION & TRAINING	2,000	3,000	191	3,000
4720	CONFERENCE EXPENSES	1,000	6,000	848	2,000
4805	REPAIR AND MAINT OF STRUC	-	75,000	2,380	100,000
4810	REPAIR AND MAINT OF RECYC	-	-	-	-
4815	REPAIR AND MAINT OF EQUIP	16,000	50,000	-	75,000
8050	EQUIPMENT UNDER \$5,000	1,000	13,575	7,563	15,825
	<b>TOTAL MATERIAL &amp; SUPPLIES</b>	<b>606,000</b>	<b>1,005,025</b>	<b>964,845</b>	<b>1,111,959</b>
1270	GENERAL PLANT & EQUIPMENT	8,000	-	-	-
	<b>TOTAL EQUIPMENT</b>	<b>8,000</b>	<b>-</b>	<b>-</b>	<b>-</b>
	<b>TOTAL OPERATING EXPENDITURES</b>	<b>744,000</b>	<b>1,127,913</b>	<b>1,122,514</b>	<b>1,302,801</b>

**Section's Activity**

The Management and Budget section is responsible for the development and execution of the annual department's operating budget. Administers water rates and charges and coordinates water rate studies, develops water and other revenue projections and conducts various revenue, budgetary, financial and statistical studies of the department. This section also serves as the departmental coordinator for all proposed legislation each legislative session.

**BOARD OF WATER SUPPLY  
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**EXECUTIVE SUPPORT OFFICE  
5125 - MANAGEMENT AND BUDGET SECTION**

<b>OBJECT ACCOUNT</b>	<b>OBJECT DESCRIPTION</b>	<b>FY 2014 ACTUALS</b>	<b>FY 2015 BUDGET</b>	<b>FY 2015 ACTUALS &amp; FCST.</b>	<b>FY 2016 BUDGET</b>
4110	REGULAR SALARIES	-	191,472	81,771	219,504
4120	OVERTIME	-	-	28	-
4130	MISC PAYROLL COSTS	-	-	-	-
	<b>TOTAL PERSONNEL SERVICES</b>	-	<b>191,472</b>	<b>81,800</b>	<b>219,504</b>
	<b>TOTAL POSITIONS</b>	-	<b>3</b>	<b>1</b>	<b>3</b>
4265	PRINTING	-	4,000	3,500	3,500
4500	EDUCATION & TRAINING	-	-	-	-
4720	CONFERENCE EXPENSES	-	6,000	-	500
4910	MISC FEES & REGISTRATIONS	-	800	500	-
8050	EQUIPMENT UNDER \$5,000	-	4,000	-	2,500
	<b>TOTAL MATERIAL &amp; SUPPLIES</b>	-	<b>14,800</b>	<b>4,000</b>	<b>6,500</b>
1270	GENERAL PLANT & EQUIPMENT	-	-	-	-
	<b>TOTAL EQUIPMENT</b>	-	-	-	-
	<b>TOTAL OPERATING EXPENDITURES</b>	-	<b>206,272</b>	<b>85,800</b>	<b>226,004</b>

**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.

**BOARD OF WATER SUPPLY  
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**EXECUTIVE SUPPORT OFFICE  
5140 - PROCUREMENT SECTION**

OBJECT ACCOUNT	OBJECT DESCRIPTION	FY 2014 ACTUALS	FY 2015 BUDGET	FY 2015 ACTUALS & FCST.	FY 2016 BUDGET
4110	REGULAR SALARIES	208,140	253,956	273,028	265,152
4120	OVERTIME	-	15,000	-	-
4130	MISC PAYROLL COSTS	-	-	-	-
	<b>TOTAL PERSONNEL SERVICES</b>	<b>208,140</b>	<b>268,956</b>	<b>273,028</b>	<b>265,152</b>
	<b>TOTAL POSITIONS</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>
4160	MEALS, MILEAGE, UNIFORM A	70	200	-	-
4260	ADV & PUBL OF NOTICES	1,972	-	-	-
4430	MISC SUPPLIES	38	2,000	420	2,000
4460	OTHER MATERIALS & SUPPLIE	525	-	181	-
4480	POSTAGE	-	400	-	400
4500	EDUCATION & TRAINING	-	4,000	-	4,000
4720	CONFERENCE EXPENSES	-	10,000	-	-
8050	EQUIPMENT UNDER \$5,000	940	1,000	1,334	-
	<b>TOTAL MATERIAL &amp; SUPPLIES</b>	<b>3,545</b>	<b>17,600</b>	<b>1,935</b>	<b>6,400</b>
1270	GENERAL PLANT & EQUIPMENT	-	-	-	-
	<b>TOTAL EQUIPMENT</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
	<b>TOTAL OPERATING EXPENDITURES</b>	<b>211,685</b>	<b>286,556</b>	<b>274,963</b>	<b>271,552</b>

**Office'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.

**Materials, Supplies and Services**

4250 PSA campaign media ; media services; design consulting fees – Fred Ohrt Museum

4260 Advertisements for special events, etc.

4265 Printing of annual report, brochures, etc.

4460 Community meetings (facility/equipment rental); BWS Christmas (Honolulu City Lights/Kapolei); annual meeting

**BOARD OF WATER SUPPLY  
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**5130 - COMMUNICATIONS OFFICE**

<b>OBJECT ACCOUNT</b>	<b>OBJECT DESCRIPTION</b>	<b>FY 2014 ACTUALS</b>	<b>FY 2015 BUDGET</b>	<b>FY 2015 ACTUALS &amp; FCST.</b>	<b>FY 2016 BUDGET</b>
4110	REGULAR SALARIES	476,799	524,568	597,696	653,424
4120	OVERTIME	19,151	50,000	14,897	28,600
4130	MISC PAYROLL COSTS	240	3,250	19,070	33,700
	<b>TOTAL PERSONNEL SERVICES</b>	<b>496,190</b>	<b>577,818</b>	<b>631,663</b>	<b>715,724</b>
	<b>TOTAL POSITIONS</b>	<b>9</b>	<b>10</b>	<b>9</b>	<b>11</b>
4160	MEALS, MILEAGE, UNIFORM A	268	1,000	260	600
4250	OTHER CONTRACTUAL SERVICE	122,633	175,690	61,443	247,400
4255	OTHER SERVICES	-	2,000	-	-
4260	ADV & PUBL OF NOTICES	19,101	13,000	3,000	3,000
4265	PRINTING	45,500	66,500	41,500	66,050
4267	PRINTED FORMS	-	-	-	-
4270	PROFESSIONAL SERVICES	-	-	-	-
4430	MISC SUPPLIES	2,625	3,100	3,126	3,100
4460	OTHER MATERIALS & SUPPLIE	13,265	46,175	35,945	35,900
4470	PARTS AND ACCESSORIES	-	-	-	-
4480	POSTAGE	266	2,500	2,500	500
4500	EDUCATION & TRAINING	398	5,000	5,000	9,500
4720	CONFERENCE EXPENSES	115	200	432	200
4815	REPAIR AND MAINT OF EQUIP	170	750	-	750
4910	MISC FEES & REGISTRATIONS	303	360	300	400
8050	EQUIPMENT UNDER \$5,000	-	-	2,000	7,000
	<b>TOTAL MATERIAL &amp; SUPPLIES</b>	<b>204,644</b>	<b>316,275</b>	<b>155,506</b>	<b>374,400</b>
1270	GENERAL PLANT & EQUIPMENT	-	-	-	-
	<b>TOTAL EQUIPMENT</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
	<b>TOTAL OPERATING EXPENDITURES</b>	<b>700,834</b>	<b>894,093</b>	<b>787,169</b>	<b>1,090,124</b>

**Program'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.

**Materials, Supplies and Services**

4815 Chiller, chemical, and miscellaneous maintenance costs.

**BOARD OF WATER SUPPLY  
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**5201 - OCEAN COOLING**

<b>OBJECT ACCOUNT</b>	<b>OBJECT DESCRIPTION</b>	<b>FY 2014 ACTUALS</b>	<b>FY 2015 BUDGET</b>	<b>FY 2015 ACTUALS &amp; FCST.</b>	<b>FY 2016 BUDGET</b>
4110	REGULAR SALARIES	220,008	220,000	220,008	220,008
4120	OVERTIME	-	-	-	-
4130	MISC PAYROLL COSTS	-	-	-	-
	<b>TOTAL PERSONNEL SERVICES</b>	<b>220,008</b>	<b>220,000</b>	<b>220,008</b>	<b>220,008</b>
	<b>TOTAL POSITIONS</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>
4250	OTHER CONTRACTUAL SERVICE	1,058	-	-	-
4255	OTHER SERVICES	-	-	-	-
4260	ADV & PUBL OF NOTICES	-	-	-	-
4430	MISC SUPPLIES	182	500	-	800
4815	REPAIR AND MAINT OF EQUIP	245,308	428,500	226,000	427,000
8050	EQUIPMENT UNDER \$5,000	1,000	-	-	-
	<b>TOTAL MATERIAL &amp; SUPPLIES</b>	<b>247,548</b>	<b>429,000</b>	<b>226,000</b>	<b>427,800</b>
1270	GENERAL PLANT & EQUIPMENT	-	-	-	-
	<b>TOTAL EQUIPMENT</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
	<b>TOTAL OPERATING EXPENDITURES</b>	<b>467,556</b>	<b>649,000</b>	<b>446,008</b>	<b>647,808</b>

**Office'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, workers compensation administration, and review of reorganizations.

**Materials, Supplies and Services**

- 4250 Drug and alcohol testing, employee assistance program services, fitness for duty evaluations, independent medical evaluations, workplace threat assessments and mediation services.
- 4270 Reimbursement to the C & C of Honolulu – DHR for workers compensation position.
- 4275 Workers' compensation medical reimbursements to C & C of Honolulu - DHR
- 4460 Recognition/Service awards and supplies, savings bonds, and other miscellaneous award expenses.
- 4500 In-service training sponsored by HRO, out-service training for HRO staff, DSO textbooks/manuals, tuition reimbursements, HRO library reference materials, and subscriptions to professional periodicals.
- 6340 Indemnity, wage-replacement benefits and DLIR-SCF annual assessment.

**BOARD OF WATER SUPPLY  
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**5220 - HUMAN RESOURCES OFFICE (5870)**

<b>OBJECT ACCOUNT</b>	<b>OBJECT DESCRIPTION</b>	<b>FY 2014 ACTUALS</b>	<b>FY 2015 BUDGET</b>	<b>FY 2015 ACTUALS &amp; FCST.</b>	<b>FY 2016 BUDGET</b>
4110	REGULAR SALARIES	423,524	523,314	491,330	584,820
4120	OVERTIME	433	4,643	137	3,000
4130	MISC PAYROLL COSTS	-	1,920	-	1,400
	<b>TOTAL PERSONNEL SERVICES</b>	<b>423,957</b>	<b>529,877</b>	<b>491,468</b>	<b>589,220</b>
	<b>TOTAL POSITIONS</b>	<b>8</b>	<b>10</b>	<b>9</b>	<b>10</b>
4160	MEALS, MILEAGE, UNIFORM A	46	270	110	200
4250	OTHER CONTRACTUAL SERVICE	12,877	250,000	10,890	63,400
4255	OTHER SERVICES	-	-	-	-
4260	ADV & PUBL OF NOTICES	1,191	27,600	3,179	2,100
4270	PROFESSIONAL SERVICES	114,960	-	119,028	123,800
4275	MEDICAL & SURGICAL SERVIC	501,532	550,000	549,997	604,800
4430	MISC SUPPLIES	854	2,100	1,174	2,400
4460	OTHER MATERIALS & SUPPLIE	2,111	5,500	3,652	5,000
4480	POSTAGE	72	500	-	-
4500	EDUCATION & TRAINING	26,656	55,000	30,715	50,300
4720	CONFERENCE EXPENSES	75	-	-	9,500
4815	REPAIR AND MAINT OF EQUIP	626	1,800	562	1,000
4910	MISC FEES & REGISTRATIONS	-	-	3,511	400
6340	WORKERS' COMP BENEFITS	287,278	719,600	701,444	828,000
8050	EQUIPMENT UNDER \$5,000	867	-	-	-
	<b>TOTAL MATERIAL &amp; SUPPLIES</b>	<b>949,145</b>	<b>1,612,370</b>	<b>1,424,262</b>	<b>1,690,900</b>
1270	GENERAL PLANT & EQUIPMENT	-	-	-	-
	<b>TOTAL EQUIPMENT</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
	<b>TOTAL OPERATING EXPENDITURES</b>	<b>1,373,102</b>	<b>2,142,247</b>	<b>1,915,730</b>	<b>2,280,120</b>

**Division's Activity**

The Water Quality Division Insure the department's compliance with all environmental laws, rules and regulations. Oversees environmental rules (SDWA, CWA and NPDES) compliance, drinking water testing and laboratory operations, manages special water quality studies and stays abreast of emerging water quality research and regulatory issues.

Details of expenditures are shown in each section.

**BOARD OF WATER SUPPLY  
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**WATER QUALITY DIVISION - TOTAL**

<b>OBJECT ACCOUNT</b>	<b>OBJECT DESCRIPTION</b>	<b>FY 2014 ACTUALS</b>	<b>FY 2015 BUDGET</b>	<b>FY 2015 ACTUALS &amp; FCST.</b>	<b>FY 2016 BUDGET</b>
4110	REGULAR SALARIES	847,000	1,138,310	946,200	1,352,522
4120	OVERTIME	111,000	87,000	99,770	85,200
4130	MISC PAYROLL COSTS	-	2,400	-	-
	<b>TOTAL PERSONNEL SERVICES</b>	<b>958,000</b>	<b>1,227,710</b>	<b>1,045,970</b>	<b>1,437,722</b>
	<b>TOTAL POSITIONS</b>	<b>16</b>	<b>21</b>	<b>17</b>	<b>24</b>
4160	MEALS, MILEAGE, UNIFORM A	6,000	6,000	30,000	6,000
4250	OTHER CONTRACTUAL SERVICE	856,000	776,940	893,950	951,730
4260	ADV & PUBL OF NOTICES	2,000	-	-	-
4430	MISC SUPPLIES	1,000	500	13	500
4440	MOTOR VEHICLE PARTS & ACC	-	-	-	-
4460	OTHER MATERIALS & SUPPLIE	47,000	60,300	65,000	60,000
4500	EDUCATION & TRAINING	-	-	7,000	9,200
4720	CONFERENCE EXPENSES	1,000	14,200	13,944	21,300
4815	REPAIR AND MAINT OF EQUIP	1,000	6,500	8,000	9,500
4910	MISC FEES & REGISTRATIONS	-	9,000	8,000	9,400
8050	EQUIPMENT UNDER \$5,000	6,000	9,200	12,000	8,400
	<b>TOTAL MATERIAL &amp; SUPPLIES</b>	<b>920,000</b>	<b>882,640</b>	<b>1,037,907</b>	<b>1,076,030</b>
1270	GENERAL PLANT & EQUIPMENT	-	135,000	134,800	81,100
	<b>TOTAL EQUIPMENT</b>	<b>-</b>	<b>135,000</b>	<b>134,800</b>	<b>81,100</b>
	<b>TOTAL OPERATING EXPENDITURES</b>	<b>1,878,000</b>	<b>2,245,350</b>	<b>2,218,677</b>	<b>2,594,852</b>

**Section's Activity**

Insure the department's compliance with all environmental laws, rules and regulations.

**Materials, Supplies and Services**

4250 Water quality monitoring studies; EPA compliance testing and modular office rentals.

**BOARD OF WATER SUPPLY  
OPERATING BUDGET  
FISCAL YEAR 2016**

**WATER QUALITY DIVISION**

**5250 - WATER QUALITY ADMINISTRATION**

<b>OBJECT ACCOUNT</b>	<b>OBJECT DESCRIPTION</b>	<b>FY 2014 ACTUALS</b>	<b>FY 2015 BUDGET</b>	<b>FY 2015 ACTUALS &amp; FCST.</b>	<b>FY 2016 BUDGET</b>
4110	REGULAR SALARIES	145,000	171,410	254,775	400,790
4120	OVERTIME	-	-	-	-
4130	MISC PAYROLL COSTS	-	-	-	-
	<b>TOTAL PERSONNEL SERVICES</b>	<b>145,000</b>	<b>171,410</b>	<b>254,775</b>	<b>400,790</b>
	<b>TOTAL POSITIONS</b>	<b>2</b>	<b>2</b>	<b>3</b>	<b>5</b>
4160	MEALS, MILEAGE, UNIFORM A	-	-	-	-
4250	OTHER CONTRACTUAL SERVICE	2,000	100,500	84,950	185,500
4430	MISC SUPPLIES	1,000	500	13	500
4460	OTHER MATERIALS & SUPPLIE	-	300	-	300
4500	EDUCATION & TRAINING	-	-	-	200
4720	CONFERENCE EXPENSES	1,000	6,800	8,144	9,900
4815	REPAIR AND MAINT OF EQUIP	-	500	-	500
4910	MISC FEES & REGISTRATIONS	-	1,500	-	1,500
8050	EQUIPMENT UNDER \$5,000	-	-	-	-
	<b>TOTAL MATERIAL &amp; SUPPLIES</b>	<b>4,000</b>	<b>110,100</b>	<b>93,107</b>	<b>198,400</b>
1270	GENERAL PLANT & EQUIPMENT	-	-	-	-
	<b>TOTAL EQUIPMENT</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
	<b>TOTAL OPERATING EXPENDITURES</b>	<b>149,000</b>	<b>281,510</b>	<b>347,882</b>	<b>599,190</b>

**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; conducts research on analytical techniques and testing methodologies.

**Materials, Supplies and Services**

4250 water quality testing; quality assurance, safety and audit

**BOARD OF WATER SUPPLY  
OPERATING BUDGET  
FISCAL YEAR 2016**

**WATER QUALITY DIVISION**

5251 - CHEMICAL LABORATORY (5641)

OBJECT ACCOUNT	OBJECT DESCRIPTION	FY 2014 ACTUALS	FY 2015 BUDGET	FY 2015 ACTUALS & FCST.	FY 2016 BUDGET
4110	REGULAR SALARIES	376,000	528,372	426,023	555,648
4120	OVERTIME	30,000	23,490	26,318	25,200
4130	MISC PAYROLL COSTS	-	1,200	-	-
	<b>TOTAL PERSONNEL SERVICES</b>	<b>406,000</b>	<b>553,062</b>	<b>452,342</b>	<b>580,848</b>
	<b>TOTAL POSITIONS</b>	<b>8</b>	<b>11</b>	<b>8</b>	<b>11</b>
4160	MEALS, MILEAGE, UNIFORM A	-	3,600	-	3,600
4250	OTHER CONTRACTUAL SERVICE	773,000	535,100	569,000	624,830
4260	ADV & PUBL OF NOTICES	2,000	-	-	-
4460	OTHER MATERIALS & SUPPLIE	8,000	6,000	9,000	5,700
4500	EDUCATION & TRAINING	-	-	7,000	8,000
4720	CONFERENCE EXPENSES	-	1,300	-	-
4815	REPAIR AND MAINT OF EQUIP	1,000	2,000	2,000	5,000
4910	MISC FEES & REGISTRATIONS	-	2,500	3,000	2,900
8050	EQUIPMENT UNDER \$5,000	3,000	-	-	3,000
	<b>TOTAL MATERIAL &amp; SUPPLIES</b>	<b>787,000</b>	<b>550,500</b>	<b>590,000</b>	<b>653,030</b>
1270	GENERAL PLANT & EQUIPMENT	5,000	125,000	125,000	75,000
	<b>TOTAL EQUIPMENT</b>	<b>5,000</b>	<b>125,000</b>	<b>125,000</b>	<b>75,000</b>
	<b>TOTAL OPERATING EXPENDITURES</b>	<b>1,198,000</b>	<b>1,228,562</b>	<b>1,167,342</b>	<b>1,308,878</b>

**Section's Activity**

The Microbiological Laboratory performs 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; conducts research on analytical techniques and testing methodologies.

**Materials, Supplies and Services**

- 4250      QA program and audit
- 4460      Routine supplies for the microbiological laboratory

**BOARD OF WATER SUPPLY  
OPERATING BUDGET  
FISCAL YEAR 2016**

**WATER QUALITY DIVISION**

5252 - MICROBIOLOGICAL LABORATORY (5642)

OBJECT ACCOUNT	OBJECT DESCRIPTION	FY 2014 ACTUALS	FY 2015 BUDGET	FY 2015 ACTUALS & FCST.	FY 2016 BUDGET
4110	REGULAR SALARIES	326,000	438,528	265,401	396,084
4120	OVERTIME	81,000	63,510	73,452	60,000
4130	MISC PAYROLL COSTS	-	1,200	-	-
	<b>TOTAL PERSONNEL SERVICES</b>	<b>407,000</b>	<b>503,238</b>	<b>338,854</b>	<b>456,084</b>
	<b>TOTAL POSITIONS</b>	<b>6</b>	<b>8</b>	<b>6</b>	<b>8</b>
4160	MEALS, MILEAGE, UNIFORM A	6,000	2,400	30,000	2,400
4250	OTHER CONTRACTUAL SERVICE	81,000	141,340	147,000	141,400
4430	MISC SUPPLIES	-	-	-	-
4460	OTHER MATERIALS & SUPPLIE	39,000	54,000	55,000	54,000
4500	EDUCATION & TRAINING	-	-	-	1,000
4720	CONFERENCE EXPENSES	-	6,100	5,800	11,400
4815	REPAIR AND MAINT OF EQUIP	-	4,000	6,000	4,000
4910	MISC FEES & REGISTRATIONS	-	5,000	5,000	5,000
8050	EQUIPMENT UNDER \$5,000	3,000	9,200	12,000	5,400
	<b>TOTAL MATERIAL &amp; SUPPLIES</b>	<b>129,000</b>	<b>222,040</b>	<b>260,800</b>	<b>224,600</b>
1270	GENERAL PLANT & EQUIPMENT	-	10,000	9,800	6,100
	<b>TOTAL EQUIPMENT</b>	<b>-</b>	<b>10,000</b>	<b>9,800</b>	<b>6,100</b>
	<b>TOTAL OPERATING EXPENDITURES</b>	<b>536,000</b>	<b>735,278</b>	<b>609,454</b>	<b>686,784</b>

**Division's Activity**

The Customer Care Division handles contacts with customers; prepares applications and contracts for water service; designs service connections; conducts the department's billing operations which includes meter reading and pre-auditing of consumer accounts; maintains accounts receivable; investigates consumers' service problems; and collects water and sewer bills. It is responsible for maintaining and repairing meters; 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.

Details of expenditure are shown in each section.

**BOARD OF WATER SUPPLY  
OPERATING BUDGET  
FISCAL YEAR 2016**

**CUSTOMER CARE DIVISION- TOTAL**

<b>OBJECT ACCOUNT</b>	<b>OBJECT DESCRIPTION</b>	<b>FY 2014 ACTUALS</b>	<b>FY 2015 BUDGET</b>	<b>FY 2015 ACTUALS &amp; FCST.</b>	<b>FY 2016 BUDGET</b>
4110	REGULAR SALARIES	3,860,501	3,849,090	3,792,245	4,041,655
4120	OVERTIME	258,961	316,200	249,113	262,896
4130	MISC PAYROLL COSTS	56,265	100,899	45,182	100,896
	<b>TOTAL PERSONNEL SERVICES</b>	<b>4,175,727</b>	<b>4,266,189</b>	<b>4,086,540</b>	<b>4,405,447</b>
	<b>TOTAL POSITIONS</b>	<b>86</b>	<b>89</b>	<b>82</b>	<b>87</b>
4160	MEALS, MILEAGE, UNIFORM A	14,718	22,700	19,300	15,825
4220	COLLECTION FEES	267,214	660,000	437,800	468,000
4250	OTHER CONTRACTUAL SERVICE	31,904	50,800	36,200	347,300
4267	PRINTED FORMS	-	1,700	1,500	1,500
4430	MISC SUPPLIES	11,797	5,650	5,550	6,750
4460	OTHER MATERIALS & SUPPLIE	40,704	44,200	30,300	77,348
4500	EDUCATION & TRAINING	-	4,200	19,800	34,800
4720	CONFERENCE EXPENSES	-	11,700	-	9,560
4815	REPAIR AND MAINT OF EQUIP	10,255	32,400	26,700	145,009
4910	MISC FEES & REGISTRATIONS	1,320	1,600	1,600	1,900
8050	EQUIPMENT UNDER \$5,000	23,471	40,500	39,000	48,487
	<b>TOTAL MATERIAL &amp; SUPPLIES</b>	<b>401,383</b>	<b>875,450</b>	<b>617,750</b>	<b>1,156,479</b>
1270	GENERAL PLANT & EQUIPMENT	-	50,000	50,000	20,000
	<b>TOTAL EQUIPMENT</b>	<b>-</b>	<b>50,000</b>	<b>50,000</b>	<b>20,000</b>
	<b>TOTAL OPERATING EXPENDITURES</b>	<b>4,577,110</b>	<b>5,191,639</b>	<b>4,754,290</b>	<b>5,581,926</b>

**Section's Activity**

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

**Materials, Supplies and Services**

4250 Consultant services for a Quality Assurance (QA) program and conducting surveys for customer satisfaction measurements.

4500 consolidated training and travel for the Customer Care Division  
Various AWWA & HWWA workshops and conferences; ACE Annual Conference; etc.

**BOARD OF WATER SUPPLY  
OPERATING BUDGET  
FISCAL YEAR 2016**

**CUSTOMER CARE DIVISION**

5300 - Administration

<b>OBJECT ACCOUNT</b>	<b>OBJECT DESCRIPTION</b>	<b>FY 2014 ACTUALS</b>	<b>FY 2015 BUDGET</b>	<b>FY 2015 ACTUALS &amp; FCST.</b>	<b>FY 2016 BUDGET</b>
4110	REGULAR SALARIES	217,284	214,416	227,405	353,424
4120	OVERTIME	-	-	-	-
4130	MISC PAYROLL COSTS	-	17,000	-	-
	<b>TOTAL PERSONNEL SERVICES</b>	<b>217,284</b>	<b>231,416</b>	<b>227,405</b>	<b>353,424</b>
	<b>TOTAL POSITIONS</b>	<b>3</b>	<b>3</b>	<b>2</b>	<b>5</b>
4250	OTHER CONTRACTUAL SERVICE	2,961	30,000	-	260,200
4430	MISC SUPPLIES	5,779	4,000	4,000	5,000
4460	OTHER MATERIALS & SUPPLIE	13,094	12,000	5,000	6,000
4500	EDUCATION & TRAINING	-	4,200	19,800	34,800
4720	CONFERENCE EXPENSES	-	11,700	-	9,560
4815	REPAIR AND MAINT OF EQUIP	516	1,200	1,200	1,200
4910	MISC FEES & REGISTRATIONS	250	-	-	300
8050	EQUIPMENT UNDER \$5,000	1,013	1,000	1,000	1,000
	<b>TOTAL MATERIAL &amp; SUPPLIES</b>	<b>23,613</b>	<b>64,100</b>	<b>31,000</b>	<b>318,060</b>
1270	GENERAL PLANT & EQUIPMENT	-	-	-	-
	<b>TOTAL EQUIPMENT</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
	<b>TOTAL OPERATING EXPENDITURES</b>	<b>240,897</b>	<b>295,516</b>	<b>258,405</b>	<b>671,484</b>

**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.

**Materials, Supplies and Services**

4220 Service fees for automatic bill payment, credit card processing and lockbox fees.

4250 Armored car services.

4815 Remittance processing machine, cash register, mail extractor maintenance, etc.

**BOARD OF WATER SUPPLY  
OPERATING BUDGET  
FISCAL YEAR 2016**

**CUSTOMER CARE DIVISION**

Customer Service Branch

5310 - Collection and Credit Section

OBJECT ACCOUNT	OBJECT DESCRIPTION	FY 2014 ACTUALS	FY 2015 BUDGET	FY 2015 ACTUALS & FCST.	FY 2016 BUDGET
4110	REGULAR SALARIES	610,732	664,848	658,856	741,792
4120	OVERTIME	4,579	6,000	2,974	2,976
4130	MISC PAYROLL COSTS	29,010	19,200	4,896	4,896
	<b>TOTAL PERSONNEL SERVICES</b>	<b>644,321</b>	<b>690,048</b>	<b>666,726</b>	<b>749,664</b>
					-
	<b>TOTAL POSITIONS</b>	<b>15</b>	<b>16</b>	<b>15</b>	<b>17</b>
4160	MEALS, MILEAGE, UNIFORM A	466	2,100	2,000	-
4220	COLLECTION FEES	267,214	660,000	437,800	468,000
4250	OTHER CONTRACTUAL SERVICE	5,002	4,800	6,450	68,100
4267	PRINTED FORMS	-	1,500	1,500	1,500
4430	MISC SUPPLIES	3,323	500	500	500
4460	OTHER MATERIALS & SUPPLIE	1,960	1,000	500	800
4815	REPAIR AND MAINT OF EQUIP	-	2,000	2,000	2,000
8050	EQUIPMENT UNDER \$5,000	1,198	1,000	1,000	1,500
	<b>TOTAL MATERIAL &amp; SUPPLIES</b>	<b>279,163</b>	<b>672,900</b>	<b>451,750</b>	<b>542,400</b>
1270	GENERAL PLANT & EQUIPMENT	-	-	-	-
	<b>TOTAL EQUIPMENT</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
	<b>TOTAL OPERATING EXPENDITURES</b>	<b>923,484</b>	<b>1,362,948</b>	<b>1,118,476</b>	<b>1,292,064</b>

**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.

**BOARD OF WATER SUPPLY  
OPERATING BUDGET  
FISCAL YEAR 2016**

**CUSTOMER CARE DIVISION**

Engineering Services Branch

5320 - Service Engineering Section

OBJECT ACCOUNT	OBJECT DESCRIPTION	FY 2014 ACTUALS	FY 2015 BUDGET	FY 2015 ACTUALS & FCST.	FY 2016 BUDGET
4110	REGULAR SALARIES	432,915	430,969	368,485	463,891
4120	OVERTIME	658	1,800	5,489	6,000
4130	MISC PAYROLL COSTS	-	-	-	45,000
	<b>TOTAL PERSONNEL SERVICES</b>	<b>433,573</b>	<b>432,769</b>	<b>373,974</b>	<b>514,891</b>
	<b>TOTAL POSITIONS</b>	<b>7</b>	<b>7</b>	<b>6</b>	<b>8</b>
4160	MEALS, MILEAGE, UNIFORM A	54	400	300	325
4250	OTHER CONTRACTUAL SERVICE	356	-	-	1,000
4430	MISC SUPPLIES	224	-	-	-
4460	OTHER MATERIALS & SUPPLIE	-	1,200	800	1,200
4815	REPAIR AND MAINT OF EQUIP	-	1,000	1,000	-
8050	EQUIPMENT UNDER \$5,000	-	400	100	400
	<b>TOTAL MATERIAL &amp; SUPPLIES</b>	<b>634</b>	<b>3,000</b>	<b>2,200</b>	<b>2,925</b>
1270	GENERAL PLANT & EQUIPMENT	-	-	-	-
	<b>TOTAL EQUIPMENT</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
	<b>TOTAL OPERATING EXPENDITURES</b>	<b>434,207</b>	<b>435,769</b>	<b>376,174</b>	<b>517,816</b>

**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.

**Materials, Supplies and Services**

4815 Repair and overhaul the department's temporary hydrant meters.

**BOARD OF WATER SUPPLY  
OPERATING BUDGET  
FISCAL YEAR 2016**

**CUSTOMER CARE DIVISION**

Engineering Services Branch

5325 - Cross-Connection Control and Backflow Prevention Section

OBJECT ACCOUNT	OBJECT DESCRIPTION	FY 2014 ACTUALS	FY 2015 BUDGET	FY 2015 ACTUALS & FCST.	FY 2016 BUDGET
4110	REGULAR SALARIES	220,911	345,948	310,115	334,512
4120	OVERTIME	397	2,400	1,717	3,600
4130	MISC PAYROLL COSTS	-	-	-	-
	<b>TOTAL PERSONNEL SERVICES</b>	<b>221,308</b>	<b>348,348</b>	<b>311,832</b>	<b>338,112</b>
	<b>TOTAL POSITIONS</b>	<b>5</b>	<b>8</b>	<b>7</b>	<b>7</b>
4160	MEALS, MILEAGE, UNIFORM A	46	500	-	500
4250	OTHER CONTRACTUAL SERVICE	1,880	-	-	-
4430	MISC SUPPLIES	1,903	450	350	450
4460	OTHER MATERIALS & SUPPLIE	16,890	25,000	21,000	65,348
4815	REPAIR AND MAINT OF EQUIP	3,993	15,000	10,000	133,809
4910	MISC FEES & REGISTRATIONS	1,070	1,000	1,000	1,000
8050	EQUIPMENT UNDER \$5,000	476	600	-	13,487
	<b>TOTAL MATERIAL &amp; SUPPLIES</b>	<b>26,258</b>	<b>42,550</b>	<b>32,350</b>	<b>214,594</b>
1270	GENERAL PLANT & EQUIPMENT	-	-	-	-
	<b>TOTAL EQUIPMENT</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
	<b>TOTAL OPERATING EXPENDITURES</b>	<b>247,566</b>	<b>390,898</b>	<b>344,182</b>	<b>552,706</b>

**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; and handles inquiries and complaints regarding BWS operations, policies, rates and high water bills. Issues, processes and maintains records of all orders for installing, reestablishing, removing, discontinuing, maintaining, repairing, relocating and testing meters and services; maintains all service records, maintains records of check meters, automatic fire sprinklers and special water services; prepares statistical reports on services. Assists other BWS personnel in other divisions with information, statistics, correct service numbers and locations, folio numbers and status of accounts via computer terminals and services files.

**BOARD OF WATER SUPPLY  
OPERATING BUDGET  
FISCAL YEAR 2016**

**CUSTOMER CARE DIVISION**

Customer Service Branch

5330 - Customer Service and Records Section

OBJECT ACCOUNT	OBJECT DESCRIPTION	FY 2014 ACTUALS	FY 2015 BUDGET	FY 2015 ACTUALS & FCST.	FY 2016 BUDGET
4110	REGULAR SALARIES	910,325	936,989	855,737	1,046,928
4120	OVERTIME	37,157	18,000	10,320	10,320
4130	MISC PAYROLL COSTS	11,009	-	286	-
	<b>TOTAL PERSONNEL SERVICES</b>	<b>958,491</b>	<b>954,989</b>	<b>866,343</b>	<b>1,057,248</b>
	<b>TOTAL POSITIONS</b>	<b>31</b>	<b>29</b>	<b>26</b>	<b>30</b>
4160	MEALS, MILEAGE, UNIFORM A	228	1,700	-	-
4250	OTHER CONTRACTUAL SERVICE	623	-	-	-
4267	PRINTED FORMS	-	200	-	-
4430	MISC SUPPLIES	103	300	300	400
4460	OTHER MATERIALS & SUPPLIE	18	-	-	-
4815	REPAIR AND MAINT OF EQUIP	-	200	-	-
8050	EQUIPMENT UNDER \$5,000	-	2,500	2,400	2,400
	<b>TOTAL MATERIAL &amp; SUPPLIES</b>	<b>972</b>	<b>4,900</b>	<b>2,700</b>	<b>2,800</b>
1270	GENERAL PLANT & EQUIPMENT	-	50,000	50,000	-
	<b>TOTAL EQUIPMENT</b>	<b>-</b>	<b>50,000</b>	<b>50,000</b>	<b>-</b>
	<b>TOTAL OPERATING EXPENDITURES</b>	<b>959,463</b>	<b>1,009,889</b>	<b>919,043</b>	<b>1,060,048</b>

**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.

**Materials, Supplies and Services**

4250 One Call Center annual payments; use of police for traffic control

4460 Locator balls, batteries, pliers, sound bars, wrenches, etc.

**BOARD OF WATER SUPPLY  
OPERATING BUDGET  
FISCAL YEAR 2016**

**CUSTOMER CARE DIVISION**

Customer Service Branch

5350 - Investigative Section

OBJECT ACCOUNT	OBJECT DESCRIPTION	FY 2014 ACTUALS	FY 2015 BUDGET	FY 2015 ACTUALS & FCST.	FY 2016 BUDGET
4110	REGULAR SALARIES	1,468,334	1,255,920	1,371,647	1,101,108
4120	OVERTIME	216,170	288,000	228,614	240,000
4130	MISC PAYROLL COSTS	16,246	64,699	40,000	51,000
	<b>TOTAL PERSONNEL SERVICES</b>	<b>1,700,750</b>	<b>1,608,619</b>	<b>1,640,260</b>	<b>1,392,108</b>
	<b>TOTAL POSITIONS</b>	<b>25</b>	<b>26</b>	<b>26</b>	<b>20</b>
4160	MEALS, MILEAGE, UNIFORM A	13,924	18,000	17,000	15,000
4250	OTHER CONTRACTUAL SERVICE	21,082	16,000	16,000	18,000
4430	MISC SUPPLIES	465	400	400	400
4460	OTHER MATERIALS & SUPPLIE	8,742	5,000	3,000	4,000
4470	PARTS AND ACCESSORIES	-	-	-	-
4815	REPAIR AND MAINT OF EQUIP	5,746	13,000	12,500	8,000
4910	MISC FEES & REGISTRATIONS	-	600	600	600
8050	EQUIPMENT UNDER \$5,000	20,784	35,000	34,500	29,700
	<b>TOTAL MATERIAL &amp; SUPPLIES</b>	<b>70,743</b>	<b>88,000</b>	<b>84,000</b>	<b>75,700</b>
1270	GENERAL PLANT & EQUIPMENT	-	-	-	20,000
	<b>TOTAL EQUIPMENT</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>20,000</b>
	<b>TOTAL OPERATING EXPENDITURES</b>	<b>1,771,493</b>	<b>1,696,619</b>	<b>1,724,260</b>	<b>1,487,808</b>

**Division's Activity**

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

**Materials, Supplies and Services**

4210 land surveying costs; misc. appraisal costs

**BOARD OF WATER SUPPLY  
OPERATING BUDGET  
FISCAL YEAR 2016**

**5400 - LAND DIVISION**

OBJECT ACCOUNT	OBJECT DESCRIPTION	FY 2014 ACTUALS	FY 2015 BUDGET	FY 2015 ACTUALS & FCST.	FY 2016 BUDGET
4110	REGULAR SALARIES	241,348	269,532	266,570	285,936
4120	OVERTIME	14,649	15,600	16,746	16,800
4130	MISC PAYROLL COSTS	-	8,400	3,636	7,200
	<b>TOTAL PERSONNEL SERVICES</b>	<b>255,997</b>	<b>293,532</b>	<b>286,952</b>	<b>309,936</b>
	<b>TOTAL POSITIONS</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>
4160	MEALS, MILEAGE, UNIFORM A	360	500	276	480
4210	APPRAISALS, TITLE SEARCHES	24,764	420,500	363,300	420,500
4250	OTHER CONTRACTUAL SERVICE	639	100,900	530	720
4430	MISC SUPPLIES	453	500	777	600
4460	OTHER MATERIALS & SUPPLIES	157	-	1,061	-
4480	POSTAGE	138	200	92	200
4500	EDUCATION & TRAINING	-	-	-	-
4720	CONFERENCE EXPENSES	-	-	-	-
4815	REPAIR AND MAINT OF EQUIP	-	-	-	320
4910	MISC FEES & REGISTRATIONS	11,230	19,200	18,684	19,200
8050	EQUIPMENT UNDER \$5,000	-	-	-	-
	<b>TOTAL MATERIAL &amp; SUPPLIES</b>	<b>37,741</b>	<b>541,800</b>	<b>384,720</b>	<b>442,020</b>
1270	GENERAL PLANT & EQUIPMENT	-	-	-	-
	<b>TOTAL EQUIPMENT</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
	<b>TOTAL OPERATING EXPENDITURES</b>	<b>293,738</b>	<b>835,332</b>	<b>671,672</b>	<b>751,956</b>

**Division'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; and administers the water conservation and recycled water programs.

Details of expenditures are shown in each section.

**BOARD OF WATER SUPPLY  
OPERATING BUDGET  
FISCAL YEAR 2016**

**WATER RESOURCES DIVISION - TOTAL**

OBJECT ACCOUNT	OBJECT DESCRIPTION	FY 2014 ACTUALS	FY 2015 BUDGET	FY 2015 ACTUALS & FCST.	FY 2016 BUDGET
4110	REGULAR SALARIES	1,746,000	2,266,348	1,813,009	2,227,769
4120	OVERTIME	57,000	62,065	42,921	60,829
4130	MISC PAYROLL COSTS	-	73,502	13,552	62,297
	<b>TOTAL PERSONNEL SERVICES</b>	<b>1,803,000</b>	<b>2,401,915</b>	<b>1,869,482</b>	<b>2,350,895</b>
	<b>TOTAL POSITIONS</b>	<b>30</b>	<b>38</b>	<b>28</b>	<b>36</b>
4160	MEALS, MILEAGE, UNIFORM A	1,000	3,660	636	600
4250	OTHER CONTRACTUAL SERVICE	551,000	667,970	560,506	1,285,580
4255	OTHER SERVICES	-	125,540	125,540	237,700
4265	PRINTING	-	500	300	500
4270	PROFESSIONAL SERVICES	3,000	-	-	150,000
4430	MISC SUPPLIES	4,000	6,000	8,621	10,000
4460	OTHER MATERIALS & SUPPLIE	9,000	12,500	9,592	21,500
4480	POSTAGE	-	480	104	480
4500	EDUCATION & TRAINING	3,000	11,529	8,608	16,169
4680	TELEPHONE	-	12,000	12,275	12,660
4720	CONFERENCE EXPENSES	9,000	20,260	19,034	35,350
4810	REPAIR AND MAINT OF RECYC	582,000	2,832,700	795,256	620,990
4815	REPAIR AND MAINT OF EQUIP	2,000	13,030	8,793	14,900
4910	MISC FEES & REGISTRATIONS	7,000	300	300	1,000
4920	NON-POTABLE WATER TREATME	4,688,000	5,507,800	5,098,592	5,507,800
4940	USGS COOPERATIVE INVESTIG	81,000	482,101	482,101	160,000
8050	EQUIPMENT UNDER \$5,000	21,000	20,375	19,642	23,000
	<b>TOTAL MATERIAL &amp; SUPPLIES</b>	<b>5,961,000</b>	<b>9,716,745</b>	<b>7,149,900</b>	<b>8,098,229</b>
1270	GENERAL PLANT & EQUIPMENT	119,000	46,140	45,000	40,000
	<b>TOTAL EQUIPMENT</b>	<b>119,000</b>	<b>46,140</b>	<b>45,000</b>	<b>40,000</b>
	<b>TOTAL OPERATING EXPENDITURES</b>	<b>7,883,000</b>	<b>12,164,800</b>	<b>9,064,382</b>	<b>10,489,124</b>

**Section's Activity**

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

**Materials, Supplies and Services**

4250 Provisions for the Oahu Water Management Plan for Central Oahu.

4430 Office supplies; materials for charts, graphs and visual aids.

**BOARD OF WATER SUPPLY  
OPERATING BUDGET  
FISCAL YEAR 2016**

**WATER RESOURCES DIVISION**

5450 - Administration

OBJECT ACCOUNT	OBJECT DESCRIPTION	FY 2014 ACTUALS	FY 2015 BUDGET	FY 2015 ACTUALS & FCST.	FY 2016 BUDGET
4110	REGULAR SALARIES	360,000	392,728	345,077	353,398
4120	OVERTIME	-	-	741	-
4130	MISC PAYROLL COSTS	-	1,956	8	-
	<b>TOTAL PERSONNEL SERVICES</b>	<b>360,000</b>	<b>394,684</b>	<b>345,826</b>	<b>353,398</b>
	<b>TOTAL POSITIONS</b>	<b>6</b>	<b>6</b>	<b>5</b>	<b>5</b>
4160	MEALS, MILEAGE, UNIFORM A	-	-	28	-
4250	OTHER CONTRACTUAL SERVICE	332,000	101,440	266	500,000
4430	MISC SUPPLIES	6,000	6,000	8,621	10,000
4460	OTHER MATERIALS & SUPPLIE	-	-	39	-
4680	TELEPHONE	-	-	275	660
4720	CONFERENCE EXPENSES	3,000	1,870	5,560	1,300
4815	REPAIR AND MAINT OF EQUIP	-	500	383	500
8050	EQUIPMENT UNDER \$5,000	1,000	-	-	-
	<b>TOTAL MATERIAL &amp; SUPPLIES</b>	<b>342,000</b>	<b>109,810</b>	<b>15,172</b>	<b>512,460</b>
1270	GENERAL PLANT & EQUIPMENT	-	-	-	-
	<b>TOTAL EQUIPMENT</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
	<b>TOTAL OPERATING EXPENDITURES</b>	<b>702,000</b>	<b>504,494</b>	<b>360,998</b>	<b>865,858</b>

**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.

**Materials, Supplies and Services**

4250 Mapping services, hydraulic water modeling support, flow meter maintenance, etc.

4460 Supplies for field testing, tools for installing portable flow meters and pressure recorders, etc.

**BOARD OF WATER SUPPLY  
OPERATING BUDGET  
FISCAL YEAR 2016**

**WATER RESOURCES DIVISION**

5470 - Water System Planning

OBJECT ACCOUNT	OBJECT DESCRIPTION	FY 2014 ACTUALS	FY 2015 BUDGET	FY 2015 ACTUALS & FCST.	FY 2016 BUDGET
4110	REGULAR SALARIES	219,000	311,512	237,087	336,932
4120	OVERTIME	3,000	12,108	1,855	7,944
4130	MISC PAYROLL COSTS	-	22,728	13,544	20,316
	<b>TOTAL PERSONNEL SERVICES</b>	<b>222,000</b>	<b>346,348</b>	<b>252,487</b>	<b>365,192</b>
	<b>TOTAL POSITIONS</b>	<b>5</b>	<b>5</b>	<b>4</b>	<b>5</b>
4160	MEALS, MILEAGE, UNIFORM A	-	-	32	-
4250	OTHER CONTRACTUAL SERVICE	-	4,230	240	480
4460	OTHER MATERIALS & SUPPLIE	-	1,500	1,500	1,500
4480	POSTAGE	-	480	104	480
4500	EDUCATION & TRAINING	2,000	4,000	4,279	8,190
4720	CONFERENCE EXPENSES	3,000	3,740	3,293	9,490
4815	REPAIR AND MAINT OF EQUIP	1,000	6,530	2,410	7,400
8050	EQUIPMENT UNDER \$5,000	4,000	2,475	2,442	-
	<b>TOTAL MATERIAL &amp; SUPPLIES</b>	<b>10,000</b>	<b>22,955</b>	<b>14,300</b>	<b>27,540</b>
1270	GENERAL PLANT & EQUIPMENT	-	6,140	5,000	-
	<b>TOTAL EQUIPMENT</b>	<b>-</b>	<b>6,140</b>	<b>5,000</b>	<b>-</b>
	<b>TOTAL OPERATING EXPENDITURES</b>	<b>232,000</b>	<b>375,443</b>	<b>271,787</b>	<b>392,732</b>

**Program's Activity**

To institute sustainable water use behavior and practices across the island of Oahu. To develop, design, implement and measure the effectiveness of corresponding programs that promote sustainability and to demonstrate through action, the Department's core mission of "Water for Life".

**Materials, Supplies and Services**

4250 Conservation Implementation Plan

4270 QUINCI – Water Conservation Program Plan

**BOARD OF WATER SUPPLY  
OPERATING BUDGET  
FISCAL YEAR 2016**

**WATER RESOURCES DIVISION**

5472 - Conservation (5150)

OBJECT ACCOUNT	OBJECT DESCRIPTION	FY 2014 ACTUALS	FY 2015 BUDGET	FY 2015 ACTUALS & FCST.	FY 2016 BUDGET
4110	REGULAR SALARIES	269,000	429,796	267,953	455,368
4120	OVERTIME	4,000	8,838	3,673	9,888
4130	MISC PAYROLL COSTS	-	15,758	-	22,788
	<b>TOTAL PERSONNEL SERVICES</b>	<b>273,000</b>	<b>454,392</b>	<b>271,626</b>	<b>488,044</b>
	<b>TOTAL POSITIONS</b>	<b>5</b>	<b>7</b>	<b>5</b>	<b>8</b>
4160	MEALS, MILEAGE, UNIFORM A	-	2,100	28	-
4250	OTHER CONTRACTUAL SERVICE	-	150,000	150,000	200,000
4255	OTHER SERVICES	-	-	-	20,000
4270	PROFESSIONAL SERVICES	3,000	-	-	150,000
4430	MISC SUPPLIES	(3,000)	-	-	-
4460	OTHER MATERIALS & SUPPLIE	-	4,200	2,719	14,200
4500	EDUCATION & TRAINING	-	2,000	-	2,000
4720	CONFERENCE EXPENSES	1,000	7,040	4,601	11,850
8050	EQUIPMENT UNDER \$5,000	9,000	2,500	2,500	-
	<b>TOTAL MATERIAL &amp; SUPPLIES</b>	<b>10,000</b>	<b>167,840</b>	<b>159,848</b>	<b>398,050</b>
1270	GENERAL PLANT & EQUIPMENT	75,000	-	-	-
	<b>TOTAL EQUIPMENT</b>	<b>75,000</b>	<b>-</b>	<b>-</b>	<b>-</b>
	<b>TOTAL OPERATING EXPENDITURES</b>	<b>358,000</b>	<b>622,232</b>	<b>431,474</b>	<b>886,094</b>

**Program'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.

**Materials, Supplies and Services**

4250 Recycled water sampling and testing.

4810 Services Agreement – maintenance & repair component, remote site repair & maintenance service fee, RO skid membrane replacement, high frequency ballasts replacement, and CMF membrane valves & actuators.

4920 Service fee components and land license fees.

**BOARD OF WATER SUPPLY  
OPERATING BUDGET  
FISCAL YEAR 2016**

**WATER RESOURCES DIVISION**

5475 - Recycled Water (5255)

<b>OBJECT ACCOUNT</b>	<b>OBJECT DESCRIPTION</b>	<b>FY 2014 ACTUALS</b>	<b>FY 2015 BUDGET</b>	<b>FY 2015 ACTUALS &amp; FCST.</b>	<b>FY 2016 BUDGET</b>
4110	REGULAR SALARIES	-	-	-	-
4120	OVERTIME	-	-	-	-
4130	MISC PAYROLL COSTS	-	-	-	-
	<b>TOTAL PERSONNEL SERVICES</b>	-	-	-	-
	<b>TOTAL POSITIONS</b>	-	-	-	-
4160	MEALS, MILEAGE, UNIFORM A	-	-	-	-
4250	OTHER CONTRACTUAL SERVICE	123,000	111,100	110,000	112,800
4265	PRINTING	-	200	-	200
4460	OTHER MATERIALS & SUPPLIE	1,000	1,400	39	1,400
4720	CONFERENCE EXPENSES	-	-	-	-
4810	REPAIR AND MAINT OF RECYC	582,000	2,832,700	795,256	620,990
4920	NON-POTABLE WATER TREATME	4,688,000	5,507,800	5,098,592	5,507,800
4940	USGS COOPERATIVE INVESTIG	-	68,000	68,000	-
8050	EQUIPMENT UNDER \$5,000	-	400	200	400
	<b>TOTAL MATERIAL &amp; SUPPLIES</b>	<b>5,394,000</b>	<b>8,521,600</b>	<b>6,072,087</b>	<b>6,243,590</b>
1270	GENERAL PLANT & EQUIPMENT	-	-	-	-
	<b>TOTAL EQUIPMENT</b>	-	-	-	-
	<b>TOTAL OPERATING EXPENDITURES</b>	<b>5,394,000</b>	<b>8,521,600</b>	<b>6,072,087</b>	<b>6,243,590</b>

**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.

**Materials, Supplies and Services**

- 4250 GIA funding for fencing project (Makaha); Climate Change Vulnerability Analysis (WRF); Transpiration Study; climate Model (UH-Manoa)
- 4255 various Watershed Partnerships( invasive species); MOA with OISC; MOA with DOFAW
- 4680 Cell phone services for remote data logging stations.
- 4940 Continuation of ongoing study of stream flows, rainfall measurements, groundwater monitoring with the United States Geological Survey.

**BOARD OF WATER SUPPLY  
OPERATING BUDGET  
FISCAL YEAR 2016**

**WATER RESOURCES DIVISION**

5480 - Hydrology/Geology

OBJECT ACCOUNT	OBJECT DESCRIPTION	FY 2014 ACTUALS	FY 2015 BUDGET	FY 2015 ACTUALS & FCST.	FY 2016 BUDGET
4110	REGULAR SALARIES	433,000	452,712	445,260	451,716
4120	OVERTIME	21,000	7,098	25,471	25,717
4130	MISC PAYROLL COSTS	-	2,027	-	2,014
	<b>TOTAL PERSONNEL SERVICES</b>	<b>454,000</b>	<b>461,837</b>	<b>470,731</b>	<b>479,447</b>
	<b>TOTAL POSITIONS</b>	<b>7</b>	<b>8</b>	<b>7</b>	<b>8</b>
4160	MEALS, MILEAGE, UNIFORM A	1,000	300	300	300
4250	OTHER CONTRACTUAL SERVICE	96,000	300,000	300,000	471,800
4255	OTHER SERVICES	-	125,540	125,540	217,700
4265	PRINTING	-	300	300	300
4460	OTHER MATERIALS & SUPPLIE	6,000	3,050	3,050	3,750
4500	EDUCATION & TRAINING	1,000	2,729	2,729	2,829
4680	TELEPHONE	-	12,000	12,000	12,000
4720	CONFERENCE EXPENSES	1,000	2,200	2,200	8,410
4815	REPAIR AND MAINT OF EQUIP	1,000	6,000	6,000	7,000
4910	MISC FEES & REGISTRATIONS	7,000	300	300	1,000
4940	USGS COOPERATIVE INVESTIG	81,000	414,101	414,101	160,000
8050	EQUIPMENT UNDER \$5,000	6,000	12,500	12,500	20,000
	<b>TOTAL MATERIAL &amp; SUPPLIES</b>	<b>200,000</b>	<b>879,020</b>	<b>879,020</b>	<b>905,089</b>
1270	GENERAL PLANT & EQUIPMENT	44,000	40,000	40,000	40,000
	<b>TOTAL EQUIPMENT</b>	<b>44,000</b>	<b>40,000</b>	<b>40,000</b>	<b>40,000</b>
	<b>TOTAL OPERATING EXPENDITURES</b>	<b>698,000</b>	<b>1,380,857</b>	<b>1,389,751</b>	<b>1,424,536</b>

**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.

**BOARD OF WATER SUPPLY  
OPERATING BUDGET  
FISCAL YEAR 2016**

**WATER RESOURCES DIVISION**  
5490 - Project Review (5370)

<b>OBJECT ACCOUNT</b>	<b>OBJECT DESCRIPTION</b>	<b>FY 2014 ACTUALS</b>	<b>FY 2015 BUDGET</b>	<b>FY 2015 ACTUALS &amp; FCST.</b>	<b>FY 2016 BUDGET</b>
4110	REGULAR SALARIES	113,000	246,424	136,644	242,943
4120	OVERTIME	4,000	8,400	332	4,800
4130	MISC PAYROLL COSTS	-	17,173	-	3,097
	<b>TOTAL PERSONNEL SERVICES</b>	<b>117,000</b>	<b>271,997</b>	<b>136,976</b>	<b>250,840</b>
	<b>TOTAL POSITIONS</b>	<b>2</b>	<b>4</b>	<b>2</b>	<b>4</b>
4160	MEALS, MILEAGE, UNIFORM A	-	300	-	-
4460	OTHER MATERIALS & SUPPLIE	-	400	30	-
4500	EDUCATION & TRAINING	-	1,600	400	750
4720	CONFERENCE EXPENSES	-	1,670	1,261	1,700
8050	EQUIPMENT UNDER \$5,000	1,000	2,500	2,000	1,500
	<b>TOTAL MATERIAL &amp; SUPPLIES</b>	<b>1,000</b>	<b>6,470</b>	<b>3,691</b>	<b>3,950</b>
1270	GENERAL PLANT & EQUIPMENT	-	-	-	-
	<b>TOTAL EQUIPMENT</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
	<b>TOTAL OPERATING EXPENDITURES</b>	<b>118,000</b>	<b>278,467</b>	<b>140,667</b>	<b>254,790</b>

**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; conducts watershed management partnership and provides graphic art services to the department.

**Materials, Supplies and Services**

4250 Printing services for Capital Improvement projects

**BOARD OF WATER SUPPLY  
OPERATING BUDGET  
FISCAL YEAR 2016**

**WATER RESOURCES DIVISION**  
5495 - Long Range Planning

<b>OBJECT ACCOUNT</b>	<b>OBJECT DESCRIPTION</b>	<b>FY 2014 ACTUALS</b>	<b>FY 2015 BUDGET</b>	<b>FY 2015 ACTUALS &amp; FCST.</b>	<b>FY 2016 BUDGET</b>
4110	REGULAR SALARIES	352,000	433,176	380,987	387,412
4120	OVERTIME	25,000	25,621	10,848	12,480
4130	MISC PAYROLL COSTS	-	13,860	-	14,082
	<b>TOTAL PERSONNEL SERVICES</b>	<b>377,000</b>	<b>472,657</b>	<b>391,835</b>	<b>413,974</b>
	<b>TOTAL POSITIONS</b>	<b>5</b>	<b>8</b>	<b>6</b>	<b>7</b>
4160	MEALS, MILEAGE, UNIFORM A	-	960	248	300
4250	OTHER CONTRACTUAL SERVICE	-	1,200	-	500
4430	MISC SUPPLIES	1,000	-	-	-
4460	OTHER MATERIALS & SUPPLIE	2,000	1,950	2,215	650
4500	EDUCATION & TRAINING	-	1,200	1,200	2,400
4720	CONFERENCE EXPENSES	1,000	3,740	2,119	2,600
8050	EQUIPMENT UNDER \$5,000	-	-	-	1,100
	<b>TOTAL MATERIAL &amp; SUPPLIES</b>	<b>4,000</b>	<b>9,050</b>	<b>5,782</b>	<b>7,550</b>
1270	GENERAL PLANT & EQUIPMENT	-	-	-	-
	<b>TOTAL EQUIPMENT</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
	<b>TOTAL OPERATING EXPENDITURES</b>	<b>381,000</b>	<b>481,707</b>	<b>397,617</b>	<b>421,524</b>

**Division's Activity**

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

Details of expenditures are shown in each section.

**BOARD OF WATER SUPPLY  
OPERATING BUDGET  
FISCAL YEAR 2016**

**FIELD OPERATIONS - TOTAL**

<b>OBJECT ACCOUNT</b>	<b>OBJECT DESCRIPTION</b>	<b>FY 2014 ACTUALS</b>	<b>FY 2015 BUDGET</b>	<b>FY 2015 ACTUALS &amp; ECST</b>	<b>FY 2016 BUDGET</b>
4110	REGULAR SALARIES	9,179,720	12,844,273	11,520,911	13,858,006
4120	OVERTIME	1,157,515	1,523,400	1,502,245	1,617,600
4130	MISC PAYROLL COSTS	429,295	576,400	474,409	895,000
	<b>TOTAL PERSONNEL SERVICES</b>	<b>10,766,530</b>	<b>14,944,073</b>	<b>13,497,565</b>	<b>16,370,606</b>
	<b>TOTAL POSITIONS</b>	<b>210</b>	<b>256</b>	<b>228</b>	<b>267</b>
1110	MATERIALS & SUPPLIES	1,080,000	2,000,000	2,000,000	2,000,000
1120	METERS	957,000	1,200,000	1,200,000	2,400,000
1125	AMR MATERIALS & SUPPLIES	471,000	1,320,000	1,320,000	2,400,000
4160	MEALS, MILEAGE, UNIFORM A	85,075	113,000	111,260	115,200
4230	EMERGENCY & CONTR ROAD RE	2,183,000	3,500,000	3,499,948	3,500,000
4250	OTHER CONTRACTUAL SERVICE	403,319	503,700	471,562	917,100
4267	PRINTED FORMS	-	600	-	-
4280	REFUSE COLLECTION & DISPO	560,445	400,000	400,883	550,000
4420	HIGHWAY MATERIALS	15,000	48,000	46,000	36,000
4430	MISC SUPPLIES	10,206	12,000	13,274	9,600
4460	OTHER MATERIALS & SUPPLIE	243,962	300,000	297,553	320,400
4470	PARTS AND ACCESSORIES	-	4,200	436	2,400
4500	EDUCATION & TRAINING	12,556	12,000	12,865	30,000
4720	CONFERENCE EXPENSES	4,113	24,000	22,493	12,000
4805	REPAIR AND MAINT OF STRUC	14,996	60,000	47,228	67,000
4815	REPAIR AND MAINT OF EQUIP	11,472	33,600	18,289	31,200
4910	MISC FEES & REGISTRATIONS	149	-	-	-
4920	NON-POTABLE WATER TREATME	-	60,000	45,000	60,000
4923	STORE MATERIALS & EXP DIS	529,883	500,000	500,000	500,000
8050	EQUIPMENT UNDER \$5,000	66,743	134,300	133,519	119,100
	<b>TOTAL MATERIAL &amp; SUPPLIES</b>	<b>6,648,919</b>	<b>10,225,400</b>	<b>10,140,310</b>	<b>13,070,000</b>
1270	GENERAL PLANT & EQUIPMENT	-	249,400	40,000	-
	<b>TOTAL EQUIPMENT</b>	<b>-</b>	<b>249,400</b>	<b>40,000</b>	<b>-</b>
	<b>TOTAL OPERATING EXPENDITURES</b>	<b>17,415,449</b>	<b>25,418,873</b>	<b>23,677,875</b>	<b>29,440,606</b>

**Section's Activity**

Administers the affairs of the Field Operations Division.

**Materials, Supplies and Services**

4250 special duty police for traffic control

4720 AWWA Annual Conference expenses.

**BOARD OF WATER SUPPLY  
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**FIELD OPERATIONS**  
5500 - Administration

OBJECT ACCOUNT	OBJECT DESCRIPTION	FY 2014 ACTUALS	FY 2015 BUDGET	FY 2015 ACTUALS & FCST.	FY 2016 BUDGET
4110	REGULAR SALARIES	475,876	418,081	549,793	726,573
4120	OVERTIME	1,410	4,800	3,957	4,800
4130	MISC PAYROLL COSTS	-	40,000	800	87,000
	<b>TOTAL PERSONNEL SERVICES</b>	<b>477,286</b>	<b>462,881</b>	<b>554,550</b>	<b>818,373</b>
	<b>TOTAL POSITIONS</b>	<b>7</b>	<b>6</b>	<b>5</b>	<b>11</b>
4160	MEALS, MILEAGE, UNIFORM A	10	1,800	33	-
4250	OTHER CONTRACTUAL SERVICE	41,353	148,000	125,053	160,000
4430	MISC SUPPLIES	466	-	-	-
4460	OTHER MATERIALS & SUPPLIE	6	6,000	4,500	6,000
4500	EDUCATION & TRAINING	10,739	12,000	12,865	30,000
4720	CONFERENCE EXPENSES	4,113	24,000	21,444	12,000
4815	REPAIR AND MAINT OF EQUIP	-	-	-	-
4910	MISC FEES & REGISTRATIONS	80	-	-	-
8050	EQUIPMENT UNDER \$5,000	-	28,800	28,014	-
	<b>TOTAL MATERIAL &amp; SUPPLIES</b>	<b>56,767</b>	<b>220,600</b>	<b>191,909</b>	<b>208,000</b>
1270	GENERAL PLANT & EQUIPMENT	-	149,000	-	-
	<b>TOTAL EQUIPMENT</b>	<b>-</b>	<b>149,000</b>	<b>-</b>	<b>-</b>
	<b>TOTAL OPERATING EXPENDITURES</b>	<b>534,053</b>	<b>832,481</b>	<b>746,459</b>	<b>1,026,373</b>

**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 development, landscaping and maintenance of grounds; provides clerical support to sections of the division.

**Materials, Supplies and Services**

4230 contracted road repairs due to main breaks for City and State roads; emergency repairs

**BOARD OF WATER SUPPLY  
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**FIELD OPERATIONS**

Administrative Support Branch

5510 - Distribution Branch Administration

<b>OBJECT ACCOUNT</b>	<b>OBJECT DESCRIPTION</b>	<b>FY 2014 ACTUALS</b>	<b>FY 2015 BUDGET</b>	<b>FY 2015 ACTUALS &amp; FCST.</b>	<b>FY 2016 BUDGET</b>
4110	REGULAR SALARIES	109,000	231,534	254,211	295,129
4120	OVERTIME	730	1,200	1,449	2,400
4130	MISC PAYROLL COSTS	-	-	-	-
	<b>TOTAL PERSONNEL SERVICES</b>	<b>109,730</b>	<b>232,734</b>	<b>255,660</b>	<b>297,529</b>
	<b>TOTAL POSITIONS</b>	<b>3</b>	<b>7</b>	<b>6</b>	<b>7</b>
4160	MEALS, MILEAGE, UNIFORM A	1,000	-	18	-
4230	EMERGENCY & CONTR ROAD RE	2,183,000	3,500,000	3,499,948	3,500,000
4250	OTHER CONTRACTUAL SERVICE	40,000	-	2,220	2,400
4430	MISC SUPPLIES	9,000	10,000	10,230	9,600
4500	EDUCATION & TRAINING	1,000	-	-	-
4815	REPAIR AND MAINT OF EQUIP	-	-	-	-
8050	EQUIPMENT UNDER \$5,000	-	-	-	-
	<b>TOTAL MATERIAL &amp; SUPPLIES</b>	<b>2,234,000</b>	<b>3,510,000</b>	<b>3,512,416</b>	<b>3,512,000</b>
1270	GENERAL PLANT & EQUIPMENT	-	-	-	-
	<b>TOTAL EQUIPMENT</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
	<b>TOTAL OPERATING EXPENDITURES</b>	<b>2,343,730</b>	<b>3,742,734</b>	<b>3,768,076</b>	<b>3,809,529</b>

**Section's Activity**

The Maintenance Section installs, operates and maintains valves, hydrants and appurtenances; disinfects mains; conducts welding, tapping and pipe cutting operations; operates and maintains the metropolitan gravity system, corporation yards, grounds and landscaped areas; conducts inspections of the distribution system and facilities.

**Materials, Supplies and Services**

4250. tree trimming

4280 disposal of refuse and landfill fees.

**BOARD OF WATER SUPPLY  
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**FIELD OPERATIONS**

Distribution Branch

Maintenance Section

5520 - Administration Unit ; 5521 - Hydrants & Valves Unit ; & 5522 - Grounds & Landscaping Unit

OBJECT ACCOUNT	OBJECT DESCRIPTION	FY 2014 ACTUALS	FY 2015 BUDGET	FY 2015 ACTUALS & FCST.	FY 2016 BUDGET
4110	REGULAR SALARIES	1,839,248	2,612,688	2,390,005	2,713,080
4120	OVERTIME	133,341	199,800	229,189	228,000
4130	MISC PAYROLL COSTS	96,587	116,700	87,170	148,400
	<b>TOTAL PERSONNEL SERVICES</b>	<b>2,069,176</b>	<b>2,929,188</b>	<b>2,706,364</b>	<b>3,089,480</b>
	<b>TOTAL POSITIONS</b>	<b>44</b>	<b>56</b>	<b>51</b>	<b>56</b>
4160	MEALS, MILEAGE, UNIFORM A	12,546	15,600	17,270	16,800
4250	OTHER CONTRACTUAL SERVICE	119,330	240,000	247,147	600,000
4280	REFUSE COLLECTION & DISPO	560,445	400,000	400,883	550,000
4460	OTHER MATERIALS & SUPPLIE	64,030	90,000	91,396	108,000
4470	PARTS AND ACCESSORIES	-	3,000	436	-
4500	EDUCATION & TRAINING	100	-	-	-
4805	REPAIR AND MAINT OF STRUC	2,381	-	-	-
4815	REPAIR AND MAINT OF EQUIP	9,546	9,600	9,069	9,600
8050	EQUIPMENT UNDER \$5,000	15,446	30,000	30,005	34,200
	<b>TOTAL MATERIAL &amp; SUPPLIES</b>	<b>787,707</b>	<b>788,200</b>	<b>796,489</b>	<b>1,318,600</b>
1270	GENERAL PLANT & EQUIPMENT	-	46,400	40,000	-
	<b>TOTAL EQUIPMENT</b>	<b>-</b>	<b>46,400</b>	<b>40,000</b>	<b>-</b>
	<b>TOTAL OPERATING EXPENDITURES</b>	<b>2,856,883</b>	<b>3,763,788</b>	<b>3,542,853</b>	<b>4,408,080</b>

**Section's Activity**

The Construction Section conducts all major emergency repair operations involving water mains, reservoirs and appurtenances and performs emergency light repairs in the city areas; constructs pipelines and appurtenances and miscellaneous projects connected with force account; performs merchandising and jobbing projects; conducts all carpentry, masonry and heavy equipment operations.

**Materials, Supplies and Services**

- 4250 Heavy and semi-heavy construction equipment rentals; off-duty police for traffic control; etc.
- 4460 Small tools, parts and accessories for sump pumps, pavement breakers and heavy equipment; safety equipment, cable, rope, etc.
- 4815 Repairs to welding, soldering, pneumatic and gas-powered equipment, etc.

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**FIELD OPERATIONS**

Distribution Branch

5530 - Construction Section

<b>OBJECT ACCOUNT</b>	<b>OBJECT DESCRIPTION</b>	<b>FY 2014 ACTUALS</b>	<b>FY 2015 BUDGET</b>	<b>FY 2015 ACTUALS &amp; FCST.</b>	<b>FY 2016 BUDGET</b>
4110	REGULAR SALARIES	1,624,000	2,192,316	1,680,100	2,265,900
4120	OVERTIME	398,000	600,000	528,575	600,000
4130	MISC PAYROLL COSTS	72,000	91,500	92,897	173,000
	<b>TOTAL PERSONNEL SERVICES</b>	<b>2,094,000</b>	<b>2,883,816</b>	<b>2,301,572</b>	<b>3,038,900</b>
	<b>TOTAL POSITIONS</b>	<b>37</b>	<b>37</b>	<b>30</b>	<b>38</b>
4160	MEALS, MILEAGE, UNIFORM A	23,000	36,000	33,000	36,000
4250	OTHER CONTRACTUAL SERVICE	59,000	47,000	40,000	48,000
4460	OTHER MATERIALS & SUPPLIE	30,000	36,000	34,000	36,000
4720	CONFERENCE EXPENSES	-	-	-	-
4805	REPAIR AND MAINT OF STRUC	4,000	36,000	29,000	36,000
4815	REPAIR AND MAINT OF EQUIP	-	-	-	-
8050	EQUIPMENT UNDER \$5,000	8,000	11,600	12,000	14,700
	<b>TOTAL MATERIAL &amp; SUPPLIES</b>	<b>124,000</b>	<b>166,600</b>	<b>148,000</b>	<b>170,700</b>
1270	GENERAL PLANT & EQUIPMENT	-	10,000	-	-
	<b>TOTAL EQUIPMENT</b>	<b>-</b>	<b>10,000</b>	<b>-</b>	<b>-</b>
	<b>TOTAL OPERATING EXPENDITURES</b>	<b>2,218,000</b>	<b>3,060,416</b>	<b>2,449,572</b>	<b>3,209,600</b>

**Section's Activity**

The Suburban Field Services Branch, in the respective suburban areas, operates the distribution systems, including the installation, maintenance and repairs of mains, fire hydrants, valves and other appurtenances; operates and maintains the corporation yards; operates a radio-telephone communications center in each of the three suburban headquarters--Central, Leeward and Waianae base yards.

**Materials, Supplies and Services**

4250 Equipment rentals; welding services; machine shop services

4460 Botanicals, small tools, miscellaneous supplies and materials.

4815 Repairs to lawn mowers, weed-eaters, welding, pneumatic and gas-powered equipment, etc.

**BOARD OF WATER SUPPLY  
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**FIELD OPERATIONS**

Suburban Field Services Branch

5540 - Admin. Section ; 5541 - Manana Section; 5542 - Wahiawa Section; & 5543 - Waianae Section

OBJECT ACCOUNT	OBJECT DESCRIPTION	FY 2014 ACTUALS	FY 2015 BUDGET	FY 2015 ACTUALS & FCST.	FY 2016 BUDGET
4110	REGULAR SALARIES	2,613,761	3,313,986	3,058,734	3,506,148
4120	OVERTIME	425,410	480,000	521,089	553,200
4130	MISC PAYROLL COSTS	124,458	157,500	129,407	218,000
	<b>TOTAL PERSONNEL SERVICES</b>	<b>3,163,629</b>	<b>3,951,486</b>	<b>3,709,231</b>	<b>4,277,348</b>
	<b>TOTAL POSITIONS</b>	<b>63</b>	<b>65</b>	<b>60</b>	<b>66</b>
4160	MEALS, MILEAGE, UNIFORM A	28,742	35,000	36,073	38,400
4250	OTHER CONTRACTUAL SERVICE	113,730	43,000	34,249	43,000
4430	MISC SUPPLIES	733	2,000	21	-
4460	OTHER MATERIALS & SUPPLIE	42,739	54,000	48,770	54,000
4805	REPAIR AND MAINT OF STRUC	2,864	-	-	7,000
4815	REPAIR AND MAINT OF EQUIP	1,768	7,200	5,400	6,000
4910	MISC FEES & REGISTRATIONS	69	-	-	-
4923	STORE MATERIALS & EXP DIS	-	-	-	-
8050	EQUIPMENT UNDER \$5,000	28,836	44,700	44,622	56,500
	<b>TOTAL MATERIAL &amp; SUPPLIES</b>	<b>220,198</b>	<b>185,900</b>	<b>169,653</b>	<b>204,900</b>
1270	GENERAL PLANT & EQUIPMENT	-	10,000	-	-
	<b>TOTAL EQUIPMENT</b>	<b>-</b>	<b>10,000</b>	<b>-</b>	<b>-</b>
	<b>TOTAL OPERATING EXPENDITURES</b>	<b>3,383,827</b>	<b>4,147,386</b>	<b>3,878,884</b>	<b>4,482,248</b>

**Section's Activity**

The Distribution Services Section installs new service connections and meters; maintains repairs and renews service connections; and maintains the Beretania Complex, Kalihi Office buildings and Kalihi Museum.

**Materials, Supplies and Services**

- 4250 Maintenance contract for rugs and dust mops, equipment rental and repair, etc.
- 4460 Small tool replacements and new issues, miscellaneous supplies, etc.
- 4805 Repair and maintenance of facilities.

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**FIELD OPERATIONS**

Distribution Branch

Maintenance Section

5550 - Dist.Svcs.; 5551 - Service Connections; 5553 - Building Maintenance

OBJECT ACCOUNT	OBJECT DESCRIPTION	FY 2014 ACTUALS	FY 2015 BUDGET	FY 2015 ACTUALS & FCST.	FY 2016 BUDGET
4110	REGULAR SALARIES	729,835	1,261,824	1,008,610	1,211,388
4120	OVERTIME	85,624	90,000	90,033	91,200
4130	MISC PAYROLL COSTS	55,250	43,400	34,606	78,400
	<b>TOTAL PERSONNEL SERVICES</b>	<b>870,709</b>	<b>1,395,224</b>	<b>1,133,248</b>	<b>1,380,988</b>
	<b>TOTAL POSITIONS</b>	<b>18</b>	<b>26</b>	<b>23</b>	<b>26</b>
4160	MEALS, MILEAGE, UNIFORM A	7,777	8,400	8,451	8,400
4250	OTHER CONTRACTUAL SERVICE	12,906	12,000	12,193	12,000
4430	MISC SUPPLIES	7	-	-	-
4460	OTHER MATERIALS & SUPPLIE	6,187	6,000	7,594	6,000
4805	REPAIR AND MAINT OF STRUC	2,751	24,000	18,228	24,000
4815	REPAIR AND MAINT OF EQUIP	158	-	-	-
8050	EQUIPMENT UNDER \$5,000	461	5,000	4,678	3,800
	<b>TOTAL MATERIAL &amp; SUPPLIES</b>	<b>30,247</b>	<b>55,400</b>	<b>51,144</b>	<b>54,200</b>
1270	GENERAL PLANT & EQUIPMENT	-	-	-	-
	<b>TOTAL EQUIPMENT</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
	<b>TOTAL OPERATING EXPENDITURES</b>	<b>900,956</b>	<b>1,450,624</b>	<b>1,184,392</b>	<b>1,435,188</b>

**Section's Activity**

The Meter Maintenance Section operates and maintains the meter shop for testing and repairing meters; maintains and updates the meter record system; conducts annual meter replacement and overhaul 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.

**Materials, Supplies and Services**

- 1120 Water meter inventory.
- 1125 AMR parts & supplies - Meter transceiver units, encoded register, and miscellaneous AMR inventory.
- 4460 Temporary hydrant meter components and other miscellaneous materials and supplies.
- 4815 Bench tester maintenance, and meter master battery replacement/repairs.

**BOARD OF WATER SUPPLY  
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**FIELD OPERATIONS**

5552 - Meter Shop (5385)

<b>OBJECT ACCOUNT</b>	<b>OBJECT DESCRIPTION</b>	<b>FY 2014 ACTUALS</b>	<b>FY 2015 BUDGET</b>	<b>FY 2015 ACTUALS &amp; FCST.</b>	<b>FY 2016 BUDGET</b>
4110	REGULAR SALARIES	336,000	936,528	821,684	1,163,673
4120	OVERTIME	11,000	24,000	9,991	12,000
4130	MISC PAYROLL COSTS	-	3,600	11,400	20,000
	<b>TOTAL PERSONNEL SERVICES</b>	<b>347,000</b>	<b>964,128</b>	<b>843,075</b>	<b>1,195,673</b>
	<b>TOTAL POSITIONS</b>	<b>7</b>	<b>21</b>	<b>19</b>	<b>25</b>
1120	METERS	957,000	1,200,000	1,200,000	2,400,000
1125	AMR MATERIALS & SUPPLIES	471,000	1,320,000	1,320,000	2,400,000
4160	MEALS, MILEAGE, UNIFORM A	-	1,200	2,000	-
4250	OTHER CONTRACTUAL SERVICE	7,000	12,000	9,000	50,000
4430	MISC SUPPLIES	-	-	-	-
4460	OTHER MATERIALS & SUPPLIE	9,000	12,000	12,000	12,000
4470	PARTS AND ACCESSORIES	-	1,200	-	2,400
4815	REPAIR AND MAINT OF EQUIP	-	12,000	-	12,000
4910	MISC FEES & REGISTRATIONS	-	-	-	-
8050	EQUIPMENT UNDER \$5,000	2,000	11,000	11,000	4,200
	<b>TOTAL MATERIAL &amp; SUPPLIES</b>	<b>1,446,000</b>	<b>2,569,400</b>	<b>2,554,000</b>	<b>4,880,600</b>
1270	GENERAL PLANT & EQUIPMENT	18,000	-	-	-
	<b>TOTAL EQUIPMENT</b>	<b>18,000</b>	<b>-</b>	<b>-</b>	<b>-</b>
	<b>TOTAL OPERATING EXPENDITURES</b>	<b>1,811,000</b>	<b>3,533,528</b>	<b>3,397,075</b>	<b>6,076,273</b>

**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 operates a radio-telephone communications center.

**Materials, Supplies and Services**

4250 Equipment rentals welding services

4815 misc. tools and supplies

**BOARD OF WATER SUPPLY  
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**FIELD OPERATIONS**

5560 - Windward Branch

<b>OBJECT ACCOUNT</b>	<b>OBJECT DESCRIPTION</b>	<b>FY 2014 ACTUALS</b>	<b>FY 2015 BUDGET</b>	<b>FY 2015 ACTUALS &amp; FCST.</b>	<b>FY 2016 BUDGET</b>
4110	REGULAR SALARIES	1,198,000	1,580,472	1,441,574	1,646,296
4120	OVERTIME	100,000	120,000	112,398	120,000
4130	MISC PAYROLL COSTS	81,000	122,500	117,329	150,000
	<b>TOTAL PERSONNEL SERVICES</b>	<b>1,379,000</b>	<b>1,822,972</b>	<b>1,671,302</b>	<b>1,916,296</b>
	<b>TOTAL POSITIONS</b>	<b>24</b>	<b>30</b>	<b>28</b>	<b>30</b>
4160	MEALS, MILEAGE, UNIFORM A	11,000	12,000	11,715	12,000
4250	OTHER CONTRACTUAL SERVICE	10,000	1,700	1,700	1,700
4430	MISC SUPPLIES	-	-	23	-
4440	MOTOR VEHICLE PARTS & ACC	-	-	-	-
4460	OTHER MATERIALS & SUPPLIE	14,000	12,000	15,293	14,400
4720	CONFERENCE EXPENSES	-	-	248	-
4805	REPAIR AND MAINT OF STRUC	3,000	-	-	-
4815	REPAIR AND MAINT OF EQUIP	-	4,800	3,820	3,600
4923	STORE MATERIALS & EXP DIS	-	-	-	-
8050	EQUIPMENT UNDER \$5,000	12,000	3,200	3,200	5,700
	<b>TOTAL MATERIAL &amp; SUPPLIES</b>	<b>50,000</b>	<b>33,700</b>	<b>35,999</b>	<b>37,400</b>
1270	GENERAL PLANT & EQUIPMENT	-	34,000	-	-
	<b>TOTAL EQUIPMENT</b>	<b>-</b>	<b>34,000</b>	<b>-</b>	<b>-</b>
	<b>TOTAL OPERATING EXPENDITURES</b>	<b>1,429,000</b>	<b>1,890,672</b>	<b>1,707,301</b>	<b>1,953,696</b>

**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.

**Materials, Supplies and Services**

1110 Storeroom inventory materials

4420 Asphalt, aggregate, cold mix, gravel, etc.

4460 Miscellaneous non-stock items

**BOARD OF WATER SUPPLY  
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**FIELD OPERATIONS**

Administrative Support Branch

5585 - Supply Section

<b>OBJECT ACCOUNT</b>	<b>OBJECT DESCRIPTION</b>	<b>FY 2014 ACTUALS</b>	<b>FY 2015 BUDGET</b>	<b>FY 2015 ACTUALS &amp; FCST.</b>	<b>FY 2016 BUDGET</b>
4110	REGULAR SALARIES	254,000	296,844	316,200	329,820
4120	OVERTIME	2,000	3,600	5,563	6,000
4130	MISC PAYROLL COSTS	-	1,200	800	20,200
	<b>TOTAL PERSONNEL SERVICES</b>	<b>256,000</b>	<b>301,644</b>	<b>322,564</b>	<b>356,020</b>
	<b>TOTAL POSITIONS</b>	<b>7</b>	<b>8</b>	<b>8</b>	<b>8</b>
1110	MATERIALS & SUPPLIES	1,080,000	2,000,000	2,000,000	2,000,000
4160	MEALS, MILEAGE, UNIFORM A	1,000	3,000	2,700	3,600
4267	PRINTED FORMS	-	600	-	-
4420	HIGHWAY MATERIALS	15,000	48,000	46,000	36,000
4430	MISC SUPPLIES	-	-	3,000	-
4460	OTHER MATERIALS & SUPPLIE	78,000	84,000	84,000	84,000
4920	NON-POTABLE WATER TREATME	-	60,000	45,000	60,000
4923	STORE MATERIALS & EXP DIS	526,000	500,000	500,000	500,000
8050	EQUIPMENT UNDER \$5,000	-	-	-	-
	<b>TOTAL MATERIAL &amp; SUPPLIES</b>	<b>1,700,000</b>	<b>2,695,600</b>	<b>2,680,700</b>	<b>2,683,600</b>
1270	GENERAL PLANT & EQUIPMENT	-	-	-	-
	<b>TOTAL EQUIPMENT</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
	<b>TOTAL OPERATING EXPENDITURES</b>	<b>1,956,000</b>	<b>2,997,244</b>	<b>3,003,264</b>	<b>3,039,620</b>

**Division's Activity**

The Capital Projects Division is responsible for developing and administering the department's Capital Improvement Program and the design and construction of all waterworks facilities, including mains and appurtenances, well and pump stations, reservoirs, and support facilities. This involves preparing detailed plans and specifications for all waterworks installations, administering consultant contracts, and implementing and inspecting all phases of construction.

Details of expenditures are shown in each section.

**BOARD OF WATER SUPPLY  
OPERATING BUDGET  
FISCAL YEAR 2016**

**CAPITAL PROJECTS DIVISION - TOTAL**

OBJECT ACCOUNT	OBJECT DESCRIPTION	FY 2014 ACTUALS	FY 2015 BUDGET	FY 2015 ACTUALS & FCST.	FY 2016 BUDGET
4110	REGULAR SALARIES	3,398,844	4,071,035	3,752,584	4,367,720
4120	OVERTIME	274,485	336,500	336,838	340,200
4130	MISC PAYROLL COSTS	4,495	236,480	134,445	124,000
	<b>TOTAL PERSONNEL SERVICES</b>	<b>3,677,824</b>	<b>4,644,015</b>	<b>4,223,866</b>	<b>4,831,920</b>
	<b>TOTAL POSITIONS</b>	<b>49</b>	<b>66</b>	<b>53</b>	<b>66</b>
4160	MEALS, MILEAGE, UNIFORM A	12,790	19,900	18,156	19,800
4250	OTHER CONTRACTUAL SERVICE	1,942,642	3,155,000	3,004,658	1,990,000
4260	ADV & PUBL OF NOTICES	-	2,000	2,000	2,000
4430	MISC SUPPLIES	5,743	8,400	6,204	6,700
4460	OTHER MATERIALS & SUPPLIE	1,312	6,300	726	4,800
4480	POSTAGE	5	-	-	-
4500	EDUCATION & TRAINING	420	27,700	5,857	18,700
4650	SECURITY CAMERA CABLE LIN	-	-	-	-
4720	CONFERENCE EXPENSES	7,561	13,150	9,189	9,500
4815	REPAIR AND MAINT OF EQUIP	7,169	10,100	9,597	10,600
4910	MISC FEES & REGISTRATIONS	100	23,000	23,308	23,000
8050	EQUIPMENT UNDER \$5,000	5,456	3,500	1,929	750
	<b>TOTAL MATERIAL &amp; SUPPLIES</b>	<b>1,983,198</b>	<b>3,269,050</b>	<b>3,081,624</b>	<b>2,685,850</b>
1270	GENERAL PLANT & EQUIPMENT	-	200,000	-	-
	<b>TOTAL EQUIPMENT</b>	<b>-</b>	<b>200,000</b>	<b>-</b>	<b>-</b>
	<b>TOTAL OPERATING EXPENDITURES</b>	<b>5,661,022</b>	<b>8,113,065</b>	<b>7,305,490</b>	<b>7,517,770</b>

**Section's Activity**

The Engineering Branch Administration administers the programs involving the planning, designing, inspecting and executing of all waterworks projects that are incorporated into the public water system.

**Materials, Supplies and Services**

4250 consultant services to support the Program Management project

**BOARD OF WATER SUPPLY  
OPERATING BUDGET  
FISCAL YEAR 2016**

**CAPITAL PROJECTS DIVISION**  
5565 - Administration

OBJECT ACCOUNT	OBJECT DESCRIPTION	FY 2014 ACTUALS	FY 2015 BUDGET	FY 2015 ACTUALS & FCST.	FY 2016 BUDGET
4110	REGULAR SALARIES	411,557	471,262	464,156	514,323
4120	OVERTIME	-	1,100	-	-
4130	MISC PAYROLL COSTS	-	13,680	-	-
	<b>TOTAL PERSONNEL SERVICES</b>	<b>411,557</b>	<b>486,042</b>	<b>464,156</b>	<b>514,323</b>
	<b>TOTAL POSITIONS</b>	<b>6</b>	<b>7</b>	<b>6</b>	<b>7</b>
4160	MEALS, MILEAGE, UNIFORM A	-	100	100	200
4250	OTHER CONTRACTUAL SERVICE	1,878,000	2,400,000	2,299,000	1,200,000
4260	ADV & PUBL OF NOTICES	-	2,000	2,000	2,000
4430	MISC SUPPLIES	1,319	8,400	1,980	2,500
4460	OTHER MATERIALS & SUPPLIE	-	6,300	-	-
4500	EDUCATION & TRAINING	-	1,000	-	1,000
4720	CONFERENCE EXPENSES	2,307	3,150	745	2,500
4815	REPAIR AND MAINT OF EQUIP	742	2,000	2,001	2,000
4910	MISC FEES & REGISTRATIONS	-	22,500	22,500	22,500
8050	EQUIPMENT UNDER \$5,000	2,600	1,000	454	-
	<b>TOTAL MATERIAL &amp; SUPPLIES</b>	<b>1,884,968</b>	<b>2,446,450</b>	<b>2,328,780</b>	<b>1,232,700</b>
1270	GENERAL PLANT & EQUIPMENT	-	200,000	-	-
	<b>TOTAL EQUIPMENT</b>	<b>-</b>	<b>200,000</b>	<b>-</b>	<b>-</b>
	<b>TOTAL OPERATING EXPENDITURES</b>	<b>2,296,525</b>	<b>3,132,492</b>	<b>2,792,936</b>	<b>1,747,023</b>

**Section's Activity**

The Design Section administers the department's Capital Improvement Program through project management teams; prepares detailed specifications and plans for all waterworks installations; coordinates and administers all consultant contracts; coordinates and secures all necessary permits and clearances for construction; provides design assistance to other divisions as required; determines feasibility of pipeline alignments, reservoir sites and pumping facilities; prepares plans and specifications for all major replacement and repair projects including additions to the system.

**Materials, Supplies and Services**

4460 Miscellaneous engineering and office supplies.

4500 Autocad training and other miscellaneous technical training classes

**BOARD OF WATER SUPPLY  
OPERATING BUDGET  
FISCAL YEAR 2016**

**CAPITAL PROJECTS DIVISION**

5570 - Design

OBJECT ACCOUNT	OBJECT DESCRIPTION	FY 2014 ACTUALS	FY 2015 BUDGET	FY 2015 ACTUALS & FCST.	FY 2016 BUDGET
4110	REGULAR SALARIES	769,455	884,976	809,224	876,336
4120	OVERTIME	66,611	78,000	77,948	84,000
4130	MISC PAYROLL COSTS	-	1,200	3,012	3,000
	<b>TOTAL PERSONNEL SERVICES</b>	<b>836,066</b>	<b>964,176</b>	<b>890,183</b>	<b>963,336</b>
	<b>TOTAL POSITIONS</b>	<b>9</b>	<b>15</b>	<b>12</b>	<b>15</b>
4160	MEALS, MILEAGE, UNIFORM A	3,292	3,000	3,013	3,000
4430	MISC SUPPLIES	530	-	24	-
4460	OTHER MATERIALS & SUPPLIE	77	-	-	3,000
4480	POSTAGE	5	-	-	-
4500	EDUCATION & TRAINING	20	13,900	1,838	6,200
4720	CONFERENCE EXPENSES	1,685	2,975	3,744	2,500
8050	EQUIPMENT UNDER \$5,000	906	1,000	1,000	-
	<b>TOTAL MATERIAL &amp; SUPPLIES</b>	<b>6,515</b>	<b>20,875</b>	<b>9,619</b>	<b>14,700</b>
1270	GENERAL PLANT & EQUIPMENT	-	-	-	-
	<b>TOTAL EQUIPMENT</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
	<b>TOTAL OPERATING EXPENDITURES</b>	<b>842,581</b>	<b>985,051</b>	<b>899,802</b>	<b>978,036</b>

**Section's Activity**

The Construction Section implements and inspects the construction phases of the department's Capital Improvement Program. This section also plans and coordinates construction schedules and procedures of all water system facilities; inspects the construction of all water system facilities for adherence to the department's standards, policies, plans and specifications utilizing approved construction and engineering practices.

**Materials, Supplies and Services**

4250 consultant services to coordinate with PMIS consultants.

**BOARD OF WATER SUPPLY  
OPERATING BUDGET  
FISCAL YEAR 2016**

**CAPITAL PROJECTS DIVISION  
5575 - Construction Branch**

<b>OBJECT ACCOUNT</b>	<b>OBJECT DESCRIPTION</b>	<b>FY 2014 ACTUALS</b>	<b>FY 2015 BUDGET</b>	<b>FY 2015 ACTUALS &amp; FCST.</b>	<b>FY 2016 BUDGET</b>
4110	REGULAR SALARIES	1,407,712	1,754,313	1,649,613	1,981,658
4120	OVERTIME	207,766	252,000	256,308	252,000
4130	MISC PAYROLL COSTS	4,495	219,600	131,433	121,000
	<b>TOTAL PERSONNEL SERVICES</b>	<b>1,619,973</b>	<b>2,225,913</b>	<b>2,037,354</b>	<b>2,354,658</b>
	<b>TOTAL POSITIONS</b>	<b>21</b>	<b>29</b>	<b>23</b>	<b>29</b>
4160	MEALS, MILEAGE, UNIFORM A	9,498	16,500	15,043	16,500
4250	OTHER CONTRACTUAL SERVICE	22,108	660,000	643,706	660,000
4430	MISC SUPPLIES	530	-	18	-
4460	OTHER MATERIALS & SUPPLIE	1,231	-	726	-
4500	EDUCATION & TRAINING	400	6,000	3,600	6,000
4720	CONFERENCE EXPENSES	3,569	4,700	4,700	4,000
4910	MISC FEES & REGISTRATIONS	100	500	500	500
8050	EQUIPMENT UNDER \$5,000	286	-	475	-
	<b>TOTAL MATERIAL &amp; SUPPLIES</b>	<b>37,722</b>	<b>687,700</b>	<b>668,768</b>	<b>687,000</b>
1270	GENERAL PLANT & EQUIPMENT	-	-	-	-
	<b>TOTAL EQUIPMENT</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
	<b>TOTAL OPERATING EXPENDITURES</b>	<b>1,657,695</b>	<b>2,913,613</b>	<b>2,706,122</b>	<b>3,041,658</b>

**Section's Activity**

The Support Section prepares the Department's annual Capital Improvement Program; coordinates BWS projects with other City and State projects; prepares plans, specifications, and contract documents for facility repair and replacement projects; oversees consultant contracts for studies and for the design of repairs to BWS facilities and water system improvements; coordinates and assembles plans and specifications for projects to be advertised for competitive bidding; prepares maps for presentations on BWS projects to community associations; develops and maintains water system standards; conducts materials testing and research programs to evaluate new materials and equipment; maintains main break records and develops main replacement programs; maintains and updates the distribution maps; develops fire protection improvement programs; maintains and updates fire hydrant files; prepares responses to public information requests and complaints on water facilities; updates BWS GIS water infrastructure data, main break locations, and BWS project data; compiles the Engineering Branch's physical inventory; purchases common engineering supplies for the Branch; and maintains the Department's construction as-built drawings.

**Materials, Supplies and Services**

- 4250 Consolidated charges for printing of Water System standards, reproduction of maps, mylar duplicates, As-built plans, contract drawings, departmental tax map rentals, photographic services, etc.
- 4270 updating the 2002 Water Systems Standards (Oahu only)
- 4815 Repair and maintenance of blueprint machines and survey equipment.

**BOARD OF WATER SUPPLY  
OPERATING BUDGET  
FISCAL YEAR 2016**

**CAPITAL PROJECTS DIVISION**

5580 - Support Branch

OBJECT ACCOUNT	OBJECT DESCRIPTION	FY 2014 ACTUALS	FY 2015 BUDGET	FY 2015 ACTUALS & FCST.	FY 2016 BUDGET
4110	REGULAR SALARIES	448,704	487,286	443,645	506,232
4120	OVERTIME	108	3,000	2,582	3,000
4130	MISC PAYROLL COSTS	-	1,000	-	-
	<b>TOTAL PERSONNEL SERVICES</b>	<b>448,812</b>	<b>491,286</b>	<b>446,227</b>	<b>509,232</b>
	<b>TOTAL POSITIONS</b>	<b>7</b>	<b>8</b>	<b>6</b>	<b>8</b>
4160	MEALS, MILEAGE, UNIFORM A	-	100	-	100
4250	OTHER CONTRACTUAL SERVICE	16,340	25,000	22,674	25,000
4270	PROFESSIONAL SERVICES	-	-	-	600,000
4430	MISC SUPPLIES	3,053	-	4,182	4,200
4460	OTHER MATERIALS & SUPPLIE	4	-	-	-
4500	EDUCATION & TRAINING	-	4,800	419	2,500
4720	CONFERENCE EXPENSES	-	375	-	500
4815	REPAIR AND MAINT OF EQUIP	6,427	8,100	7,596	8,600
4910	MISC FEES & REGISTRATIONS	-	-	308	-
8050	EQUIPMENT UNDER \$5,000	288	-	-	-
	<b>TOTAL MATERIAL &amp; SUPPLIES</b>	<b>26,112</b>	<b>38,375</b>	<b>35,179</b>	<b>640,900</b>
1270	GENERAL PLANT & EQUIPMENT	-	-	-	-
	<b>TOTAL EQUIPMENT</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
	<b>TOTAL OPERATING EXPENDITURES</b>	<b>474,924</b>	<b>529,661</b>	<b>481,406</b>	<b>1,150,132</b>

**Section's Activity**

The Mechanical/Electrical Section administers the Department's mechanical and electrical capital improvement program through consultant contracts and in-house design; reviews consultant plans, specifications and cost estimates; assists Capital Projects Division with mechanical and electrical design portions of their projects; prepares project plans, specifications and other necessary documents for competitive bidding; prepares contracts, award letters, change orders, and other required correspondence; prepares cost estimates to secure funding for future projects; provide technical assistance to construction inspectors during construction; conduct performance and acceptance testing of all mechanical and electrical equipment

**Materials, Supplies and Services**

4250 temporary and permanent HECO service fees for various construction projects

**BOARD OF WATER SUPPLY  
OPERATING BUDGET  
FISCAL YEAR 2016**

**CAPITAL PROJECTS DIVISION**

5582 (5630) - Mechanical / Electrical Branch

<b>OBJECT ACCOUNT</b>	<b>OBJECT DESCRIPTION</b>	<b>FY 2014 ACTUALS</b>	<b>FY 2015 BUDGET</b>	<b>FY 2015 ACTUALS &amp; FCST.</b>	<b>FY 2016 BUDGET</b>
4110	REGULAR SALARIES	361,416	473,198	385,945	489,171
4120	OVERTIME	-	2,400	-	1,200
4130	MISC PAYROLL COSTS	-	1,000	-	-
	<b>TOTAL PERSONNEL SERVICES</b>	<b>361,416</b>	<b>476,598</b>	<b>385,945</b>	<b>490,371</b>
	<b>TOTAL POSITIONS</b>	<b>6</b>	<b>7</b>	<b>6</b>	<b>7</b>
4160	MEALS, MILEAGE, UNIFORM A	-	200	-	-
4250	OTHER CONTRACTUAL SERVICE	26,194	70,000	39,278	105,000
4430	MISC SUPPLIES	311	-	-	-
4460	OTHER MATERIALS & SUPPLIE	-	-	-	1,800
4500	EDUCATION & TRAINING	-	2,000	-	3,000
4720	CONFERENCE EXPENSES	-	1,950	-	-
8050	EQUIPMENT UNDER \$5,000	1,376	1,500	-	750
	<b>TOTAL MATERIAL &amp; SUPPLIES</b>	<b>27,881</b>	<b>75,650</b>	<b>39,278</b>	<b>110,550</b>
1270	GENERAL PLANT & EQUIPMENT	-	-	-	-
	<b>TOTAL EQUIPMENT</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
	<b>TOTAL OPERATING EXPENDITURES</b>	<b>389,297</b>	<b>552,248</b>	<b>425,223</b>	<b>600,921</b>

**Division'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 administers the mechanical and electrical Capital Program; performs required water quality testing and monitoring; and purchases, maintains, and repairs the department's vehicles and construction equipment.

Details of expenditures are shown in each section.

**BOARD OF WATER SUPPLY  
OPERATING BUDGET  
FISCAL YEAR 2016**

**WATER SYSTEM OPERATIONS DIVISION - TOTAL**

OBJECT ACCOUNT	OBJECT DESCRIPTION	FY 2014 ACTUALS	FY 2015 BUDGET	FY 2015 ACTUALS & FCST.	FY 2016 BUDGET
4110	REGULAR SALARIES	3,781,000	5,712,844	4,537,609	6,254,173
4120	OVERTIME	440,000	496,000	453,327	542,800
4130	MISC PAYROLL COSTS	19,000	117,620	-	111,600
	<b>TOTAL PERSONNEL SERVICES</b>	<b>4,240,000</b>	<b>6,326,464</b>	<b>4,990,936</b>	<b>6,908,573</b>
	<b>TOTAL POSITIONS</b>	<b>70</b>	<b>106</b>	<b>87</b>	<b>115</b>
4160	MEALS, MILEAGE, UNIFORM A	12,000	35,500	29,655	35,500
4250	OTHER CONTRACTUAL SERVICE	217,000	287,000	275,800	295,200
4267	PRINTED FORMS	-	100	100	100
4270	PROFESSIONAL SERVICES	1,350,000	1,620,000	-	840,000
4410	GASOLINE	783,000	990,000	995,500	990,000
4430	MISC SUPPLIES	4,000	6,000	4,600	11,000
4440	MOTOR VEHICLE PARTS & ACC	379,000	408,900	473,000	432,000
4460	OTHER MATERIALS & SUPPLIE	1,990,000	2,647,000	2,869,445	2,698,500
4470	PARTS AND ACCESSORIES	469,000	540,000	498,281	524,400
4500	EDUCATION & TRAINING	8,000	59,100	30,400	79,600
4670	TELEMETERING	192,000	240,000	214,000	240,000
4680	TELEPHONE	-	-	-	-
4720	CONFERENCE EXPENSES	5,000	10,300	2,300	15,800
4805	REPAIR AND MAINT OF STRUC	133,000	60,000	17,000	52,000
4815	REPAIR AND MAINT OF EQUIP	892,000	1,306,800	1,268,000	1,165,200
4910	MISC FEES & REGISTRATIONS	2,000	2,100	3,300	5,100
8050	EQUIPMENT UNDER \$5,000	404,000	939,400	902,880	731,500
	<b>TOTAL MATERIAL &amp; SUPPLIES</b>	<b>6,840,000</b>	<b>9,152,200</b>	<b>7,584,261</b>	<b>8,115,900</b>
1270	GENERAL PLANT & EQUIPMENT	1,399,000	2,060,100	1,541,200	2,560,100
	<b>TOTAL EQUIPMENT</b>	<b>1,399,000</b>	<b>2,060,100</b>	<b>1,541,200</b>	<b>2,560,100</b>
	<b>TOTAL OPERATING EXPENDITURES</b>	<b>12,479,000</b>	<b>17,538,764</b>	<b>14,116,397</b>	<b>17,584,573</b>

**Section's Activity**

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

**Materials, Supplies and Services**

4250 Cell phone charges; office equipment maintenance.

4270 consultant services for the Instrumentation and Control upgrade for all pump and treatment stations.

**BOARD OF WATER SUPPLY  
OPERATING BUDGET  
FISCAL YEAR 2016**

**WATER SYSTEM OPERATIONS DIVISION**

5600 - Administration

OBJECT ACCOUNT	OBJECT DESCRIPTION	FY 2014 ACTUALS	FY 2015 BUDGET	FY 2015 ACTUALS & FCST.	FY 2016 BUDGET
4110	REGULAR SALARIES	358,000	480,757	372,565	361,345
4120	OVERTIME	1,000	3,600	2,907	2,400
4130	MISC PAYROLL COSTS	-	16,900	-	19,900
	<b>TOTAL PERSONNEL SERVICES</b>	<b>359,000</b>	<b>501,257</b>	<b>375,472</b>	<b>383,645</b>
	<b>TOTAL POSITIONS</b>	<b>6</b>	<b>9</b>	<b>7</b>	<b>6</b>
4160	MEALS, MILEAGE, UNIFORM A	-	300	-	300
4250	OTHER CONTRACTUAL SERVICE	15,000	39,400	36,500	18,000
4270	PROFESSIONAL SERVICES	1,350,000	1,620,000	-	840,000
4430	MISC SUPPLIES	3,000	4,800	4,500	4,800
4460	OTHER MATERIALS & SUPPLIE	-	700	-	-
4500	EDUCATION & TRAINING	-	1,800	1,600	2,300
4720	CONFERENCE EXPENSES	3,000	1,500	1,500	3,000
4815	REPAIR AND MAINT OF EQUIP	3,000	-	-	-
4910	MISC FEES & REGISTRATIONS	-	-	-	600
8050	EQUIPMENT UNDER \$5,000	-	2,100	2,000	-
	<b>TOTAL MATERIAL &amp; SUPPLIES</b>	<b>1,374,000</b>	<b>1,670,600</b>	<b>46,100</b>	<b>869,000</b>
1270	GENERAL PLANT & EQUIPMENT	-	16,000	16,000	-
	<b>TOTAL EQUIPMENT</b>	<b>-</b>	<b>16,000</b>	<b>16,000</b>	<b>-</b>
	<b>TOTAL OPERATING EXPENDITURES</b>	<b>1,733,000</b>	<b>2,187,857</b>	<b>437,572</b>	<b>1,252,645</b>

**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.

**Materials, Supplies and Services**

4460 Chlorine replacement; GAC replacement

4815 Motor rewind and reconditioning.

**BOARD OF WATER SUPPLY  
OPERATING BUDGET  
FISCAL YEAR 2016**

**WATER SYSTEM OPERATIONS DIVISION**

Plant Operations Branch  
5610 - Administration

OBJECT ACCOUNT	OBJECT DESCRIPTION	FY 2014 ACTUALS	FY 2015 BUDGET	FY 2015 ACTUALS & FCST.	FY 2016 BUDGET
4110	REGULAR SALARIES	79,000	138,108	72,609	234,792
4120	OVERTIME	3,000	9,000	7,496	9,000
4130	MISC PAYROLL COSTS	-	1,200	-	1,200
	<b>TOTAL PERSONNEL SERVICES</b>	<b>82,000</b>	<b>148,308</b>	<b>80,105</b>	<b>244,992</b>
	<b>TOTAL POSITIONS</b>	<b>1</b>	<b>2</b>	<b>1</b>	<b>4</b>
4160	MEALS, MILEAGE, UNIFORM A	-	300	-	300
4250	OTHER CONTRACTUAL SERVICE	73,000	10,000	8,000	3,600
4460	OTHER MATERIALS & SUPPLIE	1,776,000	2,386,700	2,621,000	2,409,400
4470	PARTS AND ACCESSORIES	18,000	-	4,000	-
4500	EDUCATION & TRAINING	2,000	8,900	-	900
4670	TELEMETERING	1,000	-	-	-
4720	CONFERENCE EXPENSES	-	1,000	-	1,500
4805	REPAIR AND MAINT OF STRUC	105,000	50,000	9,000	48,000
4815	REPAIR AND MAINT OF EQUIP	685,000	822,000	818,000	888,400
8050	EQUIPMENT UNDER \$5,000	9,000	271,000	266,000	61,000
	<b>TOTAL MATERIAL &amp; SUPPLIES</b>	<b>2,669,000</b>	<b>3,549,900</b>	<b>3,727,000</b>	<b>3,420,500</b>
1270	GENERAL PLANT & EQUIPMENT	10,000	10,000	-	140,000
	<b>TOTAL EQUIPMENT</b>	<b>10,000</b>	<b>10,000</b>	<b>-</b>	<b>140,000</b>
	<b>TOTAL OPERATING EXPENDITURES</b>	<b>2,761,000</b>	<b>3,708,208</b>	<b>3,807,105</b>	<b>3,805,492</b>

**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.

**Materials, Supplies and Services**

- 4460 Lubricants for pumps, bearings and shafts, chlorine, sodium hypochlorite, replacements of small hand tools, miscellaneous parts, accessories and supplies, etc
- 4470 Provisions for pump and well control electronic conversion, pressure recorder parts, small electric motors, solenoid valves, electronic controls, motor line starters, etc.
- 4815 Replacement, reconditioning, maintenance and emergency repairs of pumps and motors and water treatment plant carbon replacement.

**BOARD OF WATER SUPPLY  
OPERATING BUDGET  
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**WATER SYSTEM OPERATIONS DIVISION**

Plant Operations Branch

5611 - District 1 Leeward West Section

OBJECT ACCOUNT	OBJECT DESCRIPTION	FY 2014 ACTUALS	FY 2015 BUDGET	FY 2015 ACTUALS & FCST.	FY 2016 BUDGET
4110	REGULAR SALARIES	339,000	598,345	386,585	616,924
4120	OVERTIME	86,000	100,000	100,432	100,000
4130	MISC PAYROLL COSTS	-	19,000	-	6,000
	<b>TOTAL PERSONNEL SERVICES</b>	<b>425,000</b>	<b>717,345</b>	<b>487,017</b>	<b>722,924</b>
	<b>TOTAL POSITIONS</b>	<b>7</b>	<b>11</b>	<b>7</b>	<b>11</b>
4160	MEALS, MILEAGE, UNIFORM A	4,000	6,200	6,000	6,200
4460	OTHER MATERIALS & SUPPLIE	32,000	36,000	33,000	39,600
4470	PARTS AND ACCESSORIES	91,000	120,400	117,000	110,000
4500	EDUCATION & TRAINING	1,000	4,800	4,580	9,600
4680	TELEPHONE	-	-	-	-
4720	CONFERENCE EXPENSES	-	1,000	-	1,500
4815	REPAIR AND MAINT OF EQUIP	-	62,000	60,000	12,000
8050	EQUIPMENT UNDER \$5,000	25,000	92,400	81,000	72,700
	<b>TOTAL MATERIAL &amp; SUPPLIES</b>	<b>153,000</b>	<b>322,800</b>	<b>301,580</b>	<b>251,600</b>
1270	GENERAL PLANT & EQUIPMENT	-	160,000	-	36,000
	<b>TOTAL EQUIPMENT</b>	<b>-</b>	<b>160,000</b>	<b>-</b>	<b>36,000</b>
	<b>TOTAL OPERATING EXPENDITURES</b>	<b>578,000</b>	<b>1,200,145</b>	<b>788,597</b>	<b>1,010,524</b>

**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.

**Materials, Supplies and Services**

- 4460 Lubricants for pumps, bearings and shafts, chlorine, sodium hypochlorite, replacements of small hand tools, miscellaneous parts, accessories and supplies, etc
- 4470 Provisions for pump and well control electronic conversion, pressure recorder parts, small electric motors, solenoid valves, electronic controls, motor line starters, etc.
- 4815 Replacement, reconditioning, maintenance and emergency repairs of pumps and motors and water treatment plant carbon replacement

**BOARD OF WATER SUPPLY  
OPERATING BUDGET  
FISCAL YEAR 2016**

**WATER SYSTEM OPERATIONS DIVISION**

Plant Operations Branch

5612 - District 2 Central/Windward Section

OBJECT ACCOUNT	OBJECT DESCRIPTION	FY 2014 ACTUALS	FY 2015 BUDGET	FY 2015 ACTUALS & FCST.	FY 2016 BUDGET
4110	REGULAR SALARIES	356,000	547,200	373,986	567,576
4120	OVERTIME	81,000	96,000	94,553	132,000
4130	MISC PAYROLL COSTS	12,000	12,000	-	12,000
	<b>TOTAL PERSONNEL SERVICES</b>	<b>449,000</b>	<b>655,200</b>	<b>468,540</b>	<b>711,576</b>
	<b>TOTAL POSITIONS</b>	<b>8</b>	<b>10</b>	<b>7</b>	<b>10</b>
4160	MEALS, MILEAGE, UNIFORM A	1,000	7,400	6,800	7,400
4460	OTHER MATERIALS & SUPPLIE	19,000	44,800	42,000	44,800
4470	PARTS AND ACCESSORIES	56,000	89,200	81,000	80,000
4500	EDUCATION & TRAINING	1,000	4,800	3,600	9,600
4720	CONFERENCE EXPENSES	-	1,000	-	1,500
4805	REPAIR AND MAINT OF STRUC	-	-	-	-
4815	REPAIR AND MAINT OF EQUIP	89,000	232,000	220,000	68,000
8050	EQUIPMENT UNDER \$5,000	11,000	69,000	62,500	79,500
	<b>TOTAL MATERIAL &amp; SUPPLIES</b>	<b>177,000</b>	<b>448,200</b>	<b>415,900</b>	<b>290,800</b>
1270	GENERAL PLANT & EQUIPMENT	-	-	-	10,000
	<b>TOTAL EQUIPMENT</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>10,000</b>
	<b>TOTAL OPERATING EXPENDITURES</b>	<b>626,000</b>	<b>1,103,400</b>	<b>884,440</b>	<b>1,012,376</b>

**Section's Activity**

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

**Materials, Supplies and Services**

- 4460 Lubricants for pumps, bearings and shafts, chlorine, sodium hypochlorite, replacements of small hand tools, miscellaneous parts, accessories and supplies, etc
- 4470 Provisions for pump and well control electronic conversion, pressure recorder parts, small electric motors, solenoid valves, electronic controls, motor line starters, etc.
- 4815 Replacement, reconditioning, maintenance and emergency repairs of pumps and motors.

**BOARD OF WATER SUPPLY  
OPERATING BUDGET  
FISCAL YEAR 2016**

**WATER SYSTEM OPERATIONS DIVISION**

Plant Operations Branch

5613 - District 3 Metropolitan Section

OBJECT ACCOUNT	OBJECT DESCRIPTION	FY 2014 ACTUALS	FY 2015 BUDGET	FY 2015 ACTUALS & FCST.	FY 2016 BUDGET
4110	REGULAR SALARIES	342,000	548,112	270,777	564,540
4120	OVERTIME	45,000	48,000	47,779	60,000
4130	MISC PAYROLL COSTS	3,000	6,000	-	6,000
	<b>TOTAL PERSONNEL SERVICES</b>	<b>390,000</b>	<b>602,112</b>	<b>318,556</b>	<b>630,540</b>
	<b>TOTAL POSITIONS</b>	<b>5</b>	<b>10</b>	<b>5</b>	<b>10</b>
4160	MEALS, MILEAGE, UNIFORM A	-	3,300	3,282	3,300
4460	OTHER MATERIALS & SUPPLIE	25,000	37,100	33,845	17,900
4470	PARTS AND ACCESSORIES	117,000	120,000	78,281	100,000
4500	EDUCATION & TRAINING	-	4,800	3,180	9,600
4720	CONFERENCE EXPENSES	-	1,000	-	1,500
4815	REPAIR AND MAINT OF EQUIP	9,000	27,000	29,000	27,000
8050	EQUIPMENT UNDER \$5,000	40,000	59,200	52,000	42,500
	<b>TOTAL MATERIAL &amp; SUPPLIES</b>	<b>191,000</b>	<b>252,400</b>	<b>199,588</b>	<b>201,800</b>
1270	GENERAL PLANT & EQUIPMENT	-	10,000	-	50,000
	<b>TOTAL EQUIPMENT</b>	<b>-</b>	<b>10,000</b>	<b>-</b>	<b>50,000</b>
	<b>TOTAL OPERATING EXPENDITURES</b>	<b>581,000</b>	<b>864,512</b>	<b>518,144</b>	<b>882,340</b>

**Section's Activity**

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

**Materials, Supplies and Services**

- 4460 Lubricants for pumps, bearings and shafts, sodium hypochlorite, replacements of small hand tools, miscellaneous parts, accessories and supplies, etc
- 4470 Provisions for pump and well control electronic conversion, pressure recorder parts, small electric motors, solenoid valves, electronic controls, motor line starters, etc.
- 4815 GAC replacement, elevator maintenance.

**BOARD OF WATER SUPPLY  
OPERATING BUDGET  
FISCAL YEAR 2016**

**WATER SYSTEM OPERATIONS DIVISION**

Plant Operations Branch

5614 - District 4 Leeward East Section Section

OBJECT ACCOUNT	OBJECT DESCRIPTION	FY 2014 ACTUALS	FY 2015 BUDGET	FY 2015 ACTUALS & FCST.	FY 2016 BUDGET
4110	REGULAR SALARIES	348,000	550,056	387,359	568,512
4120	OVERTIME	55,000	56,400	35,970	56,400
4130	MISC PAYROLL COSTS	1,000	4,800	-	4,800
	<b>TOTAL PERSONNEL SERVICES</b>	<b>404,000</b>	<b>611,256</b>	<b>423,329</b>	<b>629,712</b>
	<b>TOTAL POSITIONS</b>	<b>6</b>	<b>10</b>	<b>7</b>	<b>10</b>
4160	MEALS, MILEAGE, UNIFORM A	1,000	5,600	4,792	5,600
4460	OTHER MATERIALS & SUPPLIE	22,000	16,900	22,000	26,000
4470	PARTS AND ACCESSORIES	61,000	60,000	58,000	74,000
4500	EDUCATION & TRAINING	1,000	4,800	4,720	9,600
4720	CONFERENCE EXPENSES	-	1,000	-	1,500
4805	REPAIR AND MAINT OF STRUC	19,000	-	-	-
4815	REPAIR AND MAINT OF EQUIP	6,000	12,000	12,000	18,000
8050	EQUIPMENT UNDER \$5,000	8,000	52,000	49,880	56,100
	<b>TOTAL MATERIAL &amp; SUPPLIES</b>	<b>118,000</b>	<b>152,300</b>	<b>151,392</b>	<b>190,800</b>
1270	GENERAL PLANT & EQUIPMENT	-	-	-	-
	<b>TOTAL EQUIPMENT</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
	<b>TOTAL OPERATING EXPENDITURES</b>	<b>522,000</b>	<b>763,556</b>	<b>574,721</b>	<b>820,512</b>

**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 the Board's regular working hours.

**BOARD OF WATER SUPPLY  
OPERATING BUDGET  
FISCAL YEAR 2016**

**WATER SYSTEM OPERATIONS DIVISION**

Plant Operations Branch

Technical Services and Control Center Section

5615 - Control Center Unit

OBJECT ACCOUNT	OBJECT DESCRIPTION	FY 2014 ACTUALS	FY 2015 BUDGET	FY 2015 ACTUALS & FCST.	FY 2016 BUDGET
4110	REGULAR SALARIES	466,000	611,160	521,331	635,592
4120	OVERTIME	120,000	110,000	109,594	110,000
4130	MISC PAYROLL COSTS	-	4,000	-	4,000
	<b>TOTAL PERSONNEL SERVICES</b>	<b>586,000</b>	<b>725,160</b>	<b>630,924</b>	<b>749,592</b>
	<b>TOTAL POSITIONS</b>	<b>9</b>	<b>12</b>	<b>11</b>	<b>12</b>
4160	MEALS, MILEAGE, UNIFORM A	6,000	6,000	5,181	6,000
4500	EDUCATION & TRAINING	-	4,800	3,720	9,600
4720	CONFERENCE EXPENSES	-	1,000	-	1,500
8050	EQUIPMENT UNDER \$5,000	1,000	3,500	3,500	3,000
	<b>TOTAL MATERIAL &amp; SUPPLIES</b>	<b>7,000</b>	<b>15,300</b>	<b>12,401</b>	<b>20,100</b>
1270	GENERAL PLANT & EQUIPMENT	-	-	-	-
	<b>TOTAL EQUIPMENT</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
	<b>TOTAL OPERATING EXPENDITURES</b>	<b>593,000</b>	<b>740,460</b>	<b>643,325</b>	<b>769,692</b>

**Section's Activity**

The Pumps – 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.

**Materials, Supplies and Services**

- 4470 Provisions for parts and air conditioning units, pump and well control electronic conversion, pressure recorder parts, small electric motors, solenoid valves, electronic controls, motor line starters, etc.

**BOARD OF WATER SUPPLY  
OPERATING BUDGET  
FISCAL YEAR 2016**

**WATER SYSTEM OPERATIONS DIVISION**

Plant Operations Branch

Technical Services and Control Center Section

5616 - Technical Services Unit

OBJECT ACCOUNT	OBJECT DESCRIPTION	FY 2014 ACTUALS	FY 2015 BUDGET	FY 2015 ACTUALS & FCST.	FY 2016 BUDGET
4110	REGULAR SALARIES	323,000	483,180	581,437	801,893
4120	OVERTIME	12,000	24,000	15,732	24,000
4130	MISC PAYROLL COSTS	2,000	24,800	-	28,800
	<b>TOTAL PERSONNEL SERVICES</b>	<b>337,000</b>	<b>531,980</b>	<b>597,168</b>	<b>854,693</b>
	<b>TOTAL POSITIONS</b>	<b>5</b>	<b>9</b>	<b>13</b>	<b>17</b>
4160	MEALS, MILEAGE, UNIFORM A	-	2,600	2,400	2,600
4460	OTHER MATERIALS & SUPPLIE	19,000	24,000	21,200	60,000
4470	PARTS AND ACCESSORIES	22,000	30,000	27,000	40,000
4500	EDUCATION & TRAINING	-	4,800	1,500	9,600
4720	CONFERENCE EXPENSES	-	1,000	-	1,500
4805	REPAIR AND MAINT OF STRUC	5,000	10,000	5,000	-
4815	REPAIR AND MAINT OF EQUIP	37,000	54,000	44,400	54,000
8050	EQUIPMENT UNDER \$5,000	8,000	17,900	16,000	61,400
	<b>TOTAL MATERIAL &amp; SUPPLIES</b>	<b>91,000</b>	<b>144,300</b>	<b>117,500</b>	<b>229,100</b>
1270	GENERAL PLANT & EQUIPMENT	-	-	-	55,000
	<b>TOTAL EQUIPMENT</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>55,000</b>
	<b>TOTAL OPERATING EXPENDITURES</b>	<b>428,000</b>	<b>676,280</b>	<b>714,668</b>	<b>1,138,793</b>

**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 multi-function telemetry and supervisory control systems and mobile radio systems.

**Materials, Supplies and Services**

- 4250 Hazardous material disposal; contracted radio work; tower antenna replacement
- 4470 Replacement parts and accessories required for continued upgrading of telemetry and supervisory control system (SCADA system) and the Board's mobile radio system.
- 4670 Lease charges for telephone lines used for telemetry and supervisory control networks.
- 4815 Service and maintenance contracts for the fire alarm system and the UPS (Uninterrupted Power Supply) system.

**BOARD OF WATER SUPPLY  
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FISCAL YEAR 2016**

**WATER SYSTEM OPERATIONS DIVISION**  
5620 - Telecommunications Branch

OBJECT ACCOUNT	OBJECT DESCRIPTION	FY 2014 ACTUALS	FY 2015 BUDGET	FY 2015 ACTUALS & FCST.	FY 2016 BUDGET
4110	REGULAR SALARIES	221,000	546,414	479,276	623,748
4120	OVERTIME	28,000	36,000	27,116	36,000
4130	MISC PAYROLL COSTS	-	12,000	-	12,000
	<b>TOTAL PERSONNEL SERVICES</b>	<b>249,000</b>	<b>594,414</b>	<b>506,392</b>	<b>671,748</b>
	<b>TOTAL POSITIONS</b>	<b>4</b>	<b>10</b>	<b>9</b>	<b>11</b>
4160	MEALS, MILEAGE, UNIFORM A	-	2,000	-	2,000
4250	OTHER CONTRACTUAL SERVICE	18,000	66,000	63,000	102,000
4460	OTHER MATERIALS & SUPPLIE	10,000	12,000	12,000	12,000
4470	PARTS AND ACCESSORIES	63,000	72,000	74,000	72,000
4500	EDUCATION & TRAINING	-	2,400	-	2,400
4670	TELEMETERING	191,000	240,000	214,000	240,000
4720	CONFERENCE EXPENSES	-	1,000	-	1,500
4815	REPAIR AND MAINT OF EQUIP	8,000	24,000	21,000	24,000
8050	EQUIPMENT UNDER \$5,000	295,000	356,000	351,000	343,000
	<b>TOTAL MATERIAL &amp; SUPPLIES</b>	<b>585,000</b>	<b>775,400</b>	<b>735,000</b>	<b>798,900</b>
1270	GENERAL PLANT & EQUIPMENT	-	177,000	-	192,000
	<b>TOTAL EQUIPMENT</b>	<b>-</b>	<b>177,000</b>	<b>-</b>	<b>192,000</b>
	<b>TOTAL OPERATING EXPENDITURES</b>	<b>834,000</b>	<b>1,546,814</b>	<b>1,241,392</b>	<b>1,662,648</b>

**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.

**Materials, Supplies and Services**

- 4250 Repair of automotive equipment; load tests; towing services; fire extinguisher costs; software updates; etc.
- 4440 Direct purchases of automotive parts, tires, and tire services, etc.
- 4460 Paint, cleaners, antifreeze, wire, sheet iron, decals, miscellaneous parts for shop equipment, etc.
- 4470 Direct purchases of construction equipment parts.
- 4815 Costs of repairs to transmissions, accident damages, windshields and windows, upholstery, radiators, front suspensions, etc

**BOARD OF WATER SUPPLY  
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**WATER SYSTEM OPERATIONS DIVISION**

5660 - Automotive Branch

<b>OBJECT ACCOUNT</b>	<b>OBJECT DESCRIPTION</b>	<b>FY 2014 ACTUALS</b>	<b>FY 2015 BUDGET</b>	<b>FY 2015 ACTUALS &amp; FCST.</b>	<b>FY 2016 BUDGET</b>
4110	REGULAR SALARIES	949,000	1,209,512	1,091,686	1,279,250
4120	OVERTIME	9,000	13,000	11,747	13,000
4130	MISC PAYROLL COSTS	1,000	16,920	-	16,900
	<b>TOTAL PERSONNEL SERVICES</b>	<b>959,000</b>	<b>1,239,432</b>	<b>1,103,433</b>	<b>1,309,150</b>
	<b>TOTAL POSITIONS</b>	<b>19</b>	<b>23</b>	<b>21</b>	<b>24</b>
4160	MEALS, MILEAGE, UNIFORM A	-	1,800	1,200	1,800
4250	OTHER CONTRACTUAL SERVICE	111,000	171,600	168,300	171,600
4267	PRINTED FORMS	-	100	100	100
4410	GASOLINE	783,000	990,000	995,500	990,000
4430	MISC SUPPLIES	1,000	1,200	100	1,200
4440	MOTOR VEHICLE PARTS & ACC	379,000	408,900	473,000	432,000
4460	OTHER MATERIALS & SUPPLIE	87,000	88,800	84,400	88,800
4470	PARTS AND ACCESSORIES	41,000	48,400	59,000	48,400
4500	EDUCATION & TRAINING	3,000	17,200	7,500	16,400
4720	CONFERENCE EXPENSES	2,000	800	800	800
4805	REPAIR AND MAINT OF STRUC	4,000	-	3,000	4,000
4815	REPAIR AND MAINT OF EQUIP	55,000	73,800	63,600	73,800
4910	MISC FEES & REGISTRATIONS	2,000	2,100	2,300	2,100
8050	EQUIPMENT UNDER \$5,000	7,000	16,300	19,000	12,300
	<b>TOTAL MATERIAL &amp; SUPPLIES</b>	<b>1,475,000</b>	<b>1,821,000</b>	<b>1,877,800</b>	<b>1,843,300</b>
1270	GENERAL PLANT & EQUIPMENT	1,389,000	1,687,100	1,525,200	2,077,100
	<b>TOTAL EQUIPMENT</b>	<b>1,389,000</b>	<b>1,687,100</b>	<b>1,525,200</b>	<b>2,077,100</b>
	<b>TOTAL OPERATING EXPENDITURES</b>	<b>3,823,000</b>	<b>4,747,532</b>	<b>4,506,433</b>	<b>5,229,550</b>

**Division's Activity**

The Information Technology Division designs, develops, maintains, and supports BWS databases; software systems; server workstation hardware and software; network telephone; and call center systems.

Details of expenditures are shown in each section.

**BOARD OF WATER SUPPLY  
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**INFORMATION TECHNOLOGY DIVISION - TOTAL**

OBJECT ACCOUNT	OBJECT DESCRIPTION	FY 2014 ACTUALS	FY 2015 BUDGET	FY 2015 ACTUALS & FCST	FY 2016 BUDGET
4110	REGULAR SALARIES	2,144,618	3,230,546	2,410,388	3,525,392
4120	OVERTIME	235,969	323,087	185,977	279,600
4130	MISC PAYROLL COSTS	-	175,166	1,600	62,772
	<b>TOTAL PERSONNEL SERVICES</b>	<b>2,380,587</b>	<b>3,728,799</b>	<b>2,597,965</b>	<b>3,867,764</b>
	<b>TOTAL POSITIONS</b>	<b>35</b>	<b>54</b>	<b>37</b>	<b>54</b>
4160	MEALS, MILEAGE, UNIFORM A	699	15,540	110	3,600
4250	OTHER CONTRACTUAL SERVICE	1,990,493	3,133,010	3,277,700	5,508,300
4251	SOFTWARE LICENSES & MAINT.	-	1,733,212	651,754	1,813,350
4265	PRINTING	-	-	-	5,000
4430	MISC SUPPLIES	1,927	7,700	3,717	6,500
4460	OTHER MATERIALS & SUPPLIE	81,611	85,360	93,729	109,210
4470	PARTS AND ACCESSORIES	158	5,000	19,700	13,200
4480	POSTAGE	1,165,000	1,180,208	960,100	1,120,800
4500	EDUCATION & TRAINING	21,949	131,220	61,024	139,400
4650	SECURITY CAMERA CABLE LIN	64,089	60,396	60,000	-
4720	CONFERENCE EXPENSES	21,967	56,315	30,600	57,115
4805	REPAIR AND MAINT OF STRUC	610	-	-	-
4815	REPAIR AND MAINT OF EQUIP	801,123	204,899	160,501	204,500
4910	MISC FEES & REGISTRATIONS	174	-	-	200
8050	EQUIPMENT UNDER \$5,000	202,716	381,434	506,000	383,400
	<b>TOTAL MATERIAL &amp; SUPPLIES</b>	<b>4,352,516</b>	<b>6,994,294</b>	<b>5,824,935</b>	<b>9,364,575</b>
1270	GENERAL PLANT & EQUIPMENT	448,981	730,998	442,100	414,900
	<b>TOTAL EQUIPMENT</b>	<b>448,981</b>	<b>730,998</b>	<b>442,100</b>	<b>414,900</b>
	<b>TOTAL OPERATING EXPENDITURES</b>	<b>7,182,084</b>	<b>11,454,091</b>	<b>8,865,000</b>	<b>13,647,239</b>

**Section's Activity**

The Administration Section provides administrative support services for the Information Technology Division.

**Materials, Supplies and Services**

4250 IT security consulting services; Gartner Group advisory services

**BOARD OF WATER SUPPLY  
OPERATING BUDGET  
FISCAL YEAR 2016**

**INFORMATION TECHNOLOGY DIVISION**  
5805 - Administration

OBJECT ACCOUNT	OBJECT DESCRIPTION	FY 2014 ACTUALS	FY 2015 BUDGET	FY 2015 ACTUALS & FCST	FY 2016 BUDGET
4110	REGULAR SALARIES	262,944	330,704	335,602	398,852
4120	OVERTIME	-	-	-	-
4130	MISC PAYROLL COSTS	-	-	-	-
	<b>TOTAL PERSONNEL SERVICES</b>	<b>262,944</b>	<b>330,704</b>	<b>335,602</b>	<b>398,852</b>
	<b>TOTAL POSITIONS</b>	<b>3</b>	<b>4</b>	<b>4</b>	<b>4</b>
4250	OTHER CONTRACTUAL SERVICE	12,390	300,000	252,400	150,000
4430	MISC SUPPLIES	987	3,000	520	1,200
4460	OTHER MATERIALS & SUPPLIE	208	-	5,660	3,600
4500	EDUCATION & TRAINING		1,600	-	1,600
4720	CONFERENCE EXPENSES	6,828	14,465	14,000	14,465
4910	MISC FEES & REGISTRATIONS	174	-	-	200
8050	EQUIPMENT UNDER \$5,000	2,442	-	500	15,000
	<b>TOTAL MATERIAL &amp; SUPPLIES</b>	<b>23,029</b>	<b>319,065</b>	<b>273,080</b>	<b>186,065</b>
1270	GENERAL PLANT & EQUIPMENT	-	-	200	-
	<b>TOTAL EQUIPMENT</b>	<b>-</b>	<b>-</b>	<b>200</b>	<b>-</b>
	<b>TOTAL OPERATING EXPENDITURES</b>	<b>285,973</b>	<b>649,769</b>	<b>608,882</b>	<b>584,917</b>

**Section's Activity**

The Application Systems Development Section is responsible for providing computer services in all commercial and business applications for the department including the customer information system, water and sewer billings, payroll, accounts payable and cost accounting systems.

**Materials, Supplies and Services**

4250     Consultant services for CIS support; printing and mailing services; Kronos enhancements

4251     Software licenses and maintenance support (Oracle JD Edwards, CC&B, IBM Maximo, Logica Mosaic. etc.)

**BOARD OF WATER SUPPLY  
OPERATING BUDGET  
FISCAL YEAR 2016**

**INFORMATION TECHNOLOGY DIVISION**  
5820 - Application Systems Development Branch

OBJECT ACCOUNT	OBJECT DESCRIPTION	FY 2014 ACTUALS	FY 2015 BUDGET	FY 2015 ACTUALS & FCST	FY 2016 BUDGET
4110	REGULAR SALARIES	602,705	906,768	598,349	978,804
4120	OVERTIME	190,629	273,488	175,091	222,000
4130	MISC PAYROLL COSTS	-	115,914	1,600	42,000
	<b>TOTAL PERSONNEL SERVICES</b>	<b>793,334</b>	<b>1,296,170</b>	<b>775,039</b>	<b>1,242,804</b>
	<b>TOTAL POSITIONS</b>	<b>9</b>	<b>16</b>	<b>9</b>	<b>16</b>
4160	MEALS, MILEAGE, UNIFORM A	304	15,540	70	3,600
4250	OTHER CONTRACTUAL SERVICE	666,991	200,000	834,200	3,000,800
4251	SOFTWARE LICENSES & MAINT.	-	893,100	415,600	980,700
4430	MISC SUPPLIES	360	1,200	600	1,200
4460	OTHER MATERIALS & SUPPLIE	35	-	400	-
4500	EDUCATION & TRAINING	-	60,120	10,000	60,000
4720	CONFERENCE EXPENSES	-	15,100	5,000	15,900
8050	EQUIPMENT UNDER \$5,000	-	-	-	-
	<b>TOTAL MATERIAL &amp; SUPPLIES</b>	<b>667,690</b>	<b>1,185,060</b>	<b>1,265,870</b>	<b>4,062,200</b>
1270	GENERAL PLANT & EQUIPMENT	-	-	-	-
	<b>TOTAL EQUIPMENT</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
	<b>TOTAL OPERATING EXPENDITURES</b>	<b>1,461,024</b>	<b>2,481,230</b>	<b>2,040,909</b>	<b>5,305,004</b>

**Section's Activity**

The Operations Support Section is responsible for planning, scheduling, administrating and coordinating the department's computer services operations (machine processing).

**Materials, Supplies and Services**

- 4250 Contract services for wireless and camera maintenance; voice and data lines; Microsoft product support
- 4251 Microsoft Product Support, Cisco ISE and Prime, etc
- 4480 Postage for monthly water bills
- 4815 Maintenance and service agreements for computer hardware and software.

**BOARD OF WATER SUPPLY  
ANNUAL BUDGET  
FISCAL YEAR 2016**

**INFORMATION TECHNOLOGY DIVISION**  
5830 - Operations Support Branch

OBJECT ACCOUNT	OBJECT DESCRIPTION	FY 2014 ACTUALS	FY 2015 BUDGET	FY 2015 ACTUALS & FCST	FY 2016 BUDGET
4110	REGULAR SALARIES	751,969	1,338,084	916,833	1,465,776
4120	OVERTIME	45,340	39,999	10,540	54,000
4130	MISC PAYROLL COSTS	-	37,980	-	-
	<b>TOTAL PERSONNEL SERVICES</b>	<b>797,309</b>	<b>1,416,063</b>	<b>927,373</b>	<b>1,519,776</b>
	<b>TOTAL POSITIONS</b>	<b>14</b>	<b>22</b>	<b>16</b>	<b>23</b>
4160	MEALS, MILEAGE, UNIFORM A	365	-	40	-
4250	OTHER CONTRACTUAL SERVICE	1,135,985	2,159,010	1,776,100	1,807,500
4251	SOFTWARE LICENSES & MAINT.	-	661,362	704,228	599,100
4430	MISC SUPPLIES	222	3,000	2,250	3,600
4460	OTHER MATERIALS & SUPPLIE	80,796	84,950	86,700	104,400
4470	PARTS AND ACCESSORIES	158	5,000	19,700	13,200
4480	POSTAGE	1,165,000	1,180,008	960,100	1,120,800
4500	EDUCATION & TRAINING	21,909	63,000	44,524	69,300
4650	SECURITY CAMERA CABLE LIN	64,089	60,396	60,000	-
4720	CONFERENCE EXPENSES	6,139	-	2,000	-
4805	REPAIR AND MAINT OF STRUC	610	-	-	-
4815	REPAIR AND MAINT OF EQUIP	801,000	204,099	160,001	197,700
8050	EQUIPMENT UNDER \$5,000	191,000	373,134	505,500	361,300
	<b>TOTAL MATERIAL &amp; SUPPLIES</b>	<b>3,467,273</b>	<b>4,793,959</b>	<b>4,321,143</b>	<b>4,276,900</b>
1270	GENERAL PLANT & EQUIPMENT	432,000	719,998	441,900	414,900
	<b>TOTAL EQUIPMENT</b>	<b>432,000</b>	<b>719,998</b>	<b>441,900</b>	<b>414,900</b>
	<b>TOTAL OPERATING EXPENDITURES</b>	<b>4,696,582</b>	<b>6,930,020</b>	<b>5,690,416</b>	<b>6,211,576</b>

**Section's Activity**

The Technical Engineering Projects Section is responsible for providing computer services in engineering applications covering all branches of engineering such as civil, structural, hydraulics, and surveying earthwork; GIS; and other technical operational applications.

**Materials, Supplies and Services**

- 4250 GIS consulting services; hydraulic modeling technical support; GIS web application maintenance.
- 4251 ESRI software licenses and support maintenance.

**BOARD OF WATER SUPPLY  
OPERATING BUDGET  
FISCAL YEAR 2016**

**INFORMATION TECHNOLOGY DIVISION**  
5835 - Technical Engineering Projects Branch

OBJECT ACCOUNT	OBJECT DESCRIPTION	FY 2014 ACTUALS	FY 2015 BUDGET	FY 2015 ACTUALS & FCST	FY 2016 BUDGET
4110	REGULAR SALARIES	527,000	654,990	559,604	681,960
4120	OVERTIME	-	9,600	346	3,600
4130	MISC PAYROLL COSTS	-	21,272	-	20,772
	<b>TOTAL PERSONNEL SERVICES</b>	<b>527,000</b>	<b>685,862</b>	<b>559,951</b>	<b>706,332</b>
	<b>TOTAL POSITIONS</b>	<b>9</b>	<b>12</b>	<b>9</b>	<b>11</b>
4160	MEALS, MILEAGE, UNIFORM A	30	-	-	-
4250	OTHER CONTRACTUAL SERVICE	175,127	474,000	415,000	550,000
4251	SOFTWARE LICENSES & MAINT.	-	178,750	156,975	233,550
4430	MISC SUPPLIES	358	500	347	500
4460	OTHER MATERIALS & SUPPLIE	572	410	969	1,210
4480	POSTAGE	-	200	-	-
4500	EDUCATION & TRAINING	40	6,500	6,500	8,500
4720	CONFERENCE EXPENSES	9,000	26,750	9,600	26,750
4815	REPAIR AND MAINT OF EQUIP	123	800	500	6,800
8050	EQUIPMENT UNDER \$5,000	9,274	8,300	-	7,100
	<b>TOTAL MATERIAL &amp; SUPPLIES</b>	<b>194,524</b>	<b>696,210</b>	<b>589,891</b>	<b>839,410</b>
1270	GENERAL PLANT & EQUIPMENT	16,981	11,000	-	-
	<b>TOTAL EQUIPMENT</b>	<b>16,981</b>	<b>11,000</b>	<b>-</b>	<b>-</b>
	<b>TOTAL OPERATING EXPENDITURES</b>	<b>738,505</b>	<b>1,393,072</b>	<b>1,149,842</b>	<b>1,545,742</b>

**Division'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.

Details of expenditures are shown in each section.

**BOARD OF WATER SUPPLY  
OPERATING BUDGET  
FISCAL YEAR 2016**

**FINANCE DIVISION - TOTAL**

OBJECT ACCOUNT	OBJECT DESCRIPTION	FY 2014 ACTUALS	FY 2015 BUDGET	FY 2015 ACTUALS & FCST.	FY 2016 BUDGET
4110	REGULAR SALARIES	2,289,209	2,778,128	2,325,346	2,661,888
4120	OVERTIME	248,689	274,326	148,703	271,900
4130	MISC PAYROLL COSTS	6,301	35,000	-	40,821
	<b>TOTAL PERSONNEL SERVICES</b>	<b>2,544,200</b>	<b>3,087,454</b>	<b>2,474,048</b>	<b>2,974,609</b>
	<b>TOTAL POSITIONS</b>	<b>58</b>	<b>66</b>	<b>51</b>	<b>56</b>
4160	MEALS, MILEAGE, UNIFORM A	17,420	8,900	9,000	7,500
4220	COLLECTION FEES	427	-	-	-
4250	OTHER CONTRACTUAL SERVICE	7,850	14,400	143,400	7,000
4260	ADV & PUBL OF NOTICES	259	1,200	-	1,000
4267	PRINTED FORMS	698	4,300	6,000	4,000
4270	PROFESSIONAL SERVICES	740,564	1,224,900	165,400	1,189,800
4430	MISC SUPPLIES	10,005	17,000	9,000	7,500
4460	OTHER MATERIALS & SUPPLIE	18,824	6,000	10,000	4,000
4480	POSTAGE	12,733	20,000	16,500	17,000
4500	EDUCATION & TRAINING	-	18,000	3,000	12,250
4720	CONFERENCE EXPENSES	703	-	7,200	3,200
4815	REPAIR AND MAINT OF EQUIP	2,814	13,500	1,500	2,500
4910	MISC FEES & REGISTRATIONS	5,331	3,000	11,000	4,000
4915	MISCELLANEOUS FINANCIAL E	2,104,460	855,600	1,978,500	1,276,500
8050	EQUIPMENT UNDER \$5,000	16,998	16,000	4,000	29,450
	<b>TOTAL MATERIAL &amp; SUPPLIES</b>	<b>2,939,399</b>	<b>2,202,800</b>	<b>2,364,500</b>	<b>2,565,700</b>
1270	GENERAL PLANT & EQUIPMENT	35,000	85,000	18,000	35,000
	<b>TOTAL EQUIPMENT</b>	<b>35,000</b>	<b>85,000</b>	<b>18,000</b>	<b>35,000</b>
	<b>TOTAL OPERATING EXPENDITURES</b>	<b>5,518,599</b>	<b>5,375,254</b>	<b>4,856,548</b>	<b>5,575,309</b>

**Section's Activity**

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

**Materials, Supplies and Services**

4270 Annual financial audit; bond compliance services

**BOARD OF WATER SUPPLY  
OPERATING BUDGET  
FISCAL YEAR 2016**

**FINANCE DIVISION**  
5900 - Administration

OBJECT ACCOUNT	OBJECT DESCRIPTION	FY 2014 ACTUALS	FY 2015 BUDGET	FY 2015 ACTUALS & FCST.	FY 2016 BUDGET
4110	REGULAR SALARIES	342,321	264,276	391,932	326,100
4120	OVERTIME	-	1,000	-	-
4130	MISC PAYROLL COSTS	3,142	-	-	-
	<b>TOTAL PERSONNEL SERVICES</b>	<b>345,463</b>	<b>265,276</b>	<b>391,932</b>	<b>326,100</b>
	<b>TOTAL POSITIONS</b>	<b>4</b>	<b>3</b>	<b>5</b>	<b>4</b>
4250	OTHER CONTRACTUAL SERVICE	693	2,400	1,000	1,000
4260	ADV & PUBL OF NOTICES	259	1,200	-	1,000
4267	PRINTED FORMS	162	1,800	-	-
4270	PROFESSIONAL SERVICES	-	165,400	165,400	331,800
4430	MISC SUPPLIES	8,482	14,400	9,000	6,000
4460	OTHER MATERIALS & SUPPLIE	23	-	-	-
4480	POSTAGE	1,669	-	1,500	2,000
4500	EDUCATION & TRAINING	-	12,000	2,000	2,000
4720	CONFERENCE EXPENSES	703	-	7,200	3,200
4815	REPAIR AND MAINT OF EQUIP	199	3,000	-	1,000
4910	MISC FEES & REGISTRATIONS	5,331	2,700	4,000	4,000
8050	EQUIPMENT UNDER \$5,000	657	6,500	2,000	1,000
	<b>TOTAL MATERIAL &amp; SUPPLIES</b>	<b>18,178</b>	<b>209,400</b>	<b>192,100</b>	<b>353,000</b>
1270	GENERAL PLANT & EQUIPMENT	-	-	-	-
	<b>TOTAL EQUIPMENT</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
	<b>TOTAL OPERATING EXPENDITURES</b>	<b>363,641</b>	<b>474,676</b>	<b>584,032</b>	<b>679,100</b>

**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.

**Materials, Supplies and Services**

4270 Investment advisor fees.

4915 Bond administration fees, escrow agent fees and SRF loan administrative fees.

**BOARD OF WATER SUPPLY  
OPERATING BUDGET  
FISCAL YEAR 2016**

**FINANCE DIVISION**  
5910 - Treasury Branch

OBJECT ACCOUNT	OBJECT DESCRIPTION	FY 2014 ACTUALS	FY 2015 BUDGET	FY 2015 ACTUALS & FCST.	FY 2016 BUDGET
4110	REGULAR SALARIES	85,429	138,240	100,953	149,712
4120	OVERTIME	16,796	5,326	10,251	10,800
4130	MISC PAYROLL COSTS	-	-	-	-
	<b>TOTAL PERSONNEL SERVICES</b>	<b>102,225</b>	<b>143,566</b>	<b>111,204</b>	<b>160,512</b>
	<b>TOTAL POSITIONS</b>	<b>1</b>	<b>2</b>	<b>1</b>	<b>2</b>
4160	MEALS, MILEAGE, UNIFORM A	745	500	500	500
4270	PROFESSIONAL SERVICES	740,564	1,059,500	-	858,000
4430	MISC SUPPLIES	-	100	-	-
4910	MISC FEES & REGISTRATIONS	-	300	-	-
4915	MISCELLANEOUS FINANCIAL E	2,104,460	855,600	1,977,000	1,255,000
8050	EQUIPMENT UNDER \$5,000	-	2,250	-	-
	<b>TOTAL MATERIAL &amp; SUPPLIES</b>	<b>2,845,769</b>	<b>1,918,250</b>	<b>1,977,500</b>	<b>2,113,500</b>
1270	GENERAL PLANT & EQUIPMENT	-	-	-	-
	<b>TOTAL EQUIPMENT</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
	<b>TOTAL OPERATING EXPENDITURES</b>	<b>2,947,994</b>	<b>2,061,816</b>	<b>2,088,704</b>	<b>2,274,012</b>

**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.

**Materials, Supplies and Services**

4480      postage for departmental correspondence

**BOARD OF WATER SUPPLY  
OPERATI BUDGET  
FISCAL YEAR 2016**

**FINANCE DIVISION**

Treasury Branch

5915 - Revenue & Customer Accounting Section (5380)

OBJECT ACCOUNT	OBJECT DESCRIPTION	FY 2014 ACTUALS	FY 2015 BUDGET	FY 2015 ACTUALS & FCST.	FY 2016 BUDGET
4110	REGULAR SALARIES	1,147,156	1,478,460	1,171,925	1,279,524
4120	OVERTIME	210,190	245,000	131,904	245,000
4130	MISC PAYROLL COSTS	2,310	35,000	-	15,988
	<b>TOTAL PERSONNEL SERVICES</b>	<b>1,359,656</b>	<b>1,758,460</b>	<b>1,303,829</b>	<b>1,540,512</b>
	<b>TOTAL POSITIONS</b>	<b>40</b>	<b>44</b>	<b>34</b>	<b>34</b>
4160	MEALS, MILEAGE, UNIFORM A	15,733	7,200	8,000	6,000
4250	OTHER CONTRACTUAL SERVICE	7,157	12,000	142,400	6,000
4430	MISC SUPPLIES	1,523	2,000	-	1,000
4440	MOTOR VEHICLE PARTS & ACC	313	-	-	-
4460	OTHER MATERIALS & SUPPLIE	4,829	6,000	4,000	4,000
4470	PARTS AND ACCESSORIES	-	-	-	-
4480	POSTAGE	11,060	20,000	15,000	15,000
4500	EDUCATION & TRAINING	-	5,000	-	1,000
4815	REPAIR AND MAINT OF EQUIP	1,824	10,000	1,000	1,000
4910	MISC FEES & REGISTRATIONS	-	-	-	-
8050	EQUIPMENT UNDER \$5,000	12,778	3,250	-	23,500
	<b>TOTAL MATERIAL &amp; SUPPLIES</b>	<b>55,217</b>	<b>65,450</b>	<b>170,400</b>	<b>57,500</b>
1270	GENERAL PLANT & EQUIPMENT	35,000	85,000	18,000	35,000
	<b>TOTAL EQUIPMENT</b>	<b>35,000</b>	<b>85,000</b>	<b>18,000</b>	<b>35,000</b>
	<b>TOTAL OPERATING EXPENDITURES</b>	<b>1,449,873</b>	<b>1,908,910</b>	<b>1,492,229</b>	<b>1,633,012</b>

**Section's Activity**

The Financial Planning, Consulting, and Analysis Section performs technical reviews to analyze, develop, and evaluate procedures and controls for budget, financial and management accounting systems and directs their implementation; and directs the development and maintenance of financial policies and procedures, accounting manuals, instructions and procedural guides.

**BOARD OF WATER SUPPLY  
OPERATING BUDGET  
FISCAL YEAR 2016**

**FINANCE DIVISION**

5920 - Financial Planning, Consulting & Analysis

<b>OBJECT ACCOUNT</b>	<b>OBJECT DESCRIPTION</b>	<b>FY 2014 ACTUALS</b>	<b>FY 2015 BUDGET</b>	<b>FY 2015 ACTUALS &amp; FCST.</b>	<b>FY 2016 BUDGET</b>
4110	REGULAR SALARIES	84,955	-	-	-
4120	OVERTIME	10,140	-	-	-
4130	MISC PAYROLL COSTS	-	-	-	-
	<b>TOTAL PERSONNEL SERVICES</b>	<b>95,096</b>	<b>-</b>	<b>-</b>	<b>-</b>
	<b>TOTAL POSITIONS</b>	<b>1</b>	<b>-</b>	<b>-</b>	<b>-</b>
4160	MEALS, MILEAGE, UNIFORM A	276	-	-	-
4250	OTHER CONTRACTUAL SERVICE	-	-	-	-
4251	SOFTWARE LICENSES & MAINT.	-	-	-	-
4255	OTHER SERVICES	-	-	-	-
8050	EQUIPMENT UNDER \$5,000	-	-	-	-
	<b>TOTAL MATERIAL &amp; SUPPLIES</b>	<b>276</b>	<b>-</b>	<b>-</b>	<b>-</b>
1270	GENERAL PLANT & EQUIPMENT	-	-	-	-
	<b>TOTAL EQUIPMENT</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
	<b>TOTAL OPERATING EXPENDITURES</b>	<b>95,372</b>	<b>-</b>	<b>-</b>	<b>-</b>

**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.

**Materials, Supplies and Services**

4267 . payroll tax forms

**BOARD OF WATER SUPPLY  
OPERATING BUDGET  
FISCAL YEAR 2016**

**FINANCE DIVISION**

5930 - General Accounting

OBJECT ACCOUNT	OBJECT DESCRIPTION	FY 2014 ACTUALS	FY 2015 BUDGET	FY 2015 ACTUALS & FCST.	FY 2016 BUDGET
4110	REGULAR SALARIES	499,403	568,572	501,840	641,160
4120	OVERTIME	11,310	23,000	6,548	16,100
4130	MISC PAYROLL COSTS	849	-	-	24,833
	<b>TOTAL PERSONNEL SERVICES</b>	<b>511,562</b>	<b>591,572</b>	<b>508,388</b>	<b>682,093</b>
	<b>TOTAL POSITIONS</b>	<b>10</b>	<b>11</b>	<b>9</b>	<b>11</b>
4160	MEALS, MILEAGE, UNIFORM A	630	1,200	500	1,000
4220	COLLECTION FEES	427	-	-	-
4267	PRINTED FORMS	536	2,500	6,000	4,000
4430	MISC SUPPLIES	-	500	-	500
4460	OTHER MATERIALS & SUPPLIE	380	-	-	-
4480	POSTAGE	4	-	-	-
4500	EDUCATION & TRAINING	-	1,000	1,000	1,000
4815	REPAIR AND MAINT OF EQUIP	791	500	500	500
8050	EQUIPMENT UNDER \$5,000	3,563	1,000	2,000	4,950
	<b>TOTAL MATERIAL &amp; SUPPLIES</b>	<b>6,331</b>	<b>6,700</b>	<b>11,500</b>	<b>33,450</b>
1270	GENERAL PLANT & EQUIPMENT	-	-	-	-
	<b>TOTAL EQUIPMENT</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
	<b>TOTAL OPERATING EXPENDITURES</b>	<b>517,893</b>	<b>598,272</b>	<b>519,888</b>	<b>715,543</b>

**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.

**BOARD OF WATER SUPPLY  
OPERATING BUDGET  
FISCAL YEAR 2016**

**FINANCE DIVISION**

5940 - Fiscal Services

OBJECT ACCOUNT	OBJECT DESCRIPTION	FY 2014 ACTUALS	FY 2015 BUDGET	FY 2015 ACTUALS & FCST.	FY 2016 BUDGET
4110	REGULAR SALARIES	129,945	284,820	149,801	209,628
4120	OVERTIME	253	-	-	-
4130	MISC PAYROLL COSTS	-	-	-	-
	<b>TOTAL PERSONNEL SERVICES</b>	<b>130,198</b>	<b>284,820</b>	<b>149,801</b>	<b>209,628</b>
	<b>TOTAL POSITIONS</b>	<b>2</b>	<b>5</b>	<b>3</b>	<b>4</b>
4160	MEALS, MILEAGE, UNIFORM A	36	-	-	-
4250	OTHER CONTRACTUAL SERVICE	-	-	-	-
4460	OTHER MATERIALS & SUPPLIE	13,592	-	6,000	-
4500	EDUCATION & TRAINING	-	-	-	-
4910	MISC FEES & REGISTRATIONS	-	-	7,000	-
8050	EQUIPMENT UNDER \$5,000	-	3,000	-	-
	<b>TOTAL MATERIAL &amp; SUPPLIES</b>	<b>13,628</b>	<b>3,000</b>	<b>13,000</b>	<b>-</b>
1270	GENERAL PLANT & EQUIPMENT	-	-	-	-
	<b>TOTAL EQUIPMENT</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
	<b>TOTAL OPERATING EXPENDITURES</b>	<b>143,826</b>	<b>287,820</b>	<b>162,801</b>	<b>209,628</b>

**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.

**BOARD OF WATER SUPPLY  
OPERATING BUDGET  
FISCAL YEAR 2016**

**FINANCE DIVISION**

5950 - Systems Accounting

<b>OBJECT ACCOUNT</b>	<b>OBJECT DESCRIPTION</b>	<b>FY 2014 ACTUALS</b>	<b>FY 2015 BUDGET</b>	<b>FY 2015 ACTUALS &amp; FCST.</b>	<b>FY 2016 BUDGET</b>
4110	REGULAR SALARIES	-	43,760	8,894	55,764
4120	OVERTIME	-	-	-	-
4130	MISC PAYROLL COSTS	-	-	-	-
	<b>TOTAL PERSONNEL SERVICES</b>	-	<b>43,760</b>	<b>8,894</b>	<b>55,764</b>
	<b>TOTAL POSITIONS</b>	-	<b>1</b>	<b>0</b>	<b>1</b>
4160	MEALS, MILEAGE, UNIFORM A	-	-	-	-
4460	OTHER MATERIALS & SUPPLIE	-	-	-	-
4500	EDUCATION & TRAINING	-	-	-	8,250
4720	CONFERENCE EXPENSES	-	-	-	-
8050	EQUIPMENT UNDER \$5,000	-	-	-	-
	<b>TOTAL MATERIAL &amp; SUPPLIES</b>	-	-	-	<b>8,250</b>
1270	GENERAL PLANT & EQUIPMENT			-	-
	<b>TOTAL EQUIPMENT</b>	-	-	-	-
	<b>TOTAL OPERATING EXPENDITURES</b>	-	<b>43,760</b>	<b>8,894</b>	<b>64,014</b>



## PART II

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# CAPITAL IMPROVEMENT PROGRAM BUDGET

Board of Water Supply  
Capital Improvement Program Budget  
FY 2016

Summary by Project and Cost Categories		Operating Fund	Special Expendable Fund	State Revolving Fund	Reserve Release Fund	Total
<hr/>						
I. Research and Development	Total	<u>2,400,000</u>	<u>-</u>	<u>500,000</u>	<u>-</u>	<u>2,900,000</u>
II. Renewal and Replacement						
A. Pumps		13,721,790	-	-	2,978,210	16,700,000
B. Reservoirs		-	-	-	-	-
C. Pipelines		10,040,000	-	6,600,000	-	16,640,000
D. Treatment		-	-	-	-	-
E. Facilities		<u>18,015,000</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>18,015,000</u>
	Total	<u>41,776,790</u>	<u>-</u>	<u>6,600,000</u>	<u>2,978,210</u>	<u>51,355,000</u>
III. Capacity Expansion						
A. Pumps		-	3,350,000	-	-	3,350,000
B. Reservoirs		-	-	-	-	-
C. Pipelines		-	-	-	-	-
D. Treatment		600,000	-	-	-	600,000
E. Facilities		<u>4,475,000</u>	<u>-</u>	<u>7,000,000</u>	<u>-</u>	<u>11,475,000</u>
	Total	<u>5,075,000</u>	<u>3,350,000</u>	<u>7,000,000</u>	<u>-</u>	<u>15,425,000</u>
Total - Categories I - III		49,251,790	3,350,000	14,100,000	2,978,210	69,680,000
Construction Cost Index Adjustment		3,477,500	300,000	1,410,000	-	5,187,500
Contract Adjustment Account		8,800,000	-	-	-	8,800,000
FY 2016 Capital Improvement Program		<u>61,529,290</u>	<u>3,650,000</u>	<u>15,510,000</u>	<u>2,978,210</u>	<u>83,667,500</u>

Board of Water Supply  
Capital Improvement Program Budget  
FY 2016

Item No.	Project Title	Description	Type	Operating Fund	Special Expendable Fund	State Revolving Fund	Reserve Release Fund	Total
<b>I. Research and Development</b>								
1.	Energy Savings Performance Contracting (ESPC) - BWS Facilities	Implement an ESPC project on BWS facilities with a goal of reducing energy demand by 20%	Const	-	-	500,000	-	500,000
2.	Red Hill Groundwater Monitoring Wells	Construct monitor wells surrounding the Navy Red Hill Underground Fuel Storage Facility to monitor the movement of fuel constituents toward BWS drinking water wells and provide hydrologic data that will inform groundwater modeling	Const	400,000				400,000
3.	Construction Management For Various BWS Construction Projects	Provide construction management and training services for selected BWS construction projects	P&E	1,000,000				1,000,000
4.	Beretania Site Master Plan	Prepare a master plan for the future redevelopment of the BWS Beretania property	P&E	500,000				500,000
5.	Haiku Stairs Removal	Prepare preliminary engineering study, environmental assessment and a CDUP application for the removal of the stairs	P&E	500,000				500,000
<b>Total Category I - Research and Development</b>				<b>2,400,000</b>	<b>-</b>	<b>500,000</b>	<b>-</b>	<b>2,900,000</b>

Board of Water Supply  
Capital Improvement Program Budget  
FY 2016

Item No.	Project Title	Description	Type	Operating Fund	Special Expendable Fund	State Revolving Fund	Reserve Release Fund	Total
<b>II. Renewal and Replacement</b>								
<b>A. Pumps</b>								
6.	Pump Renewal and Replacement	Renewal and replacement of various BWS pumps and plant facilities.	Const	1,500,000				1,500,000
7.	Keanu Line Booster: Replace Pumping Units	Replace all three (3) existing pump units including pumps, motors, discharge head assemblies, valves, flow tube, and all above-ground piping and components. The construction work will be properly sequenced to maintain two (2) pumps in service at all times. Replace center-guided check valves with new tilting-disc check valves. Install mute structure if feasible. Replace/relocate MCC from existing weather-proof enclosures and install new into existing pump building; remove existing equipment from existing pump building. Install new solid-state soft-	Const	1,850,000				1,850,000
8.	Wahiawa Wells Unit 3 Rehabilitation	Rehabilitate well unit 3 by extending existing well casing (drill and clear existing bore, drill additional 100 feet, install steel casing, transition casing and video log)	Const	375,000				375,000
9.	Barbers Point Line Booster Improvements	Replace pumps and motors, discharge piping and valves, MCC, wiring and appurtenances	Const	21,790			2,978,210	3,000,000
10.	Kalihi Pump Station Low and High Service Renovation	Replace pumps, motors, discharge piping, valves, MCC, wiring and chlorinator	Const	9,475,000				9,475,000
11.	Pump Renewal and Replacement	Renewal and replacement of various BWS pumps and plant facilities.	P&E	500,000				500,000
<b>A. Pumps - Total</b>				<b>13,721,790</b>	<b>-</b>	<b>-</b>	<b>2,978,210</b>	<b>16,700,000</b>

Board of Water Supply  
Capital Improvement Program Budget  
FY 2016

Item No.	Project Title	Description	Type	Operating Fund	Special Expendable Fund	State Revolving Fund	Reserve Release Fund	Total
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**B. Reservoirs**

**B. Reservoirs - Total**

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**C. Pipelines**

12. Anoi Road Water System Improvements	Install 8-inch main and appurtenances along Anoi Road from end to end; along Kealahala Road from Kamehameha Highway to Kealahala Place, along Kamehameha Highway from Kahuhipa Street to Keole Street and along Luana Place from Paleka Road to end - approx. 5,850 lin. ft.	Const		6,600,000		6,600,000
13. Mailili Road 20-Inch Main	Rehabilitation of 20-inch main along Mailili Road from Paakes Road to Luualae Homestead Road - approx. 3,700 lin. ft.	Const	2,000,000			2,000,000
14. Fire Hydrant Installations at Various Locations	Fire hydrant installations at various locations.	Const	300,000			300,000
15. Water Main Installation & Replacement	Install and replace water mains at various locations	Const	100,000			100,000

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Item No.	Project Title	Description	Type	Operating Fund	Special Expendable Fund	State Revolving Fund	Reserve Release Fund	Total
16.	Makakilo Water System Improvements, Part III	Install 8-inch mains and appurtenances along Nohopono Street from Lihau Street to Palailai Street, along Nohopaa Street from Lihau Street to Palailai Street, along Nohona Street from Lihau Street to Palailai Street, along Nenelea Street from Lihau Street to Palailai Street, along Newa Street from Makakilo Drive to Palailai Street, along Newa Place from Newa Street to end, along Lihau Street from Palailai Street to Newa Street, along Palailai Street from Nohona Street to Nohohale Street, along Nohohale Street from Palailai Street to Makakilo Drive, along Mehani Street from Akaula Street to Auwaea Street, along Mehani Place from Mehani Street to End, along Makakilo Drive from Tee near FH L02483 to Anipeahi Street and along Makakilo Drive from Tee near FH L01849 to 80' beyond FH L01850 - approx. 10,890 lin. ft. Install 4-inch mains and appurtenances along Nohohale Street from Makakilo Drive to Palailai Place - approx. 845 lin. ft.	P&E	850,000				850,000

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FY 2016

Item No.	Project Title	Description	Type	Operating Fund	Special Expendable Fund	State Revolving Fund	Reserve Release Fund	Total
17.	Kalihi Water System Improvements, Part VI	Install 12-inch mains and appurtenance along Gulick Avenue from King Street to School Street - approx. 2,940 lin. ft. Install 8-inch mains and appurtenances along Gulick Avenue from N. School Street to 66' S/W of Puuaka Lane, along Ulana Street from Owawa Street to 76' S/E of FH-M7178, along Uhu Street from Gulick Avenue to end, along Kealoha Street from Gulick Avenue to Nakuina Street, along Pahukui Street from Gulick Avenue to Nakuina Street, along Nakuina Street from Kealoha Street to Beckley Street, along Beckley Street from Gulick Avenue to Kalihi Street, along Kalihi Street from King Street to end of 6" near FH M2379, along Kaili Street from King Street to Beckley Street, along Kopke Street from King Street to Pacheco Street and along Pacheco Street from Kopke Street to Gulick Avenue - approx. 7,480 lin. ft. Install 4-inch mains and appurtenance along Beckley Place from Beckley Street to end, along Day Place from Kalihi Street to end and along Ulana Place from Ulana Street to end - approx. 575 lin. ft. Install 2-inch mains and appurtenances along	P&E	940,000				940,000
18.	Haleahi and Paheehoe Road 12-Inch and 8-Inch Mains	Install 12-inch mains and appurtenances along Haleahi Road from the existing check valves to TMK 8-5-004:126 - approx. 1,135 lin. ft. Install 8-inch mains and appurtenances along Haleahi Road from TMK 8-5-004:126 to Paheehoe Road and along Paheehoe Road from Puhawai Street to Haleahi Road - approx. 6,910 lin. ft.	P&E	550,000				550,000
19.	Wai'au Water System Improvements, Part II	Install 12-inch mains and appurtenances along the private lanes within Hillside Subdivisions I and II - approx. 1,900 lin. ft. Install 8-inch mains and appurtenances along the private lanes within Hillside Subdivisions I to IV - approx. 1,235 lin. ft.	P&E	240,000				240,000

Board of Water Supply  
Capital Improvement Program Budget  
FY 2016

Item No.	Project Title	Description	Type	Operating Fund	Special Expendable Fund	State Revolving Fund	Reserve Release Fund	Total
20.	North School Street Water System Improvements	Install 16-inch mains and appurtenance along N. School Street from Kam IV Road to Houghtailing Street - approx. 4,510 lin. ft. Install 8-inch mains and appurtenances along Ahonui Street from N. School Street to Linapuni Street, along Hulali Place from Ahonui Street to end, along N. School Street from Amelia Street to Leilani Street, along N. School Street from Likelike Highway to Houghtailing Street, along Amelia Street from N. School Street to Waikoe Road, along Waikoe Road from Amelia Street to Martin Street, along Martin Street from N. School Street to Waikoe Road - approx. 5,920 lin. ft.	P&E	840,000				840,000
21.	Pearl City Water System Improvements, Part IV	Install 12-inch mains and appurtenances along Huikahi Street from Hoolehua Street to Hoolaulea Street - approx. 940 lin. ft. Install 8-inch mains and appurtenances along Palamoi Street from Kuahaka Street to end of 8" main near FH L02004, along Panee Street from Palamoi Street to Kaweloka Street, along Kaweloka Street from Panee Street to Palamoi Street, along Kalauipo Street from Kaweloka Street to Palamoi Street, along Kalauipo Place from Kalauipo Street to end, along Kalai Place from Kalauipo Street to end, along Maiha Circle from Waimano Home Road to end, along Maiha Place from Maiha Circle to end, along Hooihohoi Street from Hoomoana Street to end, along Hooihohoi Place from Hooihohoi Street to end, along Hoowae Street from Hooihohoi Street to Hooelele Street, along Hoomalolo Street from Hoomoana Street to Hoolaulea Street, along Hooelele Street from Hoolaulea Street to Hoomalolo Street, along Hoomoana Street from Komo Mai Drive to Hookeikei Street, along Komo Mai Drive from Hoolehua Street to Hoolaulea Street and along	P&E	1,250,000				1,250,000

Board of Water Supply  
Capital Improvement Program Budget  
FY 2016

Item No.	Project Title	Description	Type	Operating Fund	Special Expendable Fund	State Revolving Fund	Reserve Release Fund	Total
22.	Keolu Hills Water System Improvements, Part II	Install 12-inch mains and appurtenances along Keolu Drive from Akumu Street to Nanialii Street, along Akumu Street from Keolu Drive to Alahaki Street, along Iana Street from Keolu Drive to FH W00766, and along Keolu Drive from Kanapuu Drive to Akalani Loop - approx. 3,580 lin. ft. Install 8-inch mains and appurtenances along Akumu Street from Alahaki Street to Holoholo Street, along Keolu Drive from Akalani Loop to Akahai Street, along Akahai Street from Keolu Drive to Akamai Street, along Akaiki Street from Akahai Street to Akamai Street and along Halula Place from Akumu Street to end - approx. 4,265 lin. ft. Install 4-inch mains and appurtenances along Akumu Place from Akumu Street to end, along Akiu Place from Akumu Street to end and along Akalei Place from Akumu Street to end - approx. 540 lin. ft.	P&E	620,000				620,000
23.	Lanakila Water System Improvements	Install 8-inch mains and appurtenances along Palama Street from Panalaua Street to N. School Street, along Alaneo Street from N. School Street to Kuakini Street, along Lanakila Avenue from N. School Street to Kunawai Lane, along N. Judd Street from Kunawai Lane to Apio Lane, and along Kamaka Lane from Lanakila Avenue to Kunawai Lane - approx. 7,100 lin. ft.	P&E	530,000				530,000
24.	Pauoa Water System Improvements	Install 8-inch mains and appurtenances along Lusitana Street from Pauoa Road to Concordia Street, along Auwaiolimu Street from Lusitana Street to Tantalus Drive, along Kanealii Avenue from Pauoa Road to Kapalu Street, along Boyd Lane from Lusitana Street to end, and along Kapaloala Place from FH M06992 to Pauoa Road - approx. 8,100 lin. ft. Transfer services along Ohelo Lane from Lusitana Street to end to the 405 system.	P&E	600,000				600,000

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Item No.	Project Title	Description	Type	Operating Fund	Special Expendable Fund	State Revolving Fund	Reserve Release Fund	Total
25.	Ala Aolani 12-inch Main	Install 12-inch mains and appurtenances along Ala Aolani Street from the 16-inch cross country main to Ala Aolua Loop - approx. 4,300 lin. ft. Install 8-inch mains and appurtenances along Ala Aolua Loop from Ala Aolani Street to Ala Aolani Street, along Ala Mahina Place from Ala Aolua Loop to end, and along Ala Makani Place from Ala Aolua Loop to end - approx. 2,930 lin. ft. Install 4-inch mains and appurtenances along Ala Aolua Place from Ala Aolua Loop to end, along Ala Makani Way from Ala Aolua Loop to end, and along two unnamed places from Ala Aolua Loop to end - approx. 420 lin. ft.	P&E	570,000				570,000
26.	Fire Hydrant Installations at Various Locations	Fire hydrant installations at various locations.	P&E	400,000				400,000
27.	Water Main Installation & Replacement	Install and replace water mains at various locations.	P&E	100,000				100,000
28.	Service Lateral Replacement at Various Locations	Replace plastic service laterals at various location	P&E	150,000				150,000
C. Pipelines - Total				10,040,000	-	6,500,000	-	16,540,000

Board of Water Supply  
Capital Improvement Program Budget  
FY 2016

Item No.	Project Title	Description	Type	Operating Fund	Special Expendable Fund	State Revolving Fund	Reserve Release Fund	Total
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**D. Treatment**

**D. Treatment - Total**

-	-	-	-	-
-	-	-	-	-

**E. Facilities**

29. Facility Repair and Renovation	Repair, renovation, reroofing, fencing and repainting of selected BWS facilities.	Const	3,000,000	-	-	-	3,000,000
30. Storm Water Management Plan Improvements	Install improvements to eliminate pollutant runoff from BWS corporation yards	Const	500,000	-	-	-	500,000
31. Security Fencing at Various Locations	Install expanded metal fencing at selected BWS facilities.	Const	600,000	-	-	-	600,000
32. Emergency Generator Project	Install permanent emergency generators and harden pump appurtenances at selected BWS sources	Const	7,200,000	-	-	-	7,200,000
33. Mauna Olu 530 Reservoir Improvements	Install staff gauge, water level transducer and datalogger, telemetry equipment and controls, and appurtenant utilities	P&E	50,000	-	-	-	50,000
34. Computerized Maintenance Management System	Plan, Design and Implement Enhancements to accommodate WSO operations.	P&E	2,375,000	-	-	-	2,375,000
35. Future Meter Reading Technology	Evaluate various meter reading technologies	P&E	300,000	-	-	-	300,000
36. Waimanalo Tunnels I and II and Waianae Plantation Tunnel III Renovation	Investigate and assess tunnel conditions and prepare plans and specifications for improvements needed to reactivate tunnels	P&E	300,000	-	-	-	300,000
37. Naliu Enhancement	Modify/Enhance financial accounting system software to address functional requirement for Finance, Procurement, etc., as was previously identified during the JDE Upgrade project.	P&E	1,640,000	-	-	-	1,640,000
38. Document Management System	Assess, design and assist in the development of solution selection and project specs for a Document Management System.	P&E	100,000	-	-	-	100,000

Board of Water Supply  
Capital Improvement Program Budget  
FY 2016

Item No.	Project Title	Description	Type	Operating Fund	Special Expendable Fund	State Revolving Fund	Reserve Release Fund	Total
39.	Data Center Renovation Project	Assess, design and construct layout changes to the Data Center to more effectively utilize the floor space given the decommissioning and removal of the DEC VAX. Repositioning/relocation of equipment racks, power and data conduits/cables, Halon system changes, and movement of existing, and construction of new walls/doors are included.	P&E	250,000	-	-	-	250,000
40.	Security Enhancements at BWS Corporation Yards	Prepare plans and specifications, and perform life cycle cost analysis to install fencing and card access for Kalihi, Manana, Waianae, Wahiawa, Heeia Corporation Yards; Halewa Xeriscape Garden and Beretania Complex	P&E	200,000	-	-	-	200,000
41.	Waipio Acres Control Valve Improvements	Install isolation valves for system operations and emergency pumping connection to allow 808 system to supply 1075 system. Relocate existing PRV at Melemanu 808 Reservoir to Waikalani Drive.	P&E	300,000	-	-	-	300,000
42.	Professional Services for BWS Projects	Obtain services of archaeologists, botanists, environmental engineers, water quality labs, planners, government agencies and others.	P&E	600,000	-	-	-	600,000
43.	Facility Repair and Renovation	Repair, renovation, reroofing, fencing and repainting of selected BWS facilities.	P&E	400,000	-	-	-	400,000
44.	Security Fencing at Various Locations	Install expanded metal fencing at selected BWS facilities.	P&E	200,000	-	-	-	200,000
<b>E. Facilities - Total</b>				<b>18,015,000</b>	-	-	-	<b>18,015,000</b>
<b>Total Category II - Renewal and Replacement</b>				<b>41,776,790</b>	-	<b>6,600,000</b>	<b>2,978,210</b>	<b>51,355,000</b>

**III. Capacity Expansion**

**A. Pumps**

Board of Water Supply  
Capital Improvement Program Budget  
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Item No.	Project Title	Description	Type	Operating Fund	Special Expendable Fund	State Revolving Fund	Reserve Release Fund	Total
45.	Lualualei Line Booster Improvements	Install booster station improvements to increase pumping capacity	Const	-	3,000,000	-	-	3,000,000
46.	Miilani 994 Booster Station	Install booster station at the Miilani 994 Reservoir to boost to 1150 system	P&E	-	350,000	-	-	350,000
<b>A. Pumps - Total</b>				-	3,350,000	-	-	3,350,000
<b>B. Reservoirs</b>				-	-	-	-	-
<b>B. Reservoirs - Total</b>				-	-	-	-	-
<b>C. Pipelines</b>				-	-	-	-	-
<b>C. Pipelines - Total</b>				-	-	-	-	-
<b>D. Treatment</b>				-	-	-	-	-
47.	GAC Facility Improvements	Install improvements at select GAC facilities to extend use of existing systems	Const	500,000	-	-	-	500,000
48.	GAC Facility Improvements	Install improvements at select GAC facilities to extend use of existing systems	P&E	100,000	-	-	-	100,000
<b>D. Treatment - Total</b>				600,000	-	-	-	600,000
<b>E. Facilities</b>				-	-	-	-	-
49.	Honouliuli Water Recycling Facility Improvements	Install new disk filter and UV system to improve operational efficiency and increase treatment capacity	Const	-	-	7,000,000	-	7,000,000
50.	Security Camera Systems	Install computer network-based security camera systems (camera, lights, speakers and motion detectors) at critical pump stations and reservoirs.	Const	375,000	-	-	-	375,000
51.	Backup Power Systems for Wireless Systems	Provide backup power for wireless, RTU and security camera systems at BWS facilities	Const	2,400,000	-	-	-	2,400,000

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Item No.	Project Title	Description	Type	Operating Fund	Special Expendable Fund	State Revolving Fund	Reserve Release Fund	Total
52.	Wireless & Security Camera Systems	Upgrade existing wireless and security camera systems, install backup wireless links, and update wireless and security camera system drawings and documentation	Const	1,200,000	-	-	-	1,200,000
53.	Security Camera Management System	Replace existing security camera management system. This system provides security video monitoring, alarming, recording, search and playback software	P&E	500,000	-	-	-	500,000
<b>E. Facilities - Total</b>				<b>4,475,000</b>	<b>-</b>	<b>7,000,000</b>	<b>-</b>	<b>11,475,000</b>
<b>Total Category III - Capacity Expansion</b>				<b>5,075,000</b>	<b>3,350,000</b>	<b>7,000,000</b>	<b>-</b>	<b>15,425,000</b>
<b>Total Categories I - III</b>				<b>49,251,790</b>	<b>3,350,000</b>	<b>14,100,000</b>	<b>2,978,210</b>	<b>69,680,000</b>
<b>Construction Cost Index Adjustment</b>				<b>3,477,500</b>	<b>300,000</b>	<b>1,410,000</b>	<b>-</b>	<b>5,187,500</b>
<b>Contract Adjustment Account</b>				<b>8,800,000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>8,800,000</b>
<b>FY 2016 Capital Improvement Program - Total</b>				<b>61,529,290</b>	<b>3,650,000</b>	<b>15,510,000</b>	<b>2,978,210</b>	<b>83,667,500</b>