



# Annual Operating Budget Fiscal Year 2016

Approved June 15, 2015



**Tampa Bay Water – 2016 Annual Budget**  
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**Tampa Bay Water Board of Directors  
June 2015**

Ted Schrader \_\_\_\_\_ Chairman  
Commissioner – Pasco County

Karl Nurse \_\_\_\_\_ Vice Chairman  
Councilmember - City of St. Petersburg

Ken Hagan \_\_\_\_\_ Member  
Commissioner - Hillsborough County

Sandra L. Murman \_\_\_\_\_ Member  
Commissioner - Hillsborough County

Jack Mariano \_\_\_\_\_ Member  
Commissioner - Pasco County

John Morroni \_\_\_\_\_ Member  
Commissioner - Pinellas County

Kenneth Welch \_\_\_\_\_ Member  
Commissioner - Pinellas County

Rob Marlowe \_\_\_\_\_ Member  
Mayor - City of New Port Richey

Charlie Miranda \_\_\_\_\_ Member  
Councilmember - City of Tampa

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**Tampa Bay Water Executives**

Matt Jordan, General Manager

Pennington, Moore, Wilkinson, Bell & Dunbar, P.A., General Counsel

Alison Adams – Chief Technical Officer

Michelle Biddle, Chief Communications Officer

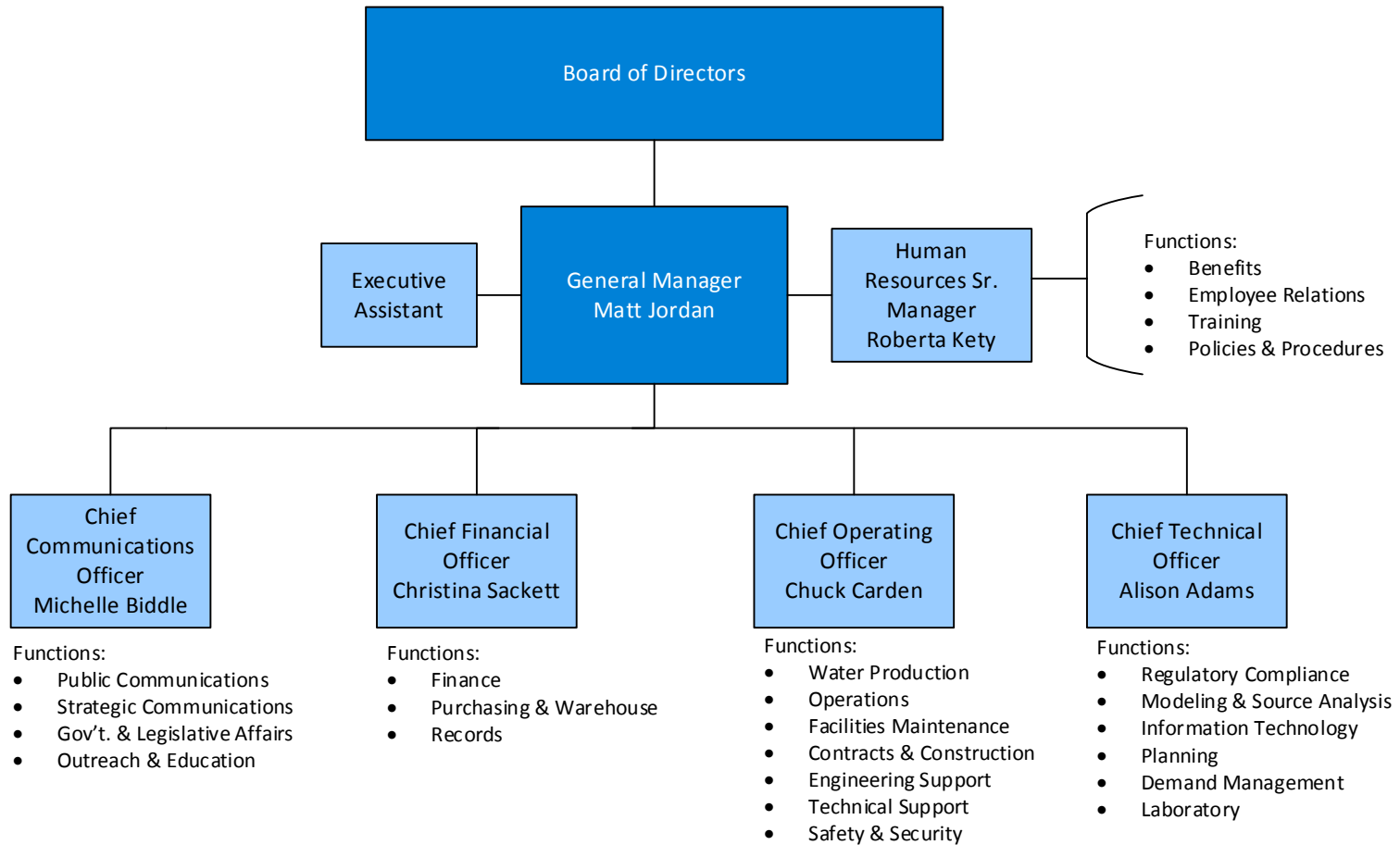
Charles Carden, Chief Operating Officer

Christina Sackett, Chief Financial Officer

## Tampa Bay Water – 2016 Approved Budget Organizational Chart

FY 2015 = 133 FTE

FY 2016 = 133 FTE + 4 Approved



## Tampa Bay Water – 2016 Annual Budget Agency Profile

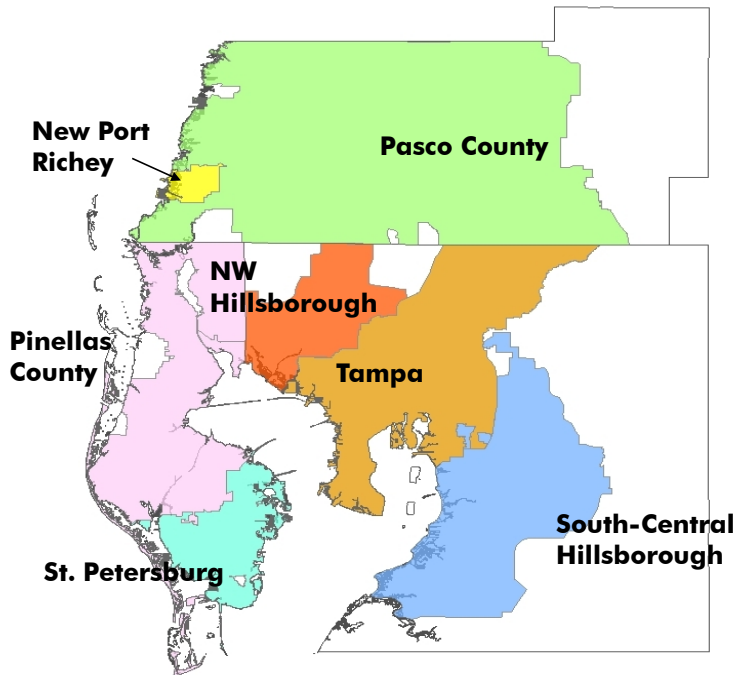
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Tampa Bay Water, A Regional Water Supply Authority (the Agency), formerly the West Coast Regional Water Supply Authority (the Predecessor Authority), was created on October 25, 1974, by enabling state legislation under *Florida Statute* Sections 163.01, 373.713, and 373.715. Hillsborough, Pasco, and Pinellas counties and the cities of St. Petersburg, Tampa, and New Port Richey comprise the Member Governments of the Agency. A Governance Study was adopted by the Florida Legislature in 1997 (the 1997 Legislation) amending Section 373.1963, *Florida Statutes*.

As part of the 1997 Legislation, the Agency entered into the Interlocal Agreement and the Master Water Supply Contract with its Member Governments for a term of 40 years. Pursuant to the Amended and Restated Interlocal Agreement and Master Water Supply Contract, the Agency is required to meet the Quality Water needs of the Member Governments and to charge a uniform per-gallon wholesale rate to Member Governments for the wholesale supply of drinking water; with one exception for the City of Tampa. The Agency will charge a separate rate to the City of Tampa for water delivered from the Tampa Bypass Canal. (See Summary of Contracts and Resolutions.)

The Agency provides quality drinking water to its six member governments whose water service areas serve the approximately 2.3 million residents in the Tampa Bay region.

### Tampa Bay Water Service Areas



## Tampa Bay Water – 2016 Annual Budget Agency Profile

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The Agency's administrative offices are located in Clearwater, Florida. The Agency's operations, maintenance, and laboratory staff are located primarily at its Infrastructure Management and Laboratory facilities at the Cypress Creek Wellfield in Land O' Lakes, Florida. The Agency's diverse water system includes the following facilities located in Pasco, Pinellas and Hillsborough Counties:

### **Groundwater:**

- Cypress Creek Wellfield and Pump Station
- Eldridge-Wilde Wellfield
- Cross Bar Wellfield
- Morris Bridge Wellfield
- Cypress Bridge Wellfield
- Brandon Dispersed Wells
- Northwest Hillsborough Wellfield
- South Central Hillsborough Wellfield
- Cosme-Odessa/Section 21 Wellfields
- Starkey/N. Pasco Wellfield
- South Pasco Wellfield
- Carrollwood & Eagles Wells
- Keller Hydrogen Sulfide Treatment Facility
- Lithia Hydrogen Sulfide Treatment Facility

### **Surface Water:**

- Tampa Bay Regional Water Treatment Facility
- Alafia River Pumping Station
- Tampa Bypass Canal/Hills River Pumping Stations
- C. W. Bill Young Regional Reservoir

### **Desalinated Water:**

- Tampa Bay Water Seawater Desalination Facility

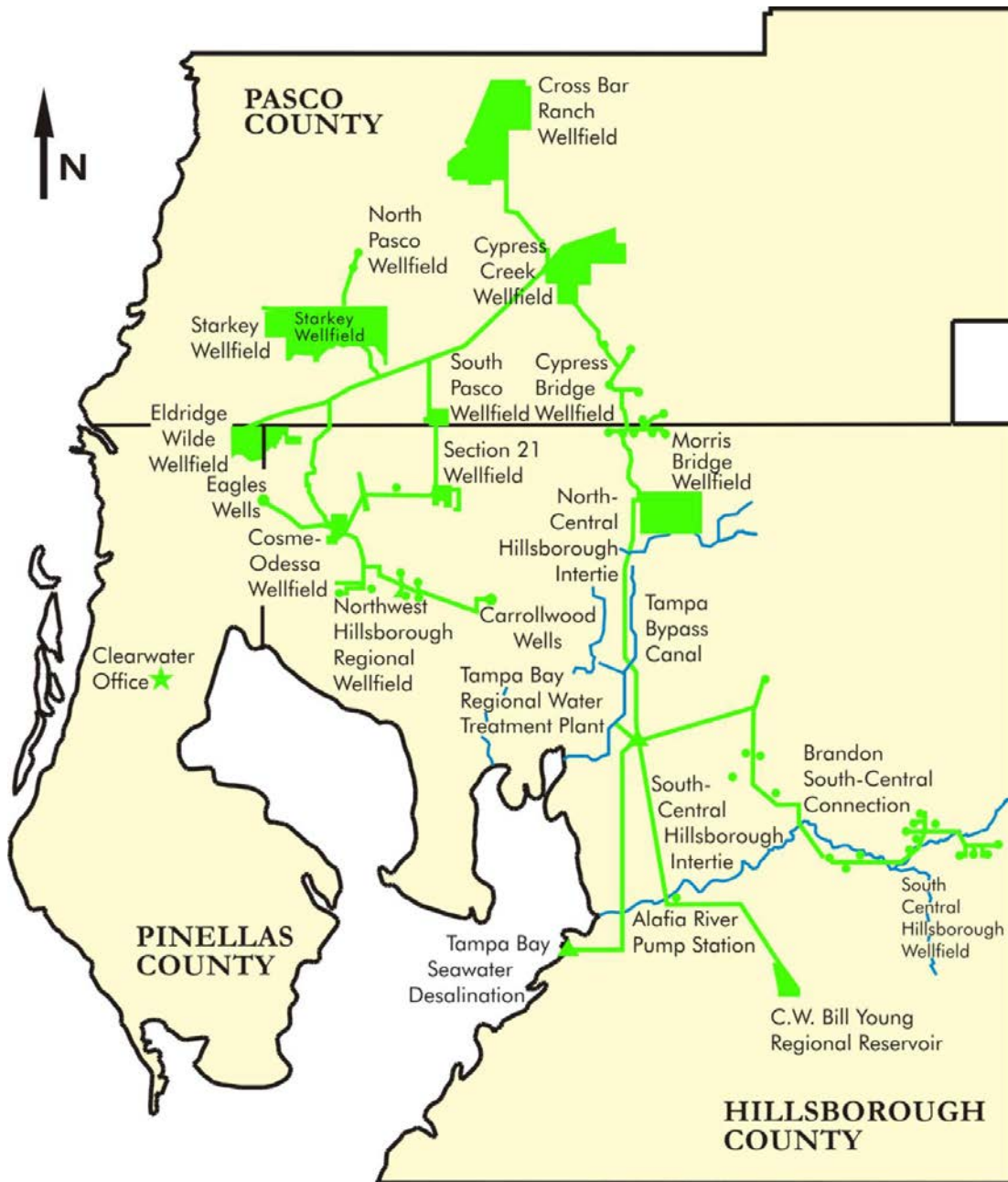
The water system also includes various booster stations, water treatment facilities, and approximately 200 miles of raw water collection mains and large-diameter potable water transmission mains.

Tampa Bay Water is subject to regulation by the Florida Department of Environmental Protection, the Florida Department of Health, and the United States Environmental Protection Agency (USEPA) for matters related to the quality of water and the construction of its facilities. In addition, the Southwest Florida Water Management District (SWFWMD) regulates consumptive uses of water through a permitting process.



Tampa Bay Water – 2016 Annual Budget  
Agency Profile

Tampa Bay Water Facility Locations



## Tampa Bay Water – 2016 Annual Budget Agency Profile

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### **Strategic Planning and Agency Reorganization**

In April 2011, the Board of Directors adopted a new, 10-year strategic plan for the agency. The plan established clear policy direction for decision-making at all levels of the agency and included updated mission, vision and value statements. The Board's three long-standing policy goals of sustainability, reliability and affordability were confirmed through their adoption of four strategic initiatives as part of the strategic plan:

- To achieve a reliable water supply and delivery system;
- To continue to improve the efficiency of Tampa Bay Water's operations;
- To maintain the Agency's financial stability and sustainability; and
- To develop, maintain and improve collaborative relationships with stakeholders.

The adoption of this plan, as well as recommendations from the 2005 and 2010 performance and management audits performed on the agency and the agency shift from focusing on designing and constructing major water supply facilities to managing and maintaining the \$1 billion in infrastructure built, led to the agency reorganization.

Using water utility and industry guidance and standards, agency staff went through a series of workshops aimed at educating staff and department leadership about the concepts of organizational design and motivating department leaders to ask what each department does, how agency objectives are being accomplished and whether or not there are more efficient ways of completing work assignments. The workshops also led to the development of alternative organizational designs for the agency to achieve the Board objectives in the most effective and efficient ways.

At the General Manager's direction, a new organization chart was developed and implemented beginning in Fiscal Year 2013. Additional changes were made in fiscal year 2014. The new organizational design separates the agency into four divisions: Water Production, Finance & Administration, Public Affairs, and Science & Technology. The Human Resource Department is also a direct report to the General Manager. As part of the reorganization, each division is now focused on developing efficient work processes and creating performance measures to strive for efficiencies and affordable service.

Tampa Bay Water's new organization design focuses on the Mission, Vision and Value statements, better positions the agency to implement the Board's Strategic Plan, and implements recommendations from the performance audits.

**Tampa Bay Water – 2016 Annual Budget  
Mission Statement, Vision, and Values**

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**MISSION STATEMENT**

Tampa Bay Water reliably provides clean, safe water to the region now and for future generations.

**VISION**

Be a model for regional water supply in the nation;  
Be a leader in innovation and best practices; and  
Be a respected member of the Tampa Bay community

**VALUES – THE PRINCIPLES THAT GUIDE US**

Our employees and their safety are the keys to the agency's success.  
We strive for continuous improvement in everything we do.  
We fulfill our mission in partnership with our stakeholders in a responsible, efficient and  
environmentally sustainable manner



GOVERNMENT FINANCE OFFICERS ASSOCIATION

*Distinguished  
Budget Presentation  
Award*

PRESENTED TO

**Tampa Bay Water  
Florida**

For the Fiscal Year Beginning

**October 1, 2014**

Executive Director

The Government Finance Officers Association of the United States and Canada (GFOA) presented a Distinguished Budget Presentation Award to Tampa Bay Water, Florida for its annual budget for the year beginning October 1, 2014. In order to receive this award, a government unit must publish a budget document that meets program criteria as a policy document, an organizational guide, as a financial plan, and as a communication device.

# General Manager's Budget Message

Fiscal Year 2016

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The General Manager's Budget Message provides a summary of Tampa Bay Water's financial plan by highlighting major issues to be addressed in fiscal year 2016.

Board of Directors Ted Schrader, Karl Nurse, Ken Hagan, Jack Mariano, Rob Marlowe,  
Charlie Miranda, John Mironi, Sandra Murman, Kenneth Welch

General Manager Matthew W. Jordan

General Counsel Barrie S. Buenaventura, Pennington, P.A.

2575 Enterprise Road, Clearwater, FL 33763-1102

Phone: 727.796.2355 / Fax: 727.791.2388

www.tampabaywater.org



June 23, 2015

The Honorable Chair and Members of the Board of Directors  
Tampa Bay Water  
2575 Enterprise Road  
Clearwater, Florida 33763

Commissioner Schrader and Members of the Board:

I am pleased to present the approved Tampa Bay Water annual budget for Fiscal Year 2016 in accordance with Section 2.08 of the Amended and Restated Interlocal Agreement. This budget balances the board's three overarching goals of maintaining a reliable water supply system, being good stewards of the environment, and maintaining cost-effective rates. Additionally, the budget was put together with an eye toward meeting the goals in the agency's board-approved 2014 Strategic Plan, which include:

- Maintain water supply and delivery system reliability and sustainability
- Increase efficiency of all Agency operations
- Maintain financial stability and sustainability
- Maintain open, collaborative relationships with member governments and other stakeholders
- Uphold a health and safety culture

For Fiscal Year 2016, the Agency anticipates total water sales of 164 million gallons per day (mgd); and a uniform rate of \$2.559 per 1,000 gallons, **marking the fifth year in a row that the agency has charged this uniform water rate to its customers.** The Agency is able to hold the line on rates once again, due, in part, to the efficient and effective operation of its system. In addition, staff is taking advantage of the well-funded rate stabilization fund to offset any increase caused by the decrease in water sales to our member governments.

Since forming in 1998, Tampa Bay Water has successfully achieved all of the goals to create a new, diverse water supply system and cut back on groundwater pumping. Operating as a true, regional utility, the Agency has met all of its promises to our local governments, the Florida Legislature, the regulatory officials, and the public by:

- Reducing groundwater pumping by nearly 100 million gallons per day through the development of alternative water supplies.
- Achieving environmental recovery in many region's wetland areas.

- Improving environmental monitoring at new and existing agency facilities.
- Providing high-quality, safe drinking water that surpasses many state and federal standards to our member governments.
- Ending litigation among our members and regulatory agencies over water issues.

### **Policy Goals Used in Fiscal Year 2016 Budget Development**

The Fiscal Year 2016 budget was put together with important agency policy goals in mind. Those goals included:

- Meeting the performance requirements of the Master Water Supply Contract to provide high-quality water to our six member governments.
- Operating our water supply facilities to improve supply delivery while also maintaining full compliance with all regulatory permits.
- Focusing on achieving the goals specified in the agency's board-approved 2014 strategic plan.
- Focusing on continually improving the efficiency and effectiveness of the agency's operations through ongoing implementation of the Agency's asset management program or RISE.
- Addressing key recommendations from the 2010 Performance and Management Report and allocating our staff and financial resources to meet the boards' objectives for a sustainable and affordable water supply system.
- Continuing to balance and blend our multiple supplies of water sources to deliver high-quality, affordable water to our member governments.
- Examining the agency's use of outside consultants and evaluating staffing needs across the agency to ensure both human and fiscal resources are being efficiently allocated.
- Performing feasibility studies on future water supply projects and completing the future needs analysis to support the update of the Long-Term Master Water Plan.
- Refining the models used to accurately predict the need for new water supplies in the future.
- Safeguarding the public's investment of \$1.915 billion in the region's water supply and delivery system to ensure that both the water quality and water quantity meet the needs of the 2.3 million people in our region. Protecting that investment includes:
  - Focusing on the safety and security of our employees and our water supply facilities by preparing and exercising procedures and emergency preparedness plans for the staffing and operations of our water production facilities in disaster events.
  - Renewing and replacing existing infrastructure to ensure the optimal operation of our facilities over time.
  - Continuing to award community, environmental and educational organizations for projects that promote the protection of our drinking water sources through the Source Water Protection Mini-Grant Program.
- Continuing to develop and implement an employee training and knowledge retention program to address the succession planning required over the next several years as long-term employees leave the agency.

- Expanding the agency's outreach and education program to underscore the importance of a reliable, sustainable water supply for economic and regional growth and development.
- Working with our colleagues around the country in the continuing research into changes in weather patterns and the impact of climate change upon the surface water systems serving our area.
- Maintaining a strong relationship with the Southwest Florida Water Management District, the Florida Department of Environmental Protection, and other regulatory agencies to ensure open and honest communication on regulatory, planning and financial matters.

## **Key Factors Affecting the Fiscal Year 2016 Budget**

### ***Decrease in Water Sales***

The largest factor affecting the agency's fiscal year 2016 budget is the demand for water. Due to many economic factors, including the loss of some wholesale customers by our member governments, the updated projected water demands for Fiscal Year 2016 are less. The Fiscal Year 2016 projected demand is 3.6 mgd less than the projected water demands for Fiscal Year 2015, which equates to a reduction in revenue of approximately \$3.4 million. Since the economic downturn in 2008, the agency has seen a decrease of nearly 30 million gallons per day in water deliveries to the member governments.

### ***Net Revenue Required From Water Sales***

Demand is only one factor used in calculating the agency's uniform rate. The other factor is net revenue required from water sales. The net revenue required must cover all of the agency's costs – debt service, variable costs, contracted costs and fixed costs. With the knowledge of lower demands, management focused on fixed costs in areas that can fluctuate year-to-year depending on weather and unforeseen system improvements and identified \$2.1 million in cost reductions. Reductions were made with the understanding the agency has adequate reserve funds if needed for contingency, in the Rate Stabilization Account and the Utility Reserve. Additionally, management was able to save the agency \$228,000 in net cost savings by evaluating the use of consultants for work and bringing some additional staff online.

### ***Minimizing Any Rate Increase***

Additionally, management focused on providing a fourth year in a row of no rate increase for Tampa Bay Water's customers. The approved rate of \$2.559 per 1,000 gallons is nearly 5 cents or 1.9 percent less than rates projected in the Fiscal Year 2015 budget.

## **Water Demand Used in the 2016 Budget**

The projected water sales to the six member governments is based on a multi-step process that takes into account the total water demand for each member government and for the region, as reflected in the Agency's long-term water demand forecasting models. These models produce retail and wholesale water demands for each of the seven water demand planning areas served by our member governments based on annually updated projected socio-economic data and normal weather (rainfall



and temperature conditions). The annual update of projected member government water demands is presented to the Board each December. These demand projections are also compared with each member government's annual report.

The 2016 budget was developed to reflect demand with average annual rainfall. Several members (City of Tampa, Pasco County and New Port Richey) supply water through their own facilities to meet a portion of their total water needs. The total regional water demand is reduced by the amount of water these members supply to themselves, resulting in the aggregate expected water demand for budget and planning purposes. The projected annual delivery to the member governments is significantly affected by the amount of water purchased by the City of Tampa, an uncertainty that is directly related to the amount of rainfall that may be experienced. For budgeting purposes, the City of Tampa's demand is budgeted at 6 mgd for Fiscal Year 2016. This 6 mgd is added back to the total amount of water expected for delivery to the member governments. This final value forms the basis of the budgeted uniform rate for Fiscal Year 2016. The projected water delivery to the member governments for Fiscal Year 2016 is 164 mgd. This compares to 167.6 mgd for Fiscal Year 2015. The reduction in the projected demand is due to lost wholesale customers and updated socio-economic projections which indicate that growth in the region is positive but slow.

The Agency's budget is developed each year with a focus on the expected rainfall for the year, so scenarios for operating the system can be developed based on maximizing the use of available river water and managing groundwater resources to achieve environmental recovery around our wellfields and meet permit requirements.

The financial impact of reduced water sales is clear. Over time, the sale of fewer gallons of water means the unit cost per gallon rises as the Agency must recover fixed costs over a smaller sales base. Managing the financial performance with past declines, slow growth in demand and increases in operating costs presents a long-term challenge for the Agency. Agency reserves must be sufficient to withstand unexpected changes in demand so mid-year rate increases can be avoided. The Agency is proactive in funding reserve accounts for both the short and the long term. This allows the Agency to maintain rates with moderate-to-no increases year-to-year, to implement the renewal and replacement program, implement a comprehensive asset management program, and retain excellent credit ratings on debt service.

### **Operational Highlights for Fiscal Year 2016**

The total amount of funding required to meet all agency fixed and variable expenses in 2016 is \$160,002,517, which represents a \$2.4 million cost savings from the Fiscal Year 2015 budget. This cost savings can be attributed to lowering the debt service on our bonds through re-funding and decreasing variable costs by optimizing the use of our water supply sources. Additional expenses of \$5,018,329 for Renewal & Replacement projects are also included in the budget, bringing the total budget to \$165,020,846. These projects however will be funded from the Renewal & Replacement fund. The net revenue requirement for calculation of the uniform rate charged to the member governments is \$153,602,133, resulting in a uniform rate of \$2.559 per 1,000 gallons. This is the fifth consecutive year at this uniform rate for the agency.

Some of the key features of the Fiscal Year 2016 budget include:

- Operation of the surface water treatment plant, the two river sources that feed it and use of the C.W. Bill Young Regional Reservoir; six groundwater treatment plants; thirteen regional wellfields; the seawater desalination plant; and nearly 200 miles of pipeline.
- Operation of the Tampa Bay Seawater Desalination Plant at an annual average of 4 mgd. The use of the desalination plant is budgeted to bridge the gap during the dry times of the year and allow the agency to balance the use of surface water and groundwater and maintain compliance with all of our regulatory permits.
- Full use of the C.W. Bill Young Regional Reservoir, the region's water saving account.
- An annual average production of 55 mgd at the Regional Surface Water Treatment Plant, using flows from the Hillsborough and Alafia rivers and the Tampa Bypass Canal, as well as water stored in the regional reservoir. The Plant production is managed to maximize the seasonally available higher river flows during wet-weather months. Like production at the desalination facility, Surface Water Treatment Plant production may be increased proportionately when river flows are available, to maintain the agency's groundwater pumping permitted levels.
- Use of 81 mgd on an annual average basis from the consolidated permit wellfields, which is 9 mgd less than the permit limit of 90 mgd, in recognition that we may need to increase groundwater production if we have a drier than normal year. Any increase in groundwater production would likely be accompanied by an increase in use of the desalination plant to maintain our groundwater pumping limits.
- Estimated \$3,200,826 in unencumbered funds from 2015 will be carried over to Fiscal Year 2016 and applied to minimize an impact on the uniform rate.

The budget of \$165.0 million includes \$72.4 million for debt service, \$10.3 million for acquisition and water quality credits to the Members, \$24.2 million for variable costs (power, chemicals & purchased water), \$5 million for Renewal & Replacement projects and \$15.5 million for professional services associated with operations and maintenance agreements for contracted water plant operations. These costs comprise 77% of the Agency's annual budget and overall costs decreased by \$2.13 million.

When focusing on the remaining 23% of the budget, costs increased by \$650 thousand but are offset by the overall reduction of \$2.13 million, resulting in a \$1.48 million reduction in total costs. Even with the overall reduction of total costs, use of \$5,325,000 of Rate Stabilization funds are planned to maintain the uniform rate of \$2.5590 per 1,000 gallons for the fifth straight year.

Analysis of Costs in FY 2016 Budget

Enterprise Funds	Approved 2015	Approved 2016	Variance +/-	Effect on Rate
<b>Sources of Funds</b>				
Water Sales	\$ 156,541,319	\$ 153,602,133	\$ (2,939,186)	\$ (0.0448)
Additional Credits/ Surcharges (Board Approved)	42,000	42,000	-	
TBC - Sale of Water	581,260	-	(581,260)	(0.0089)
Interest Income	877,424	859,552	(17,872)	(0.0003)
<b>Subtotal</b>	<b>\$ 158,042,003</b>	<b>\$ 154,503,685</b>	<b>\$ 312,545,689</b>	<b>(0.0539)</b>
Transfers In from Rate Stabilization Account	4,015,000	5,325,000	1,310,000	0.0199
Estimated Unencumbered Funds from Prior Year	3,147,745	3,200,826	53,081	0.0008
Transfer In from Renewal & Replacement	4,115,387	5,018,329	902,942	0.0137
<b>Total Sources</b>	<b>\$ 169,320,135</b>	<b>\$ 168,047,840</b>	<b>\$ 314,811,712</b>	<b>\$ (0.0194)</b>
<b>Uses of Funds</b>				
Personnel Services	\$ 13,870,279	\$ 14,696,010	\$ 825,731	\$ 0.0126
Materials & Supplies	2,736,393	2,554,905	(181,488)	(0.0028)
Professional Services	27,521,186	27,555,065	33,879	0.0005
Repairs & Other Services	4,312,637	4,405,332	92,695	0.0014
Rent & Insurance	1,920,539	1,829,000	(91,539)	(0.0014)
Legal Services	545,000	545,000	-	-
Capital Expenditures	1,466,788	1,509,992	43,204	0.0007
Total Debt Service-Bonds	72,876,252	72,413,958	(462,295)	(0.0070)
Acquisition Credit to Member Governments	10,231,558	10,231,558	-	-
Water Quality Credit to Member Governments	48,000	48,000	-	-
Misc./Other-R&R Projects	4,115,387	5,018,329	902,942	0.0137
Water Treatment Chemicals -Variable Cost	11,769,355	10,665,878	(1,103,477)	(0.0168)
Power / Electricity -Variable Cost	13,543,263	12,003,244	(1,540,019)	(0.0235)
Water for Resale -Variable Cost	1,544,575	1,544,575	-	-
<b>Subtotal</b>	<b>\$ 166,501,212</b>	<b>\$ 165,020,845</b>	<b>\$ (1,480,367)</b>	<b>\$ (0.0225)</b>
Transfer Out to Capital Improvement Fund	37,923	26,995	(10,928)	(0.0002)
Transfer Out to R&R Fund	2,781,000	3,000,000	219,000	0.0033
<b>Total Uses</b>	<b>\$ 169,320,135</b>	<b>\$ 168,047,840</b>	<b>\$ (1,272,295)</b>	<b>\$ (0.0194)</b>
Projected Water Demand (mgd)	167.60	164.00	(3.60)	
Projected Uniform Water Rate (\$/1000 gal.)	\$ 2.5590	\$ 2.5590	\$ 0.0000	

## **Fiscal Year 2016 Budget Schedule**

In an effort to provide the member governments and public with a budget document for use as information and for planning, the budget schedule requires final approval of the budget prior to August 1 each year. In accordance, the proposed Fiscal Year 2016 was reviewed during a public hearing and was approved at the June 15, 2015 board meeting.

The proposed budget was distributed to member governments for review in March 2015. Tampa Bay Water staff met with each member government to discuss the proposed document in late March and early April. The recommended Fiscal Year 2016 budget was reviewed by the board at a budget workshop held on April 20, 2015, prior to the regular board meeting. At the April board meeting, the board directed staff to schedule a public hearing on the budget and thereby meet the requirement in the Amended and Restated Interlocal Agreement for final budget approval at the June 15<sup>th</sup> board meeting.

As in prior years, the preparation of Tampa Bay Water's annual budget requires the collaborative efforts of many staff members and the finance department. A special thanks to Lynda Vatter and Christina Sackett for a job well done.

Respectfully submitted,



Matt Jordan  
General Manager

# Annual Budget Development

Fiscal Year 2016

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The Annual Budget Development Section provides an overview of the key requirements for the annual budget development and approval process.

## Tampa Bay Water – 2016 Annual Budget Annual Budget Development

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### **Budget Format**

The summary and layout of the annual budget document is as follows:

- A. The **General Manager's Budget Message** is designed to provide a summary of Tampa Bay Water's financial plan by highlighting major issues to be addressed in fiscal year 2016.
- B. The **Annual Budget Development** section provides an overview of the key requirements for the annual budget development and of the approval process.
- C. The **Financial Management Policies** section provides a summary of Tampa Bay Water's primary financial policies.
- D. The **Financial Plan** section provides an overview of Tampa Bay Water's budgetary fund structure and information on revenue and expenditures, as well as capital spending for the budget year.
- E. The **Annual Rate Setting and Member Costs** section provides summarized information and schedules including current and projected rates and Member Costs. Charts and graphs are provided that depict the components of the budget and the rate impacts. Separate charts and schedules are provided for each Member Government to assist them in planning and coordination of their budgets and financial obligations associated with Tampa Bay Water's contractual commitments.
- F. The **Debt Service** section provides a listing of the outstanding debt of the Agency, the Agency's bond ratings, and the details of the debt requirements shown in the Financial Plan section. The section also provides information on debt coverage requirements and future Debt Service.
- G. The **Capital Improvement Program** section provides summary information about the Agency's capital projects. This includes projects that are scheduled to be in the feasibility, design and construction phases during fiscal year 2016.
- H. The **Divisional Operating Budget Detail** section provides information on Tampa Bay Water's office and divisional organization and responsibilities. It also includes the fiscal year 2016 budget for each division.
- I. The **Summary of Contracts and Resolutions** section provides key contractual requirements of the Master Water Supply Contract, the Amended and Restated Interlocal Agreement, and the Master Bond Resolution.
- J. The **Appendix** includes a schedule of key dates for the budget process for fiscal years 2016 and 2017. It also provides demographic and statistical information for Tampa Bay Water's service area, and information to assist the Member Governments in the planning of their annual budgets.

**Tampa Bay Water – 2016 Annual Budget  
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K. The **Glossary** includes an alphabetical list of terms used in the budget document and defined by the Amended and Restated Interlocal Agreement, the Master Water Supply Contract, and/or the Master Bond Resolution.

For budgetary purposes, Tampa Bay Water is organized into five divisions under the office of the General Manager as listed below:

- **Office of the General Manager**
  - General Manager
    - Legal Coordination
  
- **Human Resource Department**
  - Human Resource Senior Manager
    - Benefits
    - Employee Relations
    - Training
    - Policies and Procedures
  
- **Water Production Division**
  - Chief Operating Officer
    - Water Production
    - Operations
    - Facilities Maintenance
    - Construction
    - Engineering
    - Technical Support
  
- **Science and Technology Division**
  - Chief Technical Officer
    - Regulatory Compliance
    - Modeling & Source Analysis
    - Information Technology
    - Planning
    - Laboratory
  
- **Finance and Administration Division**
  - Chief Financial Officer
    - Finance
    - Purchasing
    - Board Records
  
- **Public Affairs Division**
  - Chief Communications Officer
    - Public Communications
    - Strategic Communications
    - Outreach Program
    - Inter-Governmental Program

Throughout fiscal years 2013 and 2014, Tampa Bay Water made significant organizational changes to the Agency. Each division is now overseen by an Officer or Senior Manager. Collectively the Officers and Senior Manager are part of the Executive Team and report to the General Manager.

## Tampa Bay Water – 2016 Annual Budget Annual Budget Development

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Tampa Bay Water’s annual budget development process utilizes a budget format that organizes the annual operating costs and other financial requirements of divisions, departments and Office of the General Manager, into twelve major expense categories and approximately 60 sub-categories.

The major expense categories for budgetary and accounting purposes include the following:

- Personnel Services
- Materials and Supplies
- Professional Services
- Repairs and Other Services
- Rent and Insurance
- Legal Services
- Capital Expenditures
- Debt Service
- Water Quality Credits
- Water Treatment Chemicals
- Water for Resale
- Power & Electric
- Reserve Funding

The major expense categories consist of sub-categories to allow Tampa Bay Water’s divisions, departments and offices to estimate the projected expenses at the sub-category level. For example, the Personnel Services category includes the following sub-categories: Regular Salaries, Other Salaries and Wages, Overtime, Shift Differential, On-call Pay, FICA, FRS, Life and Health Insurance, Workers’ Compensation, Unemployment Compensation, and Auto Allowance.

As part of the annual budget development process, each of Tampa Bay Water’s divisions, departments and the Office of the General Manager are required to prepare their initial annual budget requirements by major categories and sub-categories, using the budget model. These initial budget requirements are reviewed, evaluated, and modified, as needed, at the department, division, and agency levels to ensure that budgets are appropriate for planned operating levels, proposed project activity, and achievement of agency goals. The proposed budget is presented at a Board workshop for further review by the Board. Meetings are also held with the staff of the six member governments to review the proposed budget.



**Tampa Bay Water – 2016 Annual Budget  
Annual Budget Development**

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**Budget Basis**

The basis for developing and adopting the annual budget for Tampa Bay Water is established by the Amended and Restated Interlocal Agreement. This requires that the budget be prepared primarily on an accrual basis, which is similar to the Agency's annual financial statements. Notable differences between the budget basis and the GAAP basis used for financial reporting are as follows:

- Principle payments on long-term debt are treated as current expenditures for the budget basis, as opposed to being recorded as a reduction of outstanding liabilities for the GAAP basis.
- Capital expenditures funded from the rate are treated as current expenditures under the budget basis, but are treated as acquisition of capital assets under the GAAP basis.
- Capital expenditures funded from debt proceeds are not reflected under the budget basis and are capital asset acquisitions under the GAAP basis.
- The budget basis includes only that interest income which is available for use for budgetary purposes. The GAAP basis reflects all interest income, including that restricted as to purpose, and as adjusted for interest income which is offset against interest costs allocated to construction projects in accordance with GAAP.
- The budget basis includes only interest expense that is to be paid from the rate and budgeted revenue sources. Interest expense under the GAAP basis may also include interest costs being paid from bond proceeds (capitalized interest) and will exclude any interest costs that are treated as a cost of assets in the construction phase.
- The budget basis also reflects transfers to and from various reserves, which are not revenue and expense under the GAAP basis.

**Tampa Bay Water – 2016 Annual Budget  
Annual Budget Development**

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**Annual Budget Requirements**

This section briefly describes the key requirements of the annual budget development and approval process, as outlined in the Interlocal Agreement.

Section 2.08. Article II, *Creation and Governance*, of the Amended and Restated Interlocal Agreement establishes the procedures and requirements for the development of an annual budget for Tampa Bay Water. The requirements are as follows:

- Prior to July 1 of each year, the General Manager shall prepare and deliver to the Board a balanced tentative budget for Tampa Bay Water covering its proposed operating and other financial requirements for the ensuing fiscal year. The tentative budget shall identify:
  - The rate at which Quality Water will be sold to Member Governments during such fiscal year; and
  - The rate to be charged to the City of Tampa for water provided through the Tampa Bypass Canal pumping facility during such fiscal year.
- The Board shall publish a notice of its intention to adopt the budget and shall provide copies of the notice and tentative budget to each Member Government on or before the first publication date. The notice shall include a summary of the tentative budget; specify the rates at which Quality Water will be sold to the Member Governments; and identify the time, date, and place at which the public may appear before the Board and state their objections to or support of the budget and rates. The notice shall be published once a week for two consecutive weeks within thirty (30) days of the public hearing, in any newspaper qualified to accept legal advertisements in each county in the jurisdiction of Tampa Bay Water, the last insertion of which shall appear not less than one week prior to the date set by the Board for the hearing on the proposed budget and rates.
- At the time, date and place specified in the notice, the Board shall conduct a public hearing and thereafter may consider adoption of the budget and rates with any amendments it deems advisable. Unless otherwise authorized by the Board, the final budget and rates shall be adopted by August 1.
- The adopted budget shall be the operating and fiscal guide for Tampa Bay Water for the ensuing fiscal year. The Board may amend the budget at any regular or special meeting; provided however, that prior to approving any budget amendment that increases the total budget for any fiscal year (other than a budget amendment appropriating grant funds or the proceeds of debt obligations), the Board shall provide notice and conduct an additional public hearing in the manner described above.

**Tampa Bay Water – 2016 Annual Budget  
Annual Budget Development**

**Annual Budget Process**

The Budget Administrator has the overall responsibilities of coordinating and managing the annual budget development process. Typically, Tampa Bay Water’s annual budget development and approval process (for the ensuing fiscal year) runs from November to June of the current fiscal year – essentially, the annual budget development process starts approximately eleven (11) months prior to the beginning of the fiscal year for which the budget is being developed.

Key milestones for the annual budget development and approval process are presented below:

<b>Month</b>	<b>Key Activities</b>	<b>Responsible Entity</b>
2 <sup>nd</sup> week of November	<ul style="list-style-type: none"> <li>▪ Initiate the annual budget development process</li> <li>▪ Request any changes (+/-) in the annual budget request for the ensuing Fiscal Year (compared to the current Fiscal Year budget)</li> <li>▪ Request any changes (+/-) in the annual budget request and/or format for the ensuing Fiscal Year from Tampa Bay Water’s Member Governments</li> </ul>	<ul style="list-style-type: none"> <li>▪ Tampa Bay Water Budget Administrator</li> <li>▪ Tampa Bay Water Executive Team and Department Managers</li> <li>▪ Tampa Bay Water’s Member Governments</li> </ul>
1 <sup>st</sup> week of December	<ul style="list-style-type: none"> <li>▪ Receive and incorporate information regarding potential changes (+/-) in the annual budget request and/or format for the ensuing Fiscal Year</li> </ul>	<ul style="list-style-type: none"> <li>▪ Tampa Bay Water Budget Administrator</li> </ul>
2 <sup>nd</sup> week of December	<ul style="list-style-type: none"> <li>▪ Request Member Governments to provide information/cost estimate regarding any special or unusual program need(s) for the ensuing Fiscal Year</li> </ul>	<ul style="list-style-type: none"> <li>▪ Tampa Bay Water Budget Administrator</li> </ul>
2 <sup>nd</sup> week in December	<ul style="list-style-type: none"> <li>▪ Distribute the annual budget packet to Executive Team and Department Managers for review</li> </ul>	<ul style="list-style-type: none"> <li>▪ Tampa Bay Water Budget Administrator</li> </ul>
4 <sup>th</sup> week of December	<ul style="list-style-type: none"> <li>▪ Identify special program needs, if any, and provide cost estimate for special program needs for the ensuing Fiscal Year</li> <li>▪ Receive and incorporate information regarding special program needs as submitted by the Member Governments</li> </ul>	<ul style="list-style-type: none"> <li>▪ Tampa Bay Water Member Governments</li> <li>▪ Tampa Bay Water Budget Administrator</li> </ul>
2 <sup>nd</sup> week of January	<ul style="list-style-type: none"> <li>▪ Submit the annual budget request for the ensuing Fiscal Year to the Finance Department</li> </ul>	<ul style="list-style-type: none"> <li>▪ Tampa Bay Water Executive Team and Department Managers</li> </ul>
4 <sup>th</sup> week of January	<ul style="list-style-type: none"> <li>▪ Distribute the preliminary draft budget for the ensuing Fiscal Year to the Executive Team, and Office of General Manager for their review and comment</li> </ul>	<ul style="list-style-type: none"> <li>▪ Tampa Bay Water Budget Administrator</li> </ul>

**Tampa Bay Water – 2016 Annual Budget  
Annual Budget Development**

<b>Month</b>	<b>Key Activities</b>	<b>Responsible Entity</b>
1 <sup>st</sup> week of February	<ul style="list-style-type: none"> <li>▪ Provide Tampa Bay Water with an updated Annual Report, in the form provided in Exhibit K of the Amended and Restated Interlocal Agreement, setting forth the next five Fiscal Years of projected Water service demand for their respective service area.</li> </ul>	<ul style="list-style-type: none"> <li>▪ Tampa Bay Water Member Governments</li> </ul>
2 <sup>nd</sup> week of February	<ul style="list-style-type: none"> <li>▪ Request an update from Member Government regarding any project and/or program related changes, if any, since the last update in December</li> </ul>	<ul style="list-style-type: none"> <li>▪ Tampa Bay Water Budget Administrator</li> <li>▪ Tampa Bay Water Member Governments</li> </ul>
2 <sup>nd</sup> week of February	<ul style="list-style-type: none"> <li>▪ Meet with all members of the Executive Team, Department Managers and the General Manager to review the annual budget requirement for the ensuing Fiscal Year</li> </ul>	<ul style="list-style-type: none"> <li>▪ Tampa Bay Water Budget Administrator</li> <li>▪ Tampa Bay Water Executive Team, Department Managers and General Manager</li> </ul>
3 <sup>rd</sup> week of February	<ul style="list-style-type: none"> <li>▪ Incorporate any changes (+/-) to the annual budget request which resulted from meetings with the Executive Team, Department Manager, and the General Manager</li> </ul>	<ul style="list-style-type: none"> <li>▪ Tampa Bay Water Budget Administrator</li> </ul>
4 <sup>th</sup> week of February	<ul style="list-style-type: none"> <li>▪ General Manager meets with Executive Team to review program plans and outstanding issues regarding the annual budget for the ensuing Fiscal Year</li> </ul>	<ul style="list-style-type: none"> <li>▪ Tampa Bay Water General Manager, Executive Team, and Finance Manager</li> </ul>
1 <sup>st</sup> week of March	<ul style="list-style-type: none"> <li>▪ Finalize any changes (+/-) to the annual budget request for the ensuing Fiscal Year based on feedback received from the General Manager</li> </ul>	<ul style="list-style-type: none"> <li>▪ Tampa Bay Water Budget Administrator</li> </ul>
2 <sup>nd</sup> week of March	<ul style="list-style-type: none"> <li>▪ Prepare and distribute the bound copies of the annual budget for the ensuing Fiscal Year to Tampa Bay Water staff, Member Governments and Board</li> </ul>	<ul style="list-style-type: none"> <li>▪ Tampa Bay Water Budget Administrator</li> </ul>

**Tampa Bay Water – 2016 Annual Budget  
Annual Budget Development**

<b>Month</b>	<b>Key Activities</b>	<b>Responsible Entity</b>
1 <sup>st</sup> and 2 <sup>nd</sup> week of April	<ul style="list-style-type: none"> <li>▪ Meet with Member Governments representatives to discuss the proposed annual budget for the ensuing Fiscal Year</li> <li>▪ Incorporate comments/suggestions regarding the annual budget which resulted from meetings with Member Governments</li> <li>▪ Prepare documents for Board workshop</li> </ul>	<ul style="list-style-type: none"> <li>▪ Tampa Bay Water Budget Administrator; Finance Manager</li> <li>▪ Tampa Bay Water Budget Administrator</li> <li>▪ Tampa Bay Water Budget Administrator</li> </ul>
3 <sup>rd</sup> week of April	<ul style="list-style-type: none"> <li>▪ Conduct a Board workshop to discuss the annual budget proposal for the ensuing Fiscal Year</li> </ul>	<ul style="list-style-type: none"> <li>▪ Tampa Bay Water General Manager</li> </ul>
2 <sup>nd</sup> or 3 <sup>rd</sup> week of May	<ul style="list-style-type: none"> <li>▪ Present the preliminary annual budget for Tampa Bay Water for the ensuing Fiscal Year</li> <li>▪ Schedule and issue a notice for the public hearing for the final budget approval</li> </ul>	<ul style="list-style-type: none"> <li>▪ Tampa Bay Water General Manager</li> <li>▪ Tampa Bay Water Chief Financial Officer, and Budget Administrator</li> </ul>
2 <sup>nd</sup> or 3 <sup>rd</sup> week of June	<ul style="list-style-type: none"> <li>▪ Obtain Board’s approval for the final annual budget for Tampa Bay Water for the ensuing Fiscal Year</li> </ul>	<ul style="list-style-type: none"> <li>▪ Tampa Bay Water General Manager</li> </ul>

**Major Responsibilities**

The annual budget development process for Tampa Bay Water is a group effort that relies on regular interactions between division officers, senior managers, department managers, the General Manager, General Counsel, and the Budget Administrator. Additionally, the Budget Administrator works closely with representatives of Member Governments to seek their input during the annual budget development process.

A high level summary of major roles and responsibilities of various entities involved in the annual budget development process is presented below.

• **Tampa Bay Water – Budget Administrator**

The Budget Administrator has the overall responsibility for coordinating and managing the annual budget development process. The major responsibilities of the Budget Administrator include:

- Prepare the necessary summary reports of prior fiscal year budget allocations and year-to-date actual expenses by major categories for all divisions, departments and offices – information provided in these summary reports serve as a basis for developing budgetary estimates for the ensuing fiscal year.

## Tampa Bay Water – 2016 Annual Budget Annual Budget Development

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- Distribute the relevant summary reports to divisions, departments and offices.
  - Set up and maintain the budget model to collect and process the annual budget data/information by categories for the ensuing fiscal year as received from divisions, departments and offices.
  - Review the annual budgetary estimates prepared by divisions, departments and offices for the ensuing fiscal year.
  - Identify and document a list of potential modifications to the annual budgetary requirements for divisions, departments and offices for the ensuing fiscal year based on prior fiscal year budget allocations, actual expenses, and guidelines established by the Chief Financial Officer, Finance Manager, and General Manager (e.g., impact on Member Governments of potential rate increase, keeping the total increase in the annual budget to a manageable level, etc.).
  - Meet with the department managers and staff to review the annual budgetary estimates for the ensuing fiscal year for their respective division/department/office.
  - Meet with division Officers, Senior Managers and General Manager to review the proposed budget requirements for the ensuing fiscal year.
  - Revise the budget estimates, as necessary, based on the feedback received from the executive leadership and senior management of Tampa Bay Water.
  - Prepare and distribute copies of the annual budget estimate for the ensuing fiscal year to Tampa Bay Water management, Member Governments and the Board.
  - With the Finance Manager meet with the representatives of Member Governments to review the annual budget estimates for the ensuing fiscal year.
  - Review potential concerns/comments/suggestions expressed by Member Governments regarding the annual budget estimate for the ensuing fiscal year with the Chief Financial Officer and General Manager, as necessary.
  - Incorporate all changes to the preliminary budget estimate for the ensuing fiscal year that are approved by the General Manager and/or the Chief Financial Officer.
  - Verify the annual budget's compliance with the terms specified in the Master Water Supply Contract, the Amended and Restated Interlocal Agreement, and provisions of the Financing Documents.
  - Prepare and distribute the final budget for the ensuing fiscal year.
- **Tampa Bay Water – Executive Team and Department Managers**

The Executive Team, department managers, the General Manager and a representative for General Counsel are responsible for the following activities for their respective division/department/office:

## Tampa Bay Water – 2016 Annual Budget Annual Budget Development

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- Review the current fiscal year budget allocation against the year-to-date actual expenses by major categories.
- Identify, estimate and document anticipated changes (+/-) in the annual budgetary requirements (both capital and operating budget) for the ensuing fiscal year due to change in program(s) and/or project(s) requirements.
- Estimate and document potential changes (+/-) in the annual budgetary requirements for the ensuing fiscal year due to anticipated changes in operations, costs and/or quantities of materials/supplies required, consulting support services, etc.
- Prepare a preliminary budget estimate (both capital and operating budget) for the ensuing fiscal year.
- Input the annual budget estimates for the ensuing fiscal year by budget category and sub-category in the budget model.
- Meet with the Budget Administrator to discuss the annual budget requirements for the ensuing fiscal year.
- Support the Budget Administrator and the Finance Manager in their efforts to prepare the final budget for the ensuing fiscal year.

- **Member Governments**

Tampa Bay Water's Member Governments have the following responsibilities in the annual budget development process:

- Provide the next five fiscal years of projected water services demand for their respective service area to Tampa Bay Water (use the form provided in Exhibit K of the Amended and Restated Interlocal Agreement).
- Identify and communicate any special program needs, which could have an impact on the annual budget request, for the ensuing fiscal year to Tampa Bay Water.
- Review the preliminary annual budget request for the ensuing fiscal year, and provide any comments/suggestions to the Budget Administrator.

- **Tampa Bay Water – Board**

Tampa Bay Water Board has the final authority to approve the annual budget request. The Board has the following responsibilities in the annual budget development and approval process:

- Review the tentative budget for Tampa Bay Water covering its operating and financial requirements for the ensuing fiscal year.
- Provide comments/suggestions, as necessary, to Tampa Bay Water's Budget Administrator, Finance Manager, and Executive Team regarding the annual budget request for the ensuing fiscal year.

## Tampa Bay Water – 2016 Annual Budget Annual Budget Development

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- Publish a notice of its intention to adopt the budget for the ensuing fiscal year during the scheduled public meeting.
- Conduct a public hearing and adopt the final budget and rates with any amendments it deems advisable.

### **Budget Implementation**

The approved annual budget is input to the Agency's financial accounting system at the beginning of each fiscal year. The system provides accountability and reporting of purchase order encumbrances and actual expenditures versus the approved budget. Agency staff, together with the Budget Administrator, monitor compliance with the budget. At year end, encumbrances which represent on-going contractual commitments are carried over to the succeeding fiscal year until the commitment is completed. Encumbrances which terminate at the end of the fiscal year are closed out at year end.

### **Budget Amendments**

Agency policy allows the transfer of budget between sub-categories within a single budgetary category (e.g. within Professional Services from Hydrological Services to Ecological Services) with the approval of the General Manager. Transfers of budget between major categories (e.g. from Professional Services to Materials & Supplies or to Repairs & Other Services) must be submitted to the Agency's board for approval regardless of dollar amount. Any increase to the total budget also requires Board approval and a public hearing.



# Financial Management Policies

Fiscal Year 2016

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The Financial Policies section provides a summary of Tampa Bay Water's primary financial policies.

**Tampa Bay Water – 2016 Annual Budget**  
**Financial Management Policies**

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The financial policies are intended as a guide to financial stewardship of Tampa Bay Water. The policies will guide essential decisions affecting budget and financial matters to ensure the Agency is financially prepared to meet the Board's immediate and long-term service objectives.

**Utility Reserve Fund (Fund Balance) Policy**

To provide adequate operating capital at all times, Tampa Bay Water shall maintain, at a minimum, a Utility Reserve Fund sufficient to cover 10% of yearly budgeted Gross Revenue (as defined in Tampa Bay Water's bond covenants), exclusive of revenue from government grants, whether such grants are received for capital improvement or operating purposes. The balance in the Utility Reserve Fund shall also be maintained at levels sufficient to insure that Tampa Bay Water complies with its bond covenant requirements including a requirement that Net Revenues plus Fund Balance (unencumbered monies on deposit in the Utility Reserve Fund on the preceding September 30<sup>th</sup>) be equal to or greater than 125% of annual debt service coming due in the fiscal year. A higher coverage may be established by the Board if circumstances warrant such coverage.

To insure compliance with Master Water Supply requirements, any Gross Revenues which remain on deposit at the end of the fiscal year and which are not required to pay liabilities existing at the end of the fiscal year (unexpended funds) shall be deposited to the Utility Reserve Fund. The Director of Finance & Administration will evaluate the adequacy of the Utility Reserve Fund balance as it relates to both the current year and the succeeding budget year debt covenant calculations. Monies deposited to the Utility Reserve Fund will remain in the Utility Reserve Fund to the extent they are needed to maintain compliance with bond covenants and as required by the Utility Reserve Fund Policy.

**Rate Stabilization Account Policy**

The Master Water Supply Contract allows the Board to establish a Rate Stabilization account. After meeting the Utility Reserve Fund requirements, any additional funds deposited to the Utility Reserve Fund at the end of the fiscal year shall be transferred to the Rate Stabilization Account and accounted for as deferred revenues of the fiscal year in which the revenues were accrued. Such transfer and accounting must be made no later than 90 days after the end of the fiscal year in which the funds were accrued and must be approved by the General Manager.

The lesser of (a) 3% of budgeted revenue of the year just ended or (b) the amount of encumbrances being carried forward or (c) the amount of monies deposited to the Rate Stabilization Account may be applied as Revenue in the first succeeding fiscal year, with the approval of the General Manager. Such funds are to be used for purposes of funding encumbrances carried forward and/or other approved activities. Encumbrances which exist at the end of the fiscal year just ended and which are being funded from the Uniform Rate may also be carried to the first succeeding fiscal year with the approval of the General Manager to allow for completion of tasks that were budgeted and approved in the fiscal year just ending.

Any monies placed in the Rate Stabilization Account in excess of the 3% of budgeted revenue amount will be applied to the first succeeding fiscal year either to pay expenditures of the first succeeding fiscal year for which rates are collected or to remain in the Rate Stabilization Account for

**Tampa Bay Water – 2016 Annual Budget**  
**Financial Management Policies**

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use in a subsequent year. Any application of these monies in excess of 3% requires approval of the Board of Directors.

To the extent that any monies are utilized from the Rate Stabilization Account to fund expenditures currently provided for in the Uniform Rate, the rate being charged will be modified to take this funding into account.

**Fixed Asset Policy**

The Chief Financial Officer is responsible for establishing the policies and procedures necessary to provide adequate internal control over Fixed Assets. Policies and procedures shall be approved by the General Manager. Statements of policy shall be submitted to the Board of Directors for review. All Fixed Assets acquired by the Agency shall be titled to the Agency and recorded in the Fixed Assets records system. At a minimum, the Fixed Assets records system shall contain the applicable information required by regulatory bodies. (Reference: Fla. Statutes, Chap. 274.02; Rules of the Auditor General, Chap. 10.450). An annual physical inventory of all movable equipment shall be taken under the direction of the finance department and reconciled to the fixed asset records and general ledger control accounts in accordance with Fla. Statutes, Chap. 274.02 and Rules of the Auditor General, Chap. 10.480).

**Debt Policy**

The Agency's debt policy permits the following: (a) issuance of debt obligations on behalf of Tampa Bay Water to finance the construction or acquisition of infrastructure and other assets for the purpose of meeting its water supply obligations to the member governments; and (b) issuance of debt obligations to refund outstanding debt when market conditions indicate at least a 3% present value savings or when other management considerations, as recommended by the agency's financial advisors, indicate the refunding is appropriate. The debt policy requires that debt obligations be issued and administered in such a manner as to insure and sustain the long-term financial integrity of Tampa Bay Water and to achieve the highest possible credit rating for the Agency. Debt obligations must be consistent with the Board's Derivative Policy. Also, debt obligations shall not be issued and debt proceeds shall not be used to finance current operations without specific action of the Board and concurrence of the Agency's Bond Counsel as to the appropriateness of that action.

There is no legal limitation on the amount of debt that the Agency can issue. However, the Agency must be able to demonstrate that it can repay the debt from the revenues generated from water sales or other approved sources.

Tampa Bay Water's procedures for effective management of debt are as follows:

- Comply with all debt covenants and requirements of the bond resolution
- Evaluate potential refinancing of debt when present value savings equal or exceed 3% of current debt service
- Issue new debt at the most beneficial interest rates and only when required for financing of the Capital Improvement Program

## **Tampa Bay Water – 2016 Annual Budget Financial Management Policies**

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- Maintain favorable bond ratings by effectively communicating the financial condition of Tampa Bay Water to rating agencies, bond holders and the public
- Utilize cooperative funding through grant programs whenever possible to reduce borrowing
- Schedule debt service payments to provide for gradual impacts on the uniform rate charged to the member governments over a period not to exceed the lesser of the useful life of the project or thirty years

### **Investment Policy**

The objectives of the Agency's investment policy are safety, liquidity and return on investment. The primary objective is safety, i.e. the minimization of risk and the preservation and protection of investment principal. The second objective is to maintain sufficient liquidity at all times to meet all cash requirements that can reasonably be anticipated. The third objective is to maximize investment return, but only within the constraints of the first two objectives. The investment policy also establishes allowable investments, investment providers, and investment concentrations in furtherance of these objectives. The Agency currently maintains all of its deposit accounts in accounts that qualify as Public Deposit accounts as defined by Florida Statutes or have been purchased from Securities Investor Protection Corporation (SIPC) brokers/dealers with a long term issuer rating in the "A" category or higher from both Standard & Poor's and Moody's Rating Services.

### **Accounting, Auditing and Financial Reporting Policies**

Tampa Bay Water maintains a system of financial monitoring, control, and reporting for its operations and resources to provide an effective means of insuring that Agency goals and objectives are met.

- **Auditing:**

Each year the Agency has an annual financial audit performed by an independent certified public accounting firm. The results of this audit are included with the Agency's annual financial statements and are reported to the Board no later than March 1<sup>st</sup> of the subsequent year. The audited financial statements are available on the Tampa Bay Water website.

The Agency's independent auditors are selected in accordance with the Agency's Auditor Selection Policy and applicable Florida Statutes.

- **Basis of Accounting and Accounting Systems:**

The Agency's financial records and the annual financial statements are maintained on the accrual basis of accounting, consistent with Generally Accepted Accounting Principles (GAAP) and Governmental Accounting Standards Board (GASB) pronouncements applicable to an enterprise fund. In addition, the Agency follows the rules of the Auditor General of the State of Florida which are applicable to the Agency and utilizes the State of Florida Uniform Accounting System. The Agency's accounting system also includes an encumbrance system for tracking purchase commitments.

**Tampa Bay Water – 2016 Annual Budget  
Financial Management Policies**

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- **Performance Audit:**

The Agency is required to have a performance audit and management study of its operations at five year intervals. The performance audit and management study reviews program results and makes recommendations regarding the Agency's governance structure and the proper, efficient, and economical operation and maintenance of the Agency's water supply facilities. The latest performance audit was completed in fiscal year 2010. The 2015 budget provided funding for a 2015 performance audit, which is currently being conducted by KPMG, LLP.

## Financial Plan

Fiscal Year 2016

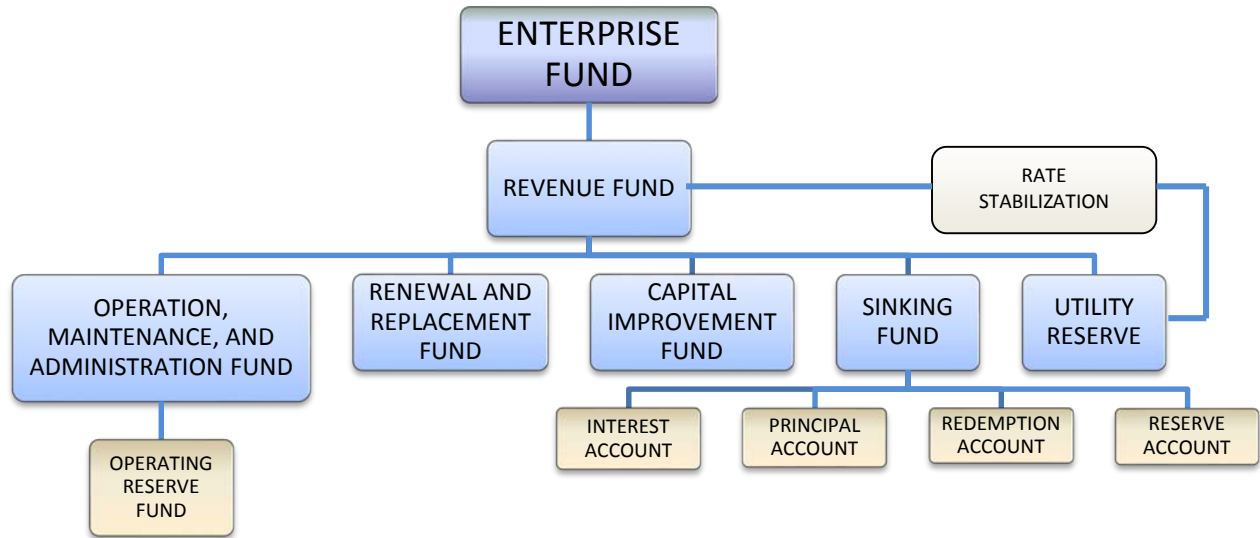
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The Financial Plan section provides an overview of Tampa Bay Water's budgetary fund structure and information on revenue and expenditures, as well as capital spending for the budget year.

# Tampa Bay Water – 2016 Annual Budget Financial Plan

## Funds Structure Overview

Tampa Bay Water consists of one major Enterprise Fund. For accounting purposes the Enterprise Fund is further broken down into additional funds and accounts.



1. The Revenue Fund is the initial depository for all Agency revenue. Revenue is transferred to other funds as required.
2. The Operation, Maintenance, and Administration Fund is used to pay all operating and administrative costs of the Agency. The Operation, Maintenance and Administration Fund includes the Operating Reserve Fund.
3. The Renewal and Replacement Fund is used for repairs and replacement of the System as the need arises and as approved by the Board.
4. The Capital Improvement Fund is used to pay costs of various capital projects as designated by the Board.
5. The Sinking Fund holds all Agency funds restricted to payment of Agency debt. The Sinking Fund consists of four (4) accounts: Interest Account, Principal Account, Redemption Account, and Reserve Account. The Interest, Principal, and Redemption Accounts are funded annually from Revenues and are used annually to pay debt service. The Reserve Account is fully funded from bond proceeds and generally changes only when new debt is issued or an outstanding bond issue is redeemed.
6. The Utility Reserve Fund is used for transfers in of any unexpended funds remaining at the end of a fiscal year. The fund balance is maintained at a balance sufficient to meet bond coverage requirements and operating capital needs. The Utility Reserve may be used for any lawful purpose relating to the System, including funding of the Rate Stabilization Account

## Reserves and Restricted Funds

Tampa Bay Water maintains the following funds and accounts to comply with requirements of the financing documents and the Master Water Supply Contract.

## Tampa Bay Water – 2016 Annual Budget Financial Plan

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- **Operating Reserve** – Tampa Bay Water maintains Operating Reserve Funds. The amount of Operating Reserve Funds shall not exceed an amount equal to two times the monthly average Variable Costs as provided in Tampa Bay Water’s annual budget.

Investment earnings on the Operating Reserve remain in the account until the funding requirement is fully met and then may be used for any lawful purpose.

The Operating Reserve balance at October 1, 2015 is estimated to be \$4,476,199. Variable costs for fiscal year 2016 are estimated to be \$24,213,697. Two months of variable costs will equal \$4,035,616. Therefore; a transfer of \$440,583 will be made to the Rate Stabilization account at the start of fiscal year 2016 to bring the Operating Reserve to a level equal to two months of variable costs.

- **Renewal and Replacement Fund** – Tampa Bay Water is required to maintain an amount equal to five (5) percent of the prior fiscal year’s Gross Revenues or such other amount as is certified by the Consulting Engineer. These funds are available to be used for repair and/or replacement of the System as the need arises. The Renewal and Replacement Fund provisions are reviewed annually by the System Engineer.

Investment earnings in the Renewal and Replacement Fund remain in the fund until the funding requirement is met. Investment earnings in excess of the funding requirement are deposited into the Revenue Fund and are available for any lawful purpose.

The Renewal and Replacement fund balance at October 1, 2015 is estimated at \$24,294,139. Tampa Bay Water has developed a Renewal and Replacement Program that identifies all critical components of the water delivery system. The program assists in developing a schedule for replacing or improving components in order to maintain the reliability of the system. The current estimate for program projects that will be scheduled during 2016 is \$5,018,329. A portion of the Renewal and Replacement Funds used in fiscal year 2015 will be reimbursed in fiscal year 2016. The estimated amount to be reimbursed is \$3,000,000.

- **Capital Improvement Fund** – Capital Improvement charges collected or other funds received which are designated by the Board as Capital Improvement Funds are deposited to this fund. The Capital Improvement Fund balance at October 1, 2015 is estimated at \$6,748,728. These funds are budgeted in conjunction with the Capital Improvement Program. The current program estimated that projects funded with Capital Improvement Funds during fiscal year 2016 will total \$3,340,093.

- **Sinking Fund Interest and Principal Accounts** – Funds collected to pay annual interest and principle on debt are deposited into the accounts and expended for debt service payments as they come due. Investment earnings on the accounts remain in the accounts and are used to pay debt payments. Funds in the account at the end of the fiscal year are used to pay debt due on October 1<sup>st</sup> of the new fiscal year. The estimated account balance at year end 2015 is \$50,237,564.

- **Sinking Fund Debt Service Reserve Account** – Tampa Bay Water is required to fund and maintain an amount equal to the lesser of maximum annual aggregate debt service coming due in any fiscal year or 125% of the average annual debt service over the life of the Bonds



## Tampa Bay Water – 2016 Annual Budget Financial Plan

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outstanding. These funds may be used only to satisfy an insufficiency in the Debt Service Account until such time as the Bonds are paid off. When the amount of cash in the Reserve Account together with other amounts in the Debt Service Accounts, are sufficient to fully pay all outstanding Bonds in accordance with their terms, the funds on deposit in the Reserve Account may be used for payment of the Bonds. This reserve is fully funded.

Investment earnings on the Reserve Account remain in the account until the Reserve Requirement is fully met. Investment earnings in excess of the Reserve Requirement are deposited into the Revenue Fund and are available for any lawful purpose.

- **Utility Reserve Fund** – Tampa Bay Water is required to transfer any unexpended funds remaining at the end of each fiscal year to the Utility Reserve Fund. The fund is maintained at balances sufficient to meet bond coverage requirements and operating capital needs. The Utility Reserve Fund may be used for any lawful purpose relating to the System.

Investment earnings in the Utility Reserve Fund remain in the fund and may be applied for any lawful purpose.

- **Rate Stabilization Account** – The Rate Stabilization Account is funded from amounts established by the annual budget or approved by the Board. The fund is used to maintain changes in the Uniform Rate at more consistent levels.

Investment earnings in the Rate Stabilization Account remain in the account and may be applied for any lawful purpose.

The Rate Stabilization account balance at October 1, 2015 is estimated at \$21,320,851 and is available for reduction of current and future year rates to the extent that it has not been designated by the Board for specific purposes including unanticipated legal and mitigation costs. It is anticipated that a total of \$8,085,243 will be withdrawn from the Rate Stabilization account in fiscal year 2016. A transfer of \$440,583 from the Operating Reserve will be deposited in the Rate Stabilization account. A withdrawal of \$3,200,826 is equal to the estimated amount of unexpended 2015 funds that will carry-forward into fiscal year 2016. Funds available for carry-forward are withdrawn from the Rate Stabilization fund. A withdrawal of \$5,325,000 will be used to offset operating costs.

- **Rebate Fund** – Interest earned on Construction Funds which exceeds allowable earnings under IRS arbitrage regulations may result in rebatable arbitrage to the IRS. When a liability for rebatable arbitrage is incurred, funds owing to the IRS are placed in the Rebate Fund. These funds and interest earned thereon remain in the fund until the liability to the IRS is satisfied.

**Tampa Bay Water – 2016 Annual Budget  
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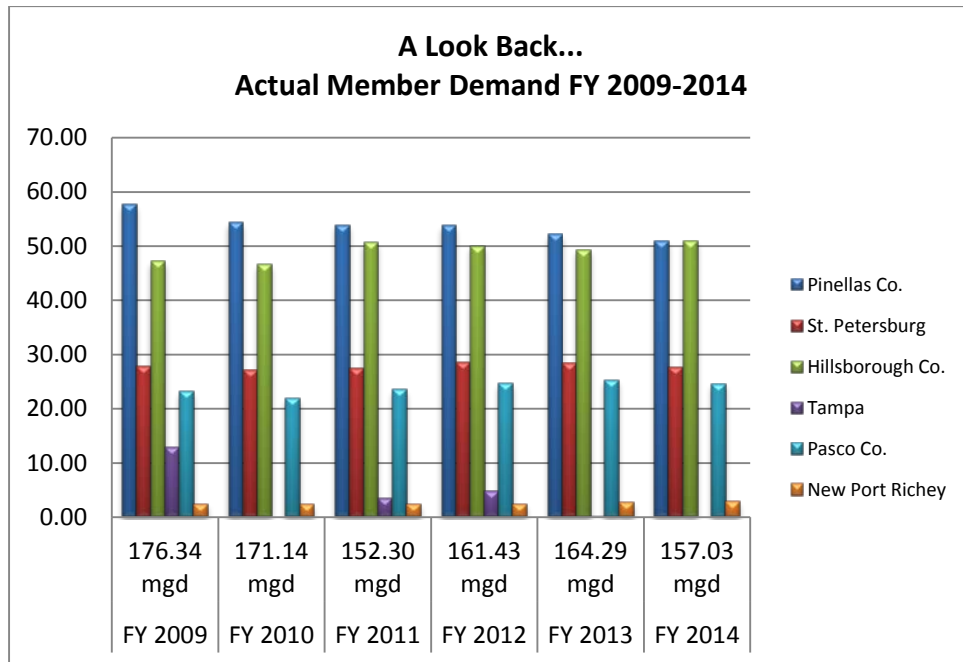
**Tampa Bay Water  
Projected Changes in Fund Equity  
Budget Year 2016**

	Operations	Operating Reserve	Renewal and Replacement Fund	Capital Improvement Fund	Sinking Funds		Utility Reserve Fund	Rate Stabilization Account	Rebate Fund	Total Enterprise Fund
					Interest & Principal Accounts	Debt Service Account				
<b>Est. Beginning Fund Balance</b>	9,088,697	4,476,199	24,294,139	6,748,728	50,237,564	73,716,549	25,005,185	21,320,851	-	214,887,912
<b>Revenues</b>										
Water Sales	153,602,133	-	-	-	-	-	-	-	-	153,602,133
Interest Earned	36,355	17,905	97,177	26,995	200,950	294,866	100,021	85,283	-	859,552
Lake Bridge O&M - Pasco	42,000	-	-	-	-	-	-	-	-	42,000
<b>Expenditures</b>										
Fixed Cost	(53,095,304)	-	-	-	-	-	-	-	-	(53,095,304)
Variable Costs	(24,213,697)	-	-	-	-	-	-	-	-	(24,213,697)
Debt Service - Bonds	-	-	-	-	(72,193,791)	-	-	-	-	(72,193,791)
Debt Service - Acquisition Credits	(10,231,558)	-	-	-	-	-	-	-	-	(10,231,558)
Water Quality Credits	(48,000)	-	-	-	-	-	-	-	-	(48,000)
<b>Capital Project Expenditures</b>										
Capital Improvement Fund Projects	-	-	-	(3,340,093)	-	-	-	-	-	(3,340,093)
Renewal & Replacement Fund	(5,018,329)	-	-	-	-	-	-	-	-	(5,018,329)
<b>Interfund Transfers</b>										
Transfer interest available for operations	823,197	(17,905)	(97,177)	(26,995)	(200,950)	(294,866)	(100,021)	(85,283)	-	-
Transfer from Operations to Debt Service Fund	(72,413,958)	-	-	-	72,413,958	-	-	-	-	-
Transfer from Rate Stabilization Account	8,525,826	(440,583)	-	-	-	-	-	(8,085,243)	-	-
Transfer from Renewal & Replacement	5,018,329	-	(5,018,329)	-	-	-	-	-	-	-
Transfer to Renewal & Replacement	(3,000,000)	-	3,000,000	-	-	-	-	-	-	-
Transfer to Capital Improvement Fund	(26,995)	-	-	26,995	-	-	-	-	-	-
<b>Est. Ending Fund Balance</b>	<b>\$9,088,698</b>	<b>\$4,035,616</b>	<b>\$22,275,810</b>	<b>\$ 3,435,630</b>	<b>\$50,457,731</b>	<b>\$73,716,549</b>	<b>\$25,005,185</b>	<b>\$13,235,608</b>	<b>\$ -</b>	<b>\$201,250,826</b>

**Tampa Bay Water – 2016 Annual Budget  
Financial Plan**

**Financial Planning and Trends**

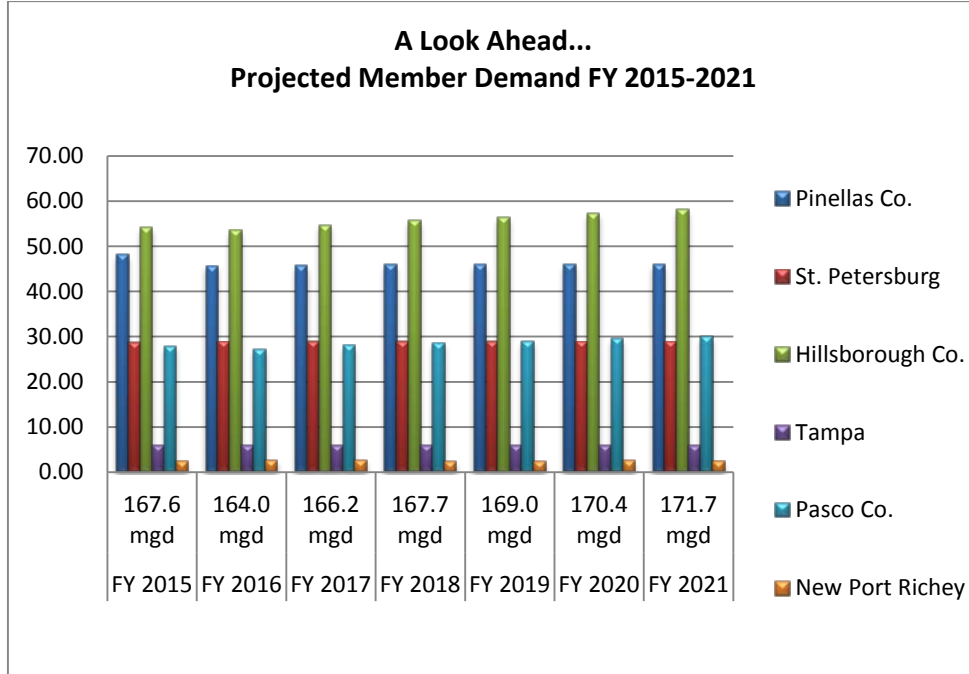
The Master Water Supply Contract requires Agency Members to annually provide a five-year estimate of projected water service demand for their respective service areas. Additionally, the Agency utilizes various demand forecasting tools to provide five-year water service demand projections for its Members' service areas. These projections take into consideration relevant factors such as historical rainfall patterns, demographics, population growth, and conservation measures. This information is utilized by management in developing the annual budget and five-year budget projections.



As a result of the long-term drought conditions prior to 2008, conservation measurements were put into action in the form of watering restrictions and public awareness announcements throughout the Tampa Bay Region. Strict conservation measures and sharp declines in growth lead to marked decreases in demand between 2009 and 2010. Normal rainfall conditions lead to the easing of strict watering restrictions in 2011. The Tampa Bay Region saw very little growth recovery between 2012 and 2013. The City of Tampa was able to supply their service area without purchasing any water from Tampa Bay Water in 2014.

**Tampa Bay Water – 2016 Annual Budget  
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Tampa Bay Water provides regional water demand forecasts for its six member governments to project the amount of water supply needed within Tampa Bay Water’s service area. The agency’s Long-term Demand Forecasting models are designed primarily for the purpose of long-term planning and forecasting over 20-30 year horizons.

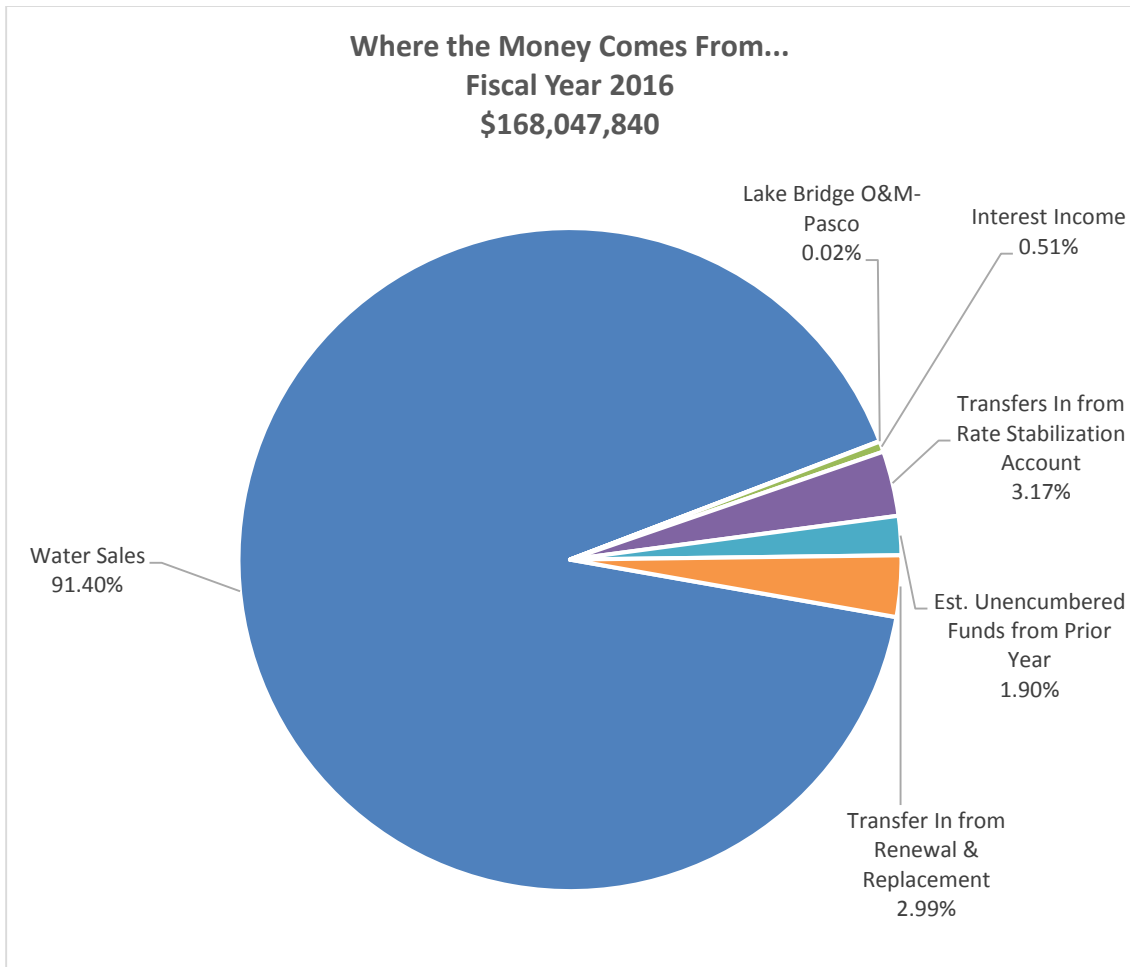
Member demand for the current year and future demand projections are based on average rainfall years. It is also projected that economic recovery will be slow to moderate resulting in gradual population growth and economic development for the Tampa Bay Region.

**Tampa Bay Water – 2016 Annual Budget  
Financial Plan**

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**Revenues**

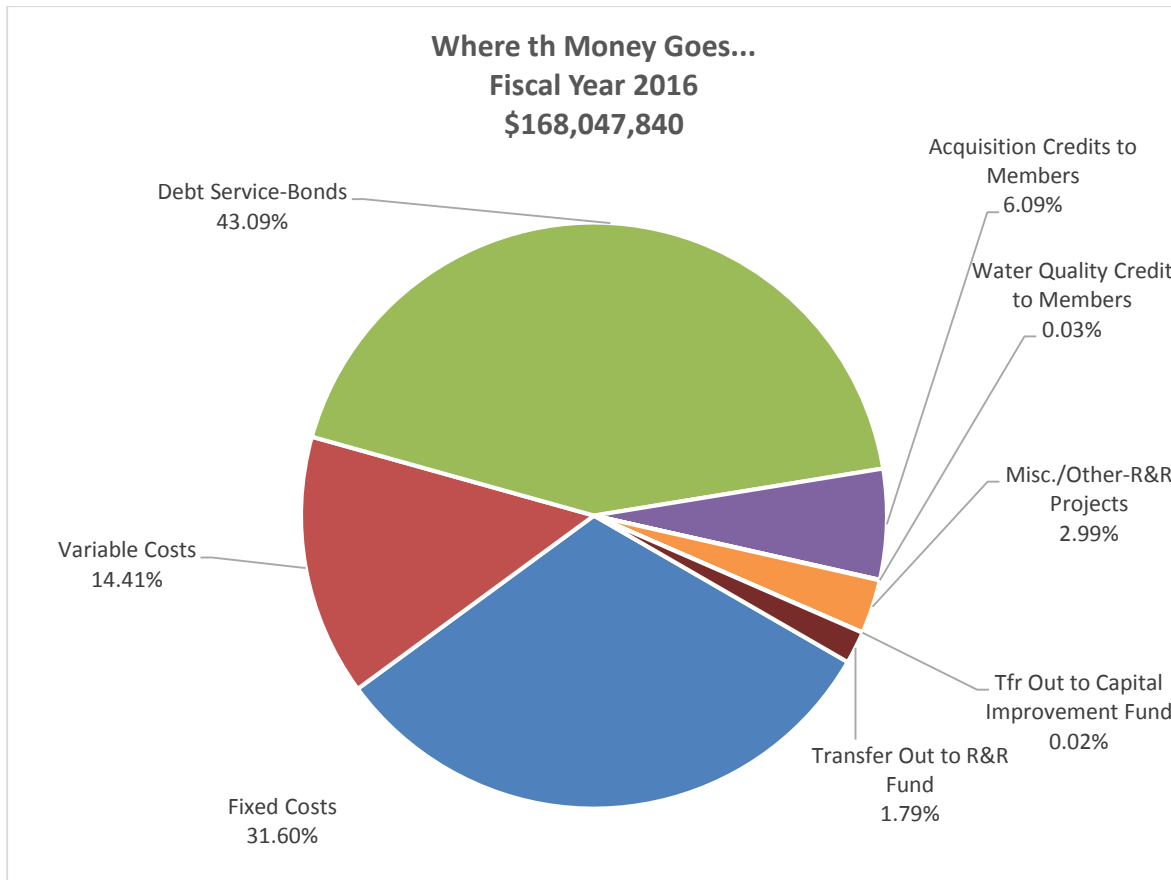
The Agency’s primary revenue source is sale of water to its six member governments. The Master Water Supply Contract establishes a budget process through which the Agency establishes an annual Uniform Rate which is charged to the Members. A fixed cost component of the rate is established and billed monthly to recover the defined fixed costs of the Agency based on the Members’ pro rata share of production. A variable cost component of the rate is established and billed monthly based on the current month’s production to recover the defined variable operating costs: primarily power, chemicals, and purchased water. Contract terms require that rates collected be sufficient to pay the annual water system operating and maintenance costs, annual debt service, and purchase of operating equipment, net of other available revenue sources. Rates must also be sufficient to fund required reserves and to provide adequate levels of working capital through the Utility Reserve and Operating Reserve Funds.



# Tampa Bay Water – 2016 Annual Budget Financial Plan

## Expenditures

Expenditure levels are established annually for operating and maintenance costs based on projected water service demands, permit and compliance requirements, and equipment needs. Expenditures are also budgeted to make debt service payments, to satisfy bond covenant and reserve funding requirements, and to fund capital improvement costs not funded by borrowing or grants. Purchasing is conducted in accordance with the Agency’s purchasing policies which prescribe procedures to obtain competitive pricing when appropriate.



## Balanced Budget

Tampa Bay Water’s annual budget is balanced. Our projected revenue is equal to our projected expenses.

**Tampa Bay Water – 2016 Annual Budget  
Financial Plan**

**Sources & Uses of Funds**  
**Actuals 2014, Approved 2015 and Approved**

Enterprise Funds	Actual 2014	Approved 2015	Approved 2016
<b>Sources of Funds</b>			
Water Sales	\$ 155,291,597	\$ 156,541,319	\$ 153,602,133
Additional Credits/ Surcharges	42,000	42,000	42,000
TBC - Sale of Water	-	581,260	-
Interest Income	640,275	877,424	859,552
Litigation & Insurance Recoveries	22	-	-
Miscellaneous Income	244,769	-	-
<b>Subtotal</b>	<b>\$ 156,218,664</b>	<b>\$ 158,042,003</b>	<b>\$ 154,503,685</b>
Transfers In from Rate Stabilization Account	8,129,415	4,015,000	5,325,000
Est. Unencumbered Funds from Prior Year (note 1)	7,292,798	3,147,745	3,200,826
Transfer In from Capital Improvement	947,670	-	-
Transfer In from Renewal & Replacement	1,522,804	4,115,387	5,018,329
<b>Total Sources</b>	<b>\$ 174,111,351</b>	<b>\$ 169,320,135</b>	<b>\$ 168,047,840</b>
<b>Uses of Funds</b>			
Personnel Services	\$ 12,113,326	\$ 13,870,279	\$ 14,696,010
Materials & Supplies	2,242,137	2,736,393	2,554,905
Professional Services	24,412,952	27,521,186	27,555,065
Repairs & Other Services	4,058,524	4,312,637	4,405,332
Rent & Insurance	1,821,898	1,920,539	1,829,000
Legal Services	321,258	545,000	545,000
Capital Expenditures	2,335,197	1,466,788	1,509,992
Debt Service-Bonds	75,337,316	72,876,252	72,413,958
Acquisition Credit to Member Governments	10,231,558	10,231,558	10,231,558
Water Quality Credit to Member Governments	48,000	48,000	48,000
Misc./Other-R&R Projects	-	4,115,387	5,018,329
Water Treatment Chemicals -Variable Cost	8,250,112	11,769,355	10,665,878
Power / Electricity -Variable Cost	12,061,160	13,543,263	12,003,244
Water for Resale -Variable Cost	1,802,135	1,544,575	1,544,575
<b>Subtotal</b>	<b>\$ 155,035,573</b>	<b>\$ 166,501,212</b>	<b>\$ 165,020,845</b>
Transfer Out to Capital Improvement Fund	2,583,103	37,923	26,995
Transfer Out to R&R Fund	6,019,372	2,781,000	3,000,000
Transfer Out to Rate Stabilization Account	9,572,418	-	-
Transfer Out to Utility Reserve	900,885	-	-
<b>Total Uses</b>	<b>\$ 174,111,351</b>	<b>\$ 169,320,135</b>	<b>\$ 168,047,840</b>

**Note 1: FOR 2016, ESTIMATED UNENCUMBERED FUNDS FROM PRIOR YEAR ARE ESTIMATED AT 2% OF PRIOR YEAR WATER REVENUE FROM WATER SALES. FUNDS TRANSFER THROUGH THE RATE STABILIZATION ACCOUNT AT YEAR END. 2017-2021 ARE ESTIMATED AT 1.5% OF PRIOR YEAR WATER SALES.**

**Tampa Bay Water – 2016 Annual Budget  
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**Sources and Uses of Funds  
Budget Projections 2017 through 2021**

Enterprise Funds	Budget Projections				
	2017	2018	2019	2020	2021
<b>Sources of Funds</b>					
Water Sales	\$157,607,571	\$161,220,202	\$164,628,954	\$168,569,197	\$171,796,618
Additional Credits/ Surcharges	42,000	42,000	42,000	42,000	42,000
TBC - Sale of Water	-	-	-	-	-
Interest Income	945,159	1,098,243	1,364,653	1,563,418	1,824,591
<b>Subtotal</b>	<b>158,594,730</b>	<b>162,360,445</b>	<b>166,035,607</b>	<b>170,174,615</b>	<b>173,663,209</b>
Trfr. In from Rate Stabilization Account	3,600,000	2,400,000	4,300,000	3,000,000	2,500,000
Est. Unencumbered Funds from Prior Year	2,304,032	2,364,114	2,418,303	2,469,434	2,528,538
Trfr. In from Renewal & Replacement	6,645,179	4,449,743	671,372	3,000,000	3,000,000
<b>Total Sources</b>	<b>\$171,143,941</b>	<b>\$171,574,301</b>	<b>\$173,425,282</b>	<b>\$178,644,049</b>	<b>\$181,691,747</b>
<b>Uses of Funds</b>					
Personnel Services	\$ 15,283,850	\$15,895,204	\$16,531,013	\$17,192,253	\$17,879,943
Materials & Supplies	2,631,552	2,710,499	2,791,814	2,875,568	2,961,835
Professional Services	28,381,717	29,233,168	30,110,164	31,013,468	31,943,872
Repairs & Other Services	4,537,492	4,673,617	4,813,825	4,958,240	5,106,987
Rent & Insurance	1,883,870	1,940,386	1,998,598	2,058,556	2,120,312
Legal Services	561,350	578,191	595,536	613,402	631,804
Capital Expenditures	1,555,292	1,601,951	1,650,009	1,699,509	1,750,495
Debt Service-Bonds	72,087,696	72,091,416	75,084,545	75,095,482	75,096,447
Acquisition Credit to Member Govts.	10,231,558	10,231,558	10,231,558	10,231,558	10,231,558
Water Quality Credit to Member Govts	48,000	48,000	48,000	48,000	48,000
Misc./Other-R&R Projects	6,645,179	4,449,743	671,372	3,000,000	3,000,000
Water Trtmt Chemicals -Variable Cost	10,623,180	11,002,071	11,343,831	11,787,388	12,223,826
Power / Electricity -Variable Cost	12,066,307	12,471,167	12,858,314	13,325,375	13,750,667
Water for Resale -Variable Cost	1,590,912	1,638,640	1,687,799	1,738,433	1,790,586
<b>Subtotal</b>	<b>\$168,127,954</b>	<b>\$168,565,610</b>	<b>\$170,416,376</b>	<b>\$175,637,232</b>	<b>\$178,536,333</b>
Trfr. Out to Capital Improvement Fund	15,986	8,692	8,906	6,817	4,100
Transfer Out to R&R Fund	3,000,000	3,000,000	3,000,000	3,000,000	3,000,000
Transfer Out to Operating Reserve	-	-	-	-	151,314
<b>Total Uses</b>	<b>\$171,143,940</b>	<b>\$171,574,301</b>	<b>\$173,425,282</b>	<b>\$178,644,049</b>	<b>\$181,691,747</b>

Note 1: FOR 2016, ESTIMATED UNENCUMBERED FUNDS FROM PRIOR YEAR ARE ESTIMATED AT 2% OF PRIOR YEAR WATER REVENUE FROM WATER SALES. FUNDS TRANSFER THROUGH THE RATE STABILIZATION ACCOUNT AT YEAR END. 2017-2021 ARE ESTIMATED AT 1.5% OF PRIOR YEAR WATER SALES.

Note 2: AN INFLATION RATE RANGE OF 3.3% TO 5.5% IS USED FOR FUTURE COST PROJECTIONS WHERE STAFF BELIEVES THIS IS APPROPRIATE. COST PROJECTIONS ARE ALSO MODIFIED TO INCLUDE FIRST YEAR AND SUBSEQUENT YEAR OPERATING COSTS OF NEW FACILITIES CURRENTLY UNDER CONSTRUCTION. NO OPERATING COST PROVISION IS MADE FOR THOSE PROJECTS WHICH HAVE NOT BEEN SELECTED BY THE BOARD FOR CONSTRUCTION.



**Tampa Bay Water – 2016 Annual Budget  
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**Explanation of Significant Variances**

Budget Category	Approved 2015	Approved 2016	Variance +/-	Explanation of Variance
Personnel Services	\$ 13,870,279	\$14,696,010	\$ 825,731	Request for 4 new positions plus 1 co-op. Average of 4% merit increase. 13% increase in Health Insurance & Worker's Comp. Insurance Premiums
Materials & Supplies	2,736,393	2,554,905	(181,488)	Reduced fuel costs. Reduced requests for Materials and Supplies by the Monitoring & Mitigation Department the Laboratory.
Professional Services	27,521,186	27,555,065	33,879	
Repairs & Other Services	4,312,637	4,405,332	92,695	
Rent & Insurance	1,920,539	1,829,000	(91,539)	
Legal Services	545,000	545,000	-	
Capital Expenditures	1,466,788	1,509,992	43,204	
Debt Service-Bonds	72,876,252	72,413,958	(462,295)	Refinance of Series 2011 A&B Bonds
Acquisition Credit to Member Governments	10,231,558	10,231,558	-	
Water Quality Credit to Member Governments	48,000	48,000	-	
Misc./Other-R&R Projects	4,115,387	5,018,329	902,942	R&R Program 2016
Water Treatment Chemicals -Variable Cost	11,769,355	10,665,878	(1,103,477)	Lower demand reduces chemical costs
Power / Electricity -Variable Cost	13,543,263	12,003,244	(1,540,019)	Lower demand reduces electric costs
Water for Resale -Variable Cost	1,544,575	1,544,575	-	
Transfer Out to Capital Improvement Fund	37,923	26,995	(10,928)	
Transfer Out to R&R Fund	2,781,000	3,000,000	219,000	
<b>Grand Total</b>	<b>\$ 169,320,135</b>	<b>\$ 168,047,840</b>	<b>\$(1,272,295)</b>	

The budget for 2016 decreased (\$1,272,295) over the approved 2015 budget.

The predominant significant decreases in the 2016 budget are in variable costs. The projected water demand for fiscal year 2016 is 164 million gallons per day (mgd) compared to a projected demand of 167.6 mgd in 2015. Variable costs are projected to decrease a total of (\$2,643,496)

The budget for 2016 includes requests for 4 additional staff positions plus a Co-op position. Total personnel costs for these positions, including benefits is \$336,010. Health Insurance and Workers Compensation premiums are proposed to increase a total of 13%. Merit increases for staff are budgeted at an average of 4%.

## Tampa Bay Water – 2016 Annual Budget Financial Plan

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### **Capital Improvements Planning and Financing**

- Planning:

New water supply projects are developed through the long-term water supply planning process, which is performed to insure that (1) the public has sufficient water supplies to meet its needs in an environmentally sustainable and cost-effective manner, and (2) Tampa Bay Water is in compliance with its obligations under the Amended and Restated Interlocal Agreement. It can take as long as 10 years to plan, permit, design, and build drinking water facilities. Tampa Bay Water develops its Master Water Supply Plans through this long-term planning effort. This process is a multi-step process including determination of need, identification of potential projects, feasibility studies, review and selection by the Board of projects to be studied further through preliminary design, and final selection by the Board of projects to be constructed.

Long-term water supply planning is conducted at least every five years. As part of the planning process, demand projections are updated annually to identify the need for and timing of the development of new water sources. It is the Agency's goal to bring new water supplies on-line in a timely manner based on need, but not so far in advance as to unnecessarily burden the cost of water by overbuilding supply capacity.

- Financing:

Tampa Bay Water finances its capital improvements program through the issuance of tax exempt bonds. Bond proceeds are placed in a restricted Construction Fund until disbursed for the intended purpose. Certain small projects are funded from the Uniform Rate (Capital Improvement Charge) or other revenue sources approved by the Board to be utilized for that purpose. The funds are retained in the Capital Improvement Fund until disbursed for approved purposes. The Agency also seeks and obtains available grant funding for its projects from SWFWMD, the State of Florida and the federal Environmental Protection Agency.

Tampa Bay Water's current Capital Improvement Program is funded primarily through the issuance of Revenue Bonds. The Capital Improvement Fund may be used to fund any Board approved Capital Project. The Renewal and Replacement Fund can fund projects where major repairs or replacement of specific components are needed to maintain the service level of the system. The Uniform Rate generally funds projects that improve existing facilities. Uniform Rate projects are considered routine and may include technological upgrades and facility remodeling/renovations.

### **Capital Improvement Program Definition**

A capital project is defined as planned activities that result in

- a new capital asset or improvements to an existing asset.
- major renovations or expansions that extend an existing asset's useful life and/or result in a significant improvement in its functionality or capacity.

Capital projects are recorded in Tampa Bay Water's financial records in accordance with generally accepted accounting principles and applicable Florida State statutes.

Approved projects can include projects constructed for the benefit of member governments or other government agencies. If Tampa Bay Water does not retain ownership of the completed project, it is accounted for as a contribution to the respective entity.

**Tampa Bay Water – 2016 Annual Budget  
Financial Plan**

**Impact of Capital Improvement Program on the 2016 Operating Budget**

The current Capital Improvement Program Schedule anticipates the completion of 12 projects during fiscal year 2016. It is estimated that completion of these projects will result in an annual increase in operating and maintenance costs totaling \$346,583.

Project No.	Project Name	Projected Completion Date	Estimated Annual Operating Costs	Estimated Annual Maintenance Costs	Effect on FY 2016 Budget
06318	Regional Reservoir Ponds Inlets/Outlets Repairs	6/27/2016	\$ -	\$ -	\$ -
07002	North System Pressure Modification Project	2/22/2016	343,643	-	171,822
07006	South Pasco Generator & Fuel Tank	9/30/2016	-	2,940	-
07401	Tampa Bay Seawater Desalination Reliability Program - Phase 2	12/31/2015	-	-	-
07401	Tampa Bay Seawater Desalination Reliability Program - Phase 3	1/15/2016	-	-	-
09005	Cosme Bypass Analyzer Enclosure	4/29/2016	-	-	-
50010	HSPS Improvements Pumps 1-5	11/2/2015	-	-	-
50013	Cypress Creek WF MCCs Replacement & Arc Flash Mitigation	4/18/2016	-	-	-
50028	Facilities Site-SWTP Process Water Piping Repairs	6/20/2016	-	-	-
50029	BUD Well Fields Arc Flash Mitigation and VFDs Replacement	7/1/2016	-	-	-
50030	South Central Hillsborough Arc Flash Mitigation	8/29/2016	-	-	-
50032	South Pasco WF Arc Flash Mitigation	10/14/2015	-	-	-
50034	Medium Voltage Variable Frequency Drive Upgrades - Alafia PS	12/20/2015	-	-	-
50035	Medium Voltage Variable Frequency Drive Upgrade - CCPS	9/2/2016	-	-	-
			\$ 343,643	\$ 2,940	\$171,822

**Tampa Bay Water – 2016 Annual Budget  
Financial Plan**

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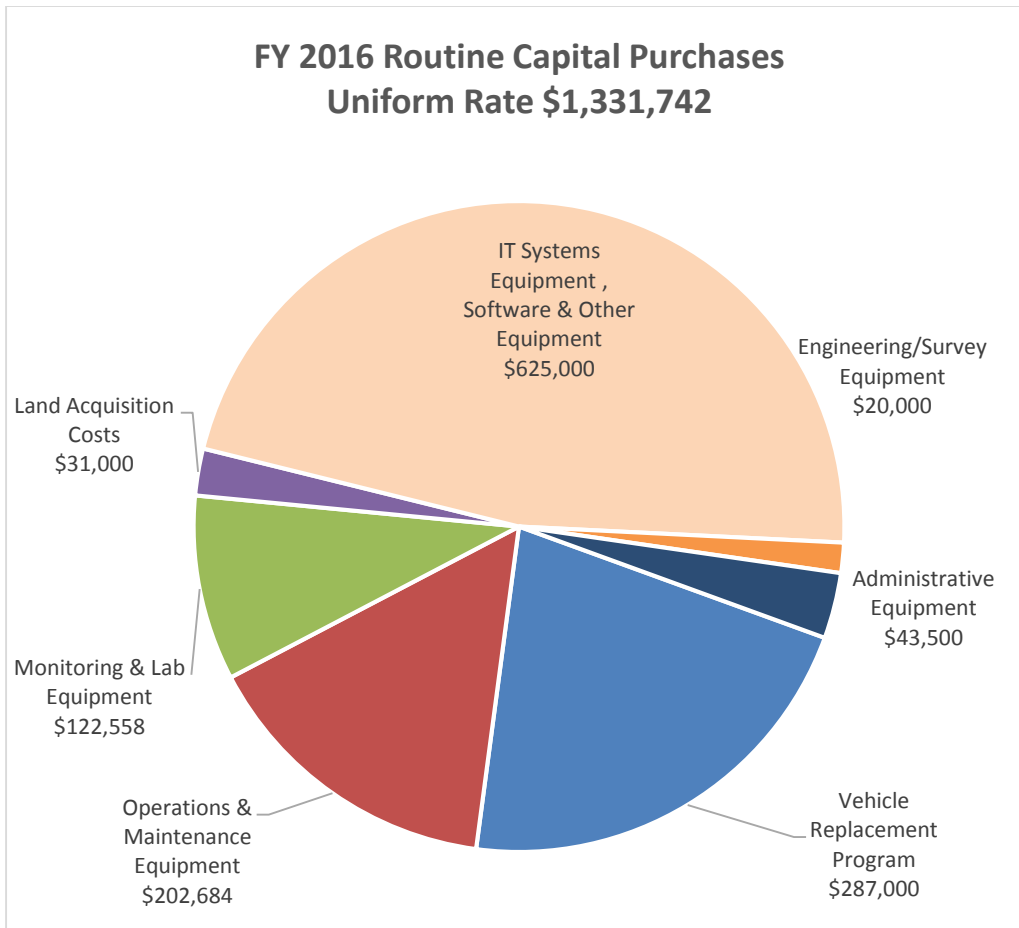
**Routine Capital Purchases**

It is Tampa Bay Water’s policy to capitalize property and equipment having an original cost greater than \$1,000 and an estimated useful life longer than one year. Property and equipment routinely capitalized includes land, buildings and their structural components, vehicles, machinery, electronic and communication equipment, tools, office equipment, and furniture.

The 2016 budget includes \$1,509,992 for Capital Purchases of which \$1,331,742 is considered routine capital purchases.

Tampa Bay Water budgets for routine capital equipment and real property purchases through the Uniform Rate.

The following chart summarizes routine capital purchases budgeted for fiscal year 2016.



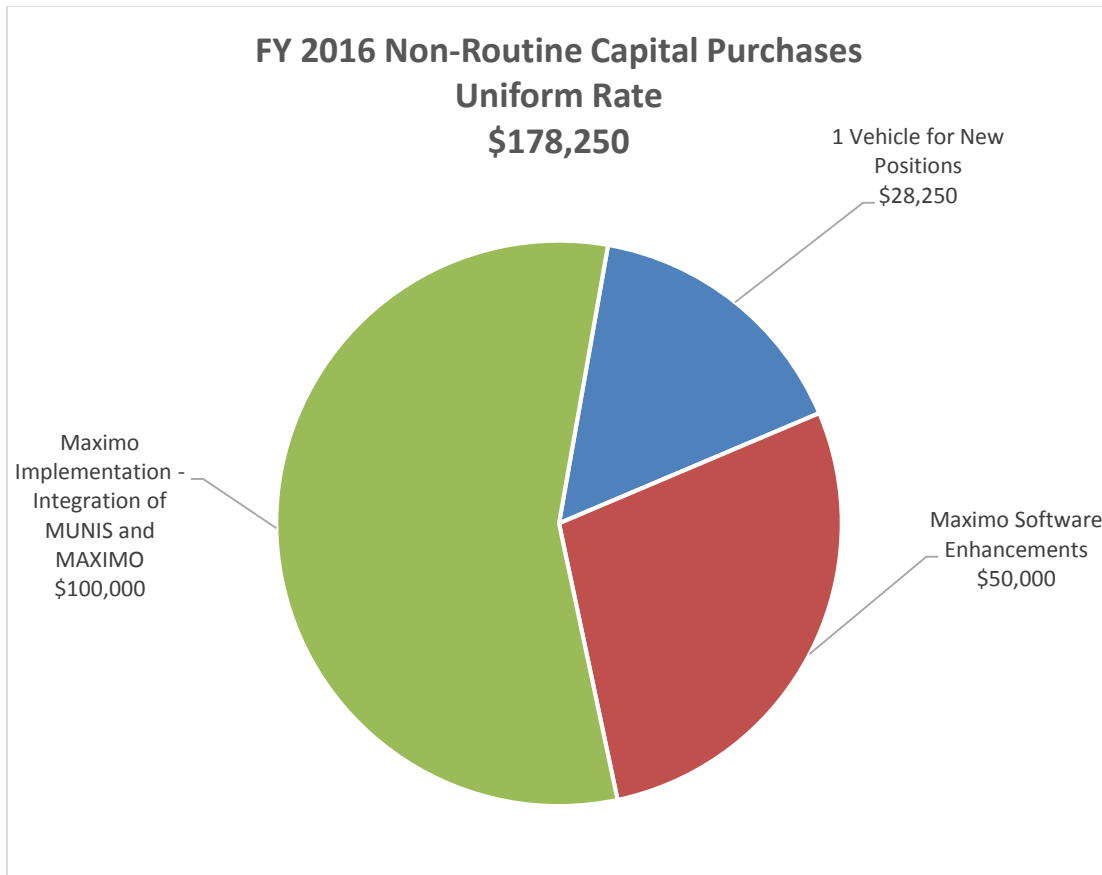
**Tampa Bay Water – 2016 Annual Budget  
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**Non-Routine Capital Purchases**

The 2016 Approved budget includes funding for these non-routine capital purchases through the Uniform Rate.

The following chart summarizes non-routine capital purchases budgeted for fiscal year 2016.



For fiscal year 2016 requests for property and equipment that is not routinely purchased but is required to be capitalized includes services for the integration of the Computerized Maintenance Management System (CMMS), Maximo, with the financial system, Munis. Also included is software enhancements for Maximo.

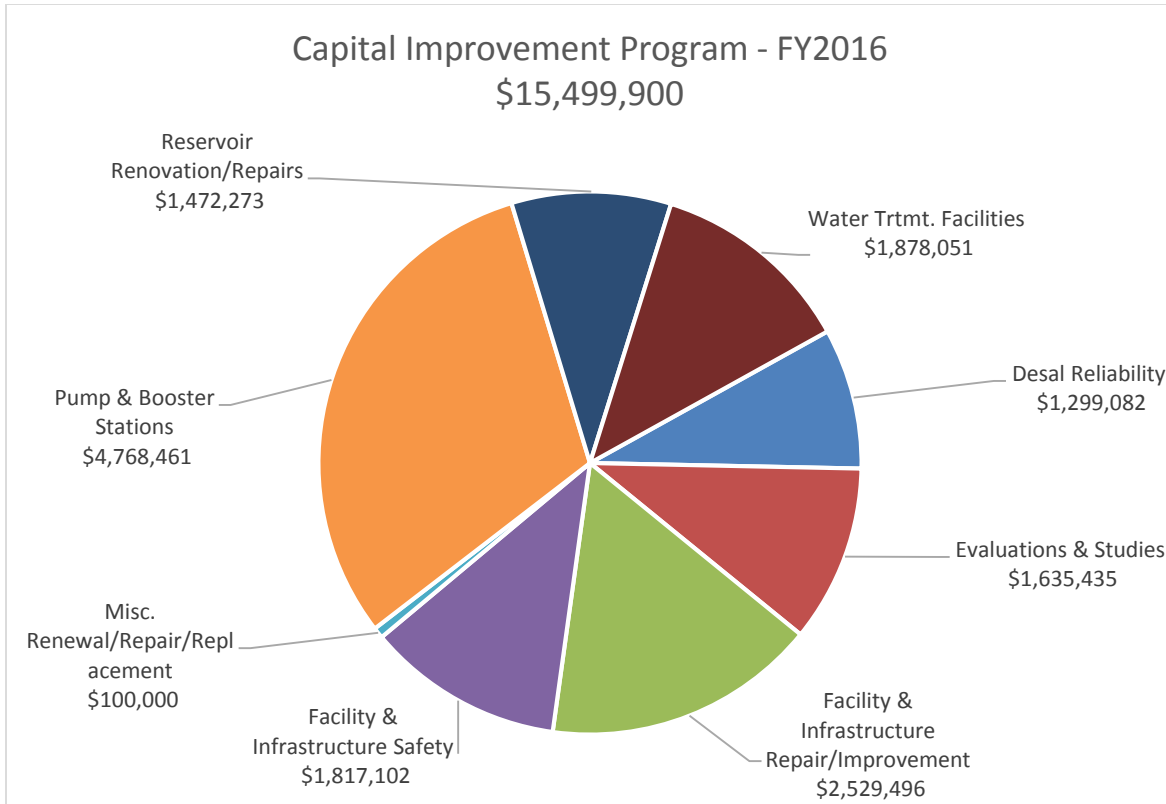
Staff has also requested budget to purchase an additional vehicle for one proposed positions.

**Tampa Bay Water – 2016 Annual Budget  
Financial Plan**

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**Capital Improvement Program Fiscal Year 2016**

The following chart summarizes significant Capital Improvement Expenditures for fiscal year 2016. Additional detail on Tampa Bay Water’s Capital Improvement Program is provided in the Capital Improvement Program section of this document.



## Annual Rate Setting & Member Costs

Fiscal Year 2016

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The Annual Rate Setting and Member Costs section provides summarized information and schedules including current and projected rates and Member costs. Charts and graphs are provided that depict the components of the budget and the rate impacts. Separate charts and schedules are provided for each Member Government to assist them in the planning and coordination of their budgets and financial obligations associated with Tampa Bay Water's contracts.

## **Tampa Bay Water – 2016 Annual Budget Annual Rate Setting and Member Costs**

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This section presents a summary of the budgeted components which make up the approved Uniform Rate and the manner in which each Member will be invoiced for water purchased in 2016.

### **Overview**

The “Uniform Rate” is the uniform dollars per 1,000 gallons wholesale rate charged to the Member Governments for the supply of water through a Fixed Cost and Variable Cost component. The Uniform Rate is based upon the annual estimate and the projected quantity of water expected to be delivered to customers. The only exception to the Uniform Rate for water supply is the rate charged to the City of Tampa for water supplied from the Tampa Bypass Canal. The annual True-up required by the Master Water Supply Contract provides for a year end adjustment in the Fixed Costs component of bills paid during the fiscal year. Each member’s pro-rata share of the Annual Estimate of Fixed Costs in effect during the fiscal year is adjusted based on the actual quantity of Quality Water delivered. Any adjustments are payable within sixty days of determination.

The Amended and Restated Interlocal Agreement includes provisions for two credits which are currently being applied against charges to Member Governments for water service. The annual credit for the debt service amortization for Tampa Bay Water’s purchase of the Members’ water supply facilities is the most significant credit. This credit is applied to the Member Governments’ water bills. The credit is reflected in the budget as an annual debt service cost and is also reflected as a credit against the member’s cost to purchase water. The annual debt service/credit is computed on a 30-year amortization of the net purchase price, compounded semiannually at 4.865%. The aggregate annual debt service cost/credit is \$10,231,558. Additional annual credits consist of a credit for the actual direct costs of water treatment. In the event water delivered to Member Governments does not meet specifications for quality water in relation to hydrogen sulfide removal, a credit for hydrogen sulfide treatment is applied. Hydrogen sulfide was and remains an issue for the existing groundwater system, but not for the new supply sources. The water quality credit for hydrogen sulfide treatment affects the City of New Port Richey, and Hillsborough County. The total annual Water Quality credit for hydrogen sulfide for fiscal year 2016 is \$48,000.

The primary source of revenue to Tampa Bay Water is the sale of quality water to our members. The projected revenue requirements must cover operation and maintenance expenses, debt service payments, bond coverage, renewal and replacement expenditures, required deposits to reserves, and capital expenditures.

Revenue from sale of water and unrestricted interest income fund the operating and maintenance costs of Tampa Bay Water. Water sales for fiscal year 2016 are budgeted at \$153,602,133. Interest income available for operations is estimated to be \$859,552.

It is estimated that \$3,200,826 of unencumbered monies from fiscal year 2015 will be transferred through the Rate Stabilization account for use in fiscal year 2016. An additional transfer of \$5,325,000 from Rate Stabilization will be used to maintain water sales at the \$153,602,133 level.



## Tampa Bay Water – 2016 Annual Budget Annual Rate Setting and Member Costs

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The Tampa Bypass Canal sale of water represents the estimated billing to the City of Tampa for its water needs at the Tampa Bypass Canal facility at a rate of .1570 per 1000 gallons for 2016.

### **Rate Setting**

Pursuant to the Master Water Supply Contract, Tampa Bay Water establishes an Annual Estimate based on Tampa Bay Water's budget for the ensuing fiscal year, which sets forth the expected cost of providing water service to Member Governments. Tampa Bay Water is required to develop the Rate (\$/1,000 gallons), based on the Annual Estimate and the projected quantity of Quality Water to be delivered to Member Governments during the ensuing fiscal year. In accordance with the provisions of the Interlocal Agreement, a separate rate, based on actual costs incurred and allocated overhead, is charged to the City of Tampa for water supplied from the Tampa Bypass Canal.

The Uniform Rate to be charged in a fiscal year to the Member Governments for water service may include the following components:

Operation, Maintenance and Administrative Costs – These costs are the costs of operating, maintaining and administering the system in such fiscal year.

Debt Service Charges – Debt Service Charges relating to any of Tampa Bay Water's Obligations are based on principle, redemption premium, if any, and interest coming due on debt in the fiscal year.

Renewal and Replacement Fund – Tampa Bay Water is required to maintain an amount equal to five (5) percent of the prior fiscal year's Gross Revenues or such other amount as is certified by the Consulting Engineer. These funds are available to be used for repair and replacement of the System.

Capital Improvement Charges – These charges are based on the amount identified for capital improvement charges in Tampa Bay Water's Annual Estimate for the fiscal year.

Operating Reserve Funds – These funds are provided in the annual budget to maintain a reserve balance equal to two times the monthly average variable costs as provided in the budget.

Rate Stabilization Fund – Operation, Maintenance and Administrative Costs may be utilized to fund a rate stabilization fund.

## Tampa Bay Water – 2016 Annual Budget Annual Rate Setting and Member Costs

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### Uniform Rate Elements

The Uniform Rate consists of two components: a Fixed Cost component and a Variable Cost component. The Fixed Cost component is designed to recover annual costs and expenses associated with the operation, maintenance, management, security, development and financing of the System, other than those included as part of the Variable Cost component. The Variable Cost component is designed to recover costs and expenses for the operation, maintenance and management of the System that change in direct proportion to changes in the volume of Quality Water produced by Tampa Bay Water. The Variable Cost component includes, but is not limited to, the costs of power, chemicals, and water purchases.

### **Fixed Costs**

The Uniform Rate calculation is based on the total Net Annual Revenue Requirement for the fiscal year for which the rate is established and the projected amount of Quality Water, in millions of gallons per day, to be delivered to Member Governments during such fiscal year. For the purposes of the Uniform Rate calculation, the Fixed Costs for the fiscal year selected are defined as:

$$\text{Fixed Costs} = \text{Net Annual Revenue Requirement} - \text{Budgeted Variable Costs}$$

The Net Annual Revenue Requirement for the fiscal year selected (also referred to as Annual Estimate for purposes of rate computation) is calculated by making the necessary adjustments to the annual budget requirement. Such adjustments include, but are not limited to, estimated interest income, budgeted transfers from various funds (i.e., Rate Stabilization Account, Operating Reserve Fund, etc.), capitalized interest available for debt service, potential funding assistance from SWFWMD/EPA, and estimated revenues from the sale of surface water to the City of Tampa.

### **Variable Costs**

Pursuant to the Master Water Supply Agreement, Tampa Bay Water is required to establish a variable rate to cover costs associated primarily with power, chemicals and water purchases. The variable rate (\$/1,000 gallons) is defined as the ratio of the total budgeted Variable Costs to the total Net Annual Revenue Requirement, applied to the Uniform Rate.

$$\text{Variable Rate} = (\text{Budgeted Variable Costs} / \text{Net Annual Revenue Req.}) \times \text{Uniform Rate}$$

**Tampa Bay Water – 2016 Annual Budget  
Annual Rate Setting and Member Costs**

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**Rate for City of Tampa from Tampa Bypass Canal**

Pursuant to Section 3.08(D) of the Interlocal Agreement, the rate charged for water delivered to the City of Tampa from the Tampa Bypass Canal (TBC) facility should be equal to Tampa Bay Water’s direct cost of operating the TBC and allocated overhead. As part of its annual budget development process, Tampa Bay Water prepares an estimate of direct cost and allocated overhead associated with the Tampa Bypass Canal facility using the projected quantity of water to be delivered to the City of Tampa from the facility during the ensuing fiscal year.

**TBC Rate = (Allocated Overhead + Direct Costs) ÷ Qty. of Surface Water (to be delivered)**

The unit rate for delivery of water to the City of Tampa from the Tampa Bypass Canal facility is presented to the Board for approval as part of the annual budget approval process for the ensuing fiscal year. The unit rate for 2015 was \$.157 (\$/1,000 gallons).

	Allocated Overhead	Direct Costs	Estimated MGD
<b>\$0.157 per 1000 gal</b>	<b>= (509,418</b>	<b>+ 178,014)</b>	<b>÷ (12 mgd x 365 x 1000)</b>

The budget for fiscal year 2016 does not anticipate that the City of Tampa will purchase water from the TBC in 2016.

**Other Budget Factors**

- For fiscal year 2016, \$859,552 has been estimated for interest income. Interest income will be applied to offset projected expenditures, to the extent permitted.
- The fund balance in the Operating Reserve is greater than two times the monthly average variable costs as provided in the budget. Additional funding is not required in fiscal year 2016.
- The Uniform Rate is segregated into Fixed Costs (do not vary as a result of water production) and billed at 1/12 of total Fixed Costs monthly per Member. The Variable Costs (vary with water production); electricity, chemicals, and water for re-sale; are billed monthly based on actual production.
- Acquired Member facilities are included in this budget as Tampa Bay Water owned supply systems and are being paid for through debt issuance and credits back to Members.
- Water quality standards are established and costs are budgeted to sustain the standards. Water Quality Credits related to hydrogen sulfide removal for fiscal year 2016 have been established and will be credited to Hillsborough County, and New Port Richey.

**Tampa Bay Water – 2016 Annual Budget  
Annual Rate Setting and Member Costs**

**Uniform Water Rates**

Cost Category	Approved	Budget Projections				
	2016	2017	2018	2019	2020	2021
Fixed Operating Costs (note 1)	\$ 53,095,304	\$ 54,835,123	\$ 56,633,015	\$ 58,490,958	\$ 60,410,997	\$ 62,395,249
Variable Operating Costs	24,213,697	24,280,399	25,111,878	25,889,944	26,851,195	27,765,079
Debt Service - Bonds (note 2)	72,413,958	72,087,696	72,091,416	75,084,545	75,095,482	75,096,447
Debt Service - Acquisition Credits to Members	10,231,558	10,231,558	10,231,558	10,231,558	10,231,558	10,231,558
Water Quality Credits to Members	48,000	48,000	48,000	48,000	48,000	48,000
Misc./ Other - Renewal & Replacement Projects	5,018,329	6,645,179	4,449,743	671,372	3,000,000	3,000,000
<b>Total Costs</b>	<b>\$ 165,020,845</b>	<b>\$ 168,127,954</b>	<b>\$ 168,565,610</b>	<b>\$ 170,416,376</b>	<b>\$ 175,637,232</b>	<b>\$ 178,536,333</b>
<b>Adjustments</b>						
Less : Estimated Unencumbered Funds from Prior Years (note 3)	(3,200,826)	(2,304,032)	(2,364,114)	(2,418,303)	(2,469,434)	(2,528,538)
Less : Estimated Credits/ Surcharges	(42,000)	(42,000)	(42,000)	(42,000)	(42,000)	(42,000)
Less : Estimated Interest Earned (Includes Capital Improvement Fund)	(859,552)	(945,159)	(1,098,243)	(1,364,653)	(1,563,418)	(1,824,591)
Less : Transfer In from Rate Stabilization Account	(5,325,000)	(3,600,000)	(2,400,000)	(4,300,000)	(3,000,000)	(2,500,000)
Less : Transfer In from Renewal & Replacement Fund (note 4)	(5,018,329)	(6,645,179)	(4,449,743)	(671,372)	(3,000,000)	(3,000,000)
Plus : Transfer Out to Capital Improvement Fund	26,995	15,986	8,692	8,906	6,817	4,100
Plus : Transfer Out to R&R Fund	3,000,000	3,000,000	3,000,000	3,000,000	3,000,000	3,000,000
Plus : Transfer Out to Operating Revenue	-	-	-	-	-	151,314
<b>Subtotal</b>	<b>(11,418,712)</b>	<b>(10,520,384)</b>	<b>(7,345,408)</b>	<b>(5,787,423)</b>	<b>(7,068,035)</b>	<b>(6,739,715)</b>
<b>Total Net Revenues Required</b>	<b>\$ 153,602,133</b>	<b>\$ 157,607,570</b>	<b>\$ 161,220,201</b>	<b>\$ 164,628,954</b>	<b>\$ 168,569,197</b>	<b>\$ 171,796,618</b>
Projected Water Demand (mgd) - (Note 5)	164.00	166.20	167.70	169.00	170.40	171.70
<b>Projected Uniform Water Rate (\$/1000 gal.)</b>	<b>\$ 2.5590</b>	<b>\$ 2.5981</b>	<b>\$ 2.6339</b>	<b>\$ 2.6689</b>	<b>\$ 2.7103</b>	<b>\$ 2.7413</b>
	0.0000	0.0391	0.0358	0.0350	0.0414	0.0310
	<b>0.00%</b>	<b>1.53%</b>	<b>1.38%</b>	<b>1.33%</b>	<b>1.55%</b>	<b>1.14%</b>

Note1: AN INFLATION RATE OF 3.3% IS USED FOR FUTURE COST PROJECTIONS WHERE STAFF BELIEVES THIS IS APPROPRIATE. COST PROJECTIONS ARE ALSO MODIFIED TO INCLUDE FIRST YEAR AND SUBSEQUENT YEAR OPERATING COSTS OF NEW FACILITIES CURRENTLY UNDER CONSTRUCTION. NO OPERATING COST PROVISION IS MADE FOR THOSE PROJECTS WHICH HAVE NOT BEEN SELECTED BY THE BOARD FOR CONSTRUCTION.

Note 2: DEBT SERVICE FOR FY 2019 - 2021 INCLUDES \$3,000,000 FOR DEBT ISSUANCE (2018/19)

Note 3: FOR FY 2016 ESTIMATED UNENCUMBERED FUNDS FROM PRIOR YEAR ARE ESTIMATED AT 2% OF PRIOR YEAR WATER REVENUE FROM WATER SALES. FUNDS TRANSFER THROUGH THE RATE STABILIZATION ACCOUNT AT YEAR END. FY 2017-2021 ARE ESTIMATED AT 1.5%

Note 4: ASSUMES EXCESS REVENUE OF \$2,000,000 ANNUALLY TO BE DEPOSITED INTO RATE STABILIZATION, MAINTAINING A MINIMUM BALANCE OF 8.5%

Note 5- PROJECTED WATER DEMAND IS BASED ON INFORMATION OBTAINED FROM THE TAMPA BAY WATER DEMAND FORECASTING MODEL

**Tampa Bay Water – 2016 Annual Budget  
Annual Rate Setting and Member Costs**

**Estimated Annual Member Costs Fiscal Year 2016**

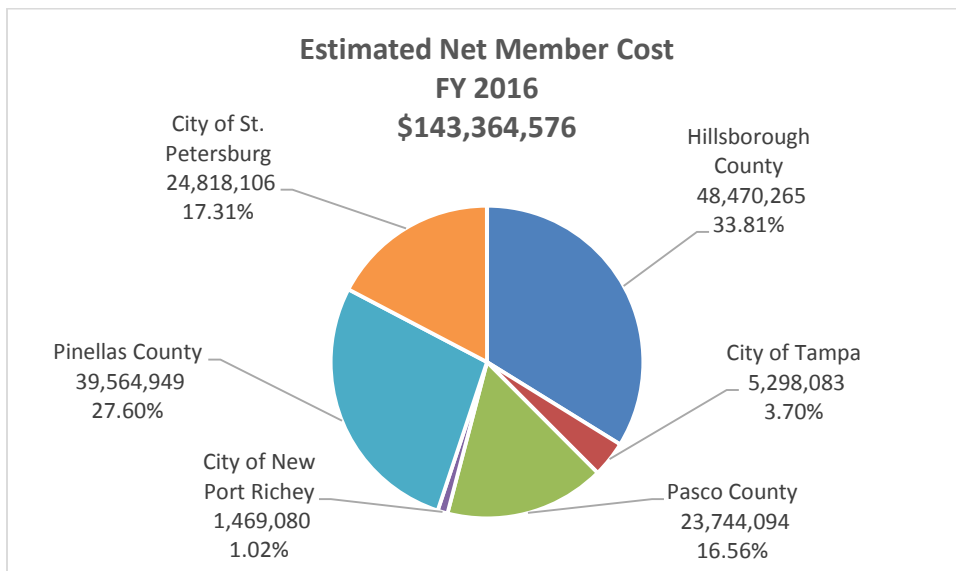
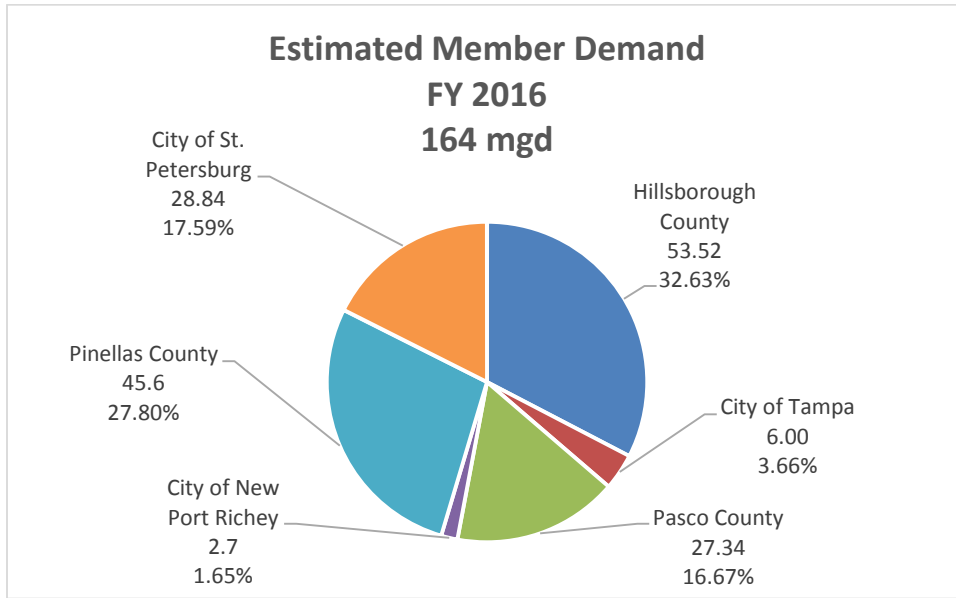
Uniform Rate Budget	Hillsborough County	City of Tampa	Pasco County	City of New Port Richey	Pinellas County	City of St. Petersburg	Total
Uniform Water Rate (\$/ 1000 gallons)	\$ 2.5590	\$ 2.5590	\$ 2.5590	\$ 2.5590	\$ 2.5590	\$ 2.5590	\$ 2.5590
Member Water demand Projections (mgd) for FY 2016	53.52	6.00	27.34	2.70	45.60	28.84	164.00
Percentage of Total Water Sales	32.6341%	3.6585%	16.6707%	1.6463%	27.8049%	17.5854%	100.0000%
Member Water Purchase FY 2015	54.20	6.00	27.90	2.50	48.20	28.80	167.60
Percentage of Total Water Sales	32.3389%	3.5800%	16.6468%	1.4916%	28.7589%	17.1838%	100.0000%
Total Member Fixed Cost Before Credits/Surcharge FY 2016	\$ 41,842,799.62	\$ 4,632,044.24	\$ 21,539,005.71	\$ 1,930,018.43	\$ 37,210,755.38	\$ 22,233,812.34	\$ 129,388,435.73
Total Member Variable Cost Before Credits/Surcharge FY 2016	7,901,933.31	885,866.96	4,036,600.46	398,640.13	6,732,588.92	4,258,067.20	24,213,697.00
<b>Total Member Cost Before Credits/ Surcharge FY 2016</b>	<b>\$49,744,732.93</b>	<b>\$5,517,911.20</b>	<b>\$25,575,606.17</b>	<b>\$2,328,658.57</b>	<b>\$43,943,344.30</b>	<b>\$26,491,879.55</b>	<b>\$153,602,132.73</b>
Additional Credits/ Surcharges (Board Approved)	-	-	42,000.00	-	-	-	42,000.00
Sale of Surface Water (TBC)	-	-	-	-	-	-	-
Water Quality Credits to Member Governments for FY 2016	(36,000.00)	-	-	(12,000.00)	-	-	(48,000.00)
Facilities Acquisition Credits to Member Governments for FY 2016	(1,238,467.88)	(219,828.36)	(1,873,512.61)	(847,578.83)	(4,378,395.81)	(1,673,774.04)	(10,231,557.53)
<b>Net Annual Member Credits</b>	<b>\$48,470,265.05</b>	<b>\$5,298,082.84</b>	<b>\$23,744,093.56</b>	<b>\$1,469,079.74</b>	<b>\$39,564,948.49</b>	<b>\$24,818,105.51</b>	<b>\$143,364,575.20</b>

**Note 1: VARIABLE COSTS ARE ALLOCATED BASED ON THE MEMBER GOVERNMENT'S PROJECTED ANNUAL WATER DEMAND (MGD) FOR FY 2015**

**Note 2: FIXED COSTS BILLED TO MEMEBR GOVERNMENTS IN FY 2016 ARE BASED ON THE ACTUAL FY 2015 PRODUCTION. A TRUE - UP TO THE ACTUAL FY 2015 IS COMPLETED AT FY 2015 YEAR END.**

**Tampa Bay Water – 2016 Annual Budget  
Annual Rate Setting and Member Costs**

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**Tampa Bay Water – 2016 Annual Budget  
Annual Rate Setting and Member Costs**

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**Estimated Member Costs Fiscal Year 2016**

<b>Hillsborough County</b>		
Total Estimated Water Demand (mgd) through September 30, 2015		167.60
Hillsborough County Water Demand (mgd) through September 30, 2015		54.20
Percentage of FY 2015 Water Demand/ Total Water Demand (Applied to FY 2016 Fixed Costs)		32.34%
Variable Rate is Based on Percentage of Projected FY 2016 Water Demand (mgd)		53.52
	<b>Annual Billing</b>	<b>Monthly Billing</b>
Fixed Cost Summary	\$ 41,842,799.62	3,486,899.97
Variable Rate (\$/ 1000 gallons) = \$0.4034	7,901,933.31	658,494.44
Additional Credits/ Surcharges	-	-
Sale of Surface Water (TBC)	-	-
Water Quality Credits FY 2016	(36,000.00)	(3,000.00)
Annual Facilities Acquisition Credits	(1,238,467.88)	(103,205.66)
<b>TOTAL</b>	<b>\$ 48,470,265.05</b>	<b>\$ 4,039,188.75</b>

**Tampa Bay Water – 2016 Annual Budget  
Annual Rate Setting and Member Costs**

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**Estimated Member Costs Fiscal Year 2016**

<b>City of Tampa</b>		
Total Water Demand (mgd) through September 30, 2015		167.60
City of Tampa Water Demand (mgd) through September 30, 2015		6.00
Percentage of FY 2015 Water Demand/ Total Water Demand (Applied to FY 2016 Fixed Costs)		3.58%
Variable Rate is Based on Percentage of Projected FY 2016 Water Demand (mgd)		6.00
	<b>Annual Billing</b>	<b>Monthly Billing</b>
Fixed Cost Summary	\$ 4,632,044.24	386,003.69
Variable Rate (\$/ 1000 gallons) = \$0.4034	885,866.96	73,822.25
Additional Credits/ Surcharges	-	-
Sale of Surface Water (TBC)	-	-
Water Quality Credits FY 2016	-	-
Annual Facilities Acquisition Credits	(219,828.36)	(18,319.03)
<b>TOTAL</b>	<b>\$ 5,298,082.84</b>	<b>\$ 441,506.91</b>



**Tampa Bay Water – 2016 Annual Budget  
Annual Rate Setting and Member Costs**

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**Estimated Member Costs Fiscal Year 2016**

<b>Pasco County</b>		
Total Water Demand (mgd) through September 30, 2015		167.60
Pasco County Water Demand (mgd) through September 30, 2015		27.90
Percentage of FY 2015 Water Demand/ Total Water Demand (Applied to FY 2016 Fixed Costs)		16.65%
Variable Rate is Based on Percentage of Projected FY 2016 Water Demand (mgd)		27.34
	<b>Annual Billing</b>	<b>Monthly Billing</b>
Fixed Cost Summary	\$ 21,539,005.71	1,794,917.14
Variable Rate (\$/ 1000 gallons) = \$0.4034	4,036,600.46	336,383.37
Additional Credits/ Surcharges	42,000.00	3,500.00
Sale of Surface Water (TBC)	0	0
Water Quality Credits FY 2016	0	0
Annual Facilities Acquisition Credits	(1,873,512.61)	(156,126.05)
<b>TOTAL</b>	<b>\$ 23,744,093.56</b>	<b>\$ 1,978,674.46</b>

**Tampa Bay Water – 2016 Annual Budget  
Annual Rate Setting and Member Costs**

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**Estimated Member Costs Fiscal Year 2016**

<b>City of New Port Richey</b>		
Total Water Demand (mgd) through September 30, 2015		167.60
City of New Port Richey Water Demand (mgd) through September 30, 2015		2.50
Percentage of FY 2015 Water Demand/ Total Water Demand (Applied to FY 2016 Fixed Costs)		1.49%
Variable Rate is Based on Percentage of Projected FY 2016 Water Demand (mgd)		2.70
	<b>Annual Billing</b>	<b>Monthly Billing</b>
Fixed Cost Summary	\$ 1,930,018.43	160,834.87
Variable Rate (\$/ 1000 gallons) = \$0.4034	398,640.13	33,220.01
Additional Credits/ Surcharges	-	-
Sale of Surface Water (TBC)	-	-
Water Quality Credits FY 2016	(12,000.00)	(1,000.00)
Annual Facilities Acquisition Credits	(847,578.83)	(70,631.57)
<b>TOTAL</b>	<b>\$ 1,469,079.73</b>	<b>\$ 122,423.31</b>

**Tampa Bay Water – 2016 Annual Budget  
Annual Rate Setting and Member Costs**

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**Estimated Member Costs Fiscal Year 2016**

<b>Pinellas County</b>		
Total Water Demand (mgd) through September 30, 2015		167.60
Pinellas County Water Demand (mgd) through September 30, 2015		48.20
Percentage of FY 2015 Water Demand/ Total Water Demand (Applied to FY 2016 Fixed Costs)		28.76%
Variable Rate is Based on Percentage of Projected FY 2016 Water Demand (mgd)		45.60
	<b>Annual Billing</b>	<b>Monthly Billing</b>
Fixed Cost Summary	\$ 37,210,755.38	3,100,896.28
Variable Rate (\$/ 1000 gallons) = \$0.4034	6,732,588.92	561,049.08
Additional Credits/ Surcharges	-	-
Sale of Surface Water (TBC)	-	-
Water Quality Credits FY 2016	-	-
Annual Facilities Acquisition Credits	(4,378,395.81)	(364,866.32)
<b>TOTAL</b>	<b>\$ 39,564,948.49</b>	<b>\$ 3,297,079.04</b>

**Tampa Bay Water – 2016 Annual Budget  
Annual Rate Setting and Member Costs**

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**Estimated Member Costs Fiscal Year 2016**

<b>City of St. Petersburg</b>		
Total Water Demand (mgd) through September 30, 2015		167.60
City of St. Petersburg Water Demand (mgd) through September 30, 2015		28.80
Percentage of FY 2015 Water Demand/ Total Water Demand (Applied to FY 2016 Fixed Costs)		17.18%
Variable Rate is Based on Percentage of Projected FY 2016 Water Demand (mgd)		28.84
	<b>Annual Billing</b>	<b>Monthly Billing</b>
Fixed Cost Summary	\$ 22,233,812.34	1,852,817.70
Variable Rate (\$/ 1000 gallons) = \$0.4034	4,258,067.20	354,838.93
Additional Credits/ Surcharges	-	-
Sale of Surface Water (TBC)	-	-
Water Quality Credits FY 2016	-	-
Annual Facilities Acquisition Credits	(1,673,774.04)	(139,481.17)
<b>TOTAL</b>	<b>\$ 24,818,105.51</b>	<b>\$ 2,068,175.46</b>

## Debt Service

Fiscal Year 2016

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The Debt Service section provides a listing of the outstanding debt of the Agency, the Agency's bond ratings, and the details of the debt requirements shown in the Financial Plan section. The section also provides information on debt coverage requirements and future Debt Service.

**Tampa Bay Water – 2016 Annual Budget  
Debt Service**

**Bonds**

At the time of its reorganization in 1998, Tampa Bay Water issued the 1998A Bonds to refund all existing debt. In addition, the 1998B Bonds were issued to finance the cash component of the purchase of the members' wellfields. Of those proceeds, \$71.8 million, \$92.4 million, \$31.7 million and \$3 million were paid to Pinellas County, City of St. Petersburg, City of Tampa and Pasco County, respectively.

To address the increasing need to develop new water supplies, Tampa Bay Water and its member governments worked collectively to develop a Capital Improvement Program that would identify and develop new water sources capable of producing 111 million gallons per day (mgd) by December 31, 2007. With the development of the Capital Improvement Program came the necessity to incur debt as a means of financing the Board approved program. Accordingly, Tampa Bay Water adopted a long-term plan to accomplish the financing of the Capital Improvement Program. In furtherance of this plan, Tampa Bay Water has issued its revenue bonds Series 1999, 2001B, 2002, 2008 and 2013. Additional funds for the Capital Improvement Program were obtained from the Series 2001A, 2005, and 2006 refunding bond issues. Series 2004, 2010, 2011, 2011A, 2011B, 2015A and 2015B were a refunding only.

The Series 2015A and 2015B bond issues were focused on refunding the medium term notes associated with the 2011A and 2011B bonds. The Series 2015A bonds partially advanced refunded the 2006 bonds and the medium term notes of the 2011A and 2011B bonds with tax-exempt bonds. The Series 2015B bonds partially refunded the medium term notes of the 2011A and 2011B bonds with taxable bonds since they could not be advanced refunded on a tax-exempt basis.

Tampa Bay Water's outstanding bonds consist of the following:

**Tampa Bay Water's Outstanding Bonds**

Original Issue		Projected Balance Outstanding 10/1/2015	All-In True Interest Cost	Final Maturity	Purpose
309,370,000	Refunding Revenue Bonds, Series 2001 A	50,000,000	5.13%	2029	Partial defeasance of 1999 Bonds
107,870,000	Refunding Revenue Bonds, Series 2004	47,235,000	3.69%	2019	Partial defeasance of 1998 A, 1998 B and 2001 B Bonds
174,965,000	Refunding Revenue Bonds, Series 2005	145,060,000	3.99%	2024	Partial defeasance of 1998 A, 1998 B and 2001 B Bonds; Fund Capital Improvement Program
81,885,000	Refunding Revenue Bonds, Series 2006	355,000	4.63%	2016	Refund 2002 Bonds and FLGFC Loans; fund Capital Improvement Program
101,375,000	Revenue Bonds, Series 2008	101,375,000	4.87%	2038	Fund Capital Improvement Program
66,980,000	Refunding Revenue Bonds, Series 2010	66,980,000	4.19%	2027	Final defeasance of 1998 A and 1998 B Bonds; partial defeasance of 2001 B Bonds
104,645,000	Refunding Revenue Bonds, Series 2011	68,785,000	3.38%	2021	Partial defeasance of 2001A Bonds
140,645,000	Refunding Revenue Bonds, Series 2011A	46,275,000	5.93%	2024	Partial defeasance of 2001A Bonds; terminate 2007 Swaptions
148,920,000	Refunding Revenue Bonds, Series 2011 B	29,525,000	5.93%	2019	Partial defeasance of 2001B Bonds; terminate 2005 Swaptions
75,295,000	Revenue Bonds, Series 2013	75,295,000	3.88%	2038	Fund Capital Improvement Program
180,835,000	Refunding Revenue Bonds, Series 2015A	180,835,000	3.07%	2036	Partial defeasance of 2006 Bonds; partial defeasance of 2011A and 2011B Bonds
95,975,000	Refunding Revenue Bonds, Series 2015B	95,555,000	3.10%	2031	Partial defeasance of 2011A and 2011B Bonds
		<b>907,275,000</b>			

**Tampa Bay Water – 2016 Annual Budget  
Debt Service**

**Rate Covenant**

The Bond Resolution requires Tampa Bay Water to take all actions to collect Net Revenues in each fiscal year so that, together with Fund Balance, they equal at least 125% of the Annual Debt Service coming due in such fiscal year. Such Net Revenues must also be adequate in each fiscal year to pay at least 100% of:

- A. The Annual Debt Service coming due in such fiscal year;
- B. Any amounts required by the terms of the Bond Resolution to be deposited in the Reserve Account or with any issuer of a Reserve Account Letter of Credit or Reserve Account Insurance Policy;
- C. Any amounts to be deposited in the Renewal and Replacement Fund in such fiscal year; and
- D. Any amounts to be repaid to the Capital Improvement Fund in such fiscal year.

For the purposes of the Rate Covenant compliance calculations, the Total Debt Service is calculated, in accordance with the Bond Resolution, net of any Capitalized Interest and release of Debt Service Reserve. The Finance and Administration Division is responsible for making sure that the Uniform Rate adopted for any fiscal year complies with the Rate Covenants.

For the purposes of calculating the Rate Coverage test, Debt Coverage test and the Renewal and Replacement Fund (R&R) coverage requirements, the Net Revenues are determined as shown below.

<b>Net Revenues = (Gross Revenues – Operating Expenses)</b>
---

**Rate Coverage Test:**

	<b>Net Revenues + Utility Reserve Fund Balance</b>
<b>Rate Coverage Test =</b>	<b>Total Debt Service</b>

The minimum requirement for the Rate Coverage Test is 125% (i.e., the sum of Net Revenues and the Utility Reserve Fund Balance shall be greater than or equal to 125% of the total Debt Service due for the Fiscal Year).

**Debt Coverage Test:**

	<b>Net Revenues</b>
<b>Debt Coverage Test =</b>	<b>(Total Debt Service + Annual Contribution to Capital Improvement Fund + Annual Contribution to R&amp;R Fund)</b>

The minimum requirement for the Debt Coverage Test is 100% (i.e., the Net Revenues shall be equal to or greater than the sum of Total Debt Service + Annual Contribution to the Capital Improvement Fund + Annual Contribution to the Renewal and Replacement Fund for the fiscal year).

**Tampa Bay Water – 2016 Annual Budget  
Debt Service**

**Facility Acquisition Credits**

In 1998, pursuant to the Interlocal Agreement, the Member Governments sold certain wellfield and transmission facilities to Tampa Bay Water. A portion of the purchase price is being paid in the form of “Facility Acquisition Credits” payable over 30 years. The credits are applied to the Members’ monthly bills.

<b>Facility Acquisition Credits</b>	<b>Projected Balance Outstanding 10/1/15</b>	<b>Projected Balance Outstanding 9/30/16</b>
Pasco County	\$ 17,573,261	\$ 16,580,169
City of New Port Richey	7,950,159	7,500,884
Hillsborough County	11,616,639	10,960,164
City of St. Petersburg	15,699,744	14,812,527
Pinellas County	41,068,681	38,747,826
City of Tampa	2,061,956	1,945,432
	<b>\$ 95,970,439</b>	<b>\$ 90,547,001</b>

<b>Summary of 2016 Debt Service</b>			
<u>Bonds</u>	Principal	Interest	Total
Refunding Revenue Bond, Series 2001 A	\$ -	\$ 3,000,000	\$ 3,000,000
Refunding Revenue Bond, Series 2004	11,770,000	2,479,838	14,249,838
Refunding Revenue Bond, Series 2005	5,410,000	7,964,775	13,374,775
Refunding Revenue Bond, Series 2006	355,000	17,750	372,750
Revenue Bond, Series, 2008	-	5,068,750	5,068,750
Refunding Revenue Bond, Series 2010	-	3,331,800	3,331,800
Refunding Revenue Bond, Series 2011	10,115,000	3,439,250	13,554,250
Refunding Revenue Bond, Series 2011 A	30,000	2,947,712	2,977,712
Refunding Revenue Bond, Series 2011 B	175,000	1,483,225	1,658,225
Revenue Bond, Series, 2013	-	3,619,550	3,619,550
Refunding Revenue Bond, Series 2015 A	-	7,611,150	7,611,150
Refunding Revenue Bond, Series 2015 B	775,000	2,820,158	3,595,158
<b>DEBT SERVICE BONDS</b>	<b>\$ 28,630,000</b>	<b>\$ 43,783,958</b>	<b>\$72,413,958</b>
<u>Facility Acquisition Credits</u>	Principal	Interest	Total
Pasco County	\$ 993,092	\$ 880,420	\$ 1,873,513
City of New Port Richey	449,276	398,303	847,579
Hillsborough County	656,474	581,994	1,238,468
City of St. Petersburg	887,217	786,557	1,673,774
Pinellas County	2,320,855	2,057,541	4,378,396
City of Tampa	116,524	103,304	219,828
<b>DEBT SVC FACILITY ACQUISITION CREDITS</b>	<b>\$ 5,423,438</b>	<b>\$ 4,808,120</b>	<b>\$10,231,558</b>
<b>TOTAL DEBT SERVICE FY 2016</b>	<b>\$ 34,053,438</b>	<b>\$ 48,592,077</b>	<b>\$82,645,515</b>



**Tampa Bay Water – 2016 Annual Budget  
Debt Service**

**Rating Agency Analysis**

Rating agencies provide an independent assessment of the relative credit worthiness of a municipal security. These agencies provide a letter grade that conveys their assessment of the ability of the borrower to repay the debt. These ratings are also a factor that is considered by the municipal bond market when determining the cost of borrowed funds (interest rate). The three nationally recognized rating agencies (Moody’s Investor Services, Fitch Ratings, and Standard and Poor’s) consider the following key factors when evaluating a debt offering:

- Economic environment - trend information/revenue to support debt
- Debt history - previous debt issued and current debt outstanding
- Debt management - debt planning and policies
- Administration- quality of Tampa Bay Water management and organizational structure
- Financial performance – Tampa Bay Water’s current and historical operations

The rating agencies each utilize a different system to rate debt. Moody’s uses modifiers 1 (higher end), 2 (mid-range) and 3 (lower end) to indicate ranking within each rating category. Both Fitch and Standard and Poor’s use a plus (+) and minus (-) modifier to indicate status within rating category. The table below provides a comparison of their rating systems:

	Moody’s	Fitch	Standard & Poor’s
Highest Quality	Aaa	AAA	AAA
Very High Quality	Aa	AA	AA
High Quality	A	A	A
Medium Quality	Baa	BBB	BBB
Speculative Quality	Ba	BB	BB
Highly Speculative Quality	B	B	B
Substantial Risk	Ca	CCC	CCC
Very High Levels of Risk	Caa	CC	CC
Exceptionally High Levels of Risk	C	C	C
Default	N/A	D	D

**Tampa Bay Water – 2016 Annual Budget**  
**Debt Service**

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In January, 2015 Tampa Bay Water’s debt maintained it’s very high quality credit rating of AA+ from both Standard & Poor’s and Fitch and Moody’s updated the Agency’s debt from Aa2 to Aa1. The Agency now has the second highest credit rating from all three rating agencies.

The following table summarizes the underlying ratings assigned to Tampa Bay Water’s debt by the rating agencies at time of issuance based on the agency’s credit.

<b>Bond Issue</b>	<b>Moody's</b>	<b>Fitch</b>	<b>Standard &amp; Poor's</b>
2001A Bonds	A1	AA-	A+
2004 Bonds	Aa3	AA-	A+
2005 Bonds	Aa3	AA-	A+
2006 Bonds	Aa3	AA-	AA-
2008 Bonds	Aa3	AA	AA+
2010 Bonds	Aa2	AA+	AA+
2011 Bonds	Aa2	AA+	AA+
2011A Bonds	Aa2	AA+	AA+
2011 B Bonds	Aa2	AA+	AA+
2013 Bonds	Aa2	AA+	AA+
2015 A Bonds	Aa1	AA+	AA+
2015 B Bonds	Aa1	AA+	AA+

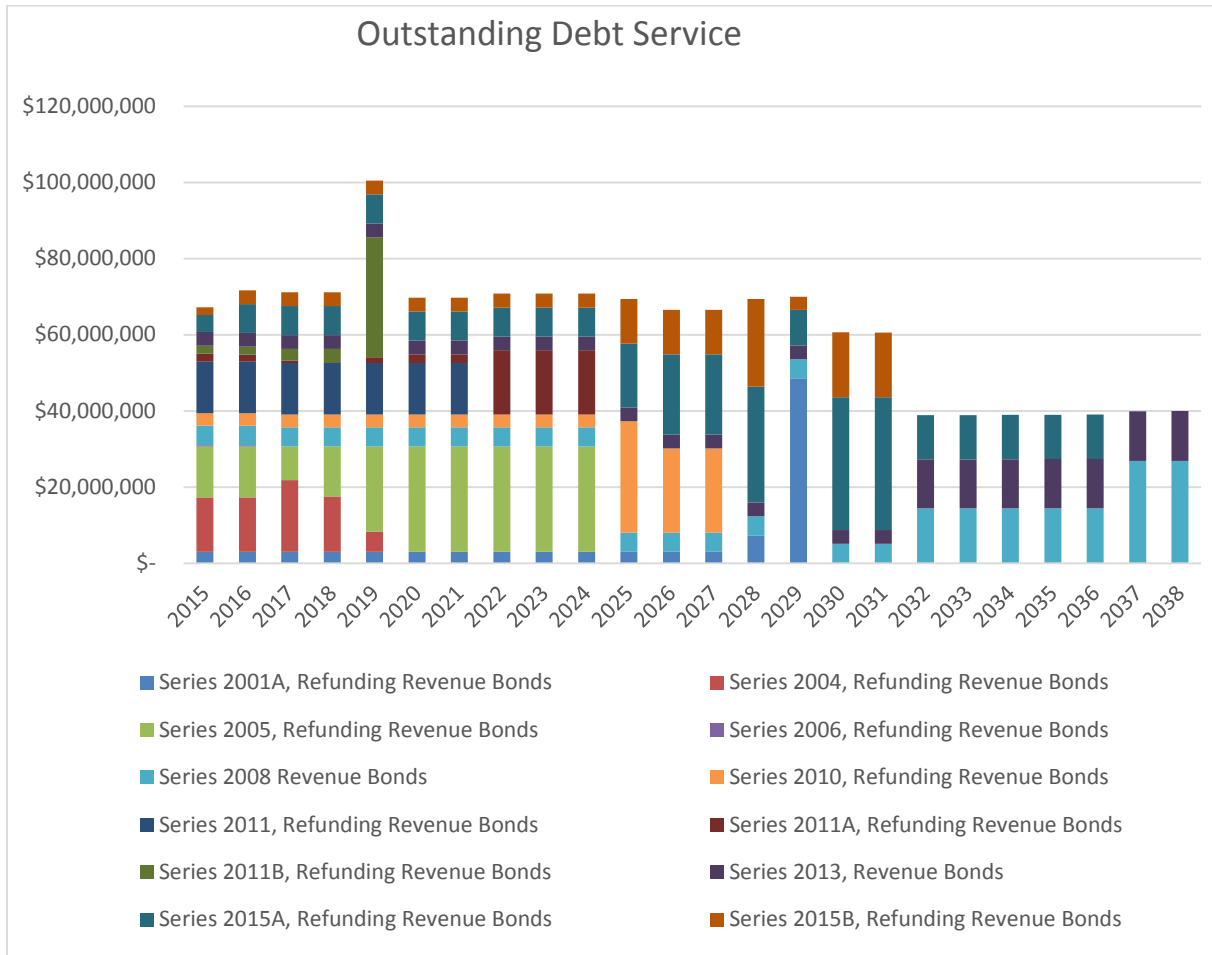
Tampa Bay Water’s 2001A, 2004, 2005 and 2006 Bonds are insured by Financial Guaranty Insurance Company (FGIC) and at the time of issuance the insured ratings were AAA rated by the three rating agencies. In early 2008, the insurer’s financial strength and ratings were downgraded by Moody’s, Fitch and Standard & Poor’s to ratings below those of Tampa Bay Water. Due to Tampa Bay Water’s increasingly strong ratings, we have not seen any impact on the agency’s debt. The 2008, 2010, 2011, 2011A, 2011B, 2013, 2015A and 2015B Bonds are uninsured.

## Tampa Bay Water – 2016 Annual Budget Debt Service

### Outstanding Debt Service

The Series 2015A and 2015B bonds closed on March 3, 2015, and refinanced all of the medium term notes in Series 2011A bonds and the majority of the medium term notes in Series 2011B bonds. The Series 2015A and 2015B Bonds achieved net present value savings of \$31.1 million and resulted in 97% of the outstanding debt service being in traditional fixed rate debt, giving the Agency a conservative debt portfolio.

The table below shows Tampa Bay Water’s current long-term Debt Service obligations.



### Future Borrowing

The 2011B Refunding Bonds have short term maturities in fiscal year 2019. These maturities will be refinanced either at the stated maturity date or earlier.

# Capital Improvement Program

Fiscal Year 2016

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The Capital Improvement Program section provides summary information about the Agency's current capital projects. This includes projects that are scheduled to be in the feasibility, design and construction phases during fiscal year 2016.

## **Tampa Bay Water – 2016 Annual Budget Capital Improvement Program**

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In fiscal year 2010, Tampa Bay Water redeveloped its capital planning procedures. This has resulted in a more efficient and comprehensive project evaluation and prioritization process. Tampa Bay Water's five year plan for its Capital Improvement Program is presented in a separate document titled "Capital Improvement Program Fiscal Years 2016 through 2020".

This section will provide details of only those projects Tampa Bay Water will be managing during fiscal year 2016.

### **Capital Improvement Program Background**

Tampa Bay Water's Capital Improvement Program (CIP) is intended to identify all projects that:

- Ensure the public has sufficient water supplies
- Meet the compliance obligations of the Amended and Restated Interlocal Agreement
- Improve the reliability of the regional system
- Have been recommended through the renewal and replacement analysis

The CIP is primarily a planning document that is updated annually and subject to changes as the needs for specific projects become more defined and final approval of projects is adopted by the Tampa Bay Water Board of Directors.

For those projects receiving funding through the Uniform Rate, the Renewal and Replacement Fund or the Capital Improvement Fund, the 2016 CIP Budget is the basis for budgeted expenditures when adopting the 2016 Annual Budget.

### **Goals**

The following goals are used by Tampa Bay Water staff to develop the annual capital budget and the CIP:

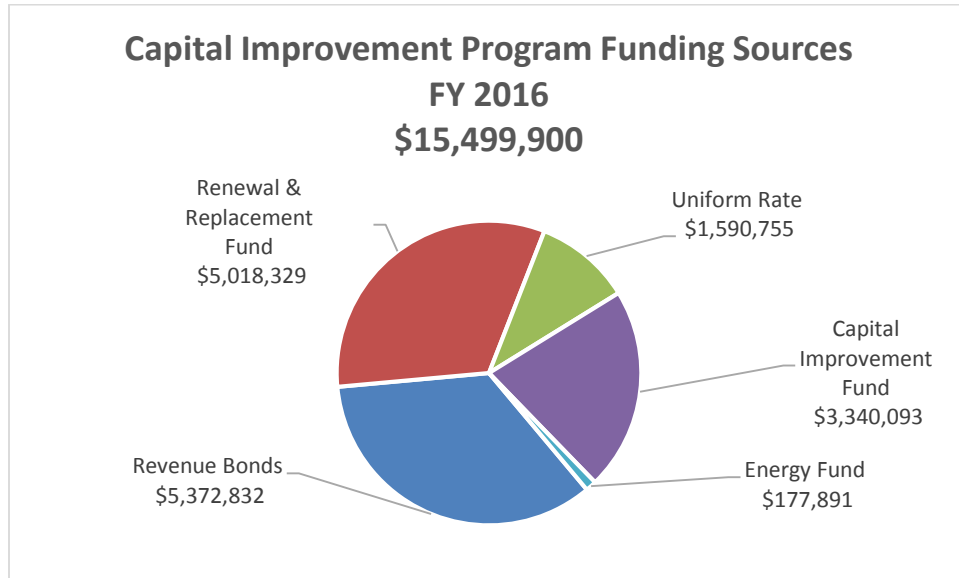
- Identify and prioritize capital improvements projects through a coordinated departmental effort that considers the integration of planning and development, engineering, construction, and financing requirements.
- Classify requested projects to ensure the planned activity meets the requirements for a capital project.
- Develop a time line for each project being considered.
- Develop a funding scenario for each project that identifies a funding source, a cash flow estimate, and future operating costs, if applicable.

## Tampa Bay Water – 2016 Annual Budget Capital Improvement Program

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### 2016 Capital Improvement Program Funding

For fiscal year 2016, Tampa Bay Water has \$15,499,900 of planned projects. Financing for scheduled Capital Improvement Program projects is summarized by funding source in the following chart.



### Capital Improvement Financing

#### **Revenue Bonds**

Tampa Bay Water’s current Capital Improvement Program will use funds obtained through the issuance of Revenue Bonds. Bond proceeds are placed in a restricted Construction Fund until disbursed for the intended purpose.

#### **Capital Improvement Fund**

The Capital Improvement Fund may be used to fund any Board approved Capital Project and is funded by charges collected or other funds received, such as proceeds from the sale of surplus property.

#### **Renewal and Replacement Fund**

The Renewal and Replacement Fund is currently funding projects where major repairs or replacement of specific components are needed to maintain the service level of the water supply, treatment, and distribution system.

#### **Uniform Rate**

The Uniform Rate generally funds projects that improve existing facilities. Uniform Rate projects are considered routine and include, studies, assessments or evaluations, technological upgrades, facility remodeling or renovations, and Phase I Mitigation projects.

**Tampa Bay Water – 2016 Annual Budget  
Capital Improvement Program**

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**Energy Program Fund**

The Energy Fund Program is funded with revenue generated from an agreement with Tampa Electric Company’s (TECO) Commercial Demand Response Program provider ENERNOC. Tampa Bay Water earns revenue quarterly by agreeing to reduce electricity consumption when TECO calls for a demand response event such as the reduction of energy usage to lower peak demand.

In addition, Tampa Bay Water has operating facilities that receive power from Withlacoochee River Electric Cooperative (WREC). As a member of the cooperative, Tampa Bay Water shares in the excess annual profits of WREC. Reimbursement of these profits are deposited into the Energy Fund Program.

Projects using Energy Program Funds must result in energy savings.

**Other Funding Sources**

Tampa Bay Water also seeks and obtains available grant funding for its projects from the Southwest Florida Water Management District, the State of Florida, the U.S. Environmental Protection Agency, and other Federal grant programs.

During fiscal year 2015, Tampa Bay Water was awarded a \$250,000 grant from the Florida Department of Environmental Protection to fund construction of the South Pasco Generator and Fuel Tank Project. Construction of this project is scheduled for fiscal year 2016.

**FISCAL YEAR 2016 PROJECT LIST BY FUNDING SOURCE**

**Revenue Bonds**

<b>Project #</b>	<b>Project Name</b>	<b>FY 2016</b>
06316	Regional Reservoir Terrace Drains	\$ 171,804
06317	South Central Hillsborough Regional WF Improvements	\$ 101,517
06318	Regional Reservoir Ponds Inlets/Outlets Repairs	\$ 385,000
06319	Regional Reservoir Siren System Upgrade	\$ 203,904
07006	South Pasco Generator and Fuel Tank	\$ 385,902
07131	Cosme WTP Yard	\$ 904,880
07401	Tampa Bay Seawater Desalination Reliability Program	\$ 1,299,082
07535	Cypress Creek Console Area Upgrades	\$ 139,320
07536	HSPS Console Area Upgrades	\$ 122,926
07539	HSPS Switchgear Modifications	\$ 367,304
09007	Master Water Plan	\$ 235,435
50016	Eldridge-Wilde WF Pumps & Motors Replacement	\$ 314,147
50036	Medium Voltage Variable Frequency Drive Upgrade - Repump Station	\$ 659,564
50040	Eldridge Wilde WF Underground Power line	\$ 82,046
<b>TOTAL FY 2016 REVENUE BOND FUNDED PROJECTS</b>		<b>\$ 5,372,831</b>

**Tampa Bay Water – 2016 Annual Budget  
Capital Improvement Program**

**Renewal & Replacement Fund**

Project #	Project Name	FY 2016
09005	Cosme Bypass Analyzer Enclosure	\$ 162,000
11004	Cypress Creek Crossing Wellfield Collection Main Replacement	\$ 5,917
50010	HSPS Improvements Pumps 1-5	\$ 26,718
50013	Cypress Creek WF MCCs Replacement & Arc Flash Mitigation	\$ 399,236
50020	Alafia River Pump Station Pumps 1, 2, and 3	\$ 1,015,320
50021	Morris Bridge WF MCCs and Transformers Replacement	\$ 71,115
50028	Facilities Site-SWTP Process Water Piping Repairs	\$ 326,944
50029	BUD Well Fields Arc Flash Mitigation and VFDs Replacement	\$ 691,000
50030	South Central Hillsborough Arc Flash Mitigation	\$ 602,998
50031	Cypress Bridge WF Arc Flash Mitigation	\$ 2,663
50032	South Pasco WF Arc Flash Mitigation	\$ 8,011
50034	Medium Voltage Variable Frequency Drive Upgrades - Alafia PS	\$ 142,029
50035	Medium Voltage Variable Frequency Drive Upgrade - CCPS	\$ 570,000
50038	Regional Reservoir Toe Drain Outfall Monitoring Points	\$ 711,565
50039	TBC Air Burst System Improvements	\$ 69,619
50041	NW Hillsborough WF Motor Control Centers and Arc Flash Mitigation	\$ 113,194
50050	Renewal and Replacement Program As-needed Activities	\$ 100,000
<b>TOTAL FY 2016 RENEWAL &amp; REPLACEMENT FUND PROJECTS</b>		<b>\$ 5,018,329</b>

**Capital Improvement Fund**

Project #	Project Name	FY 2016
07002	North System Pressure Modification Project	\$ 863,970
07006	South Pasco Generator and Fuel Tank	\$ 42,198
07152	Cross Bar Ranch Wellfield - Pumps Replacement	\$ 1,165,769
07538	Cypress Creek WTP Yard Pipe	\$ 584,738
07539	HSPS Switchgear Modifications	\$ 683,419
<b>TOTAL FY 2016 CAPITAL IMPROVEMENT FUND PROJECTS</b>		<b>\$ 3,340,094</b>

**Uniform Rate**

Project #	Project Name	FY 2016
06317	South Central Hillsborough Regional WF Improvements	\$ 124,000
09004	Cosme WTP and St. Petersburg's POC Update	\$ 61,489
09005	Cosme Bypass Analyzer Enclosure	\$ 5,266
09007	Master Water Plan	\$ 600,000
11006	South Pasco Transmission Main Condition Assessment	\$ 800,000
<b>TOTAL FY 2016 UNIFORM RATE FUNDED PROJECTS</b>		<b>\$ 1,590,755</b>



**Tampa Bay Water – 2016 Annual Budget  
Capital Improvement Program**

**Energy Fund**

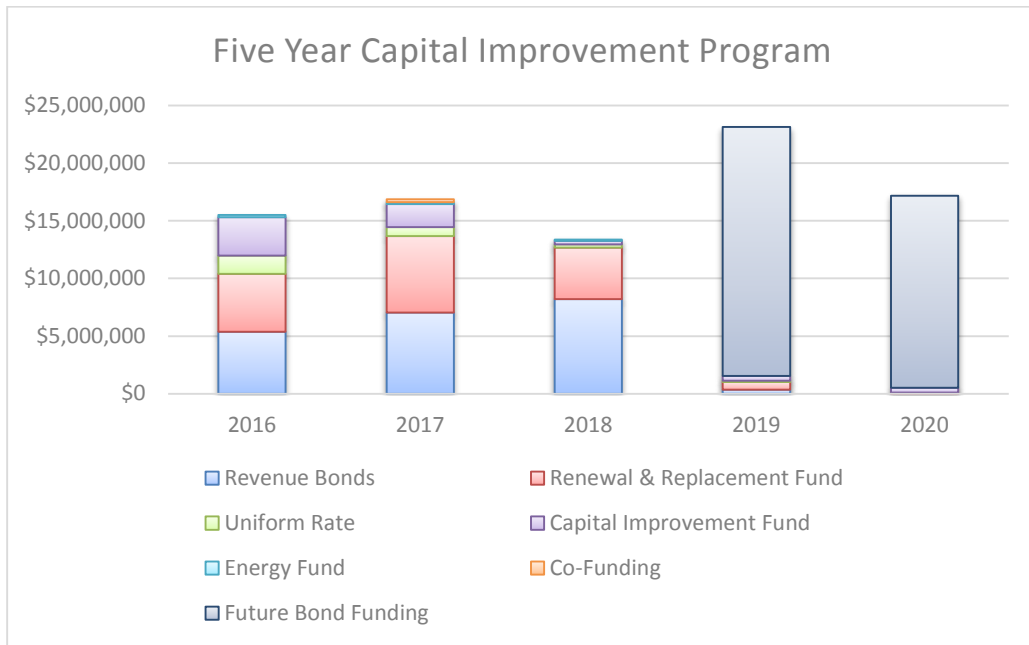
Project #	Project Name	FY 2016
52001	Cypress Creek Pump Station Pumps Repair Program	\$ 177,891
<b>TOTAL FY 2016 ENERGY FUND PROJECTS</b>		<b>\$ 177,891</b>

**TOTAL FY 2016 CAPITAL IMPROVEMENT PROGRAM** **\$ 15,,499,900**

**Five Year Capital Improvement Budget Projections**

The “Capital Improvement Program Fiscal Years 2016 through 2020” document provides details of a five year projection of total capital projects.

The chart below shows a budgetary summary of the five year CIP by funding source.



Further program and project detail is provided in a separate document titled “Tampa Bay Water’s Capital Improvement Program Fiscal 2016-2020”.

<http://www.tampabaywater.org/documents/financials/CIP-2016-2020-6.22.15.pdf>

Details for only those projects Tampa Bay Water will be managing during fiscal year 2016 are included on the preceding pages.



## 06316 - Regional Reservoir Terrace Drains

**Project Description:** The reservoir terrace drains have experienced significant maintenance in the past 10 years. Drains have had to be replaced and rutting repaired on the terrace. At the base of the slope quantities of soil have accumulated at the problematic drains necessitating its removal. A low-maintenance design alternative to replace the drains with a 10:1 grassed slope is proposed. The reservoir toe swales have also experienced extraordinary maintenance in the past 10 years-standing water continues to remain in sections. Toe swale improvements include adding positive drainage to eliminate the standing water and rutting from mowing operations.

**Project Purpose:** This project is necessary to promote effective long term maintenance of the terrace drains.

**Other Information:**

**Program/Source:** Reliability; Renewal and Replacement Program

General Project Location		Project Schedule		
		Project Stage	Start Date	End Date
		Professional Services	3/2/2015	6/15/2015
		Design	6/16/2015	6/13/2016
		Construction/Procure	6/14/2016	2/7/2017
		Const	2/8/2017	2/27/2020
Additional Information				
Annual Maintenance Costs Net Change Upon Completion			\$0	
Annual Operating Cost Net Change Upon Completion			\$0	
Date First in CIP			1/20/2015	
Initial Cost Estimate as of Date First in CIP			\$3,200,000	
Funding Sources		Funding Needed		
2013 Bond		\$1,837,145		
Not Yet Determined (Revenue)		\$1,362,855		
<b>TOTALS</b>		<b>\$3,200,000</b>		

### Expenditure Plan

Cost Element	Thru FY2014 (actual)	FY2015 Revised	FY2016 Budgeted	FY2017 Budgeted	FY2018 Budgeted	FY2019 Budgeted	FY2020 Budgeted	Future Budgeted	TOTALS
Engineering (Concept/Planning)	\$0	\$65,702	\$171,096	\$14,202	\$0	\$0	\$0	\$0	\$251,000
Engineering (Construction)	\$0	\$0	\$0	\$26,257	\$40,956	\$40,956	\$16,831	\$0	\$125,000
Legal	\$0	\$292	\$708	\$0	\$0	\$0	\$0	\$0	\$1,000
Construction	\$0	\$0	\$0	\$395,321	\$616,634	\$616,634	\$253,411	\$0	\$1,882,000
Contingency	\$0	\$0	\$0	\$197,661	\$308,317	\$308,317	\$126,706	\$0	\$941,000
<b>TOTALS</b>	<b>\$0</b>	<b>\$65,995</b>	<b>\$171,804</b>	<b>\$633,440</b>	<b>\$965,907</b>	<b>\$965,907</b>	<b>\$396,948</b>	<b>\$0</b>	<b>\$3,200,000</b>



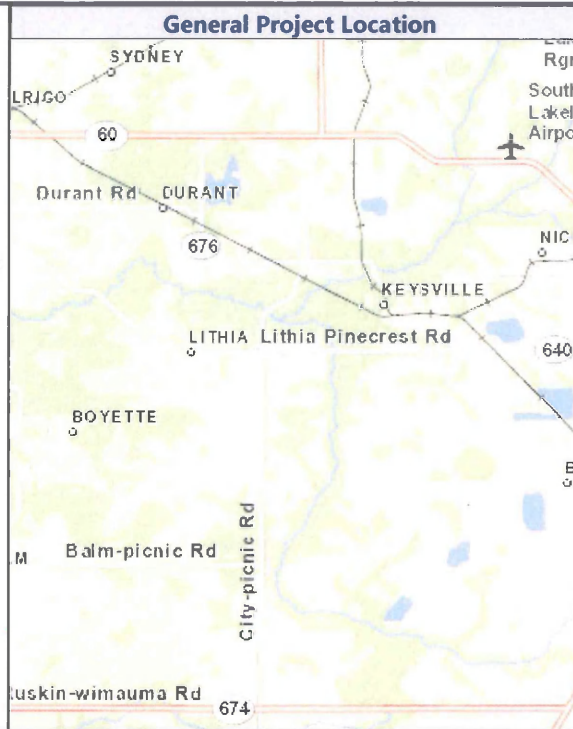
## 06317 - South Central Hillsborough Regional WF Improvements

**Project Description:** The following items will be included in this project:  
 Investigate pipe leak location at SR-39 and Thompson Road; Confirm wire damage and replace pipe section near Well #6; Complete a surge evaluation of the wellfield piping with the new pumps and downstream head conditions and recommend surge mitigation strategy; Evaluate best location for a pressure control valve to increase pressure in portions of the wellfield that are at higher elevations; Design and construct surge mitigation and pressure improvements.

**Project Purpose:** This project will address low pressure and surge relief issues in the South-Central Wellfield, and investigate two potential problem pipeline areas that were identified as part of the pipeline Condition Assessment in 2013.

**Other Information:**

**Program/Source:** Reliability



Project Schedule		
Project Stage	Start Date	End Date
Test	11/2/2015	5/24/2016
Professional Services	5/25/2016	7/27/2016
Design	7/28/2016	1/18/2017
Construction/Procure	1/19/2017	5/25/2017
Const	5/26/2017	4/9/2018
Additional Information		
Annual Maintenance Costs Net Change Upon Completion		\$1,597
Annual Operating Cost Net Change Upon Completion		\$245,490
Date First in CIP		1/20/2015
Initial Cost Estimate as of Date First in CIP		\$3,240,000
Funding Sources		Funding Needed
2013 Bond		\$2,216,000
Uniform Rate		\$124,000
<b>TOTALS</b>		<b>\$2,340,000</b>

### Expenditure Plan

Cost Element	Thru FY2014 (actual)	FY2015 Revised	FY2016 Budgeted	FY2017 Budgeted	FY2018 Budgeted	FY2019 Budgeted	FY2020 Budgeted	Future Budgeted	TOTALS
Engineering (Concept/Planning)	\$0	\$0	\$138,368	\$135,632	\$0	\$0	\$0	\$0	<b>\$274,000</b>
Engineering (Construction)	\$0	\$0	\$0	\$128,597	\$193,403	\$0	\$0	\$0	<b>\$322,000</b>
Legal	\$0	\$0	\$1,103	\$1,897	\$0	\$0	\$0	\$0	<b>\$3,000</b>
Construction	\$0	\$0	\$0	\$496,418	\$746,582	\$0	\$0	\$0	<b>\$1,243,000</b>
Contingency	\$0	\$0	\$86,046	\$201,734	\$210,220	\$0	\$0	\$0	<b>\$498,000</b>
<b>TOTALS</b>	<b>\$0</b>	<b>\$0</b>	<b>\$225,517</b>	<b>\$964,278</b>	<b>\$1,150,204</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$2,340,000</b>



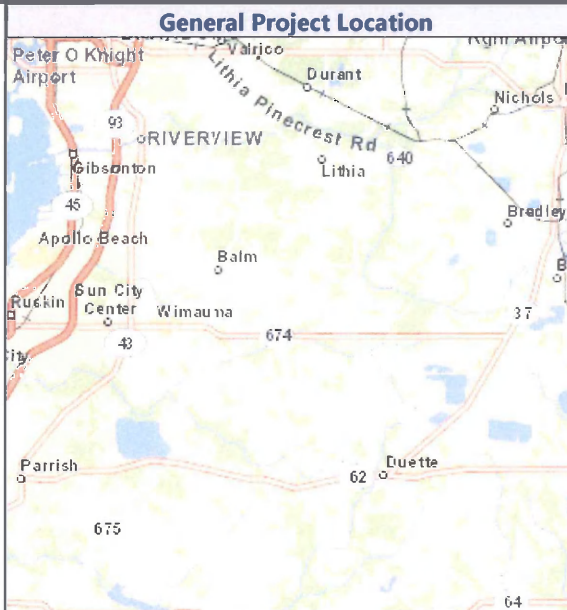
## 06318 - Regional Reservoir Ponds Inlets/Outlets Repairs

**Project Description:** Several pond inlet pipes around the reservoir have experienced erosion adjacent to and underneath the mitered end section collars. An in-house design for repairs was performed January 2015 for the single Pond 2 inlet at a cost of \$13,000 to determine the cost and durability of the repair design. This project will roll-out the Pond 2 design approach to inlets to Ponds 1, 5, 6 and 7, and other ponds which may have erosion issues. Pond outlet repairs are also needed for Ponds 2 and 7 where water is bypassing under the outlet weir(s).

**Project Purpose:** Repair erosion problems at selected Pond inlet and outlets.

**Other Information:**

**Program/Source:** Reliability; Renewal and Replacement Program



Project Schedule		
Project Stage	Start Date	End Date
Design	4/27/2015	7/29/2015
Construction/Procure	7/30/2015	10/29/2015
Const	10/30/2015	6/27/2016
Additional Information		
Annual Maintenance Costs Net Change Upon Completion	\$0	
Annual Operating Cost Net Change Upon Completion	\$0	
Date First in CIP	2/5/2015	
Initial Cost Estimate as of Date First in CIP	\$345,000	
Funding Sources		Funding Needed
2013 Bond		\$385,000
<b>TOTALS</b>		<b>\$385,000</b>

### Expenditure Plan

Cost Element	Thru FY2014 (actual)	FY2015 Revised	FY2016 Budgeted	FY2017 Budgeted	FY2018 Budgeted	FY2019 Budgeted	FY2020 Budgeted	Future Budgeted	TOTALS
Engineering (Construction)	\$0	\$0	\$40,000	\$0	\$0	\$0	\$0	\$0	\$40,000
Construction	\$0	\$0	\$265,000	\$0	\$0	\$0	\$0	\$0	\$265,000
Contingency	\$0	\$0	\$80,000	\$0	\$0	\$0	\$0	\$0	\$80,000
<b>TOTALS</b>	<b>\$0</b>	<b>\$0</b>	<b>\$385,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$385,000</b>



## 06319 - Regional Reservoir Siren System Upgrade

**Project Description:** This project will include a study of available siren types, existing rights of way for siren placement and acquisition of new fee owned parcels if additional property is required for the upgrade.

**Project Purpose:**

**Other Information:**

**Program/Source:** Reliability

General Project Location		Project Schedule	
	<b>Project Stage</b>	<b>Start Date</b>	<b>End Date</b>
	Professional Services	2/23/2015	6/15/2015
	Design	6/20/2015	10/31/2016
	Construction/Procure	10/10/2016	4/17/2017
	Const	4/18/2017	6/18/2018
<b>Additional Information</b>			
Annual Maintenance Costs Net Change Upon Completion		\$3,168	
Annual Operating Cost Net Change Upon Completion		\$0	
Date First in CIP		2/5/2015	
Initial Cost Estimate as of Date First in CIP		\$1,494,000	
<b>Funding Sources</b>		<b>Funding Needed</b>	
2005 Bond		\$278,000	
2013 Bond		\$1,216,000	
<b>TOTALS</b>		<b>\$1,494,000</b>	

### Expenditure Plan

Cost Element	Thru FY2014 (actual)	FY2015 Revised	FY2016 Budgeted	FY2017 Budgeted	FY2018 Budgeted	FY2019 Budgeted	FY2020 Budgeted	Future Budgeted	TOTALS
Engineering (Concept/Planning)	\$0	\$32,910	\$118,088	\$20,002	\$0	\$0	\$0	\$0	<b>\$171,000</b>
Engineering (Construction)	\$0	\$0	\$0	\$31,761	\$50,239	\$0	\$0	\$0	<b>\$82,000</b>
Land Acquisition	\$0	\$20,441	\$73,347	\$6,212	\$0	\$0	\$0	\$0	<b>\$100,000</b>
Legal	\$0	\$3,475	\$12,469	\$1,056	\$0	\$0	\$0	\$0	<b>\$17,000</b>
Construction	\$0	\$0	\$0	\$334,648	\$529,352	\$0	\$0	\$0	<b>\$864,000</b>
Contingency	\$0	\$0	\$0	\$100,704	\$159,296	\$0	\$0	\$0	<b>\$260,000</b>
<b>TOTALS</b>	<b>\$0</b>	<b>\$56,826</b>	<b>\$203,904</b>	<b>\$494,383</b>	<b>\$738,887</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$1,494,000</b>



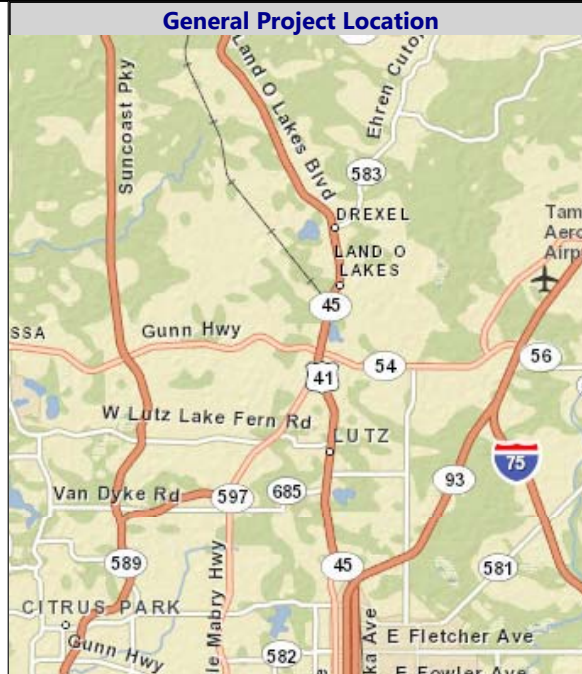
## 07006 - South Pasco Generator and Fuel Tank

**Project Description:** The purpose of this project to replace the existing 1,100 KW generator with an 1,000 KW generator at the South Pasco Wellfield which has reached the end of its useful life. This project has been recommended by the prioritization process of Tampa Bay Water's Renewal and Replacement Program. This project also includes the installation of a 10,000-gal fuel storage system for the generator. The generator and associated fuel tank are critical for the supply of power to the South Pasco Wellfield during emergency conditions. The South Pasco Wellfield has been identified as critical to the region's water supply in the 2025 Capital Improvement Program Analysis. In addition to the above, a larger fuel tank is required to increase the run time to 72 hours and the existing overcurrent protection devices and switches shall be replaced with new based on the new generator rating and capacity. Also, the demolition, disconnection and removal from site, of the existing generator and fuel tank shall be made. The existing generator cannot remain on site.

**Project Purpose:** The larger tank will allow for additional fuel capacity, during emergency situations and will lessen the frequency of refueling.

**Other Information:** Tampa Bay Water has been awarded a Federal Emergency Management Agency Grant in the amount of \$250,000 for this project.

**Program/Source:** Reliability; Renewal and Replacement Program



Project Schedule		
Project Stage	Start Date	End Date
Design	6/1/2015	1/11/2016
Construction/Procure	1/18/2016	4/29/2016
Const	6/20/2016	4/21/2017
Additional Information		
Annual Maintenance Costs Net Change Upon Completion		\$2,940
Annual Operating Cost Net Change Upon Completion		\$0
Date First in CIP		10/16/2009
Initial Cost Estimate as of Date First in CIP		\$116,250
Funding Sources		Funding Needed
2013 Bond		\$833,000
Capital Improvement Fund		\$158,000
Other		\$250,000
<b>TOTALS</b>		<b>\$1,241,000</b>

### Expenditure Plan

Cost Element	Thru FY2014 (actual)	FY2015 Revised	FY2016 Budgeted	FY2017 Budgeted	FY2018 Budgeted	FY2019 Budgeted	FY2020 Budgeted	Future Budgeted	TOTALS
Engineering (Concept/Planning)	\$0	\$44,879	\$42,197	\$0	\$0	\$0	\$0	\$0	<b>\$87,076</b>
Engineering (Construction)	\$0	\$0	\$23,719	\$47,205	\$0	\$0	\$0	\$0	<b>\$70,924</b>
Construction	\$0	\$0	\$314,695	\$626,305	\$0	\$0	\$0	\$0	<b>\$941,000</b>
Contingency	\$0	\$0	\$47,489	\$94,511	\$0	\$0	\$0	\$0	<b>\$142,000</b>
<b>TOTALS</b>	<b>\$0</b>	<b>\$44,879</b>	<b>\$428,099</b>	<b>\$768,022</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$1,241,000</b>



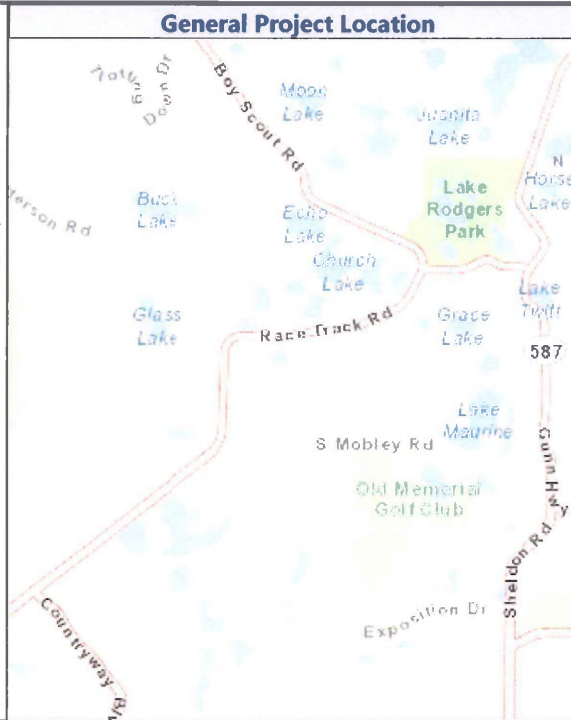
## 07131 - Cosme WTP Yard

**Project Description:** This project will construct modifications to the existing Cosme Bypass line that will include the relocation of a pressure/flow control device from the existing piping to limit the flow from the plant to the City's Oberley Pump Station. This work will also include installing a below grade isolation valve and connection on the City's finished water line, and modifications to the existing Tampa Bay Water finished water bypass piping. The project will also include a temporary easement acquisition, permitting, and construction.

**Project Purpose:** These piping modifications will provide the ability to the City of St. Petersburg to control the flow to the City's Oberley Pump Station, while being able to provide the maximum available flow of finished water to Tampa Bay Water through the Cosme Bypass piping. This will allow surplus capacity at the Cosme Water Treatment Facility to be routed to the Regional Transmission System in case of an emergency outage of the 84-inch transmission main. Flows at this interconnection will range from 0 to 13.9 mgd.

**Other Information:**

**Program/Source:** Reliability



Project Schedule		
Project Stage	Start Date	End Date
Design, Phase 1	5/4/2007	9/30/2009
Design	5/4/2015	11/17/2015
Construction/Procure	11/18/2015	2/15/2016
Const	2/16/2016	2/20/2017
Additional Information		
Annual Maintenance Costs Net Change Upon Completion	\$0	
Annual Operating Cost Net Change Upon Completion	\$10,000	
Date First in CIP	10/16/2009	
Initial Cost Estimate as of Date First in CIP	\$1,623,780	
Funding Sources	Funding Needed	
2013 Bond	\$1,564,032	
Capital Improvement Fund	\$36,875	
Uniform Rate	\$900	
<b>TOTALS</b>	<b>\$1,601,807</b>	

### Expenditure Plan

Cost Element	Thru FY2014 (actual)	FY2015 Revised	FY2016 Budgeted	FY2017 Budgeted	FY2018 Budgeted	FY2019 Budgeted	FY2020 Budgeted	Future Budgeted	TOTALS
Engineering (Concept/Planning)	\$36,875	\$36,174	\$11,653	\$0	\$0	\$0	\$0	\$0	\$84,702
Engineering (Construction)	\$0	\$0	\$101,969	\$64,236	\$0	\$0	\$0	\$0	\$166,205
Land Acquisition	\$0	\$37,817	\$12,183	\$0	\$0	\$0	\$0	\$0	\$50,000
Legal	\$0	\$37,817	\$12,183	\$0	\$0	\$0	\$0	\$0	\$50,000
Construction	\$0	\$0	\$613,514	\$386,486	\$0	\$0	\$0	\$0	\$1,000,000
Contingency	\$0	\$0	\$153,378	\$96,622	\$0	\$0	\$0	\$0	\$250,000
Permit Fees	\$900	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$900
<b>TOTALS</b>	<b>\$37,775</b>	<b>\$111,808</b>	<b>\$904,880</b>	<b>\$547,344</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$1,601,807</b>



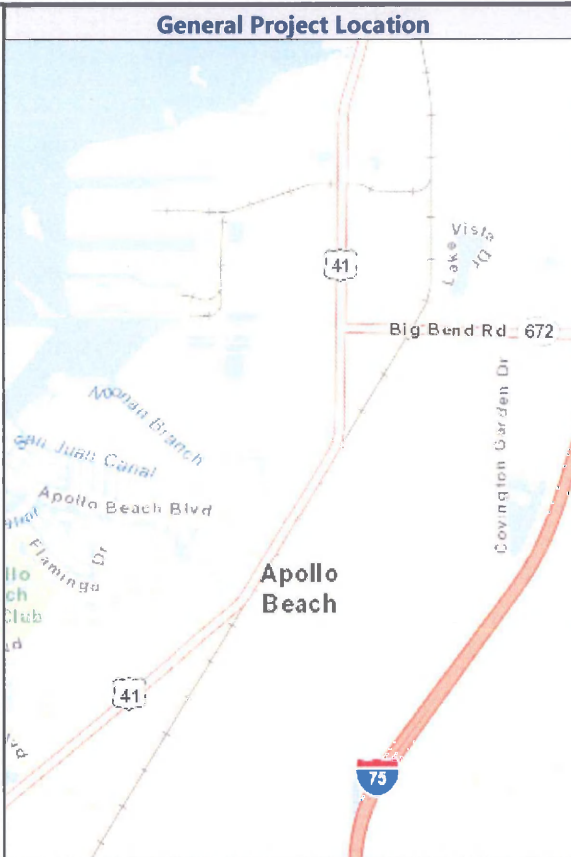
## 07401 - Tampa Bay Seawater Desalination Reliability Program

**Project Description:** This reliability program will implement projects/tasks that are needed in future years that will provide the necessary reliability to the Desalination facility. Phase 1 included the replacement of 4th Seawater Pump; Seawater and Concentrate Above Grade Piping Replacement; 13.2 kV Transformer Installation; Installation of Pre-Treatment Sodium Bisulfate System, Replacement of the 2nd Pass Membranes. Phase 2 includes Design and Construction of a 2nd Scavenger Tank and a Diatomaceous Earth Storage Building. Phase 3 includes the additions of the intake plug and inspection of the tunnel 3 intake piping, replacement of the intake piping and pump station repair. Phases 4 and Phase 5 includes additional replacement activities yet to be determined.

**Project Purpose:** The Tampa Bay Seawater Desalination Facility is a critical operating component of Tampa Bay Water. The projects/tasks derived from the Reliability Program will enable the facility to continue to produce at its rated capacity.

**Other Information:**

**Program/Source:** Reliability; Renewal and Replacement Program



Project Schedule		
Project Stage	Start Date	End Date
Construction, Phase 1	12/30/2009	9/30/2013
Construction, Phase 2	10/1/2013	12/31/2015
Construction, Phase 3	6/1/2014	1/15/2016
Construction, Phase 4	10/1/2018	9/30/2022
Construction, Phase 5	10/1/2022	9/30/2024
Additional Information		
Annual Maintenance Costs Net Change Upon Completion	\$0	
Annual Operating Cost Net Change Upon Completion	\$0	
Date First in CIP	10/16/2010	
Initial Cost Estimate as of Date First in CIP	\$14,000,000	
Funding Sources	Funding Needed	
2008 Bond	\$80,365	
2013 Bond	\$7,836,708	
Capital Improvement Fund	\$70,304	
FLGFC-Desal	\$2,991,680	
Not Yet Determined (Revenue)	\$13,632,000	
Uniform Rate	\$84,645	
<b>TOTALS</b>	<b>\$24,695,702</b>	

### Expenditure Plan

Cost Element	Thru FY2014 (actual)	FY2015 Revised	FY2016 Budgeted	FY2017 Budgeted	FY2018 Budgeted	FY2019 Budgeted	FY2020 Budgeted	Future Budgeted	TOTALS
Engineering (Concept/Planning)	\$267,397	\$1,344,485	\$273,939	\$0	\$0	\$750,937	\$755,063	\$3,606,000	<b>\$6,997,822</b>
Construction	\$2,922,863	\$5,159,570	\$1,095,446	\$0	\$0	\$1,251,562	\$1,258,438	\$6,010,000	<b>\$17,697,880</b>
<b>TOTALS</b>	<b>\$3,190,260</b>	<b>\$6,504,056</b>	<b>\$1,369,386</b>	<b>\$0</b>	<b>\$0</b>	<b>\$2,002,499</b>	<b>\$2,013,501</b>	<b>\$9,616,000</b>	<b>\$24,695,702</b>





## 07535 - Cypress Creek Console Area Upgrades

**Project Description:** This project will replace the existing 10-year old units for which it is becoming difficult to obtain cost effective replacements, with new units. No structural modifications will be required. Electrical and HVAC modifications will be limited to adjustments to accommodate the new layout. Room demo will include the removal of dead wiring in the ceiling plenum, modify/new ceiling penetrations, and removal of the original console concrete pad. New flooring, a more ergonomic layout and a new operating/viewing platform will be included.

**Project Purpose:** Demo existing console and extra wiring in plenum area. Install new console and flooring. Existing console is at end of its useful life.

**Other Information:**

**Program/Source:** Reliability

General Project Location		Project Schedule	
	<b>Project Stage</b>	<b>Start Date</b>	<b>End Date</b>
	Professional Services	12/1/2014	8/14/2015
	Design	8/17/2015	2/16/2016
	Const	2/17/2016	8/20/2018
<b>Additional Information</b>			
Annual Maintenance Costs Net Change Upon Completion		\$0	
Annual Operating Cost Net Change Upon Completion		(\$450)	
Date First in CIP		12/12/2013	
Initial Cost Estimate as of Date First in CIP		\$452,000	
<b>Funding Sources</b>		<b>Funding Needed</b>	
2013 Bond		\$452,000	
<b>TOTALS</b>		<b>\$452,000</b>	

### Expenditure Plan

Cost Element	Thru FY2014 (actual)	FY2015 Revised	FY2016 Budgeted	FY2017 Budgeted	FY2018 Budgeted	FY2019 Budgeted	FY2020 Budgeted	Future Budgeted	TOTALS
Engineering (Concept/Planning)	\$0	\$12,022	\$37,978	\$0	\$0	\$0	\$0	\$0	\$50,000
Engineering (Construction)	\$0	\$0	\$9,880	\$15,956	\$14,164	\$0	\$0	\$0	\$40,000
Construction	\$0	\$0	\$67,923	\$109,699	\$97,377	\$0	\$0	\$0	\$275,000
Contingency	\$0	\$962	\$23,539	\$33,109	\$29,390	\$0	\$0	\$0	\$87,000
<b>TOTALS</b>	<b>\$0</b>	<b>\$12,984</b>	<b>\$139,320</b>	<b>\$158,765</b>	<b>\$140,931</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$452,000</b>



## 07536 - HSPS Console Area Upgrades

**Project Description:** This project will replace the existing dispersed individual SCADA screens with a unified master SCADA display for more secure and safe monitoring and operation of the entire regional system. This project will also provide full control redundancy for at HSPS which is not currently available using the dispersed individual screens. The project will modify the existing control room at the High Service Pump Station. No structural modifications will be required. Electrical and HVAC modifications will be limited to adjustments to accommodate the new layout. Room demo will therefore be relatively limited. New flooring, an ergonomic layout, and operating/viewing platform will be included.

**Project Purpose:** Demo existing cubicle area and flooring. Install new flooring and console.

**Other Information:**

**Program/Source:** Reliability



General Project Location		Project Schedule	
Project Stage	Start Date	End Date	
Professional Services	12/1/2014	8/14/2015	
Design	8/17/2015	2/16/2016	
Const	2/17/2016	8/20/2018	
Additional Information			
Annual Maintenance Costs Net Change Upon Completion		\$0	
Annual Operating Cost Net Change Upon Completion		(\$504)	
Date First in CIP		3/31/2015	
Initial Cost Estimate as of Date First in CIP		\$2,955,000	
Funding Sources		Funding Needed	
2013 Bond		\$396,000	
<b>TOTALS</b>		<b>\$396,000</b>	

### Expenditure Plan

Cost Element	Thru FY2014 (actual)	FY2015 Revised	FY2016 Budgeted	FY2017 Budgeted	FY2018 Budgeted	FY2019 Budgeted	FY2020 Budgeted	Future Budgeted	TOTALS
Engineering (Concept/Planning)	\$0	\$11,781	\$37,219	\$0	\$0	\$0	\$0	\$0	\$49,000
Engineering (Construction)	\$0	\$0	\$9,139	\$14,760	\$13,102	\$0	\$0	\$0	\$37,000
Construction	\$0	\$0	\$61,255	\$98,929	\$87,816	\$0	\$0	\$0	\$248,000
Contingency	\$0	\$0	\$15,314	\$24,732	\$21,954	\$0	\$0	\$0	\$62,000
<b>TOTALS</b>	<b>\$0</b>	<b>\$11,781</b>	<b>\$122,926</b>	<b>\$138,421</b>	<b>\$122,872</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$396,000</b>



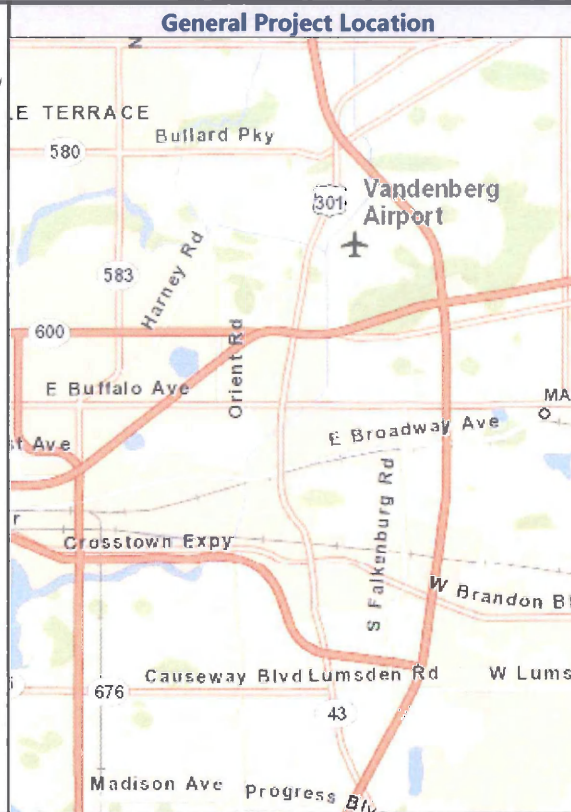
## 07539 - HSPS Switchgear Modifications

**Project Description:** This project will increase the power source reliability and selectivity of power sources at the High Service Pump Station (HSPS). The existing main switchgear at the HSPS will be extended and a second electrically separate 15 kV power source from the public utility will be provided. This will entail new medium voltage breakers, new bus extension and the relocation of existing load breakers to the new bus extension. Additionally, the project includes the replacement of the existing Generator Control System, this equipment is now obsolete and no longer supported by the manufacturer.

**Project Purpose:** To increase the reliability of the existing electrical system at the High Service Pump Station by furnishing flexibility of the power sources available to the operators. Proper selection of power source connections to loads during inclement weather may reduce the flow interruptions and/or hydraulic surges.

**Other Information:**

**Program/Source:** Reliability



Project Schedule		
Project Stage	Start Date	End Date
Requirements	1/6/2015	6/24/2015
Professional Services	8/24/2015	10/26/2015
Design, Phase 1	10/1/2015	5/12/2016
Design, Phase 2	10/27/2015	4/19/2016
Construction/Procure	4/20/2016	7/14/2016
Construction, Phase 1	5/13/2016	7/26/2017
Construction, Phase 2	7/15/2016	6/2/2017
Additional Information		
Annual Maintenance Costs Net Change Upon Completion		\$0
Annual Operating Cost Net Change Upon Completion		\$0
Date First in CIP		3/31/2015
Initial Cost Estimate as of Date First in CIP		\$0
Funding Sources		Funding Needed
2013 Bond		\$1,147,000
Capital Improvement Fund		\$1,808,000
<b>TOTALS</b>		<b>\$2,955,000</b>

### Expenditure Plan

Cost Element	Thru FY2014 (actual)	FY2015 Revised	FY2016 Budgeted	FY2017 Budgeted	FY2018 Budgeted	FY2019 Budgeted	FY2020 Budgeted	Future Budgeted	TOTALS
Engineering (Concept/Planning)	\$0	\$0	\$299,000	\$0	\$0	\$0	\$0	\$0	\$299,000
Engineering (Construction)	\$0	\$0	\$38,022	\$120,978	\$0	\$0	\$0	\$0	\$159,000
Legal	\$0	\$0	\$40,000	\$0	\$0	\$0	\$0	\$0	\$40,000
Construction	\$0	\$0	\$561,299	\$1,485,701	\$0	\$0	\$0	\$0	\$2,047,000
Contingency	\$0	\$0	\$112,403	\$297,597	\$0	\$0	\$0	\$0	\$410,000
<b>TOTALS</b>	<b>\$0</b>	<b>\$0</b>	<b>\$1,050,723</b>	<b>\$1,904,277</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$2,955,000</b>



# 09007 - Master Water Plan

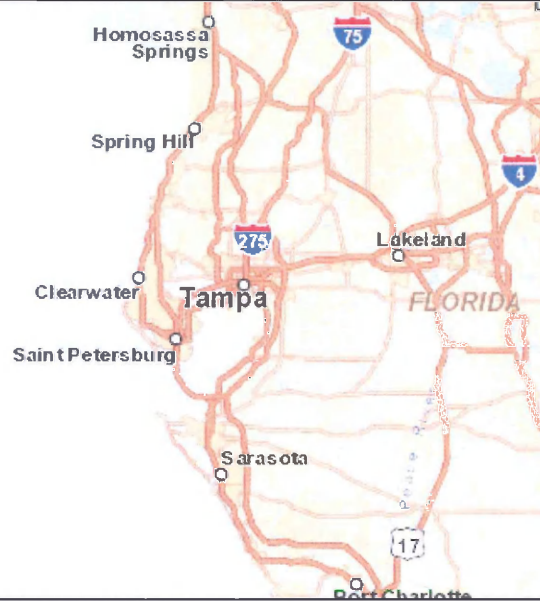
**Project Description:** The Long-Term Master Water Plan is a comprehensive assessment of agency's existing facilities, infrastructure analysis, demand management and forecast, regulatory requirements, and multiple sources of supply and potential new water supply projects that will meet member governments' drinking water demands through the 20-year planning horizon. Tampa Bay Water is required to update the Plan every five years and present it to the Board for approval and adoption.

**Project Purpose:** Tampa Bay Water's Interlocal Agreement requires that the agency updates its Long-Term Master Water Plan every five years. The purpose of the Long-Term Master Water Plan is to ensure that the agency can meet its member governments' demands for high quality drinking water over the 20 year planning horizon.

**Other Information:**

**Program/Source:** Master Water Plan

### General Project Location



### Project Schedule

Project Stage	Start Date	End Date
Planning, Phase 1	8/6/2014	9/30/2018
Planning, Phase 2	10/1/2018	12/31/2018

### Additional Information

Annual Maintenance Costs Net Change Upon Completion	\$0
Annual Operating Cost Net Change Upon Completion	\$0
Date First in CIP	2/9/2015
Initial Cost Estimate as of Date First in CIP	\$0

Funding Sources	Funding Needed
2013 Bond	\$1,970,197
Not Yet Determined (Revenue)	\$119,563
Uniform Rate	\$1,490,240
<b>TOTALS</b>	<b>\$3,580,000</b>

### Expenditure Plan

Cost Element	Thru FY2014 (actual)	FY2015 Revised	FY2016 Budgeted	FY2017 Budgeted	FY2018 Budgeted	FY2019 Budgeted	FY2020 Budgeted	Future Budgeted	TOTALS
Engineering (Concept/Planning)	\$0	\$958,696	\$835,435	\$833,153	\$833,153	\$119,563	\$0	\$0	\$3,580,000
<b>TOTALS</b>	<b>\$0</b>	<b>\$958,696</b>	<b>\$835,435</b>	<b>\$833,153</b>	<b>\$833,153</b>	<b>\$119,563</b>	<b>\$0</b>	<b>\$0</b>	<b>\$3,580,000</b>



## 50016 - Eldridge-Wilde WF Pumps & Motors Replacement

**Project Description:** Replacement of the pumps and motors at wells at the Eldridge-Wilde Wellfield. Project currently on-hold until the Systems 2035 Analysis is completed to determine the number of wells to be included in the project.

**Project Purpose:** Maintain the existing level of service at the Wellfield

**Other Information:** This is a Renewal and Replacement (R&R) Program Project and has a high priority as indicated by the Replacement Planning Model of the R&R Program.

**Program/Source:** Reliability; Energy Management Program; Renewal and Replacement Program

General Project Location		Project Schedule		
	<b>Project Stage</b>	<b>Start Date</b>	<b>End Date</b>	
	Professional Services	1/4/2016	6/21/2016	
	Design	6/22/2016	11/20/2017	
	Construction/Procure	11/21/2017	5/14/2018	
	Const	5/15/2018	10/15/2019	
<b>Additional Information</b>				
Annual Maintenance Costs Net Change Upon Completion			\$0	
Annual Operating Cost Net Change Upon Completion			\$0	
Date First in CIP			1/29/2013	
Initial Cost Estimate as of Date First in CIP			\$345,000	
<b>Funding Sources</b>		<b>Funding Needed</b>		
2013 Bond		\$5,248,791		
Not Yet Determined (Revenue)		\$9,714,209		
<b>TOTALS</b>		<b>\$14,963,000</b>		

### Expenditure Plan

Cost Element	Thru FY2014 (actual)	FY2015 Revised	FY2016 Budgeted	FY2017 Budgeted	FY2018 Budgeted	FY2019 Budgeted	FY2020 Budgeted	Future Budgeted	TOTALS
Engineering (Concept/Planning)	\$0	\$0	\$311,240	\$1,136,027	\$258,733	\$0	\$0	\$0	\$1,706,000
Engineering (Construction)	\$0	\$0	\$0	\$0	\$349,795	\$925,183	\$38,021	\$0	\$1,313,000
Legal	\$0	\$0	\$2,907	\$10,610	\$1,483	\$0	\$0	\$0	\$15,000
Construction	\$0	\$0	\$0	\$0	\$2,118,486	\$5,603,243	\$230,270	\$0	\$7,952,000
Contingency	\$0	\$0	\$0	\$0	\$1,059,510	\$2,802,326	\$115,164	\$0	\$3,977,000
<b>TOTALS</b>	<b>\$0</b>	<b>\$0</b>	<b>\$314,147</b>	<b>\$1,146,638</b>	<b>\$3,788,007</b>	<b>\$9,330,753</b>	<b>\$383,456</b>	<b>\$0</b>	<b>\$14,963,000</b>



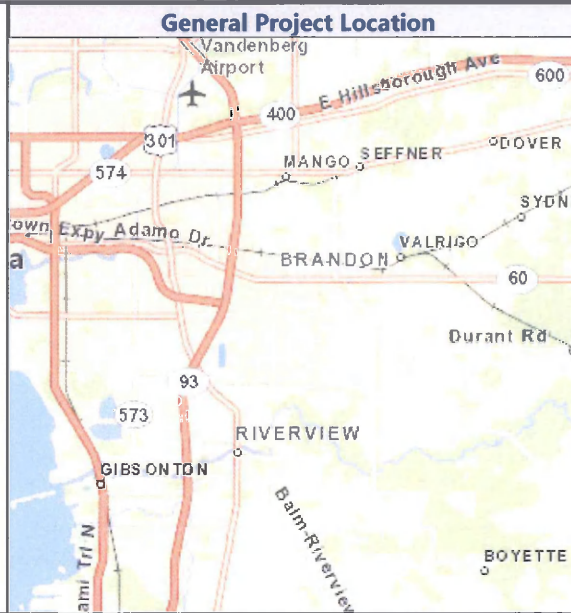
## 50036 - Medium Voltage Variable Frequency Drive Upgrade - Repump Station

**Project Description:** The repair of four VFDs' internal components is the cost effective alternative to these 8 year old VFDs to continue to operate properly for their remaining expected life.

**Project Purpose:**

**Other Information:**

**Program/Source:** Renewal and Replacement Program



Project Schedule		
Project Stage	Start Date	End Date
Design	11/2/2015	12/16/2015
Construction/Procure	12/17/2015	1/15/2016
Const	1/19/2016	11/10/2016
Additional Information		
Annual Maintenance Costs Net Change Upon Completion	\$0	
Annual Operating Cost Net Change Upon Completion	\$0	
Date First in CIP	3/26/2014	
Initial Cost Estimate as of Date First in CIP	\$0	
Funding Sources		Funding Needed
2013 Bond		\$765,612
<b>TOTALS</b>		<b>\$765,612</b>

### Expenditure Plan

Cost Element	Thru FY2014 (actual)	FY2015 Revised	FY2016 Budgeted	FY2017 Budgeted	FY2018 Budgeted	FY2019 Budgeted	FY2020 Budgeted	Future Budgeted	TOTALS
Construction	\$0	\$0	\$607,875	\$97,737	\$0	\$0	\$0	\$0	\$705,612
Contingency	\$0	\$0	\$51,689	\$8,311	\$0	\$0	\$0	\$0	\$60,000
<b>TOTALS</b>	<b>\$0</b>	<b>\$0</b>	<b>\$659,564</b>	<b>\$106,048</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$765,612</b>



## 50040 - Eldridge Wilde WF Underground Powerline

**Project Description:** This project will include installation of approximately 55,000 LF of new underground power line in conduit, configured for radial (non-loop) feed; 55,000 feet of spare conduit parallel to the power line; and demolition of the existing overhead system. Using a radial feed will save capital cost; in the rare event underground power is interrupted, Tampa Bay Water can rely on other larger, centralized agency water supply facilities (Cypress Creek, Cross Bar, Morris Bridge and Cypress Bridge WFs), all of which are fed by a different commercial power supplier than that feeding Eldridge Wilde, to provide groundwater service, or use the existing alternative water supply available from the surface water system.

**Project Purpose:**

**Other Information:**

**Program/Source:** Reliability; Renewal and Replacement Program; Joint Project Agreement

General Project Location		Project Schedule	
	<b>Project Stage</b>	<b>Start Date</b>	<b>End Date</b>
	Professional Services	9/14/2015	6/8/2016
	Design	6/9/2016	2/5/2018
	Construction/Procure	2/6/2018	9/14/2018
	Const	10/1/2018	3/18/2021
<b>Additional Information</b>			
Annual Maintenance Costs Net Change Upon Completion		\$0	
Annual Operating Cost Net Change Upon Completion		\$0	
Date First in CIP		1/20/2015	
Initial Cost Estimate as of Date First in CIP		\$4,594,000	
<b>Funding Sources</b>		<b>Funding Needed</b>	
2013 Bond		\$466,000	
Not Yet Determined (Revenue)		\$4,361,000	
<b>TOTALS</b>		<b>\$4,827,000</b>	

### Expenditure Plan

Cost Element	Thru FY2014 (actual)	FY2015 Revised	FY2016 Budgeted	FY2017 Budgeted	FY2018 Budgeted	FY2019 Budgeted	FY2020 Budgeted	Future Budgeted	TOTALS
Engineering (Concept/Planning)	\$0	\$0	\$79,249	\$255,982	\$115,769	\$0	\$0	\$0	\$451,000
Engineering (Construction)	\$0	\$0	\$0	\$0	\$0	\$94,340	\$94,859	\$43,801	\$233,000
Legal	\$0	\$0	\$2,797	\$9,035	\$3,168	\$0	\$0	\$0	\$15,000
Construction	\$0	\$0	\$0	\$0	\$0	\$1,285,540	\$1,292,603	\$596,858	\$3,175,000
Contingency	\$0	\$0	\$0	\$0	\$0	\$385,864	\$387,984	\$179,151	\$953,000
<b>TOTALS</b>	<b>\$0</b>	<b>\$0</b>	<b>\$82,046</b>	<b>\$265,016</b>	<b>\$118,937</b>	<b>\$1,765,744</b>	<b>\$1,775,446</b>	<b>\$819,810</b>	<b>\$4,827,000</b>



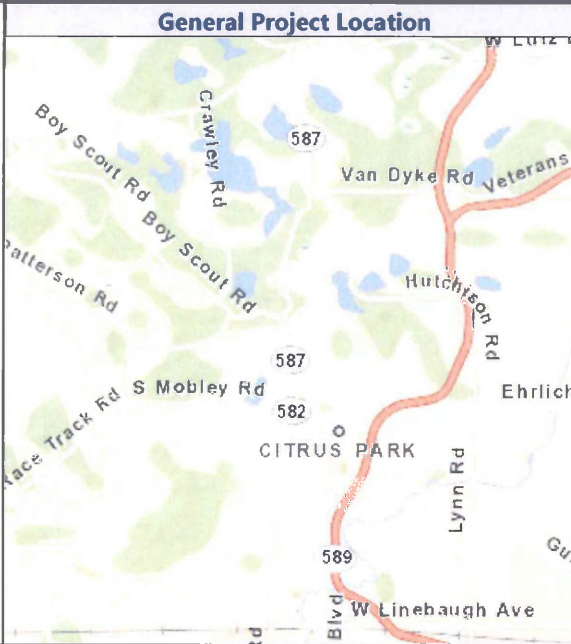
## 09005 - Cosme Bypass Analyzer Enclosure

**Project Description:** This project will require a Hillsborough County site development permit and close coordination with the City of St Petersburg. An as-needed engineer will design the permanent facility and obtain the permit. The new enclosure will be purchased directly from an approved manufacturer. An as-needed engineer will perform the installation of the new enclosure and modify the piping tee. Tampa Bay Water staff will remove, and re-install the analyzer equipment.

**Project Purpose:** Replace temporary analyzers and enclosure installed in 2011 and the influent analyzer building. Temporary enclosure is made of wood and was not intended to be permanent. Modify tee at east end of facility to direct flushing water away from the enclosure area.

**Other Information:**

**Program/Source:** Renewal and Replacement Program



Project Schedule		
Project Stage	Start Date	End Date
Design	12/17/2013	5/5/2015
Construction/Procure	5/5/2015	9/24/2015
Const	9/24/2015	4/29/2016
Additional Information		
Annual Maintenance Costs Net Change Upon Completion	\$0	
Annual Operating Cost Net Change Upon Completion	\$0	
Date First in CIP	3/29/2014	
Initial Cost Estimate as of Date First in CIP	\$232,000	
Funding Sources	Funding Needed	
R&R	\$162,000	
Uniform Rate	\$70,000	
<b>TOTALS</b>	<b>\$232,000</b>	

### Expenditure Plan

Cost Element	Thru FY2014 (actual)	FY2015 Revised	FY2016 Budgeted	FY2017 Budgeted	FY2018 Budgeted	FY2019 Budgeted	FY2020 Budgeted	Future Budgeted	TOTALS
Engineering (Concept/Planning)	\$45,924	\$4,516	\$0	\$0	\$0	\$0	\$0	\$0	\$50,439
Engineering (Construction)	\$0	\$9,836	\$9,725	\$0	\$0	\$0	\$0	\$0	\$19,561
Construction	\$0	\$3,413	\$120,587	\$0	\$0	\$0	\$0	\$0	\$124,000
Contingency	\$0	\$1,046	\$36,954	\$0	\$0	\$0	\$0	\$0	\$38,000
<b>TOTALS</b>	<b>\$45,924</b>	<b>\$18,810</b>	<b>\$167,266</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$232,000</b>





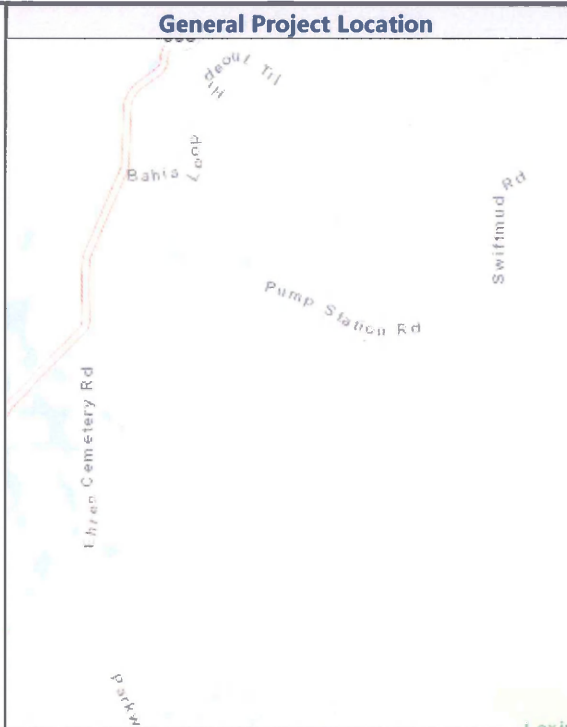
# 11004 - Cypress Creek Crossing Wellfield Collection Main Replacement

**Project Description:** Pipeline condition assessment, design and replacement of a 150-foot section of the 48-inch Prestressed Concrete Cylinder Pipe (PCCP) Cypress Creek Wellfield Collection Main at the Cypress Creek crossing.

**Project Purpose:**

**Other Information:** This is a Renewal and Replacement (R&R) Program Project.

**Program/Source:** Reliability; Renewal and Replacement Program



Project Schedule		
Project Stage	Start Date	End Date
Test	5/1/2014	9/30/2014
Professional Services	5/9/2016	9/15/2016
Design	9/16/2016	9/13/2017
Construction/Procure	9/14/2017	12/1/2017
Const	12/4/2017	12/19/2018
Additional Information		
Annual Maintenance Costs Net Change Upon Completion	(\$3,744)	
Annual Operating Cost Net Change Upon Completion	\$0	
Date First in CIP	12/18/2012	
Initial Cost Estimate as of Date First in CIP	\$2,129,000	
Funding Sources		Funding Needed
R&R		\$1,793,457
Uniform Rate		\$335,543
<b>TOTALS</b>		<b>\$2,129,000</b>

## Expenditure Plan

Cost Element	Thru FY2014 (actual)	FY2015 Revised	FY2016 Budgeted	FY2017 Budgeted	FY2018 Budgeted	FY2019 Budgeted	FY2020 Budgeted	Future Budgeted	TOTALS
Engineering (Concept/Planning)	\$317,347	\$18,196	\$5,492	\$140,611	\$15,897	\$0	\$0	\$0	\$497,543
Engineering (Construction)	\$0	\$0	\$0	\$0	\$103,421	\$27,579	\$0	\$0	\$131,000
Legal	\$0	\$0	\$0	\$0	\$1,579	\$421	\$0	\$0	\$2,000
Construction	\$0	\$0	\$0	\$0	\$700,624	\$186,833	\$0	\$0	\$887,457
Contingency	\$0	\$0	\$425	\$10,575	\$473,684	\$126,316	\$0	\$0	\$611,000
<b>TOTALS</b>	<b>\$317,347</b>	<b>\$18,196</b>	<b>\$5,917</b>	<b>\$151,185</b>	<b>\$1,295,206</b>	<b>\$341,149</b>	<b>\$0</b>	<b>\$0</b>	<b>\$2,129,000</b>



## 50010 - HSPS Improvements Pumps 1-5

**Project Description:** This is a Renewal and Replacement (R&R) Program Project. Significant damage on Pumps 1 and 3 impellers, bearings and casing has taken place and the impellers need to be replaced and the casings and bearings repaired. The motor for pump 3 needs to be evaluated for its magnetic center. The run times for pumps 2 and 4 are similar to pumps 1 and 3, and it is anticipated when inspected, will require similar replacements/repair. Pump 5 has been added to the project. As a result of this project pumps 1-5 will have "to spec" restored rotating assemblies for increased reliability; and new Belzona coatings which will increase their efficiency by approximately 3-4%. A 3-5 % energy savings can result in approximately \$50,000 per year reduced operating costs based on the FY 2014 budget of \$1.97 million for power and light at the HSPS.

**Project Purpose:**

**Other Information:**

**Program/Source:** Energy Management Program; Renewal and Replacement Program



Project Schedule		
Project Stage	Start Date	End Date
Const	3/21/2013	11/2/2015
Additional Information		
Annual Maintenance Costs Net Change Upon Completion		\$0
Annual Operating Cost Net Change Upon Completion		\$0
Date First in CIP		6/27/2013
Initial Cost Estimate as of Date First in CIP		\$400,000
Funding Sources		Funding Needed
R&R		\$774,000
<b>TOTALS</b>		<b>\$774,000</b>

### Expenditure Plan

Cost Element	Thru FY2014 (actual)	FY2015 Revised	FY2016 Budgeted	FY2017 Budgeted	FY2018 Budgeted	FY2019 Budgeted	FY2020 Budgeted	Future Budgeted	TOTALS
Contingency	\$227,265	\$520,017	\$26,718	\$0	\$0	\$0	\$0	\$0	\$774,000
<b>TOTALS</b>	<b>\$227,265</b>	<b>\$520,017</b>	<b>\$26,718</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$774,000</b>



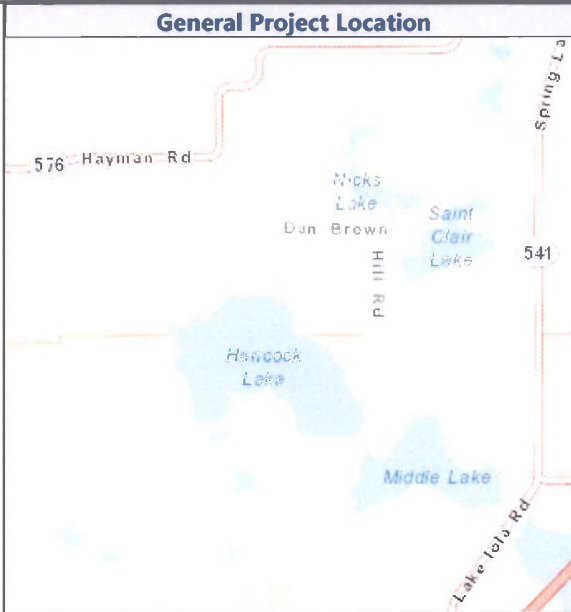
## 50013 - Cypress Creek WF MCCs Replacement & Arc Flash Mitigation

**Project Description:** This Renewal and Replacement Project includes the replacement of two Benshaw motor starters in wells 1 and 4 and two motor controllers in wells 3 and 7. All four well motor control equipment will include new soft starters and overcurrent protection devices selected to minimize short circuits, and AF hazards. At wells 1 and 4 new manual transfer switches shall be installed and connected to existing generator receptacle. The project also includes the replacement of existing electrical over-current protection (OCP) devices with new OCP equipment that operates quicker in a short circuit condition, thereby reducing the incident energy created during a short circuit condition. This will reduce the Arc Flash Hazard to a more safer and manageable situation for personnel.

**Project Purpose:**

**Other Information:** This is a Renewal and Replacement (R&R) Program Project and has a high priority as indicated by the Replacement Planning Model of the R&R Program.

**Program/Source:** Renewal and Replacement Program



Project Schedule		
Project Stage	Start Date	End Date
Design	11/14/2014	12/30/2014
Construction/Procure	1/30/2015	5/21/2015
Const	5/22/2015	4/18/2016
Additional Information		
Annual Maintenance Costs Net Change Upon Completion	\$0	
Annual Operating Cost Net Change Upon Completion	\$0	
Date First in CIP	1/28/2013	
Initial Cost Estimate as of Date First in CIP	\$143,000	
Funding Sources	Funding Needed	
R&R	\$665,664	
<b>TOTALS</b>	<b>\$665,664</b>	

### Expenditure Plan

Cost Element	Thru FY2014 (actual)	FY2015 Revised	FY2016 Budgeted	FY2017 Budgeted	FY2018 Budgeted	FY2019 Budgeted	FY2020 Budgeted	Future Budgeted	TOTALS
Engineering (Concept/Planning)	\$1,285	\$4,945	\$0	\$0	\$0	\$0	\$0	\$0	\$6,230
Engineering (Construction)	\$0	\$27,924	\$42,846	\$0	\$0	\$0	\$0	\$0	\$70,770
Construction	\$0	\$220,437	\$338,227	\$0	\$0	\$0	\$0	\$0	\$558,664
Contingency	\$0	\$11,837	\$18,163	\$0	\$0	\$0	\$0	\$0	\$30,000
<b>TOTALS</b>	<b>\$1,285</b>	<b>\$265,143</b>	<b>\$399,236</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$665,664</b>



## 50020 - Alafia River Pump Station Pumps 1, 2, and 3

**Project Description:** Replacement of Pumps 1, 2, and 3 at the Alafia Pump Station

**Project Purpose:** Maintain the existing level of service at the Pump Station

**Other Information:** This is a Renewal and Replacement (R&R) Program Project and has a high priority as indicated by the Replacement Planning Model of the R&R Program.

**Program/Source:** Renewal and Replacement Program

General Project Location	Project Schedule		
	Project Stage	Start Date	End Date
	Professional Services	8/1/2014	9/4/2014
	Design	9/5/2014	8/14/2015
	Construction/Procure	8/17/2015	10/19/2015
	Const	11/2/2015	2/20/2017
	Additional Information		
Annual Maintenance Costs Net Change Upon Completion		(\$27,725)	
Annual Operating Cost Net Change Upon Completion		(\$2,850)	
Date First in CIP		1/29/2013	
Initial Cost Estimate as of Date First in CIP		\$1,761,000	
Funding Sources		Funding Needed	
R&R		\$1,761,000	
<b>TOTALS</b>		<b>\$1,761,000</b>	

### Expenditure Plan

Cost Element	Thru FY2014 (actual)	FY2015 Revised	FY2016 Budgeted	FY2017 Budgeted	FY2018 Budgeted	FY2019 Budgeted	FY2020 Budgeted	Future Budgeted	TOTALS
Engineering (Concept/Planning)	\$0	\$311,873	\$5,127	\$0	\$0	\$0	\$0	\$0	\$317,000
Engineering (Construction)	\$0	\$0	\$69,958	\$30,042	\$0	\$0	\$0	\$0	\$100,000
Construction	\$0	\$0	\$752,048	\$322,952	\$0	\$0	\$0	\$0	\$1,075,000
Contingency	\$0	\$0	\$188,187	\$80,813	\$0	\$0	\$0	\$0	\$269,000
<b>TOTALS</b>	<b>\$0</b>	<b>\$311,873</b>	<b>\$1,015,320</b>	<b>\$433,807</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$1,761,000</b>



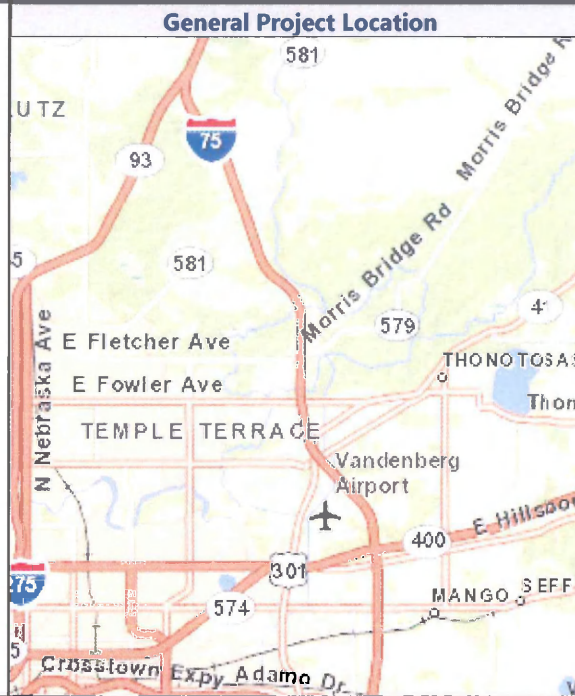
## 50021 - Morris Bridge WF MCCs and Transformers Replacement

**Project Description:** Replacement of main disconnect switch, ancillary power equipment and associated load panels and step down transformers in wells 150-169 and the replacement of 17 service pad mounted transformers at wells 150-154, 157-167 and 169. Also, the project includes the replacement of sections of existing underground 15kv cable with new. Field test shall be performed to confirm condition of the existing cable before determination of existing cable replacement.

**Project Purpose:**

**Other Information:** This is a Renewal and Replacement (R&R) Program Project and has a high priority as indicated by the Replacement Planning Model of the R&R Program.

**Program/Source:** Renewal and Replacement Program



Project Schedule		
Project Stage	Start Date	End Date
Requirements	4/1/2014	9/30/2015
Professional Services	10/1/2015	11/12/2015
Design	11/13/2015	8/11/2016
Construction/Procure	8/12/2016	12/21/2016
Const	12/22/2016	12/7/2017
Additional Information		
Annual Maintenance Costs Net Change Upon Completion	\$0	
Annual Operating Cost Net Change Upon Completion	\$0	
Date First in CIP	1/28/2013	
Initial Cost Estimate as of Date First in CIP	\$836,000	
Funding Sources		Funding Needed
R&R		\$1,590,000
<b>TOTALS</b>		<b>\$1,590,000</b>

### Expenditure Plan

Cost Element	Thru FY2014 (actual)	FY2015 Revised	FY2016 Budgeted	FY2017 Budgeted	FY2018 Budgeted	FY2019 Budgeted	FY2020 Budgeted	Future Budgeted	TOTALS
Engineering (Concept/Planning)	\$83,152	\$9,849	\$71,115	\$6,885	\$0	\$0	\$0	\$0	\$171,000
Engineering (Construction)	\$0	\$0	\$0	\$91,851	\$22,149	\$0	\$0	\$0	\$114,000
Construction	\$0	\$0	\$0	\$913,680	\$220,320	\$0	\$0	\$0	\$1,134,000
Contingency	\$0	\$0	\$0	\$137,777	\$33,223	\$0	\$0	\$0	\$171,000
<b>TOTALS</b>	<b>\$83,152</b>	<b>\$9,849</b>	<b>\$71,115</b>	<b>\$1,150,194</b>	<b>\$275,691</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$1,590,000</b>



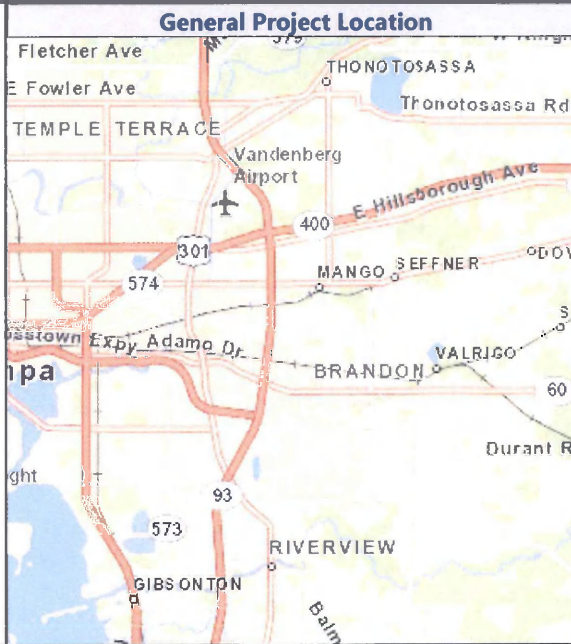
## 50028 - Facilities Site-SWTP Process Water Piping Repairs

**Project Description:** The project will complete the repair of the above and below-ground 36-inch piping and concrete pipe supports that were damaged when the piping moved during a surge event in October 2013. temporary repairs addressed the cracked pipe. Permanent repairs will address the remaining torque that was imparted to the rest of the piping when the surge occurred. Project will include new restrained piping, new gate valve with bypass, air release/air vacuum valve and globe-type surge anticipator valve. Depending on time of year project may also include temporary booster pumping to meet SWTP process water requirements.

**Project Purpose:** Complete the temporary repairs to 36-inch process water piping that was damaged by surge October 2013.

**Other Information:**

**Program/Source:** Renewal and Replacement Program



Project Schedule		
Project Stage	Start Date	End Date
Design	1/31/2014	9/8/2014
Construction/Procure	1/14/2015	4/14/2015
Const	4/15/2015	6/20/2016
Additional Information		
Annual Maintenance Costs Net Change Upon Completion		\$0
Annual Operating Cost Net Change Upon Completion		\$0
Date First in CIP		3/28/2014
Initial Cost Estimate as of Date First in CIP		\$483,502
Funding Sources		Funding Needed
R&R		\$501,000
Uniform Rate		\$93,000
<b>TOTALS</b>		<b>\$594,000</b>

### Expenditure Plan

Cost Element	Thru FY2014 (actual)	FY2015 Revised	FY2016 Budgeted	FY2017 Budgeted	FY2018 Budgeted	FY2019 Budgeted	FY2020 Budgeted	Future Budgeted	TOTALS
Engineering (Concept/Planning)	\$0	\$59,000	\$0	\$0	\$0	\$0	\$0	\$0	\$59,000
Engineering (Construction)	\$0	\$13,222	\$20,778	\$0	\$0	\$0	\$0	\$0	\$34,000
Construction	\$0	\$161,778	\$254,222	\$0	\$0	\$0	\$0	\$0	\$416,000
Contingency	\$0	\$33,056	\$51,944	\$0	\$0	\$0	\$0	\$0	\$85,000
<b>TOTALS</b>	<b>\$0</b>	<b>\$267,056</b>	<b>\$326,944</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$594,000</b>



## 50029 - BUD Well Fields Arc Flash Mitigation and VFDs Replacement

**Project Description:** Replacement of existing electrical over-current protection (OCP) devices with new OCP equipment that operates quicker in a short circuit condition, thereby reducing the incident energy created during a short circuit condition. This will reduce the Arc Flash Hazard to a more safer and manageable situation for personnel.

**Project Purpose:** Replacement of existing electrical equipment with newer and safer equipment. The new electrical equipment will reduce the electrical hazard present to maintenance personnel.

**Other Information:**

**Program/Source:** Renewal and Replacement Program



Project Schedule		
Project Stage	Start Date	End Date
Requirements	8/1/2014	6/22/2015
Design	6/23/2015	9/9/2015
Construction/Procure	9/10/2015	1/6/2016
Const	1/7/2016	7/1/2016
Additional Information		
Annual Maintenance Costs Net Change Upon Completion		\$0
Annual Operating Cost Net Change Upon Completion		\$0
Date First in CIP		3/28/2014
Initial Cost Estimate as of Date First in CIP		\$139
Funding Sources		Funding Needed
R&R		\$698,000
<b>TOTALS</b>		<b>\$698,000</b>

### Expenditure Plan

Cost Element	Thru FY2014 (actual)	FY2015 Revised	FY2016 Budgeted	FY2017 Budgeted	FY2018 Budgeted	FY2019 Budgeted	FY2020 Budgeted	Future Budgeted	TOTALS
Engineering (Concept/Planning)	\$1,285	\$5,715	\$0	\$0	\$0	\$0	\$0	\$0	\$7,000
Engineering (Construction)	\$0	\$0	\$50,000	\$0	\$0	\$0	\$0	\$0	\$50,000
Construction	\$0	\$0	\$576,000	\$0	\$0	\$0	\$0	\$0	\$576,000
Contingency	\$0	\$0	\$65,000	\$0	\$0	\$0	\$0	\$0	\$65,000
<b>TOTALS</b>	<b>\$1,285</b>	<b>\$5,715</b>	<b>\$691,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$698,000</b>



## 50030 - South Central Hillsborough Arc Flash Mitigation

**Project Description:** Replacement of existing electrical over-current protection (OCP) devices with new OCP equipment that operates quicker in a short circuit condition, thereby reducing the incident energy created during a short circuit condition. This will reduce the Arc Flash Hazard to a more safer and manageable situation

**Project Purpose:** Replacement of existing electrical equipment with newer and safer equipment. The new electrical equipment will reduce the electrical hazard present to maintenance personnel.

**Other Information:**

**Program/Source:** Renewal and Replacement Program

General Project Location		Project Schedule		
		Project Stage	Start Date	End Date
		Requirements	8/1/2014	9/5/2014
		Design	9/5/2014	3/23/2015
		Construction/Procure	3/31/2015	6/24/2015
		Const	5/4/2015	8/29/2016
Additional Information				
Annual Maintenance Costs Net Change Upon Completion			\$0	
Annual Operating Cost Net Change Upon Completion			\$0	
Date First in CIP			3/26/2014	
Initial Cost Estimate as of Date First in CIP			\$694,000	
Funding Sources		Funding Needed		
R&R		\$889,000		
<b>TOTALS</b>		<b>\$889,000</b>		

### Expenditure Plan

Cost Element	Thru FY2014 (actual)	FY2015 Revised	FY2016 Budgeted	FY2017 Budgeted	FY2018 Budgeted	FY2019 Budgeted	FY2020 Budgeted	Future Budgeted	TOTALS
Engineering (Concept/Planning)	\$1,285	\$15,715	\$0	\$0	\$0	\$0	\$0	\$0	\$17,000
Engineering (Construction)	\$0	\$23,137	\$51,863	\$0	\$0	\$0	\$0	\$0	\$75,000
Construction	\$0	\$204,836	\$459,164	\$0	\$0	\$0	\$0	\$0	\$664,000
Contingency	\$0	\$41,029	\$91,971	\$0	\$0	\$0	\$0	\$0	\$133,000
<b>TOTALS</b>	<b>\$1,285</b>	<b>\$284,717</b>	<b>\$602,998</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$889,000</b>





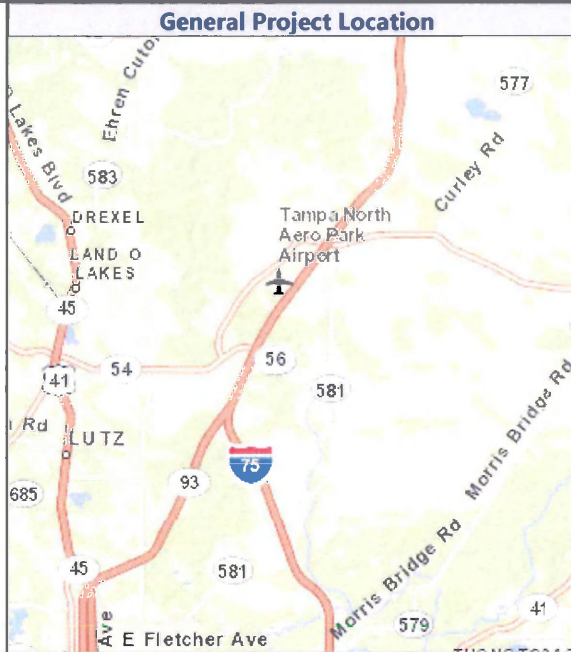
## 50031 - Cypress Bridge WF Arc Flash Mitigation

**Project Description:** Replacement of existing electrical over-current protection (OCP) devices with new OCP equipment that operates quicker in a short circuit condition, thereby reducing the incident energy created during a short circuit condition. This will reduce the Arc Flash Hazard to a more safer and manageable situation for personnel.

**Project Purpose:** Replacement of existing electrical equipment with newer and safer equipment. The new electrical equipment will reduce the electrical hazard present to maintenance personnel.

**Other Information:**

**Program/Source:** Renewal and Replacement Program



Project Schedule		
Project Stage	Start Date	End Date
Requirements	8/1/2014	6/17/2016
Design	6/20/2016	9/14/2016
Construction/Procure	9/15/2016	12/6/2016
Const	12/7/2016	10/2/2017
Additional Information		
Annual Maintenance Costs Net Change Upon Completion		\$0
Annual Operating Cost Net Change Upon Completion		\$0
Date First in CIP		3/28/2014
Initial Cost Estimate as of Date First in CIP		\$229,000
Funding Sources		Funding Needed
R&R		\$1,488,000
<b>TOTALS</b>		<b>\$1,488,000</b>

### Expenditure Plan

Cost Element	Thru FY2014 (actual)	FY2015 Revised	FY2016 Budgeted	FY2017 Budgeted	FY2018 Budgeted	FY2019 Budgeted	FY2020 Budgeted	Future Budgeted	TOTALS
Engineering (Concept/Planning)	\$1,285	\$3,052	\$2,663	\$0	\$0	\$0	\$0	\$0	\$7,000
Engineering (Construction)	\$0	\$0	\$0	\$99,331	\$669	\$0	\$0	\$0	\$100,000
Construction	\$0	\$0	\$0	\$1,204,886	\$8,114	\$0	\$0	\$0	\$1,213,000
Contingency	\$0	\$0	\$0	\$166,876	\$1,124	\$0	\$0	\$0	\$168,000
<b>TOTALS</b>	<b>\$1,285</b>	<b>\$3,052</b>	<b>\$2,663</b>	<b>\$1,471,094</b>	<b>\$9,906</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$1,488,000</b>



## 50032 - South Pasco WF Arc Flash Mitigation

**Project Description:** Replacement of existing electrical over-current protection (OCP) devices with new OCP equipment that operates quicker in a short circuit condition, thereby reducing the incident energy created during a short circuit condition. This will reduce the Arc Flash Hazard to a more safer and manageable situation for personnel.

**Project Purpose:** Replacement of existing electrical equipment with newer and safer equipment. The new electrical equipment will reduce the electrical hazard present to maintenance personnel.

**Other Information:**

**Program/Source:** Renewal and Replacement Program

General Project Location		Project Schedule		
		Project Stage	Start Date	End Date
		Design	9/1/2014	12/11/2014
		Construction/Procure	12/9/2014	1/16/2015
		Const	2/3/2015	10/14/2015
<b>Additional Information</b>				
Annual Maintenance Costs Net Change Upon Completion			\$0	
Annual Operating Cost Net Change Upon Completion			\$0	
Date First in CIP			3/26/2014	
Initial Cost Estimate as of Date First in CIP			\$151,000	
<b>Funding Sources</b>			<b>Funding Needed</b>	
R&R			\$151,000	
<b>TOTALS</b>			<b>\$151,000</b>	

### Expenditure Plan

Cost Element	Thru FY2014 (actual)	FY2015 Revised	FY2016 Budgeted	FY2017 Budgeted	FY2018 Budgeted	FY2019 Budgeted	FY2020 Budgeted	Future Budgeted	TOTALS
Engineering (Concept/Planning)	\$1,285	\$4,945	\$0	\$0	\$0	\$0	\$0	\$0	\$6,230
Engineering (Construction)	\$0	\$46,600	\$2,730	\$0	\$0	\$0	\$0	\$0	\$49,330
Construction	\$0	\$59,929	\$3,511	\$0	\$0	\$0	\$0	\$0	\$63,440
Contingency	\$0	\$30,229	\$1,771	\$0	\$0	\$0	\$0	\$0	\$32,000
<b>TOTALS</b>	<b>\$1,285</b>	<b>\$141,704</b>	<b>\$8,011</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$151,000</b>



## 50035 - Medium Voltage Variable Frequency Drive Upgrade - CCPS

**Project Description:** The project includes the repair of one existing VFD (#1) and replacement of another existing VFD (#5). The unit to be repaired, VFD (#1), shall have internal components repaired as this is the cost effective alternative for this VFD that is less than 10 years old. The VFD (#5) to be replaced is over 17 years old and the cost effective alternative is to replace the unit since it is close to its life expectancy of 20 years.

**Project Purpose:**

**Other Information:**

**Program/Source:** Renewal and Replacement Program

General Project Location		Project Schedule		
		Project Stage	Start Date	End Date
		Design, Phase 1	4/1/2015	6/10/2015
		Construction, Phase 1	6/11/2015	12/1/2015
		Professional Services	9/1/2015	10/13/2015
		Design, Phase 2	10/14/2015	1/12/2016
		Construction/Procure	1/13/2016	3/16/2016
		Construction, Phase 2	3/17/2016	9/2/2016
Additional Information				
Annual Maintenance Costs Net Change Upon Completion			\$0	
Annual Operating Cost Net Change Upon Completion			\$0	
Date First in CIP			3/28/2014	
Initial Cost Estimate as of Date First in CIP			\$736,000	
Funding Sources		Funding Needed		
R&R		\$870,000		
<b>TOTALS</b>		<b>\$870,000</b>		

### Expenditure Plan

Cost Element	Thru FY2014 (actual)	FY2015 Revised	FY2016 Budgeted	FY2017 Budgeted	FY2018 Budgeted	FY2019 Budgeted	FY2020 Budgeted	Future Budgeted	TOTALS
Engineering (Concept/Planning)	\$0	\$0	\$34,000	\$0	\$0	\$0	\$0	\$0	\$34,000
Engineering (Construction)	\$0	\$0	\$17,000	\$0	\$0	\$0	\$0	\$0	\$17,000
Construction	\$0	\$160,405	\$551,595	\$0	\$0	\$0	\$0	\$0	\$712,000
Contingency	\$0	\$32,081	\$74,919	\$0	\$0	\$0	\$0	\$0	\$107,000
<b>TOTALS</b>	<b>\$0</b>	<b>\$192,486</b>	<b>\$677,514</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$870,000</b>



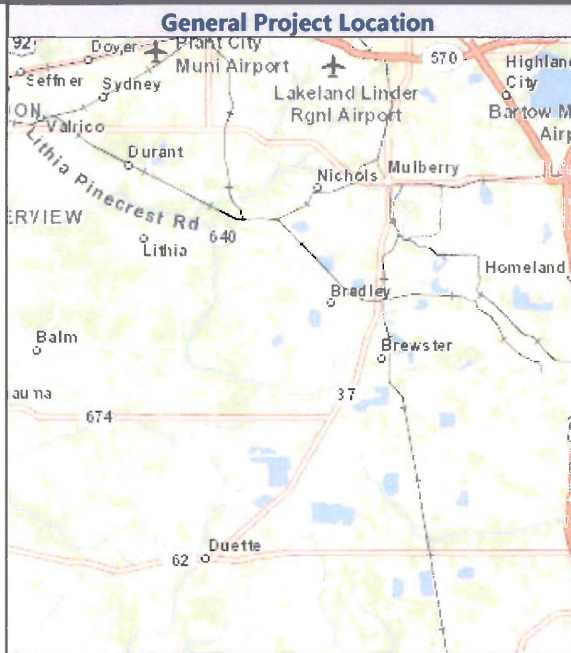
## 50038 - Regional Reservoir Toe Drain Outfall Monitoring Points

**Project Description:** As noted in the Comprehensive Annual reservoir Report (CARR) some of the toe drain outfalls are submerged hindering the ability to perform seepage data collection. Accurate seepage measurement is critical to demonstrate the reservoir embankment is performing in a safe and intended manner. This project will adjust toe drain exits to make them free-flowing and install level collection devices to reduce monitoring costs, which is expected to yield operational savings.

**Project Purpose:** Adjust toe drain outlet elevations to provide for free-flowing seepage measurement.

**Other Information:**

**Program/Source:** Reliability; Renewal and Replacement Program



Project Schedule		
Project Stage	Start Date	End Date
Professional Services	2/16/2015	4/10/2015
Design	4/13/2015	10/13/2015
Construction/Procure	10/14/2015	12/18/2015
Const	12/21/2015	10/17/2016
Additional Information		
Annual Maintenance Costs Net Change Upon Completion	(\$12,254)	
Annual Operating Cost Net Change Upon Completion	\$0	
Date First in CIP	2/5/2015	
Initial Cost Estimate as of Date First in CIP	\$829,000	
Funding Sources		Funding Needed
R&R		\$829,000
<b>TOTALS</b>		<b>\$829,000</b>

### Expenditure Plan

Cost Element	Thru FY2014 (actual)	FY2015 Revised	FY2016 Budgeted	FY2017 Budgeted	FY2018 Budgeted	FY2019 Budgeted	FY2020 Budgeted	Future Budgeted	TOTALS
Engineering (Concept/Planning)	\$0	\$74,317	\$6,683	\$0	\$0	\$0	\$0	\$0	\$81,000
Engineering (Construction)	\$0	\$0	\$50,950	\$3,050	\$0	\$0	\$0	\$0	\$54,000
Legal	\$0	\$929	\$71	\$0	\$0	\$0	\$0	\$0	\$1,000
Construction	\$0	\$0	\$502,897	\$30,103	\$0	\$0	\$0	\$0	\$533,000
Contingency	\$0	\$0	\$150,963	\$9,037	\$0	\$0	\$0	\$0	\$160,000
<b>TOTALS</b>	<b>\$0</b>	<b>\$75,246</b>	<b>\$711,565</b>	<b>\$42,189</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$829,000</b>



## 50039 - TBC Air Burst System Improvements

**Project Description:** This project includes replacing the existing two air compressors and relocating new units inside either the pump building or the electrical building. The control panel will need to be modified. New electrical and air supply lines will be installed. Additionally, the original four pneumatic valve actuators will be replaced, and protective covering will be installed between the generator enclosure and the pump building above the actuators to protect them from weather and sunlight deterioration.

**Project Purpose:**

**Other Information:** This is a Renewal and Replacement (R&R) Program Project and has a high priority as indicated by the Replacement Planning Model of the R&R Program.

**Program/Source:** Renewal and Replacement Program

General Project Location		Project Schedule		
		Project Stage	Start Date	End Date
		Professional Services	10/2/2015	12/15/2015
		Design	12/16/2015	8/16/2016
		Construction/Procure	8/17/2016	11/9/2016
		Const	11/10/2016	7/27/2017
Additional Information				
Annual Maintenance Costs Net Change Upon Completion			(\$256)	
Annual Operating Cost Net Change Upon Completion			\$0	
Date First in CIP			1/20/2015	
Initial Cost Estimate as of Date First in CIP			\$382,000	
Funding Sources		Funding Needed		
R&R		\$382,000		
<b>TOTALS</b>		<b>\$382,000</b>		

### Expenditure Plan

Cost Element	Thru FY2014 (actual)	FY2015 Revised	FY2016 Budgeted	FY2017 Budgeted	FY2018 Budgeted	FY2019 Budgeted	FY2020 Budgeted	Future Budgeted	TOTALS
Engineering (Concept/Planning)	\$0	\$0	\$52,619	\$2,381	\$0	\$0	\$0	\$0	\$55,000
Engineering (Construction)	\$0	\$0	\$0	\$53,000	\$0	\$0	\$0	\$0	\$53,000
Legal	\$0	\$0	\$1,000	\$0	\$0	\$0	\$0	\$0	\$1,000
Construction	\$0	\$0	\$0	\$182,000	\$0	\$0	\$0	\$0	\$182,000
Contingency	\$0	\$0	\$16,000	\$75,000	\$0	\$0	\$0	\$0	\$91,000
<b>TOTALS</b>	<b>\$0</b>	<b>\$0</b>	<b>\$69,619</b>	<b>\$312,381</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$382,000</b>



## 50041 - NW Hillsborough WF Motor Control Centers and Arc Flash Mitigation

**Project Description:** Replacement of existing electrical equipment with newer and safer equipment. The new electrical equipment will reduce the electrical hazard condition that exists to maintenance personnel. The new electrical equipment will incorporate soft starters in new pump control panels.

**Project Purpose:** This is a Renewal and Replacement (R&R) Program Project and has a high priority as indicated by the Replacement Planning Model of the R&R Program.

**Other Information:**

**Program/Source:** Renewal and Replacement Program

General Project Location		Project Schedule		
		Project Stage	Start Date	End Date
		Design	4/5/2016	6/7/2016
		Construction/Procure	6/8/2016	8/10/2016
		Const	8/11/2016	3/15/2017
Additional Information				
Annual Maintenance Costs Net Change Upon Completion		\$0		
Annual Operating Cost Net Change Upon Completion		\$0		
Date First in CIP		1/20/2015		
Initial Cost Estimate as of Date First in CIP		\$489,000		
Funding Sources		Funding Needed		
R&R		\$489,000		
<b>TOTALS</b>		<b>\$489,000</b>		

### Expenditure Plan

Cost Element	Thru FY2014 (actual)	FY2015 Revised	FY2016 Budgeted	FY2017 Budgeted	FY2018 Budgeted	FY2019 Budgeted	FY2020 Budgeted	Future Budgeted	TOTALS
Construction	\$0	\$0	\$87,037	\$288,963	\$0	\$0	\$0	\$0	\$376,000
Contingency	\$0	\$0	\$26,157	\$86,843	\$0	\$0	\$0	\$0	\$113,000
<b>TOTALS</b>	<b>\$0</b>	<b>\$0</b>	<b>\$113,194</b>	<b>\$375,806</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$489,000</b>



## 50050 - Renewal and Replacement Program As-needed Activities

**Project Description:** This project includes as-needed and lower cost Renewal and Replacement activities identified through the Renewal and Replacement Planning Model for each Fiscal Year. Activities are in multiple facilities.

**Project Purpose:**

**Other Information:**

**Program/Source:** Renewal and Replacement Program

General Project Location		Project Schedule		
		Project Stage	Start Date	End Date
		Construction, Phase 1	10/1/2015	9/30/2016
		Construction, Phase 2	10/1/2016	9/30/2017
		Construction, Phase 3	10/1/2017	9/30/2018
		Construction, Phase 4	10/1/2018	9/30/2019
		Construction, Phase 5	10/1/2019	9/30/2020
Additional Information				
Annual Maintenance Costs Net Change Upon Completion		\$0		
Annual Operating Cost Net Change Upon Completion		\$0		
Date First in CIP		2/12/2015		
Initial Cost Estimate as of Date First in CIP		\$0		
Funding Sources		Funding Needed		
R&R		\$500,000		
<b>TOTALS</b>		<b>\$500,000</b>		

### Expenditure Plan

Cost Element	Thru FY2014 (actual)	FY2015 Revised	FY2016 Budgeted	FY2017 Budgeted	FY2018 Budgeted	FY2019 Budgeted	FY2020 Budgeted	Future Budgeted	TOTALS
Construction	\$0	\$0	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$0	\$500,000
<b>TOTALS</b>	<b>\$0</b>	<b>\$0</b>	<b>\$100,000</b>	<b>\$100,000</b>	<b>\$100,000</b>	<b>\$100,000</b>	<b>\$100,000</b>	<b>\$0</b>	<b>\$500,000</b>



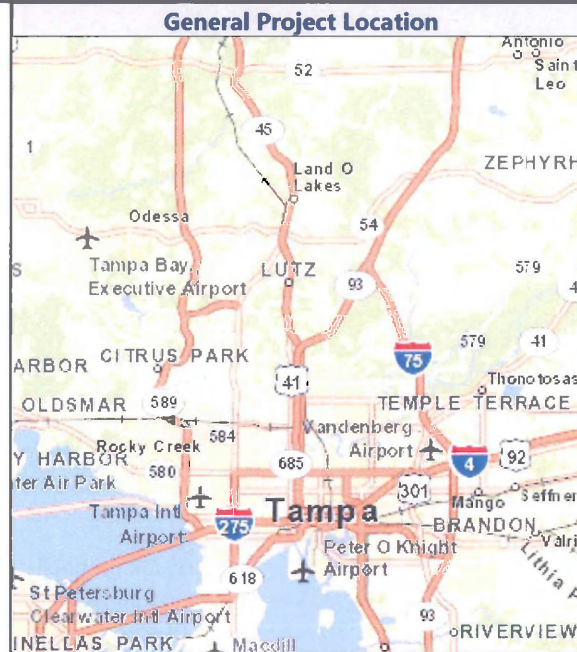
## 07002 - North System Pressure Modification Project

**Project Description:** Design and installation of two new low head pumps at each of the Odessa and US 41 Pump Stations

**Project Purpose:**

**Other Information:**

**Program/Source:** Reliability



Project Schedule		
Project Stage	Start Date	End Date
Professional Services	6/17/2013	10/21/2013
Design	10/29/2013	6/13/2014
Construction/Procure	6/16/2014	1/21/2015
Const	1/22/2015	2/22/2016
Additional Information		
Annual Maintenance Costs Net Change Upon Completion		\$0
Annual Operating Cost Net Change Upon Completion		\$343,643
Date First in CIP		12/18/2012
Initial Cost Estimate as of Date First in CIP		\$1,656,000
Funding Sources		Funding Needed
Capital Improvement Fund		\$2,529,994
<b>TOTALS</b>		<b>\$2,529,994</b>

### Expenditure Plan

Cost Element	Thru FY2014 (actual)	FY2015 Revised	FY2016 Budgeted	FY2017 Budgeted	FY2018 Budgeted	FY2019 Budgeted	FY2020 Budgeted	Future Budgeted	TOTALS
Engineering (Concept/Planning)	\$116,772	\$53,690	\$0	\$0	\$0	\$0	\$0	\$0	\$170,462
Engineering (Construction)	\$0	\$59,284	\$34,248	\$0	\$0	\$0	\$0	\$0	\$93,532
Construction	\$0	\$1,157,389	\$668,611	\$0	\$0	\$0	\$0	\$0	\$1,826,000
Contingency	\$0	\$278,889	\$161,111	\$0	\$0	\$0	\$0	\$0	\$440,000
<b>TOTALS</b>	<b>\$116,772</b>	<b>\$1,549,252</b>	<b>\$863,970</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$2,529,994</b>





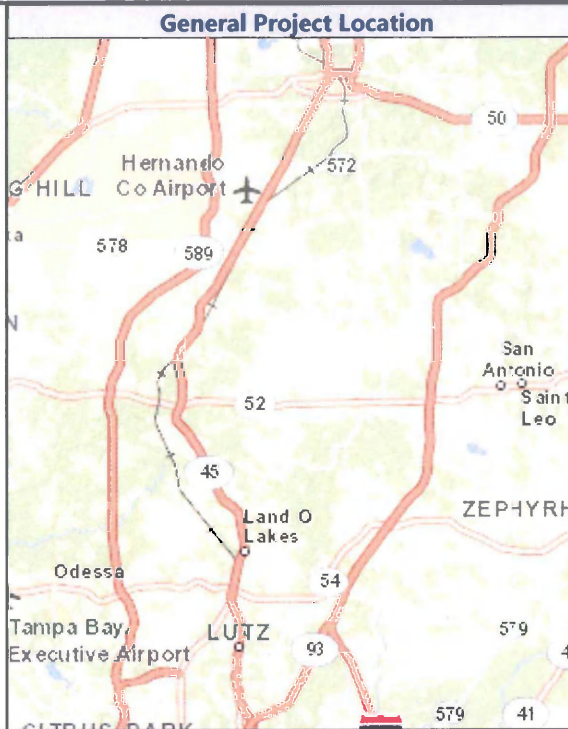
## 07152 - Cross Bar Ranch Wellfield - Pumps Replacement

**Project Description:** Cost analysis and energy analysis for pumps & motors at 17 wells at the Wellfield. The cost analysis will compare the replacement of pumps vs. the replacement of pumps and motors. The energy analysis will determine potential energy savings associated with the replacement of more efficient pumps and/or motors by comparing the existing baseline efficiency conditions to the proposed conditions by use of the selected pump/motor specifications. It includes the development of construction plans for the pumps and motors and their replacement.

**Project Purpose:** Replacement of pumps and/or motors at the 28-year old wellfield with energy efficient pumps/motors.

**Other Information:** The construction phase has been deferred to allow Tampa Bay Water to have this Facility available as a water source until the C.W. Bill Young Regional Reservoir construction is completed.

**Program/Source:** Energy Management Program; Renewal and Replacement Program



Project Schedule		
Project Stage	Start Date	End Date
Professional Services	4/11/2011	10/17/2011
Construction, Phase 1	6/1/2011	9/30/2011
Design	12/19/2011	10/22/2012
Construction/Procure	8/17/2013	8/18/2014
Construction, Phase 2	9/4/2014	2/20/2017
Additional Information		
Annual Maintenance Costs Net Change Upon Completion	(\$2,000)	
Annual Operating Cost Net Change Upon Completion	(\$220,000)	
Date First in CIP	10/16/2009	
Initial Cost Estimate as of Date First in CIP	\$780,000	
Funding Sources		Funding Needed
Capital Improvement Fund		\$2,595,959
R&R		\$786,356
<b>TOTALS</b>		<b>\$3,382,315</b>

### Expenditure Plan

Cost Element	Thru FY2014 (actual)	FY2015 Revised	FY2016 Budgeted	FY2017 Budgeted	FY2018 Budgeted	FY2019 Budgeted	FY2020 Budgeted	Future Budgeted	TOTALS
Engineering (Concept/Planning)	\$381,048	\$43,952	\$0	\$0	\$0	\$0	\$0	\$0	\$425,000
Engineering (Construction)	\$0	\$117,598	\$110,079	\$43,009	\$0	\$0	\$0	\$0	\$270,686
Construction	\$130,770	\$1,005,156	\$978,423	\$382,280	\$0	\$0	\$0	\$0	\$2,496,629
Contingency	\$0	\$82,544	\$77,267	\$30,189	\$0	\$0	\$0	\$0	\$190,000
<b>TOTALS</b>	<b>\$511,819</b>	<b>\$1,249,250</b>	<b>\$1,165,769</b>	<b>\$455,478</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$3,382,315</b>



## 07538 - Cypress Creek WTP Yard Pipe

**Project Description:** Abandonment in place of existing underground PCCP pipe, and venturi meter; Demolition or filling in the three vaults; Installation of up to 215-ft of above-ground 72-inch ductile iron or steel pipe (specific pipe material to be determined during the 30% design) from the existing cross point to the existing 84-inch split to 42-inch ductile iron pipe; A new above-ground 72-inch venturi meter; A 36-inch access hatch; and Three chemical injection ports and sampling ports.

**Project Purpose:** The project includes replacement of the below ground piping, vaults, and venturi meter with new above-ground piping, venturi meter, and chemical injection points. Cypress Creek WTP influent comes to the plant by a single 60-inch diameter buried prestressed concrete (PCCP) TM immediately after a cross tying in the Cypress Creek WF collection main and the Cross Bar Ranch WF TM. The existing chemical injection vault immediately downstream of the cross includes a blind flange on a tapping fitting to support the injector. There is a significant amount of corrosion observed on the bolts and probably the outer flange of this fitting. The North Section has requested an analysis of options to correct the situation so the injection port is secured. This project provides for a long term solution for the replacement of the chemical feed vault.

**Other Information:**

**Program/Source:** Improvement to existing asset



Project Schedule		
Project Stage	Start Date	End Date
Professional Services	10/29/2014	2/23/2015
Design	2/23/2015	10/30/2015
Construction/Procure	10/30/2015	3/14/2016
Const	3/14/2016	4/17/2017
Additional Information		
Annual Maintenance Costs Net Change Upon Completion		\$1,546
Annual Operating Cost Net Change Upon Completion		\$0
Date First in CIP		3/28/2014
Initial Cost Estimate as of Date First in CIP		\$1,294,000
Funding Sources		Funding Needed
Capital Improvement Fund		\$1,294,000
<b>TOTALS</b>		<b>\$1,294,000</b>

### Expenditure Plan

Cost Element	Thru FY2014 (actual)	FY2015 Revised	FY2016 Budgeted	FY2017 Budgeted	FY2018 Budgeted	FY2019 Budgeted	FY2020 Budgeted	Future Budgeted	TOTALS
Engineering (Concept/Planning)	\$0	\$145,524	\$24,275	\$0	\$0	\$0	\$0	\$0	\$169,799
Engineering (Construction)	\$0	\$0	\$72,620	\$72,256	\$0	\$0	\$0	\$0	\$144,876
Construction	\$0	\$0	\$387,469	\$385,531	\$0	\$0	\$0	\$0	\$773,000
Contingency	\$0	\$0	\$99,411	\$98,914	\$0	\$0	\$0	\$0	\$198,325
Permit Fees	\$0	\$7,036	\$964	\$0	\$0	\$0	\$0	\$0	\$8,000
<b>TOTALS</b>	<b>\$0</b>	<b>\$152,560</b>	<b>\$584,738</b>	<b>\$556,702</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$1,294,000</b>



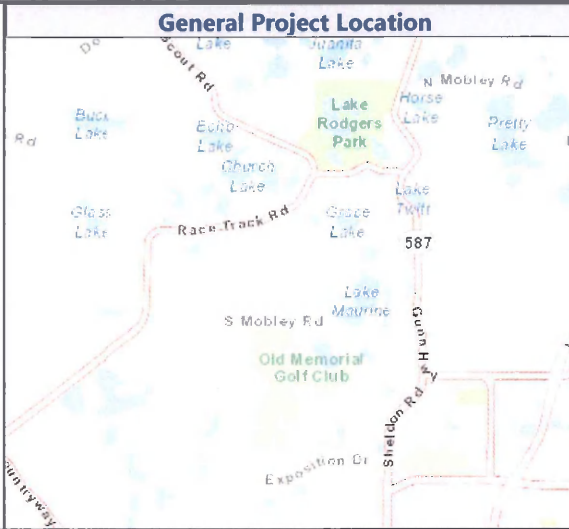
## 09004 - Cosme WTP and St. Petersburg's POC Update

**Project Description:** The City of St. Petersburg (City) is proposing several cost-saving alternatives to modify operations of their Cosme Water Treatment Plant (WTP). Based on the City's proposal and a recent request from the City to test the existing by-pass Point of Connection at the Cosme WTP, Tampa Bay Water anticipates the City will request a modification to one or more of its Points of Connection. Similar to negotiations with other Member Governments, this request will require the development of a Memorandum of Understanding, and/or a Joint Project Agreement, and/or an Amendment to Exhibit C of the Master Water Supply Contract. A feasibility study is recommended to support staff in these coming negotiations.

**Project Purpose:**

**Other Information:**

**Program/Source:** Memorandum of Understanding; Joint Project Agreement



Project Schedule		
Project Stage	Start Date	End Date
Planning, Phase 1	10/1/2015	10/12/2017
Additional Information		
Annual Maintenance Costs Net Change Upon Completion	\$0	
Annual Operating Cost Net Change Upon Completion	\$0	
Date First in CIP	12/18/2012	
Initial Cost Estimate as of Date First in CIP	\$250,000	
Funding Sources		Funding Needed
Uniform Rate	\$125,000	
<b>TOTALS</b>	<b>\$125,000</b>	

### Expenditure Plan

Cost Element	Thru FY2014 (actual)	FY2015 Revised	FY2016 Budgeted	FY2017 Budgeted	FY2018 Budgeted	FY2019 Budgeted	FY2020 Budgeted	Future Budgeted	TOTALS
Engineering (Concept/Planning)	\$0	\$0	\$61,489	\$61,489	\$2,022	\$0	\$0	\$0	\$125,000
<b>TOTALS</b>	<b>\$0</b>	<b>\$0</b>	<b>\$61,489</b>	<b>\$61,489</b>	<b>\$2,022</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$125,000</b>



## 11006 - South Pasco Transmission Main Condition Assessment

**Project Description:** Condition assessment will be completed on the eastern portion of the South Pasco Transmission main between the Cypress Creek Transmission main on the north side, to the Lake Park WTP on the south side. This condition assessment will be completed with the SmartBall and PipeDiver devices that will listen for leaks and assess the pipe.

**Project Purpose:**

**Other Information:**

**Program/Source:** Reliability; Renewal and Replacement Program

General Project Location		Project Schedule		
		<b>Project Stage</b>	<b>Start Date</b>	<b>End Date</b>
		Planning, Phase 1	10/1/2014	9/30/2015
		Planning, Phase 2	10/1/2015	9/30/2016
		Planning, Phase 3	10/1/2016	9/30/2017
<b>Additional Information</b>				
Annual Maintenance Costs Net Change Upon Completion		\$0		
Annual Operating Cost Net Change Upon Completion		\$0		
Date First in CIP		12/12/2013		
Initial Cost Estimate as of Date First in CIP		\$716,885		
<b>Funding Sources</b>		<b>Funding Needed</b>		
Uniform Rate		\$1,547,871		
<b>TOTALS</b>		<b>\$1,547,871</b>		

### Expenditure Plan

Cost Element	Thru FY2014 (actual)	FY2015 Revised	FY2016 Budgeted	FY2017 Budgeted	FY2018 Budgeted	FY2019 Budgeted	FY2020 Budgeted	Future Budgeted	TOTALS
Engineering (Concept/Planning)	\$0	\$575,871	\$800,000	\$172,000	\$0	\$0	\$0	\$0	\$1,547,871
<b>TOTALS</b>	<b>\$0</b>	<b>\$575,871</b>	<b>\$800,000</b>	<b>\$172,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$1,547,871</b>



## 52001 - Cypress Creek Pump Station Pumps Repair Program

**Project Description:** Repair of 5 Pumps at the Cypress Creek Pump Station.

**Project Purpose:** Cypress Creek Pump Station pumps repair program to address (1) observed pump malfunctions and (2) implement recommendations from the Energy Audit and Pump Test Report dated March 2013. This project is proposed to be added to the agency's Renewal and Replacement Program.

**Other Information:**

**Program/Source:** Energy Management Program; Renewal and Replacement Program

General Project Location		Project Schedule		
		Project Stage	Start Date	End Date
		Construction, Phase 1	6/2/2014	3/12/2015
		Construction, Phase 2	1/23/2015	10/27/2015
		Construction, Phase 3	9/10/2015	6/30/2016
		Construction, Phase 4	5/2/2016	2/8/2017
		Construction, Phase 5	12/21/2016	11/21/2017
		Construction, Phase 6	8/7/2017	7/11/2018
<b>Additional Information</b>				
Annual Maintenance Costs Net Change Upon Completion			(\$10,000)	
Annual Operating Cost Net Change Upon Completion			(\$20,000)	
Date First in CIP			3/28/2014	
Initial Cost Estimate as of Date First in CIP			\$674,923	
<b>Funding Sources</b>			<b>Funding Needed</b>	
Energy Fund			\$674,924	
<b>TOTALS</b>			<b>\$674,924</b>	

### Expenditure Plan

Cost Element	Thru FY2014 (actual)	FY2015 Revised	FY2016 Budgeted	FY2017 Budgeted	FY2018 Budgeted	FY2019 Budgeted	FY2020 Budgeted	Future Budgeted	TOTALS
Construction	\$0	\$196,277	\$155,873	\$146,328	\$99,153	\$0	\$0	\$0	\$597,630
Contingency	\$0	\$19,926	\$22,018	\$21,071	\$14,278	\$0	\$0	\$0	\$77,293
<b>TOTALS</b>	<b>\$0</b>	<b>\$216,203</b>	<b>\$177,891</b>	<b>\$167,399</b>	<b>\$113,431</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$674,924</b>

# Divisional Operating Budget Detail

Fiscal Year 2016

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The Divisional Operating Budget Detail section provides an overall view of the fiscal year 2016 operating budget and historical budget trends of the agency for the preceding four years. It also provides budget information at the divisional level along with each division's responsibilities, goals and objectives.

## Tampa Bay Water – 2016 Annual Budget Divisional Operating Budget Detail

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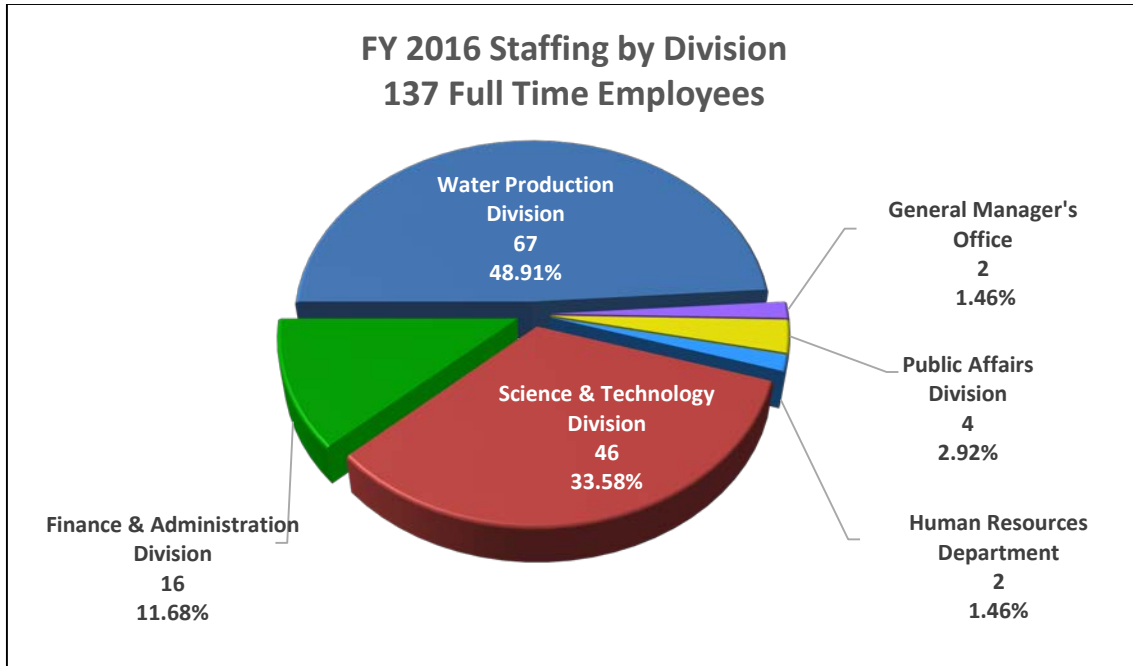
This section provides summaries of Tampa Bay Water’s new divisional organizations, mission, responsibilities, as well as historical budget trends.

As the Agency has matured, and shifted from an organization focused on the planning and construction of new supplies to an organization focused on the efficient operation and timely maintenance of its robust and integrated regional supply system, a new organizational chart was developed. The organizational design separates the agency into four divisions: Water Production, Finance & Administration, Public Affairs, and Science & Technology and has the Human Resource Department as a direct report to the General Manager. Each division focuses on continually developing efficient work processes and creating performance measures to strive for efficiencies and affordable service.

Tampa Bay Water’s organizational design focuses on the Mission, Vision and Value statements, and better positions the agency to implement the Board’s Strategic Plan.

### Staffing

For fiscal year 2016, \$14,696,010 or approximately 9.2 percent of the Operating Budget is funding for 137 fulltime employees and 6 Co-op students. The chart below shows the breakdown of full time employees per division for FY 2016.



**Tampa Bay Water – 2016 Annual Budget  
Divisional Operating Budget Detail**

The chart below shows budget approved full time employees and co-op positions for fiscal years 2009 through 2015 by area, demonstrating the Agency’s reorganization over the past couple years.

Area	Approved FY 2009	Approved FY 2010	Approved FY 2011	Approved FY 2012	Approved FY 2013	Approved FY 2014	Approved FY 2015	Approved FY 2016
General Manager	2	2	2	2	2	2	2	2
Public Affairs	1	1	3	3	3	5	5	4
General Counsel	3	3	2	2	1	*	*	*
Operations & Facilities	52	52	52	52	53			
Water Production						83	63	67
Finance & Administration	30	33	29	29	28	17	20	16
Human Resources						2	2	2
Science & Engineering	36	37	37	39	39			
Continuous Improvement						1		
Regulatory Compliance						11		
Information Technology						11		
Science & Technology							41	46
<b>Full Time Employees</b>	<b>124</b>	<b>128</b>	<b>125</b>	<b>127</b>	<b>126</b>	<b>132</b>	<b>133</b>	<b>137</b>

\*General Counsel now outsourced

A blank field means it was combined or part of another area.

	Approved FY 2009	Approved FY 2010	Approved FY 2011	Approved FY 2012	Approved FY 2013	Approved FY 2014	Approved FY 2015	Approved FY 2016
Co-op Positions	4	4	4	4	4	4	5	6



**Tampa Bay Water – 2016 Annual Budget**  
**Divisional Operating Budget Detail**

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**Position Requests for Fiscal Year 2016**

The Management and Performance Audit presented to the Board in 2010 indicated the need to systematically review the Agency's outsourcing activities to ensure the Agency is receiving good value. As Tampa Bay Water focuses on affordable service, staff reviewed outsourcing activities within all divisions and determined there was an opportunity to receive better value for services with in-house staff by requesting four additional positions (full time employees) and one co-op position.

The Water Production Division is adding two new positions -

A Building & Grounds Handyman position that will be responsible for assisting the Safety & Facility staff with services such as building maintenance functions, field visits, and transporting vehicles for repair services, and performing multiple building maintenance functions. Adding this position will provide an annual net savings of \$22,000.

A Construction Inspector position that will be responsible for assisting the Construction Coordinators with field inspections and performing contract administration duties such as aiding in contract modification negotiations, clarifications and reconciliation of pay quantities. Having an inspector on staff allows for specialized awareness of Tampa Bay Water construction risk. Adding this position reduces outside professional services costs and providing net savings of \$50,000 for the first year with an annual net savings of \$85,000 thereafter.

The Science & Technology Division is adding two new positions -

A Regulatory Compliance Engineer that will be supporting new and current regulatory compliance and water quality assessment responsibilities, such as; internal regulatory compliance auditing and environmental management system program implementation, source water assessment, water quality studies and contracted regulatory compliance monitoring. Adding this position reduced the outside professional services budget by \$125,000, with a net savings the first year of \$7,400.

A Water Resource System Engineer that will be responsible for assisting with long-term demand forecasting and annual updates, update and revisions to our water shortage mitigation plan and demand management/water use efficiency modeling. By bringing these responsibilities in-house it allows for succession planning and knowledge transfer for internal staff. Adding this position reduced the outside professional services budget by \$135,000 for the FY 2016 proposed budget and will result in annual net savings of at least \$122,000 long term.

The Finance & Administration Division is adding one new co-op position –

A Co-op will be responsible for assisting the finance and purchasing departments with their workload. Adding the co-op position provides a net savings of \$27,000 by reducing overtime of current personnel.

Tampa Bay Water - 2016 Annual Budget  
Divisional Operating Budget Detail

Uniform Rate Budget	Actual 2010	Actual 2011	Actual 2012	Actual 2013	Actual 2014	Approved 2015	Amended 2015	Approved 2016
<b>Expenditures:</b>								
41000 Regular Salaries	8,523,863	8,500,129	8,407,490	8,252,345	8,924,540	9,788,090	9,788,090	10,432,851
41300 Other Sal & Wages	20,317	20,309	16,162	8,233	10,858	11,340	11,340	11,794
41310 Employee Awards (FRS Exempt)	200	800	700	2,734	1,550	2,650	2,650	2,500
41320 Taxable Insurance Benefit (FRS Exempt)	100	1,708	-	-	-	-	-	-
41330 Taxable Excess Life Insurance (FRS Exempt)	-	2,188	-	-	-	-	-	-
41340 Auto Allowance	8,456	8,453	6,904	3,818	4,780	4,800	4,800	5,100
41350 Employee Training Incentives (FRS Exempt)	-	-	75,000	-	-	-	-	-
41410 Overtime	54,677	59,656	61,184	65,760	65,796	66,719	66,719	72,330
41420 Shift Differential	24,135	27,905	29,308	29,233	35,406	33,534	33,534	71,294
41430 On-call pay	35,748	35,223	37,442	38,757	42,094	46,473	46,473	48,372
42100 FICA	617,750	621,546	623,121	621,377	663,315	746,358	746,358	789,780
42200 FRS	888,127	753,049	419,558	493,347	708,997	1,133,245	1,133,245	980,458
42300 Life & Health Ins	1,362,857	1,327,009	1,093,774	1,205,427	1,494,987	1,837,900	1,839,632	2,010,173
42400 Workers' Compensation	101,320	85,368	96,638	113,029	125,422	134,170	134,170	201,358
42500 Unemployment Comp	83	8,524	-	4,167	2,750	15,000	15,000	10,000
42600 Other Post Employment Benefits	60,388	(8,368)	(25,304)	43,537	32,829	50,000	50,000	60,000
<b>Total Personnel Services</b>	<b>11,698,021</b>	<b>11,443,499</b>	<b>10,841,978</b>	<b>10,881,764</b>	<b>12,113,326</b>	<b>13,870,279</b>	<b>13,872,011</b>	<b>14,696,010</b>
55100 Office Supplies	33,969	30,583	37,708	34,705	32,581	65,725	65,725	63,700
55200 Operating Supplies	1,133,532	1,394,451	1,337,557	1,478,706	1,749,870	1,987,469	2,074,583	1,776,876
55260 Computer Software Expense	192,479	110,629	187,684	137,156	178,503	156,900	163,297	152,000
55400 Books, Publs, Subsc, Memberships	246,702	220,721	211,031	216,537	210,985	240,819	240,819	263,532
55500 Training	65,045	47,643	68,102	86,374	70,199	285,480	295,930	298,797
<b>Total Materials &amp; Supplies</b>	<b>1,671,727</b>	<b>1,804,027</b>	<b>1,842,082</b>	<b>1,953,478</b>	<b>2,242,137</b>	<b>2,736,393</b>	<b>2,840,354</b>	<b>2,554,905</b>

Tampa Bay Water - 2016 Annual Budget  
Divisional Operating Budget Detail

Uniform Rate Budget	Actual 2010	Actual 2011	Actual 2012	Actual 2013	Actual 2014	Approved 2015	Amended 2015	Approved 2016
63120 Engineering Services	2,662,636	2,375,566	2,072,725	1,753,775	2,496,470	2,836,190	3,351,648	2,479,800
63125 Engineering Services-Owners Allowance	10,000	-	-	4,600	3,250	-	22,948	-
63130 Hydrological Services	684,147	279,525	253,310	307,068	205,260	419,000	638,595	590,000
63140 Ecological Services	3,267,403	3,030,565	3,193,427	3,026,781	2,548,699	3,086,693	3,563,893	3,012,179
63181 Mitigation	2,038,982	909,353	974,579	769,071	526,502	900,000	900,000	660,000
63182 Augmentation	85,322	66,328	83,553	59,935	224,103	305,038	337,188	257,000
63190 Other Professional Services	1,420,624	1,403,592	1,181,401	1,493,658	1,773,853	2,416,705	2,375,107	3,165,140
63200 Accounting & Auditing	226,851	178,807	187,000	187,212	208,400	340,000	534,000	230,000
63400 Other Services	1,683,247	1,411,303	1,369,967	1,143,530	1,397,549	1,785,991	2,331,314	1,657,326
63410 O & M Agreements	10,224,403	12,094,396	13,641,558	13,290,155	14,558,475	15,431,569	16,466,793	15,503,620
<b>Total Professional Services</b>	<b>22,303,615</b>	<b>21,749,435</b>	<b>22,957,520</b>	<b>22,035,785</b>	<b>23,942,562</b>	<b>27,521,186</b>	<b>30,521,486</b>	<b>27,555,065</b>
64000 Travel & Per Diem	50,545	55,908	44,536	65,101	73,479	115,514	115,514	113,846
64005 Mileage & Tolls					403		-	25,300
64100 Communications Services	515,190	543,675	602,770	707,893	676,585	686,117	814,232	727,600
64120 Freight & Postage Services	96,098	92,202	91,685	91,016	73,123	112,200	125,033	98,000
64320 Water, Sewer, & Other Utilities	433,170	145,830	77,946	590,146	241,176	359,000	351,419	241,272
64600 Repair & Maint-Eq & Grounds	1,798,122	1,845,111	2,178,105	2,156,411	1,714,408	2,753,252	3,394,497	2,768,989
64700 Printing & Binding	26,563	21,419	17,578	26,551	23,611	40,500	39,015	40,500
64800 Promotional Activities	30,793	47,210	21,712	3,738	9,733	24,000	26,848	27,000
64810 Advertising	95,731	69,299	22,216	103,557	62,082	93,880	93,965	86,750
64990 Other Current Charges	103,779	90,963	121,684	134,167	108,457	50,240	63,240	196,575
64991 Permits	13,673	4,594	9,700	5,840	1,140	77,934	77,934	79,500
<b>Total Repairs &amp; Other Services</b>	<b>3,163,664</b>	<b>2,916,211</b>	<b>3,187,933</b>	<b>3,884,420</b>	<b>2,984,196</b>	<b>4,312,637</b>	<b>5,101,697</b>	<b>4,405,332</b>
64400 Rentals & Leases	264,973	263,204	276,886	301,434	263,171	280,939	338,338	138,000
64500 Insurance	870,417	920,963	1,147,547	1,385,720	1,558,726	1,639,600	1,670,898	1,691,000
<b>Total Rent &amp; Insurance</b>	<b>1,135,390</b>	<b>1,184,167</b>	<b>1,424,433</b>	<b>1,687,154</b>	<b>1,821,898</b>	<b>1,920,539</b>	<b>2,009,236</b>	<b>1,829,000</b>
<b>63110 Legal Services</b>	<b>4,241,500</b>	<b>3,866,647</b>	<b>2,934,148</b>	<b>617,748</b>	<b>321,258</b>	<b>545,000</b>	<b>544,735</b>	<b>545,000</b>

Tampa Bay Water - 2016 Annual Budget  
Divisional Operating Budget Detail

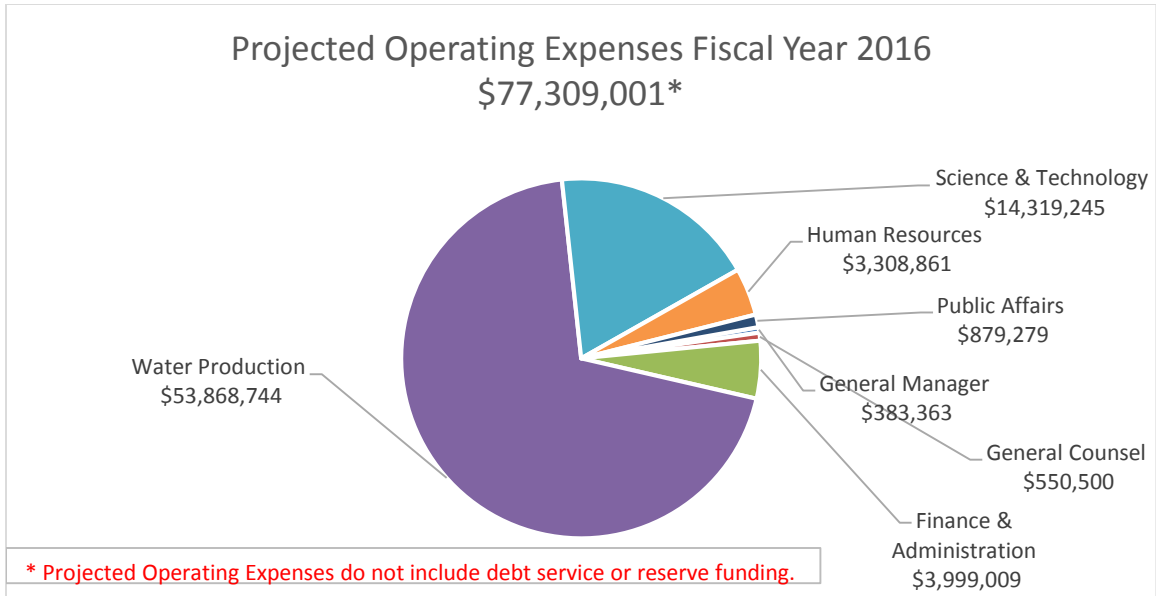
Uniform Rate Budget	Actual 2010	Actual 2011	Actual 2012	Actual 2013	Actual 2014	Approved 2015	Amended 2015	Approved 2016
86100 Land Acq Cost-Purchase	16,878	-	-	-	-	25,000	25,000	25,000
86110 Land Acq Cost-Legal	-	-	-	-	-	10,000	10,000	5,000
86120 Land Acq Cost-Prop Stlmnt Attny	2,500	-	-	-	-	-	-	-
86190 Land Acq Cost-Other	7,079	15,279	95	-	-	1,000	1,000	1,000
86300 Capital Improve Facility	209,175	-	-	-	-	-	-	-
86400 Mach & Equipment Purchase	994,667	1,054,084	830,410	1,026,896	833,824	1,135,788	1,360,662	1,008,992
86610 Software-To Amortize	-	34,249	28,915	-	626,726	295,000	581,650	470,000
<b>Total Capital Expenditures</b>	<b>1,230,299</b>	<b>1,103,612</b>	<b>859,420</b>	<b>1,026,896</b>	<b>1,460,550</b>	<b>1,466,788</b>	<b>1,978,312</b>	<b>1,509,992</b>
86500 Construction in Progress	-	-	-	-	-	-	-	-
86505 Construction in Progress-Owners Allowance	-	-	-	-	-	-	-	-
<b>Total Construction in Progress</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
77210 Interest Bonds	50,425,770	48,321,657	47,224,766	48,327,974	48,272,316	46,106,252	46,106,252	43,783,958
87108 Principal 1998 Bonds	-	-	-	-	-	-	-	-
871 09 Principal 1999 Bonds	7,220,000	7,585,000	-	-	-	-	-	-
87111 Principal 2001-A Bonds	955,000	1,000,000	-	-	-	-	-	-
87112 Principal 2001-B Bonds	3,385,000	3,510,000	-	-	-	-	-	-
87113 Principal 2002 Bonds	-	-	-	-	-	-	-	-
87114 Principal 2004 Bonds	5,995,000	6,175,000	9,660,000	10,145,000	10,655,000	11,180,000	11,180,000	11,770,000
87116 Principal 2005 Bonds	3,610,000	3,730,000	4,415,000	4,640,000	4,875,000	5,145,000	5,145,000	5,410,000
87117 Principal 2006 Bonds	2,790,000	2,905,000	3,015,000	3,145,000	1,905,000	340,000	340,000	355,000
87118 Principal 2008 Bonds	-	-	-	-	-	-	-	-
87140 Principal 2011 Bonds	-	-	8,325,000	8,735,000	9,170,000	9,630,000	9,630,000	10,115,000
87141 Principal 2011A Bonds	-	310,000	285,000	290,000	295,000	305,000	305,000	30,000
87142 Principal 2011 B Bonds	-	325,000	160,000	165,000	165,000	170,000	170,000	175,000
87145 Principal 2015B Bonds	-	-	-	-	-	-	-	775,000
<b>Total Debt Service</b>	<b>74,380,770</b>	<b>73,861,657</b>	<b>73,084,766</b>	<b>75,447,974</b>	<b>75,337,316</b>	<b>72,876,252</b>	<b>72,876,252</b>	<b>72,413,958</b>
77250 Interest Facility Purchase	6,106,533	5,922,970	5,726,929	5,517,464	5,294,959	5,058,496	5,058,496	4,808,120
87125 Principal Payment Facility Acq.	4,125,024	4,308,586	4,504,628	4,714,094	4,936,599	5,173,062	5,173,062	5,423,438
<b>Total Acquisition Credits to Members</b>	<b>10,231,557</b>	<b>10,231,556</b>	<b>10,231,558</b>	<b>10,231,558</b>	<b>10,231,558</b>	<b>10,231,558</b>	<b>10,231,558</b>	<b>10,231,558</b>
<b>55250 Water Quality Credit Expense</b>	<b>292,000</b>	<b>195,000</b>	<b>195,000</b>	<b>195,000</b>	<b>48,000</b>	<b>48,000</b>	<b>48,000</b>	<b>48,000</b>

Tampa Bay Water - 2016 Annual Budget  
Divisional Operating Budget Detail

Uniform Rate Budget	Actual 2010	Actual 2011	Actual 2012	Actual 2013	Actual 2014	Approved 2015	Amended 2015	Approved 2016
82810 O&M Reserve Funding	1,674,787	-	-	-	-	-	-	-
82820 Renewal & Replacement Rsv Fund	(250,000)	-	999,452	-	-	6,896,387	6,896,387	8,018,329
82870 Capital Improvement Funding	-	199,402	-	-	-	37,923	37,923	26,995
<b>Total Reserve Funding</b>	<b>1,424,787</b>	<b>199,402</b>	<b>999,452</b>	<b>-</b>	<b>-</b>	<b>6,934,310</b>	<b>6,934,310</b>	<b>8,045,324</b>
55210 Water Treatment Chemicals	9,250,955	8,338,843	8,331,008	8,086,605	8,250,112	11,769,355	11,697,417	10,665,878
64310 Power and Light	13,264,739	10,853,333	9,199,169	11,164,826	12,061,160	13,543,263	13,544,864	12,003,244
64380 Water for Resale-Variable	2,068,958	1,462,445	1,568,872	1,917,610	1,802,135	1,544,575	1,544,575	1,544,575
<b>Total Variable Costs</b>	<b>24,584,652</b>	<b>20,654,621</b>	<b>19,099,049</b>	<b>21,169,041</b>	<b>22,113,407</b>	<b>26,857,193</b>	<b>26,786,856</b>	<b>24,213,697</b>
<b>GRAND TOTAL</b>	<b>156,357,982</b>	<b>149,209,834</b>	<b>147,657,339</b>	<b>149,130,818</b>	<b>152,616,207</b>	<b>169,320,135</b>	<b>173,744,807</b>	<b>168,047,840</b>

Note 1: AMENDED BUDGET INCLUDES ADOPTED BUDGET PLUS ALL APPROVED BUDGET TRANSFERS & AMENDMENTS.

**Tampa Bay Water – 2016 Annual Budget  
Divisional Operating Budget Detail**



<b>OFFICE OF GENERAL MANAGER</b>	<b>FY 2016</b>
Salaries & Wages	\$ 344,754
Materials & Supplies	27,959
Repairs & Other Services	10,650
<b>Total Office of General Manager</b>	<b>\$ 383,363</b>

<b>GENERAL COUNSEL</b>	<b>FY 2016</b>
Professional Services	3,000
Legal Services	545,000
Capital Equipment	2,500
<b>Total General Counsel</b>	<b>\$ 550,500</b>

<b>FINANCE &amp; ADMINISTRATION</b>	<b>FY 2016</b>
Salaries & Wages	\$ 1,258,928
Materials & Supplies	341,305
Professional Services	485,576
Repairs & Other Services	277,200
Rent, Insurance & Construction	1,602,500
Capital Equipment	33,500
<b>Total Finance &amp; Administration (does not include debt service or reserve funding)</b>	<b>\$ 3,999,009</b>

**Tampa Bay Water – 2016 Annual Budget  
Divisional Operating Budget Detail**

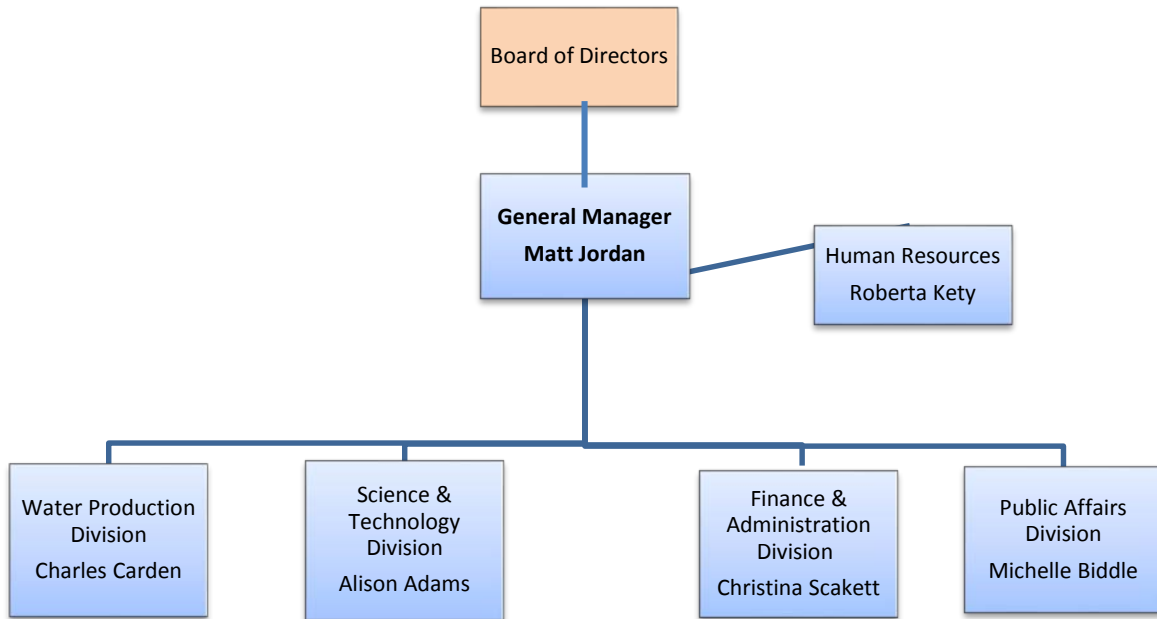
<b>WATER PRODUCTION</b>	<b>FY 2016</b>
Salaries & Wages	\$ 5,283,467
Materials & Supplies	1,425,337
Professional Services	19,237,770
Repairs & Other Services	2,911,539
Rent, Insurance & Construction	221,500
Capital Equipment	575,434
Water Quality Credits	48,000
Water Treatment Chemicals	\$ 10,665,878
Power / Electricity	12,003,244
Water for Resale	1,544,575
<b>Total Water Production</b>	<b>\$ 53,916,744</b>
<b>SCIENCE &amp; TECHNOLOGY</b>	<b>FY 2016</b>
Salaries & Wages	\$ 4,205,124
Materials & Supplies	688,846
Professional Services	7,497,699
Repairs & Other Services	1,030,018
Capital Equipment	897,558
<b>Total Science &amp; Technology</b>	<b>\$ 14,319,245</b>
<b>HUMAN RESOURCES</b>	<b>FY 2016</b>
Salaries & Wages	\$ 3,166,216
Materials & Supplies	42,950
Professional Services	41,020
Repairs & Other Services	52,675
Rent, Insurance & Construction	5,000
Capital Equipment	1,000
<b>Total Human Resources</b>	<b>\$ 3,308,861</b>
<b>PUBLIC AFFAIRS</b>	<b>FY 2016</b>
Salaries & Wages	\$ 437,521
Materials & Supplies	28,508
Professional Services	290,000
Repairs & Other Services	123,250
<b>Total Public Affairs</b>	<b>\$ 879,279</b>

**Tampa Bay Water – 2016 Annual Budget**  
**Divisional Operating Budget Detail**

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**Office of the General Manager**

The **General Manager** is appointed by and serves at the pleasure of the Agency's Board of Directors and is responsible for providing the leadership to develop and expand the organization in a multitude of activities in the areas of water production, science, technology, finance, administration, public affairs and ensuring that Board policies and programs are implemented in accordance with the Board's direction. The General Manager oversees the Human Resources Department and four divisions as follows:



The General Manager provides considerable interaction and coordination with members of the Board and members of other public agencies conducting business with the Agency. The General Manager promotes the overall mission and strategic planning of the Agency. He anticipates and keeps apprised of key issues of the Federal, State and local governmental and municipal bodies as they relate to the Agency's interest. The General Manager assures the organization and its mission, programs, products and services are consistently presented in a strong, positive image to Agency stakeholders and are consistent with the policy direction of the Board of Directors.

The General Manager also coordinates all legal matters for the agency with the agency's General Counsel. The General Counsel handles a variety of legal matters including those relating to operations, permitting, contracts, property acquisition, construction-related services, human resource and fiscal matters and defense of legal matters. Since May 2012, the agency's general counsel duties have been performed through outside contracted services with Pennington, P.A.



**Tampa Bay Water – 2016 Annual Budget  
Divisional Operating Budget Detail**

General Manager	2015	2015	2016
	Approved Budget	Amended Budget	Approved Budget
<b>Expenditures:</b>			
41000 Regular Salaries	238,493	238,493	255,784
41300 Other Salaries & Wages	11,340	11,340	11,794
41340 Auto Allowance	4,800	4,800	5,100
42100 FICA	13,738	13,738	14,886
42200 FRS	46,473	46,473	57,190
<b>Total Personnel Services</b>	<b>314,844</b>	<b>314,844</b>	<b>344,754</b>
55200 Operating Supplies	1,812	1,812	1,195
55400 Books, Pubis, Subsc, Memberships	22,878	22,878	25,214
55500 Training	1,540	1,540	1,550
<b>Total Materials &amp; Supplies</b>	<b>26,230</b>	<b>26,230</b>	<b>27,959</b>
64000 Travel & Per Diem	5,000	5,000	7,200
64005 Mileage & Tolls	0	0	200
64120 Freight & Postage Services	50	50	100
64810 Advertising	1,400	1,400	1,750
64990 Other Current Charges	1,390	1,390	1,400
<b>Total Repairs &amp; Other Services</b>	<b>7,840</b>	<b>7,840</b>	<b>10,650</b>
<b>GRAND TOTAL</b>	<b>348,914</b>	<b>348,914</b>	<b>383,363</b>

**Note 1: AMENDED BUDGET INCLUDES ADOPTED BUDGET PLUS ALL APPROVED BUDGET TRANSFERS & AMENDMENTS**

**Tampa Bay Water – 2016 Annual Budget  
Divisional Operating Budget Detail**

General Counsel	2015	2015	2016
	Approved Budget	Amended Budget	Approved Budget
Expenditures:			
63190 Other Professional Services	3,000	3,000	3,000
<b>Total Professional Services</b>	3,000	3,000	3,000
64990 Other Current Charges	200	200	-
<b>Total Repairs &amp; Other Services</b>	200	200	-
63110 Legal Services	545,000	544,735	545,000
86110 Land Acq Cost-Legal	5,000	5,000	2,500
<b>Total Capital Expenditures</b>	5,000	5,000	2,500
<b>GRAND TOTAL</b>	<b>553,200</b>	<b>552,935</b>	<b>550,500</b>

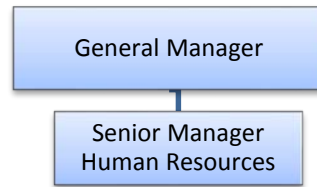
**Note 1: AMENDED BUDGET INCLUDES ADOPTED BUDGET PLUS ALL APPROVED BUDGET TRANSFERS & AMENDMENTS.**

**Tampa Bay Water – 2016 Annual Budget**  
**Divisional Operating Budget Detail**

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**Human Resources**

The **Human Resources Department** is responsible for assisting in the needs of the 133 full time equivalent employee positions of Tampa Bay Water. Currently Human Resources is comprised of two full-time positions and reports directly to the Agency General Manager.



The mission of the Agency’s Human Resources Department is to maintain a fair, equitable, and positive work environment for all employees in support of the mission of the Agency. The Human Resources Division believes that the success of the Agency is primarily dependent upon its employees. Further, it is our commitment to our employees and their development that we believe will create job satisfaction, career opportunities and provide maximum benefit to the organization.

The Human Resources Department provides assistance and advocacy for employees and retirees through the administration of benefit programs, policies and procedures; by promoting positive employee relations; and by ensuring a competent and diverse workforce. The Human Resources Department provides to our constituents a diverse range of Human Resources services to ensure that the Tampa Bay Water continues to be a desirable place to work.

For our employees, we serve as a resource of information and expertise to enhance the well-being and quality of life among our workforce. The Human Resources Division demonstrates through our actions and behavior a genuine respect for the dignity of the individual and to honor each person's right to fair and equitable treatment in all aspects of the employment relationship.

The Human Resources Department accomplishes this through the following major objectives:

- Providing employees with the tools, training, and knowledge that motivates them to perform in the most effective and efficient manner possible. Human Resources regards training, education and employee development activities as an investment to promote individual success and to increase overall value to the Agency.
- Inspiring and encouraging a high level of employee morale through recognition, effective communication, and providing effective feedback. The Human Resources Department encourages open discussion between supervisors and employees and

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manages the process to regularly review employee performance by establishing clear objectives, providing relevant and positive feedback to assure continued development, and consistently works towards the objective of achieving an environment of involvement, commitment, empowerment, and productivity.

- Promoting a diverse workforce that recognizes each employee as an individual in a safe and discrimination/harassment free environment through positive programs of hiring, career development, and promotion.
- Facilitating change management and the pursuit of excellence in all employee programs, and influencing positive employee-management relationships.
- Establishing, administering, and communicating sound policies and practices that treat employees with dignity and equality while maintaining compliance with applicable law, policy, and regulation.
- Providing professional human resources consultation to the organization regarding staffing, organizational effectiveness, training and development, compensation, Equal Employment Opportunity/Affirmative Action, benefits administration and related practices.
- Recruiting and hiring the most qualified employees, by: pre-planning staffing needs; ensuring an effective review process; increasing Agency visibility in the marketplace; identifying the best and most cost effective recruitment sources; and conducting thorough reference checks. Promoting from within is encouraged whenever possible, especially when it is beneficial to the employee and the Agency.
- Retaining valued Agency employees by: providing professional training in effective management techniques that will assure effective leadership qualities in our managers; providing competitive wages and benefits and administering individual salaries and promotions in a manner that recognizes the relative value of each position and that rewards individual performance; providing technical, interpersonal, and career development training and coaching; conducting exit interviews and supplying relevant feedback to management; and enhancing communication between employees and management.
- Providing a safe, efficient, and attractive work environment through maintenance of good physical working conditions, proper work practices and safeguards, and the fostering of harmonious work relationships among all employees.

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Human Resources	2015	2015	2016
	Approved Budget	Amended Budget	Approved Budget
<b>Expenditures:</b>			
41000 Regular Salaries	629,602	629,602	798,007
41310 Employee Awards (FRS Exempt)	2,650	2,650	2,500
41410 Overtime	-	-	1,329
42100 FICA	45,025	45,025	46,997
42200 FRS	61,824	61,824	35,852
42300 Life & Health Ins	1,837,900	1,839,632	2,010,173
42400 Workers' Compensation	134,170	134,170	201,358
42500 Unemployment Comp	15,000	15,000	10,000
42600 Other Post-Employment Benefits	-	-	60,000
<b>Total Personnel Services</b>	<b>2,726,171</b>	<b>2,727,903</b>	<b>3,166,216</b>
55100 Office Supplies	1,450	1,450	250
55200 Operating Supplies	2,000	2,000	500
55400 Books, Pubis, Subsc, Memberships	980	980	2,200
55500 Training	37,650	37,650	40,000
<b>Total Materials &amp; Supplies</b>	<b>42,080</b>	<b>42,080</b>	<b>42,950</b>
63190 Other Professional Services	58,520	58,520	11,020
63400 Other Services	75,000	75,000	30,000
<b>Total Professional Services</b>	<b>133,520</b>	<b>133,520</b>	<b>41,020</b>
64000 Travel & Per Diem	1,350	1,350	1,350
64120 Freight & Postage Services	100	100	650
64600 Repair & Maint-Eq & Grounds	1,500	1,500	1,500
64810 Advertising	24,000	24,000	24,000
64990 Other Current Charges	25,450	25,450	25,175
<b>Total Repairs &amp; Other Services</b>	<b>52,400</b>	<b>52,400</b>	<b>52,675</b>
64400 Rentals & Leases	5,000	5,000	5,000
<b>Total Rent &amp; Insurance</b>	<b>5,000</b>	<b>5,000</b>	<b>5,000</b>
86400 Machinery & Equipment Purchase	-	-	1,000
<b>Total Capital Expenditures</b>	<b>-</b>	<b>-</b>	<b>1,000</b>
<b>GRAND TOTAL</b>	<b>2,959,171</b>	<b>2,960,903</b>	<b>3,308,861</b>

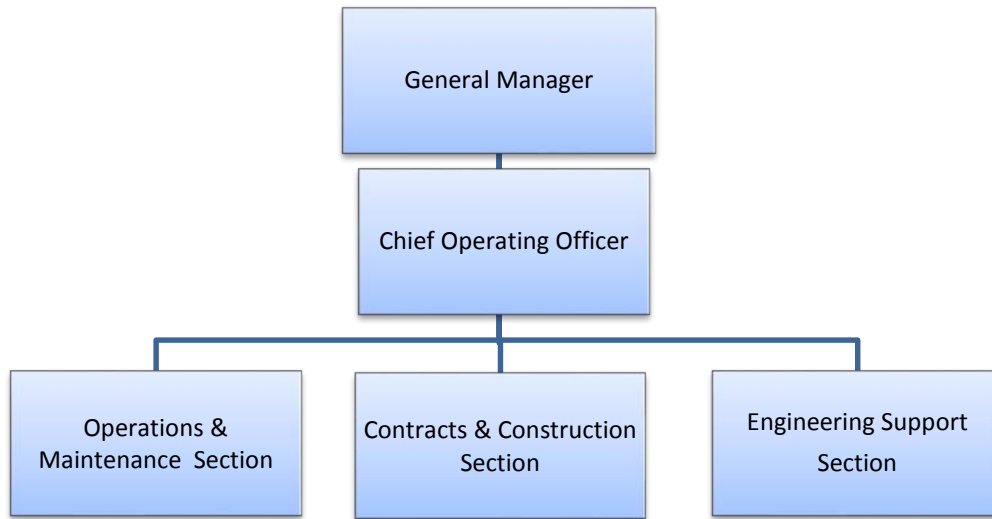
**Note 1: AMENDED BUDGET INCLUDES ADOPTED BUDGET PLUS ALL APPROVED BUDGET TRANSFERS & AMENDMENTS.**

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**Water Production Division**

The **Water Production Division** plans, designs, builds, operates, supports, monitors, and maintains Agency facilities to continuously provide high-quality water. The Group is divided into three operating sections: Operations & Maintenance, Contracts & Construction, and Engineering Support. The Operation & Maintenance Section is divided into North and South Regions.



The **Operation & Maintenance Section** is responsible for inspection, programming, testing, calibration and maintenance of critical agency equipment. This Section operates and monitors Agency facilities and maintains process control instruments. They are responsible for the Renewal and Replacement Program and administration of the Maximo CMMS system.

**Operation & Maintenance Section Goals & Objectives:**

- Complete implementation of the first phase of Maximo to include the following:
  - Complete asset hierarchy and field verification effort for initial data load
  - Develop new maintenance processes to include Planner/Scheduler function
  - Complete overhaul of preventive maintenance job plans and schedules
  - Complete training of Agency staff prior to full deployment
- Develop plan for second phase of Maximo implementation to include further inventory and linear asset functions – begin plan implementation
- Complete applicable field conditions assessments and provide output from the Renewal and Replacement computer application
- Provide design review and support the ranking effort for all Capital Improvement/Renewal & Replacement projects
- Coordinate with the Contracts & Construction Support Section on all construction projects to ensure minimal impacts to the operating system while maintaining regulatory compliance

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- Manage the consolidated wellfield production below the permit condition of 90 mgd
- Manage the non-consolidated wellfield production below the respective permit limits
- Operate the regional system and points of connection in compliance with Exhibit C and D and all federal, state and local regulations/permits
- Develop a staffing and budget plan for insourcing/outourcing operation and maintenance of the Lithia H<sub>2</sub>S facility for implementation in FY2016
- Complete transition to operation for the Keller H<sub>2</sub>S facility and examine options for long-term facility maintenance
- Assist with reservoir transition from construction to monitoring and maintenance phase

The **Contracts & Construction Section** is responsible for establishing and directing outsourced operations, contract management, construction management and inspection, buildings and grounds maintenance and fleet management, emergency preparedness, and the safety and security of agency personnel and infrastructure.

**Contracts & Construction Section Goals & Objectives:**

- Manage the Desalination Facility OM&M Contract
- Manage the Regional Water Treatment Facility OM&M Contract
- Manage the Lithia H<sub>2</sub>S Removal M&M Contract
- Manage the Keller H<sub>2</sub>S Removal M&M Contract
- Manage the Reservoir M&M Contract
- Complete construction of the H<sub>2</sub>S Removal Facility (Keller)/Pinellas Point of Connection
- Complete construction of the seawater intake pipeline repair, DE Building and second scavenger tank at the Desalination Facility
- Complete construction of arc flash mitigation at Brandon Urban Dispersed, South-Central Hillsborough, Cypress Bridge, South Pasco and Cypress Creek Wellfields
- Complete construction of Facilities Site-SWTP process piping
- Complete demolition of Section 21 surge tank and power line and replace MCCs
- Update fleet management program and purchase eight new vehicles
- Update Safety Policy and Procedure Manual with emphasis on electrical safety
- Complete a security program assessment of physical facilities and security officer service and performance
- Perform maintenance on agency office buildings and grounds

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The **Engineering Support Section** analyzes plans, schedules, budgets and designs Capital Improvement/Renewal & Replacement projects needed to operate the system. Their goal is to ensure the public has sufficient water supplies into the future.

**Engineering Support Section Goals & Objectives:**

- Manage Capital Improvement Program
- Manage energy program
- Complete update to the 2025 analysis for physical system reliability and performance during service interruptions
- Provide real estate coordination for acquisition and disposition of parcels and enforcement of existing property rights
- Provide surveying services to support Consolidated Water Use Permit and other agency needs
- C.W. Bill Young Regional Reservoir – Assist startup efforts.
- Eldridge-Wilde H<sub>2</sub>S Removal Facility (Keller) and Pinellas Point of Connection (POC) Project - Assist startup efforts.
- Eldridge-Wilde Wellfield Fiber Optic Project - Assist startup efforts.
- Cross Bar Wellfield Pumps Replacement - Assist construction efforts.
- Section 21 electrical projects- provide engineering of record support
- Cypress Creek shed replacement- complete design criteria package
- Tampa Bay Desalination Reliability Program - Support complete design criteria package and design builder procurement
- Continue to maintain standard specifications and details.
- Continue physical assessments of major transmission mains
- Continue design for remediation of arc-flash recommendations
- Maintain hydraulic model training and ready-to-respond status.



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Water Production	2015	2015	2016
	Approved Budget	Amended Budget	PApproved Budget
<b>Expenditures:</b>			
41000 Regular Salaries	4,111,910	4,111,910	4,358,174
41410 Overtime	55,427	55,427	60,252
41420 Shift Differential	33,534	33,534	71,294
41430 On-call pay	43,741	43,741	45,461
42100 FICA	321,882	321,882	344,894
42200 FRS	469,953	469,953	403,392
<b>Total Personnel Services</b>	<b>5,036,447</b>	<b>5,036,447</b>	<b>5,283,467</b>
55200 Operating Supplies	1,306,042	1,387,719	1,205,081
55400 Books, Pubis, Subsc, Memberships	172,185	172,185	38,049
55500 Training	179,220	184,720	182,207
<b>Total Materials &amp; Supplies</b>	<b>1,657,447</b>	<b>1,744,624</b>	<b>1,425,337</b>
63120 Engineering Services	1,875,000	1,900,954	2,059,000
63125 Engineering Services-Owners Allowance	-	22,948	-
63190 Other Professional Services	305,000	322,643	435,000
63400 Other Services	1,280,415	1,376,894	1,240,150
63410 O&M Agreements	15,431,569	16,466,793	15,503,620
<b>Total Professional Services</b>	<b>18,891,984</b>	<b>20,090,232</b>	<b>19,237,770</b>
64000 Travel & Per Diem	29,051	29,051	28,678
64005 Mileage & Tolls	0	0	2,100
64100 Communications Services	9,000	115,474	3,600
64120 Freight & Postage Services	22,800	24,186	16,350
64320 Water, Sewer, & Other Utilities	346,000	351,419	241,272
64600 Repair & Maint-Eq & Grounds	2,558,912	3,159,948	2,599,339
64810 Advertising	3,600	3,600	1,200
64990 Other Current Charges	9,500	22,500	14,000
64991 Permits	10,000	10,000	5,000
<b>Total Repairs &amp; Other Services</b>	<b>2,988,863</b>	<b>3,716,178</b>	<b>2,911,539</b>
64400 Rentals & Leases	7,000	64,399	6,500
64500 Insurance	215,000	246,298	215,000
<b>Total Rent &amp; Insurance</b>	<b>222,000</b>	<b>310,697</b>	<b>221,500</b>
86400 Machinery & Equipment Purchase	652,028	853,145	575,434
<b>Total Capital Expenditures</b>	<b>652,028</b>	<b>853,145</b>	<b>575,434</b>
55250 Water Quality Credit Expense	48,000	48,000	48,000
55210 Water Treatment Chemicals	11,769,355	11,697,417	10,665,878
64310 Power and Light	13,543,263	13,544,864	12,003,244
64380 Water for Resale-Variable	1,544,575	1,544,575	1,544,575
<b>Total Variable Costs</b>	<b>26,857,193</b>	<b>26,786,856</b>	<b>24,213,697</b>
<b>GRAND TOTAL</b>	<b>56,305,962</b>	<b>58,538,179</b>	<b>53,916,744</b>

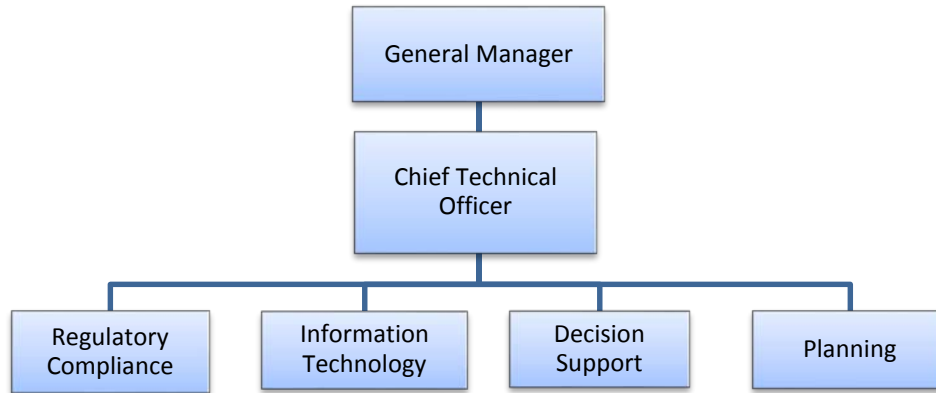
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**Science and Technology Division**

The **Science and Technology Division** leads the Agency in the efficient management of data and information to support all regulatory compliance, permitting and reporting services, water supply planning, source water assessment, decision support activities and information technology support for all business units.



**Regulatory Compliance** is responsible for all permitting, compliance and reporting services. Regulatory Compliance includes five departments: Water Use Permitting, Environmental Permitting, Monitoring and Mitigation, Tracking, and Laboratory Services. Managers from each of these departments report to the Regulatory Compliance Senior Manager who is responsible for coordination of internal regulatory compliance matters as well as interactions with state, local and federal regulatory agencies, research agencies and industry associations.

**The Water Use Permitting Department** is responsible for the acquisition and renewal of, and compliance with, agency water use permits. Department staff prepare the permit applications, the supporting documents, and the compliance reports necessary to maintain the operating capacity of our water supply facilities. Staff manage the collection of and analyze environmental and water use data to assure compliance with our water supply facility permits. They also monitor and manage wetland impacts associated with construction and/or past operation of agency facilities and infrastructure. Wetland mitigation work is performed by restoring wetlands to their original condition or enhancing wetlands to offset for an unavoidable impact. Management of lands owned by Tampa Bay Water is performed to maintain appropriate habitat for flora and fauna and promote the health of the environment.

**Water Use Permitting Department Goals & Objectives**

- Maintain compliance with water facility permits to support a reliable water supply system and financial stability for the agency.

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- Monitor environmental systems near agency facilities to minimize impacts to water resources and operate our facilities in an environmentally sustainable manner.
- Communicate results of monitoring and analyses with local governments and interested citizens to promote an understanding of our environmental systems and how best to protect them.
- Keep apprised of new regulations, standards, policies and guidance issued by relevant regulatory authorities that impact Agency water use permitting requirements.
- Work closely with Agency staff to complete all assigned strategic goals related to water use permitting requirements.
- Set strategic visions and goals for the Water Use Permitting Departments.

**The Environmental Permitting Department** is responsible for the acquisition and renewal of, and compliance with, agency environmental and operating permits (i.e., PWS, IW and NPDES). Staff prepare the permit applications, the supporting documents, and the compliance reports necessary to maintain the operating capacity of our water supply facilities. Staff inspect our facilities and analyze environmental and water use data to assure compliance with these facility permits. They also inspect and report on impacts associated with construction and/or past operation of agency facilities and infrastructure.

### **Environmental Permitting Department Goals & Objectives**

- Maintain compliance with water facility permits to support a reliable water supply system and financial stability for the agency.
- Monitor environmental systems near agency facilities to minimize impacts to water resources and operate our facilities in an environmentally sustainable manner.
- Communicate results of monitoring and analyses with local governments and interested citizens to promote an understanding of our environmental systems and how best to protect them.
- Keep apprised of new regulations, standards, policies and guidance issued by relevant regulatory authorities that impact Agency environmental permitting requirements.
- Work closely with Agency staff to complete all assigned strategic goals related to environmental permitting requirements.
- Set strategic visions and goals for the Environmental Permitting Departments.

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### Tracking Department

The **Tracking Department** Coordinator administers and manages a program related to tracking all deadlines, events and reporting conditions related to Agency compliance with regulatory requirements. The Tracking Coordinator works with staff within the Regulatory Compliance Division as well as all Agency staff to receive, review for completeness and timeliness and track all regulatory compliance requirements. The Tracking Coordinator is responsible for the review of new and existing permits and regulations to ensure that the Agency maintains complete and accurate compliance with all applicable federal, state, regional and local regulatory agencies.

### Tracking Department Goals

- 100% Agency compliance with all applicable deadlines, events and reporting conditions dictated by regulatory agencies.
- Keep apprised of new regulations, standards, policies and guidance issued by relevant regulatory authorities that impact the Agency.
- Work closely with Agency staff to complete all assigned strategic goals related to Agency compliance with all regulatory requirements.
- Set strategic vision and goals for the Tracking Department.

### Monitoring and Mitigation Department

The **Monitoring and Mitigation Department** leads and supports the Agency in complying with permit requirements related to the acquisition of hydrologic data and the resolution of domestic well complaints.

The Mitigation Coordinator oversees all aspects of domestic well complaints including working with drillers, consultants and interacting with the District. The Mitigation Coordinator manages and tracks complaints to ensure all policies and procedures are in compliance in with the Board directives, the Agency Water Use Permits, and State and local Health regulations. The coordinator works with the Senior Hydrologist to schedule, investigate and resolve domestic well complaints. This coordinator reports to the Monitoring and Mitigation Manager and is responsible for adhering to the mitigation budget.

The hydrologic technical team is responsible for all efforts related to the acquisition of hydrology data required by Agency water use and environmental permits. This includes field measurements of surface waters and monitor wells, continuous logging instruments, the maintenance of these appurtenances as well as data entry, quality control and management.

### Monitoring and Mitigation Department Goals

- Maintain Agency goal to be in full compliance at all times with deadlines, efficiencies, reporting conditions and practices.

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- Ensure applicable practices and regulation requirements are implemented and met.
- Be attentive to changes to existing conditions that may affect the Agency.
- Provide oversight and management to ensure annual budget estimates are realized.
- Keep apprised of new regulations, standards, policies and guidance issued by relevant regulatory authorities that impact monitoring and mitigation requirements.
- Complete all assigned strategic goals related to monitoring and mitigation requirements.
- Set strategic visions and goals for the Monitoring and Mitigation department.

### **Laboratory Services**

**Laboratory Services** is responsible for the collection, analyses and reporting for all water quality requirements related to Agency water use permits, environmental permits, discharge permits and drinking water permits. Typical analyses include general chemistry, metals, VOC's, DBP's, anions, and microbiological parameters. As needed, staff support a variety of Agency activities including: Operation challenges related to water quality, Member Government issues and regulatory compliance investigations. Laboratory Services also supports Agency research interests as available. The Laboratory staff maintain state and federal certification for analytical work which includes inspections, reporting and performance testing.

### **Laboratory Services Department Goals**

- Maintain Agency goal to be in full compliance at all times with deadlines, efficiencies, reporting conditions and practices.
- Perform analytical work efficiently and cost effectively.
- Ensure applicable laboratory quality control and assurance practices are implemented and met.
- Be attentive to changes including resource quality conditions that may affect the Agency.
- Provide oversight and management to ensure annual budget estimates are realized.
- Keep apprised of new regulations, standards, policies and guidance issued by relevant regulatory authorities that impact laboratory performance.
- Complete all assigned strategic goals related to laboratory.
- Set strategic visions and goals for Laboratory Services.

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**Decision Support Department**

The **Decision Support Department** is responsible for the design, implementation, and maintenance of water resources optimization tools, hydrological models, decision support systems, system performance and reliability analysis, and water demand/supply forecasting needs of the agency. It is also responsible for the preparation, review and update of critical Agency plans, monitors and evaluates water production and quantity data to provide decision support for efficient short term and long range operations and future water supply planning.

**Decision Support Department Goals**

- Provide weekly Optimized Regional Operational Plan (OROP) guidance for Water Production Division
- Prepare annual source allocation for annual budgeting process.
- Prepare weekly and monthly assessments of forecasted delivery and source allocation and provide at monthly source rotation meeting
- Provide analytical support to the Operations and Maintenance Section with analyzing source/treatment water quality issues affecting production goal.
- Develop framework for continued data collection and analysis on passive water savings within the service area and how to apply those savings to the long term demand forecast.
- Complete future needs analysis for long range water supply plan update and Board approval.
- Continue research projects which improve the Agency's understanding of the effects of climate change on assets vulnerability and long term water supplies.
- Implement development of operational level system-wide performance evaluation model.
- Complete revision to long term demand forecasting models.
- Complete annual update for long term demand forecasts for annual budgeting
- Provide as needed assistance to Water Use Permitting Department on CWUP modeling/analysis issues.
- Provide as needed support to Engineering Department.
- Coordinate with Water Use Permitting Department on all compliance issues associated with OROP.
- Coordinate with Water Use Permitting Department on strategy for Recovery Analysis – determine modeling effort and time frame.

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**Information Technology Department**

The **Information Technology Department** designs, builds, supports, manages and maintains information technology systems, applications, networks and databases to optimize agency productivity. The primary responsibilities of this department are the efficient management of the Agency's data and network systems. The department includes three functional areas: Business and Applications, SCADA Administration, and Information Technology Security and Infrastructure.

The Agency completed its Information Technology Strategic Plan which provides the roadmap for the Agency's IT goals and objectives. This plan is the result of a detailed assessment of the Agency's current information technology department.

**Information Technology Department Goals**

Business and Applications:

- Long-term Demand Forecasting Model Development Support
- Maximo Phase 2 Implementation
- Capital Improvement Plan Software - Implementation of Aurigo software
- Reservoir data collection and monitoring
- Enterprise Database Documentation
- Purchase and implement new Laboratory Information Management software

SCADA

- SCADA Upgrade of WorldView Application
- SCADA standardized renaming convention
- Conversion of serial connectivity to TCP/IP
- SCADA Master Plan

IT Security and Infrastructure

- Implement Standardized Desktop
- Restructure Network/Upgrade
- Server Upgrades
- Replace Security Network Appliances

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**Planning Department**

The **Planning Department** is responsible for Agency critical plans to include the Long-term Master Water Plan, Source Water Assessment Plan and Asset Management Plan. It is the responsibility of this department to ensure that the Agency is planning for adequate water supplies to meet future water needs.

**Planning Department Goals**

- Obtain Board approval of the Long-term Master Water Plan in 2018
- Complete the Water Supply Feasibility Program
- Update the Agency's Source Water Assessment Program
- Monitor implementation of the 2014 Asset Management Implementation Plan
- Continue to support member governments in the review and comment of land use activities which may impact Tampa Bay Water assets and provide expert testimony when requested by member governments



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Science & Technology Division	2015	2015	2016
	Approved Budget	Amended Budget	Approved Budget
<b>Expenditures:</b>			
41000 Regular Salaries	3,418,271	3,418,271	3,597,023
41410 Overtime	7,092	7,092	7,152
41430 On-call pay	2,732	2,732	2,911
42100 FICA	259,901	259,901	274,349
42200 FRS	378,543	378,543	323,689
<b>Total Personnel Services</b>	4,066,539	4,066,539	4,205,124
55100 Office Supplies	1,300	1,300	1,300
55200 Operating Supplies	421,900	426,579	319,850
55260 Computer Software Expense	150,700	157,097	151,000
55400 Books, Pubis, Subsc, Memberships	20,172	20,172	170,871
55500 Training	33,930	33,930	45,825
<b>Total Materials &amp; Supplies</b>	628,002	639,078	688,846
63120 Engineering Services	961,190	1,450,695	420,800
63130 Hydrological Services	419,000	638,595	590,000
63140 Ecological Services	3,086,693	3,563,893	3,012,179
63181 Mitigation	900,000	900,000	660,000
63182 Augmentation	305,038	337,188	257,000
63190 Other Professional Services	1,603,500	1,460,440	2,231,120
63200 Accounting & Auditing	-	-	-
63400 Other Services	376,600	810,260	326,600
<b>Total Professional Services</b>	7,652,021	9,161,070	7,497,699
64000 Travel & Per Diem	48,138	48,138	44,468
64005 Mileage & Tolls	-	-	13,000
64100 Communications Services	677,117	698,758	724,000
64120 Freight & Postage Services	5,700	5,920	5,700
64600 Repair & Maint-Eq & Grounds	190,240	190,449	165,550
64810 Advertising	6,000	6,000	1,800
64990 Other Current Charges	125	125	1,000
64991 Permits	67,934	67,934	74,500
<b>Total Repairs &amp; Other Services</b>	995,254	1,017,323	1,030,018
86400 Machinery & Equipment Purchase	478,760	479,040	427,558
86610 Software-To Amortize	295,000	581,650	470,000
<b>Total Capital Expenditures</b>	773,760	1,060,690	897,558
<b>GRAND TOTAL</b>	<b>14,115,576</b>	<b>15,944,700</b>	<b>14,319,245</b>

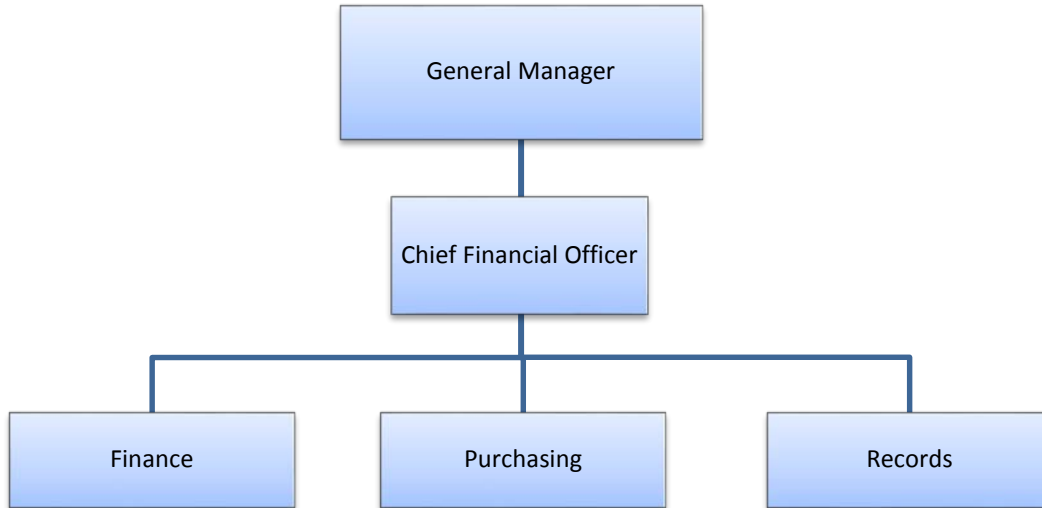
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**Finance & Administration Division**

The **Finance & Administration Division** controls finances, risk and vital records for the Agency. The Division is comprised of three departments; Finance, Purchasing and Records. This Division's goal is to maintain the Agency's financial stability and sustainability. Each department plays a key part in the four objectives developed to help achieve this goal; improve budget predictability annually, explore innovative opportunities to off-set costs and increase revenues, pursue highest bond rating available and develop a budget model that accounts for source uncertainties.



The **Finance Department** manages budget, payroll, accounts payable and receivable, assets, investments, debt management and financial compliance for the Agency. They also assist with the training and maintenance of the accounting software, MUNIS.

**Finance Department Goals & Objectives:**

- Plan, develop, organize and implement annual budget for FY 2017.
- Accurately and timely prepare payroll and payroll taxes.
- Review and verify invoices for completeness and accuracy.
- Process accurate vendor invoices within 30 days.
- Timely prepare member invoices and year-end reconciliation.
- Track Agency assets, record new assets and properly dispose of old assets.
- Review market conditions to optimize rate of return on investments.
- Record investments and document revenues, gains and losses.
- Maintain proper internal controls and support for financial statement audit.
- Continuously review upcoming FASB/GASB pronouncements.
- Properly follow financial protocol to ensure clean audits.
- Develop & implement a rating metrics plan.

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- Ensure compliance of financial and reporting activities with Agency policies, bond covenants, contractual obligations and various state and federal laws, rules and regulations.
- Provide as needed training of the accounting software, MUNIS.
- Coordinate with Information Technology Department upgrades and maintenance of accounting software, MUNIS.

The **Purchasing Department** issues, processes and administers the appropriate solicitations to ensure the availability of all materials and services to support the staff in providing timely treatment and delivery of drinking water. The Purchasing staff ensures that all procurement activities are conducted in compliance with statutes, policies and best value solutions for the Agency.

**Purchasing Department Goals & Objectives:**

- Centralize Agency procurement, contract development and processes.
- Streamline current purchase order and contract processing through the use of automated tools and standardization.
- Train purchasing and Agency staff on purchasing regulations, processes and ethics.
- Provide education and information for internal staff and suppliers through the website and intranet to include a new “FAQ” Frequently Asked Questions section.
- Update and develop new contract front-end documents.
- Identify cost savings opportunities through consolidating repetitive items into solicitations.
- Review and update inventory minimum/maximum and replenishment policies.
- Implement auto-replenishment of inventory.
- Achieve cross training of purchasing and warehouse staff to ensure continual customer service.
- Develop and implement criteria for adding and removing items from inventory, ensuring compliance with existing disposal policies and review them for potential updates.
- Oversee Agency storing and coordinate pick up of hazardous waste material according to local, state and federal regulations.

**Tampa Bay Water – 2016 Annual Budget**  
**Divisional Operating Budget Detail**

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The **Records Department** objective is to efficiently and effectively manage records through their life cycle, and to respond to public records requests and real estate inquiries for the Agency.

**Records Department Goals & Objectives:**

- Coordinate with other Departments on updating Agency policies.
- Develop and implement a process to review requirements of records stored in systems that are slated to be upgraded, replaced or taken out of use.
- Provide electronic records management training for employees.
- Provide as needed training of records software, TRIM.
- Ensure records management requirements are addressed when new or enhanced IT systems are developed or purchased.
- Review developed, purchased or enhanced systems for possibility of automating record-keeping process.
- Ensure electronic records containing confidential or exempt information are maintained, made accessible and disposed of in such a way that the information is not disclosed and, in case of disposal, cannot practicably be read or reconstructed.
- Determine completion dates of contracts and projects to improve disposition of.
- Evaluate files stored at off-site vendor to reduce volume and cost.
- Complete projects relating to real estate files, record drawings and permits.
- Minimize agency liability exposure and to contain costs related to agency insurance coverage.

**Tampa Bay Water – 2016 Annual Budget  
Divisional Operating Budget Detail**

Finance & Administration	2015	2015	2016
	Approved Budget	Amended Budget	Approved Budget
<b>Expenditures:</b>			
41000 Regular Salaries	1,044,441	1,044,441	1,065,249
41410 Overtime	4,200	4,200	3,597
42100 FICA	79,529	79,529	81,364
42200 FRS	126,810	126,810	108,718
42600 Other Post-Employment Benefits	50,000	50,000	-
<b>Total Personnel Services</b>	<b>1,304,980</b>	<b>1,304,980</b>	<b>1,258,928</b>
55100 Office Supplies	62,775	62,775	61,950
55200 Operating Supplies	251,215	251,974	247,250
55260 Computer Software Expense	6,200	6,200	1,000
55400 Books, Pubis, Subsc, Memberships	9,390	9,390	8,455
55500 Training	26,575	26,575	22,650
<b>Total Materials &amp; Supplies</b>	<b>356,155</b>	<b>356,914</b>	<b>341,305</b>
63190 Other Professional Services	236,685	276,395	225,000
63200 Accounting & Auditing	340,000	534,000	230,000
63400 Other Services	23,976	24,136	30,576
<b>Total Professional Services</b>	<b>600,661</b>	<b>834,531</b>	<b>485,576</b>
64000 Travel & Per Diem	13,725	13,725	14,100
64005 Mileage & Tolls	0	0	9,800
64120 Freight & Postage Services	82,550	93,777	73,700
64320 Water, Sewer, & Other Utilities	13,000	-	-
64600 Repair & Maint-Eq & Grounds	2,600	42,600	2,600
64700 Printing & Binding	18,500	16,152	18,500
64800 Promotional Activities	-	-	500
64810 Advertising	3,880	3,880	3,000
64990 Other Current Charges	13,575	13,575	155,000
<b>Total Repairs &amp; Other Services</b>	<b>147,830</b>	<b>183,709</b>	<b>277,200</b>
64400 Rentals & Leases	268,939	268,939	126,500
64500 Insurance	1,424,600	1,424,600	1,476,000
<b>Total Rent &amp; Insurance</b>	<b>1,693,539</b>	<b>1,693,539</b>	<b>1,602,500</b>
86100 Land Acq Cost-Purchase	25,000	25,000	25,000
86110 Land Acq Cost-Legal	5,000	5,000	2,500
86190 Land Acq Cost-Other	1,000	1,000	1,000
86400 Machinery & Equipment Purchase	5,000	5,000	5,000
<b>Total Capital Expenditures</b>	<b>36,000</b>	<b>36,000</b>	<b>33,500</b>

**Tampa Bay Water – 2016 Annual Budget  
Divisional Operating Budget Detail**

Finance & Administration - Continued	2015	2015	2016
	Approved Budget	Amended Budget	Approved Budget
77240 Interest Bonds	46,106,252	46,106,252	43,783,958
87114 Principal 2004 Bonds	11,180,000	11,180,000	11,770,000
87116 Principal 2005 Bonds	5,145,000	5,145,000	5,410,000
87117 Principal 2006 Bonds	340,000	340,000	355,000
87140 Principal 2011 Bonds	9,630,000	9,630,000	10,115,000
87141 Principal 2011A Bonds	305,000	305,000	30,000
87142 Principal 2011 B Bonds	170,000	170,000	175,000
87145 Principal 2015B Bonds	-	-	775,000
<b>Total Debt Service</b>	72,876,252	72,876,252	72,413,958
77250 Interest Facility Purchase	5,058,496	5,058,496	4,808,120
87125 Principal Payment Facility Acq.	5,173,062	5,173,062	5,423,438
<b>Total Acquisition Credits to Members</b>	10,231,558	10,231,558	10,231,558
82820 Renewal & Replacement Reserve Fund	5,645,430	6,896,387	8,018,329
82870 Capital Improvement Funding	37,923	37,923	26,995
Total Reserve Funding	5,683,353	6,934,310	8,045,324
<b>GRAND TOTAL</b>	<b>92,930,328</b>	<b>94,451,792</b>	<b>94,689,849</b>

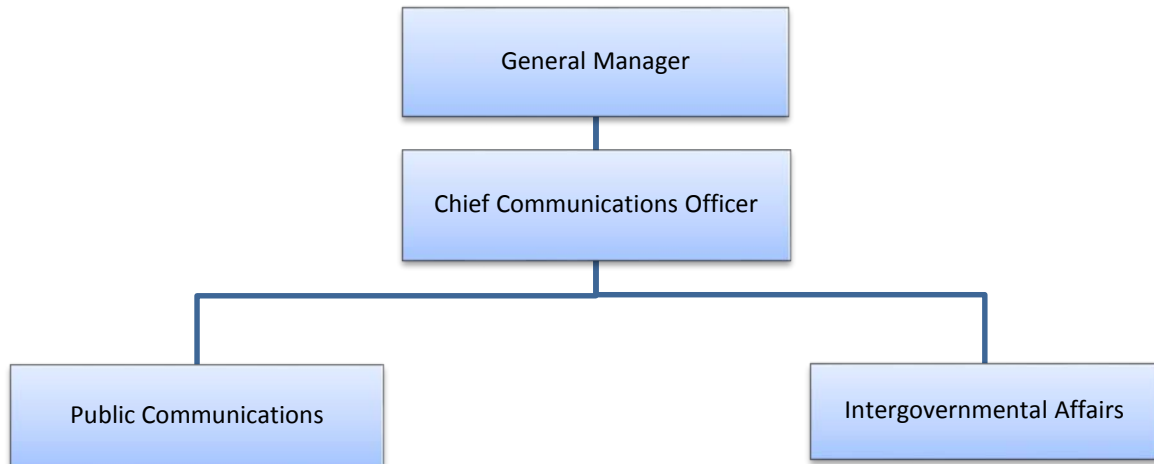
**Note 1: AMENDED BUDGET INCLUDES ADOPTED BUDGET PLUS ALL APPROVED BUDGET TRANSFERS& AMENDMENTS.**

**Tampa Bay Water – 2016 Annual Budget**  
**Divisional Operating Budget Detail**

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**Public Affairs Division**

The **Public Affairs Division** develops and executes strategic initiatives to advocate for the agency and its members; build and maintain the agency reputation; and provide education, information and outreach on agency projects, programs and policies to stakeholders. The Division includes Public Communications and Intergovernmental Affairs.



**Public Communications** develops and executes strategic communications programs that support and promote agency projects, policies and initiatives, and builds and maintains relationships with stakeholders. The department is responsible for communicating the agency’s messages through the media, the agency’s website and social media sites, speaker’s bureau presentations and through our employee communications program.

**Public Communications Department Goals & Objectives:**

- Complete the agency’s annual report to the legislature, board members, local water utility managers, water utility consultants and other interested stakeholders.
- Implement the agency’s spring dry season communications program.
- Implement the annual water wise awards program and source water protection mini grant program communications.
- Manage relationships with news media by responding to information and interview requests, preparing Agency staff for responding to news media inquiries through training and preparing key messages, and generating news story interest.
- Manage direct communications with the general public including facility tours and Speakers Bureau coordination, and in-person, telephone and email communications.
- Manage the agency’s digital/Web/online communication channels including all Agency websites, e-newsletters, social media, mobile and intranet.

**Tampa Bay Water – 2016 Annual Budget**  
**Divisional Operating Budget Detail**

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- Maintain standards to ensure that communications activities are consistent with the Amended and Restated Inter-local Agreement, Master Water Supply Contract and the Agency Strategic Plan.

**Intergovernmental Affairs** advocates for agency legislative, funding and regulatory initiatives through strategy development, relationship building, member government support and inter-agency coordination. The department is responsible for communicating agency positions with federal and state legislators, regulatory and policy agencies, and government officials and their staff. The department implements intergovernmental and grant funding initiatives and helps to implement intergovernmental and funding agreements.

**Intergovernmental Affairs Department Goals & Objectives:**

- Inform federal, state, and regional decision-makers about Tampa Bay Water accomplishments and needs. Provide them with assistance and expertise on water supply policies, water management needs, and technical topics.
- Include Tampa Bay Water’s future funding needs in federal, state, and regional water policy and infrastructure funding discussions.
- Support proposed federal and state legislation and policies which may positively affect Tampa Bay Water. Oppose proposed federal and state legislation and policies that may negatively impact Tampa Bay Water.
- Support regulatory agency policies and rules that benefit Tampa Bay Water. Oppose regulatory agency policies and rules that would be negative for Tampa Bay Water.
- Work with our member governments to understand the issues they face at the local level and to enhance their knowledge of regional water issues.
- Participate in national and state professional organization efforts to promote beneficial federal, state, and regional water policies and drinking water supply funding opportunities.



**Tampa Bay Water – 2016 Annual Budget  
Divisional Operating Budget Detail**

Public Affairs	2015	2015	2016
	Approved Budget	Amended Budget	Approved Budget
<b>Expenditures:</b>			
41000 Regular Salaries	345,373	345,373	358,614
42100 FICA	26,283	26,283	27,290
42200 FRS	49,642	49,642	51,617
<b>Total Personnel Services</b>	<b>421,298</b>	<b>421,298</b>	<b>437,521</b>
55100 Office Supplies	200	200	200
55200 Operating Supplies	4,500	4,500	3,000
55400 Books, Pubis, Subsc, Memberships	15,214	15,214	18,743
55500 Training	6,565	11,515	6,565
<b>Total Materials &amp; Supplies</b>	<b>26,479</b>	<b>31,429</b>	<b>28,508</b>
63190 Other Professional Services	210,000	254,110	260,000
63400 Other Services	30,000	45,024	30,000
<b>Total Professional Services</b>	<b>240,000</b>	<b>299,134</b>	<b>290,000</b>
64000 Travel & Per Diem	18,250	18,250	18,050
64005 Mileage & Tolls			200
64120 Freight & Postage Services	1,000	1,000	1,500
64700 Printing & Binding	22,000	22,863	22,000
64800 Promotional Activities	24,000	26,848	26,500
64810 Advertising	55,000	55,085	55,000
<b>Total Repairs &amp; Other Services</b>	<b>120,250</b>	<b>124,046</b>	<b>123,250</b>
86400 Machinery & Equipment Purchase	-	23,477	-
<b>Total Capital Expenditures</b>	<b>-</b>	<b>23,477</b>	<b>-</b>
<b>GRAND TOTAL</b>	<b>808,027</b>	<b>899,384</b>	<b>879,279</b>

**Note 1: AMENDED BUDGET INCLUDES ADOPTED BUDGET PLUS ALL APPROVED BUDGET TRANSFERS& AMENDMENTS.**

# Summary of Contracts and Resolutions

Fiscal Year 2016

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The Summary of Contracts and Resolutions section provides key contractual requirements of the Master Water Supply Contract, the Amended and Restated Interlocal Agreement, and the Master Bond Resolution.

**Tampa Bay Water - 2016 Annual Budget  
Summary of Contracts and Resolutions**

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Tampa Bay Water activities are governed primarily by two agreements with the Member Governments:

- The Amended and Restated Interlocal Agreement and
- The Master Water Supply Contract

Activities and budgetary considerations are further influenced by the Master Bond Resolution.

The fiscal year 2016 budget is developed within the framework of these agreements. This section provides key terms and conditions of the agreements.

**Amended and Restated Interlocal Agreement:**

**1. Section 2.08 - Annual Budget**

- (A) Prior to July 1 of each year, the General Manager shall prepare and deliver to the Board a balanced tentative budget for Tampa Bay Water covering its operating and other financial requirements for the ensuing fiscal year. The tentative budget shall identify (1) the rate at which Quality Water will be sold to Members Governments' during such fiscal year, and (2) the rate to be charged to Tampa for water provided through the Tampa Bypass Canal pumping facility during such fiscal year.
- (B) The Board shall publish a notice of its intention to adopt the budget and shall provide copies of the notice and tentative budget to each Member Government on or before the first publication date. The notice shall be published once a week for two consecutive weeks within thirty days of the public hearing, the last insertion of which shall appear not less than one week prior to the date set by the Board for the hearing on the budget and rates.
- (C) At the time, date and place specified in the notice, the Board shall conduct a public hearing and thereafter may consider adoption of the budget and rates with any amendments it deems advisable. Unless otherwise authorized by the Board, the final budget and rates shall be adopted by August 1.

**2. Section 3.03 - Obligation to meet Water Needs**

This section includes the following key requirements:

- (A) The Agency has the absolute and unequivocal obligation to meet the Quality Water needs of the Member Governments.
- (B) The Agency shall oppose any permit, order, rule or other regulatory effort to reduce or limit the permitted capacity of its Water Supply Facilities, unless the reduction or limitation results from an agreement to which all Member Governments are parties, or the reduction or limitation will not become effective until adequate Replacement Capacity has been placed in service.
- (C) The General Manager shall actively monitor the relationship between the quantity of Quality Water actually delivered by the Authority to the Member Governments and the aggregate permitted capacity of the Agency's production facilities.

**Tampa Bay Water - 2016 Annual Budget  
Summary of Contracts and Resolutions**

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1. If the actual delivery of Quality Water to the Members exceeds 75 percent of the aggregate permitted capacity of the Agency's production facilities, the General Manager shall report to the Board and recommend that the Agency initiate preparation of Primary Environmental Permit applications necessary to ensure an adequate supply.
2. If the actual delivery of Quality Water to the Members exceeds 85 percent of the aggregate permitted capacity of the Agency's production facilities, the General Manager shall report to the Board and recommend that the Agency file Primary Environmental Permit applications necessary to ensure an adequate supply.

(D) It is acknowledged and agreed that the Water delivered by the Authority (1) from the South Central Hillsborough Wellfield to the Lithia Water Treatment Plant, (2) from the Starkey and North Pasco Wellfields to the Maytum Water Treatment Plant, (3) from the Starkey and North Pasco Wellfields to the Little Road Water Treatment Plant, (4) from the Eldridge-Wilde Wellfield to the Keller Water Treatment Plant, (5) from the Cosme-Odessa Wellfield to the Cosme Water Treatment Plant, (6) from the Morris Bridge Wellfield to the Morris Bridge Water Treatment Plant, and (7) from the Tampa Bypass Canal to the Hillsborough River Reservoir, will not meet the standards for Quality Water.....the Member Governments receiving such water...will be entitled to a credit against the uniform rate.

**3. Section 3.04 - Uniform Rate**

Tampa Bay Water shall establish a single uniform rate for the sale of quality water to Member Governments subject to the following adjustments:

- (1) Actual direct costs to perform the additional treatment required to meet the standard for quality water;
- (2) If a Member Government requests Tampa Bay Water provide other treatment beyond what is necessary to meet quality water standards;
- (3) Credits for transferred assets assuming each Member has elected to receive a credit, inclusive of interest, shall be applied against the water rate over 30 years;

The rate for the sale of quality water to Member Governments shall be established for each fiscal year in Tampa Bay Water's annual budget.

**4. Section 3.08(D) - Surface Water Sources**

Notwithstanding the provisions of Section 3.04 hereof, the rate charged to City of Tampa for water provided through the Tampa Bypass Canal Pumping Facility will be equal to Tampa Bay Water's direct cost and allocated overhead.

**Tampa Bay Water - 2016 Annual Budget  
Summary of Contracts and Resolutions**

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**Master Water Supply Contract:**

**1. Section 8 - Authority's Agreement to Provide Water Service**

This section of the contract provides that:

(A) The Agency shall sell and deliver sufficient Quality Water to the Member Governments to meet their needs and the Member Governments shall purchase and receive the Quality Water delivered.

(B) The Agency shall be in default under the contract if it fails to supply the Quality Water needs of the Member Governments, except when due to force majeure.

**2. Section 13-Rate**

The following excerpts are fundamental to the budget process.

(B) Rates in effect each fiscal year shall be sufficient to pay the annual estimate established by Tampa Bay Water. Monthly charges for such water service are based on the rate approved by Tampa Bay Water and total volume of quality water delivered to such Member Governments by Tampa Bay Water.

(C) The rate to be charged may include the following components:

- Operation, Maintenance, and Administrative costs;
- Debt service charges;
- Renewal and Replacement charges;
- Bond coverage costs;
- Capital Improvement charges;
- Operating Reserve Funds;

(D) The Member Governments agree that Tampa Bay Water may establish a rate stabilization fund. Operation, Maintenance and Administrative costs and/or Operating Reserve Funds may be utilized by Tampa Bay Water to fund such Rate Stabilization Fund.

(E) Annual True-up: Following the end of each fiscal year, an annual adjustment in the fixed costs component of bills paid during that fiscal year shall be computed on the basis of:

- The fixed costs which are provided in the Annual Estimate in effect during the fiscal year then ended
- The actual amount of quality water delivered to each of the Member Governments during the fiscal year then ended

(F) Carry Forward: Any unencumbered monies of Tampa Bay Water present at the end of the fiscal year shall be budgeted by Tampa Bay Water for the succeeding fiscal year and shall be utilized for the same purposes for which rates are charged by Tampa Bay Water.

**Tampa Bay Water - 2016 Annual Budget  
Summary of Contracts and Resolutions**

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**Monthly Billing**

In accordance with the Master Water Supply Contract provisions, Tampa Bay Water bills the Member Governments for the Quality Water delivered to them on a monthly basis. The monthly bill could include Fixed costs, Variable costs, annual credits to Member Governments for the purchase of water supply facilities by Tampa Bay Water, water quality credits for treatment of Hydrogen Sulfide, and any other credit(s)/surcharge(s) as authorized by the Board.

A brief discussion of how the Fixed Costs, Variable Costs, and the costs associated with the water delivered to Tampa from the Tampa Bypass Canal are calculated and billed to the Member Governments is presented below:

**Fixed Costs**

Each Member Government is required to pay monthly an amount equal to one-twelfth of the Fixed Costs provided in the Annual Estimate times “A” divided by “B”, where “A” equals the amount of Quality water delivered to such Member Government during the previous fiscal year and “B” equals the total amount of Quality Water delivered to all Member Governments during such fiscal year.

<b>Monthly Fixed Costs Billed to the Member Government</b>	=	<b>Total Fixed Costs</b>  12	X	$\frac{\text{Amount of Quality Water consumed by Member Government during the prior Fiscal Year (A)}}{\text{Total Amount of Quality Water consumed by all Member Governments during the prior Fiscal Year (B)}}$
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As indicated above, Tampa Bay Water allocates the Fixed Costs to each Member Government based on that Member Government’s share of the total Quality Water delivered to all Member Governments during the prior fiscal year. The annual Fixed Costs allocated to the Member Government is billed in twelve equal monthly installments. Following the end of each fiscal year, Tampa Bay Water is required to perform an annual true-up of the budgeted Fixed Costs components of bills paid during that fiscal year based on the actual amount of Quality Water delivered to each Member Government during the fiscal year then ended.

**Variable Costs**

Each Member Government is required to pay monthly an amount equal to the amount of Quality Water consumed by the Member Government during the prior month times the Uniform Rate (\$/1,000 gallons) then in effect times “C” divided by “D”, where “C” equals the Variable Costs and “D” equals the Annual Estimate (the net annual revenue requirements for the purposes of billing) then in effect.

<b>Monthly Variable Costs Billed to the Member Government</b>	=	<b>Amount of Monthly Quality Water Consumed Prior Month</b>	X	<b>Uniform Rate</b>	X	$\frac{\text{Total Variable Costs (C) [total variable costs included in the approved annual budget for the current Fiscal Year]}}{\text{Total Annual Estimate (D) [the net annual revenue requirements for the current Fiscal Year]}}$
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**Tampa Bay Water - 2016 Annual Budget  
Summary of Contracts and Resolutions**

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Since the budgeted Variable Costs are allocated to the Member Governments based on their actual consumption of Quality Water, there is no requirement in the Interlocal Agreement or the Master Water Supply Contract to perform an annual true-up of Variable Costs at the end of the fiscal year. Tampa Bay Water recognizes that the actual annual revenues (Variable Costs element only) may be different from the budgeted Variable Costs, if the actual amount of Quality Water delivered to the Member Governments for the given fiscal year is different from the projected amount of Quality Water used for the rate calculation for such fiscal year. Any overage or shortage in actual revenues as a result of this contractual provision is not expected to be material since the Variable Costs are expected to change in direct proportion to changes in the volume of Quality Water delivered to the Member Governments.

**Surface Water Source(s)**

In accordance with Section 3.08(D) of the Interlocal Agreement, Tampa Bay Water is required to charge a separate rate for water delivered to the City of Tampa from the Tampa Bypass Canal facility. The rate charged to the City of Tampa is equal to Tampa Bay Water's direct cost plus Allocated Overhead associated with the Tampa Bypass Canal facility and is established as part of the annual budget development process. A unit rate (\$/1,000 gallons) is determined for the water delivered to the City of Tampa from the Tampa Bypass Canal facility, based on the projected quantity of water to be delivered to the City of Tampa from the Tampa Bypass Canal facility during the fiscal year. Tampa Bay Water bills the City of Tampa on a monthly basis for the actual amount of water consumed from the Tampa Bypass Canal facility for the prior month.

In summary, a wholesale water rate is calculated as part of the annual estimate. Each Member pays their pro-rata share of Fixed and Variable Costs based on their water usage. Those Member Governments facing reductions in permitted supply or rapid population growth will share regionally the cost of developing new water supplies. Voting rights are equitably balanced among the three counties.

**Tampa Bay Water - 2016 Annual Budget  
Summary of Contracts and Resolutions**

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**Master Bond Resolution 98-07TBW**

**Section 1.01 Definitions.**

**“Reserve Account Requirement”** shall mean, as of any date of calculation for the Reserve Account, an amount equal to the lesser of (1) Maximum Annual Debt Service for all Outstanding Bonds, (2) 125% of the average Annual Debt Service for all Outstanding Bonds, or (3) the maximum amount allowed to be funded from proceeds of tax-exempt obligations and invested at an unrestricted yield pursuant to the Code; provided, however, the Issuer may establish by Supplemental Resolution a different Reserve Account Requirement for a subaccount of the Reserve Account which secures a Series of Bonds pursuant to Section 4.05(B)(4) hereof. In computing the Reserve Account Requirement in respect of a series of Bonds that constitutes Variable Rate Bonds, the interest rate on such Bonds shall be assumed to be (A) if such Variable Rate Bonds have been Outstanding for at least 24 months prior to the date of calculation, the highest average interest rate borne by such Variable Rate Bonds for any 30-day period, and (B) if such Variable Rate Bonds have not been Outstanding for at least 24 months prior to the date of calculation, the Bond Buyer Revenue Bond Index most recently published prior to the time of calculation. The time of calculation for Variable Rate Bonds shall be each March 1.

**Section 1.04. Findings.**

(L) That the estimated Gross Revenues to be derived in each year hereafter from the operation of the System will be sufficient to pay all the Operating Expenses, the principal of and interest on the Bonds to be issued pursuant to this Resolution, as the same become due and all other payments provided for in this Resolution.

**Section 4.04. Creation of Funds and Accounts.** The Issuer covenants and agrees to establish with a bank, trust company or such other entity in the State, which is eligible under the laws of the State to be a depository for its funds the following funds and accounts:

- (A) The “Tampa Bay Water Utility System Revenue Fund.” The Issuer shall maintain two separate accounts in the Revenue Fund: The “Revenue Account” and the “Rate Stabilization Account.”
- (B) The “Tampa Bay Water Utility System Operation, Maintenance and Administration Fund.”
- (C) The “Tampa Bay Water Utility System Sinking Fund.” The Issuer shall maintain four separate accounts in the Sinking Fund: the “Interest Account,” the “Principal Account,” the “Term Bonds Redemption Account” and the “Reserve Account.”
- (D) The “Tampa Bay Water Utility System Renewal and Replacement Fund.”
- (E) The “Tampa Bay Water Utility System Capital Improvement Fund.”
- (F) The “Tampa Bay Water Utility System Utility Reserve Fund.”
- (G) The “Tampa Bay Water System Rebate Fund.”

**Section 4.06 Capital Improvement Fund.** The Issuer shall deposit into the Capital Improvement Fund all Capital Improvement Charges as received and such Capital Improvement Charges shall be accumulated in the Capital Improvement Fund and applied by the Issuer in the following manner and order of priority:



**Tampa Bay Water - 2016 Annual Budget  
Summary of Contracts and Resolutions**

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(A) For the payments on or prior to each principal and interest payment date (in no event earlier than the 25<sup>th</sup> day of the month next preceding such payment date) into the Interest account, the Principal Account and the Term Bonds Redemption Account when the moneys therein are insufficient to pay the principal of and interest on the Bonds coming due, but only to the extent moneys transferred from the Utility Reserve Fund, the Reserve Account, the Renewal and Replacement Fund and the Rate Stabilization Account for such purpose pursuant to Section 4.05(B)(7), 4.05(B)(4), 40.5(B)(5) and 4.08, respectively, hereof shall be inadequate to fully provide for such insufficiency. Any moneys transferred to the aforementioned accounts described above shall be repaid from Gross Revenues and described in Section 4.05(B)(7) hereof on or prior to the date such amounts are needed for the purposes described in Sections 4.06(B) hereof.

**Section 5.03. Annual Budget.** The issuer shall prepare and adopt, prior to the beginning of each Fiscal Year, an Annual Budget in accordance with any applicable law. No expenditure for Operating Expenses of the System shall be made in any Fiscal Year in excess of the aggregate amount provided for Operating Expenses in the Annual Budget, (A) without a written finding and recommendation by an Authorized Issuer Officer, which finding and recommendation shall state in detail the purpose of and necessity for such increased expenditures, and (B) until the Governing Body shall have approved such finding and recommendation by resolution.

**Section 5.04. Rates.** For the Fiscal Year commencing October 1, 1998 and for each Fiscal Year thereafter, the Issuer shall fix, establish, maintain and collect such rates, fees and charges for the product, services and facilities of its System, and revise the same from time to time, whenever necessary, so as always to provide in each Fiscal Year:

- (A) Net Revenues, together with the Fund Balance, equal to at least 125% of the Annual Debt Service becoming due in such Fiscal Year; provided
- (B) Such Net Revenues shall be adequate at all times to pay in each Fiscal Year at least 100% of (1) the Annual Debt Service becoming due in such Fiscal Year, (2) any amounts required by the terms hereof to be deposited in the Reserve Account or with any issuer of a Reserve Account Letter of Credit or Reserve Account Insurance Policy in such Fiscal Year, (3) any amounts required by the terms hereof to be deposited in the Renewal and Replacement Fund in such Fiscal Year, and (4) any amounts required by the terms of Section 4.06(A) hereof to be repaid to the Capital Improvement Fund in such Fiscal Year.

Such rates, fees or other charges shall not be so reduced so as to be insufficient to provide adequate Net Revenues for the purposes provided therefore by this Resolution.

**Section 5.11. Enforcement of Charges.** The Issuer shall promptly bill the Member Governments for water consumed by such Member Governments in accordance with the terms of the Master Water Supply Contract. The Issuer shall compel the prompt payment of rates, fees and charges imposed in connection with the System, and to that end will vigorously enforce all of the provisions of the Master Water Supply Contract and any other agreement in may enter into for the supply of water.

**Section 5.12. Amendments to Interlocal Agreement and Master Water Supply Contract.** The Issuer agrees that it will not make any amendment or modification to the Master Water Supply Agreement which, in its judgment, will materially adversely affect the rights or security of the Holders of the Bonds. The Issuer acknowledges that the Member Governments agreed in the Master Water

**Tampa Bay Water - 2016 Annual Budget  
Summary of Contracts and Resolutions**

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Supply Contract not to make any amendment to the Interlocal Agreement which would materially adversely affect the rights or security of the Holders of the Bonds. The Issuer agrees to enforce the aforementioned provisions in order to protect the rights and security of the Bondholders.

**Section 5.14. Consulting Engineers.** The Issuer shall at all times employ Consulting Engineers, whose duties shall be to make any certificates and perform any other acts required or permitted of the Consulting Engineers under this Resolution, and also to review the construction and operation of the System, to make an inspection of the System at least once every three years, and to submit to the Issuer a report with respect to each such inspection with recommendations as to the proper maintenance, repair and operation of the System during the ensuing Fiscal Year(s), including recommendations for expansion and additions to the System to meet anticipated service demands and an estimate of the amount of money necessary for such purposes. The Consulting Engineers shall annually recommend the amount of the Renewal and Replacement Fund Requirement. Copies of such reports, recommendations and estimates made as herein above provided shall be filed with the Issuer for inspection by Bondholders, if such inspection is requested, and shall be mailed to any Member Government requesting the same.

## Appendix

## Fiscal Year 2016

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The Appendix includes a schedule of key dates for the budget process for fiscal years 2016 and 2017. It also provides demographic and statistical information for Tampa Bay Water's service area, and information to assist the Member Governments in the planning of their annual budgets.

**Tampa Bay Water – 2016 Annual Budget  
Appendix**

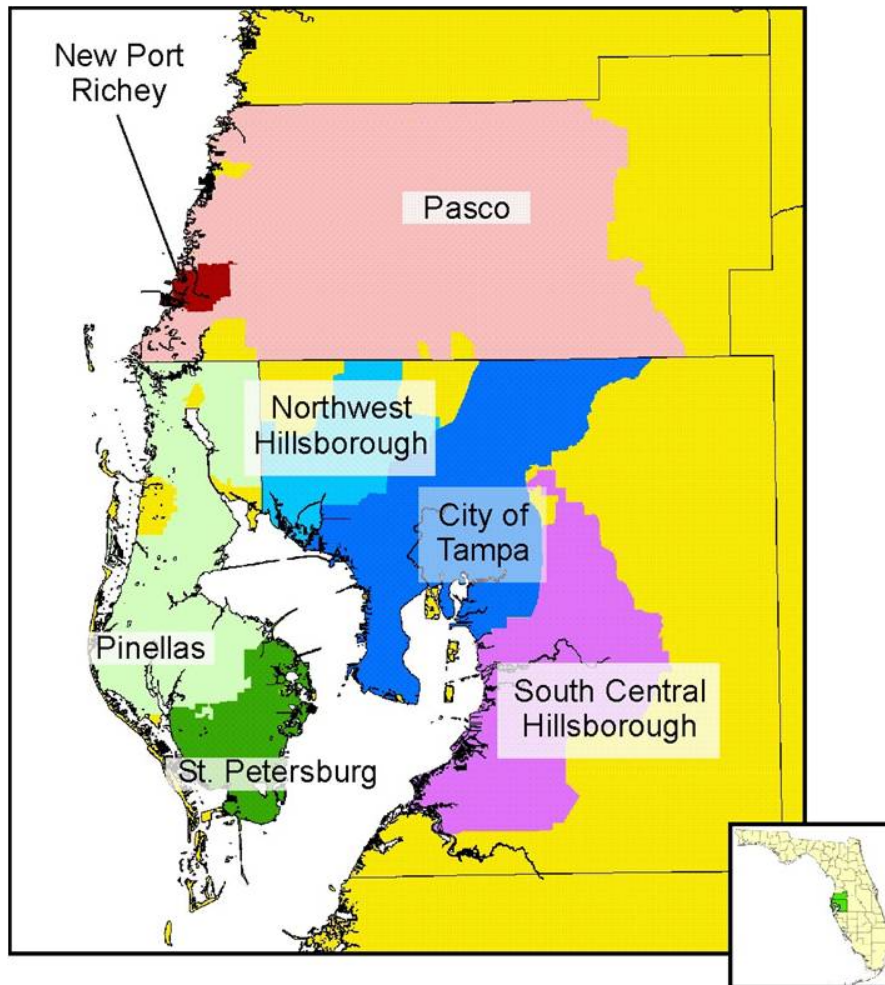
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**Tampa Bay Water Service Area Demographics and Statistical Information**

Development of Tampa Bay Water’s annual budget is largely based on member annual and monthly water demand forecasts. Demographic and statistical information is used to forecast annual and long-term water demand for the Tampa Bay Water service area.

Tampa Bay Water currently divides its service area into seven geographic sub-areas associated with distinct members:

- City of New Port Richey
- Pasco County
- Pinellas County
- City of St. Petersburg
- Northwest Hillsborough and South Central Hillsborough<sup>1</sup>
- City of Tampa

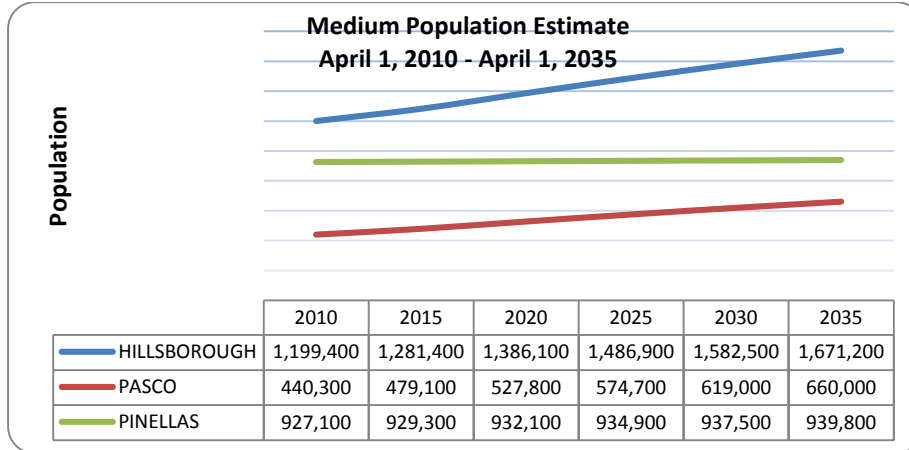


<sup>1</sup> Northwest Hillsborough and South Central Hillsborough are parts of the Hillsborough County service area but are geographically split by the City of Tampa service area.

**Tampa Bay Water – 2016 Annual Budget  
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**Population**

Part of forecasting water demand for Tampa Bay Water’s service area involves obtaining population growth projections for the region.



Source: B.E.B.R.

The medium county-level population projection from the Bureau of Economic and Business Research (BEBR) at the University of Florida, show relatively high population growth in Pasco and Hillsborough Counties and no significant growth in Pinellas County, which affects regional water demand forecasts.

**Households**

Tampa Bay Water also utilizes housing information to estimate growth and to determine drivers of residential users. Census and housing information obtained from BEBR further illustrates the high growth in Hillsborough and Pasco Counties, while growth in Pinellas has declined.

	Census April 1, 1990		Census April 1, 2000		Estimate April 1, 2009	
	Households	Average Household Size	Households	Average Household Size	Households	Average Household Size
FLORIDA	5,134,869	2.46	6,338,075	2.46	7,477,339	2.45
Hillsborough	324,872	2.51	391,357	2.51	465,407	2.53
Pasco	121,674	2.26	147,567	2.30	187,319	2.31
Pinellas	380,635	2.18	414,974	2.17	422,483	2.15
Numerical change						
Households						
	1990–2000	2000–2009	Average Household Size			
			1990–2000	2000–2009		
FLORIDA	1,203,206	1,139,264	0.00	-0.01		
Hillsborough	66,485	74,050	0.00	0.02		
Pasco	25,893	39,752	0.04	0.01		
Pinellas	34,339	7,509	-0.01	-0.02		
Percentage change						
Households						
	1990–2000	2000–2009	Average Household Size			
			1990–2000	2000–2009		
FLORIDA	23.4	18.0	0.0	-0.4		
Hillsborough	20.5	18.9	0.0	0.8		
Pasco	21.3	26.9	1.8	0.4		
Pinellas	9.0	1.8	-0.5	-0.9		

Source: B.E.B.R.

**Tampa Bay Water – 2016 Annual Budget  
Appendix**

**Climate Data**

One of the many elements used in determining long term demand forecasts is meteorological information. Tampa Bay Water uses historical weather data, including daily rainfall totals and maximum daily temperatures that are collected from multiple National Oceanic and Atmospheric Administration (NOAA), United States Geological Survey (USGS), and Tampa Bay Water weather recording stations dispersed across the Tampa Bay Water service area. The chart below shows the points that were used to develop Tampa Bay Water’s Long Term Demand Forecast Model.

Weather Stations Used In Modeling

Station	Owner	County	Beginning of Period of Record	Rainfall Data Used For Modeling Period?	Temperature Data Used For Modeling Period?	Rainfall Data Used for Long-Term Weather?	Temperature Data Used for Long-Term Weather?
S21-21-10	TBW	Hillsborough	10/1/1984	✓			
CYB-CY-7 RAIN	TBW	Pasco	10/4/1988	✓			
CYB-TOT RAIN	TBW	Pasco	2/21/1986	✓			
CYC-C-3 RAIN	TBW	Pasco	9/1/1976	✓			
CYC-N.GATE RAIN	TBW	Pasco	11/1/1985	✓			
CYC-PLANT RAIN	TBW	Pasco	5/2/1976	✓			
NEB-DAYS INN RAIN	TBW	Hillsborough	10/1/1988	✓			
NOP-NP-RAIN	TBW		4/9/1990	✓			
NWH-NW-5 RAIN	TBW	Hillsborough	10/1/1983	✓			
SCH-SC-1 RAIN	TBW	Hillsborough	3/1/1985	✓			
STK-14 RAIN	TBW	Pasco	10/4/1988	✓			
STK-RAIN EAST	TBW	Pasco	2/13/1986	✓			
STK-WEST - STK PLANT	TBW	Pasco	7/1/1982	✓			
KPIE (St. Pete/Clearwater Airport)*	NOAA	Pinellas	1/1/1893	✓			
KSPG (Albert Whitted Airport)	NOAA	Pinellas	7/1/1966	✓	✓	✓	✓
KTPA (Tampa International Airport)	NOAA	Hillsborough	1/2/1933	✓	✓	✓	✓
MB RN USGS	USGS	Hillsborough	10/15/1993	✓			
St Leo Rainfall	NOAA	Pasco	1/1/1902	✓	✓	✓	✓
Ruskin NWS	NOAA	Hillsborough	11/1/2001	✓			
Tarpon Springs Rainfall	NOAA	Pinellas	7/3/1948	✓	✓	✓	✓
Plant City#	NOAA	Hillsborough	2/1/1903 ^		✓		✓

\* Despite the long period-of-record, KPIE could not be used as a long-term station because of a significant gap of missing records spanning 6/30/1966 to 10/23/2002.

# Plant City was not used in developing modeling-period and long-term rainfall estimations because it was located outside the service area, while other rainfall stations were available within the eastern service area. However, Plant City was used in developing modeling-period and long-term temperature estimations because it was the only station near the southeastern service area with temperature data covering both the modeling period and the long-term weather period.

^ The earliest month with complete temperature data for Plant City was February 2003.

## Tampa Bay Water – 2016 Annual Budget Appendix

The following climatic information is based on data collected from weather stations used in Tampa Bay Water’s Long Term Demand Forecast Model.

Long-Term Normal Weather Values by Water Demand Planning Area (WDPA) and Month-Of-Year							
Mean Maximum Daily Temperature							
	Pasco Co.	New Port Richey	NW Hillsborough Co.	SC Hillsborough Co.	City of Tampa	Pinellas Co.	City of St. Petersburg
Jan	70.919	70.346	70	70.249	70.049	69.849	68.81
Feb	73.8	72.969	72.606	72.944	72.672	72.454	71.422
Mar	78.113	77.328	76.947	77.201	76.993	76.783	75.669
Apr	82.844	81.799	81.585	81.817	81.655	81.397	80.425
May	88.518	87.216	87.27	87.447	87.387	87.009	86.096
Jun	90.968	90.34	90.078	90.138	90.068	89.993	89.366
Jul	91.795	91.409	90.863	90.972	90.784	90.913	90.477
Aug	91.624	91.471	90.838	90.8	90.717	90.858	90.155
Sep	90.013	89.878	89.357	89.268	89.26	89.308	88.448
Oct	85.036	84.905	84.477	84.395	84.41	84.385	83.456
Nov	79.133	78.945	78.543	78.516	78.507	78.412	77.351
Dec	73.035	72.871	72.357	72.498	72.328	72.295	71.382
<b>Annual Avg.</b>	<b>82.983</b>	<b>82.456</b>	<b>82.077</b>	<b>82.187</b>	<b>82.069</b>	<b>81.971</b>	<b>81.088</b>
Mean Number of 0.01-inch Rainy Days							
	Pasco Co.	New Port Richey	NW Hillsborough Co.	SC Hillsborough Co.	City of Tampa	Pinellas Co.	City of St. Petersburg
Jan	7.542	7.877	6.869	6.627	6.59	6.945	6.164
Feb	4.994	6.394	5.532	5.378	5.343	5.741	5.211
Mar	6.42	6.794	6.156	5.952	5.982	6.18	5.495
Apr	4.104	4.543	4.158	3.997	4.066	4.14	3.521
May	4.566	4.112	4.364	4.329	4.437	4.159	3.79
Jun	12.191	10.572	10.721	10.587	10.705	10.393	9.803
Jul	15.096	14.548	14.088	13.893	13.93	13.993	13.288
Aug	15.34	14.302	14.562	14.411	14.611	14.246	13.515
Sep	11.745	11.527	11.364	11.352	11.302	11.39	11.409
Oct	5.462	5.594	5.264	5.123	5.174	5.243	4.733
Nov	4.653	5.288	4.592	4.4	4.419	4.662	4.003
Dec	5.265	5.309	5.045	4.976	4.973	5.024	4.68
<b>Annual</b>	<b>97.378</b>	<b>96.86</b>	<b>92.715</b>	<b>91.025</b>	<b>91.532</b>	<b>92.116</b>	<b>85.612</b>
Mean Number of 1-inch Rainy Days							
	Pasco Co.	New Port Richey	NW Hillsborough Co.	SC Hillsborough Co.	City of Tampa	Pinellas Co.	City of St. Petersburg
Jan	0.847	0.768	0.652	0.626	0.615	0.646	0.547
Feb	0.737	0.616	0.636	0.642	0.636	0.623	0.644
Mar	1.156	1.247	0.98	0.947	0.905	1.028	0.949
Apr	0.517	0.454	0.408	0.405	0.392	0.405	0.386
May	0.559	0.58	0.538	0.534	0.526	0.55	0.547
Jun	1.949	1.55	1.53	1.524	1.511	1.485	1.426
Jul	1.748	1.949	1.694	1.619	1.628	1.72	1.474
Aug	2.288	2.155	2.244	2.328	2.264	2.297	2.691
Sep	1.508	1.703	1.703	1.753	1.709	1.776	2.03
Oct	0.612	0.641	0.608	0.582	0.6	0.594	0.488
Nov	0.312	0.385	0.325	0.309	0.31	0.335	0.283
Dec	0.396	0.437	0.382	0.369	0.366	0.391	0.356
<b>Annual</b>	<b>12.629</b>	<b>12.485</b>	<b>11.7</b>	<b>11.638</b>	<b>11.462</b>	<b>11.85</b>	<b>11.821</b>
Total Monthly Rainfall							
	Pasco Co.	New Port Richey	NW Hillsborough Co.	SC Hillsborough Co.	City of Tampa	Pinellas Co.	City of St. Petersburg
Jan	3.145	3.011	2.687	2.644	2.585	2.713	2.58
Feb	2.235	2.277	2.15	2.108	2.112	2.156	2.025
Mar	3.388	3.322	2.973	2.962	2.864	3.04	3.053
Apr	1.704	1.72	1.58	1.55	1.539	1.585	1.471
May	2.085	1.96	1.94	1.946	1.931	1.92	1.891
Jun	6.435	5.336	5.451	5.457	5.447	5.293	5.21
Jul	6.873	6.931	6.532	6.454	6.415	6.58	6.338
Aug	7.534	7.498	7.435	7.471	7.412	7.501	7.715
Sep	5.982	6.367	6.183	6.328	6.132	6.435	7.249
Oct	2.13	2.315	2.009	1.964	1.926	2.077	1.973
Nov	1.7	1.799	1.496	1.458	1.41	1.552	1.464
Dec	1.681	1.875	1.71	1.703	1.667	1.768	1.778
<b>Annual</b>	<b>44.892</b>	<b>44.411</b>	<b>42.146</b>	<b>42.045</b>	<b>41.44</b>	<b>42.62</b>	<b>42.747</b>

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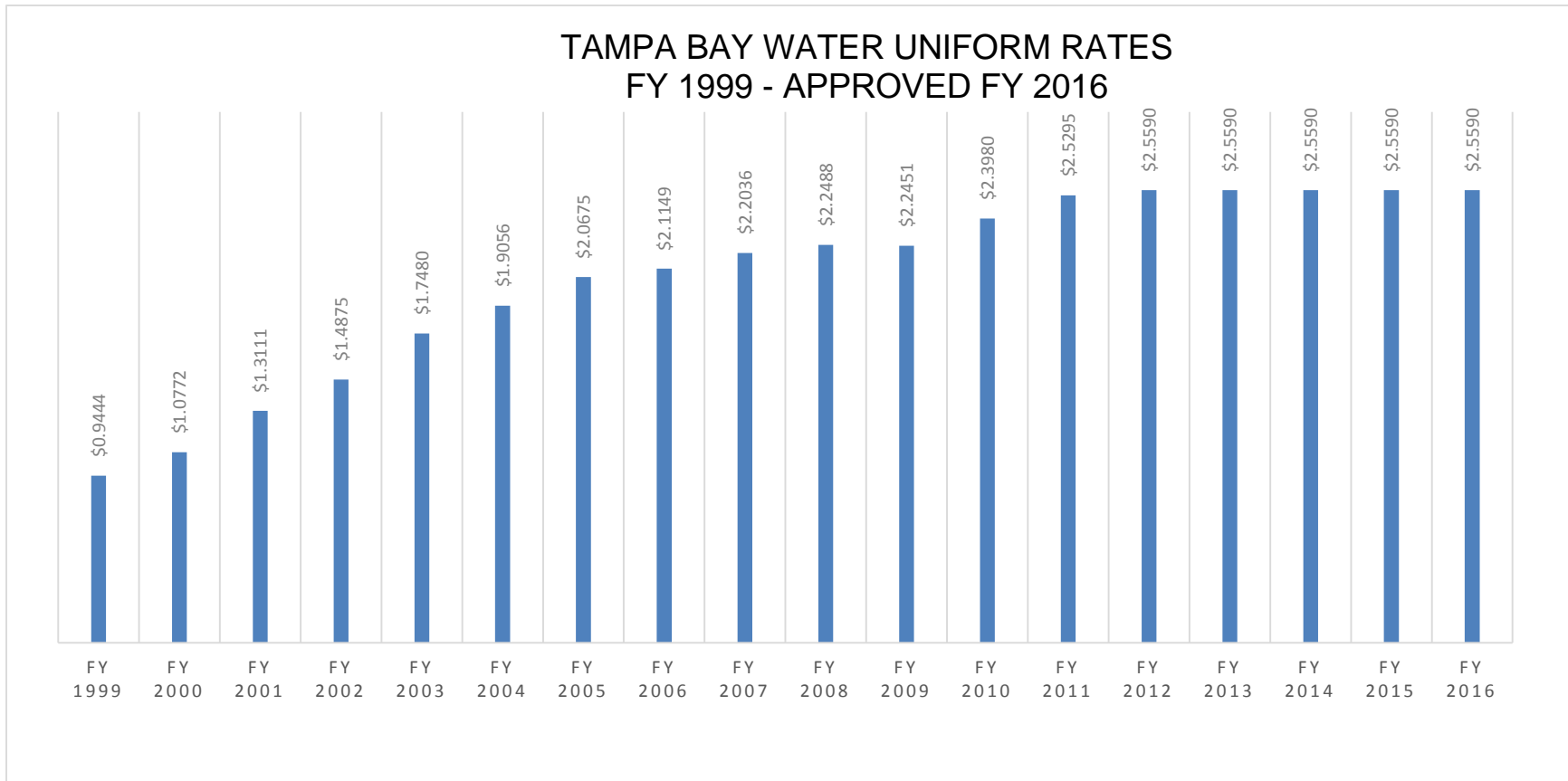
POTENTIAL MEMBER YEAR END TRUE-UP  
WITH YEAR-TO-DATE DEMAND  
FISCAL YEAR 2015 - THROUGH APRIL 30, 2015

	Monthly Demand								
	ST PETE	PINELLAS	TAMPA (Morris Br)	HILLSBOROUGH	PASCO	NEW PORT RICHEY	TOTALS		
Oct-14	869.22	1,542.90	-	1,631.40	751.44	89.47	4,884.43		
Nov-14	827.75	1,492.80	-	1,588.37	713.27	88.06	4,710.25		
Dec-14	847.37	1,501.76	-	1,540.73	695.11	84.24	4,669.21		
Jan-15	855.35	1,522.50	-	1,518.31	679.53	87.88	4,663.57		
Feb-15	768.63	1,388.22	-	1,342.70	616.29	80.64	4,196.48		
Mar-15	869.29	1,638.74	-	1,620.63	772.79	95.49	4,996.94		
Apr-15	871.74	1,627.26	-	1,642.59	780.80	90.63	5,013.02		
May-15							-		
Jun-15							-		
Jul-15							-		
Aug-15							-		
Sep-15							-		
<b>FY 14 TOTAL</b>	10,111.18	18,594.22	-	18,609.46	8,953.35	1,046.58	57,314.79	157.03	MGD
<b>FY 15 YTD</b>	5,909.35	10,714.18	-	10,884.73	5,009.23	616.41	33,133.90	156.29	MGD
<b>+ / -</b>	(4,201.83)	(7,880.04)	-	(7,724.73)	(3,944.12)	(430.17)	(24,180.89)	(0.73)	MGD

<b>FY15 YTD MGD</b>	27.87	50.54	-	51.34	23.63	2.91	156.29
<b>% of YTD</b>	17.83%	32.34%	0.00%	32.85%	15.12%	1.86%	100%
<b>FY 14 MGD</b>	27.70	50.94	-	50.98	24.53	2.87	157.03
<b>% of FY14</b>	17.64%	32.44%	0.00%	32.47%	15.62%	1.83%	100%
<b>Fixed billed fy15</b>	\$22,878,205.29	\$42,072,476.45	\$ -	\$ 42,106,959.46	\$20,258,424.77	\$2,368,059.13	\$ 129,684,125.10
<b>Actual fixed based on % of ytd</b>	\$23,128,846.43	\$41,934,666.90	\$ -	\$ 42,602,189.51	\$19,605,829.98	\$2,412,592.29	\$ 129,684,125.10
<b>Potential True-up</b>	\$ 250,641.13	\$ (137,809.56)	\$ -	\$ 495,230.05	\$ (652,594.79)	\$ 44,533.16	\$ (0)



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**Fiscal Year 2016 Budget Development Schedule:**

December 19, 2014	Budget packets distributed internally, meeting with Officers and Sr. Managers for “Fiscal Year 2016 Budget Kickoff.”
January 16, 2015	Fiscal year 2016 budget submissions due from departments to finance at 5:00 p.m.
February 1, 2015	Member Governments will supply Tampa Bay Water with an updated Annual Report, in the form provided in Exhibit K of the Amended and Restated Interlocal Agreement, setting forth the next five fiscal years of projected water service demand from their service area.
February 2, 2015	Request to Member Governments for any project changes since the December request.
February 6, 2015	Preliminary draft of fiscal year 2016 budget distributed internally for review and comments by all departments and General Counsel.
February 9, 2015	Finance meets with General Counsel to assess any additional legal needs or requirements.
February 10-13, 2015	Finance meets with Officers and Sr. Managers to review department 2016 budget requests.
February 23, 2015	Redistribute preliminary draft fiscal year 2016 budget with changes resulting from February meetings.
February 25, 2015	General Manager meeting with Officers and General Counsel to review program plans and outstanding issues.
March 4, 2015	Draft of budget document prepared for internal management review.
3 <sup>rd</sup> Week March, 2015	First bound copy of Proposed Fiscal Year 2016 Budget including annual estimate distributed to staff, Member Governments, and Board.
Mar. 23–31, 2015	Individual meetings with Member Governments to discuss proposed fiscal year 2016 budget.
April 15, 2015	Tampa Bay Water contractual annual estimate due (will have been distributed week of March 16th).
April 20, 2015	Board workshop, Tampa Bay Water Board sets preliminary fiscal year 2016 budget and schedules a public hearing for final budget approval on June 15, 2016.

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April 20, 2015	Preliminary presentation to Board of proposed Capital Improvement Program.
June 15, 2015	Public Hearing and Final Fiscal Year 2016 Budget approved by Board.
October 1, 2015	Uniform Rate for fiscal year 2016 implemented.
October 15, 2015	Fiscal year 2015 post closing adjustment and reconciliation of fixed component to annual estimate distributed to members.
November 15, 2015	Request budget changes from staff and members for the coming year.
December 1, 2015	Receive comments and finalize changes for budget format.

**Fiscal Year 2017 Budget Development Schedule:**

December 18, 2015	Budget packets distributed internally, meeting with Officers and Sr. Managers for “Fiscal Year 2017 Budget Kickoff.”
January 15, 2016	Fiscal year 2017 budget submissions due from departments to finance at 5:00 p.m.
February 1, 2016	Member Governments will supply Tampa Bay Water with an updated Annual Report, in the form provided in Exhibit K of the Amended and Restated Interlocal Agreement, setting forth the next five fiscal years of projected water service demand from their service area.
February 1, 2016	Request to Member Governments for any project changes since the December request.
February 5, 2016	Preliminary draft of fiscal year 2017 budget distributed internally for review and comments by all departments and General Counsel.
February 12, 2016	Finance meets with General Counsel to assess any additional legal needs or requirements.
February 15-19, 2016	Finance meets with Officers and Sr. Managers to review department 2017 budget requests.
February 24, 2016	Redistribute preliminary draft fiscal year 2017 budget with changes resulting from February meetings.
February 26, 2016	General Manager meeting with Officers and General Counsel to review program plans and outstanding issues.
March 2, 2015	Draft of budget document prepared for internal management review.

**Tampa Bay Water – 2016 Annual Budget  
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3 <sup>rd</sup> Week March, 2016	First bound copy of Proposed Fiscal Year 2017 Budget including annual estimate distributed to staff, Member Governments, and Board.
Mar. 23–31, 2016	Individual meetings with Member Governments to discuss proposed fiscal year 2016 budget.
April 15, 2016	Tampa Bay Water contractual annual estimate due (will have been distributed 3 <sup>RD</sup> week of March).
April 18, 2016	Board workshop, Tampa Bay Water Board sets preliminary fiscal year 2017 budget and schedules a public hearing for final budget approval on June 20, 2016.
April 18, 2016	Preliminary presentation to Board of proposed Capital Improvement Program.
June 20, 2016	Public Hearing and Final Fiscal Year 2017 Budget approved by Board.

## Glossary

Fiscal Year 2016

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The Glossary includes an alphabetical list of terms used in the budget document and defined by the Amended and Restated Interlocal Agreement, the Master Water Supply Contract, and/or the Master Bond Resolution.

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**Tampa Bay Water – 2016 Annual Budget**  
**Glossary**

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**Definitions**

The following definitions were derived from the Interlocal Agreement and the Master Water Supply Contract. Unless otherwise specifically set forth, the following words and phrases used in the 2016 Budget document shall have the following meanings:

**“Annual Estimate”** means the estimate of Tampa Bay Water Costs for a Fiscal Year, including the estimated amount thereof to be payable by each Member Government, and submitted to each Member Government on an annual basis, as required by Section 13 of the Master Water Supply Contract. The Annual Estimate shall be based upon Tampa Bay Water’s proposed annual budget and estimated rate and shall consider the Annual Reports in determining the estimated amounts to be payable by each Member Government. (Is equivalent to Net Annual Revenue Requirement for establishing the Uniform Rate).

**“Annual Report”** means the report setting forth the next five (5) Fiscal Years of anticipated Water Service within the Water Service Areas for each of the Member Governments to be prepared by each such Member Government and submitted to Tampa Bay Water as required by Section 12 of the Master Water Supply Contract.

**“Actual Direct Cost”** means with respect to Water Treatment, the total capital and operating cost of providing such treatment, excluding any indirect cost.

**“Allocated Overhead”** means that portion of the overhead that is allocated to the Water Supply Facility by dividing the estimated quantity of Quality Water to be produced at that facility by the total estimate of Quality Water to be produced by all facilities.

**“Bond Coverage Costs”** means the costs of providing the coverage requirements established by the Financing Documents.

**“Capital Improvement Charge”** means the costs identified by Tampa Bay Water for planning, designing, acquiring and constructing capital improvements to the System; provided such costs are not payable from proceeds of the Obligations (other than costs which are to be reimbursed from such proceeds) or from moneys received in relation to the Renewal and Replacement Charges.

**“Debt Service Charges”** means the principal, redemption premium, if any, and interest coming due on the Obligations and any recurring costs and expenses relating to the Obligations, including, but not limited to, paying agent, registrar and escrow agent fees, credit enhancement fees and other charges, but only to the extent such costs and expenses are not otherwise reflected in Operation, Maintenance and Administrative Costs.

**“Environmental Permit”** means all permits, licenses, or other third-party approvals necessary for the acquisition, construction or operation of a Tampa Bay Water Supply Facility, including but not limited to Primary Environmental Permits.

**“Financing Documents”** means any resolution or resolutions of Tampa Bay Water, as well as any indenture of trust, trust agreement or similar document relating to the issuance or security of the Obligations.

**Tampa Bay Water – 2016 Annual Budget**  
**Glossary**

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**“Fiscal Year”** means a twelve (12) month period which commences on October 1 of each year and ends on the next succeeding September 30<sup>th</sup> or such other period as may be prescribed by law as the fiscal year for Tampa Bay Water.

**“Fixed Costs”** means all costs and expenses incurred by Tampa Bay Water for the operation, maintenance, management, security, development, and financing of the System other than Variable Costs.

**“Fund Balance”** means an amount of money equal to the unencumbered moneys on deposit in the Utility Reserve Fund as of September 30 of the immediately preceding Fiscal Year. Moneys shall be considered unencumbered to the extent such moneys may be used for purposes relating to the System.

**“Government Grant”**, when used with respect to the System, means any sum of money heretofore or hereafter received by Tampa Bay Water from the United States of America or any agency thereof or from the State of Florida or any agency or political subdivision thereof as or on account of a grant or contribution, not repayable by Tampa Bay Water, for or with respect to the construction, acquisition or other development of an addition, extension or improvement to any part of the System or any costs of any such construction, acquisition or development. Government Grant shall not include any grants or contributions received by Tampa Bay Water for purposes of (1) funding Operating Expenses or (2) paying debt service on obligations of Tampa Bay Water that are payable in whole or in part from moneys received by Tampa Bay Water from the Southwest Florida Water Management District pursuant to the Northern Tampa Bay New Water Supply and Ground Water Withdrawal Reduction Agreement or any funding agreements related thereto. Any grants or contributions described in the preceding sentences shall be considered “Gross Revenues”.

**“Gross Revenues”** means all income and moneys received by Tampa Bay Water from the rates, fees, rentals, charges and other income to be made and collected by Tampa Bay Water for the use of the products, services and facilities to be provided by the System, or otherwise received by Tampa Bay Water or accruing to Tampa Bay Water in the management and operation of the System, calculated in accordance with generally accepted accounting principles applicable to public utility systems similar to the System, including without limiting the generality of the foregoing (1) moneys deposited from the Rate Stabilization Fund Account into the Revenue Account in accordance with the terms hereof, provided any moneys transferred from the Rate Stabilization Account into the Revenue Account within 90 days following the end of a Fiscal Year may be designated by Tampa Bay Water as Gross Revenues, and (3) Investment Earnings. “Gross Revenues” shall include all moneys received by Tampa Bay Water pursuant to the terms of the Master Water Supply Contract. “Gross Revenues” shall not include (A) Government Grants, to the extent prohibited or restricted as to its use by the terms of Government Grant, (B) proceeds of Bonds or other Tampa Bay Water debt, (C) moneys deposited to the Rate Stabilization Account from the Utility Reserve Fund, including any moneys transferred from the Utility Reserve Fund to the Rate Stabilization Account within 90 days following the end of a Fiscal Year which Tampa Bay Water determines not to be Gross Revenues of such Fiscal Year, and (D) any moneys received by Tampa Bay Water as part of True-Up. Gross Revenues may include other revenues related to the System which are not enumerated in the definition of “Gross Revenues” if and to the extent the same shall be approved for inclusion by Tampa Bay Water of the Bonds (provided all Bonds are insured as to payment of principal and interest at the time of such inclusion).

**Tampa Bay Water – 2016 Annual Budget**  
**Glossary**

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**“Net Revenues”** means Gross Revenues less Operating Expenses.

**“Obligations”** means a series of bonds or other evidence of indebtedness including but not limited to, notes, commercial paper, capital leases or any other obligations of Tampa Bay Water heretofore or hereafter issued or incurred.

**“Operating Reserve Fund”** means those funds, which are deemed by Tampa Bay Water as necessary to meet any cash flow and revenue collection shortfalls due to inaccuracies in the Annual Reports or Annual Estimates or due to the requirements of the Financing Documents. The amount of Operating Reserve Fund shall be established by Tampa Bay Water policy; provided such amount should not exceed an amount equal to two times the monthly average Variable Costs as provided in Tampa Bay Water’s preliminary budget.

**“Operation, Maintenance and Administrative Costs”** (also referred to as **Operating Expenses**) means any and all costs incurred by Tampa Bay Water in operating, maintaining and administering the System, including, but not limited to, the general administrative and legal costs of Tampa Bay Water related to operation, maintenance, management, security and development of the System; costs associated with tools, equipment, vehicles, supplies, materials, services and support for the operation, maintenance, management, security and development of the System; any costs of litigation or a legal judgment against Tampa Bay Water; costs relating to Water conservation and public education activities; costs of purchasing any Water; development expenses relating to expansion of the System; all costs incurred in planning or applying for, obtaining, maintaining and defending Environmental Permits which shall not be paid from the Capital Improvement Charge; accounting, legal and engineering expenses; ordinary and current rentals of equipment or other property; refunds of moneys lawfully due to others; pension, retirement, health and hospitalization funds; payments in lieu of taxes and facility impact fees; moneys to be deposited to a rate stabilization fund; and fees for management of the System or any portion thereof.

**“Overhead”** means the administrative and general expenses of Tampa Bay Water that are not directly attributable to ownership of any specific Water Supply Facility, as established in the approved budget.

**“Production Failure”** means (1) the occurrence of a Shortfall, provided however, that a Shortfall that results from a mechanical, equipment or other facility failure shall not constitute a “Production Failure,” or (2) following December 31, 2002, the actual delivery by the Authority to the Member Governments during any twelve-month period of Quality Water that exceeds 94 percent of the aggregate permitted capacity of the Authority’s production facilities on an annual basis, provided however, that if the Authority has received a Primary Environmental Permit for additional production facilities and the Authority has entered into a contract for final design and has bid construction of the facilities, the additional production quantity specified in the Primary Environmental Permit shall be added to the actual production capacity for purposes of determining if a “Production Failure” has occurred.

**“Project Cost”** means all expenses associated with the acquisition, construction, installation, reconstruction, renewal or replacement of Water Supply Facilities, including without limitation: (1) land and interests therein, property rights, and easements of any nature whatsoever; (2) physical construction, reconstruction, renewal, replacement or completion; (3) acquisition and installation of



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machinery, equipment and other tangible personal property; (4) planning, architectural, engineering, surveying, legal, environmental and other consultant services; (5) fees and expenses associated with the issuance of Obligations, including but not limited to bond counsel, disclosure counsel, financial advisor, underwriters' discount, rating agencies, bond insurance, credit or liquidity facilities, and printing the Obligations and supporting documentation; (6) interest accruing on the Obligations for such period of time as Tampa Bay Water deems appropriate; (7) the debt service reserve fund or account, if any, established for the Obligations; and (8) all other expenses that are properly attributable thereto under generally accepted accounting principles, including reimbursement to Tampa Bay Water for any moneys advanced for such purposes and interest on any interfund loan for such purposes.

**“Quality Water”** means Water which (1) meets State and federal drinking water regulations and standards as defined in Rule 62-550, Florida Administrative Code, as it may be amended or superseded from time to time, including regulations pertaining to surface water or groundwater under the direct influence of surface waters, but excluding regulations pertaining to disinfection and corrosivity, and (2) would not cause a particular Member Government utility to adopt new treatment techniques beyond modified chemical dosages and/or optimization of existing unit processes to meet a moderately altered source of Water. Except as otherwise provided in the Master Water Supply Agreement, the provisions of this definition are not intended as permission for a Member Government to reject the type of Quality Water to be provided by Tampa Bay Water to such Member Government; provided, however, Tampa Bay Water shall pay for any additional treatment costs required to meet the standards for Quality Water as described in the Master Water Supply Agreement.

**“Renewal and Replacement Charges”** means those certain charges to be deposited to any renewal and replacement fund or account established pursuant to the Financing Documents.

**“Reserve Account Requirement”** shall mean, as of any date of calculation for the Reserve Account, an amount equal to the lesser of (1) Maximum Annual Debt Service for all Outstanding Bonds, (2) 125% of the average Annual Debt Service for all Outstanding Bonds, or (3) the maximum amount allowed to be funded from proceeds of tax-exempt obligations and invested at an unrestricted yield pursuant to the Code; provided, however, the Issuer may establish by Supplemental Resolution a different Reserve Account Requirement for a subaccount of the Reserve Account which secures a Series of Bonds pursuant to Section 4.05(B)(4) hereof. In computing the Reserve Account Requirement in respect of a series of Bonds that constitutes Variable Rate Bonds, the interest rate on such Bonds shall be assumed to be (A) if such Variable Rate Bonds have been Outstanding for at least 24 months prior to the date of calculation, the highest average interest rate borne by such Variable Rate Bonds for any 30-day period, and (B) if such Variable Rate Bonds have not been Outstanding for at least 24 months prior to the date of calculation, the Bond Buyer Revenue Bond Index most recently published prior to the time of calculation. The time of calculation for Variable Rate Bonds shall be each March 1. (Resolution 98-07TBW, Section 1.01

**“System”** means Tampa Bay Water’s water production, transmission and treatment facilities, as they currently exist and as they may be modified or expanded in the future from time to time, which are owned, leased, licensed, operated and/or used by Tampa Bay Water to provide Water.

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**“Tampa Bay Water Costs”** shall mean Bond Coverage Costs, Capital Improvement Charges, Debt Service Charges, Operation, Maintenance and Administrative Costs, Operating Reserve Funds and Renewal and Replacement Charges.

**“Variable Costs”** means all costs and expenses of Tampa Bay Water for the operation, maintenance and management of the System that change in direct proportion to changes in the volume of Water produced by Tampa Bay Water, including, but not limited to, power, chemical and Water purchases.

**“Water”** means Quality Water and any other water to be used by a Member Government in its public water supply system.

**“Water Supply Facilities”** means Water production, treatment and/or transmission facilities and related real property. The term “Water Supply Facilities” does not include facilities for local distribution.

**“Water Service”** means the provision of Water as required in the Interlocal Agreement to any and all of the Member Governments at the locations described in Exhibit C of the Master Water Supply Contract and provision of Water by the Member Governments to their customers.

**“Water Service Areas”** means, collectively, the Hillsborough Water Service Area, the New Port Richey Water Service Area, the Pasco Water Service Area, the Pinellas Water Service Area, the St. Petersburg Water Service Area and the Tampa Water Service Area.

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**Acronyms**

**BEBR** – Bureau of Economic and Business Research

**BUDW** – Brandon Urban Dispersed Wells

**CBIR** – Community Budget Issuance Request

**CCA** – Construction Completion Agreement

**CFS** – Cubic Feet per Second

**CIF** – Capital Improvement Fund

**CIP** – Capital Improvement Program

**CMMS** – Computerized Maintenance Management System

**CWUP** – Consolidated Water Use Permit

**DBP** – Disinfection By-Product

**DE** – Diatomaceous Earth

**FAQ** – Frequently Asked Questions

**FASB** – Financial Accounting Standards Board

**FDEP** – Florida Department of Environmental Protection

**FGIC** – Financial Guaranty Insurance Company

**FTE** – Full Time Equivalent

**GAAP** – Generally Accepted Accounting Principles

**GASB** - Governmental Accounting Standards Board (GASB)

**GFOA** – Government Finance Officers Association

**H<sub>2</sub>S** – Hydrogen Sulfide

**IT** – Information Technology

**IW** – Injection Well

**MCC** – Motor Control Center

**MGD** – million gallons per day

**NOAA** – National Oceanic and Atmospheric Administration

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**NPDES** – National Pollutant Discharge Elimination System

**NWH** – Northwest Hillsborough

**O&M** – Operation and Maintenance

**OM&M** – Operate, Manage & Maintain

**OROP** – Optimized Regional Operational Plan

**POC** – Point of Connection

**PWS** – Public Water Supply

**R&R** – Renewal and Replacement

**SCADA** – Supervisory Control and Data Acquisition

**SCHIP** – South-Central Hillsborough Infrastructure Project

**SIPC** – Securities Investor Protection Corporation

**SWFWMD** – Southwest Florida Water Management District

**SWTP** – Surface Water Treatment Plant

**TBC** – Tampa Bypass Canal

**USEPA** – United States Environmental Protection Agency

**USGS** – United States Geological Survey

**VFD** – Variable Frequency Drive

**VOC** – Volatile Organic Compounds

**WTP** – Water Treatment Plant



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